

GC TO LEAVE A COPY OF AS-BUILT DRAWINGS IN MANAGER'S OFFICE AT TURN OVER. SUBMITTAL SCHEDULE

GC TO LEAVE A COPY OF AS-BUILT DRAWINGS IN MANAGER'S OFFICE AT TURN OVER.

STATUS	ITEM	SPECIFICATION	TIMING
DIGITAL SAMPLES		SEND (1) PHYSICAL COPY TO ARCHITECT AND SAG PM	
SHOP DRAWINGS AND	SPECIFICATIONS	EMAIL PDF TO ARCHITECT AND SAG PM	
ARCHITECTURAL			
	CANOPY SHOP DRAWINGS		COORDINATE
	STOREFRONT FIXED WINDOWS (if not installing specified window per drawing	5)	SUBMIT WITH
STRUCTURAL			
	STEEL PACKAGE		SUBMIT WITH
	TRUSSES		SUBMIT WITH
	CONCRETE FOUNDATION AND REBAR		SUBMIT WITH
MEP			
	ELECTRICAL SWITCHGEAR/PANELS		SUBMIT WITH
	HVAC EQUIPMENT (RTUs and Controls)		SUBMIT WITH
-	LIGHT FIXTURES (including Site Lighting)		SUBMIT WITH
MISCELLANEOUS			
WISCELLANEOUS	DOOR HARDWARE		SUBMIT WITH
MOCKUPS		COORDINATE WITH PM	
FINISHES			
	MOCKUP AREA OF EXTERIOR FINISHES FOR SAG/PM APPROVAL	SITE/AREA OF MOCKUP TO BE DETERMINE BY SAG PM	PRIOR TO PRO
ALL SUBMITTALS	ARE TO BE CLEARLY MARKED TO INCLUDE THE PROJECT NA	ME. GENERAL CONTRACTOR NAME AND SUBCON	TRACTOR INFC
	ERENCE THE MATERIAL CALLOUT FROM THE FINISH SCHEDU		
	W AND SIGN SUBMITTALS PRIOR TO SENDING TO ARCHITECT/ENGINEER FOR R		

1 & IPC TABLE	E 403.1)
UIRED:	PROVIDED:
25	1 ²
25	1 ²
40	1 ²
40	1 ²
100	0*
	1

		REQUIRED APPROVALS		
	REVIEW/SUBMIT	APPROVE	COORDINATE	
	GC	ARCHITECT	SAG PM	
TE WITH LEAD TIME AND APPROVAL TIME THIN 1 WEEK OF CONTRACT AWARD	X	X	X	
THIN 1 WEEK OF CONTRACT AWARD	x	х		
THIN 1 WEEK OF CONTRACT AWARD THIN 1 WEEK OF CONTRACT AWARD	X	X X	X	
THIN 1 WEEK OF CONTRACT AWARD	x	x	x	
THIN 1 WEEK OF CONTRACT AWARD THIN 1 WEEK OF CONTRACT AWARD	X X	X X	X X	
THIN 1 WEEK OF CONTRACT AWARD	x	x	x	
ROCEEDING WITH INSTALLATION			x	

SITE ANALYSIS & DATA ZONING: SITE AREA: C4 .7 ACRES MAX BUILDING HEIGHT: 20' - 2" FT CONSTRUCTION TYPE: V-B OCCUPANCY TYPE: BUSINESS 'B' FIRE SPRINKLER: NOT REQUIRED FIRE ALARM: NOT REQUIRED BUILDING AREA: 1000 SQFT AWNING AREA: 80 SQFT DRIVE THRU CANOPY AREA: 60 SQFT TOTAL COVERED AREA: 1140 SQFT PROPOSED LOT COVERAGE: 30.7% TOTAL PARKING: BUSINESS / RESTAURANT (14 SPACE/ 1000 SQFT*) = 14 14 SPACES *EXCLUDING COOLER & RESTROOMS 1 SPACES

ACCESSIBLE SPACES: REQ: 1 SPACE **NOTE:** THERE IS NO OUTDOOR / INDOOR DINING AREA AVAILABLE AT THIS FACILITY

PROJECT DESCRIPTION

NEW CONSTRUCTION OF A DRIVE-THRU ONLY RESTAURANT (NO DINING SEATING)

BUILDING DATA		CALCULATED
OCCUPANT LOAD BUSINESS AREAS (GROSS) TOTAL OCCUPANT LOAD = *PER IBC 2018 1004.5	(1000 SF / 150) =	<u> </u>
<u>USABLE AREA</u> FOOD PREP AREA (NET) OFFICE (NET) TOTAL USABLE AREA =	\wedge	530 SF 50 SF 580 SF
	$\gamma \gamma $	
DEFERRED SUBMIT	TALS	
IRRIGATION SIGNAGE SPRINKLER TRUSS DRAWINGS		

BID ALTERNATES ROOF: 5" RIGID INSULATION ABOVE DECK WITH MEMBRANE. ALTERNATE: SPRAY FOAM WITH BATT INSULATION BELOW DECK BETWEEN JOISTS.

BOTH VERSIONS SHOULD ACHIEVE THE SAME R-VALUE. **DECORATIVE SIGNAGE:** DECORATIVE CUTLERY ON FACADE ARE TO BE BID SEPERATE. REF: A201.

CLEARANCE BARS: FOR DRIVE THRU AND MOBILE PICK-UP ARE TO BE BID SEPERATE. REF: AS004

APPLICABLE CODES

BUILDING CODE:	2018 International Building Code
PLUMBING CODE:	2018 International Plumbing Code
MECHANICAL CODE:	2018 International Mechanical Code
ELECTRICAL CODE:	2017 National Electric Code
ENERGY CODE:	2018 International Energy Code
FIRE CODE:	2018 International Fire Code
FUEL GAS CODE:	2018 International Fuel Gas Code
ACCESSIBILITY CODE	2009 ICC/ANSI A117.1 Accessible and Usuable Buildings and Facilities
NOTE: ALL CODES WITH L	

NOTE: ALL CODES WITH LOCAL AMENDMENTS AND SPECIAL INSPECTIONS FLAME SPREAD CLASSIFICATION

PER IBC TABLE 805.13 INTERIOR WALL AND CEILING FINISH REQUIREMENTS BY OCCUPANCY NON SPRINKLERED

GROUP	EXIT ENCLOSURE AND PASSAGE WAY	CORRIDORS	ROOMS AND ENCLOSED SPACES
В	N/A	N/A	С
PER IBC SE	ECTION 803.1.2		

OWNER	PHOENIX, AZ 85008 CONTACT: ANDY HULSEY T: 410.371.1563 ANDY@SALADANDGO.COM
LANDLORD	AND GO CONCEPTS, LLC db 5555 EAST VAN BUREN STREET, SUIT PHOENIX, AZ 85008 CONTACT: ANDY HULSEY T: 410.371.1563 ANDY@SALADANDGO.COM
ARCHITECT	ARCHITECT ON RECORD STEVEN COX, ARCHITECT 513 MAIN STREET, STE 300 FORT WORTH, TX 76102 CONTACT: JOSEPH JEFFERY T: 817.820.0433
MECHANICAL	GEMINI ENGINEERING GROU 101 NIGHTLINGER LN MILSAP, TX 76066 EOR: CLAYTON LUCAS T: 817.901.5191
ELECTRICAL	GEMINI ENGINEERING GROU 101 NIGHTLINGER LN MILSAP, TX 76066 EOR: CLAYTON LUCAS T: 817.901.5191
STRUCTURAL	ELLISON GAGE & ASSOCIATE 5068 W PLANO PARKWAY SUITE 200 PLANO, TX 75093 EOR: BRIAN KIRK ELLISON, PE, SE T: 972.354.8858
CIVIL	KIMLEY-HORN ANDREW GRIBBLE KIMLEY-HORN & ASSOCIATES, INC. 805 PENNSYLVANIA AVE, SUITE 150 KANSAS CITY, MO 64105 (816) 652-2333 ANDREW.GRIBBLE@KIMLEY-HORN.C

CLASS A: FLAME SPREAD 0-25; SMOKE DEVELOPED 0-450 CLASS B: FLAME SPREAD 26-75; SMOKE DEVELOPED 0-450 CLASS C: FLAME SPREAD 76-200; SMOKE DEVELOPED 0-450

RELEASED FOR CONSTRUCTION s Noted on Plans Revie



<u>SALAD AND GO</u> 5555 EAST VAN BUREN STREET, SUITE 215 PHOENIX, AZ 85008



<u>ba SALAD AND GO</u> TE 215





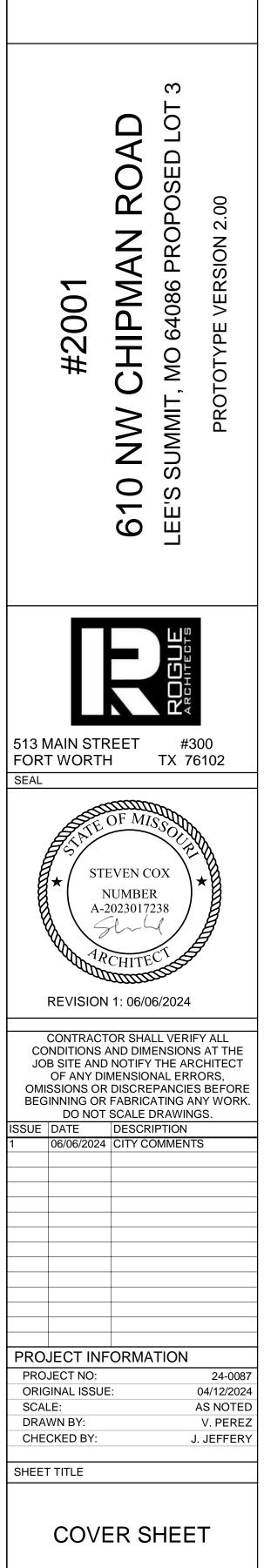




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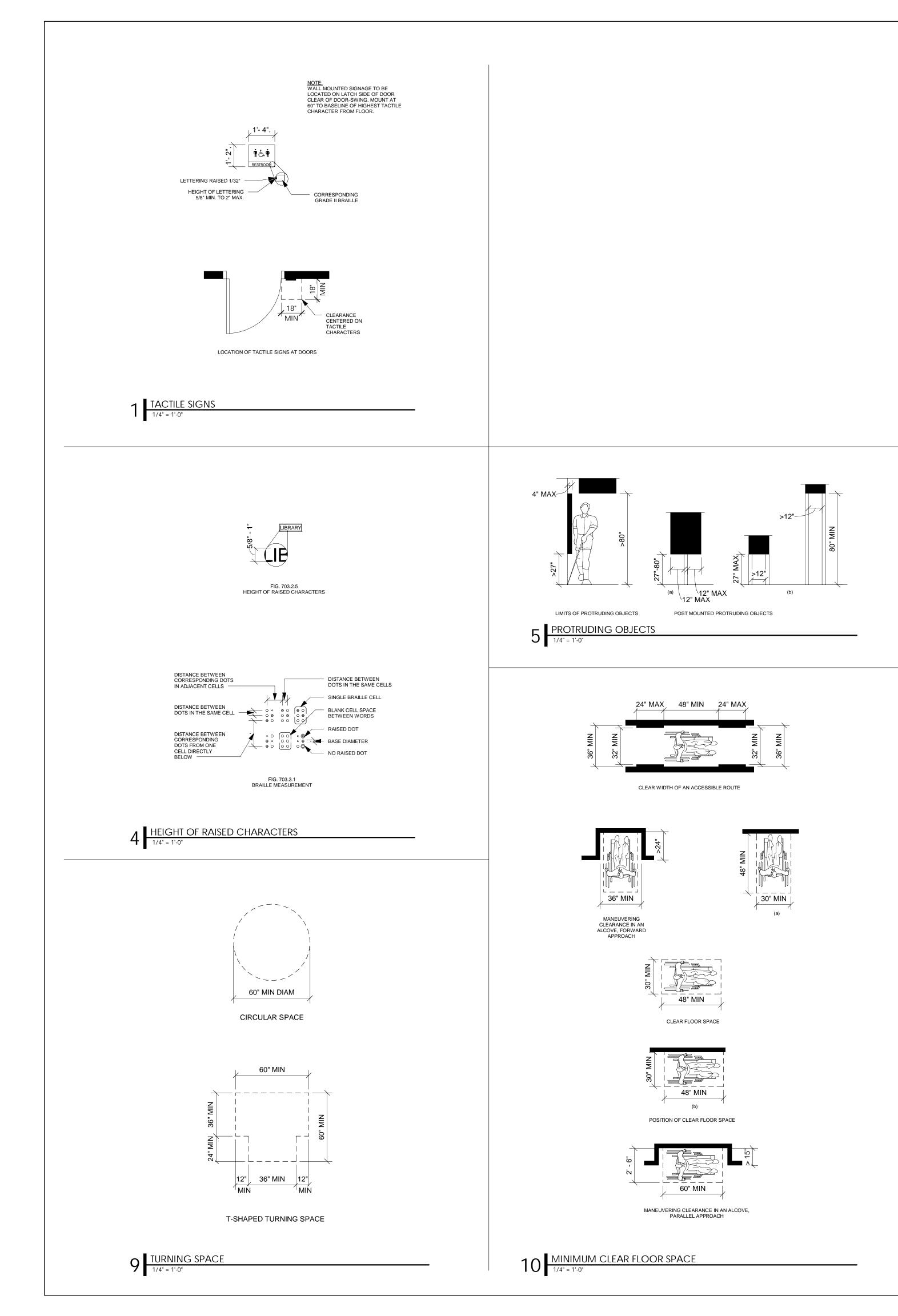


	DRAWING INDEX		RF	EVIS	SIO	N	
		F	1			•	
		PERMI					
SHEET	SHEET NAME	Ц	1	2	3	4	5
1 GENER	A1						
G001		•	•				
G002	ACCESSIBLITY DETAILS	•					
G003 G004	OCCUPANCY & LIFE SAFETY PLAN SYMBOL, LEGENDS, & GENERAL NOTES	•	٠	-	-		-
G004 G005	COMCHECK	•	-				
G006	RESPONSIBILITY MATRIX	•					
2 SITE							
AS001	ARCHITECTURAL SITE PLAN	•					
AS002	TRASH ENCLOSURE DETAILS	•					
AS003		•					-
AS004	SITE DETAILS	•					L
3 STRUCT	FURAL					-	
S001	GENERAL STRUCTURAL INFORMATION	•					
S002	GENERAL STRUCTURAL INFORMATION	•					-
S003 S004	TYPICAL DETAILS AND SCHEDULES TYPICAL DETAILS AND SCHEDULES	•			-		
S004	TYPICAL DETAILS AND SCHEDULES	•			-		
S101	FOUNDATION PLAN	•					
S201		•			\vdash		_
S301 S401	FOUNDATION DETAILS ROOF FRAMING DETAILS	•		-	-		-
S401	ROOF FRAMING DETAILS	•		-			
S501	FRAMING ELEVATIONS AND DETAILS	•					
4 4 5 6			_				_
4 ARCHIT A101	ECTURAL DIMENSION FLOOR PLANS	•					
A101 A111	FLOOR PLANS	•		-	-		
A121	REFLECTED CEILING PLAN	•					
A131		•	٠		-		_
A201 A301	EXTERIOR ELEVATIONS BUILDING SECTIONS	•	٠				
A301 A302	WALL SECTIONS	•					-
A303	WALL SECTIONS	•					
A400	INTERIOR ELEVATIONS (WALL SHEATHING)	•					
A401		•	٠				
A402 A501	INTERIOR ELEVATIONS (RESTROOM) PLAN DETAILS	•			-		-
A502	PLAN DETAILS	•					
A503	SECTION DETAILS	•					
A504	ROOF DETAILS	•					
A505 A506	ROOF LADDER DETAILS ELECTRIC PANEL DETAILS	•	•				-
A500 A611	INTERIOR PARTITION TYPES AND DETAILS	•					-
A621	EXTERIOR PARTITION TYPES	•					
A631	DOOR SCHEDULE	•	٠				
A641		•					ļ
A800 A801	SPECIFICATIONS SPECIFICATIONS	•					-
A802	SPECIFICATIONS	•					
A803	SPECIFICATIONS	•					
A804	SPECIFICATIONS	•					
A805 A806	SPECIFICATIONS SPECIFICATIONS	•		-	-		
A807	SPECIFICATIONS	•					
A808	SPECIFICATIONS	•					
Q101	EQUIPMENT PLAN	•	•				
5 PLUMBI	NG						
P101	PLUMBING LEGENDS AND NOTES	•	_				
P102		•					
P103 P104	GREASE/SANITARY WASTE PLAN DOMESTIC WATER PLAN	•	-	-	-		-
P104 P105	PLUMBING DETAILS	•	•	-	-		
P106	PLUMBING SPECIFICATIONS	•					
					-		
6 MECHA M101	NICAL MECHANICAL LEGENDS AND NOTES	-					
M101 M102	MECHANICAL LEGENDS AND NOTES	•		-	-		
M102	MECHANICAL FLOOR PLANS	•			L		
M104	MECHANICAL DETAILS	•					
M105 M106	MECHANICAL SPECIFICATIONS MECHANICAL ENERGY FORMS	•			-		
M107	MECHANICAL ENERGY FORMS	•		-	-		
	1		L	1	1	I	
7 ELECTR							
E101 E102	ELECTRICAL LEGEND & NOTES ELECTRICAL SPECIFICATIONS	•		-	-		-
E102 E103	LIGHTING FLOOR PLAN	•		-	\vdash		
E103	PHOTOMETRIC PLAN	•	•				
E105	POWER FLOOR PLAN	•					
E106		•			<u> </u>		<u> </u>
E107 E108	MECHANICAL POWER ROOF PLAN	•	1	-	-		
E108	ELECTRICAL SITE FLAN	•		-	-		
E110	ELECTRICAL ONE LINE DIAGRAM	•					
E111		•					
E112 E113	LIGHTING ENERGY FORMS	•					┣─
		•					

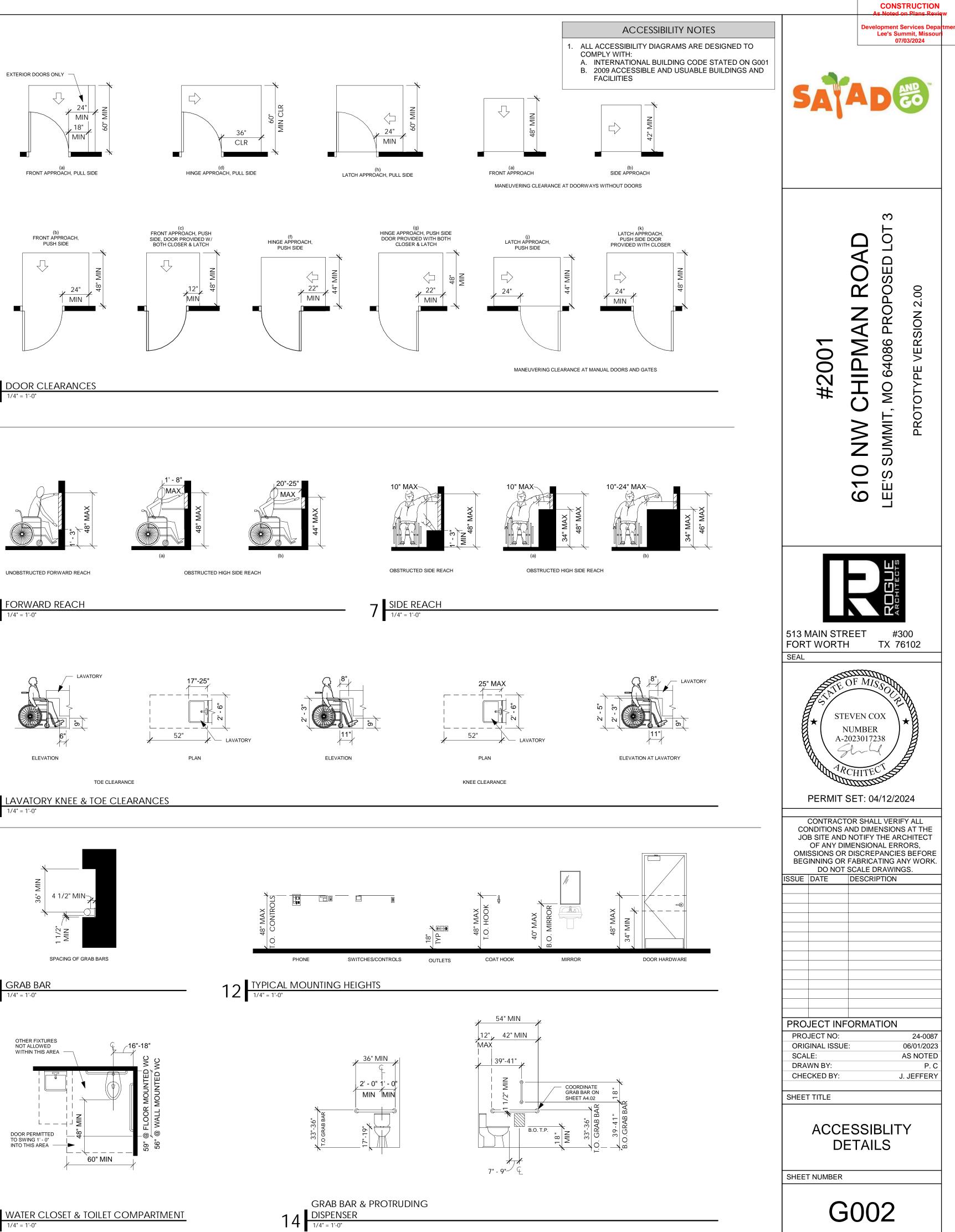


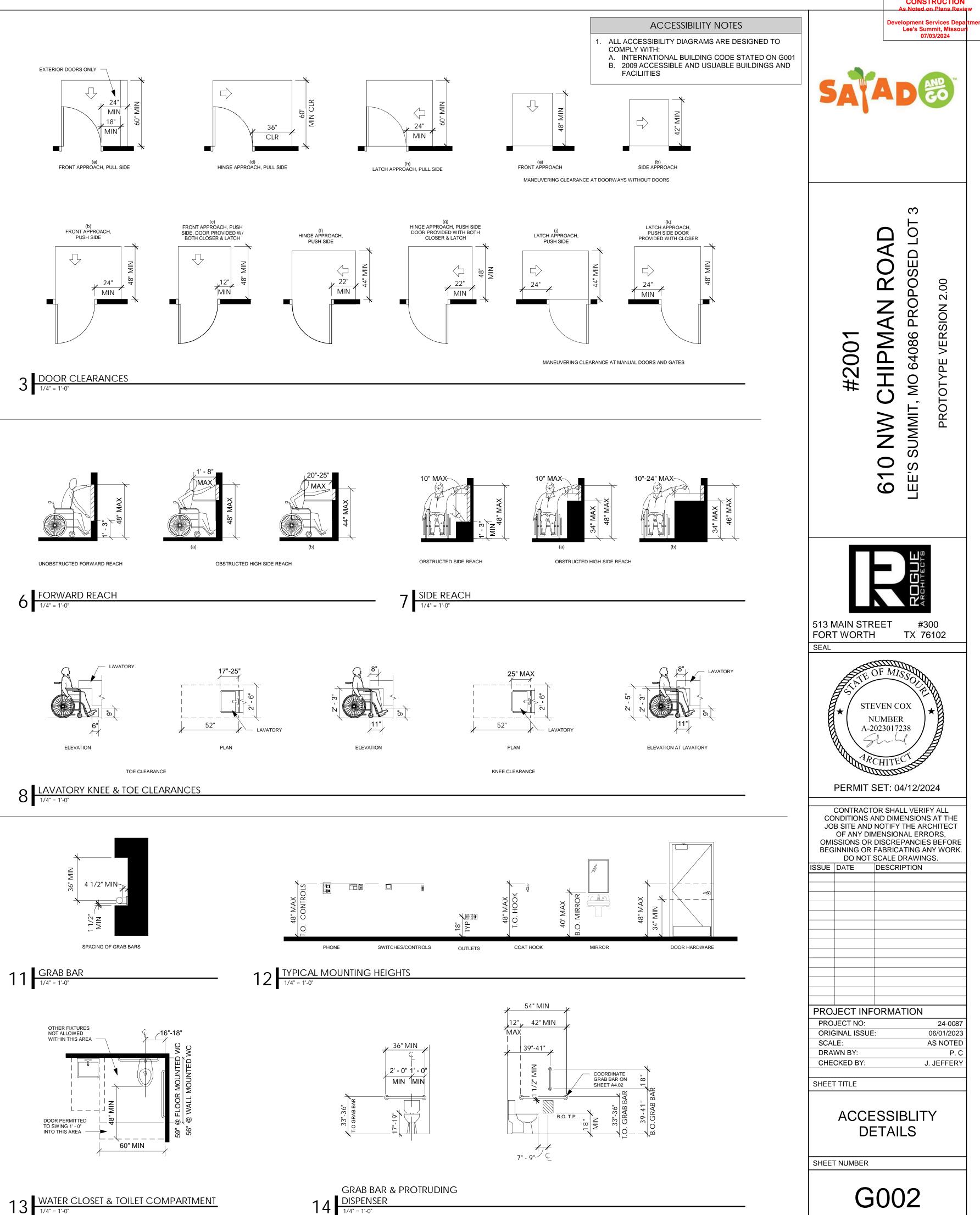
SHEET NUMBER



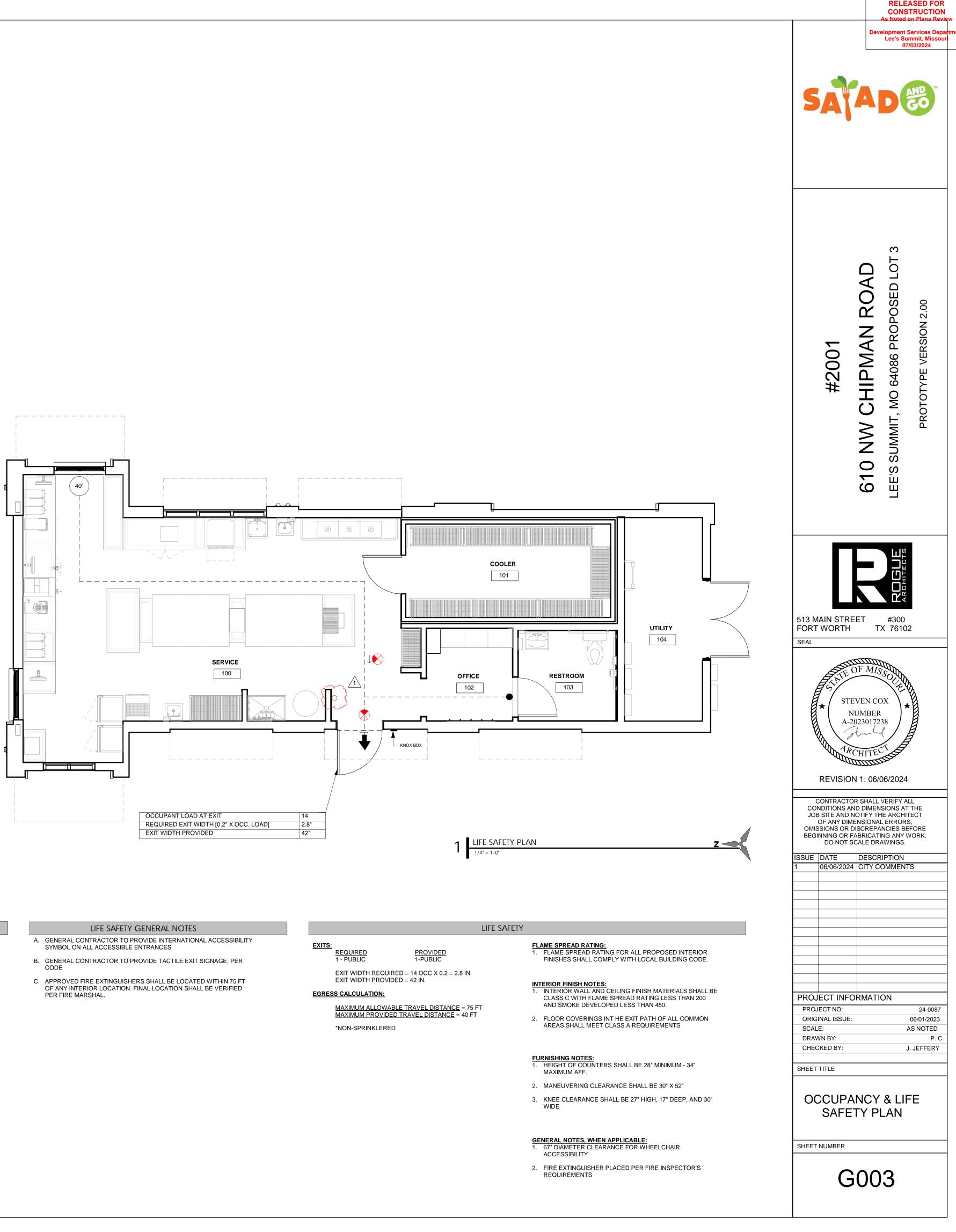








RELEASED FOR



LEGEND

(XX'

LENGTH OF PATH OF TRAVEL MINIMUM XX' CLEAR UNLESS NOTED OTHERWISE

EXIT, END POINT

EXIT LIGHT

DIRECTIONAL EMERGENCY LIGHT

FIRE EXTINGUISHER

RECESSED KNOX BOX

MATERIAL	S LEGEND	SYMBOLS LEGEND		
BRICK		SHEET NUMBER	BUILDING SECTION X A001 A001 SHEET NUMBER	
METAL PANEL		NORTH ARROW	WALL SECTION	
ARCHITECTURAL PANEL			A001 SHEET NUMBER	
CONCRETE		GRAPHIC SCALE	DETAIL SECTION TRAWING NUMBER A001 SHEET NUMBER	
DENSGLASS		0 8 16 32 64 SCALE IN FEET		
EARTH - BACKFILL		COLUMN GRID LINES	A001 SHEET NUMBER	
EARTH - COMPACTED SOIL		A COLUMN CENTERLINE	INTERIOR ELEVATION	
EIFS		SPOT ELEVATION	VERTICAL ELEVATION	
GRANULAR FILL		ELEV. +0'-0" ELEVATION TARGET	LEVEL # LEVEL NAME ELEV. +0'-0" ELEVATION	
GYP			DOOR TAG 101 DOOR NUMBER	
BATT, LOOSE FILL INSULATION				
RIGID INSULATION		MATCH LINE	WINDOW TAG	
PLYWOOD		BREAK LINE	WALL TYPE TAG	
STEEL		DRAWING TITLE	WALL TYPE DESIGNATION	
SAND, PLASTER, MORTAR, GROUT		DRAWING TITLE 1 DRAWING TITLE 1 SCALE: DRAWING SCALE	REVISION CLOUD REVISION NUMBER	
WOOD (ROUGH) BLOCKING		PLAN OR DETAIL DESIGNATION		
WOOD (ROUGH) CONTINUOUS		PLAN NOTE PLAN NOTE NUMBER	CSI KEYNOTE 00 00 00 PROJECT SPECIFICATION CSI SPECIFICATION SECTION	
		ROOM NAME & NUMBER ROOM NAME 101 ROOM NUMBER	DETAIL ENLARGEMENT DRAWING NUMBER A001 SHEET NUMBER	

ARCHITECTURAL ABBREVIATIONS



APPROX	AIR CONDITIONING ABOVE ACOUSTICAL CEILING TILE AMERICAN'S W/ DISABILITIES ACT ABOVE FINISH FLOOR ADJUSTABLE AIR HANDLING UNIT ALUMINUM APPROXIMATE ARCHITECTURAL ACOUSTICAL WALL TREATMENT
BD	BOARD
BITUM	BITUMINOUS
BLDG	BUILDING
BLKG	BLOCKING
BM	BEAM
BR	BRICK
BRG	BEARING
CBB	CEMENT BACKER BOARD
CFLG	COUNTER FLASHING
CJ	CONTROL JOINT
CLG	CENTER LINE
CLG HT	CEILING
CLR	CEILING HEIGHT
CMPST	CLEAR
CMU	COMPOSITE
CNTR	CONCRETE MASONRY UNIT
CO	COUNTER
COL	CASED OPENING
CONC	COLUMN
CONSTR	CONCRETE
CONT	CONSTRUCTION
CONT	CONTINUOUS
CPT	CARPET
CSK	COUNTERSUNK
CT	CERAMIC TILE
CTR	CENTER
DEG	DEGREES
DET	DETAIL
DIA	DIAMETER
DIM	DIMENSION
DISP	DISPENSER
DR	DOOR
DR OPNG	DOOR OPENING
DWG	DRAWING
EA	EACH
EIFS	EXTERIOR INSULATION FINISH SYSTEM
EJ	EXPANSION JOINT
ELEC	ELECTRICAL
EL	ELEVATION
ELEV	ELEVATOR
EMER	EMERGENCY
EQ	EQUAL
EQUIP	EQUIPMENT
ETR	EXISTING TO REMAIN
EXIST	EXISTING
EXH	EXHAUST
EXP	EXPOSED
EXT	EXTERIOR
FA FBO FC FD FE FEC FF EL FIN FIXT FLR FLUOR FDN FOC FOF FOM FOS FRT FT FT F.T. FTG FURG	FIRE ALARM FURNISHED BY OTHERS FIXTURE CONTRACTOR FLOOR DRAIN FIRE EXTINGUISHER FIRE EXTINGUISHER CABINET FINISH FLOOR ELEVATION FINISH FIXTURE FLOOR FLUORESCENT LIGHTING FOUNDATION FACE OF CONCRETE FACE OF FINISH FACE OF FINISH FACE OF STUD FIRE RETARDANT TREATED FOOT (FEET) FIRE TREATED FOOTING FURRING
GA	GAGE
GALV	GALVANIZED
GC	GENERAL CONTRACTOR
GFRC	GLASS-FIBER REINFORCED CONCRETE
GFRG	GLASS_FIBER REINFORCED GYPSUM
GL	GLASS or GLAZING
GR	GRADE
GWB	GYPSUM WALLBOARD
GYP	GYPSUM
H/C	HANDICAPPED
HC	HOLLOW CORE
HCWD	HOLLOW CORE WOOD DOOR
HDWD	HARDWOOD
HDWR	HARDWARE
HM	HOLLOW METAL
HMF	HOLLOW METAL FRAME
HORIZ	HORIZONTAL
HP	HIGH POINT OF ROOF/SLOPE
HT	HEIGHT
HVAC	HEATING, VENTILATION & COOLING
HW	HOT WATER

IBGC ID IN INCL INSUL INT JAN KPL L L/T LAV	INSTALLED BY GENERAL CONTRACTOR INSIDE DIAMETER INCH INCLUDED INSULATION INTERIOR JANITOR KICK PLATE LONG (LENGTH) LIGHT TRACK LAM LAMINATE LAVATORY	
LBS LF LH LCC	POUNDS LINEAR FOOT LEFT-HANDED LEAD COATED COPPER OWNER LOW POINT OF ROOF/SLOPE	
MAX MAHOG MDO MECH MEZZ MFR MIN MISC	MATERIAL MAXIMUM MAHOGANY MEDIUM DENSITY OVERLAY MECHANICAL MEZZANINE MANUFACTURER MINIMUM MISCELLANEOUS MASONRY OPENING MOP SERVICE BASIN MOUNTED METAL	
N NAT NIC NL NOM NTS	NORTH NATURAL NOT IN CONTRACT NIGHT LIGHT NOMINAL NOT TO SCALE	
OA OC OD OF/CI OF/OI OFI OPP	OVERALL ON CENTER OUTSIDE DIAMETER OWNER FURNISHED/ CONTRACTOR INSTALL OWNER FURNISHED/ OWNER INSTALL OWNER FURNISHED & INSTALL OPPOSITE	
P PLAM PLT PLWD PR PRHT PT PTN	PAINT PLASTIC LAMINATE PLUMBING PLATE PLYWOOD PAIR PARTIAL HEIGHT PRESSURE TREATED PARTITION	
QT RAD REC REQD REF RESIL REV RH RM RO RWD RWL	QUARRY TILE RISER RADIUS RECESSED REQUIRED REFERENCE RESILIENT REVISION RIGHT HAND ROOM ROUGH OPENING REDWOOD RAIN WATER LEADER	
SC SD SECT SF SHT SIM SIPS SND INS SPEC SSG SST STD STL STN STO SYS	SOLID CORE SMOKE DETECTOR SECTION SQUARE FOOT (FEET) SHEET SIMILAR STRUCTURAL INSULATED PANEL SOUND INSULATION SPECISQUARE STRATEGIC SOURCING GROUP STAINLESS STEEL STANDARD STEEL STAIN STONE SYSTEM	
T TBD T&G THK THR TOB TOC TOJ TOM TOS TOS TOS TOW TPD TPO TYP	TREAD TO BE DETERMINED TONGUE & GROOVE THICKNESS THRESHOLD TOP OF BEAM TOP OF CONCRETE TOP OF JOIST TOP OF MASONRY TOP OF SLAB TOP OF SLAB TOP OF STEEL TOP OF WALL TOILET PAPER DISPENSER THERMOPLASTIC POLYOLEFIN TYPICAL	
UC UNO	UNDERCUT UNLESS NOTED OTHERWISE	
VCT VERT VIF VP	VINYL COMPOSITION TILE VERTICAL VERIFY IN FIELD VENEER PLASTER	
W/ W/O WC WD WF WFAB WH WRB	WITH WITHOUT WALL ANCHOR WATER CLOSET WOOD WIDE FLANGE WALL FABRIC WATER HEATER WATER RESISTANT BARRIER	

1.	THE DRAWINGS WHICH COMPRISE WHOLE. INFORMATION INCLUDED OCCURS WITHIN THESE CONSTRUCT
	ANY WORK IS WITHIN THE SCOPE (
2.	CONTRACT. IMMEDIATELY UPON E UNLESS SPECIFICALLY NOTED OTH
3.	THE MANUFACTURERS' LATEST PU WHERE A DIMENSION IS SPECIFICA
э.	ARCHITECT IMMEDIATELY UPON CO
4.	CONSIDERED TO ESTABLISH A CON PERFORM WORK IN STRICT ACCOR
ч. 5.	WHERE REFERENCE IS MADE TO "E
6.	SECURITY, INTERCOM, AND FIRE A COORDINATE MOUNTING / INSTALL
0.	PROVIDED. PROVIDE HANGERS, SI
7.	CONTRACTOR SHALL PROVIDE ALL BE PROVIDED, THOUGH NOT DETA
8.	ALL CONSTRUCTION PENETRATION
	AND COUNTY FIRE MARSHAL REQU RESPONSIBLE FOR SOLICITING AN
9.	WHERE DISSIMILAR METALS WOUL
	ENSURE GALVANIC CORROSION OF STEEL, GALVANIZED STEEL, AND A
	ISOLATE THE METALS SHALL BE UT
10. 11.	DIMENSIONS INDICATED ARE TO S WORK SHALL INCLUDE ALL LABOR,
11.	PROPERLY WORKING AND FINISHE
12.	ALL CONTRACTORS SHALL VISIT TH THE CONTRACTOR AND HIS SUBCO
	CONSTRUCTION THAT MY BE REQU
13.	PRIOR TO PROCEEDING WITH ANY THE ADDITIONAL COST OR TIME OF
	(AN ESTIMATE OF THE WORST CAS
14.	THE OWNERS REPRESENTATIVE PI BUILDING SPRINKLER SYSTEMS SH
	HEADS SHALL BE APPROVED BY TH
15.	REMOVE ALL CONSTRUCTION DEB REMOVAL WORK WITH OWNER IN (
	SYSTEM IS UNDERGOING MODIFIC
16.	HEIGHTS OF ELECTRICAL, DATA, A PRIOR TO ROUGH-IN AND FABRICA
17.	DOWN LIGHTS, SPRINKLER HEADS,
18.	GC TO SEAL AROUND ALL VISIBLE I
<u>Ge</u>	<u>ENERAL ACC</u>
1.	ELECTRICAL AND SERVICE OUTLET
2. 3.	PARTITIONS ARE TO BE BUILT FULL PROVIDE CONTINUOUS ACOUSTIC
J.	BETWEEN THE RUNNER, FLOOR AN
4.	PROVIDE ACOUSTICAL CAULKING T SEALANT AT THE CONNECTION TO
5.	MULTIPLE LAYERS OF DRYWALL AF
6. 7.	PARTITIONS SHALL BE CUT AND SE ALL PENETRATIONS LESS THAN 1.5
1.	MAINTAINING A NOMINAL 1" GAP AF
8.	ALL GAPS AROUND PENETRATIONS REQUIREMENTS SHALL TAKE PREC

'S SHALL TAKE PRECEDENCE OVER ACOUSTICAL CONSIDERATIONS: 1" OR LESS GAP FILLED TIGHTLY WITH BATT INSULATION AND/OR FIRE SAFING. GAPS LARGER THAN 1" FILLED WITH HEAVY-DENSITY PUTTY SUCH AS NELSON FSP OR CLK SEALANT, J.M. CLIPPER "DUXSEAL", 3M "MOLDABLE PUTTY". PROVIDE AND INSTALL ALL DETAILS AND MATERIALS AS REQUIRED BY DRYWALL MANUFACTURER TO ACHIEVE LABORATORY SOUND TRANSMISSION CLASS (STC) RATINGS INDICATED.

GENERAL CEILING NOTES

CONTRACTOR TO COORDINATE MO
CONTRACTOR IS RESPONSIBLE FO
REFER TO FINISH PLANS FOR CEIL

COORDINATE	W/ WECH.,	LLLC., FL

GENERAL PARTITION NOTES

1.	RATED WALL ASSEMBLIES AND "SO
	AND/OR PERPENDICULAR WALLS.
2.	THE CONTRACTOR SHALL BEAR TH
	VARIES DUE TO DIFFERENT PARTI
	PARTITIONS OR CORNERS SUCH T
3.	PROVIDE 5/8" G.M.W.R. BOARD IN L
4.	ALL FIRE &/OR SMOKE BARRIER W
	(FLOOR, ROOF & WALLS). PROVID
	FLUTES ABOVE MET. WALL CHANN
5.	ALL FIRE &/OR SMOKE BARRIER W
	OTHER PARTITIONS). PROVIDE SE
6.	THE GYPSUM BOARD GAP AT THE
7.	NO GYP. BD. SHALL SPAN OVER 16
8.	ALL GYPSUM WALL BOARD SHALL
9.	PARTITION DESIGNATION TAG SHA
10.	UNLESS NOTED OTHERWISE, PAR
11.	ALL PARTITIONS SHALL BE CONST
12.	ALL PARTITIONS SHALL BE PARTIT
13.	ALL METAL STUDS INDICATED IN D
14.	METAL STUD CONTRACTOR SHALL
	CONTRACTOR SHALL BEAR THE R
	CONFIGURATIONS INDICATED. MI
	SHALL BE APPROPRIATE FOR THE
	SIZE, GAUGE AND CALCULATIONS
15.	SEE TYPICAL DETAILS FOR FRAMI
10.	SEE ITFIGAL DETAILS FOR FRAMIN

GENERAL FINISH NOTES

1.	PROVIDE ANODIZED ALUMINUM ST
2.	PROVIDE ALL FINISH ACCESSORY
3.	ALL PAINTED WALLS TO HAVE AN
4.	INTERIOR FINISHES SHALL BE AT I
	INSTALLED IN ROOMS / ENCLOSED

LEAST EQUAL TO (OR BETTER THAN) CLASS B WHERE INSTALLED IN CORRIDORS AND EXIT PASSAGEWAYS, AND CLASS C WHERE D SPACES. PROVIDE 3 PERCENT OVERAGE ON FINISH MATERIAL QUANTITIES AS ATTIC STOCK. COORDINATE STORAGE WITH OWNER PRIOR TO PROJECT COMPLETION.

REFER TO SPECIFICATIONS AND FINISH SCHEDULE FOR ADDITIONAL FINISH INFORMATION. G.C. TO PROVIDE TRANSITION STRIPS AND THRESHOLDS AS REQUIRED. ARCHITECT TO APPROVE. ALL FINISH LOCATIONS AND START/STOP POINTS TO BE REVIEWED BY ARCHITECT PRIOR TO INSTALLATION. USE LOW VOC ADHESIVE, FOLLOWING MANUFACTURERS RECOMMENDED PRODUCTS, FOR ALL CARPET AND LAMINATE FLOORING.

- USE LOW VOC PAINTS, AS SPECIFIED, THROUGHOUT, U.N.O. 10.
- ADD CAULKING JOINT TO ALL DISSIMILAR MATERIALS.

GENERAL ACCESSIBILITY NOTES

- TOLERANCES EITHER PLUS OR MINUS WILL BE ACCEPTED.
- https://www.tdlr.texas.gov/ab/abtas.htm

RELEASED FOR CONSTRUCTION s Noted on Plans Revie

nent Services De

Lee's Summit, Missou 07/03/2024

GENERAL NOTES

THIS SET OF CONSTRUCTION DOCUMENTS ARE ADDRESSED TO THE GENERAL CONTRACTOR AND ARE CONSIDERED TO BE ONE ON ONE SHEET SHALL BE AS BINDING AS IF INCLUDED ON ALL, REGARDLESS OF TRADE ASSIGNMENTS. WHERE A CONFLICT JCTION DOCUMENTS, THE MORE EXPENSIVE OR TIME CONSUMING REQUIREMENT SHALL GOVERN. ANY DOUBT AS TO WHETHER OF THE CONTRACT SHALL BE RESOLVED IN FAVOR OF AN INTERPRETATION THAT THE WORK IS WITHIN THE SCOPE OF THE DISCOVERY, NOTIFY THE ARCHITECT OF DOCUMENT CONFLICTS IN WRITING. HERWISE HEREIN INSTALL MATERIALS, EQUIPMENT, PRODUCTS, AND SYSTEMS FOR THIS PROJECT IN STRICT ACCORDANCE WITH

UBLISHED SPECIFICATIONS / RECOMMENDATIONS. ALLY NOTED WITH A "±" DESIGNATION, THE DIMENSION IS TO BE CONTROLLED BY FIELD VERIFIED CONDITIONS. NOTIFY THE CONFIRMATION OF THE ACTUAL DIMENSION. NO REFERENCE OR DESIGNATION WITHIN THESE DOCUMENTS SHALL BE

INSTRUCTION TOLERANCE. THE DIMENSIONS ARE PRECISE AS STATED. RDANCE WITH FEDERAL, STATE AND LOCAL CODES/ORDINANCES, AND OSHA REQUIREMENTS.

"BUILDING SYSTEMS", THIS SHALL INCLUDE MECHANICAL, ELECTRICAL, PLUMBING, HVAC, FIRE PROTECTION, TELEPHONE, ALARM / LIFE SAFETY COMPONENTS.

LATION OF LIGHTING FIXTURES, MECH. DIFFUSERS, SPRINKLER HEADS AND OTHER DEVICES WITH TYPE OF CEILINGS TO BE. SUPPORTS, SEISMIC STRUTS AND CLIPS, CUT-OUTS, TRIM RINGS, AND EDGE TRIM REQUIRED FOR A COMPLETE INSTALLATION. L MATERIAL AND LABOR REQUIRED TO PRODUCE A COMPLETED, FINISHED PROJECT. FAILURE TO INCLUDE ITEMS INDICATED TO AILED, SHALL NOT CONSTITUTE THE BASIS FOR A CHANGE ORDER. INS THROUGH FIRE RATED PARTITIONS SHALL BE FIRESTOPPED PER U.L. LISTED DETAILS COMPLYING WITH APPLICABLE CODES

UIREMENTS. CONTRACTOR SHALL SELECT, PROVIDE AND INSTALL SUCH FIRESTOPPING SYSTEMS / DETAILS AND SHALL BE ND OBTAINING THE NECESSARY APPROVAL(S) FROM THE AUTHORITIES HAVING JURISDICTION. LD COME IN CONTACT WITH ONE ANOTHER; G.C. SHALL UTILIZE NEOPRENE GASKETS AND / OR WASHERS AS APPROPRIATE TO OF THE METALS OR FASTENERS IS AVOIDED. SUCH DISSIMILAR METALS INCLUDE BUT ARE NOT LIMITED TO COATED COPPER, ALUMINUM. AT SUCH CONNECTIONS REQUIRING FASTENERS, STAINLESS STEEL FASTENERS WITH NEOPRENE WASHERS TO

ITII I7FD STUD FACE, OR COLUMN CENTER LINES, UNLESS NOTED OTHERWISE. R, ASSEMBLIES, AND FINISH WORK INCLUDING ALL PARTS AND MATERIALS NECESSARY TO MAKE A COMPLETE, IN-PLACE,

ED INSTALLATION. THE PROJECT TO FAMILIARIZE THEMSELVES WITH SITE CONDITIONS PRIOR TO BIDDING OR CONSTRUCTION. BY SUBMITTING A BID, CONTRACTORS ARE CONFIRMING THAT THEY HAVE VISITED THE SITE AND HAVE INCLUDED IN THEIR BID ANY ADDITIONAL ITEMS OF UIRED DUE TO EXISTING SITE CONDITIONS.

Y WORK THAT MAY RESULT IN ADDITIONAL COST OR ADDITIONAL TIME TO THE PROJECT, THE CONTRACTOR SHALL DETERMINE DR, IF THE EXACT COSTS FOR TIME CANNOT BE DETERMINED, THE CONTRACTOR SHALL MAKE HIS MOST REASONABLE ESTIMATE SE) AND SUBMIT THE ADDITIONS TO THE OWNERS REPRESENTATIVE FOR APPROVAL. SHOULD THE CONTRACTOR FAIL TO ADVISE PRIOR TO PROCEEDING WITH THE WORK, ADDITIONAL COST OR TIME SHALL NOT BE APPROVED. HALL COMPLY WITH ALL APPLICABLE CODES, NFPA 13, AND THE WTC FIRE PROTECTION ENGINEER. EXACT LAYOUT OF SPRINKLER

THE ARCHITECT PRIOR TO PROCEEDING WITH WORK. BRIS AS REQUIRED TO MAINTAIN A CLEAN ENVIRONMENT AND TO PREVENT THE POSSIBILITY OF ACCIDENT OR FIRE. COORDINATE OCCUPIED SPACES. MAINTAIN WORKING FIRE EXTINGUISHERS IN THE PROJECT AREA DURING CONSTRUCTION WHEN SPRINKLER

CATIONS. AND COMMUNICATION OUTLETS WHEN SURROUNDED BY OR ABUTTING MILLWORK SHALL BE CONFIRMED WITH THE ARCHITECT ATION.

S, SMOKE DETECTORS AND EXIT SIGNS SHALL BE LOCATED IN THE CENTER OF THE CEILING TILE, UNLESS OTHERWISE NOTED. PIPES

OUSTICAL NOTES

TS FOR ADJACENT ROOMS ARE TO BE POSITIONED A MINIMUM OF 2 FEET APART AND IN SEPARATE STUD CAVITIES. LL HEIGHT FROM BUILDING FLOOR TO BUILDING STRUCTURE ABOVE; UNLESS OTHERWISE DETAILED IN SPECIFIC PARTITION TYPE. CAL (NON-HARDENING) CAULKING BEADS ON EACH SIDE OF THE BOTTOM STUD RUNNER AT THE THREE WAY INTERSECTION ND DRYWALL.

TO CLOSE GAPS BETWEEN SERVICE OUTLETS (ELECTRICAL, TELEPHONE, DATA, ETC) AND DRYWALL. PROVIDE ACOUSTICAL O THE STRUCTURE ABOVE ARE TO BE APPLIED WITH STAGGERED JOINTS

EALED AROUND ALL STRUCTURAL ELEMENTS WITH ACOUSTICAL SEALANT.

.5 FT WIDE ARE TO BE BETWEEN FULL HEIGHT STUDS, OTHERWISE STUDS ARE TO BE FULLY FRAMED AROUND PENETRATION AROUND THE PENETRATING ELEMENT. IS (PIPES, DUCTS, CONDUIT, ETC) SHALL BE SEALED AS FOLLOWS. NOTE THAT ANY FIRE RATED ASSEMBLY CONSTRUCTION

OUNTING FLANGES OF ALL FIXTURES WITH CEILING TYPE TO RECEIVE FIXTURES.

OR COORDINATION OF ALL MEP AND SPRINKLER WORK WITH HEIGHT AND TYPE OF CEILING FINISHES. LING FINISH DESIGNATIONS.

COORDINATE W/ MECH., ELEC., PLUMB. DWGS. FOR SPECIFIC ACCESS PANEL LOCATIONS. NOT ALL ARE SHOWN ON R.C.P.

OUND" WALL ASSEMBLIES SHALL RUN CONTINUOUS AROUND ROOMS INDICATED AND SHALL TAKE PRECEDENCE OVER ADJACENT RATED WALL ASSEMBLIES SHALL BE CONSTRUCTED PER THE REQUIREMENTS OF THE U.L. ASSEMBLY INDICATED. HE RESPONSIBILITY OF ALIGNING THE FACE OF GYPSUM BOARD AND/OR GYPSUM SHEATHING WHERE THE WALL THICKNESS ITION TYPES. TRANSITIONS ON THE OPPOSITE SIDE OF THESE WALLS SHALL BE HIDDEN AT INTERSECTIONS OF OTHER THAT NO IRREGULARITY EXISTS IN THE SURFACE OF THE WALL.

LIEU OF GYPSUM BOARD ON WALL SURFACES TO RECEIVE CERAMIC OR PORCELAIN TILE.

VALLS SHALL BE SEALED SMOKE-TIGHT (VIA PLASTER/ FIRE-STOP SEALANT OVER CONT. BACKING ROD) AT THE ENTIRE PERIMETER DE MINERAL WOOL INSULATION IN INTERSTITIAL SPACE BEHIND SEALANT AND BACKING ROD, INCLUDING FLOOR AND ROOF DECK NELS AT TOP OF WALL

VALLS SHALL BE CONSTRUCTED CONT. THROUGH BLDG. SOFFITS, OVERHANGS AND ANY MISC. INTERSTITIAL SPACES (INCLUDING EALING OF UTILITY PENETRATIONS OF SMOKE BARRIER WALLS FLOOR SHALL NOT EXCEED 1/4" AND SHALL NOT BE IN CONTACT WITH THE SLAB.

6" W/O FRAMING SUPPORT. ADDITIONAL SUPPORT WILL BE NECESSARY AT ALL OPENINGS AND FL. & CLG. JTS.

BE INSTALLED VERTICALLY IN SINGULAR CONT. PIECES WITH NO BUTTED END JOINTS. ALL ALWAYS TAKE PRECEDENCE OVER GRAPHIC REPRESENTATION.

TITION DESIGNATION TAGS REPRESENT THE ENTIRE LENGTH OF THE PARTITION IN WHICH IT IS LOCATED. FRUCTED PER THE GUIDELINES INDICATED IN THE ACOUSTICAL CONSTRUCTION NOTES

TION TYPE "1" UNLESS NOTED OTHERWISE.

DETAILS SHALL BE 3-5/8" METAL STUDS AT 16" ON CENTER, UNLESS NOTED OTHERWISE (SEE PARTITION TYPES).

L BE, OR SHALL CONSULT WITH, A PROFESSIONAL STRUCTURAL ENGINEER REGISTERED IN THE STATE. METAL STUD

RESPONSIBILITY TO ENGINEER THE STUD GAUGES AND ATTACHMENT METHODS NECESSARY TO PROVIDE THE FRAMING IN THE INIMUM STUD GAUGE IS 22 GA. HOWEVER, ALL STUD GAUGES SHALL BE DETERMINED BY THE METAL STUD CONTRACTOR AND E APPLICATION. SUBMIT SIGNED AND SEALED FRAMING SHOP DRAWINGS FOR THE VARIOUS CONDITIONS INDICATING THE STUD TO SUPPORT THE DESIGN. ING AROUND OBSTRUCTIONS.

STRIP AT ALL TRANSITIONS FROM CONCRETE TO TILE FLOOR FINISH U.N.O. Y PIECES REQUIRED FOR FULL AND COMPLETE INSTALLATION OF FINISH MATERIALS.

I EGGSHELL FINISH, U.N.O.

IN ALL CASES THE GENERAL CONTRACTOR SHALL BEAR RESPONSIBILITY FOR COMPLIANCE WITH THE CLEARANCES AND DIMENSIONS INDICATED ON THE ACCESSIBILITY STANDARDS DRAWING AND WITHIN THE BALANCE OF THE CONTRACT DOCUMENTS

THE SPECIFIC DIMENSIONS AND/ OR RANGES INDICATED IN THE ACCESSIBILITY STANDARDS DRAWING ARE A REGULATORY REQUIREMENT; NO ADDITIONAL THE FULL TEXT OF THE 2010 ADA STANDARDS FOR ACCESSIBILITY DESIGN MAY BE FOUND AT THE WEBSITE: https://www.ada.gov/regs2010/2010ADAStandards/2010ADAStandards_prt.pdf

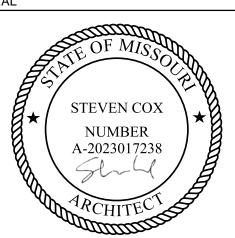
THE FULL TEXT OF THE 2012 ADA STANDARDS FOR ACCESSIBILITY DESIGN MAY BE FOUND AT THE WEBSITE:



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513 MAIN STREET #300 FORT WORTH TX 76102



PERMIT SET: 04/12/2024

CONTRACTOR SHALL VERIFY ALL CONDITIONS AND DIMENSIONS AT THE JOB SITE AND NOTIFY THE ARCHITECT OF ANY DIMENSIONAL ERRORS, OMISSIONS OR DISCREPANCIES BEFORE BEGINNING OR FABRICATING ANY WORK. DO NOT SCALE DRAWINGS. ISSUE DATE DESCRIPTION



PRO	JECT INF	ORMATION	
PRO	JECT NO:		2
ORIG	INAL ISSUE	:	06/
SCAL	.E:		AS I

24-0087 06/01/2023 AS NOTED P. C J. JEFFERY

SHEET TITLE

CHECKED BY:

DRAWN BY:

SYMBOL, LEGENDS, & GENERAL NOTES

SHEET NUMBER

G004

PROJECT R-VALUES

COMPONENT	R-VALUE
ROOF INSUL.	30
WALLS CAVITY	21
WALLS CONT. INSUL.	4.5
FLOOR	N/A



Energy Co Project Tit Location: Climate Zo Project Ty Vertical Gl

Constructi NW Chipm Lee's Sum

1-Dining:

Envelo

Roof: Ins Cafeteri Floor: Un Cafeteri

NORTH Ext. Wall: Cafeteria, Window: SHGC 0.4 Food] (b) Window: SHGC 0.4 <u>EAST</u> Ext. Wall: Cafeteria/

Window: SHGC 0.3 Food] (b) Window: SHGC 0.3 Food] (b)

<u>SOUTH</u> Ext. Wall Cafeteria, Project T

Data filename:

_____ WEST Ext. Wal Cafeteria Window: SHGC 0.. Food] (b) Door: Un Dining: C

Envelope PASSES: Design 3% better than code Envelope Compliance Statement *Compliance Statement:* The proposed envelope design represented in this document is consistent with the building plans, specifications, and other calculations submitted with this permit application. The proposed envelope systems have been designed to meet the 2018 IECC requirements in COM*check* Version COMcheckWeb and to comply with any applicable mandatory requirements listed in the Inspection Checklist. Show 04.10.24 Steven Cox - Senior Project Manager Date Signature

RELEASED FOR CONSTRUCTION As Noted on Plans Review

elopment Services De Lee's Summit, Missour 07/03/2024



Project Information

Code:
ïtle:
:
Zone:
ype:
Glazing / Wall Area:
ction Site:
nman and NW Ward

2018 IECC 2001 Chipman and NW Ward - Lee's Summit MO Lees Summit, Missouri 4a New Construction 6%

Floor Area

1000

tion Site:	Owner/Agent:
tion site.	Owner/Agent:
oman and NW Ward	Andy Hulsey
ımmit, Missouri	Salad and Go
	5555 East Van Buren Street
	Phoenix, Arizona 85008
	410-371-1563
	Andy@SaladandGo.com

Designer/Contractor: Steven Cox Rogue Architects 513 Main Street Fort Worth, Texas 76102 817-820-0433 Joseph@Roguearchitects.com

Additional Efficiency Package(s) Credits: 1.0 Required 1.0 Proposed

Enhanced Interior Lighting Controls, 1.0 credit

Building Area

g: Cafeteria/Fast Food : Nonresidential	

lope Assemblies					
Assembly	Gross Area or Perimeter	Cavity R-Value	Cont. R-Value	Proposed U-Factor	Budget U- Factor _(a)
nsulation Entirely Above Deck, [Bldg. Use 1 - Dining: ria/Fast Food]	900		30.0	0.032	0.032
Jnheated Slab-On-Grade, [Bldg. Use 1 - Dining: ria/Fast Food] (c)	130			0.730	0.540
all: Wood-Framed, 16in. o.c., [Bldg. Use 1 - Dining: ria/Fast Food]	355	21.0	4.5	0.046	0.064
w: Metal Frame: Fixed, Perf. Specs.: Product ID N/A, 0.48, PF 0.13, [Bldg. Use 1 - Dining: Cafeteria/Fast b)	65			0.380	0.380
w: Metal Frame: Operable, Perf. Specs.: Product ID N/A, D.48, [Bldg. Use 1 - Dining: Cafeteria/Fast Food] (b)	15			0.450	0.450
all: Wood-Framed, 16in. o.c., [Bldg. Use 1 - Dining: ria/Fast Food]	687	21.0	4.5	0.046	0.064
v: Metal Frame: Fixed, Perf. Specs.: Product ID N/A,).36, PF 1.33, [Bldg. Use 1 - Dining: Cafeteria/Fast b)	15			0.380	0.380
w: Metal Frame: Operable, Perf. Specs.: Product ID N/A, D.36, PF 0.60, [Bldg. Use 1 - Dining: Cafeteria/Fast b)	15			0.450	0.450
all: Wood-Framed, 16in. o.c., [Bldg. Use 1 - Dining: ria/Fast Food]	256	21.0	4.5	0.046	0.064
Title: 2001 Chipman and NW Ward - Lee's Summit MO ename:				Report d Pag	late: 03/27/2 ge 1 of

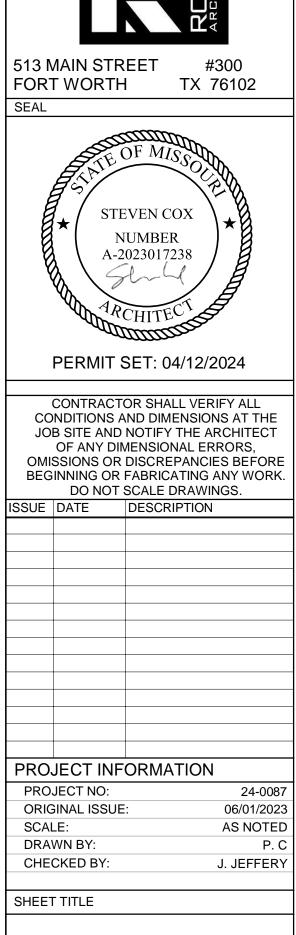
Assembly	Gross Area or Perimeter	Cavity R-Value	Cont. R-Value	Proposed U-Factor	Budget U- Factor _(a)	
Vall: Wood-Framed, 16in. o.c., [Bldg. Use 1 - Dining: eria/Fast Food]	698	21.0	4.5	0.046	0.064	
ow: Metal Frame: Fixed, Perf. Specs.: Product ID N/A, 0.36, PF 0.64, [Bldg. Use 1 - Dining: Cafeteria/Fast (b)	15			0.380	0.380	
Uninsulated Single-Layer Metal, Swinging, [Bldg. Use 1 - g: Cafeteria/Fast Food]	28			0.610	0.610	

(a) Budget U-factors are used for software baseline calculations ONLY, and are not code requirements. (b) Fenestration product performance must be certified in accordance with NFRC and requires supporting documentation. (c) Slab-On-Grade proposed and budget U-factors shown in table are F-factors.

Name - Title

Project Title: 2001 Chipman and NW Ward - Lee's Summit MO Data filename:





COMCHECK

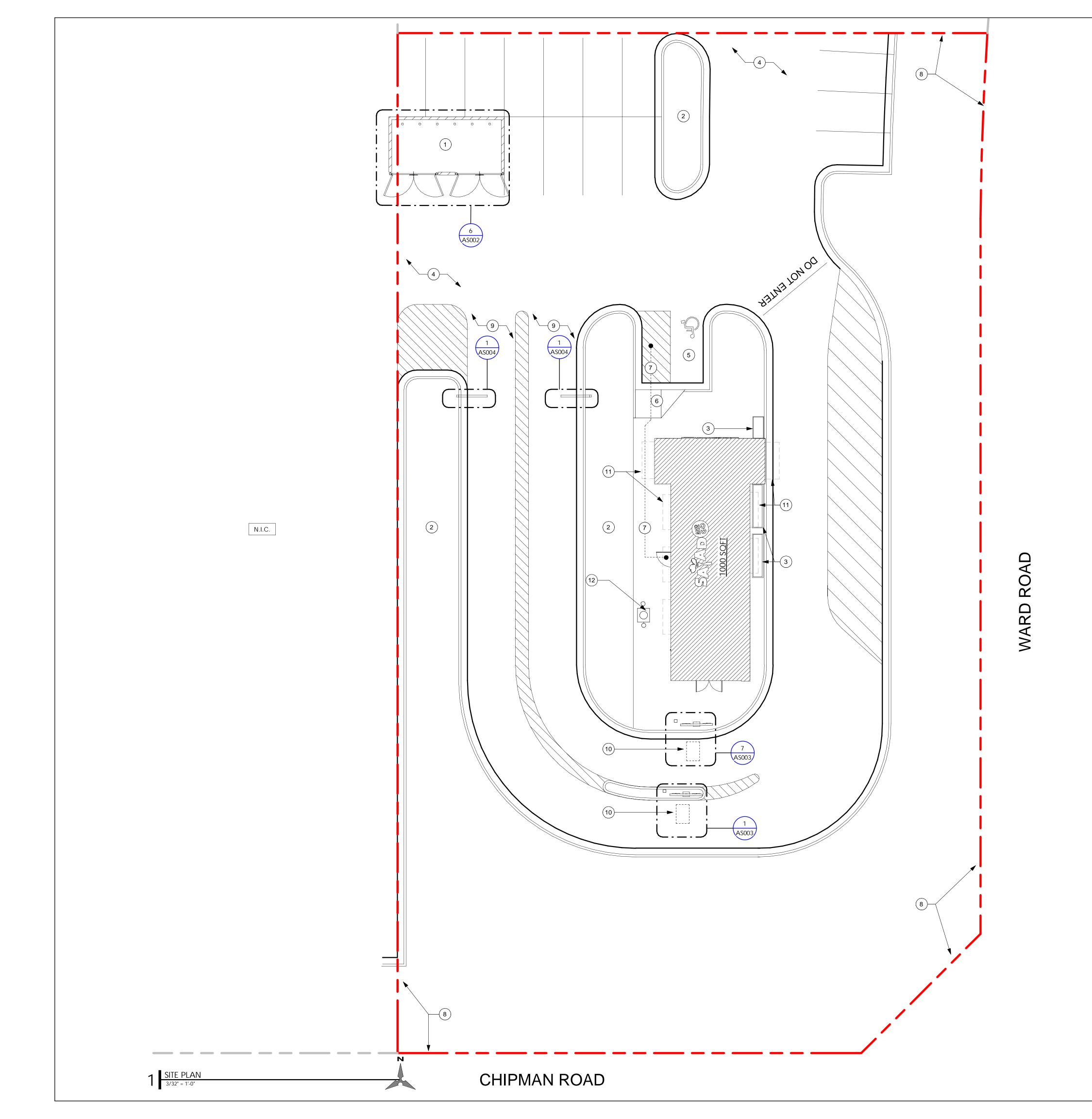
G005

SHEET NUMBER

REVISION DATE: 2024.03.25					RES	SPONS	SIBIL	ITY MATE	RIX							Lee's Summit, M 07/03/202
					THIS THE GENERAL CONTRACTOR IS CONFLICTS BETWEEN THIS SCHEDULE AND THE REST OF TH	RESPONSIBLE	FOR ALL WO		ONSTRUCTION DOCUMENTS.							
DESCRIPTION	FURNIS	HED	INSTALLED	REMARKS	DESCRIPTION	FURNIS	SHED	INSTALLED	REMARKS		F			ALLED		SATAD
	GENERAL CONTRACTO	LANDLOR	GENERAL CONTRACTO OWNER			GENERAL CONTRACT(OWNER	LANDLORI	GENERAL CONTRACTO OWNER		DESCR		OWNER	GENERAL	OWNER	REMARKS	
DIVISION 01: GENERAL REQUIREMENTS					DIVISION 11: EQUIPMENT		Ì		SUPPLIED BY VENDOR NO. 17 GENERAL CONTRACTOR SCOPE OF WORK TO INCLUDE FINAL UTILITY	DIVISION 26: ELECTRICAL						
1.1 PERMITS AND FEES				GENERAL CONTRACTOR TO PULL PERMITS FOR THE BUILDING, DEMO,	11.1 FOOD SERVICE EQUIPMENT	•			CONNECTIONS, REFER TO KITCHEN EQUIPMENT SCHEDULE FOR CLARIFICATION GENERAL CONTRACTOR RESPONSIBLE FOR INSTALLATION, FINAL	26.1 ELECTRICAL IDENTIFICATION		•				
1.1.1 PERMIT FEES	•		•	MECHANICAL, ELECTRICAL, PLUMBING, HEALTH, AND/OR ENVIRONMENT AS REQUIRED BY AHJ - GC TO COORDINATE WITH SALAD AND GO PRECONSTRUCTION MANAGER	11.2 FOOD SERVICE EQUIPMENT STARTUP	•		•	CONNECTION, AND STARTUP OF ALL KITCHEN EQUIPMENT WITH THE EXCEPTION OF WIB AND STOETLING, REFER TO KITCHEN EQUIPMENT SCHEDULE FOR CLARIFICATION SUPPLIED BY VENDOR NO. 17, GENERAL CONTRACTOR TO COORDINATE	26.2 POWER DISTRIBUTION SYSTEM						
1.1.2 OTHER PERMITS AND FEES	•		•	GENERAL CONTRACTOR TO SECURE AND PAY FOR OTHER REQUIRED PERMITS AND FEES NOT NOTED IN LINE ITEM 1.1.1 E.G. DUST CONTROL	11.3 STAINLESS STEEL FABRICATED COUNTERS AND SHELVING	•		• •	DELIVERY AND INSTALL, REFER TO KITCHEN EQUIPMENT SCHEDULE FOR CLARIFICATION	26.2.1 MAIN SERVICE GEAR AND TRAM	ISFORMERS	•	•			с С
1.2 TEMPORARY UTILITIES	•		•		11.4 STORAGE RACKS AND SHELVING	•		•	GENERAL CONTRACTOR TO COORDINATE WITH VENDOR NO. 17 FOR ADDITIONAL SCOPE OF WORK (E.G. PROVIDING BLOCKING), REFER TO KITCHEN EQUIPMENT SCHEDULE FOR CLARIFICATION	26.2.2 MAIN SERVICE CONDUIT		•	•			
1.3 TEMPORARY BARRICADES OR SITE FENCING 1.3.1 BARRICADE GRAPHICS	•	2 - 2	•	SALAD AND GO TO PROVIDE SALAD AND GO BRANDED GRAPHICS/SIGNAGE (OFCI) - GC TO PROVIDE AHJ REQUIRED SIGNAGE	DIVISION 12: FURNISHINGS 12.1 NON-PERISHABLE DELIVERY #1	•		•	INCLUDING BUT NOT LIMITED TO: HAIR NET HOLDER, MAGNETIC KNIFE HOLDER, SOAP DISPENSERS, CLEAR FILE HOLDER, FIRST AID KIT, ICE	26.2.3 MAIN SERVICE WIRING 26.2.4 MAIN SERVICE FUSES		•				
1.4 CONSTRUCTION DUMPSTERS AND TRASH BINS	•		•	GENERAL CONTRACTOR TO COORDINATE WITH LANDLORD, WASTE	12.1.1 PAPER TOWEL DISPENSERS			· · ·	SCOOPS, ETC GC TO PROCURE AND INSTALL ALL PAPER TOWEL DISPENSERS. ONE PER HANDWASH SINK. CONFIRM QUANTITY WITH SAG PM. SPEC FROM					TYPIC	ALLY PROVIDED BY UTILITY PROVIDER. GENERAL CONTRACTOR TO Y. IF NOT PROVIDED BY UTILITY GENERAL CONTRACTOR TO	
1.5 FINAL CLEANING	•		•	MANAGEMENT, CITY AND COUNTY SITE TO BE PROFRESSIONALLY CLEANED PRIOR TO STOCKING, TRAINING	12.2 OFFICE SUPPLIES	•		•	AMAZON: SAN JAMAR T1190TBK, OCEANS, BLACK PEARL, 12 15/16 x 9 1/4 x 16 1/2 VENDOR NO. 25	26.2.6 TENANT DISTRIBUTION PANELS	AND BREAKERS	•			IDE AND INSTALL.	
1.6 CERTIFICATE OF OCCUPANCY	•		•	AND OPENING TO INCLUDE BUILDING, FIRE AND HEALTH INSPECTIONS - ALL REQUIRED BY AHJ	12.3 WALL MOUNT COAT RACK	•		•	GENERAL CONTRACTOR TO INSTALL OFCI, PROVIDED WITH OFFICE SUPPLIES VENDOR NO. 25	26.2.7 CONDUIT, WIRE, OUTLETS, AND	SWITCHES	•				
1.7 SITE PREPERATION FOR NEW PAD DIVISION 02: EXISTING CONDITIONS	•		•		12.4 INTERIOR TRASH RECEPTACLES 12.5 EMPLOYEE STORAGE	•		•	SUPPLIED AND INSTALLED BY VENDOR NO. 17	26.2.8 KITCHEN EQUIPMENT FINAL CC 26.2.9 SIGNAGE CONDUIT AND WIRING		•				A A A
2.1 DEMOLITION DIVISION 03: CONCRETE	•				DIVISION 13: SPECIAL CONSTRUCTION 13.1 WALK-IN COOLER	•		•	GENERAL CONTRACTOR TO COORDINATE INSTALLATION DETAILS WITH VENDOR NO. 17 AND PM	26.3 LIGHTING DEVICES 26.3.1 PARKING LOT LIGHTING		•	•	LIGHT	RAL CONTRACTOR SCOPE OF WORK TO INCLUDE POWER TO ING FIXTURES	
3.1 CONCRETE SLAB AND FOUNDATION	•		•	REFER TO STRUCTUAL DRAWINGS AND ARCHITECTURALS FOR ADDITIONAL INFORMATION	DIVISION 21: FIRE SUPPRESSION		1 1			26.3.2 INTERIOR AND EXTERIOR LIGH	ΓING	•		VENDO GENER	RAL CONTRACTOR TO PURCHASE FROM VENDOR NO. 1 OR SUBSTITUTION IS NOT PERMITTED RAL CONTRACTOR TO PURCHASE FROM VENDOR NO. 1	
3.2 CONCRETE CUTTING AND CORING DIVISION 04: MASONRY	•				21.1 FIRE SUPPRESSION IDENTIFICATION 21.1.1 PIPING SYSTEM IDENTIFICATION	•		•		26.3.3 EMERGENCY LIGHTING 26.4 LOW VOLTAGE		•	•- -		OR SUBSTITUTION IS NOT PERMITTED E OF WORK TO INCLUDE INTERIOR AND EXTERIOR	
4.1 MASONRY AND STUCCO DIVISION 05: METALS	•		•		21.1.2 VALVE TAGS 21.2 SPRINKLER STANDPIPE	•		•	AS REQUIRED BY AHJ	26.4.1 CONDUIT AND WIRING 26.4.2 DEVICES AND COVERPLATES		•			IDE CAMERA CONDUIT	, ≤ O ++
5.1 STRUCTURAL STEEL 5.2 CLEARANCE BARS 5.3 ROOE LADDER AND HATCH	•		•	SCOPE OF WORK INCLUDES ROOF AND WALL PENETRATIONS VENDOR NO. 22	21.2.1 BACKFLOW PREVENTER 21.2.2 ISOLATION VALVE 21.3 AUTOMATIC SPRINKLER SYSTEM	•		•	AS REQUIRED BY AHJ AS REQUIRED BY AHJ AS REQUIRED BY AHJ	26.5 CAMERA WIRING DIVISION 27: COMMUNICA 27.1 TELECOMMUNICATIONS IDENTIFIC		•		•		
5.3 ROOF LADDER AND HATCH 5.4 FRAMING 5.5 REVEALS AND TRIMS	•		•		21.3.1 SYSTEM ENGINEERING (E.G. STAMPED PLANS AND CALUCATIONS) 21.3.2 SPRINKLER COVERAGE	•		•	AS REQUIRED BY AHJ AS REQUIRED BY AHJ	27.2 TELECOMMUNICATIONS 27.2.1 DATA TERMINATIONS		•		•		
5.6 UNISTRUT, THREADED ROD 5.7 RAILINGS	•		•		21.3.3 SPRINKLER GRID APPURTENANCES (E.G. AIR VALVES AND DRAINS) DIVISION 22: PLUMBING	•		•	AS REQUIRED BY AHJ	27.2.2 WIFI EXTENDER (EXTERIOR MO 27.2.3 LOW VOLTAGE WIP FOR WIFI E		•		ROOF	QUIRED F PENETRATION WITH CONDUIT PER DETAIL	
5.8 STRUCTURAL FRAMING	•		•	SCOPE OF WORK TO INCLUDE REINFORCEMENT IN ROOF PENETRATIONS	22.1 PLUMBING IDENTIFICATION					27.2.4 DATA PATCH PANEL		• •		• RJ45 E	: TRIPP LITE 24-PORT 1U RACKMOUNT CAT6 110 PATCH PANEL 568B, ETHERNET(N252-024) FOR RACK: NAVEPOINT 15U WALL MOUNT IT OPEN FRAME 19 INCH	
5.9 CANOPIES AND AWNINGS					22.1.1 PIPING SYSTEM IDENTIFICATION	•			MATERIAL TO CONSIST OF 2" VINYL LETTERING, UNLESS OTHERWISE NOTED IN SPECIFICATIONS	27.2.5 IT RACK AND SHELVES			.	RACK	WITH SWING OUT HINGED GATE BLACK FOR SHELVES 3 MIN: STARTECH CABSHELF116V (REQUIRED 3	Ц O Ц
										_					L) RAL CONTRACTOR TO COORDINATE WITH SALAD AND GO PM FOR T FIELD INSTALLATION LOCATION	
5.9.1 DRIVE THRU CANOPY 5.9.2 AWNINGS	•		•		22.1.2 UTILITY SHUT OFF IDENTIFICATION IN KITCHEN 22.1.3 VALVE TAGS AND CHART	•		•	MATERIAL TO CONSIST OF 2" VINYL RED LETTERING, UNLESS OTHERWISE NOTED IN SPECIFICATIONS	E 27.3 MONITORS 27.3.1 CONDUIT AND WIRING		•				
DIVISION 06: WOOD, PLASTICS AND COMPOSITE 6.1 FINISH CARPENTRY	S				22.2 DRAINS AND CLEANOUTS 22.2.1 DRAINS AND FLOOR SINKS	•		•		27.3.2 MOUNTS 27.3.3 DEVICES		•		•	RAL CONTRACTOR TO COORDINATE WITH SALAD AND GO PM FOR	μ ^μ
6.1.1 MANAGER'S DESK & LAMINATE DIVISION 07: THERMAL AND MOISTURE PROTEC			•		22.2.2 THROUGH DRAIN FOR ICE MACHINE 22.3 PIPING SYSTEMS AND SPECIALTIES	•		•	REFER TO KITCHEN AND PLUMBING SHEET FOR SPECIFICATIONS	27.4 DRIVE THRU LOOPS DIVISION 28: ELECTRONIC	C SAFETY AND SECURITY	•	•		T INSTALLATION LOCATION	
7.1 INSULATION 7.2 ROOF PENETRATIONS	•		•		22.3.1 STORM DRAINAGE 22.3.2 STORM DETENTION SYSTEM	•		•	REFER TO CONTRACT; PURCHASED BY GC UNLESS LEAD TIME PROHIBITS IN WHICH SALAD AND GO PURCHASES DIRECTLY FROM VENDOR NO. 6	28.1 SECURITY ALARM SYSTEM S 28.1.1 CONDUIT		•				
7.3 PRE-FINISHED PARAPET COPING 7.4 SEALANTS AND CAULKING	•		•	 	22.3.3 DOMESTIC WATER 22.3.4 GREASE WASTE	•		•	IN WHICH SALAD AND GO PURCHASES DIRECTLY FROM VENDOR NO. 6	28.1.2 WIRING AND DEVICES 28.2 SECURITY CAMERAS		•		•		
7.5 EXTERIOR INSULATION AND FINISH SYSTEM (EIFS) DIVISION 08: OPENINGS	•		•		22.3.5 CONDENSATE 22.3.6 VENT	•		•		28.2.1 WIRING 28.2.2 DEVICES		•		•		513 MAIN STREET #300 FORT WORTH TX 76102
8.1 DOORS AND FRAMES 8.2 STOREFRONT SYSTEMS	•		•	INCLUDES PEEPHOLES	22.3.7 SANITARY WASTE 22.3.8 PIPING FITTINGS	•		•		28.3 MENU SPEAKERS 28.3.1 CONDUIT		•	•	COND	RAL CONTRACTOR TO FURNISH AND INSTALL 1 POWER AND 2 DATA JUIT TO EACH MENU BOARD. EACH CONDUIT TO BE DEDICATED TO BUILDING. DATA CONDUIT TO BE STUBBED FROM MENU BOARD BOVE CEILING IN BUILDING. CLARIFY WITH SAG PM PRIOR TO	SEAL
8.3 DOOR HARDWARE 8.4 DRIVE THRU WINDOWS DIVISION 09: FINISHES	•		•	GENERAL CONTRACTOR TO PURCHASE FROM VENDOR NO, 9	22.3.9 VALVES AND SHUT OFF VALVES 22.3.10 WATER BOOSTER PUMP 22.3.11 GREASE INTERCEPTOR	•		•	AS REQUIRED BY AHJ	28.3.2 WIRING 28.3.3 DEVICES 28.3.4 MENU SPEAKER FOUNDATION		•••			ALLATION	STEVEN COX
9.1 GYPSUM WALLBOARD AND ACCESSORIES			•		22.4 INCOMING WATER FILTER SYSTEM				GENERAL CONTRACTOR TO FURNISH AND INSTALL 1 4"X10" CANISTER FILTER HOUSING WITH 30 MICRON SEDIMENT FILTER. SPEC: HOUSING:	28.4 FIRE ALARM SYSTEM				AS RE	QUIRED BY AHJ	★ STEVEN COX NUMBER
9.2 PLYWOOD WALLBOARD					22.5 WATER HEATER				GXWH35F, FILTER: FXHSC, COORDINATE WITH PLANS AND SAG PM FOR LOCATION GENERAL CONTRACTOR TO PURCHASE FROM NATIONAL ACCOUNT	28.4.1 SYSTEM ENGINEER		_				A-2023017238
9.3 CEMENT BOARD 9.4 SUSPENDED 'T' BAR LAY-IN CEILING	•		•		22.6 MOP SINK 22.6.1 FLOOR MOUNTED MOP SINK	•		•	VENDOR NO. 13 REFER TO KITCHEN AND PLUMBING SHEET FOR SPECIFICATION	28.4.2 CONNECTION TO BASE BUILDIN 28.4.3 DEVICES		•		AS NE	EDED	ARCHITECT
9.5 EXTERIOR CLADDING 9.6 FLOORING	•		•		22.6.2 SERVICE FAUCET FOR MOP SINK 22.7 PLUMBING FIXTURES	•		•		DIVISION 32: EXTERIOR II 32.1 IRRIGATION SYSTEM	/IPROVEMENTS	•	•			A DEPENDENCE
9.6.1 TILE FLOORING AND COVE BASE	•		•	GENERAL CONTRACTOR TO PURCHASE FROM VENDOR NO. 4 VENDOR SUBSTITUTION IS NOT PERMITTED	22.7.1 TOILETS, URINAL, AND LAVATORIES	•		•	GENERAL CONTRACTOR SCOPE OF WORK TO INCLUDE ALL NECESSARY FITTINGS (E.G. FLUSH VALVES, FAUCETS, AND FITTINGS)	32.2 PARKING LOT PATCH SEAL, AND ST	RIPE	•	•			PERMIT SET: 04/12/2024
9.6.2 THRESHOLDS 9.6.3 REDUCERS	•		•		22.7.2 KITCHEN FAUCETS 22.8 WATER SOFTENER	•		•	GENERAL CONTRACTOR SCOPE OF WORK TO INCLUDE FINAL UTILITY CONNECTIONS IF CALLED OUT IN DRAWINGS	32.3 RAMPS 32.4 PAVING AND HARDSCAPE		•	-			CONTRACTOR SHALL VERIFY A CONDITIONS AND DIMENSIONS AT
9.6.4 WALK-IN COOLER AND FREEZER TILE 9.7 PAINT	•		•	ALL TILE TO BE INSTALLED PRIOR TO INSTALLATION OF COOLER, GC TO MAKE FINAL ELECTRICAL CONNECTION GENERAL CONTRACTOR TO UTILIZE NATIONAL ACCOUNT VENDOR NO. 23	DIVISION 23: HEATING, VENTILATING, AND AIR CON 23.1 HVAC DUCTWORK AND PIPING IDENTIFICATION		G	•		32.5 CONCRETE CURBS 32.6 TRASH ENCLOSURE		•	-			JOB SITE AND NOTIFY THE ARCHI OF ANY DIMENSIONAL ERROR OMISSIONS OR DISCREPANCIES BE
DIVISION 10: SPECIALTIES 10.1 IDENTIFICATION DEVICES					23.2 ROOF CURBS 23.3 HVAC DUCTWORK SYSTEM COMPONENTS	•		•		32.7 LANDSCAPE PLANT MATERIAL		•	•			BEGINNING OR FABRICATING ANY N DO NOT SCALE DRAWINGS.
10.1.1 EXTERIOR MOUNTED BUILDING SIGNAGE	•		L •	GENERAL CONTRACTOR TO COORDINATE AND REVIEW SIGN PACKAGE WITH VENDOR NO. 20 (A OR B DEPENDING ON MARKET) FOR ADDITIONAL SCOPE OF WORK (E.G. PROVIDING POWER AND BLOCKING)	23.4 MECHANICAL PIPING SYSTEM COMPONENTS					REVISION DATE: 2024.03.25	NATIONAL ACCOUNT A		R-VENDOR LIS	ST		ISSUE DATE DESCRIPTION
10.1.2 TACTILE SIGNAGE	•		•		23.4.1 WALK-IN COOLER REFRIGERATION	•		•	WALK-IN COOLER SUPPLIED BY VENDOR NO. 17 GENERAL CONTRACTOR SCOPE OF WORK TO INCLUDE PIPING AND FINAL CONNECTION	NOTE TO DESIGN CONSULTANTS	ly one vendor will be selected.					
10.1.3 SERVICE DOOR IDENTIFICATION 10.1.4 ACCESSIBILITY AND MISCELLANEOUS RESTROOM SIGNAGE	•		•		23.4.2 WIB CONDENSATION LINE 23.4.3 REFRIGERATION FOR OTHER HVAC EQUIPMENT	•		•		1 Lighting Consolidated Electrical Distributors (CED)	8 Keying & Locks [Company]	15 Menu Bo Howard C		21 Decorat Nichiha	tive Wall Panels	
10.1.5 BAND LETTERS (CANOPY)	•		•	GENERAL CONTRACTOR TO COORDINATE AND REVIEW SIGN PACKAGE WITH VENDOR NO. 20 (A OR B DEPENDING ON MARKET) FOR ADDITIONAL SCOPE OF WORK (E.G. PROVIDING POWER, BLOCKING, AND SUPPORT)	23.4.4 WIB FINAL ELECTRICAL CONNECTION	•		•		David Rash P 817-480-1171 E david.rash@ced.com	[Contact Name] P E	Grant Guts P 262-853	ske		Iziel 132-5866 iel@nichiha.com	
10.1.6 MENU BOARD	•		•	GENERAL CONTRACTOR TO COORDINATE WITH VENDOR NO. 15 FOR ADDITIONAL SCOPE OF WORK (E.G. PROVIDING BLOCKING), POWER, DATA CONDUIT	23.4.5 WIB PENETRATIONS AND FINAL SEALING	•		•		2 HVAC Units	9 Operable (Drive-Thru) Windows	16 Intercom	System	22 Clearan	nce Bars	
10.1.7 MENU BOARD PAD/ISLAND & FOOTING W/ ANCHOR BOLTS	•		•	GENERAL CONTRACTOR TO INSTALL PER DRAWINGS AND CONFIRM LOCATION WITH SAG PM AND CONFIRM BOLT SIZE AND PATTERN NEEDED, ANCHOR BOLTS ARE OFCI	23.5 HVAC EQUIPMENT				GENERAL CONTRACTOR SCOPE OF WORK TO INCLUDE RIGGING FOR ALL ROOFTOP EQUIPMENT	Trane Cameron Peck P 623-980-5012	QuikServ Brian McCloskey P 832-792-2646	Midwest S Kent Mesk P 480-626	e	Shannor	in Holcomb 974-1780	
10.1.8 CLEARANCE BARS	••		•	GENERAL CONTRACTOR TO INSTALL PER DRAWINGS AND CONFIRM LOCATION WITH SAG PM AND CONFIRM BOLT SIZE AND PATTERN NEEDED, ANCHOR BOLTS ARE OFCI	23.5.1 SUPPLY FAN	•		•		E cameron.peck@trane.com	E bmccloskey@quikserv.com	E kmeske@	@midsysserv.com		comb@unistructures.com	
0.2 FIRE PROTECTION DEVICES 10.2.1 FIRE EXTINGUISHERS AND HANGING HARDWARE	•		•	GENERAL CONTRACTOR TO COORDINATE WITH THE FIRE DEPARTMENT, NO CABINET	23.5.2 TOILET EXHAUST FAN 23.5.3 KITCHEN EXHAUST FAN	•		•		3 Air Curtains Mars Air Systems Frank Cuaderno	10 Awnings (Prefabricated) TBD [Contact Name]	17 Kitchen Ed Concept S Maura Rick	Services hardson	Michael	n-Williams Barden	PROJECT INFORMATION
10.2.2 RISER ROOM IDENTIFICATION 10.2.3 KNOX BOX	•		•	GENERAL CONTRACTOR TO COORDINATE WITH THE FIRE DEPARTMENT	23.5.4 DUCTED AND NON-DUCTED HEATING AND COOLING UNITS 23.5.5 HVAC CONDENSING UNITS	•		•		P 310-532-1555 Ext. 1221 E frankc@marsair.com	P E		lson@conceptserv.com	E micha	244-0949 ael.p.barden@sherwin.com	PROJECT NO: 2 ORIGINAL ISSUE: 06/0
0.3 TOILET ROOMS	•				23.5.6 REFRIGERATION CONDENSING UNITS	•		•		4 Tile DalTile	11 Electrical Switchgear Consolidated Electrical Distributors (CED)	18 Restroom Bobrick		24 FRP Wa TBD		SCALE: AS N DRAWN BY:
10.3.1 TOILET ROOM ACCESSORIES 10.3.2 TOILET ROOM HARDWARE	•		•	REFER TO RR ACCESSORIES SCHEDULE FOR OFCI ITEMS SUPPLIED BY VENDOR NO. 18	23.6 COMMISSIONING ACTIVITIES 23.6.1 TESTING AIR BALANCE (TAB) REPORT	•		•		David Santibañez P 562-644-4360 E david.santibanez@daltile.com	David Rash P 817-480-1171 E david.rash@ced.com	[Contact N P E	amej	P E	xt Name]	CHECKED BY: J. JE
0.4 KITCHEN DISPLAY SYSTEM (KDS) MOUNTS 0.5 OFFICE SAFE	•		•	VENDOR NO. 14	23.7 AIR CURTAINS 23.8 DEHUMIDIFIER	•		•	GENERAL CONTRACTOR TO PURCHASE FROM VENDOR NO. 3 *ONLY FOR HOUSTON AREA STORES. GC TO PROVIDE AND INSTALL DRAIN LINE RAN TO FLOOR SINK	5 Door Hardware Allegion Brands	12 Roofing Membrane System [Company]	19 Security S Liberty Ala		25 Office S TBD	upplies	SHEET TITLE
0.6 FIBERGLASS REINFORCED PLASTIC (FRP) PANELS AND ACCESSORIES	•		•						GC TO PROVIDE AND INSTALL DRAIN LINE RAN TO FLOOR SINK	Earl Thompson P 480-340-1829	[Contact Name] P F	Cameron E P 480-734	3rown -8340	[Contact P	t Name]	
	•			VENDOR NO. 7	1					E earl.thompson@allegion.com 6 Stormwater Management	13 Water Heaters	E cameron	@libertyalarmaz.com	E 25 Grease		RESPONSIBILITY
10.7 STAINLESS STEEL KITCHEN CORNER GUARDS AND END CAPS		10 - 10 - 10 - 10 - 10								Contrach English 1.5	10 Pmill					
10.7 STAINLESS STEEL KITCHEN CORNER GUARDS AND END CAPS 10.8 CHEMICAL DISPENSING	•	i i i								Contech Engineered Systems Mitchell Begg P 470-599-9065	AO Smith Chris Murphy P 615-305-7074	20a Signage C Atlas Sign	Contractor - West Region	n Schier Sean Mo P 913-9	lolen - National Accounts 951-3300	MATRIX
10.7 STAINLESS STEEL KITCHEN CORNER GUARDS AND END CAPS										Contech Engineered Systems Mitchell Begg	Chris Murphy P 615-305-7074 E cmurphy@hotwater.com 14 Safe	20a Signage C Atlas Sign Lori Watkir P 561-301-	contractor - West Region เ าร	n Schier Sean Mo P 913-9	Iolen - National Accounts	MATRIX
10.7 STAINLESS STEEL KITCHEN CORNER GUARDS AND END CAPS										Contech Engineered Systems Mitchell Begg P 470-599-9065 E mitchell.begg@conteches.com	Chris Murphy P 615-305-7074 E cmurphy@hotwater.com	20a Signage C Atlas Sign Lori Watkir P 561-301 E lori.w@a 20b Signage C	Contractor - West Region I Is -2516	n Sean Mo P 913-9 E nation	lolen - National Accounts 951-3300	

RELEASED FOR CONSTRUCTION As Noted on Plans Review





RELEASED FOR CONSTRUCTION Noted on Plans Revie opment Services De Lee's Summit, Missou 07/03/2024 SITE PLAN GENERAL NOTES A. COORDINATE SITE PLAN WITH LANDSCAPE, ARCHITECTURAL, CIVIL, MECHANICAL, AND ELECTRICAL SITE PLAN. REPORT ANY DISCREPANCIES TO THE ARCHITECT. B. SIGNAGE TO BE DIFFERED SUBMITTAL. REF: TO SHEET A201 FOR BUILDING MOUNTED SIGNAGE LOCATIONS. REF: ELEC FOR ELECTRICAL INFORMATION. C. DRIVE-THRU EQUIPMENT INCLUDING WIRELESS COMMUNICATION AND MONITORS SHALL BE COORDINATED BY GENERAL CONTRACTOR. REF: ELEC FOR ELECTRICAL INFORMATION. D. GENERAL CONTRACTOR TO APPLY CONCRETE SEALER TO ALL EXTERIOR CONCRETE PATIO AND WALKWAY SURFACES. E. PROVIDE DETECTABLE WARNING (IF APPLICABLE PER LOCAL CODE) AT TRANSITION FROM SIDEWALK TO DRIVE AISLE. F. ACCESSIBLE PARKING SPACE AND ACCESS AISLE SHALL HAVE SURFACE SLOPE NOT TO EXCEED 2% IN ALL DIRECTIONS. S G. REFER TO ELECTRICAL DRAWINGS FOR SITE RELATED ELECTRICAL \square Ο H. UTILITY BOXES, PEDESTALS AND METER PANELS SHALL BE PAINTED TO BLEND IN WITH SURROUNDINGS. ALL UTILITY BOXES AND METER 0 PANELS ON WALLS SHALL BE PAINTED TO MATCH THE BUILDING WALLS WITH UTILITY COMPANY APPROVALS $\mathbf{\mathcal{L}}$ 00 Ο I. REFERENCE LANDSCAPE DRAWNINGS IN CIVIL SET FOR ы N LANDSCAPING DESIGN. RO Z VERSION Δ HIPM 64086 #200 γpe MO PROTOT -MMIT NN S 0 $(\cap$ $\overline{}$ Ш 0 Ш 513 MAIN STREET #300 FORT WORTH TX 76102 SEAL STEVEN COX NUMBER A-2023017238 PERMIT SET: 04/12/2024 CONTRACTOR SHALL VERIFY ALL CONDITIONS AND DIMENSIONS AT THE JOB SITE AND NOTIFY THE ARCHITECT OF ANY DIMENSIONAL ERRORS, OMISSIONS OR DISCREPANCIES BEFORE BEGINNING OR FABRICATING ANY WORK. DO NOT SCALE DRAWINGS. ISSUE DATE DESCRIPTION

REF: CIVIL FOR LEGAL DESCRIPTION, DIMENSIONS AND UTILITY LOCATIONS.

ARCHITECTURAL SITE PLAN KEYNOTES

- 1. TRASH ENCLOSURE, REF: DETAILS ON SHEET AS002
- 2. LANDSCAPING, REF: CIVIL.

WORK.

- 3. PLANTER BOXES: OLD TOWN FIBERGLASS, STANDARD RECTANGLE, FINISH: FLAME 28 (SAND), 18" HIGH, REF: LANDSCAPING.
- 4. SITE ACCESS, REF: CIVIL.
- 5. ACCESSIBLE PARKING, REF: CIVIL.
- 6. ACCESSIBLE PARKING RAMP, REF: CIVIL.
- 7. 36" WIDE MINIMUM ACCESSIBLE PATH OF TRAVEL TO ACCESSIBLE PARKING. NO ABRUPT CHANGES IN ELEVATION ALONG THE PATH OF TRAVEL SHOWN. THE SLOPE AND CROSS SLOPE ALONG THE PATH OF TRAVEL SHALL NOT EXCEED 5% AND 2% RESPECTIVELY, REF: CIVIL.
- 8. PROPERTY LINE.
- 9. DRIVE THRU LANE.
- 10. CONDUIT STUB UNDER CURB TO LOOP VERTICAL DETECTION BY GC. REF: ELEC
- 11. OUTLINE OF CANOPY ABOVE.
- 12. GREASE TRAP, REF: CIVIL AND PLUMBING

SHEET NUMBER

PROJECT INFORMATION

24-0087

P. C

06/01/2023 AS NOTED

J. JEFFERY

PROJECT NO:

CHECKED BY:

SHEET TITLE

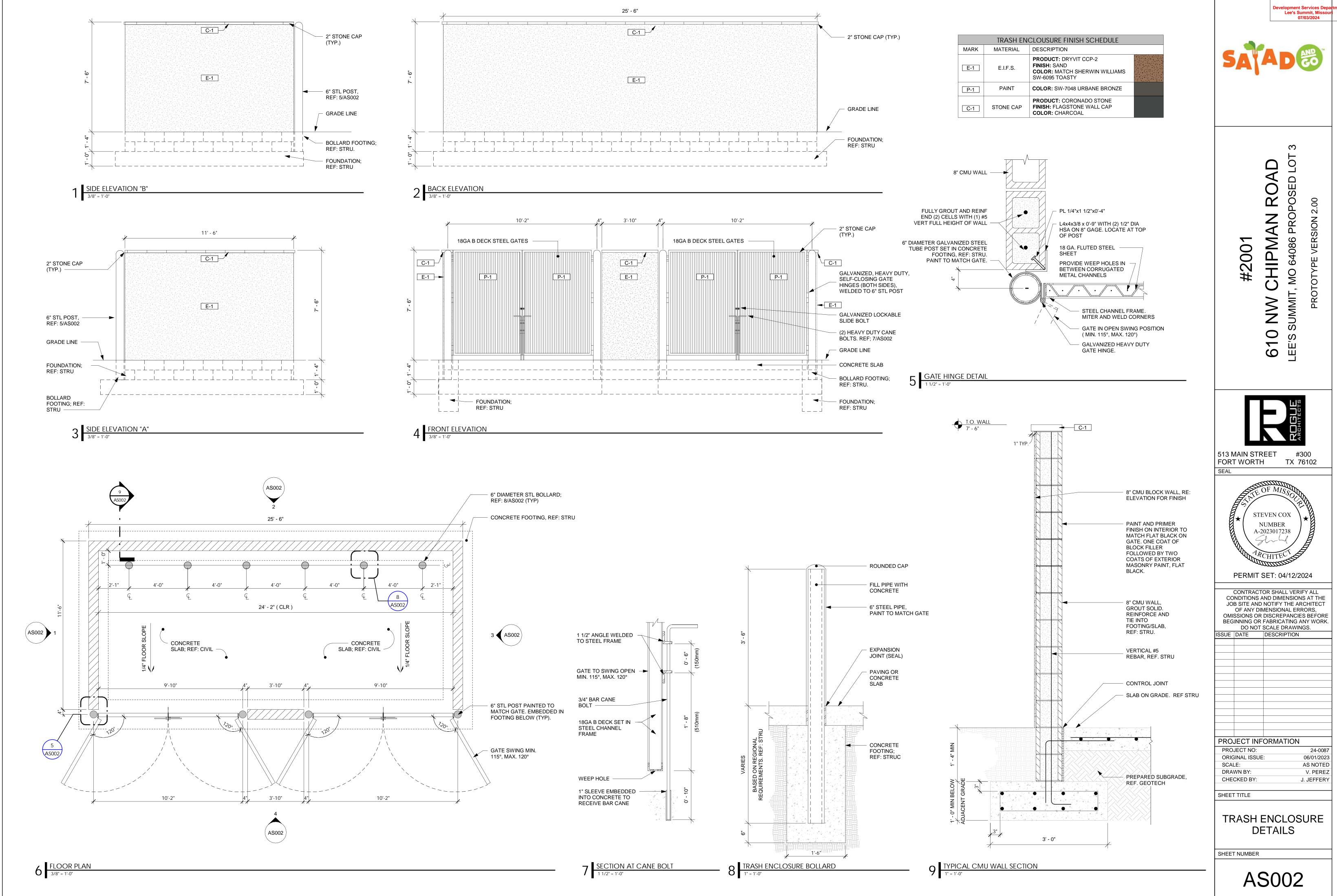
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ORIGINAL ISSUE:



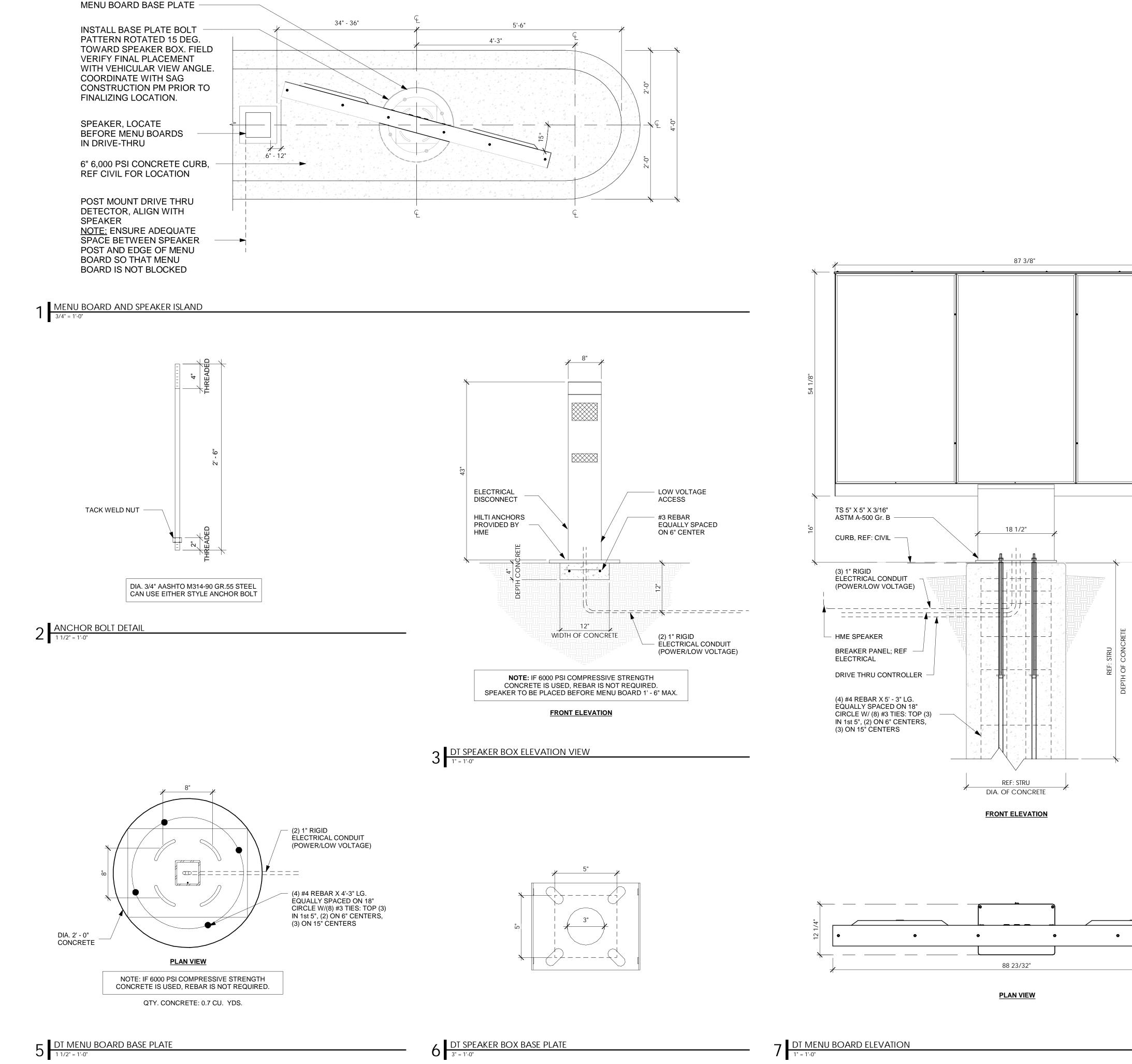
ARCHITECTURAL

SITE PLAN

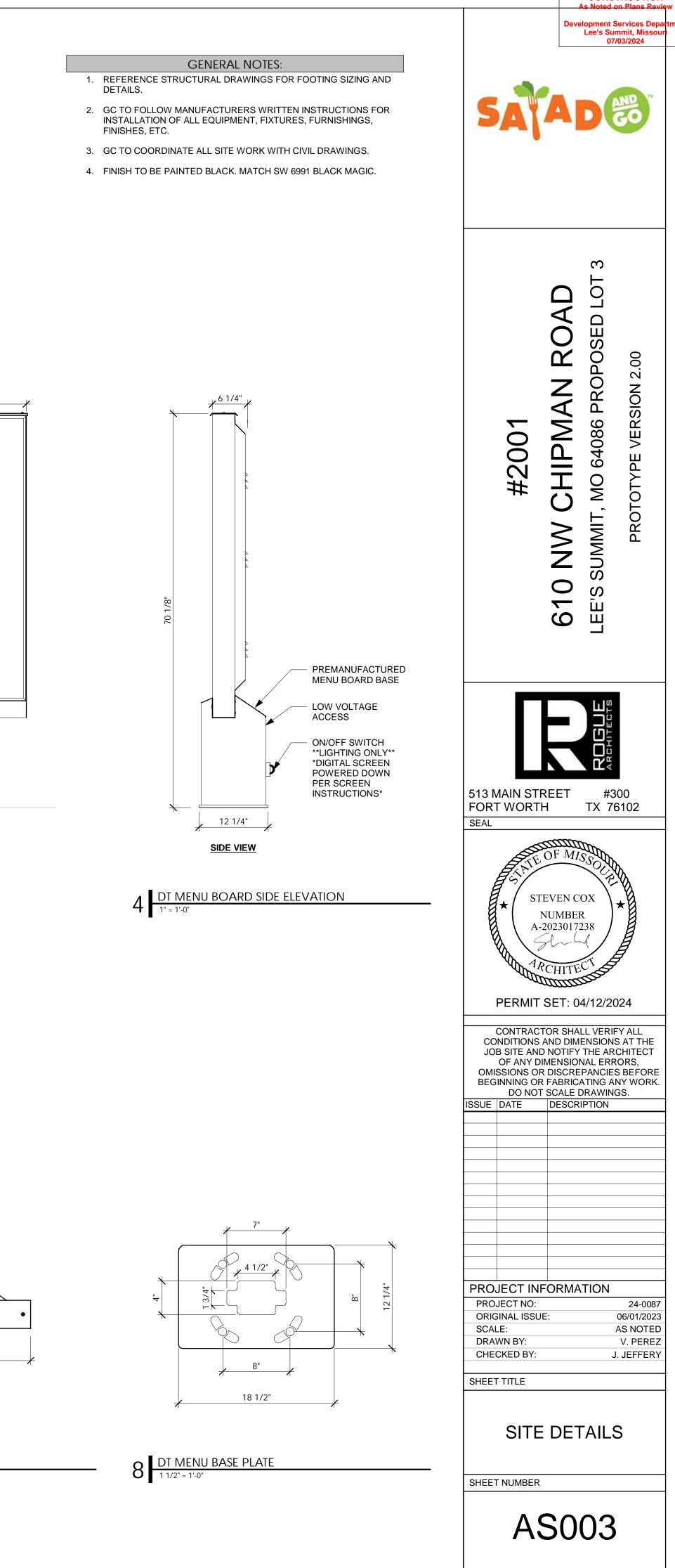


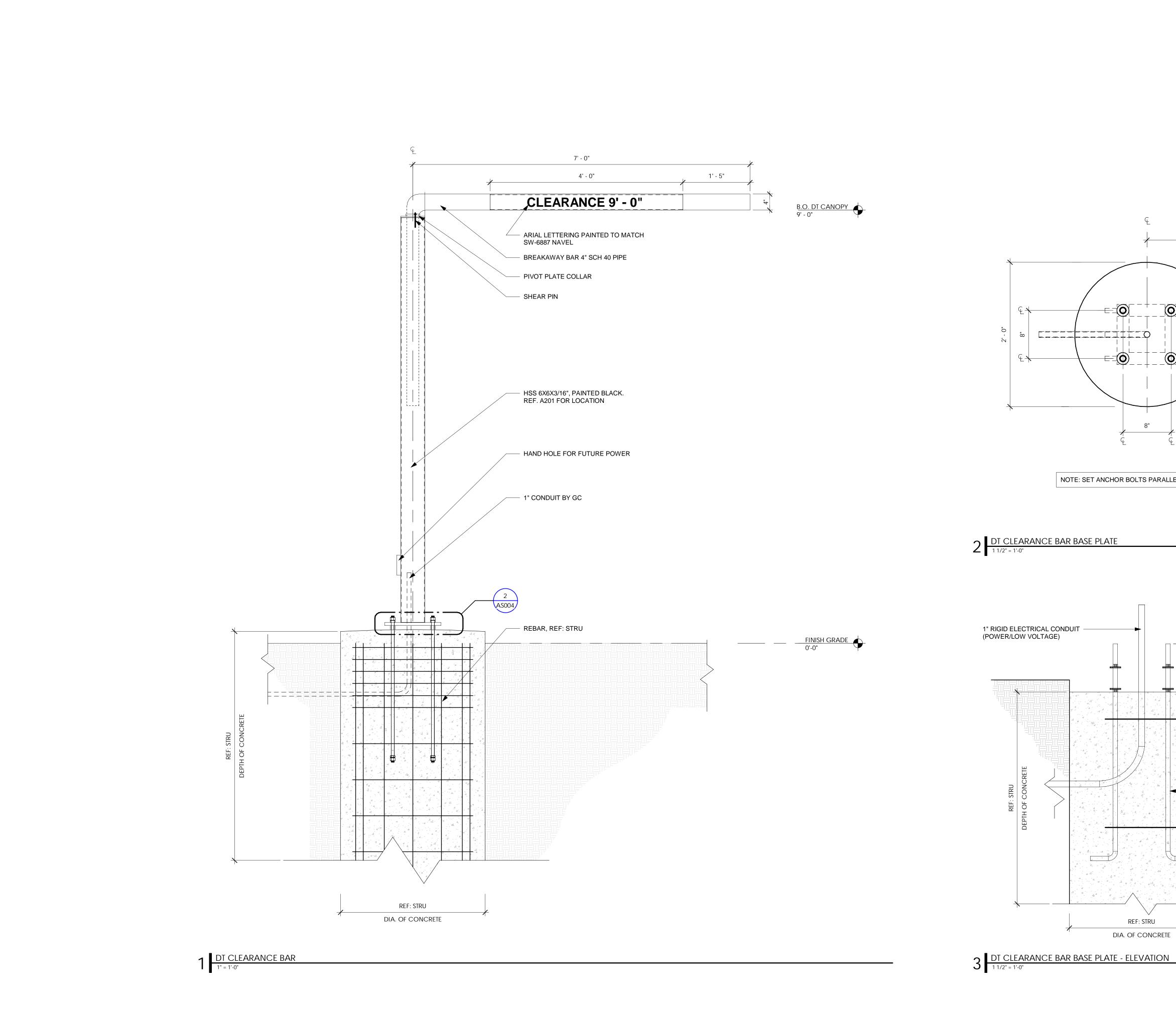
RELEASED FOR CONSTRUCTION As Noted on Plans Revie





RELEASED FOR CONSTRUCTION





2 DT CLEARANCE BAR BASE PLATE

CONSTRUCTION As Noted on Plans Review elopment Services De Lee's Summit, Missour 07/03/2024 GENERAL NOTES: 1. REFERENCE STRUCTURAL DRAWINGS FOR FOOTING SIZING AND DETAILS. 2. GC TO FOLLOW MANUFACTURERS WRITTEN INSTRUCTIONS FOR INSTALLATION OF ALL EQUIPMENT, FIXTURES, FURNISHINGS, FINISHES, ETC. 3. GC TO COORDINATE ALL SITE WORK WITH CIVIL DRAWINGS. 4. FINISH TO BE PAINTED BLACK. MATCH SW 6991 BLACK MAGIC. З O く \Box **HIPMAN RO** ഗ PROPO PROTOTYPE VERSION 2.00 1' - 4" MIN BACK OF CURB, REF: CIVIL 64086 #2001 = - +SUMMIT, MO \bigcirc NN 610 S Ш Щ 8" NOTE: SET ANCHOR BOLTS PARALLEL TO BACK OF CURB 513 MAIN STREET #300 FORT WORTH TX 76102 SEAL STEVEN COX NUMBER A-2023017238 PERMIT SET: 04/12/2024 - CURB, REF: CIVIL ╲╼ . 4 CONTRACTOR SHALL VERIFY ALL CONDITIONS AND DIMENSIONS AT THE JOB SITE AND NOTIFY THE ARCHITECT OF ANY DIMENSIONAL ERRORS, OMISSIONS OR DISCREPANCIES BEFORE BEGINNING OR FABRICATING ANY WORK. DO NOT SCALE DRAWINGS. ISSUE DATE DESCRIPTION 3/4" X 36" GALV. J-BOLT ANCHORS (4) PROJECT INFORMATION PROJECT NO: 24-0087 06/01/2023 AS NOTED ORIGINAL ISSUE: SCALE: DRAWN BY: V. PEREZ REF: STRU CHECKED BY: J. JEFFERY DIA. OF CONCRETE SHEET TITLE SITE DETAILS

SHEET NUMBER



RELEASED FOR

1 - GEN G1.	IERAL CODE: ALL MATERIALS AND WORKMANSHIP SHALL CONFORM TO THE PROVISIONS OF THE APPLICABLE BUILDING CODE OF
G2.	LATEST ADOPTION AND THE STANDARDS REFERENCED THEREIN. GENERAL DETAILS: ALL NOTES ON THESE SHEETS SHALL APPLY UNLESS SPECIFICALLY SHOWN OR NOTED OTHERWISE.
G3. G4.	CONSTRUCTION DETAILS NOT FULLY SHOWN OR NOTED SHALL BE SIMILAR TO DETAILS SHOWN FOR SIMILAR CONDITIONS. A WORK OR CONSTRUCTION SHALL COMPLY WITH ALL APPLICABLE BUILDING CODES, REGULATIONS AND SAFETY REQUIREME DISCREPANCIES: THE CONTRACTOR SHALL INFORM THE ENGINEER IN WRITING OF ANY DISCREPANCIES OR OMISSIONS NO ON THE DRAWINGS OR IN THE SPECIFICATIONS. UPON RECEIPT OF SUCH INFORMATION, THE ENGINEER WILL SEND WRITTE INSTRUCTIONS TO ALL CONCERNED. ANY SUCH DISCREPANCY, OMISSION, OR VARIATION NOT REPORTED SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR, AND WORK SHALL BE PERFORMED IN A MANNER AS DIRECTED BY THE ENGINEER. SHORING: THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR PROVIDING ADEQUATE SHORING, BRACING, AND FORM
G5.	PROPERLY DESIGNED UNDER THE SUPERVISION OF A LICENSED STRUCTURAL ENGINEER, AS REQUIRED FOR THE PROTECT OF LIFE AND PROPERTY DURING ALL PHASES OF CONSTRUCTION. BRACING: THESE DRAWINGS ILLUSTRATE THE PRIMARY STRUCTURAL SYSTEM IN ITS COMPLETED FORM. TEMPORARY BRA PROPERLY DESIGNED UNDER THE SUPERVISION OF A LICENSED STRUCTURAL ENGINEER, SHALL BE PROVIDED AS REQUIRE
G6.	HOLD ALL COMPONENTS OF THE STRUCTURE IN-PLACE UNTIL FINAL SUPPORT IS SECURELY ANCHORED. EXCAVATION: THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR ALL EXCAVATION PROCEDURES, INCLUDING LAGGIN SHORING, AND PROTECTION OF ADJACENT PROPERTY, STRUCTURES, STREETS AND UTILITIES IN ACCORDANCE WITH THE L BUILDING DEPARTMENT AND OSHA.
G7.	OTHER TRADES: SEE ARCHITECTURAL, ELECTRICAL, AND MECHANICAL DRAWINGS FOR SIZE AND LOCATION OF PIPE, VENT, AND OTHER OPENINGS AND DETAILS NOT SHOWN ON THESE STRUCTURAL DRAWINGS. ALL DIMENSIONS ARE TO BE CHECKE AND VERIFIED WITH THE ARCHITECTURAL DRAWINGS.
G8. G9.	WELDING: ALL WELDING SHALL BE PERFORMED BY WELDERS CERTIFIED FOR THE WELDS TO BE MADE. WELDING OF REINFORCING STEEL FOR USE IN STRUCTURAL CONCRETE OR STRUCTURAL MASONRY SHALL BE PERMITTED ONLY WHERE SPECIFICALLY DESIGNATED ON THESE PLANS OR WHERE SPECIFICALLY APPROVED BY THE ENGINEER. SAFETY: THE CONTRACTOR SHALL ADEQUATELY PROTECT HIS WORK, ADJACENT PROPERTY, AND THE PUBLIC, AND BE
G10.	RESPONSIBLE FOR DAMAGE OR INJURY DUE TO HIS ACT OR NEGLIGENCE. INSPECTIONS: ANY INSPECTIONS, SPECIAL OR OTHERWISE, THAT ARE REQUIRED BY THE BUILDING CODES, LOCAL BUILDING DEPARTMENTS, OR THESE PLANS, SHALL BE PERFORMED BY AN INDEPENDENT INSPECTION COMPANY. JOB SITE VISITS BY ENGINEER DO NOT CONSTITUTE OR SUBSTITUTE FOR THESE INSPECTIONS.
G11.	SHOP DRAWINGS: SHOP DRAWINGS ARE AN AID FOR FIELD PLACEMENT, AND ARE SUPERSEDED BY THE STRUCTURAL DRAWINGS. IT SHALL BE THE RESPONSIBILITY OF THE GENERAL CONTRACTOR TO MAKE CERTAIN THAT ALL CONSTRUCTION FULL AGREEMENT WITH THE LATEST STRUCTURAL DRAWINGS.
G12.	SHOP DRAWING CHECK: THE CONTRACTOR SHALL SUPPLY THE ENGINEER WITH CHECKED SHOP DRAWINGS BEARING THE CONTRACTOR'S STAMP OF APPROVAL A MINIMUM OF THREE WEEKS PRIOR TO FABRICATION. THE REVIEW OF SHOP DRAWIN BY THE ENGINEER IS ONLY FOR GENERAL COMPLIANCE WITH THE STRUCTURAL DRAWINGS AND SPECIFICATIONS. THIS REV DOES NOT GUARANTEE IN ANY WAY THAT THE SHOP DRAWINGS ARE CORRECT, COMPLETE, NOR DOES IT INFER THAT THEY SUPERSEDE THE STRUCTURAL DRAWINGS.
G13.	PRINCIPAL OPENINGS ARE SHOWN ON THE DRAWINGS. SEE ARCHITECTURAL, MECHANICAL, AND ELECTRICAL DRAWINGS FOR SLEEVES, CURBS, INSERTS AND OTHER OPENINGS NOT SHOWN. THE CONTRACTOR SHALL PROVIDE FOR ALL OPENINGS WHETHER SHOWN ON THE STRUCTURAL DRAWINGS OR NOT. SIZE AND LOCATION OF ALL OPENINGS SHALL BE VERIFIED W THE MECHANICAL CONTRACTOR. ANY DEVIATION FROM OPENINGS SHOWN ON THE STRUCTURAL DRAWINGS SHALL BE BRO TO THE ATTENTION OF THE ARCHITECT FOR APPROVAL PRIOR TO FABRICATION OR INSTALLATION OF STRUCTURAL MEMBE
G14. G15.	LOADINGS FOR MECHANICAL EQUIPMENT ARE BASED ON THE UNITS SHOWN ON THE STRUCTURAL DRAWINGS. ANY CHANGE TYPE, SIZE, OR NUMBER OF PIECES OF EQUIPMENT SHALL BE REPORTED TO THE ARCHITECT FOR VERIFICATION OF THE ADEQUACY OF SUPPORTING MEMBERS PRIOR TO THE PLACEMENT OF SUCH EQUIPMENT. THE CONTRACTOR SHALL ENSURE THAT CONSTRUCTION MATERIALS WHOSE WEIGHT EXCEEDS THE DESIGN LIVE LOADS
G16.	INDICATED ON THE STRUCTURAL DRAWINGS ARE NOT STORED ON STRUCTURALLY SUPPORTED FLOOR OR ROOF FRAMING. CONTRACTOR SHALL COORDINATE GRADES WITH CIVIL ENGINEER'S GRADING PLANS AND ARCHITECT'S PLANS.
2 - FOU F1.	INDATION FOUNDATION DESIGNS ARE BASED ON A NET ALLOWABLE BEARING PRESSURE OF 2,100 PSF FOR CONTINUOUS FOOTINGS BEARING ON PROPERLY COMPACTED STRUCTURAL FILL OR PROPERLY PREPARED EXISTING CLAY SOILS IN ACCORDANCE V
F2.	SOILS REPORT NO. 24-28620 DATED APRIL 11, 2024, PREPARED BY RONE ENGINEERING. CAPACITY SHALL BE VERIFIED BY AI INDEPENDENT TESTING AGENCY PRIOR TO CONCRETE PLACEMENT. THE CONTRACTOR MUST READ THE SOILS REPORT AND BE THOROUGHLY FAMILIAR WITH SITE AND SUBGRADE INFORMATIC
	GIVEN THEREIN. ALL SUBGRADE PREPARATION, FILL, FILL PLACEMENT, AND FOUNDATION CONSTRUCTION SHALL BE PERFORMED IN STRICT COMPLIANCE WITH THE STRUCTURAL DOCUMENTS AND THE SOILS REPORT, AND SHALL BE OBSERV TESTED, AND APPROVED BY A QUALIFIED GEOTECHNICAL ENGINEER PRIOR TO PROCEEDING.
F3. F4.	ALL FILL PLACEMENT SHALL BE IN STRICT ACCORDANCE WITH THE REQUIREMENTS OF THE SOILS REPORT. PRIOR TO FILL PLACEMENT, SCARIFY, MOISTURE-CONDITION, AND COMPACT THE EXPOSED GRADE AS DETAILED IN THE SOILS REPORT. THE FLOOR SLAB SHALL SUPPORTED BY 24 INCHES MINIMUM OF LOW VOLUME CHANGE STRUCTURAL FILL MEETING THE
F4.	REQUIREMENTS OF THE SOILS REPORT. IF EXISTING STRUCTURES, FOUNDATIONS, UTILITIES, UNDOCUMENTED FILL, ETC. ARE ENCOUNTERED, THEY SHALL BE REMO
F5.	AND THE RESULTING EXCAVATION DEEPENED AND WIDENED AS NECESSARY TO REMOVE UNSUITABLE MATERIALS. FOOTINGS SHALL BEAR AT OR BELOW MINIMUM BEARING DEPTH. MINIMUM BEARING DEPTH IS AT LEAST 12" BELOW ADJACI EXTERIOR FINISHED GRADE AND/OR FINISHED FLOOR ELEVATION, WHICHEVER IS LOWER. FOOTINGS SHALL NOT BEAR ON EXISTING FILL MATERIAL.
F6. F7.	FOOTING DIMENSIONS AND/OR LOCATIONS MAY NOT BE ALTERED WITHOUT APPROVAL OF THE ENGINEER OF RECORD. ALL FOOTING EXCAVATIONS SHALL BE NEAT, CLEAN AND SQUARE. IF EARTH-FORMING OF FOOTINGS CANNOT BE PERFORM THIS MANNER AND TO THE SATISFACTION OF THE AOR/EOR, CONVENTIONAL WOOD/STEEL FORMS SHALL BE PROVIDED AT I ADDITIONAL COST TO THE OWNER.
F8. F9.	THE FINAL BUILDING PAD SHALL BE APPROVED BY THE OWNERS' GEOTECHNICAL REPRESENTATIVE PRIOR TO POURING CONCRETE. HORIZONTAL BARS IN FOOTINGS AND STEM WALLS SHALL BE CONTINUOUS. PROVIDE CORNER BARS AT ALL CORNERS AND
F9.	INTERSECTIONS. REFERENCE TYPICAL CORNER BAR DETAIL. STANDARD PROCEDURES OF FROST PROTECTION FOR FOUNDATIONS AND EXCAVATIONS SHALL BE EMPLOYED FOR WINTE CONSTRUCTION. BACKFILLING OF EXCAVATIONS SHALL BE PERFORMED AS SOON AS POSSIBLE TO PROTECT FOUNDATIONS
F11.	FROM FROST. FOUNDATION PENETRATIONS SHALL BE SUBJECT TO APPROVAL BY THE ARCHITECT/ENGINEER.
SOG1.	B-ON-GRADE SLABS-ON-GRADE ARE REINFORCED CONCRETE. REFERENCE FOUNDATION PLAN FOR SIZE AND SPACING OF REINFORCEM
	SLABS-ON-GRADE SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE 'GUIDE FOR CONCRETE FLOOR AND SLAB CONSTRUCTION', ACI 302.1. THE FLOOR SLAB SHALL BEAR ON A 4-INCH THICK COMPACTED LAYER OF 3/4" CLEAN LIMESTONE OR AB-3, WITH VAPOR
SOG4.	RETARDER, OVER PROPERLY PREPARED AND COMPACTED LOW VOLUME CHANGE (LVC) MATERIAL. THE 4" LAYER MAY BE COUNTED AS PART OF THE LVC ZONE. REFER TO THE SOILS REPORT FOR ALL BUILDING PAD PREPARATION REQUIREMENTS THE FINAL BUILDING PAD SHALL BE APPROVED BY THE OWNERS' GEOTECHNICAL REPRESENTATIVE PRIOR TO POURING CONCRETE.
SOG5.	A VAPOR RETARDER MEETING THE REQUIREMENTS OF ASTM E-1745 CLASS A SHALLBE PLACED BELOW THE FLOOR SLAB. R TO THE FOUNDATION PLAN FOR RETARDER THICKNESS AND THE SOILS REPORT FOR LOCATION OF THE RETARDER BELOW SLAB.
	ANY STANDING WATER ON THE SURFACE OF THE VAPOR RETARDER SHALL BE REMOVED PRIOR TO CONCRETE PLACEMENT INSTALL AND INSPECT VAPOR RETARDER IN ACCORDANCE WITH ASTM E-1643 AND MANUFACTURER'S RECOMMENDATIONS. SECTIONS OF VAPOR RETARDER AND SEAL PENETRATIONS WITH MASTIC TAPE, LAPPING JOINTS A MINIMUM OF 6". SEAL AL PUNCTURES AND TEARS IN MEMBRANE AND SEAL AROUND ALL PIPE PENETRATIONS. TURN VAPOR RETARDER DOWN AT PERIMETER WALLS AND SEAL TO WALL. ENSURE ALL SURFACES TO RECEIVE MASTIC OR MASTIC TAPE ARE CLEAN AND DR'
	PROVIDE SAW CUT JOINTS AT A MAXIMUM SPACING OF 12'-0" OC EACH WAY UNLESS NOTED OTHERWISE ON THE CONTRACT DRAWINGS.
	PROVIDE (2) #4 x 2'-0" BARS PLACED 1 1/2" BELOW TOP OF SLAB AND LOCATED DIAGONALLY AT SLAB RE-ENTRANT CORNERS REFERENCE TYPICAL RE-ENTRANT CORNER BAR DETAIL. INTERIOR FLOOR SLABS-ON-GRADE SHALL BE CONSTRUCTED WITH AN OVERALL FLATNESS AND LEVELNESS VALUE OF FF= AND FL=25, AND A MINIMUM LOCAL VALUE OF FF=24 AND LL=17. REFER TO ACI 117 AND ASTM E-1155.
4 - CON C1.	ICRETE AND REINFORCING STEEL ALL CONCRETE SHALL BE LABORATORY TESTED AND CONTROLLED AND MEET THE REQUIREMENTS OF ACI 318. UNLESS NO OTHERWISE, ALL CONCRETE SHALL MEET THE FOLLOWING REQUIREMENTS: INTERIOR SLABS-ON-GRADE AND FOOTINGS - 28 DAY STRENGTH = 4,000 PSI, SLUMP = 3" - 5", MAX W/C RATIO = 0.50, MAX
C2.	AGGREGATE SIZE = 3/4", ACI EXPOSURE CLASS = F0. PORTLAND CEMENT SHALL CONFORM TO ASTM C-150, TYPE I OR II.
C3. C4.	AGGREGATE SHALL CONFORM TO ASTM C-33 H.R. AND BE FROM A SINGLE SOURCE. THE CONTRACTOR SHALL SUBMIT CONCRETE MIX DESIGNS FOR REVIEW A MINIMUM OF TWO WEEKS PRIOR THE FIRST CON POUR.
C5.	REFER TO ACI 318 FOR CONCRETE COVER, ACI 315 FOR DETAILING PRACTICES AND FABRICATION, AND ACI 301 FOR STAND/ PRACTICE FOR MIXING AND PLACING CONCRETE.
C6. C7. C8.	REINFORCING STEEL SHALL MEET ASTM SPECIFICATION A-615, LATEST REVISION. BARS SHALL BE GRADE 60. DETAILING OF CONCRETE REINFORCEMENT AND ACCESSORIES SHALL CONFORM TO ACI 315. SPLICE REINFORCING BARS AS INDICATED ON DRAWINGS. PROVIDE STANDARD ACI HOOK FOR CONTINUOUS BARS AT DISCONTINUOUS ENDS.
5 - CON	ICRETE MASONRY UNITS
M1.	ALL MASONRY WORK SHALL CONFORM TO BUILDING CODE REQUIREMENTS FOR MASONRY STRUCTURES (ACI 530/ASCE 5) A SPECIFICATIONS FOR MASONRY STRUCTURES (ACI 530.1/ASCE 6).
M2. M3.	CONCRETE MASONRY UNITS SHALL MEET ASTM SPECIFICATION C 90. THE SPECIFIED DESIGN COMPRESSIVE STRENGTH OF CONCRETE MASONRY (fm) SHALL BE 1,500 PSI AND A 2,000 PSI NET AREA COMPRESSIVE STRENGTH CONCRETE MASONRY UNITS SHALL BE 1,500 PSI AND A 2,000 PSI NET AREA COMPRESSIVE STRENGTH CONCRETE MASONRY UNITS SHALL BE 1,500 PSI AND A 2,000 PSI NET AREA COMPRESSIVE STRENGTH CONCRETE MASONRY UNITS SHALL BE 1,500 PSI AND A 2,000 PSI NET AREA COMPRESSIVE STRENGTH CONCRETE MASONRY UNITS SHALL BE 1,500 PSI AND A 2,000 PSI NET AREA COMPRESSIVE STRENGTH CONCRETE MASONRY UNITS SHALL BE 1,500 PSI AND A 2,000 PSI NET AREA COMPRESSIVE STRENGTH CONCRETE MASONRY UNITS SHALL BE 1,500 PSI AND A 2,000 PSI NET AREA COMPRESSIVE STRENGTH CONCRETE MASONRY UNITS SHALL BE 1,500 PSI AND A 2,000 PSI NET AREA COMPRESSIVE STRENGTH CONCRETE MASONRY UNITS SHALL NOT BE ASTM COMPARIS SHALL MEET THE PROPERTY SPECIFICATIONS OF ASTM C 270 TYPE "S" MORTAR. MASONRY CEMENT SHALL NOT BE
M4.	USED FOR MORTAR. MASONRY CEMENT SPECIFICATIONS OF ASTMIC 270 TYPE 'S MORTAR. MASONRY CEMENT SHALL NOT BI USED FOR MORTAR. GROUT SHALL MEET ASTM SPECIFICATION C 476 AND HAVE A MINIMUM 28 DAY COMPRESSIVE STRENGTH OF 2,000 PSI.
M5. M6.	GROUT SHALL BE MECHANICALLY CONSOLIDATED USING A VIBRATOR WITH A MAXIMUM 3/4" DIAMETER HEAD. CONCRETE MASONRY SHALL BE LAID IN RUNNING (COMMON) BOND.
M7.	ALL HORIZONTAL JOINT REINFORCEMENT SHALL BE HOT-DIPPED GALVANIZED 9 GAGE WIRE REINFORCEMENT (LADDER TYP EMBEDDED IN MORTAR JOINTS AT 16" O.C. JOINT REINFORCEMENT SHALL COMPLY WITH ASTM A 951 AND SHALL BE LAPPED WITH AT LEAST ONE CROSS WIRE WITHIN LAP. USE OPEN KNOCK OUT BOND BEAM BLOCK. DO NOT USE TROUGH TYPE BLO EOR BOND BEAMS DO NOT CONTINUE BOND BEAM BEINEORCING THROUGH CONTROL JOINTS LIND

GENERAL NOTES	GENERAL NOTES	
ERAL CODE: ALL MATERIALS AND WORKMANSHIP SHALL CONFORM TO THE PROVISIONS OF THE APPLICABLE BUILDING CODE OF	6 - STRUCTURAL STEEL S1. STRUCTURAL STEEL SHALL BE NEW AND CONFORM TO AISC 'SPECIFICATION FOR THE DESIGN, FABRICATION AND ERECTION OF	WT12. MAXIMUM LIVE LOAD DEI BALCONY, AND BREEZEV
LATEST ADOPTION AND THE STANDARDS REFERENCED THEREIN. GENERAL DETAILS: ALL NOTES ON THESE SHEETS SHALL APPLY UNLESS SPECIFICALLY SHOWN OR NOTED OTHERWISE.	STRUCTURAL STEEL FOR BUILDINGS', LATEST APPROVED EDITION. S2. ALL STEEL SHALL MEET THE FOLLOWING MINIMUM YIELD STRENGTHS AND SPECIFICATIONS:	WT13. THE TRUSS MANUFACTU ALL GRAVITY, WIND LOAI
CONSTRUCTION DETAILS NOT FULLY SHOWN OR NOTED SHALL BE SIMILAR TO DETAILS SHOWN FOR SIMILAR CONDITIONS. ALL WORK OR CONSTRUCTION SHALL COMPLY WITH ALL APPLICABLE BUILDING CODES, REGULATIONS AND SAFETY REQUIREMENTS.	WIDE FLANGE STEEL SHAPES, A99250 KSI	WT14. ALL TRUSS-TO-TRUSS AN WT15. ALL TRUSS REPAIRS MAI
DISCREPANCIES: THE CONTRACTOR SHALL INFORM THE ENGINEER IN WRITING OF ANY DISCREPANCIES OR OMISSIONS NOTED ON THE DRAWINGS OR IN THE SPECIFICATIONS. UPON RECEIPT OF SUCH INFORMATION, THE ENGINEER WILL SEND WRITTEN	HOLLOW STRUCTURAL SECTIONS (HSS), SQUARE AND RECTANGULAR, A500 GRADE C50 KSI HOLLOW STRUCTURAL SECTIONS (HSS), ROUND, A500 GRADE C46 KSI	REPAIR SHALL BE REQUI
INSTRUCTIONS TO ALL CONCERNED. ANY SUCH DISCREPANCY, OMISSION, OR VARIATION NOT REPORTED SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR, AND WORK SHALL BE PERFORMED IN A MANNER AS DIRECTED BY THE ENGINEER.	CHANNELS, ANGLES, BARS AND PLATES, A36	RECOMMENDATIONS OF WT17. FIELD NOTCHING OR CU
SHORING: THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR PROVIDING ADEQUATE SHORING, BRACING, AND FORMWORK, PROPERLY DESIGNED UNDER THE SUPERVISION OF A LICENSED STRUCTURAL ENGINEER, AS REQUIRED FOR THE PROTECTION	BOLTS (HEAVY-HEX), A32592 KSI NUTS (HEAVY-HEX), A563	URECTION OF THE TRUS
OF LIFE AND PROPERTY DURING ALL PHASES OF CONSTRUCTION. BRACING: THESE DRAWINGS ILLUSTRATE THE PRIMARY STRUCTURAL SYSTEM IN ITS COMPLETED FORM. TEMPORARY BRACING,	WASHERS, HARDENED, F436 WASHERS, PLAIN, F844	DRAWINGS. WT19. REFER TO STANDARD PE
PROPERLY DESIGNED UNDER THE SUPERVISION OF A LICENSED STRUCTURAL ENGINEER, SHALL BE PROVIDED AS REQUIRED TO HOLD ALL COMPONENTS OF THE STRUCTURE IN-PLACE UNTIL FINAL SUPPORT IS SECURELY ANCHORED.	ANCHOR BOLTS AND RODS, F1554, GRADE 36	WT20. FINGER JOINTED MATER
EXCAVATION: THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR ALL EXCAVATION PROCEDURES, INCLUDING LAGGING, SHORING, AND PROTECTION OF ADJACENT PROPERTY, STRUCTURES, STREETS AND UTILITIES IN ACCORDANCE WITH THE LOCAL	 BOLTS FOR STEEL BEAM AND COLOMIC CONNECTIONS SHALL BE 3/4 DIAMETER ASTM A 325-N HIGH-STRENGTH BOLTS, ONO. ALL BOLTED CONNECTIONS ARE BEARING TYPE. ALL BOLTS SHALL BE TIGHTENED SNUG TIGHT, UNO. S4. PROVIDE HARDENED WASHERS FOR ALL HIGH STRENGTH BOLTS, UNO. 	WT21. THE DESIGN, MATERIAL A STRICTER OF THE FOLLO
BUILDING DEPARTMENT AND OSHA. OTHER TRADES: SEE ARCHITECTURAL, ELECTRICAL, AND MECHANICAL DRAWINGS FOR SIZE AND LOCATION OF PIPE, VENT, DUCT	 PROVIDE HARDENED WASHERS FOR ALL HIGH STRENGTH BOETS, ONO. S5. PROVIDE DOUBLE NUTS AND DOUBLE WASHERS FOR STEEL COLUMN ANCHOR BOLTS TO ALLOW FOR ADJUSTMENT IN BASE PLATE ELEVATION. PROVIDE HIGH STRENGTH, NON-SHRINK, NON-METALLIC GROUT BELOW BASE PLATES. 	A. TRUSS PLATE INSTITU B. THE REFERENCE BUIL
AND OTHER OPENINGS AND DETAILS NOT SHOWN ON THESE STRUCTURAL DRAWINGS. ALL DIMENSIONS ARE TO BE CHECKED AND VERIFIED WITH THE ARCHITECTURAL DRAWINGS.	S6. THE FABRICATOR SHALL BE RESPONSIBLE FOR THE DESIGN AND ADEQUACY OF CONNECTIONS THAT ARE NOT DESIGNED OR FULLY DETAILED ON THE CONTRACT DOCUMENTS.	10 - WOOD PROPERTIES
WELDING: ALL WELDING SHALL BE PERFORMED BY WELDERS CERTIFIED FOR THE WELDS TO BE MADE. WELDING OF REINFORCING STEEL FOR USE IN STRUCTURAL CONCRETE OR STRUCTURAL MASONRY SHALL BE PERMITTED ONLY WHERE	S7. STEEL MEMBERS SHALL NOT BE SPLICED EXCEPT WHERE SHOWN ON THE DRAWINGS, UNLESS APPROVED BY THE ENGINEER.	ALL DIMENSIONAL LUMB GRADE NO. 1 OR SELECT
SPECIFICALLY DESIGNATED ON THESE PLANS OR WHERE SPECIFICALLY APPROVED BY THE ENGINEER. SAFETY: THE CONTRACTOR SHALL ADEQUATELY PROTECT HIS WORK, ADJACENT PROPERTY, AND THE PUBLIC, AND BE	S8.WELDING SHALL MEET ANSI/AWS D1.1 STRUCTURAL WELDING CODE. ELECTRODES SHALL BE 70 KSI LOW HYDROGEN.S9.HOT DIP GALVANIZE ALL STRUCTURAL STEEL EXPOSED TO WEATHER.	WP1. DIMENSIONAL LUMBER: A. BASE DESIGN VALUES
RESPONSIBLE FOR DAMAGE OR INJURY DUE TO HIS ACT OR NEGLIGENCE. INSPECTIONS: ANY INSPECTIONS, SPECIAL OR OTHERWISE, THAT ARE REQUIRED BY THE BUILDING CODES, LOCAL BUILDING	S10. ALL STRUCTURAL STEEL, EXCEPT EMBEDDED OR GALVANIZED ITEMS, SHALL BE PAINTED WITH ONE SHOP COAT OF RUST INHIBITIVE PAINT.	1. DFL NO. 2 - BEAMS, JC Fb = 900 psi
DEPARTMENTS, OR THESE PLANS, SHALL BE PERFORMED BY AN INDEPENDENT INSPECTION COMPANY. JOB SITE VISITS BY THE ENGINEER DO NOT CONSTITUTE OR SUBSTITUTE FOR THESE INSPECTIONS.	7 - WOOD SHEATHING	Fv = 180 psi E = 1,600,000 psi
SHOP DRAWINGS: SHOP DRAWINGS ARE AN AID FOR FIELD PLACEMENT, AND ARE SUPERSEDED BY THE STRUCTURAL DRAWINGS. IT SHALL BE THE RESPONSIBILITY OF THE GENERAL CONTRACTOR TO MAKE CERTAIN THAT ALL CONSTRUCTION IS IN FULL AGREEMENT WITH THE LATEST STRUCTURAL DRAWINGS.	WS1. ROOF SHEATHING SHALL BE 19/32" THICK EXPOSURE I RATED PANEL (PLYWOOD OR OSB) WITH MINIMUM SPAN INDEX 40/20. BLOCKING OF UNSUPPORTED EDGES SHALL NOT BE REQUIRED, UNO. H-CLIPS SHALL BE USED TO SUPPORT EDGES OF THE	Fc parallel = 1,350 psi Fc perp = 625 psi
SHOP DRAWING CHECK: THE CONTRACTOR SHALL SUPPLY THE ENGINEER WITH CHECKED SHOP DRAWINGS BEARING THE CONTRACTOR'S STAMP OF APPROVAL A MINIMUM OF THREE WEEKS PRIOR TO FABRICATION. THE REVIEW OF SHOP DRAWINGS	PLYWOOD SHEATHING BETWEEN THE JOISTS. WS2. MINIMUM ROOF DIAPHRAGM NAILING SHALL BE AS INDICATED IN THE TYPICAL ROOF SHEATHING FASTENING DIAGRAM.	Ft = 575 psi
BY THE ENGINEER IS ONLY FOR GENERAL COMPLIANCE WITH THE STRUCTURAL DRAWINGS AND SPECIFICATIONS. THIS REVIEW DOES NOT GUARANTEE IN ANY WAY THAT THE SHOP DRAWINGS ARE CORRECT, COMPLETE, NOR DOES IT INFER THAT THEY	WS3. LAY ROOF PANELS WITH FACE GRAIN PERPENDICULAR TO FRAMING AS INDICATED IN THE PLANS. WS4. EXTERIOR WALL SHEATHING SHALL BE MINIMUM 15/32" THICK EXPOSURE I RATED PANEL (PLYWOOD OR OSB) WITH MINIMUM	2. SYP NO. 2 - BEAMS, JO Fb = 1,100 psi
SUPERSEDE THE STRUCTURAL DRAWINGS. PRINCIPAL OPENINGS ARE SHOWN ON THE DRAWINGS. SEE ARCHITECTURAL. MECHANICAL. AND ELECTRICAL DRAWINGS FOR	SPAN RATING OF 32/16. WOOD PANELS SHALL CONFORM TO DOC PS-1 AND PS-2. WS5. EXTERIOR SHEAR WALL SHEATHING SHALL BE AS INDICATED IN THE SHEAR WALL SCHEDULE. REF ARCH FOR ALL OTHER WALL	Fv = 175 psi E = 1,400,000 psi
SLEEVES, CURBS, INSERTS AND OTHER OPENINGS NOT SHOWN. THE CONTRACTOR SHALL PROVIDE FOR ALL OPENINGS WHETHER SHOWN ON THE STRUCTURAL DRAWINGS OR NOT. SIZE AND LOCATION OF ALL OPENINGS SHALL BE VERIFIED WITH	SHEATHING. WS6. ALL SHEATHING PANEL EDGES AT SHEAR WALL LOCATIONS SHALL BE BLOCKED AS INDICATED IN THE SHEAR WALL SCHEDULE.	Fc parallel = 1,450 psi Fc perp = 565 psi
THE MECHANICAL CONTRACTOR. ANY DEVIATION FROM OPENINGS SHOWN ON THE STRUCTURAL DRAWINGS SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT FOR APPROVAL PRIOR TO FABRICATION OR INSTALLATION OF STRUCTURAL MEMBERS.	WS7. REFER TO THE SHEAR WALL SCHEDULE FOR REQUIRED ATTACHMENT AT EXTERIOR SHEAR WALLS. WHERE EXTERIOR WALLS ARE NOT CLASSIFIED AS SHEAR WALLS, MINIMUM EXTERIOR WALL SHEATHING ATTACHMENT SHALL BE 8d NAILS SPACED AT 6"	Ft = 675 psi
LOADINGS FOR MECHANICAL EQUIPMENT ARE BASED ON THE UNITS SHOWN ON THE STRUCTURAL DRAWINGS. ANY CHANGES IN TYPE, SIZE, OR NUMBER OF PIECES OF EQUIPMENT SHALL BE REPORTED TO THE ARCHITECT FOR VERIFICATION OF THE	ALONG PANEL EDGES AND AT 12" IN THE FIELD.	11 - POWDER ACTUATED FASTER PAF1. POWDER ACTUATED FAS
ADEQUACY OF SUPPORTING MEMBERS PRIOR TO THE PLACEMENT OF SUCH EQUIPMENT. THE CONTRACTOR SHALL ENSURE THAT CONSTRUCTION MATERIALS WHOSE WEIGHT EXCEEDS THE DESIGN LIVE LOADS	8 - WOOD FRAMING W1. ALL ROUGH CARPENTRY SHALL PRODUCE JOINTS TRUE AND TIGHT AND WELL NAILED WITH MEMBERS ASSEMBLED IN	CORROSION-RESISTANT PERFORMANCE CRITERI
INDICATED ON THE STRUCTURAL DRAWINGS ARE NOT STORED ON STRUCTURALLY SUPPORTED FLOOR OR ROOF FRAMING. CONTRACTOR SHALL COORDINATE GRADES WITH CIVIL ENGINEER'S GRADING PLANS AND ARCHITECT'S PLANS.	ACCORDANCE WITH THE DRAWINGS AND WITH ALL PERTINENT BUILDING CODES. THE SHIMMING OF SILLS, JOISTS, SHORT STUDS, TRIMMERS, HEADERS, OR OTHER FRAMING MEMBERS SHALL NOT BE PERMITTED. ALL WALLS AND PARTITIONS SHALL BE STRAIGHT, PLUMB, AND ACCURATELY LOCATED. CAREFULLY SELECT ALL STRUCTURAL MEMBERS. INDIVIDUAL PIECES SHALL BE	PAF2. FASTENERS SHALL BE M A ZINC COATING.
NDATION	SELECTED SO THAT KNOTS AND OBVIOUS MINOR DEFECTS WILL NOT BE INTERFERE WITH THE PLACING OF BOLTS, OR PROPER NAILING, OR THE MAKING OF THE SOUND CONNECTION. LUMBER MAY BE REJECTED BY THE ENGINEER OR ARCHITECT FOR	PAF3. POWDER ACTUATED FAS BY HILTI, SIMPSON STRO
FOUNDATION DESIGNS ARE BASED ON A NET ALLOWABLE BEARING PRESSURE OF 2,100 PSF FOR CONTINUOUS FOOTINGS BEARING ON PROPERLY COMPACTED STRUCTURAL FILL OR PROPERLY PREPARED EXISTING CLAY SOILS IN ACCORDANCE WITH SOILS REPORT NO. 24-28620 DATED APRIL 11, 2024, PREPARED BY RONE ENGINEERING. CAPACITY SHALL BE VERIFIED BY AN	EXCESSIVE WARP, TWIST, BOW OR CROOK, MILDEW, FUNGUS OR MOLD AS WELL AS IMPROPER GRADE MARKING. DEFECTS WHICH RENDER A PIECE UNABLE TO SERVE ITS INTENDED FUNCTION SHALL BE DISCARDED.	FROM ONLY ONE MANUF PAF4. ALL POWDER ACTUATED
INDEPENDENT TESTING AGENCY PRIOR TO CONCRETE PLACEMENT. THE CONTRACTOR MUST READ THE SOILS REPORT AND BE THOROUGHLY FAMILIAR WITH SITE AND SUBGRADE INFORMATION	W2. EACH PIECE OF STRUCTURAL LUMBER, SHEATHING, AND TIMBER SHALL BE RATED AND MARKED WITH THE GRADE BY SUCH COMPETENT AND RELIABLE ORGANIZATION WHOSE REGULAR BUSINESS IS TO ESTABLISH LUMBER GRADES. THE ORGANIZATION,	RECOMMENDATIONS. PAF5. POWDER ACTUATED FAS
GIVEN THEREIN. ALL SUBGRADE PREPARATION, FILL, FILL PLACEMENT, AND FOUNDATION CONSTRUCTION SHALL BE PERFORMED IN STRICT COMPLIANCE WITH THE STRUCTURAL DOCUMENTS AND THE SOILS REPORT, AND SHALL BE OBSERVED,	GRADING AND MARKING SUBJECTED TO APPROVAL BY THE ENGINEER. W3. ALL LUMBER, EXCEPT WHERE SPECIFICALLY NOTED OTHERWISE, SHALL BE MILL SIZED AND SURFACED ON 4 SIDES. ALL SHALL BE	A. POWDER ACTUATED I PRE-APPROVED POWDE
TESTED, AND APPROVED BY A QUALIFIED GEOTECHNICAL ENGINEER PRIOR TO PROCEEDING. ALL FILL PLACEMENT SHALL BE IN STRICT ACCORDANCE WITH THE REQUIREMENTS OF THE SOILS REPORT. PRIOR TO FILL	 STRAIGHT STOCK, FREE FROM WARP OR CUP, AND SINGLE LENGTH PIECES. W4. BUILDING PAPER: SHALL BE THE STANDARD PRODUCT OF A MAJOR MANUFACTURER, SUITABLE FOR THE USES INTENDED, AND WEIGHING AT LEAST 14 POUNDS PER 100 SQUARE FEET. 	1. HILTI UNIVERSAL S 2. HILTI SMOOTH SHA
PLACEMENT, SCARIFY, MOISTURE-CONDITION, AND COMPACT THE EXPOSED GRADE AS DETAILED IN THE SOILS REPORT. THE FLOOR SLAB SHALL SUPPORTED BY 24 INCHES MINIMUM OF LOW VOLUME CHANGE STRUCTURAL FILL MEETING THE	WEIGHING AT LEAST 14 FOUNDS FER 100 SQUARE FEET. W5. ROUGH HARDWARE: JOIST HANGERS, STRAPS, HOLD DOWNS, ETC., SHALL BE AS MANUFACTURED BY SIMPSON COMPANY OR APPROVED EQUIVALENT. THE MAXIMUM SIZE AND NUMBER OF FASTENERS SPECIFIED BY THE MANUFACTURER SHALL BE USED	3. SIMPSON STRONG 4. DEWALT/POWERS
REQUIREMENTS OF THE SOILS REPORT. IF EXISTING STRUCTURES, FOUNDATIONS, UTILITIES, UNDOCUMENTED FILL, ETC. ARE ENCOUNTERED, THEY SHALL BE REMOVED	UNLESS NOTED OTHERWISE. W6. INSTALL ALL BLOCKING AS REQUIRED TO SUPPORT ALL ITEMS OF FINISH SUCH AS BULK HEADS AND DOOR BUCKS. PROVIDE FIRE	B. UNLESS NOTED ON TI OF 0.157" AND BE OF SUF PAF6. POWDER ACTUATED FAS
AND THE RESULTING EXCAVATION DEEPENED AND WIDENED AS NECESSARY TO REMOVE UNSUITABLE MATERIALS. FOOTINGS SHALL BEAR AT OR BELOW MINIMUM BEARING DEPTH. MINIMUM BEARING DEPTH IS AT LEAST 12" BELOW ADJACENT EXTERIOR FINISHED GRADE AND/OR FINISHED FLOOR ELEVATION, WHICHEVER IS LOWER. FOOTINGS SHALL NOT BEAR ON	BLOCKING TO CUT OFF ALL CONCEALED DRAFT OPENINGS, BOTH VERTICAL AND HORIZONTAL BETWEEN CEILING AND FLOOR AREAS. VERIFY ALL REQUIRED BLOCKING WITH LOCAL BUILDING OFFICIAL.	A. POWDER ACTUATED FAC PRE-APPROVED POWDER
EXISTING FILL MATERIAL. FOOTING DIMENSIONS AND/OR LOCATIONS MAY NOT BE ALTERED WITHOUT APPROVAL OF THE ENGINEER OF RECORD.	W7. BOLTS SHALL BE INSTALLED IN HOLES BORED WITH A BIT 1/16" LARGER THAN THE DIAMETER OF THE BOLT. BOLTS AND NUTS SEATING ON WOOD SHALL HAVE CUT STEEL WASHERS UNDER HEADS AND NUTS. NUTS SHALL BE PULLED TIGHT AND AGAIN	1. HILTI UNIVERSAL S 2. HILTI UNIVERSAL S
ALL FOOTING EXCAVATIONS SHALL BE NEAT, CLEAN AND SQUARE. IF EARTH-FORMING OF FOOTINGS CANNOT BE PERFORMED IN THIS MANNER AND TO THE SATISFACTION OF THE AOR/EOR, CONVENTIONAL WOOD/STEEL FORMS SHALL BE PROVIDED AT NO	CHECKED TIGHTENED JUST PRIOR TO ENCLOSING BOLTED MEMBERS. COUNTER BORE FOR BOLTED HEADS OR NUTS ONLY WHERE SO INDICATED ON THE DRAWINGS, AND THEN ONLY TO SUFFICIENT DEPTH TO HOUSE THE BOLT OR HEAD OR NUT AND WASHER. CUT OFF EXCESSIVE PROJECTIONS WHERE NECESSARY. NICK THREADS TO PREVENT LOOSENING.	3. SIMPSON STRONG 4. DEWALT/POWERS
ADDITIONAL COST TO THE OWNER. THE FINAL BUILDING PAD SHALL BE APPROVED BY THE OWNERS' GEOTECHNICAL REPRESENTATIVE PRIOR TO POURING	 W8. LAG SCREWS SHALL BE SCREWED AND NOT DRIVEN INTO PLACED. LAG SCREWS FASTENING ONE WOOD MEMBER TO ANOTHER SHALL HAVE A PENETRATION INTO FAR MEMBER OF NOT LESS THAN 2/3 OF THE LENGTH OF THE LAG SCREW MEASURED UNDER 	B. UNLESS NOTED ON TI 0.157" AND BE OF SUFFIC
CONCRETE. HORIZONTAL BARS IN FOOTINGS AND STEM WALLS SHALL BE CONTINUOUS. PROVIDE CORNER BARS AT ALL CORNERS AND	THE HEAD. IN PLACING LAG SCREWS IN WOOD, A HOLE SHALL FIRST BE BORED OF THE SAME DIAMETER AND DEPTH OF THE SHANK OF THE SCREW, AFTER WHICH THE HOLE SHALL BE CONTINUED TO A DEPTH EQUAL TO THE LENGTH OF THE LAG SCREW	12 - POST-INSTALLED ANCHORS
INTERSECTIONS. REFERENCE TYPICAL CORNER BAR DETAIL. STANDARD PROCEDURES OF FROST PROTECTION FOR FOUNDATIONS AND EXCAVATIONS SHALL BE EMPLOYED FOR WINTER	WITH A DIAMETER EQUAL TO THE DIAMETER OF THE SCREW AT THE ROOT OF THE THREAD. W9. COMMON NAILS SHALL BE USED WHEN NAILING IS SPECIFIED ON THESE PLANS, SUCH AS AT SHEAR WALLS AND DIAPHRAGMS.	A1. POST-INSTALLED ANCHO SHALL OBTAIN APPROVA
CONSTRUCTION. BACKFILLING OF EXCAVATIONS SHALL BE PERFORMED AS SOON AS POSSIBLE TO PROTECT FOUNDATIONS FROM FROST. FOUNDATION PENETRATIONS SHALL BE SUBJECT TO APPROVAL BY THE ARCHITECT/ENGINEER.	ALL OTHER NAILING SHALL BE SUBMITTED TO THE ENGINEER WITH APPROPRIATE TESTING CERTIFICATION PRIOR TO CONSTRUCTION FOR APPROVAL. COMMON NAIL SIZES ARE AS FOLLOWS: - 6d – 2" x 0.113" DIAMETER	MISSING OR MISPLACED CONFLICTS WITH EXISTI
	- 8d – 2 1/2" x 0.131" DIAMETER	WRITTEN INSTRUCTIONS SUBMITTED BY THE CON SEALED BY A REGISTER
3-ON-GRADE SLABS-ON-GRADE ARE REINFORCED CONCRETE. REFERENCE FOUNDATION PLAN FOR SIZE AND SPACING OF REINFORCEMENT.	- 10d – 3" x 0.148" DIAMETER - 12d – 3 1/4" x 0.148" DIAMETER	PRODUCT IS CAPABLE O PRODUCT USING THE AP
SLABS-ON-GRADE SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE 'GUIDE FOR CONCRETE FLOOR AND SLAB CONSTRUCTION', ACI 302.1. THE FLOOR SLAB SHALL BEAR ON A 4-INCH THICK COMPACTED LAYER OF 3/4" CLEAN LIMESTONE OR AB-3, WITH VAPOR	- 16d – 3 1/2" x 0.162" DIAMETER - 20d – 4" x 0.192" DIAMETER	MANUFACTURE'S REPRE QUESTIONS AND AVAILA
RETARDER, OVER PROPERLY PREPARED AND COMPACTED LOW VOLUME CHANGE (LVC) MATERIAL. THE 4" LAYER MAY BE COUNTED AS PART OF THE LVC ZONE. REFER TO THE SOILS REPORT FOR ALL BUILDING PAD PREPARATION REQUIREMENTS.	W10. ALL MEMBER SIZES GIVEN IN THE DRAWINGS ARE NOMINAL DIMENSIONS.W11. HEADERS SHALL BEAR FULLY ON JACK STUDS.	A2. POST-INSTALLED CONCF HILTI, SIMPSON STRONG
THE FINAL BUILDING PAD SHALL BE APPROVED BY THE OWNERS' GEOTECHNICAL REPRESENTATIVE PRIOR TO POURING CONCRETE.	W12. WOOD JOISTS SHALL BEAR ON THE FULL WIDTH OF SUPPORTING MEMBERS (STUD WALLS, BEAMS, ETC.) UNLESS OTHERWISE NOTED.	ANCHORS FROM ONLY C A3. ALL POST-INSTALLED BC
A VAPOR RETARDER MEETING THE REQUIREMENTS OF ASTM E-1745 CLASS A SHALLBE PLACED BELOW THE FLOOR SLAB. REFER TO THE FOUNDATION PLAN FOR RETARDER THICKNESS AND THE SOILS REPORT FOR LOCATION OF THE RETARDER BELOW THE	W13. BOTTOM PLATES OF ALL GROUND FLOOR STUD WALLS IN CONTACT WITH CONCRETE SHALL BE PRESSURE TREATED IMPREGNATED WITH WATERBORNE PRESERVATIVE IN ACCORDANCE WITH THE AMERICAN WOOD PRESERVATIVE BUREAU (AWPB) STANDARD LP-2, OF LATEST ADOPTION.	A4. CONSTRUCTION OF POS EMBEDMENT AND INSTAL A5. CONCRETE ANCHORS:
SLAB. ANY STANDING WATER ON THE SURFACE OF THE VAPOR RETARDER SHALL BE REMOVED PRIOR TO CONCRETE PLACEMENT.	W14. BOTTOM PLATES AT CONCRETE SLABS SHALL BE ATTACHED WITH GALV 1/2" DIA SIMPSON TITEN HD (Hnom=5") AT 24" OC, REFER TO SHEAR WALL AND TYPICAL DETAILS.	AS. CONCRETE ANCHORS. A. MECHANICAL ANCHOR AC193 FOR CRACKED AN
INSTALL AND INSPECT VAPOR RETARDER IN ACCORDANCE WITH ASTM E-1643 AND MANUFACTURER'S RECOMMENDATIONS. JOIN SECTIONS OF VAPOR RETARDER AND SEAL PENETRATIONS WITH MASTIC TAPE, LAPPING JOINTS A MINIMUM OF 6". SEAL ALL PUNCTURES AND TEARS IN MEMBRANE AND SEAL AROUND ALL PIPE PENETRATIONS. TURN VAPOR RETARDER DOWN AT	W15. ALL LUMBER SHALL BE SEASONED TO A MOISTURE CONTENT OF 19 PERCENT OR LESS, WITH THE INDICATION OF 'S-DRY' ON THE GRADE STAMP.	1. SCREW ANCHOR(S a. SIMPSON STRON
PERIMETER WALLS AND SEAL TO WALL. ENSURE ALL SURFACES TO RECEIVE MASTIC OR MASTIC TAPE ARE CLEAN AND DRY. PROVIDE SAW CUT JOINTS AT A MAXIMUM SPACING OF 12'-0" OC EACH WAY UNLESS NOTED OTHERWISE ON THE CONTRACT	W16. LUMBER SHALL BE PROTECTED FROM THE ELEMENTS UNTIL SUCH TIME IT IS USED IN CONSTRUCTION.W17. ALL BOLTS AND LAG BOLTS SHALL BE FITTED WITH GALVANIZED, MALLEABLE IRON OR STEEL PLATE WASHERS.	b. HILTI KH-EZ (ICC- c. DEWALT SCREW-
DRAWINGS. PROVIDE (2) #4 x 2'-0" BARS PLACED 1 1/2" BELOW TOP OF SLAB AND LOCATED DIAGONALLY AT SLAB RE-ENTRANT CORNERS.	W18. AT ALL LOCATIONS, WALL STUDS, JAMB STUDS AND BEAM SUPPORT STUDS SHALL HAVE ADEQUATE SOLID MEMBERS PLACED BELOW TO CARRY ALL VERTICAL LOADS.	B. ADHESIVE ANCHORS S AND UNCRACKED CONCI
REFERENCE TYPICAL RE-ENTRANT CORNER BAR DETAIL. INTERIOR FLOOR SLABS-ON-GRADE SHALL BE CONSTRUCTED WITH AN OVERALL FLATNESS AND LEVELNESS VALUE OF FF=35	W19. INSTALL ROUGH CARPENTRY WORK TO COMPLY WITH APPLICABLE CODE STANDARDS UNLESS OTHERWISE INDICATED. FOR SHEATHING, UNDERLAYMENT AND OTHER PRODUCTS NOT COVERED IN ABOVE STANDARDS. COMPLY WITH RECOMMENDATIONS	1. EPOXY ANCHOR(S) a. SIMPSON STRON
AND FL=25, AND A MINIMUM LOCAL VALUE OF FF=24 AND LL=17. REFER TO ACI 117 AND ASTM E-1155.	OF MANUFACTURER OF PRODUCT INVOLVED FOR USE INTENDED. SET CARPENTRY WORK TO REQUIRED LEVELS AND LINES, WITH MEMBERS PLUMB AND TRUE AND CUT TO FIT. W20. SECURELY ATTACH CARPENTRY WORK TO SUBSTRATES AND SUPPORTING MEMBERS USING FASTENERS OF SIZE THAT WILL NOT	b. HILTI HIT-RE 500 ° c. HILTI HIT-HY 200 (
CRETE AND REINFORCING STEEL ALL CONCRETE SHALL BE LABORATORY TESTED AND CONTROLLED AND MEET THE REQUIREMENTS OF ACI 318. UNLESS NOTED	PENETRATE MEMBERS WHERE OPPOSITE SIDE WILL BE EXPOSED TO VIEW OR RECEIVE FINISH MATERIALS. INSTALL FASTENERS WITHOUT SPLITTING WOOD; FASTEN PANEL PRODUCTS TO ALLOW FOR EXPANSION AT JOINTS UNLESS OTHERWISE INDICATED.	d. DEWALT PURE 20 e. DEWALT AC200+
OTHERWISE, ALL CONCRETE SHALL MEET THE FOLLOWING REQUIREMENTS: INTERIOR SLABS-ON-GRADE AND FOOTINGS - 28 DAY STRENGTH = 4,000 PSI, SLUMP = 3" - 5", MAX W/C RATIO = 0.50, MAX	W21. PROVIDE WOOD FRAMING MEMBERS OF SIZE AND SPACING INDICATED. DO NOT SPLICE STRUCTURAL MEMBERS BETWEEN SUPPORTS.	13 - SHOP DRAWINGS SD1. SHOP DRAWING SUBMIT
AGGREGATE SIZE = 3/4", ACI EXPOSURE CLASS = F0. PORTLAND CEMENT SHALL CONFORM TO ASTM C-150, TYPE I OR II.	W22. FASTEN 2-PLY AND 3-PLY DIMENSION LUMBER BEAMS TOGETHER USING 2 ROWS OF 10d NAILS STAGGERED AT 6" O.C. WOOD HEADERS OR POSTS MADE UP OF 2 OR MORE 2x's SHALL BE SPIKED TOGETHER.	SD2. SHOP DRAWINGS SHALL ENGINEER OF RECORD.
AGGREGATE SHALL CONFORM TO ASTM C-33 H.R. AND BE FROM A SINGLE SOURCE. THE CONTRACTOR SHALL SUBMIT CONCRETE MIX DESIGNS FOR REVIEW A MINIMUM OF TWO WEEKS PRIOR THE FIRST CONCRETE	W23. PROVIDE A SINGLE PLATE AT THE BOTTOM AND A DOUBLE PLATE AT THE TOP OF ALL STUD WALLS. 9 - PREFABRICATED WOOD TRUSSES	SD3. THE FOLLOWING STRUC A. CONCRETE MIX DESIG
POUR. REFER TO ACI 318 FOR CONCRETE COVER, ACI 315 FOR DETAILING PRACTICES AND FABRICATION, AND ACI 301 FOR STANDARD PRACTICE FOR MIXING AND PLACING CONCRETE.	WT1. ALL PREFABRICATED WOOD TRUSSES SHALL BE FURNISHED IN ACCORDANCE WITH DESIGNS PREPARED BY A PROFESSIONAL ENGINEER REGISTERED IN THE STATE OF THE PROJECT, USING THE DESIGN LOADS AND SPAN CONSIDERATION INDICATED ON THE CONTRACT DOCUMENTS. NO DEVIATION OF TRUSS SHAPE MEMBER SIZE READING POINT LOCATIONS OR SUPERIMPOSED	B. FOUNDATION REINFOR C. WOOD TRUSS DRAWIN
REINFORCING STEEL SHALL MEET ASTM SPECIFICATION A-615, LATEST REVISION. BARS SHALL BE GRADE 60. DETAILING OF CONCRETE REINFORCEMENT AND ACCESSORIES SHALL CONFORM TO ACI 315.	THE CONTRACT DOCUMENTS. NO DEVIATION OF TRUSS SHAPE, MEMBER SIZE, BEARING POINT LOCATIONS, OR SUPERIMPOSED LOADS FROM THE CONTRACT DOCUMENTS SHALL BE PERMITTED WITHOUT APPROVAL OF THE ARCHITECT AND/OR ENGINEER.	WHICH THE PROJECT IS D. STRUCTURAL STEEL.
DETAILING OF CONCRETE REINFORCEMENT AND ACCESSORIES SHALL CONFORM TO ACI 315. SPLICE REINFORCING BARS AS INDICATED ON DRAWINGS. PROVIDE STANDARD ACI HOOK FOR CONTINUOUS BARS AT DISCONTINUOUS ENDS.	WT2. SHOP DRAWINGS, INCLUDING AN OVERALL ERECTION PLAN, INDICATING EACH TYPE OF TRUSS, TRUSS BEARING POINT LOCATIONS AND REACTIONS, REQUIRED LATERAL BRACING, EACH TRUSS MEMBER'S SIZE AND STRESS, AND CONNECTION DETAILS SHALL BE SUBMITTED FOR PRIOR APPROVAL TO THE CONTRACTOR.	
CRETE MASONRY UNITS	WT3. CERTIFIED CALCULATIONS SHALL BE PROVIDED FOR EACH TRUSS DESIGN. ALL WET STAMPED CALCULATIONS AND SHOP DRAWINGS SHALL BE SUBMITTED TO THE ARCHITECT AND DESIGN ENGINEER FOR REVIEW AND BUILDING DEPARTMENT	
ALL MASONRY UNITS ALL MASONRY WORK SHALL CONFORM TO BUILDING CODE REQUIREMENTS FOR MASONRY STRUCTURES (ACI 530/ASCE 5) AND SPECIFICATIONS FOR MASONRY STRUCTURES (ACI 530.1/ASCE 6).	APPROVAL PRIOR TO FABRICATION. WT4. CONTRACTOR SHALL TAKE NECESSARY PRECAUTIONS TO PROPERLY BRACE TRUSSES DURING LIFTING AND ERECTION.	
CONCRETE MASONRY UNITS SHALL MEET ASTM SPECIFICATION C 90. THE SPECIFIED DESIGN COMPRESSIVE STRENGTH OF CONCRETE MASONRY (fm) SHALL BE 1,500 PSI AND A 2,000 PSI NET AREA COMPRESSIVE STRENGTH CONCRETE MASONRY UNIT.	WT5. OVERALL TRUSS DIMENSIONS SHALL BE COORDINATED WITH THE ARCHITECTURAL DRAWINGS PRIOR TO FABRICATION. WT6. THE MOISTURE CONTENT OF ALL LUMBER SHALL BE WITHIN PROPER LIMITS, AS STATED IN THE REFERENCE SPECIFICATIONS,	
MORTAR SHALL MEET THE PROPERTY SPECIFICATIONS OF ASTM C 270 TYPE "S" MORTAR. MASONRY CEMENT SHALL NOT BE USED FOR MORTAR.	BUT SHALL NOT IN ANY CASE, EXCEED 19 PERCENT NOR BE LESS THAN 7 PERCENT AT THE TIME OF FABRICATION. WT7. ALL TRUSS MEMBERS SHALL BE ACCURATELY CUT TO LENGTH, ANGLE, AND TRUE LINE TO ASSURE TIGHT JOINTS FOR FINISHED	
GROUT SHALL MEET ASTM SPECIFICATION C 476 AND HAVE A MINIMUM 28 DAY COMPRESSIVE STRENGTH OF 2,000 PSI. GROUT SHALL BE MECHANICALLY CONSOLIDATED USING A VIBRATOR WITH A MAXIMUM 3/4" DIAMETER HEAD.	TRUSS. WT8. DEAD KNOTS AND WANES ON LUMBER SHALL NOT BE PRESENT UNDER THE CONNECTION PLATES. WT0. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING ADEQUATE COVER AND PROTECTION FROM WEATHER. CORROSION	
CONCRETE MASONRY SHALL BE LAID IN RUNNING (COMMON) BOND. ALL HORIZONTAL JOINT REINFORCEMENT SHALL BE HOT-DIPPED GALVANIZED 9 GAGE WIRE REINFORCEMENT (LADDER TYPE)	 WT9. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING ADEQUATE COVER AND PROTECTION FROM WEATHER, CORROSION, BENDING, DAMAGE, AND DETERIORATION WHEN STORED ON THE JOBSITE. WT10. WT10.THE SIZE AND CONFIGURATION OF THE TRUSS WEB AND CHORD MEMBERS SHALL BE DETERMINED BY THE TRUSS 	
EMBEDDED IN MORTAR JOINTS AT 16" O.C. JOINT REINFORCEMENT SHALL COMPLY WITH ASTM A 951 AND SHALL BE LAPPED 6" WITH AT LEAST ONE CROSS WIRE WITHIN LAP. USE OPEN KNOCK OUT BOND BEAM BLOCK. DO NOT USE TROUGH TYPE BLOCKS FOR BOND BEAMS. DO NOT CONTINUE BOND BEAM REINFORCING THROUGH CONTROL JOINTS, UNO.	MANUFACTURER. WT11. TRUSSES SHALL BE DESIGNED FOR THE LOADING AS NOTED ON THESE PLANS.	

RELEASED FOR CONSTRUCTION Noted on Plans Revie

pment Services De

Lee's Summit, Misso 07/03/2024

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GENERAL NOTES

EFLECTIONS SHALL BE SPAN LENGTH/240 FOR THE ROOF TRUSSES AND SPAN LENGTH/360 FOR FLOOR, WAY/CORRIDOR TRUSSES. THE MAXIMUM DEFLECTION SHALL NOT EXCEED 1 INCH. URER SHALL DESIGN ALL TRUSS HEADERS, CONTINUOUS BEARING MEMBERS, AND SHEAR PANELS FOR ADS NOTED ON THESE PLANS.

AND TRUSS-TO-BEAM CONNECTIONS SHALL BE DESIGNED AND SUPPLIED BY THE TRUSS MANUFACTURER. ADE IN THE FIELD SHALL BE DOCUMENTED BY THE CONTRACTOR. A SIGNED AND SEALED ENGINEERED UIRED IN ALL CASES. S SHALL BE ATTACHED TOGETHER WITH A-307 BOLTS AT A SPACING OF 12 INCHES OR AS PER THE

THE TRUSS MANUFACTURER. JTTING OF TRUSSES IS PROHIBITED. ANY MODIFICATIONS, IF REQUIRED, SHALL BE MADE UNDER THE JSS ENGINEER. F ONE STUD UNDER EACH TRUSS PLY AT GIRDERS UNLESS NOTED OTHERWISE ON STRUCTURAL

PERMANENT BRACING SHEET FOR ATTACHMENT OF ALL REQUIRED PERMANENT BRACING FOR TRUSSES. RIAL SHALL NOT BE USED AS PERMANENT WEB OR DIAGONAL BRACES. AND FABRICATION CRITERIA OF PREFABRICATED WOOD TRUSSES SHALL BE IN ACCORDANCE WITH THE OWING DESIGN STANDARDS: TUTE, TPI-14, "DESIGN SPECIFICATIONS FOR LIGHT METAL PLATE CONNECTED WOOD TRUSSES". ILDING CODE.

BER SHALL BE EITHER SOUTHERN YELLOW PINE OR DOUGLAS FIR-LARCH. ALL 2x12 MEMBERS SHALL BE T STRUCTURAL. ALL OTHER LUMBER SHALL BE GRADE NO 2. : SPECIES – SURFACE DRY DOUGLAS FIR-LARCH (DFL)

IOISTS, WALLS AND COLUMNS - 2" TO 4" WIDE

JOISTS, WALLS AND COLUMNS - 2" TO 4" WIDE

ENER (PAF)

ASTENERS SHALL BE OF TYPE SUITABLE FOR THE APPLICATION INDICATED, FABRICATED FROM T MATERIALS, WITH ALLOWABLE LOAD CAPACITIES CALCULATED ACCORDING TO THE PHYSICAL AND RIA OF ICC-ES AC70, GREATER THAN OR EQUAL TO THE DESIGN LOAD IN ACCORDANCE WITH ASTM E 1190. MADE FROM HARDENED STEEL COMPLYING WITH THE MANUFACTURER'S QUALITY DOCUMENTATION WITH

ASTENERS ANCHORS SHALL BE OF THE SIZE AND QUANTITY NOTED ON THE DETAILS, AS MANUFACTURED ONG-TIE ANCHOR SYSTEMS, OR DEWALT/POWERS. NO OTHER MANUFACTURER IS PERMITTED. ANCHORS IFACTURER SHALL BE UTILIZED ON THE PROJECT.) FASTENERS SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S WRITTEN

ASTENERS INTO CONCRETE:

FASTENERS SHALL HAVE BEEN TESTED AND QUALIFIED FOR USE IN ACCORDANCE WITH ICC-ES AC70. ER ACTUATED FASTENERS INCLUDE:

SHANK X-U (ICC-ES ESR-2269). IANK X-P (ICC-ES ESR-2269).

G-TIE PDPA (ICC-ES ESR-2138).

SPIRAL CSI (ICC-ES ESR-2024). THE DRAWINGS OTHERWISE, ALL FASTENERS INTO CONCRETE SHALL HAVE A MINIMUM SHANK DIAMETER

JFFICIENT LENGTH TO PROVIDE A MINIMUM CONCRETE EMBEDMENT DEPTH OF 1". ASTENERS INTO STEEL:

) FASTENERS SHALL HAVE BEEN TESTED AND QUALIFIED FOR USE IN ACCORDANCE WITH ICC-ES AC70. ER ACTUATED FASTENERS INCLUDE: SHANK X-U (ICC-ES ESR-2269).

SHANK X-U 15 (ICC-ES ESR-2269).

G-TIE PDPA (ICC-ES ESR-2138).

SPIRAL CSI (ICC-ES ESR-2024). THE DRAWINGS OTHERWISE, ALL FASTENERS INTO STEEL SHALL HAVE A MINIMUM SHANK DIAMETER OF ICIENT LENGTH TO PENETRATE THROUGH THE STEEL SUBSTRATE.

ORS SHALL ONLY BE USED WHERE SPECIFIED ON THE CONSTRUCTION DOCUMENTS. THE CONTRACTOR AL FROM THE ENGINEER-OF-RECORD PRIOR TO INSTALLING POST-INSTALLED ANCHORS IN PLACE OF D CAST-IN-PLACE ANCHORS. CARE SHALL BE TAKEN IN PLACING POST-INSTALLED ANCHORS TO AVOID ING REBAR. HOLES SHALL BE DRILLED AND CLEANED IN ACCORDANCE WITH THE MANUFACTURER'S S. SUBSTITUTION REQUESTS FOR PRODUCTS OTHER THAN THOSE SPECIFIED BELOW, SHALL BE NTRACTOR TO THE ENGINEER-OF-RECORD ALONG WITH CALCULATIONS THAT ARE PREPARED AND RED PROFESSIONAL ENGINEER. THE CALCULATIONS SHALL DEMONSTRATE THAT THE SUBSTITUTED OF ACHIEVING THE PERTINENT EQUIVALENT PERFORMANCE VALUES (MINIMUM) OF THE SPECIFIED PPROPRIATE DESIGN PROCEDURE AND/OR STANDARD(S) AS REQUIRED BY THÉ BUILDING CODE. CONTACT ESENTATIVE FOR THE INITIAL TRAINING AND INSTALLATION OF ANCHORS AND FOR PRODUCT RELATED ABILITY.

CRETE ANCHORS SHALL BE OF SIZE, TYPE, AND QUANTITY AS NOTED ON DETAILS, AS MANUFACTURED BY G-TIE ANCHOR SYSTEMS OR POWERS/DEWALT FASTENERS. NO OTHER MANUFACTURER PERMITTED. ONE MANUFACTURER SHALL BE UTILIZED ON THE PROJECT.

OLTS SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S WRITTEN RECOMMENDATIONS. ST-INSTALLED ANCHORS REQUIRES SPECIAL INSPECTION BY THE TESTING LAB TO ENSURE PROPER ALLATION PER MANUFACTURER'S SPECIFICATIONS.

RS SHALL HAVE BEEN TESTED AND QUALIFIED FOR USE IN ACCORDANCE WITH ACI 355.2 AND ICC-ES ND UNCRACKED CONCRETE RECOGNITION. PRE-APPROVED MECHANICAL ANCHORS INCLUDE:

NG-TIE TITEN-HD (ICC-ES ESR-2713).

C-ES ESR-3027). /-BOLT+ (ICC-ES ESR-3889 AND 4042).

SHALL HAVE BEEN TESTED AND QUALIFIED FOR USE IN ACCORDANCE WITH ICC-ES AC308 FOR CRACKED CRETE RECOGNITION. PRE-APPROVED ADHESIVE ANCHORS INCLUDE:

NG-TIE SET-3G (ICC-ES ESR-4057).

) V3 (ICC-ES ESR-3814)

) (ICC-ES ESR-3187). 200+ (ICC-ES ESR-5144)

+ (ICC-ES ESR-4027).

TTALS SHALL BE SUBMITTED ELECTRONICALLY.

BE REVIEWED AND APPROVED BY THE CONTRACTOR PRIOR TO SUBMITTING TO THE ARCHITECT AND/OR

CTURAL SHOP DRAWINGS SHALL BE SUBMITTED TO THE ARCHITECT AND ENGINEER OF RECORD:

ORCING STEEL. INGS AND CALCULATIONS SIGNED AND SEALED BY A LICENSED PROFESSIONAL ENGINEER IN THE STATE IN S LOCATED.

SA			30
#2001	610 NW CHIPMAN ROAD	LEE'S SUMMIT, MO 64086 PROPOSED LOT 3	PROTOTYPE VERSION V2-B
Brian ENGI	LLISON ASSOCI onsulting Struct 8 W. Plano Pkwy. e 200 no, TX 75093 CERTIFICATE (E-2012) CERTIFICATE (E-2012) NEER OF RI	ATES, LI ctural Engin Ofc: (972) 35 Fax: (972) 35 WWW.ellisongage DF AUTHOR 009242 n, P.E. 007270	C eers 4-8855 4-8856 e.com
THE PE-20	MILAN HIRK LISON 4/29/24 MBER 09007270	04/12/2	24
CONDITIONS JOB SITE AN OF ANY I OMISSIONS C BEGINNING C	ND NOTIFY DIMENSIO DR DISCRE	ENSIONS THE AR NAL ERR PANCIES ATING AI DRAWING	S AT THE CHITECT ORS, S BEFORE NY WORK.
PROJECT IN PROJECT NO:	-	TION	24-0087

SHEET TITLE

CHECKED BY:

SCALE:

DRAWN BY:

ORIGINAL ISSUE



04/12/2024

AS NOTED

EGA

RBG

SHEET NUMBER

S001

PE	HE OWNER SHALL EMPLOY QUALIFIED SPECIAL INSPECTORS TO PERFORM INSPECTIC ERFORM ALL DUTIES AND RESPONSIBILITIES AS REQUIRED BY THE BUILDING CODE. J		-			IBC SECTION 1705.2, AISC 360 CH		CTDUCTION
2. TH	RE NOT A SUBSTITUTE FOR SPECIAL INSPECTIONS. HE FOLLOWING SCHEDULE CONTAINS A LIST OF THE SPECIAL INSPECTION ACTIVITIES 7 FOR THE FABRICATION. ERECTION AND CONSTRUCTION OF THE STRUCTURAL SYST					REQUIRED SPECIAL INSPECTIONS AND TESTS O	QC INSPECTION	
PF CH	ROJECT. ALL INSPECTORS SHALL BE QUALIFIED BY TRAINING AND EXPERIENCE FOR THAPTER 17 AND THE PROJECT SPECIFICATIONS FOR SPECIFIC TEST PROCEDURES.	THE REQUIRED INSPI	ECTIONS AND T	EST PROCEDURES. REFER	R TO IBC	STEEL - WELDING	TYPE	REFERENCED STAND
RE	ESTING AND INSPECTION REPORTS SHALL BE PREPARED FOR EACH INSPECTION ITEM EPORTS SHALL BE DISTRIBUTED TO THE OWNER, CONTRACTOR, ARCHITECT, STRUCT EVIEW, COMMENT, AND ACTION, AS NECESSARY.					INSPECTION TASKS PRIOR TO WELDING WELDING PROCEDURE SPECIFICATIONS (WPSS) AVAILABLE	PERFORM	AISC 360, TABLE N5.4- AWS D1.1-6.3
4. AF	RCHITECTURAL, MECHANICAL AND ELECTRICAL COMPONENTS REQUIRING SPECIAL IN EFER TO THE ARCHITECT AND MECHANICAL ENGINEER FOR SPECIAL INSPECTION REC				STED HERE.	MANUFACTURER CERTIFICATION FOR WELDING CONSUMABLES AVAILABLE MATERIAL IDENTIFICATION (TYPE/GRADE)	PERFORM OBSERVE	AWS D1.1-6.2 AWS D1.1-6.2
	IS THE CONTRACTOR'S SOLE RESPONSIBILITY TO ENSURE THESE TESTS AND INSPEC EFER TO THE PROJECT SPECIFICATIONS FOR MORE SPECIFIC INSPECTION AND TESTI		RMED.			WELDER IDENTIFICATION SYSTEM FIT-UP OF GROOVE WELDS (INCLUDING JOINT GEOMETRY	OBSERVE	AWS D1.1-6.4
	IBC 1704.	2.5				JOINT PREPARATION DIMENSIONS (ALIGNMENT, ROOD OPENING, ROOT FACE, BEVEL)	OBSERVE	AWS D1.1-6.5.2 AWS D1.1-5.22
	REQUIRED FABRICAT		OVAL			CLEANLINESS (CONDITION OF STEEL SURFACES) TACKING (TACK WELD QUALITY AND LOCATION) BACKING TYPE AND FIT (IF APPLICABLE)		AWS D1.1-5.15 AWS D1.1-5.18 AWS D1.1-5.10, 5.22.1.
	WHERE FABRICATION OF STRUCTURAL, LOAD-BEARING OR LATERAL LOAD-RE PREMISES OF A FABRICATOR'S SHOP, SPECIAL INSPECTIONS OF THE FABRICA					CONFIGURATION AND FINISH OF ACCESS HOLES FIT UP OF FILLET WELDS	OBSERVE	AWS D1.1-6.5.2, 5.17
١	WHERE THE FABRICATOR HAS BEEN APPROVED TO PERFORM WORK WITHOU	T SPECIAL INSPEC	TIONS IN ACCO	ORDANCE WITH SECTION	1704.2.5.1.	DIMENSIONS (ALIGNMENT, GAPS AT ROOT) CLEANLINESS (CONDITION OF STEEL SURFACES) TACKING (TACK WELD QUALITY AND LOCATION)	OBSERVE	AWS D1.1-5.22.1 AWS D1.1-5.15 AWS D1.1-5.18
F	EXCEPTION: SPECIAL INSPECTIONS SHALL NOT BE REQUIRED WHERE THE WO PERFORM SUCH WORK WITHOUT SPECIAL INSPECTION. APPROVAL SHALL BE I PROCEDURES AND QUALITY CONTROL MANUALS THAT PROVIDE A BASIS FOR	BASED ON REVIEW CONTROL OF MATE	OF THE FABRI ERIALS AND WO	CATOR'S WRITTEN FABF ORKMANSHIP, WITH PER	RICATION IODIC	CHECK WELDING EQUIPMENT INSPECTION TASKS DURING WELDING	OBSERVE	AWS D1.1-6.2, 5.11 AISC 360, TABLE N5.4-
S	AUDITING OF FABRICATION AND CONTROL PRACTICES BY AN APPROVED AGEN THE APPROVED FABRICATOR SHALL SUBMIT A CERTIFICATE OF COMPLIANCE SUBMITTAL TO THE BUILDING OFFICIAL AS SPECIFIED IN SECTION 1704.5 STATI	TO THE OWNER OR	R THE OWNER'S	S AUTHORIZED AGENT F	OR	USE OF QUALIFIED WELDERS CONTROL AND HANDLING OF WELDING CONSUMABLES PACKING	OBSERVE	AWS D1.1-6.4 AWS D1.1-6.2 AWS D1.1-5.3.1
	APPROVED CONSTRUCTION DOCUMENTS.					EXPOSURE CONTROL NO WELDING OVER CRACKED TACK WELDS	OBSERVE	AWS D1.1-5.3.1 AWS D1.1-5.3.2, 5.3.3 AWS D1.1-5.18
	IBC TABLE 1					ENVIRONMENTAL CONDITIONS WIND SPEED WITHIN LIMITS	OBSERVE	AWS D1.1-5.12.1
	REQUIRED SPECIAL INSPECTIO	NS AND TE	ESTS OF	SOILS		PRECIPITATION AND TEMPERATURE WPS FOLLOWED		AWS D1.1-5.12.2 AWS D1.1-6.3.3,6.5.2, 5.5,
				CONTINUOUS	PERIODIC	SETTINGS ON WELDING EQUIPMENT TRAVEL SPEED SELECTED WELDING MATERIALS		
1. (VERIFY MATERIALS BELOW SHALLOW FOUNDATIONS ARE ADEQUATE TO ACHII CAPACITY.				X	SELECTED WELDING MATERIALS SHIELDING GAS TYPE/FLOW RATE PREHEAT APPLIED	OBSERVE	AWS D1.1-5.6. 5.7
	VERIFY EXCAVATIONS ARE EXTENDED TO PROPER DEPTH AND HAVE REACHE	ED PROPER MATER	RIAL.		X	INTERPASS TEMPERATURE MAINTAINED (MIN/MAX) PROPER POSITION (F,V,H,OH)		,
	PERFORM CLASSIFICATION AND TESTING OF COMPACTED FILL MATERIALS. VERIFY USE OF PROPER MATERIALS, DENSITIES, AND LIFT THICKNESSES DUR	ING PLACEMENT A	ND		X	WELDING TECHNIQUES INTERPASS AND FINAL CLEANING	OBSERVE	AWS D1.1-6.5.2, 6.5.3, 5. AWS D1.1-5.30.1
	COMPACTION OF COMPACTED FILL AND OTHER GRADING ACTIVITIES REQUIRI A. ALL SOILS NOT MEETING THE REQUIREMENTS OF CATEGORY B.				× X	EACH PASS WITHIN PROFILE LIMITATIONS EACH PASS MEETS QUALITY REQUIREMENTS	UBSEKVE	
, 					^	- INSPECTION TASKS AFTER WELDING		AISC 360, TABLE N5.4-
E	MODERATELY, HIGHLY OR CRITICALLY EXPANSIVE SOILS, HYDROCOLLA AND/OR SOILS REQUIRING CHEMICAL OR MECHANICAL (GEOSYNTHETIC B. ENCOUNTERED. CONSTRUCTION OR STABILIZATION OF CUT OR FILL SL	S) STABILIZATION	ARE	x		WELDS CLEANED SIZE, LENGTH, AND LOCATION OF WELDS	OBSERVE PERFORM	AWS D1.1-5.30.1 AWS D1.1-6.5.1
	HEIGHT, OR ANY SITE REQUIRING THAT FILL BE PLACED ON A NATURAL SLOPE, OR AN EXISTING FILL SLOPE STEEPER THAN 5:1.					WELDS MEET VISUAL ACCEPTANCE CRITERIA CRACK PROHIBITION WELD/BASE-METAL FUSION		AWS D1.1-6.5.3 TABLE 6.1 (1)
	PRIOR TO PLACEMENT OF COMPACTED FILL, OBSERVE SUBGRADE AND VERIF PREPARED PROPERLY.	Y THAT SITE HAS B	BEEN		X	CRATER CROSS SECTION WELD PROFILES	PERFORM	TABLE 6.1 (2) TABLE 6.1 (3)
	IBC TABLE 1	705 3				WELD SIZE UNDERCUT		TABLE 6.1 (4), 5.24 TABLE 6.1 (6) TABLE 6.1 (7)
	REQUIRED SPECIAL INSPECTIONS AND TE		DNCRET		TION	POROSITY ARC STRIKES	PERFORM	TABLE 6.1 (8) AWS D1.1-5.29
	TYPE	CONTINUOUS	PERIODIC	REFERENCED STANDARD	IBC	K-AREA – WHEN WELDING OF DOUBLER PLATES, CONTINUITY PLATES OR STIFFENERS HAS BEEN PERFORMED IN THE K-AREA, VISUALLY INSPECT THE WEB K-AREA FOR CRACKS	PERFORM	
1. I	INSPECT REINFORCEMENT AND VERIFY PLACEMENT.		X	ACI 318: CH. 20, 25.2,	1908.4	BACKING REMOVED AND WELD TABS REMOVED (IF REQUIRED) REPAIR ACTIVITIES DOCUMENT ACCEPTANCE OR REJECTION OF WELDED JOINT OR MEMBER	PERFORM PERFORM PERFORM	AWS D1.1-5.10, 5.31 AWS D1.1-6.5.3, 5.26 AWS D1.1-6.5.4, 6.5.5
2. F	REINFORCING BAR WELDING: VERIFY WELDABILITY OF REINFORCING BARS OTHER THAN ASTM			25.3, 26.6.1-26.6.3		STEEL - BOLTING	QC INSPECTION TYPE	REFERENCED STAND
ŀ	A. A706.		Х	AWS D1.4 ACI 318: 26.6.4		INSPECTION TASKS PRIOR TO BOLTING		AISC 360, TABLE N5.6-
3. I	B. INSPECT SINGLE-PASS FILLET WELDS NO LARGER THAN 5/16". INSPECT ANCHORS CAST IN CONCRETE.		X X	ACI 318: 17.8.2		MANUFACTURER'S CERTIFICATIONS AVAILABLE FOR FASTENER MATERIALS	OBSERVE	RSCS 2.1, 9.1 RSCS 2.1, 9.1 , ASTM
4. F	INSPECT ANCHORS POST-INSTALLED IN HARDENED CONCRETE MEMBERS. REFER TO THE RESEARCH REPORT LISTED IN THE GENERAL NOTES FOR					FASTENERS MARKED IN ACCORDANCE WITH ASTM REQUIREMENTS PROPER FASTENERS SELECTED FOR THE JOINT DETAIL (GRADE, TYPE, BOLT LENGTH IF THREADS	OBSERVE	STANDARDS
9	SPECIFIC REQUIREMENTS OF SPECIAL INSPECTION FOR EACH PRODUCT. ADHESIVE ANCHORS INSTALLED HORIZONTALLY OR UPWARDLY	x		ACI 318: 17.8.2.4		ARE TO BE EXCLUDED FROM SHEAR PLANE) PROPER BOLTING PROCEDURE SELECTED FOR JOINT DETAIL	OBSERVE	RSCS 2.3.2, 2.7.2, 9.1 RCSC 4, 8
E	A. INCLINED ORIENTATIONS TO RESIST SUSTAINED TENSION LOADS.B. MECHANICAL OR ADHESIVE ANCHORS NOT DEFINED IN 4A.		х	ACI 318: 17.8.2		CONNECTING ELEMENTS INCLUDING THE APPROPRIATE FAYING SURFACE CONDITION AND HOLE PREPARATIONS, IF SPECIFIED, MEET APPLICABLE REQUIREMENTS	OBSERVE	RCSC 3, 9.1, 9.3
5. \	VERIFY USE OF REQUIRED DESIGN MIX.		Х	ACI 318: CH. 19, 26.4.3, 26.4.4	1904.1, 1904.2, 1908.2, 1908.3	booomentee for the rener the believer the methodo boeb	PERFORM	RCSC 7, 9.3
	PRIOR TO CONCRETE PLACEMENT, FABRICATE SPECIMENS FOR STRENGTH TESTS, PERFORM SLUMP AND AIR CONTENT TESTS, AND DETERMINE THE	x		ASTM C172 ASTM C31	1908.10	PROPER STORAGE PROVIDED FOR BOLTS, NUTS, WASHERS AND OTHER FASTENER COMPONENTS INSPECTION TASKS DURING BOLTING	OBSERVE	RCSC 2.2, 8, 9.1 AISC 360, TABLE N5.6-
	TEMPERATURE OF CONCRETE.			ACI 318: 26.4, 26.12	1908.6, 1908.7,	FASTENER ASSEMBLIES, OF SUITABLE CONDITION, PLACED IN ALL HOLES AND WASHERS (IF REQUIRED) ARE POSITIONED AS REQUIRED	OBSERVE	RCSC 8.1, 9.1
。 \	INSPECT CONCRETE PLACEMENT FOR PROPER APPLICATION TECHNIQUES. VERIFY MAINTENANCE OF SPECIFIED CURING TEMPERATURE AND	X	 V	ACI 318: 26.5	1908.8 1908.9	JOINT BROUGHT TO THE SNUG-TIGHT CONDITION PRIOR TO THE PRETENSIONING OPERATION FASTENER COMPONENT NOT TURNED BY THE WRENCH PREVENTED FROM ROTATING	OBSERVE OBSERVE	RCSC 8.1, 9.1 RCSC 8.2, 9.2
9. I	TECHNIQUES. NOT APPLICABLE		X 	ACI 318: 26.5.3, 26.5.5		FASTENERS ARE PRETENSIONED IN ACCORDANCE WITH THE RCSC SPECIFICATION, PROGRESSING SYSTEMATICALLY FROM THE MOST RIGID POINT TOWARDS THE FREE EDGES		RCSC 8.2, 9.2
	NOT APPLICABLE VERIFY IN-SITU CONCRETE STRENGTH PRIOR TO REMOVAL OF SHORES		 ×	 A CL 240: 00 44 0		INSPECTION TASKS AFTER BOLTING		AISC 360, TABLE N5.6-
· · · · /	AND FORMS FOR BEAMS AND STRUCTURAL SLABS.		Х	ACI 318: 26.11.2		DOCUMENT ACCEPTANCE OR REJECTION OF BOLTED CONNECTIONS	PERFORM QC INSPECTION	 REFERENCED STAND
12. (INSPECT FORMWORK FOR SHAPE, LOCATION AND DIMENSIONS OF THE CONCRETE MEMBER BEING FORMED.		Х	ACI 318: 26.11.1.2 (b)		STELL - GLINLINAL STEEL AND OTHER STEEL VERIFICATIONS AND INSPECTIONS	TYPE	AISC 360: N5.7, AISC 34
	IBC 1704.					MATERIAL VERIFICATION OF STRUCTURAL STEEL -IDENTIFICATION MARKINGS TO CONFORM TO AISC 360	OBSERVE	
	REQUIRED WOOD TRUSS FAI	BRICATOR	APPRO	VAL		-MANUFACTURER'S CERTIFIED MILL REPORTS STRUCTURAL STEEL DETAILS		
F	WHERE FABRICATION OF STRUCTURAL, LOAD-BEARING OR LATERAL LOAD-RE PREMISES OF A FABRICATOR'S SHOP, SPECIAL INSPECTIONS OF THE FABRICA INSPECTIONS DURING FABRICATION ARE NOT REQUIRED WHERE THE FABRICA	TED ITEMS SHALL E	BE PERFORME	D DURING FABRICATION	. SPECIAL	ALL FABRICATED STEEL OR STEEL FRAMES SHALL BE INSPECTED TO VERIFY COMPLIANCE WITH THE DETAILS SHOWN IN THE CONSTRUCTION DOCUMENTS, SUCH AS BRACES, STIFFENERS, MEMBER LOCATIONS, AND PROPER APPLICATION OF JOINT DETAILS AT EACH	OBSERVE	
(CONTROL PROCEDURES THAT PROVIDE A BASIS FOR CONTROL OF THE WORK APPROVED CONSTRUCTION DOCUMENTS AND BUILDING CODE. APPROVAL SH	MANSHIP AND THE	E FABRICATOR' ON REVIEW OF	S ABILITY TO CONFORM	TO THE	CONNECTION ANCHOR RODS AND OTHER EMBEDMENTS SUPPORTING STRUCTURAL STEEL		
(CONTROL PROCEDURES AND PERIODIC INSPECTION OF FABRICATION PRACT	ICES BY THE BUILD	NING OFFICIAL.			SHALL BE ON THE PREMISES DURING THE PLACEMENT OF ANCHOR RODS AND OTHER EMBEDMENTS SUPPORTING STRUCTURAL STEEL FOR COMPLIANCE WITH CONSTRUCTION	OBSERVE	
ŀ	EXCEPTION: SPECIAL INSPECTIONS SHALL NOT BE REQUIRED WHERE THE WO APPROVED TO PERFORM SUCH WORK WITHOUT SPECIAL INSPECTION. APPRO PROCEDURAL AND QUALITY CONTROL MANUALS AND PERIODIC AUDITING OF	VAL SHALL BE BAS	SED UPON REV	IEW OF THE FABRICATO	R'S WRITTEN	DOCUMENTS; VERIFY THE DIAMETER, GRADE, TYPE AND LENGTH OF THE ANCHOR ROD OR EMBEDDED ITEM, AND THE EXTENT OR DEPTH OF EMBEDMENT PRIOR TO PLACEMENT OF CONCRETE		
(COMPLETION OF FABRICATION, THE APPROVED FABRICATOR SHALL SUBMIT A AUTHORIZED AGENT FOR SUBMITTAL TO THE BUILDING OFFICIAL STATING TH	CERTIFICATE OF C	COMPLIANCE T	O THE OWNER OR OWN	ER'S	DEFINITIONS:	1	
	APPROVED CONSTRUCTION DOCUMENTS.					PERFORM: PERFORM THESE TASKS FOR EACH WELD, FASTENER OR BOLTED CONNECTION, AND FOR SERVE: OBSERVE THESE ITEMS ON A RANDOM SAMPLING BASIS TO INSURE THE APPLICABLE REPORT		
						DELAYED PENDING THESE INSPECTIONS AT CONTRACTOR'S RISK. NOTES:		
	REQUIRED SPECIAL INSPECTION	IS FUK WIN		_		1. REFER TO AISC 360 FOR MORE SPECIFIC INFORMATION REGARDING QUALITY CONTROL AND	QUALITY ASSURANCE F	OR STRUCTURAL STEEL.
				CONTINUOUS	PERIODIC			
•	WOOD CONSTRUCTION: INSPECTION OF SCREW ATTACHMENTS, BOLTING, AN FASTENING OF ELEMENTS OF THE MAIN WINDFORCE RESISTING SYSTEM, INC BRACES, DIAPHRAGMS, COLLECTORS (DRAG STRUTS) AND HOLD-DOWNS.				х			
1.				- I		-4		
1. 	WIND-RESISTING COMPONENTS: INSPECTION OF FASTENING OF ROOF COVER FRAMING CONNECTIONS, AND EXTERIOR WALL COVERING AND WALL CONNEC DIAGPHRAGMS AND FRAMING.				х			

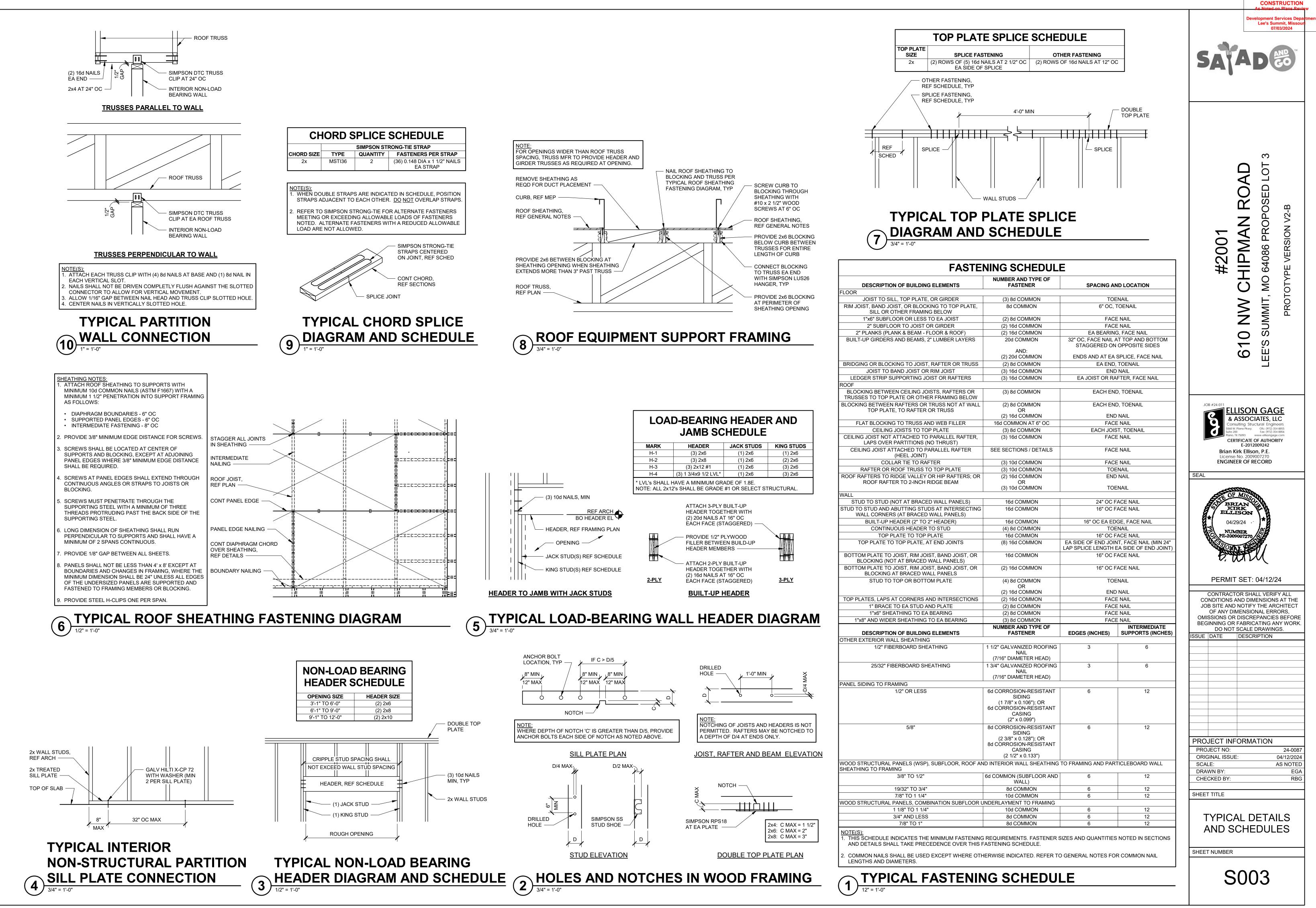
Α	BBREVIATIONS LEGEND	ABBREVIATIONS LEGEND		
ABBR	DEFINITION	ABBR	DEFINITION	
AB	ANCHOR BOLT	LLH	LONG LEG HORIZONTAL	
ACI	AMERICAN CONCRETE INSTITUTE	LLV	LONG LEG VERTICAL	
AFF	ABOVE FINISHED FLOOR	LONG	LONGITUDINAL	
AISC	AMERICAN INSTITUTE OF STEEL CONSTRUCTION	LSH	LONG SIDE HORIZONTAL	
AISI	AMERICAN IRON AND STEEL INSTITUTE	LSV	LONG SIDE VERTICAL	
ARCH	ARCHITECTURAL	MAX	MAXIMUM	
ASTM	AMERICAN SOCIETY FOR TESTING AND MATERIALS	MECH	MECHANICAL	
AWS	AMERICAN WELDING SOCIETY	MFR	MANUFACTURER	
BFF	BELOW FINISHED FLOOR	MIN	MINIMUM	
BO	BOTTOM OF	MISC	MISCELLANOUS	
BOS	BOTTOM OF STEEL	MTL	METAL	
вот	воттом	NIC	NOT IN CONTRACT	
BRG	BEARING	NO	NUMBER	
BTWN	BETWEEN	NS	NEAR SIDE	
CJ	CONTRACTION JOINT	NTS	NOT TO SCALE	
CL	CENTER LINE	oc	ON CENTER	
CLR	CLEAR	OH	OPPOSITE HAND	
CMU	CONCRETE MASONRY UNIT	PAF	POWER ACTUATED FASTENER	
COL	COLUMN	PCF	POUNDS PER CUBIC FOOT	
CONC	CONCRETE	PL	PLATE	
CONN	CONNECTION	PLF	POUNDS PER LINEAR FOOT	
ONST	CONSTRUCTION	PMEJ	PREMOLDED EXPANSION JOINT	
CONT	CONTINUOUS	PSF	POUNDS PER SQUARE FOOT	
DIA	DIAMETER	PSI	POUNDS PER SQUARE INCH	
EA	EACH	REF	REFER TO	
EF	EACH FACE -or- EXHAUST FAN	REINF	REINFORCING	
EIFS	EXTERIOR INSULATION AND FINISH SYSTEM	RO	ROUGH OPENING	
EJ	EXPANSION JOINT	RTU	ROOF TOP UNIT	
EL	ELEVATION	SCHED	SCHEDULE	
ELEC	ELECTRICAL	SDI	STEEL DECK INSTITUTE	
EQ	EQUAL	SIM	SIMILAR	
EW	EACH WAY	SJI	STEEL JOIST INSTITUTE	
FDN	FOUNDATION	SPECS	SPECIFICATIONS	
FF	FINISHED FLOOR	STL	STEEL	
FS	FAR SIDE	STRUC	STRUCTURAL	
FTG	FOOTING	T&B	TOP AND BOTTOM	
FV	FIELD VERIFY	THK	THICKNESS	
GA	GAUGE	то	TOP OF	
GC	GENERAL CONTRACTOR	тос	TOP OF CONCRETE	
H	HEIGHT	TOF	TOP OF FOOTING	
IORIZ	HORIZONTAL	TOGB	TOP OF GRADE BEAM	
HSA	HEADED STUD ANCHOR	ТОВЬ	TOP OF MASONRY	
HSS	HOLLOW STRUCTURAL SHAPE	TON	TOP OF STEEL	
JBE	JOIST BEARING ELEVATION	TOW	TOP OF WALL	
JST	JOIST BEARING ELEVATION	TRANS	TRANSVERSE	
JT	JOINT	TYP	TYPICAL	
KSI	KIPS PER SQUARE INCH	UNO	UNLESS NOTED OTHERWISE	
L	LENGTH	VERT	VERTICAL	
			VENTOAL	

DESIGN LOADS	
1. GOVERNING CODES A. 2018 INTERNATIONAL BUILDING CODE (ASCE 7-16)	
2. GRAVITY LOADS	
A. FLOOR LIVE LOAD	150 PSF
B. ROOF LOADS	
1. ROOF DEAD LOAD - TRUSS TOP CHORD	15 PSF
- TRUSS BOTTOM CHORD	10 PSF
2. ROOF LIVE LOAD C. SNOW LOADS	20 PSF
1. IMPORTANCE FACTOR (I)	1.0
2. SNOW EXPOSURE FACTOR (Ce)	1.0
3. ROOF THERMAL FACTOR (Ct) 1. GROUND SNOW LOAD (Pg)	1.0 20 PSF
5. FLAT ROOF SNOW LOAD (Pf)	14 PSF
6. RAIN-ON-SNOW SURCHARGE	5 PSF 20 PSF
7. MINIMUM SNOW LOAD (Pmin) DESIGN ROOF SNOW LOAD	20 PSF 20 PSF
3. LATERAL LOADS A. WIND LOAD CRITERIA	
1. ULTIMATE DESIGN WIND SPEED (Vult, 3-SECOND GUST)	110 MPH
2. NOMINAL DESIGN WIND SPEED (Vasd)	85 MPH
3. RISK CATEGORY 4. EXPOSURE CATEGORY	II C
5. INTERNAL PRESSURE COEFFICIENT	+/- 0.18
 B. COMPONENTS AND CLADDING DESIGN WIND PRESSURES 1. EXTERIOR WALLS (ULTIMATE, BASED ON 50 SQ FT) 	
- INTERIOR AND EXTERIOR ZONE	26.3 PSF
- PARAPETS	64.7 PSF
2. WALL OPENINGS (ULTIMATE) - 0 TO 19 SQ FT	31.2 PSF
- 20 TO 49 SQ FT	29.1 PSF
- 50 TO 99 SQ FT	26.3 PSF
- 100 TO 199 SQ FT - 200 TO 499 SQ FT	24.3 PSF 22.2 PSF
- GREATER THAN 500 SQ FT	19.5 PSF
3. ROOF ASSEMBLY UPLIFT (ULTIMATE) REFER TO ASCE 7-16, FIGURE 30.3-2A, 0.6h=9.0'	
- ZONE 1'	23.4 PSF
- ZONE 1	40.7 PSF
- ZONE 2 - ZONE 3	53.7 PSF 53.7 PSF
4. UPLIFT ON ROOF TRUSSES	
- GROSS TRUSS UPLIFT (ULTIMATE) - NET TRUSS UPLIFT SATISFYING EQUATION 0.6D + 0.6W (ASD)	43.1 PSF 19.9 PSF
C. SEISMIC LOADS	
	II
2. SEISMIC IMPORTANCE FACTOR (Ie) 3. 0.2 SEC. MAPPED ACCELERATION PARAMETER (Ss)	1.0 0.099
4. 1 SEC. MAPPED ACCELERATION PARAMETER (S1)	0.068
5. SOIL SITE CLASS 6. 0.2 SEC. DESIGN ACCELERATION PARAMETER (SDS)	D 0.106
7. 1 SEC. DESIGN ACCELERATION PARAMETER (SD1)	0.109
8. SEISMIC DESIGN CATEGORY	
9. BUILDING - BASIC SEISMIC FORCE-RESISTING SYSTEM	STEEL SYSTEM NOT SPECIFICALLY DETAILED FOR SEISMIC RESISTANCE
10. BUILDING - DESIGN BASE SHEAR	0.035W
11. BUILDING - SEISMIC RESPONSE COEFFICIENT (Cs) 12. BUILDING - RESPONSE MODIFICATION COEFFICIENT (R)	0.035 3.0
13. BUILDING - ANALYSIS PROCEDURE	EQUIVALENT LATERAL FORCE
14. MTL AWNINGS - COMPONENT IMPORTANCE FACTOR (Ip) 15. MTL AWNINGS - RESPONSE MODIFICATION COEFFICIENT (Rp)	1.0 2.5
16. MTL AWNINGS - RESPONSE MODIFICATION COEFFICIENT (Rp) 16. MTL AWNINGS - COMPONENT AMPLICATION FACTOR (ap)	2.5 1.0
17. DUMPSTER SCREENWALL - COMPONENT IMPORTANCE FACTOR (Ie)	1.0
18. DUMPSTER SCREENWALL - RESPONSE MODIFICATION COEFFICIENT (R) 19. DUMPSTER SCREENWALL - COMPONENT DEFLECTION AMPLICATION FACTOR (Cd)	1.25 2.5
20. DUMPSTER SCREENWALL - DESIGN BASE SHEAR	0.084W
21. DUMPSTER SCREENWALL - DESIGN BASE SHEAR	0.084

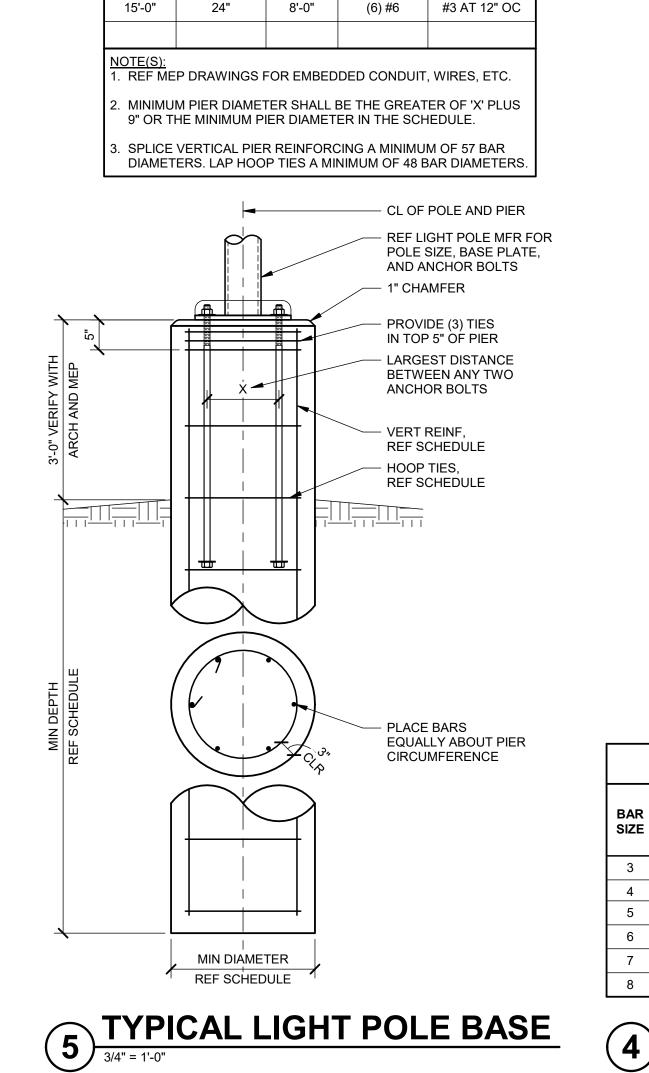
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DESIGN LOADS

			ices Depar it, Missouri 2024
SAT		ANG	DOT
			PROTOTYPE VERSION V2-B
& ASS Consulting 568 W. Plano Suite 200 Plano, TX 7509 CERTIFIC E Brian Kirk License No. ENGINEER	Structura Pkwy. Of 3 www.e CATE OF A 20120092 Ellison, P 20090072 OF RECC	I Engineers (972) 354-885 (972) 354-885 Illisongage.com UTHORITY 242 2.E. 270	5
	A		
	SHALL	VERIFY	
CONDITIONS AND JOB SITE AND NC OF ANY DIMEN OMISSIONS OR DIS BEGINNING OR FAI DO NOT SC	OTIFY TH NSIONAL SCREPA BRICATI	E ARCH ERROF NCIES B NG ANY WINGS	ITECT RS, EFORE WORK.
PROJECT INFOR PROJECT NO: ORIGINAL ISSUE: SCALE:	RMATI	04/	24-0087 /12/2024
DRAWN BY: CHECKED BY:		AS	NOTED EGA RBG
SHEET TITLE GEN STRUC INFOR	CTU	RAL	
SC)02	2	



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LIGHT POLE BASE SCHEDULE

VERTICAL

REINF

HOOP TIES

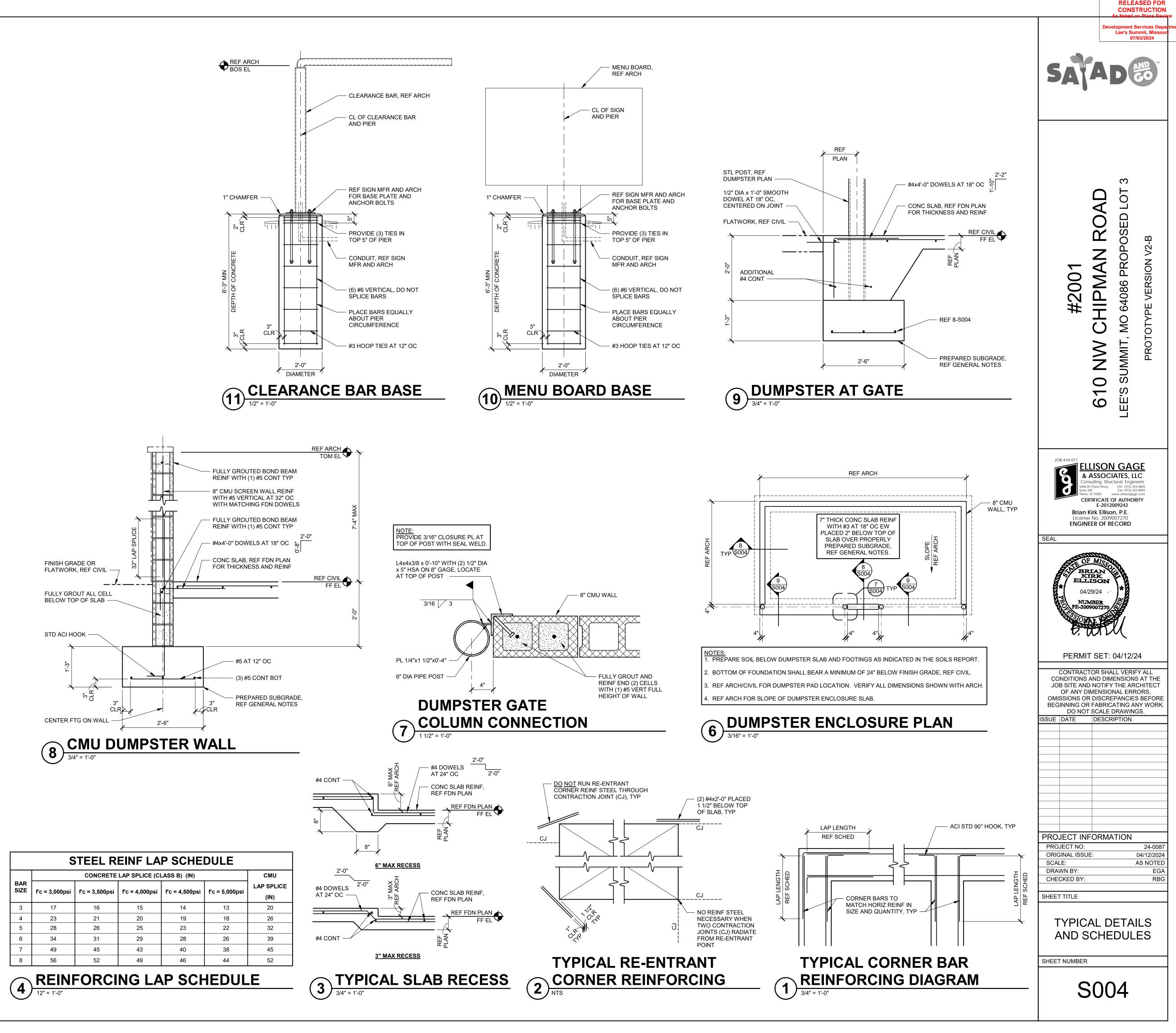
MIN

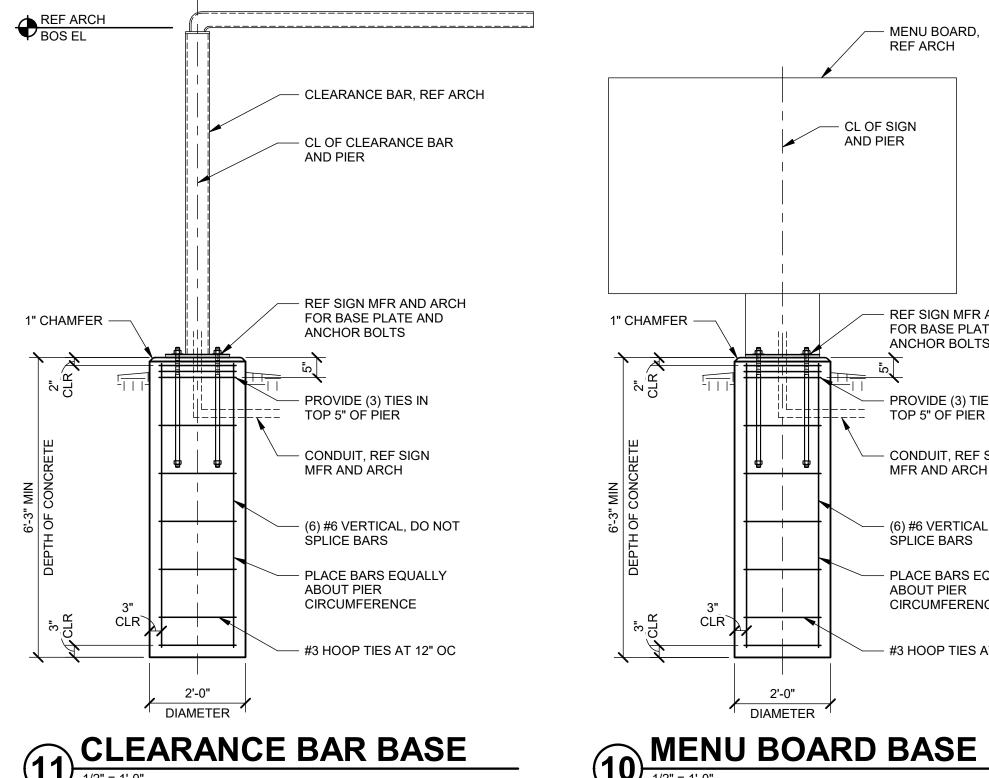
DEPTH

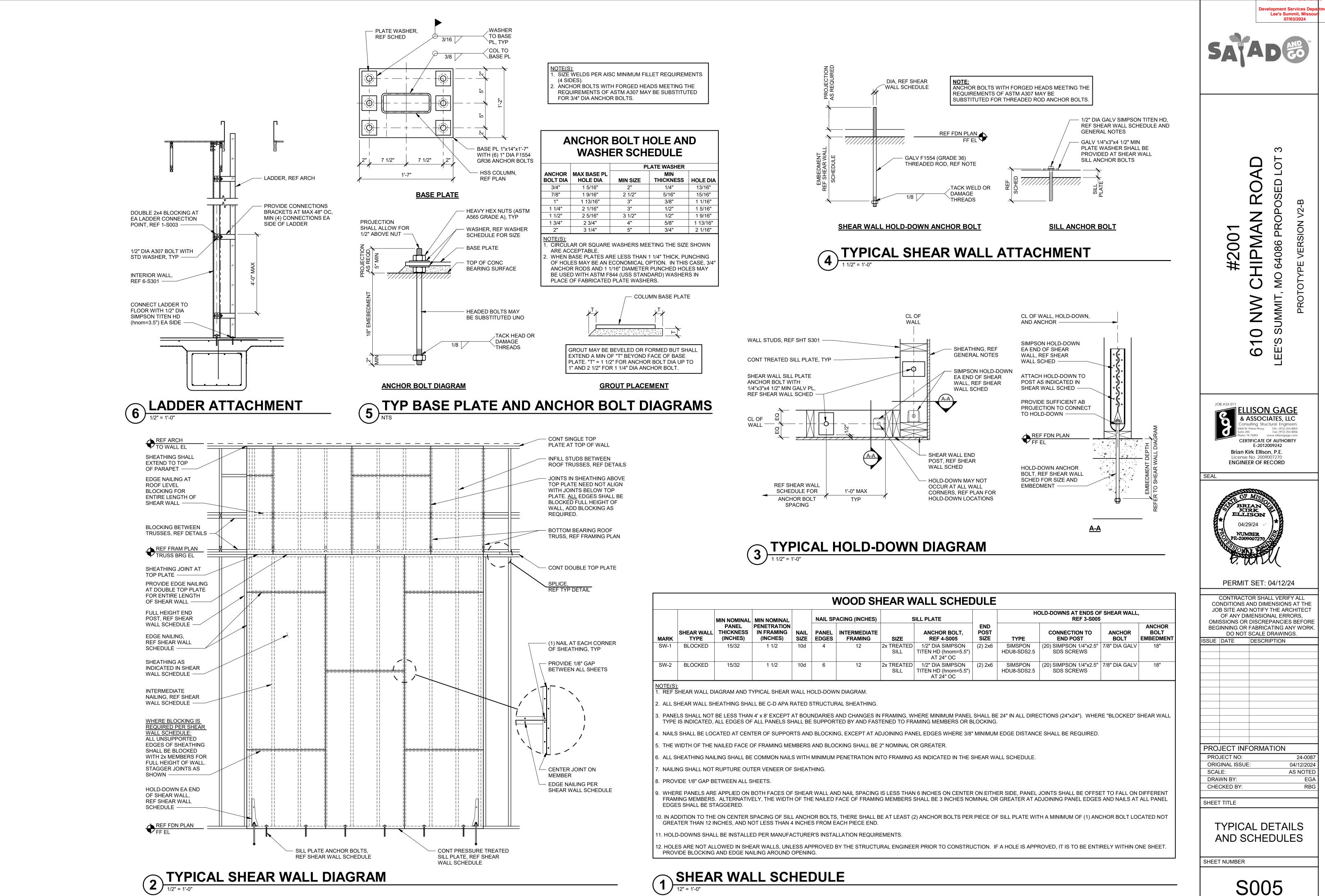
MAX MIN PIER

24"

POLE HT DIAMETER

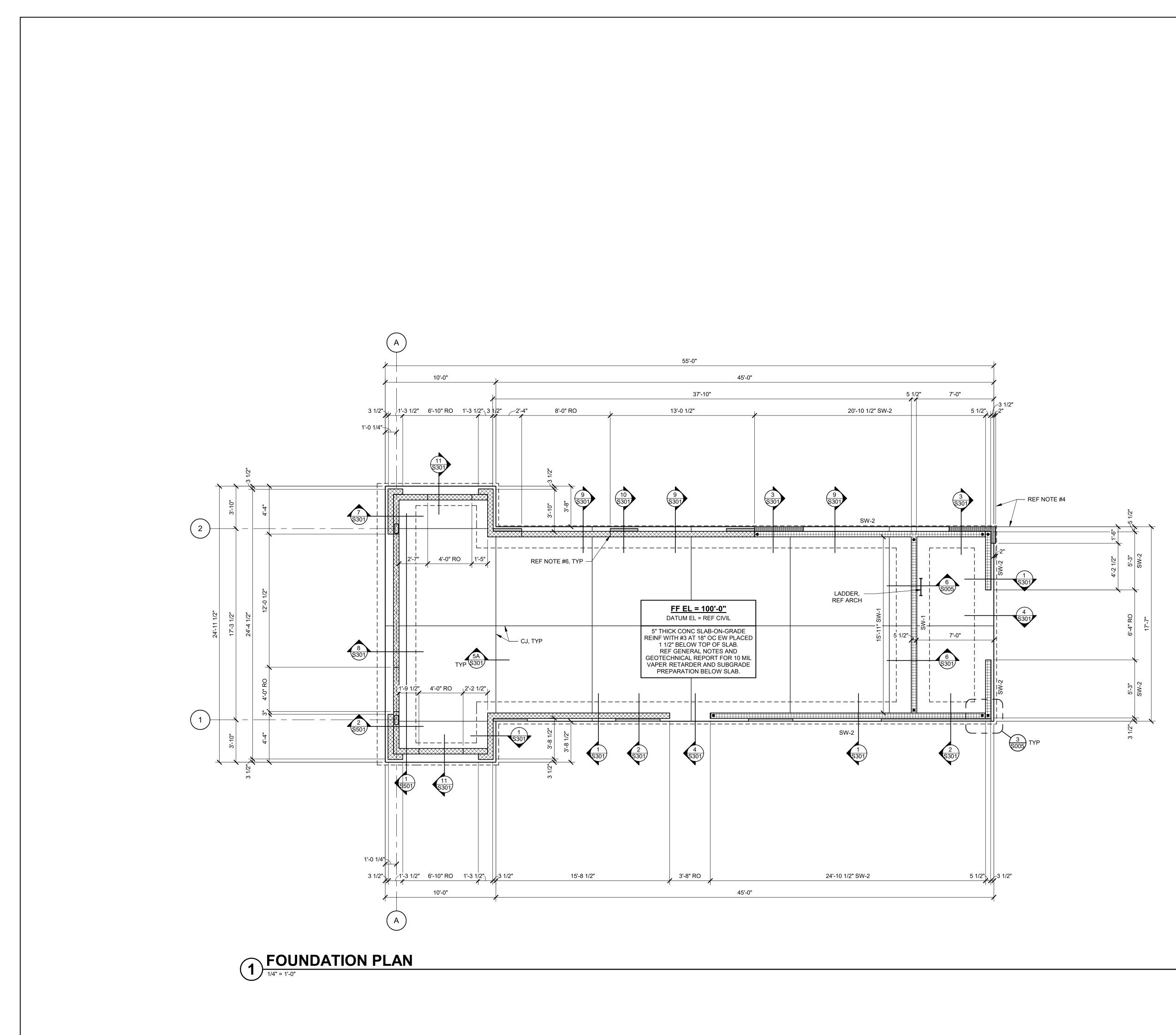




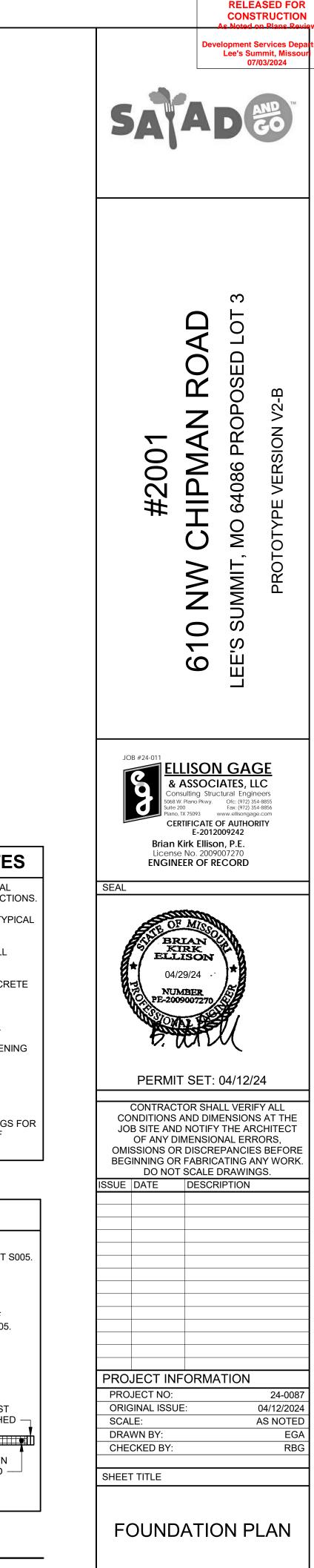


#2001	610 NW CHIPMAN ROAD	LEE'S SUMMIT, MO 64086 PROPOSED LOT 3	PROTOTYPE VERSION V2-B
Co 5068 Suite Planc CE Brian Licens		IATES, LI ctural Engin Ofc: (972) 35 Fax: (972) 35 www.ellisongag OF AUTHOR 009242 on, P.E. 007270	LC eers 4-8855 4-8856 e.com
A CALLER OF CALL	F MISS ILAN ISON /29/24 MBER 09007270		24
CONTRAC CONDITIONS JOB SITE AN OF ANY D OMISSIONS O BEGINNING OI	TOR SHA AND DIM D NOTIFY MENSIO R DISCRE R FABRIC T SCALE	LL VERIF ENSION THE AR NAL ERF PANCIE	FY ALL S AT THE CHITECT CORS, S BEFORE NY WORK.
PROJECT IN PROJECT NO: ORIGINAL ISSU SCALE: DRAWN BY:			24-0087 04/12/2024 AS NOTED EGA
DRAWN BY: CHECKED BY: SHEET TITLE TYPIC AND S			
SHEET NUMBER	2		

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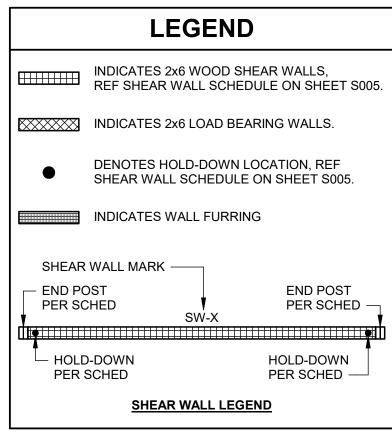


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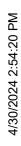


FOUNDATION PLAN NOTES	3
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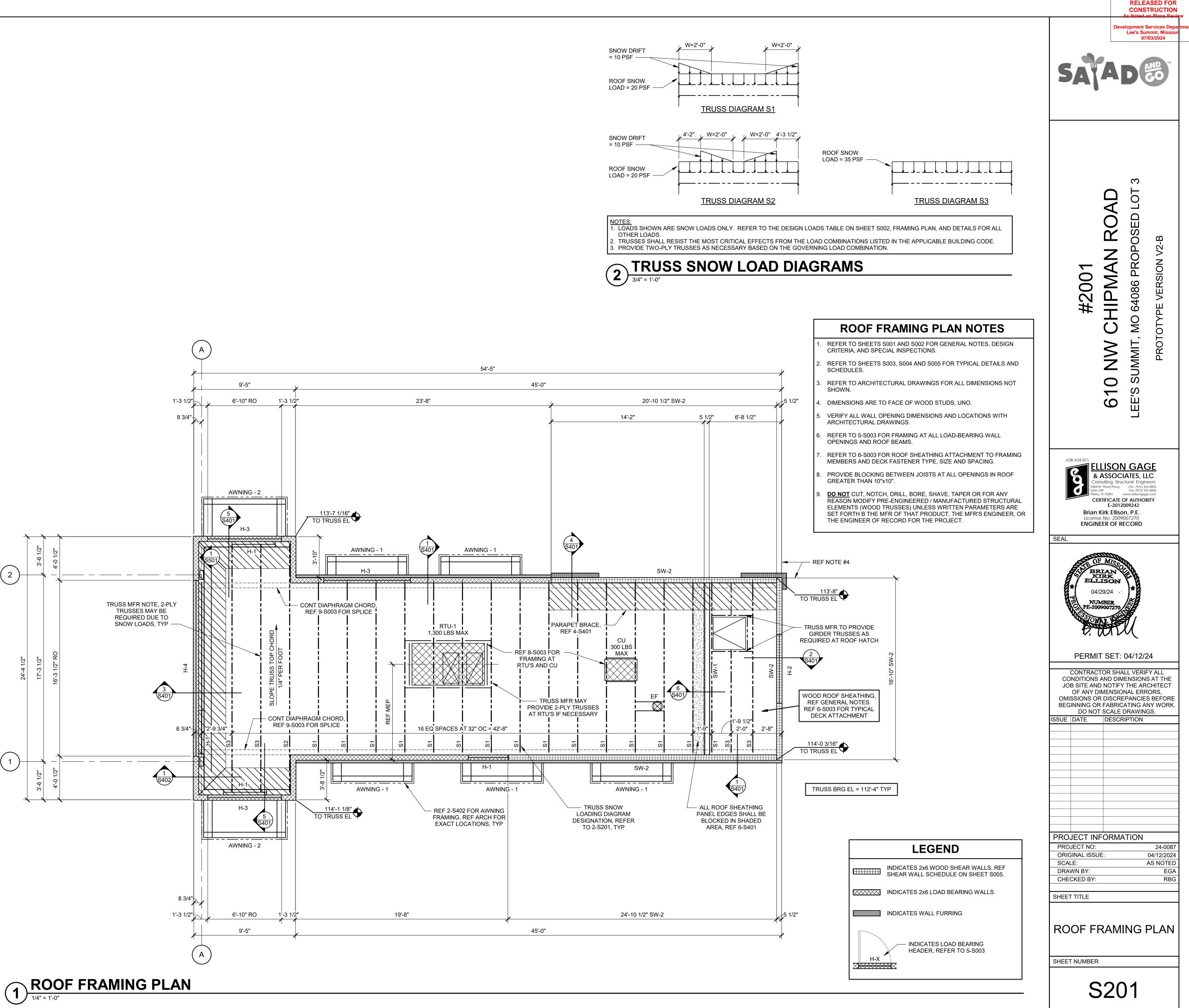
- 1. REFER TO SHEETS S001 AND S002 FOR GENERAL NOTES, DESIGN CRITERIA, AND SPECIAL INSPECTIONS.
- 2. REFER TO SHEETS S003, S004, AND S005 FOR TYPICAL DETAILS AND SCHEDULES.
- 3. REFER TO ARCHITECTURAL DRAWINGS FOR ALL DIMENSIONS NOT SHOWN.
- 4. DIMENSIONS ARE TO EXTERIOR FACE OF CONCRETE SLAB AND FACE OF STUD, REFER TO DETAILS.
- 5. VERIFY ALL WALL OPENING DIMENSIONS AND LOCATIONS WITH ARCHITECTURAL DRAWINGS.
- 6. REFER TO 5-S003 FOR JAMB EACH SIDE OF OPENING AT LOAD BEARING WALLS.
- 7. REFER TO ARCH SLAB PLAN AND PLUMBING DRAWINGS FOR DRAIN LOCATIONS AND SLAB DEPRESSIONS AT DRAINS.
- 8. REFER TO ARCHITECTURAL AND CIVIL DRAWINGS FOR SIZE AND LOCATION OF ALL EXTERIOR PADS, IF APPLICABLE.



SHEET NUMBER

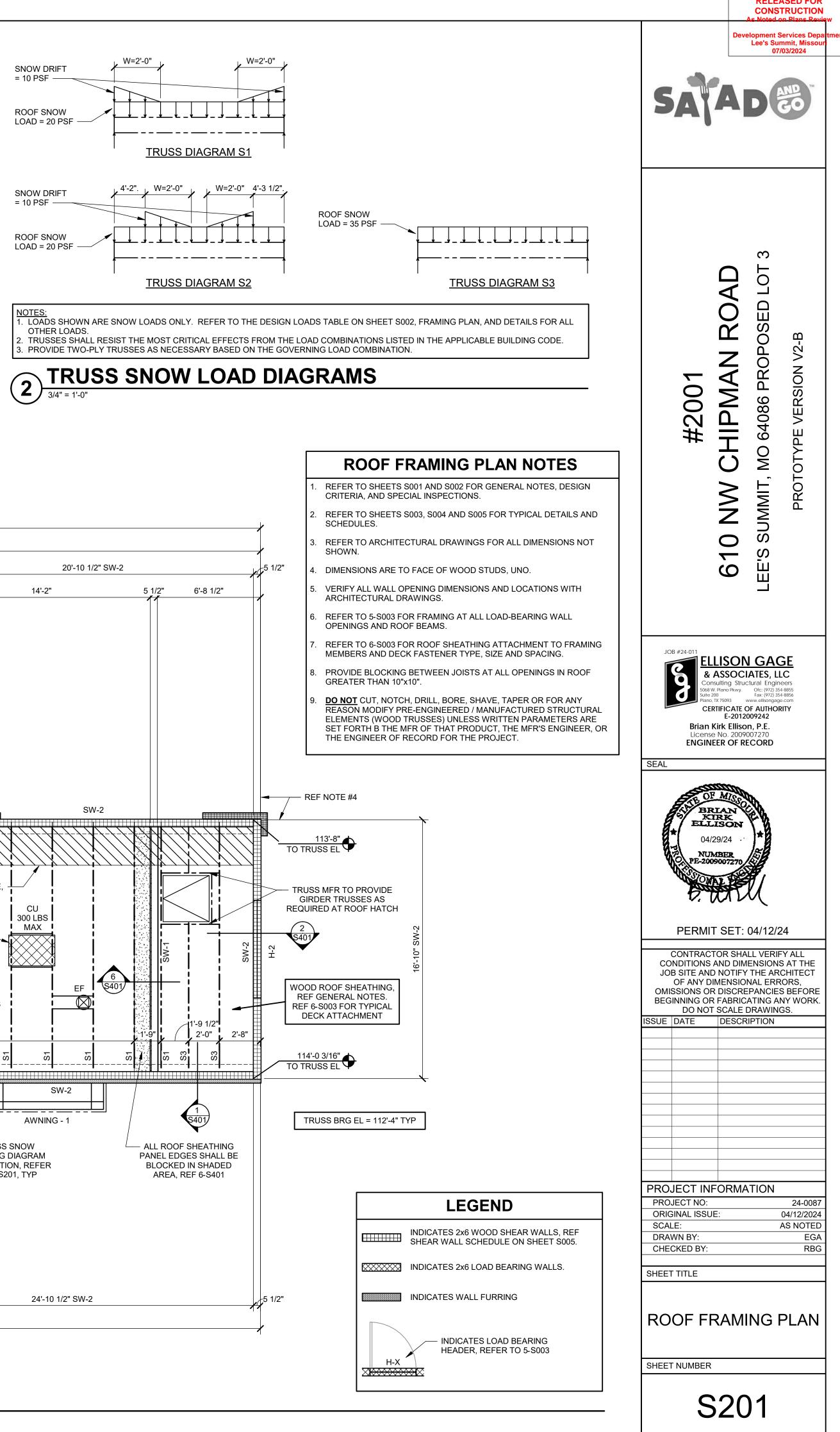


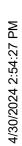


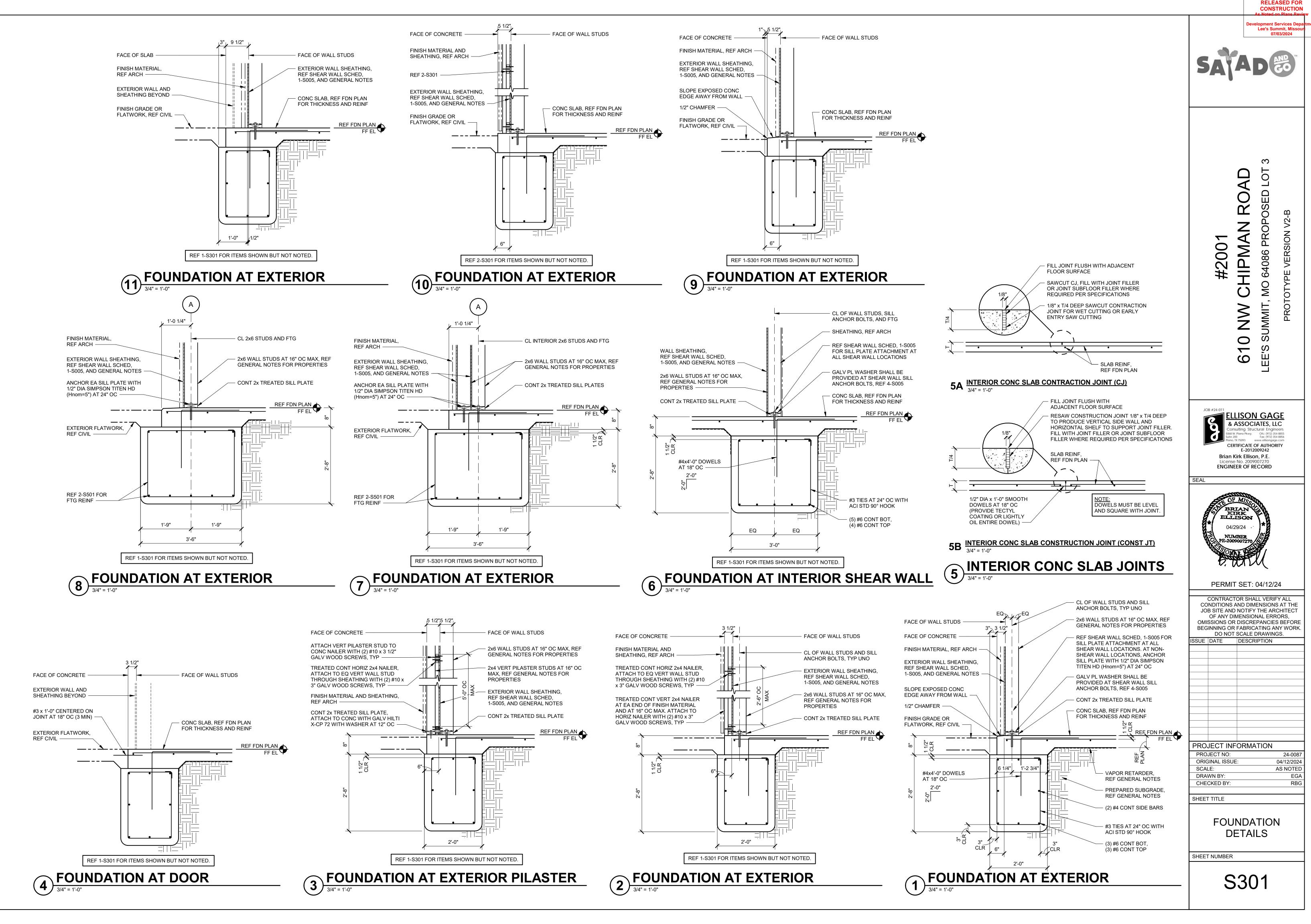


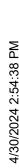
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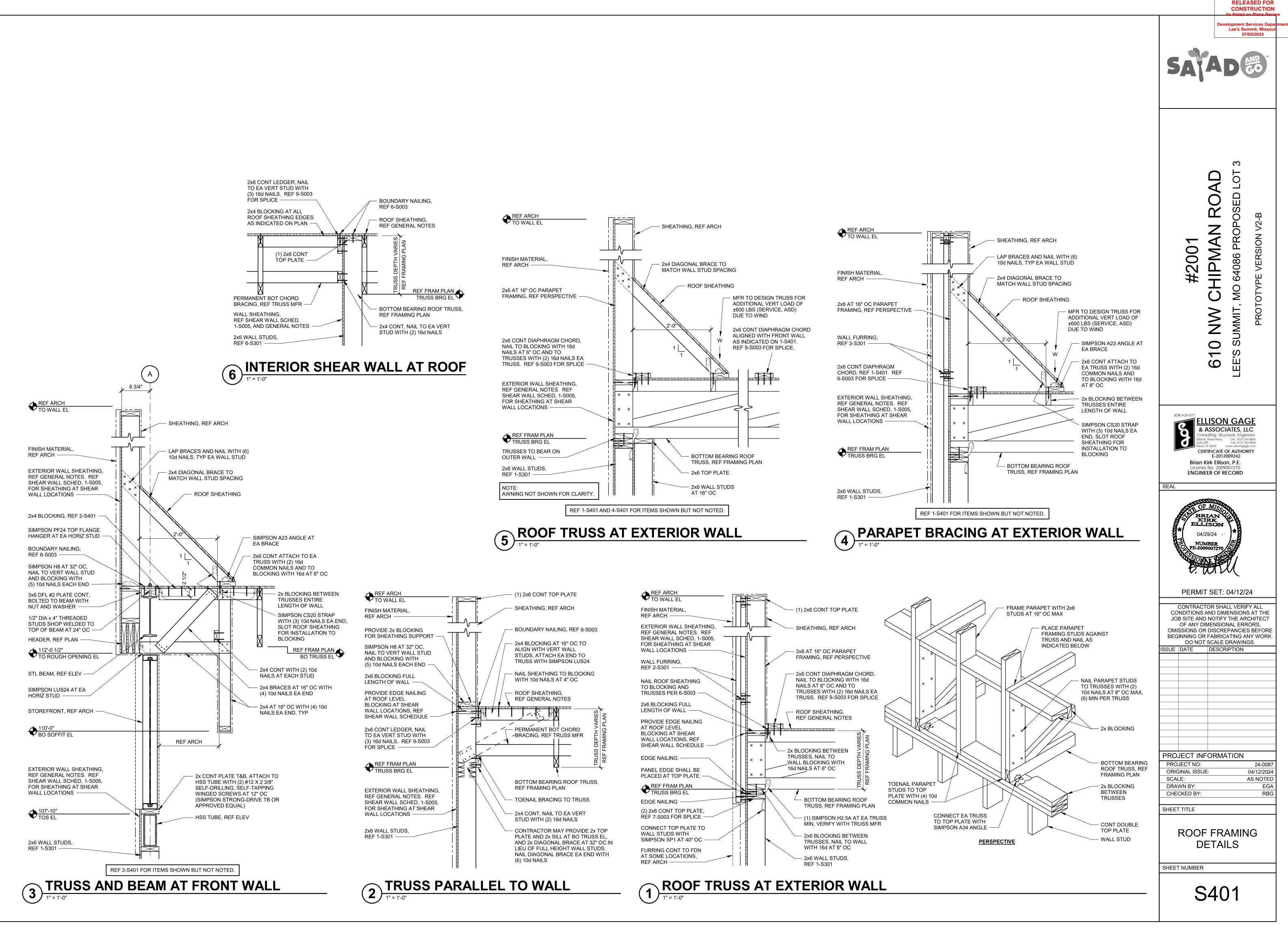
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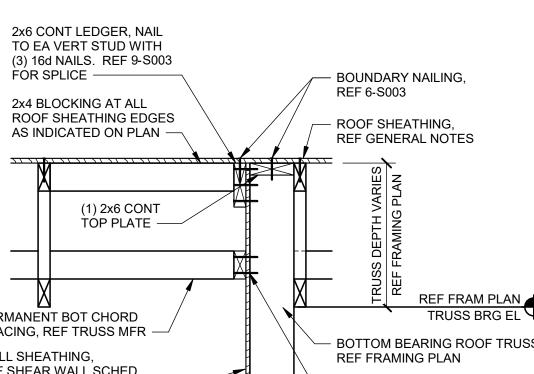


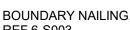


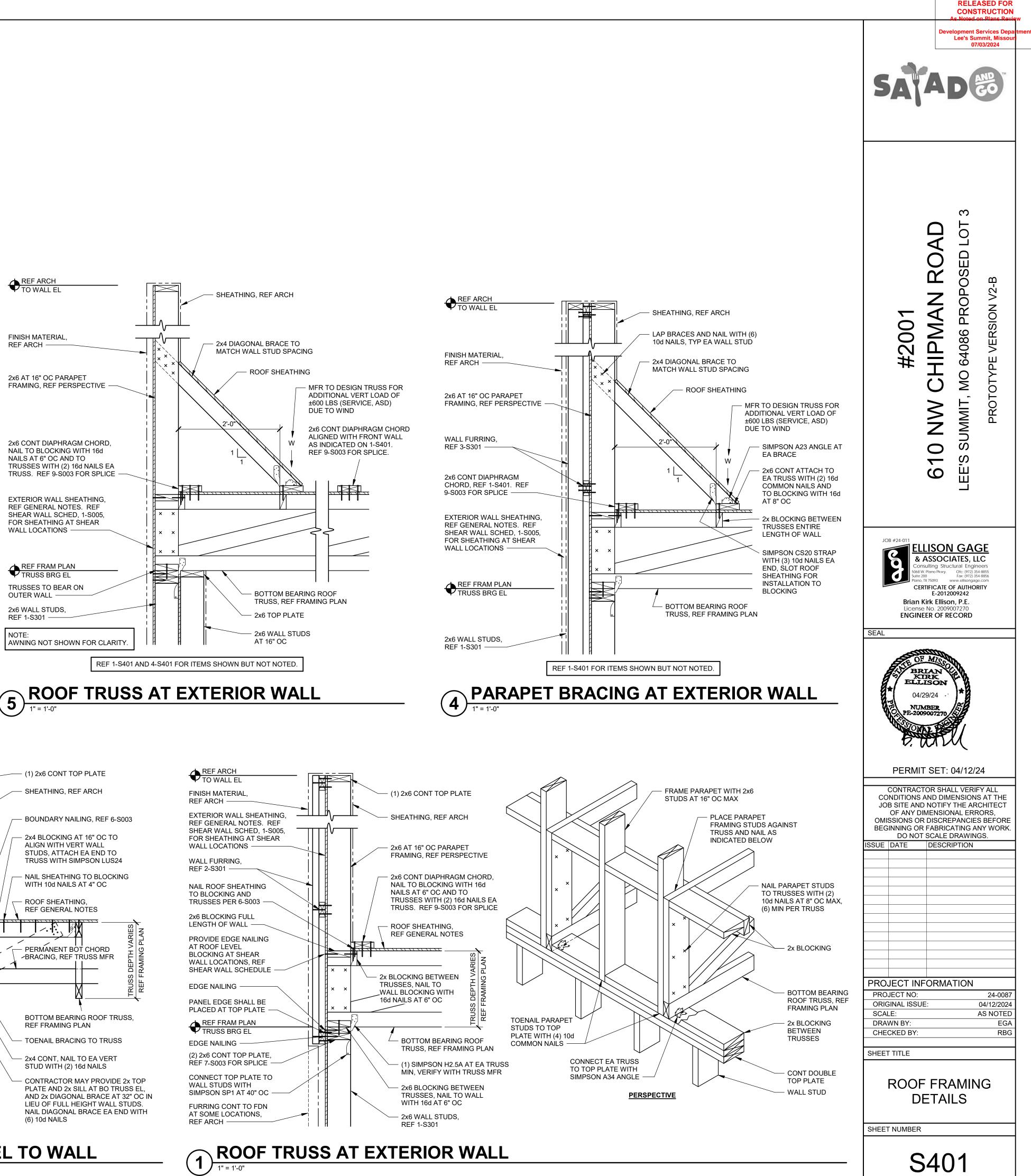


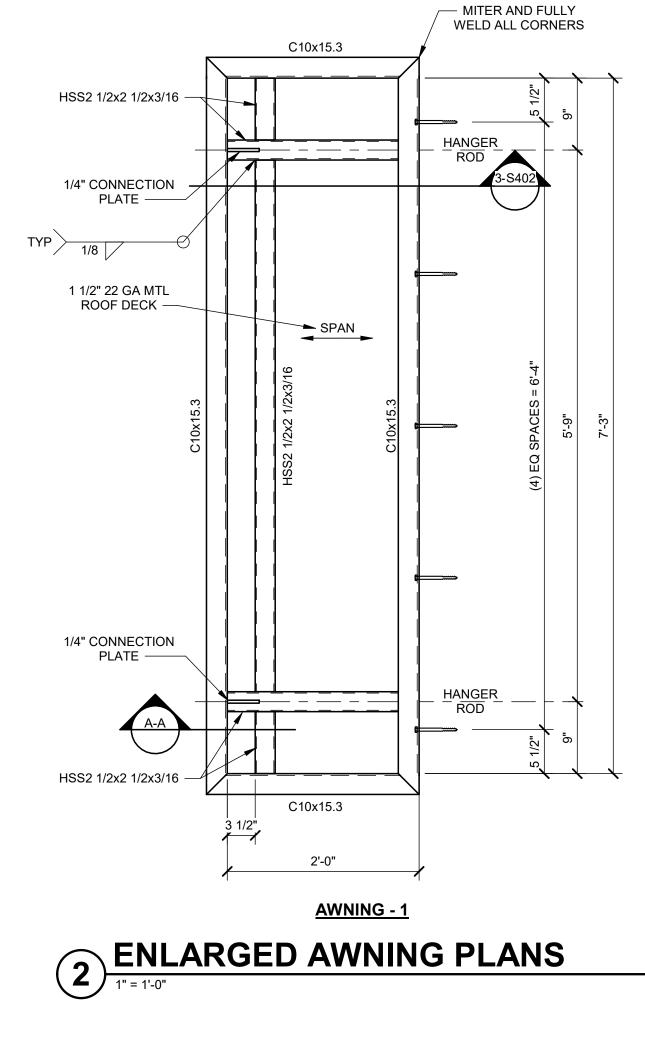


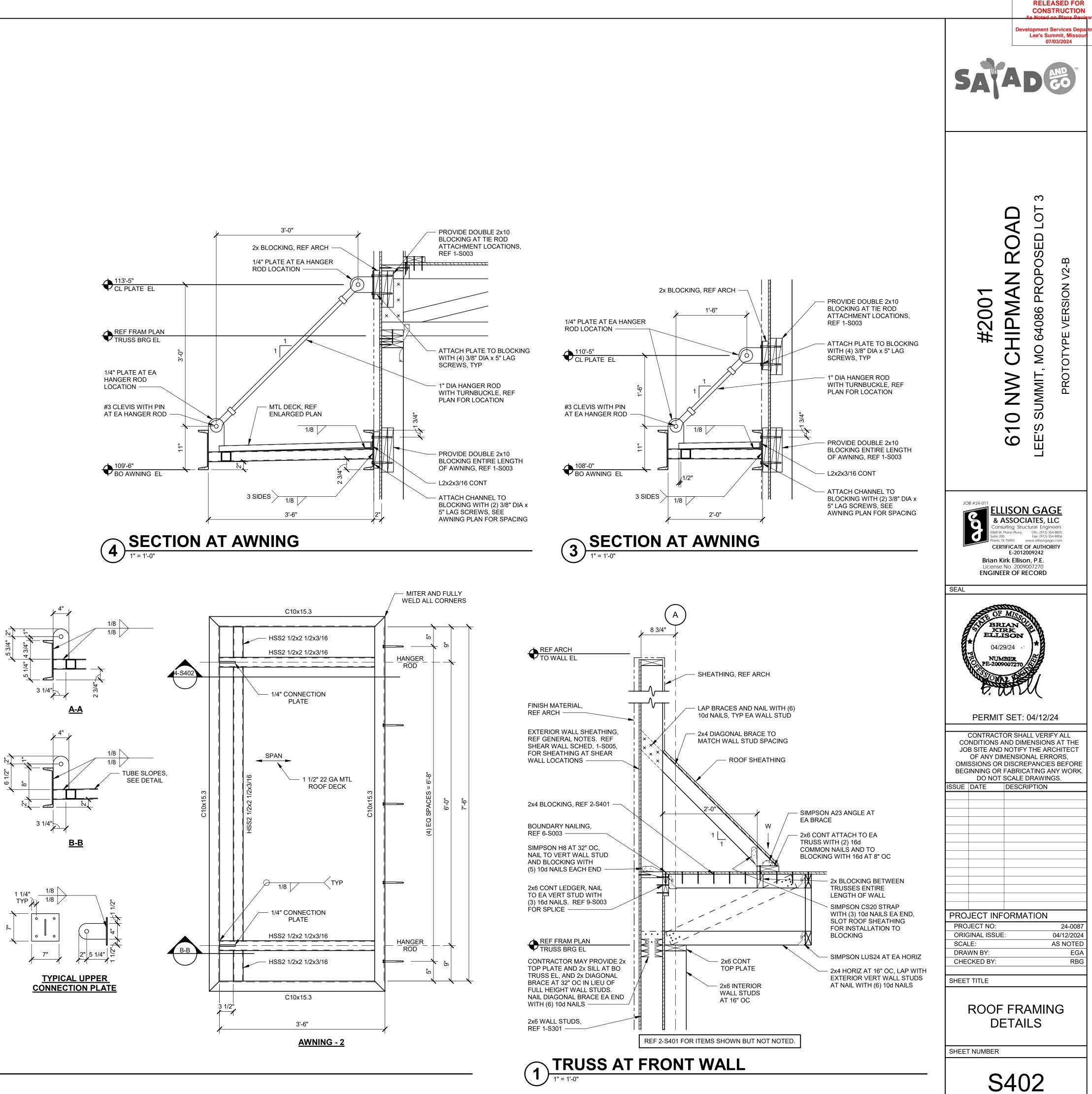


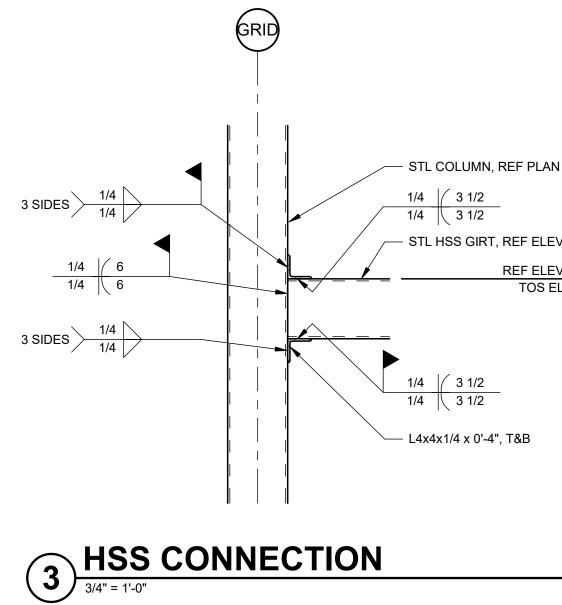












2 FOUNDATION AT MOMENT FRAME

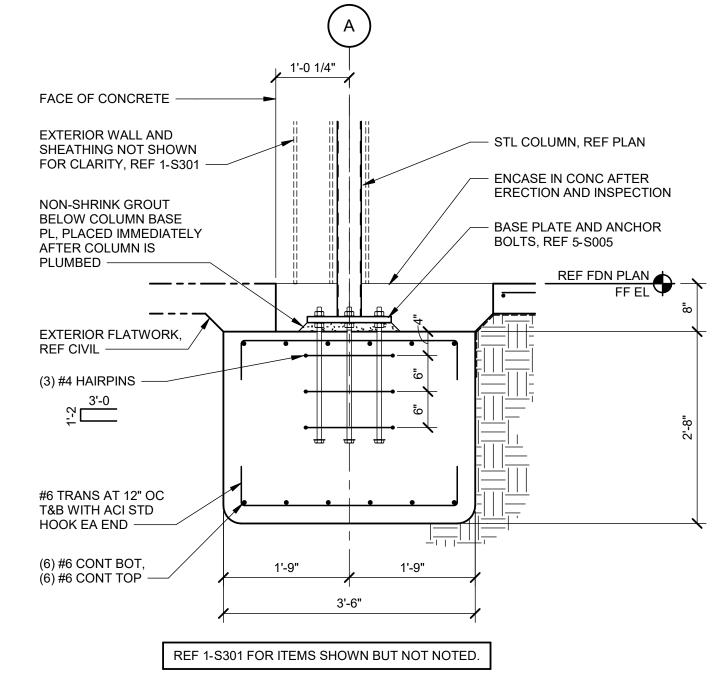
– L4x4x1/4 x 0'-4", T&B

 1/4
 3 1/2

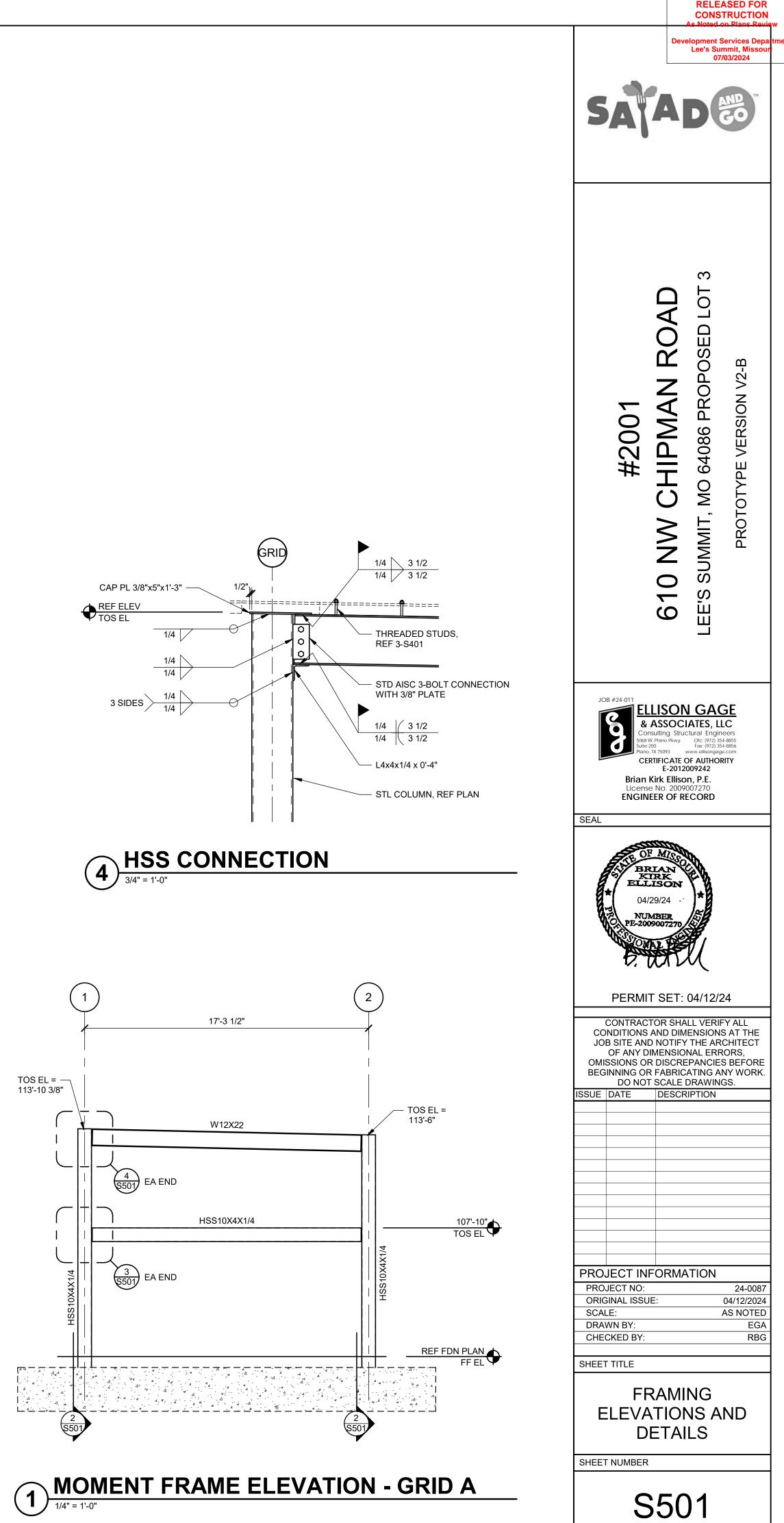
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 - STL HSS GIRT, REF ELEV REF ELEV TOS EL



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SLAB PLAN GENERAL NOTES A. CONTRACTOR TO COORDINATE THE LOCATION OF ALL FLOOR DRAINS AND FLOOR SINKS WITH PLUMBING DRAWINGS AND

- KITCHEN DRAWINGS. B. CONTRACTOR TO COORDINATE THE LOCATION OF ALL FLOOR OUTLETS WITH OWNER, ARCHITECT AND ELECTRICAL DRAWINGS.
- C. COORDINATE FLOOR SINK ELEVATION WITH LOCAL JURISDICTION, TYP.

SLAB PLAN KEYNOTES

- 1. SLAB EDGE DIMENSION START POINT.
- FLOOR DRAIN, REF: PLUMBING.
 PRE-MANUFACTURED WALK IN COOLER BY OWNER.
- 4. MOP SINK PENETRATION LOCATION, INSTALL PER
- MANUFACTURER SPECIFICATIONS.
- 5. FLOOR SINK TYP, REF: PLUMBING. ALIGN TO FINISH FLOOR.
- 6. WASTELINE IN CENTER OF WALL FOR SINK, REF: PLUMBING.
- 7. TOILET PENETRATION, REF: PLUMBING.
- 8. 1" HME CONDUIT STUBBED THROUGH SLAB INTO WALL
- 9. COLUMN EMBEDDED IN WALL, REF. STRU. DIMENSIONED TO CENTER.

10. FLOOR CLEAN OUT, TYP. REF: PLUMBING

DIMENSION NOTES

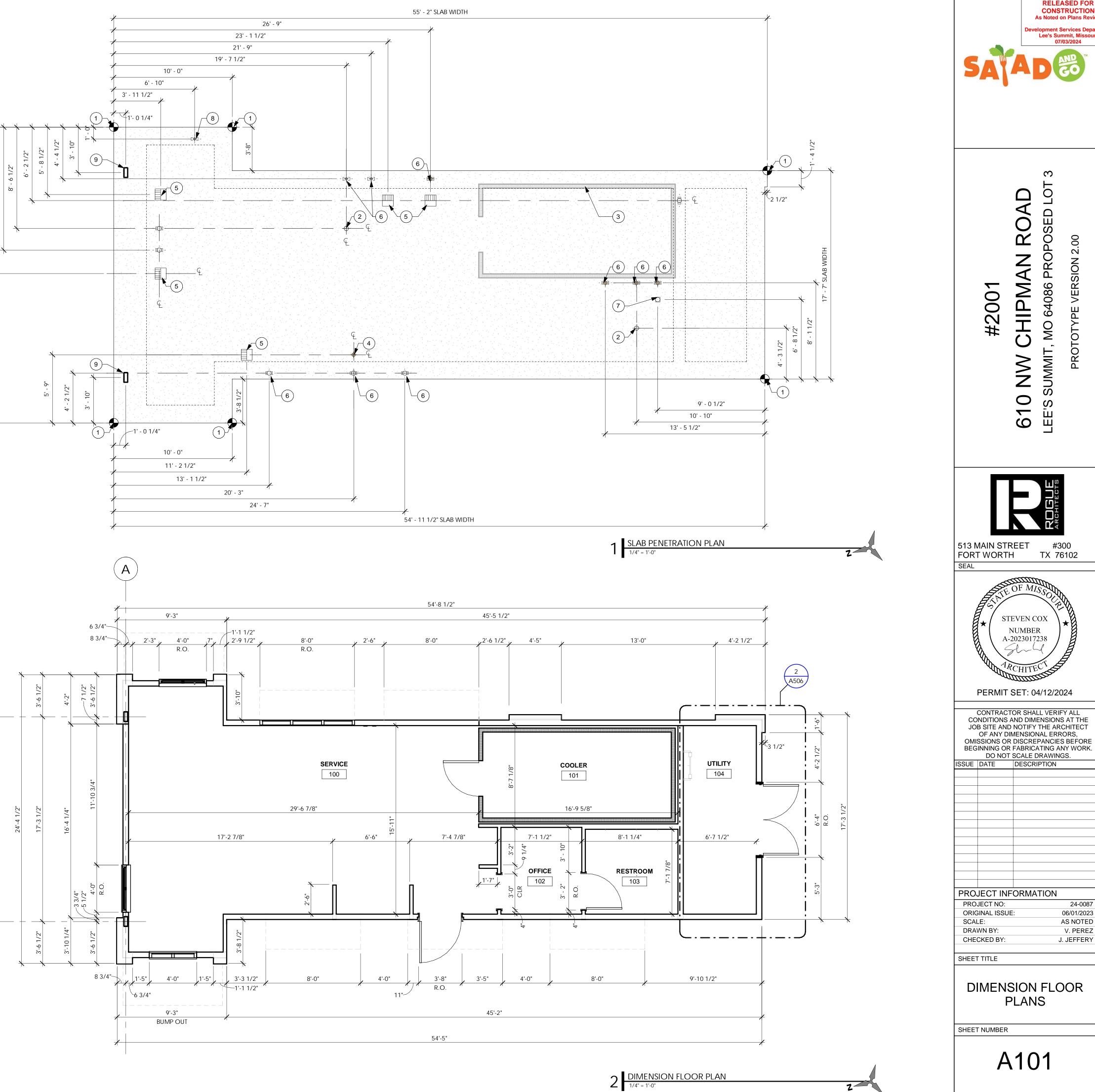
- 1. ALL PLAN DIMENSIONS, UNLESS OTHERWISE NOTED, ARE TO: A. FACE OF STUD
- B. CENTERLINE OF DOOR OR WINDOWC. EDGE OF SLAB EDGE
- 2. NOTED DIMENSIONS SHALL TAKE PRECEDENCE OVER SCALE DIMENSIONS; DETAILS OVER SMALLER SCALE DRAWINGS.
- 3. "FINISH FLOOR" REFERS TO TOP OF SLAB.
- 4. VERIFY ALL ROUGH-IN, CONCRETE PAD, OR PLATFORM DIMENSIONS FOR EQUIPMENT PROVIDED IN THIS PROJECT OR BY OTHERS.
- 5. CEILING HEIGHT DIMENSIONS ARE TO FINISHED SURFACES, UNLESS NOTED OTHERWISE.

FLOOR PLAN GENERAL NOTES:

- A. GENERAL CONTRACTOR SHALL VERIFY ALL CONDITIONS PRIOR TO CONSTRUCTION. REPORT ANY SIGNIFICANT DISCREPANCIES TO THE ARCHITECT.
- B. APPROVED SIGN INDICATING MAXIMUM OCCUPANCY FOR THE ROOM SHALL BE LOCATED NEAR MAIN EXIT. FINAL LOCATION SHALL BE VERIFIED BY FIRE MARSHAL.
- C. DO NOT SCALE DRAWINGS.
- D. PROVIDE BLOCKING IN WALLS FOR WALL MOUNTED EQUIPMENT/ACCESSORIES PER PLAN.
- E. REFER TO EQUIPMENT PLAN SHEET FOR ALL EQUIPMENT SCHEDULE INFORMATION AND LAYOUT.
- F. DIMENSION SHOWN ON THIS PLAN IS FROM FACE OF STUD TO FACE OF STUD AT INTERIOR, UNO.
- G. GENERAL CONTRACTOR TO COORDINATE ALL FLOOR SINKS AND FLOOR DRAINS WITH EQUIPMENT PLAN PRIOR TO PLACEMENT
- H. PROVIDE INTERNAL WALL BLOCKING FOR LADDERS, GRAB BARS, MIRRORS, COUNTERTOPS, CEILING FANS, AND OVERHEAD SHELVING.
- I. COORDINATE WITH STRUCTURAL, MECHANICAL, PLUMBING, ELECTRICAL, CIVIL DRAWINGS AND SOIL REPORTS.
- J. WALL DIMENSIONS SHOWN FROM FACE OF STUD TO FACE OF STUD, UNO.
- K. WALLS SHOWN ON ALIGNMENT ARE IN ALIGNMENT WITH FINISH SURFACE
- L. FLOOR LEVEL 0'-0" IS TOP OF SLAB PER ARCHITECTURAL PLAN AND ELEVATION. THIS DOES NOT INCLUDE FLOOR FINISH. REFER TO CIVIL DRAWINGS FOR ACTUAL GRADE LEVEL.

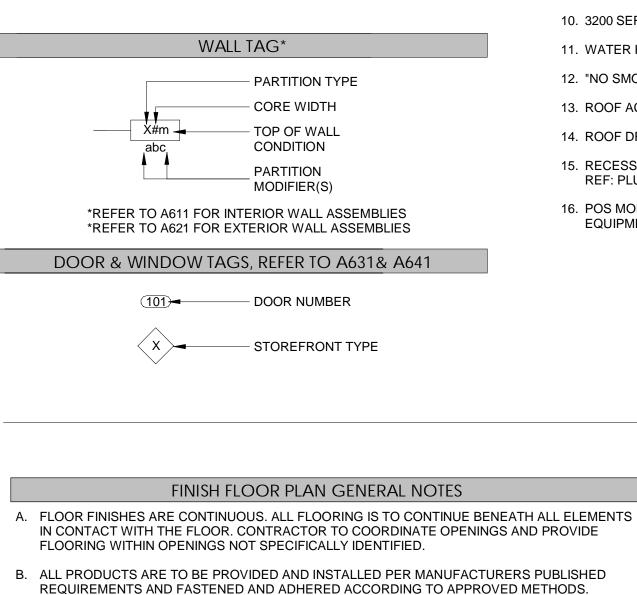
WAL	LTAG*
	 PARTITION TYPE CORE WIDTH TOP OF WALL CONDITION PARTITION MODIFIER(S) NTERIOR WALL ASSEMBLIES XTERIOR WALL ASSEMBLIES
DOOR & WINDOW TAC	GS, REFER TO A631& A641
	— DOOR NUMBER
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(1



FLOOR PLAN GENERAL NOTES

- A. GENERAL CONTRACTOR SHALL VERIFY ALL CONDITIONS PRIOR TO CONSTRUCTION. REPORT ANY SIGNIFICANT DISCREPANCIES TO THE ARCHITECT.
- B. APPROVED SIGN INDICATING MAXIMUM OCCUPANCY FOR THE ROOM SHALL BE LOCATED NEAR MAIN EXIT. FINAL LOCATION SHALL BE VERIFIED BY FIRE MARSHAL
- C. DO NOT SCALE DRAWINGS.
- D. PROVIDE BLOCKING IN WALLS FOR WALL MOUNTED EQUIPMENT/ACCESSORIES PER PLAN.
- E. REFER TO EQUIPMENT PLAN SHEET FOR ALL EQUIPMENT SCHEDULE INFORMATION AND LAYOUT.
- F. DIMENSION SHOWN ON THIS PLAN IS FROM FACE OF STUD TO FACE OF STUD AT INTERIOR, UNO.
- G. GENERAL CONTRACTOR TO COORDINATE ALL FLOOR SINKS AND FLOOR DRAINS WITH EQUIPMENT PLAN PRIOR TO PLACEMENT
- H. PROVIDE INTERNAL WALL BLOCKING FOR LADDERS, GRAB BARS, MIRRORS, COUNTERTOPS, CEILING FANS, AND OVERHEAD SHELVING.
- I. COORDINATE WITH STRUCTURAL, MECHANICAL, PLUMBING, ELECTRICAL, CIVIL DRAWINGS AND SOIL REPORTS.
- J. WALL DIMENSIONS SHOWN FROM FACE OF STUD TO FACE OF STUD, UNO.
- K. WALLS SHOWN ON ALIGNMENT ARE IN ALIGNMENT WITH FINISH SURFACE
- L. FLOOR LEVEL 0'-0" IS TOP OF SLAB PER ARCHITECTURAL PLAN AND ELEVATION. THIS DOES NOT INCLUDE FLOOR FINISH. REFER TO CIVIL DRAWINGS FOR ACTUAL GRADE LEVEL.



- C. ALL EXPOSED SURFACES ARE TO BE PREPARED TO RECEIVE NEW FINISHES.
- D. ALL WIRE FRAMES, CONDUIT, ACCESS PANELS, GILLES, FIRE EXTINGUISHER CABINETS, ELECTRICAL PANELS AND MECHANICAL DEVICES SHALL BE FINISHED TO MATCH THE ADJACENT SURFACE UNLESS NOTED OTHERWISE.
- E. CONTRACTOR TO REPORT ANY DISCREPANCIES IN PRODUCT QUALITY TO ARCHITECT FOR
- F. COMMENCEMENT OF WORK ON ANY SURFACE BY THE CONTRACTOR MEANS ACCEPTANCE OF THOSE SURFACES.
- G. FLOOR TRANSITION HEIGHTS NOT TO EXCEED 1/4" MAXIMUM. PROVIDE APPROPRIATE TRANSITION AT EACH LOCATION WHERE FLOOR MATERIAL CHANGES.
- H. RUN FLOORING UP TO MILLWORK AND UNDER OPEN COUNTERTOPS.
- I. COORDINATE COUNTERTOP FINISHES WITH OWNER
- J. THE PAINT COATING SYSTEM SHALL INCLUDE A PRIMER THAT SHALL CONTRAST WITH THE WHITE OR SPECIAL COLOR SELECTED FOR THE INTERMEDIATE AND FINISH COATS TO ALLOW OWNER AND CONTRACTOR TO VERIFY EACH COAT OF PAINT HAS BEEN INSTALLED
- K. COMPLY WITH REQUIREMENTS OF IBC SECTION 803.1.2, TABLE 805.13 FOR INTERIOR FINISH FLAME SPREAD CLASSIFICATION. CLASS C RATING FOR NON-SPRINKLERED SPACES.
- WALK IN COOLER SHALL COMPLY WITH IBC SECTION 2603 CENTER AND FREEZER WALLS. FOAM PLASTIC INSTALLED IN A MAXIMUM THICKNESS OF 10 INCHES IN COOLER AND FREEZER WALL SHALL
- a. HAVE FLAME SPREAD INDEX OF 25 OR LESS AND SMOKE DEVELOPED INDEX OF NOT MORE THAN 450, WHERE TESTED IN 4 INCHES (102mm) THICKNESS b. HAVE FLASH IGNITION AND SELF-IGNITION TEMPERATURES OF NOT LESS THAN 600 DEG F
- TO 800 DEG F. c. HAVE A COVERING OF NOT LESS THAN 0.032 INCH ALUMINUM OR CORROSION RESISTANT STEEL HAVE A BASE METAL THICKNESS NOT LESS THAN 0.0160 INCH (0.4mm) AT ANY POINT.

	FLOOR FINISH SCHEDULE					
MARK	MATERIAL	DESCRIPTION				
QT-1	QUARRY TILE	DALTILE - HARVEST RED BLEND 0Q70(1) 6x6 SMOOTH MATTE FINISH				
		GROUT - MAPEI KERACOLOR GROUT 10 BLACK 3/8" GROUT LINE				
BASE FINISH SCHEDULE						
MARK	MATERIAL	DESCRIPTION				
QT-B	QUARRY TILE	DALTILE - HARVEST RED BLEND 5x6 COVE BASE Q-3565				
	FINISH SYMBOL LEGEND					
- FLOOR FINISH, REFER TO "FLOOR FINISH SCHEDULE"						
XXX XXX XXX	XXX BASE FINISH, REFER TO "BASE FINISH SCHEDULE"					

- WALL FINISH, REFER TO "INTERIOR WALL FINISH SCHEDULE"

DIMENSION NOTES

- 1. ALL PLAN DIMENSIONS, UNLESS OTHERWISE NOTED, ARE TO: A. FACE OF STUD B. CENTERLINE OF DOOR ON CENTERLINE OF ROOM OR CORRIDOR.
- 2. NOTED DIMENSIONS SHALL TAKE PRECEDENCE OVER SCALE DIMENSIONS; DETAILS OVER SMALLER SCALE DRAWINGS.
- 3. "T.O.SLAB" REFERS TO TOP OF SLAB
- 4. VERIFY ALL ROUGH-IN, CONCRETE PAD, OR PLATFORM DIMENSIONS FOR EQUIPMENT PROVIDED IN THIS PROJECT, OR BY OTHERS.
- 5. CEILING HEIGHT DIMENSIONS ARE TO FINISHED SURFACES, UNLESS NOTED OTHERWISE.

FLOOR PLAN KEYNOTES

- 1. SERVICE WINDOW.
- 2. ADA COMPLIANT THRESHOLD, REF: A631.
- 3. PRE-MANUFACTURED WALK IN COOLER BY OWNER.
- 4. CONCRETE SLAB WITH BROOM FINISH.
- 5. DASHED LINE INDICATES CANOPY ABOVE.
- 6. MOP SINK PENETRATION LOCATION, INSTALL PER MANUFACTURER SPECIFICATIONS.
- 7. SERVICE WINDOW W/ 4" DEEP SOLID SURFACE SHELF. REF: 11/A503
- 8. PROVIDE IN-WALL BLOCKING TO INSTALL COUNTERTOP SUPPORTS. REFER TO A400
- 9. ELECTRICAL SERVICE ENTRY AND TELEPHONE SERVICE LOCATION, REF: ELEC.
- 10. 3200 SERIES RECESSED KNOXBOX AT 60" AFF
- 11. WATER HEATER WITH MOP SINK BELOW
- 12. "NO SMOKING" SIGN LOCATION
- 13. ROOF ACCESS LADDER; REF: A506
- 14. ROOF DRAIN LEADERS
- 15. RECESSED COVERED HOSE BIB, ZURN WALL HYDRANT Z1350. REF: PLUMB, REF: 9/A504
- 16. POS MONITOR MOUNTED ON STAINLESS STEEL SHELVES BY OWNER. REF: EQUIPMENT PLAN, TYP

HEALTH DEPARTMENT NOTES

- A. WALK IN COOLER WALLS, CEILINGS, AND FLOOR / WALL JUNCTURES SHALL BE METAL OR EQUAL AND PROPERLY COVED.
- B. PROVIDE 2/3" RADIUS QUARRY TILE COVE BASE.
- C. GROUT AND MORTAR SHALL BE SEALED, SMOOTH AND FINISHED FLUSH WITH THE SURFACE OF ALL TILES, BRICK, STONE, AND OTHER SIMILAR SURFACES. IF EPOXY GROUT NOT USED, GROUT NEEDS TO BE SEALED.

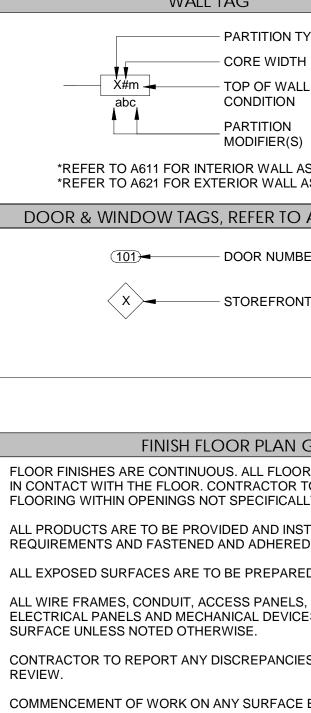
FINISH FLOOR PLAN KEYNOTES

1. TILE TO CONTINUE UNDER COOLER WALLS.

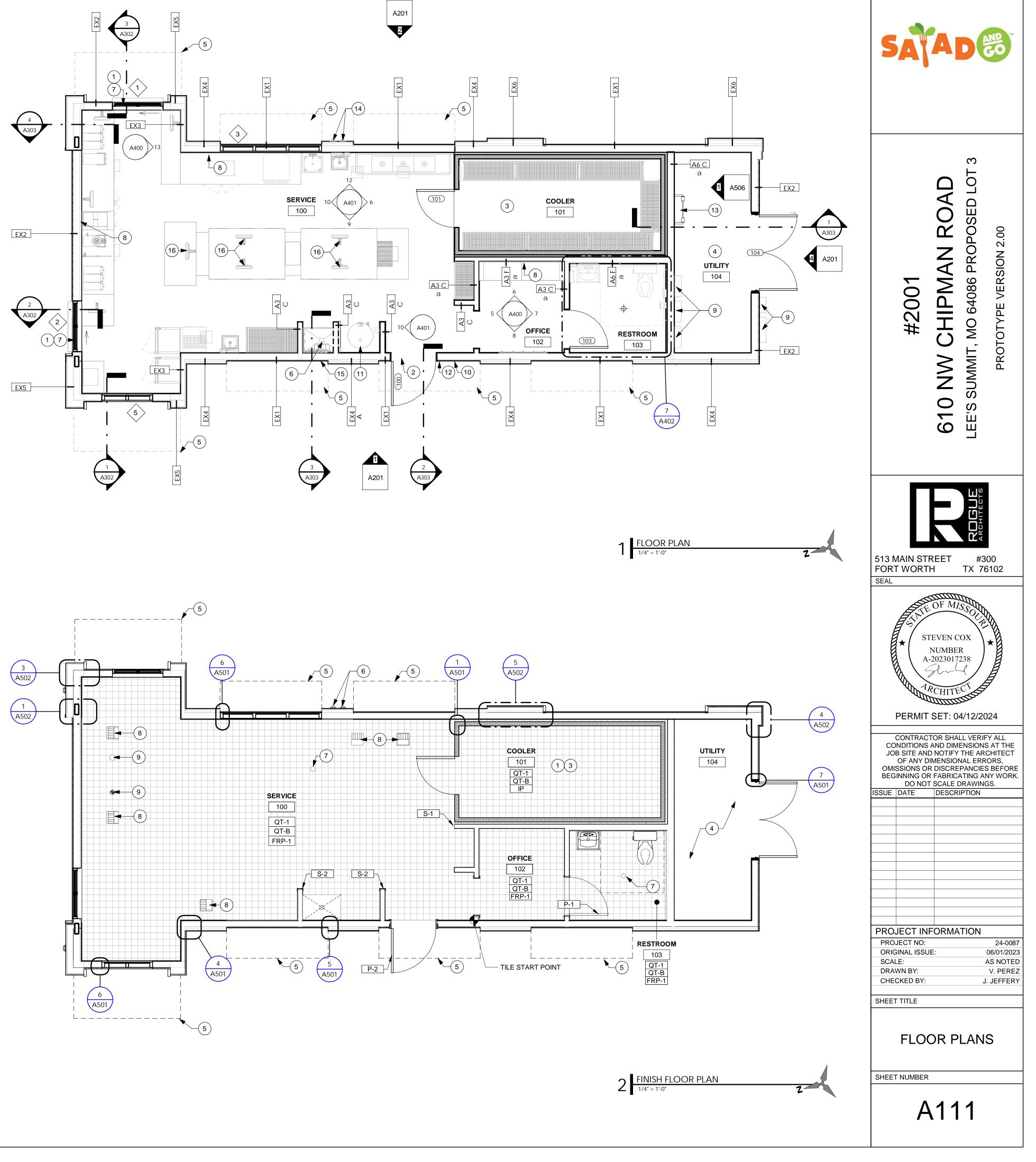
- 2. ADA COMPLIANT THRESHOLD, REF: A631.
- 3. PRE-MANUFACTURED WALK IN COOLER BY OWNER.
- 4. CONCRETE SLAB WITH BROOM FINISH.
- 5. DASHED LINE INDICATES CANOPY ABOVE.
- 6. ROOF DRAIN LEADERS.
- 7. FLOOR DRAIN, REF: PLUMBING.
- 8. FLOOR SINK TYP, REF: PLUMBING.
- 9. FLOOR CLEAN OUT, TYP. REF: PLUMBING

INTERIOR WALL FINISH SCHEDULE

MARK	MATERIAL	DESCRIPTION	
FRP-1	FRP (WHITE)	MARLITE S100G WHIT CLASS C	
P-1	PAINT	DOORS; 1 COAT PRIM GLOSS LATEX. SHER' SNOWBOUND WHITE	
P-2	PAINT	STEEL; GLOSS LATEX PRIMER, 2 COATS EX SHERWIN WILLIAMS S	
IP	INSULATED PANELS	INSULATED WALL PAI MANUFACTURER	
S-1	SS U-CHANNEL	FULL HEIGHT STAINLI WITH 2" WING SIZE; 1 90° ANGLES	
S-2	SS CORNER GUARD	4' - 0" HEIGHT STAINL WITH 2" WING SIZE; 1 (BRUSHED) FINISH; 90	



A201 3



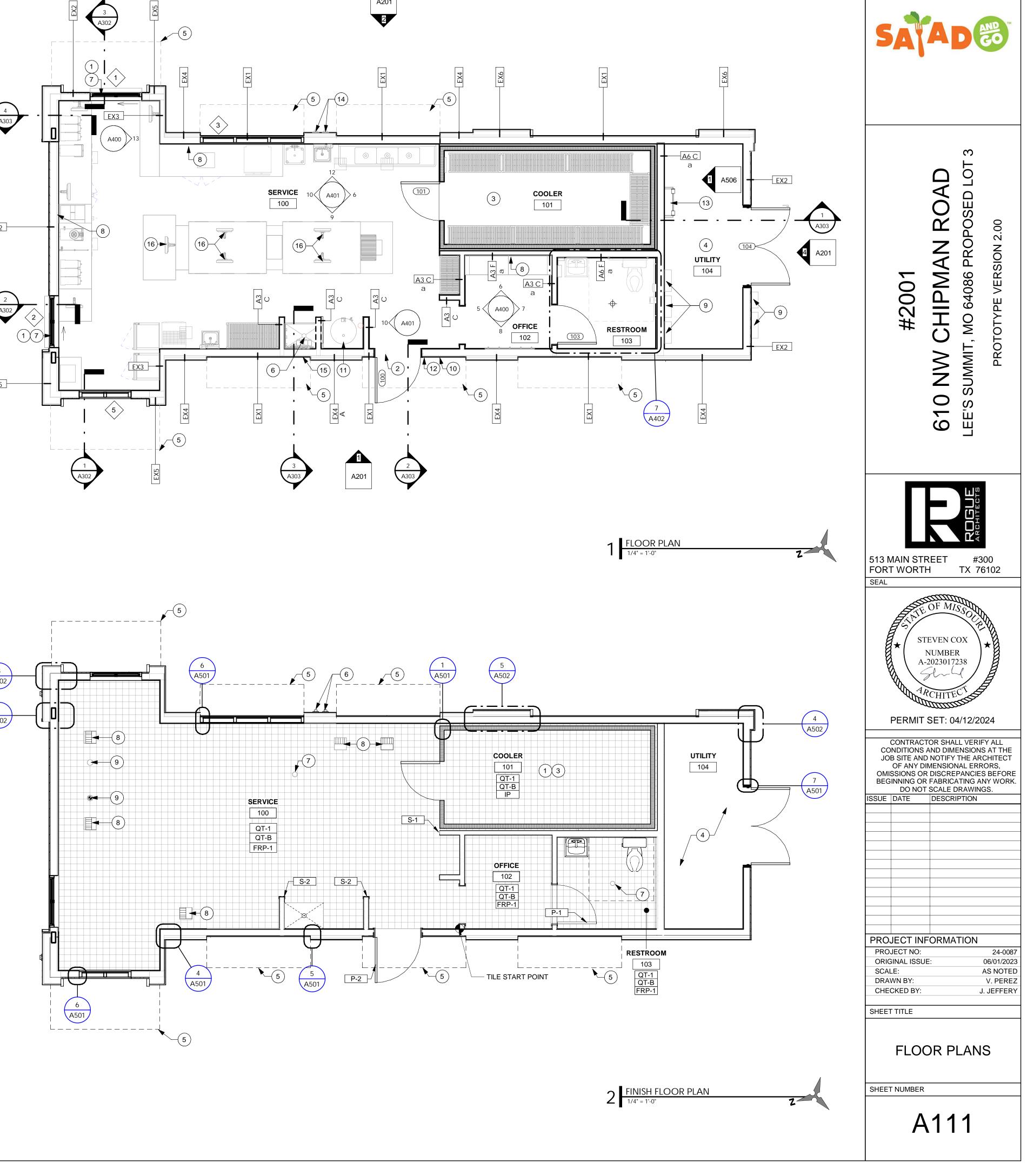
ITE SMOOTH SURFACE,

MER WITH 2 COATS SEMI RWIN WILLIAMS SW-7004

X. DOORS; 1 COAT EXTERIOR XTERIOR SEMI GLOSS. SW-7048 URBANE BRONZE ANELS BY COOLER

LESS STEEL U-CHANNEL 18 GAUGE; #4 SATIN FINISH;

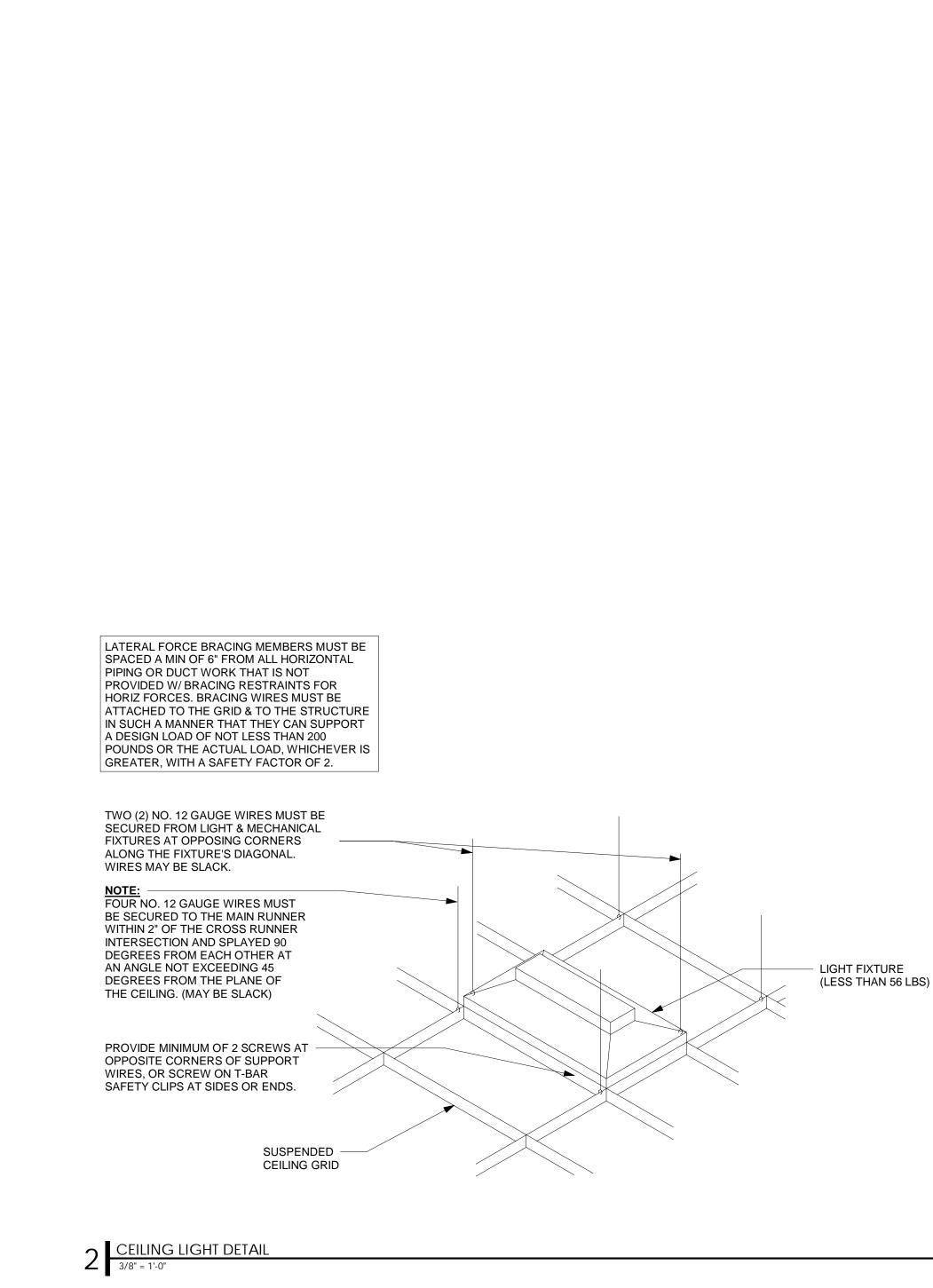
LESS STEEL CORNER GUARD 18 GAUGE; #4 SATIN 90° ANGLE. TYPE 304





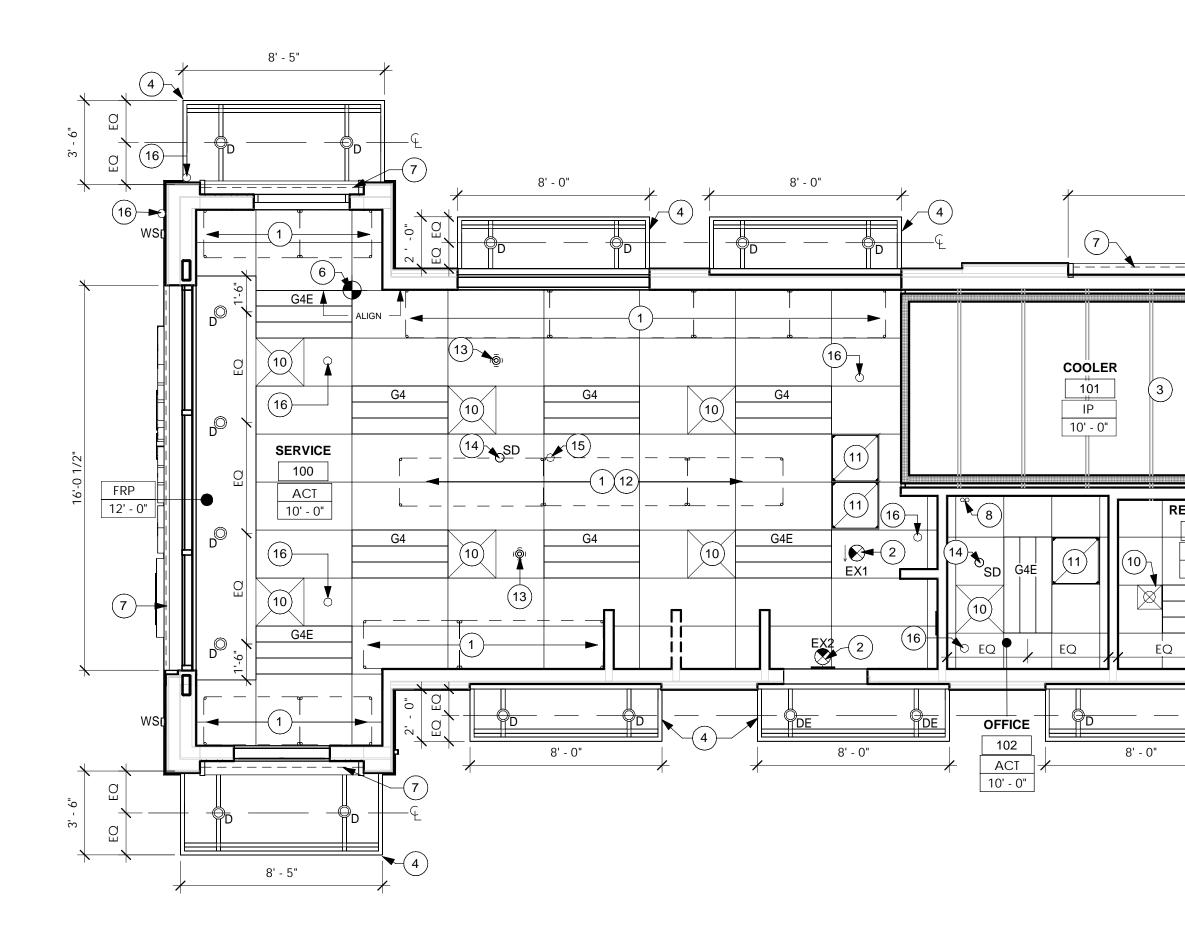
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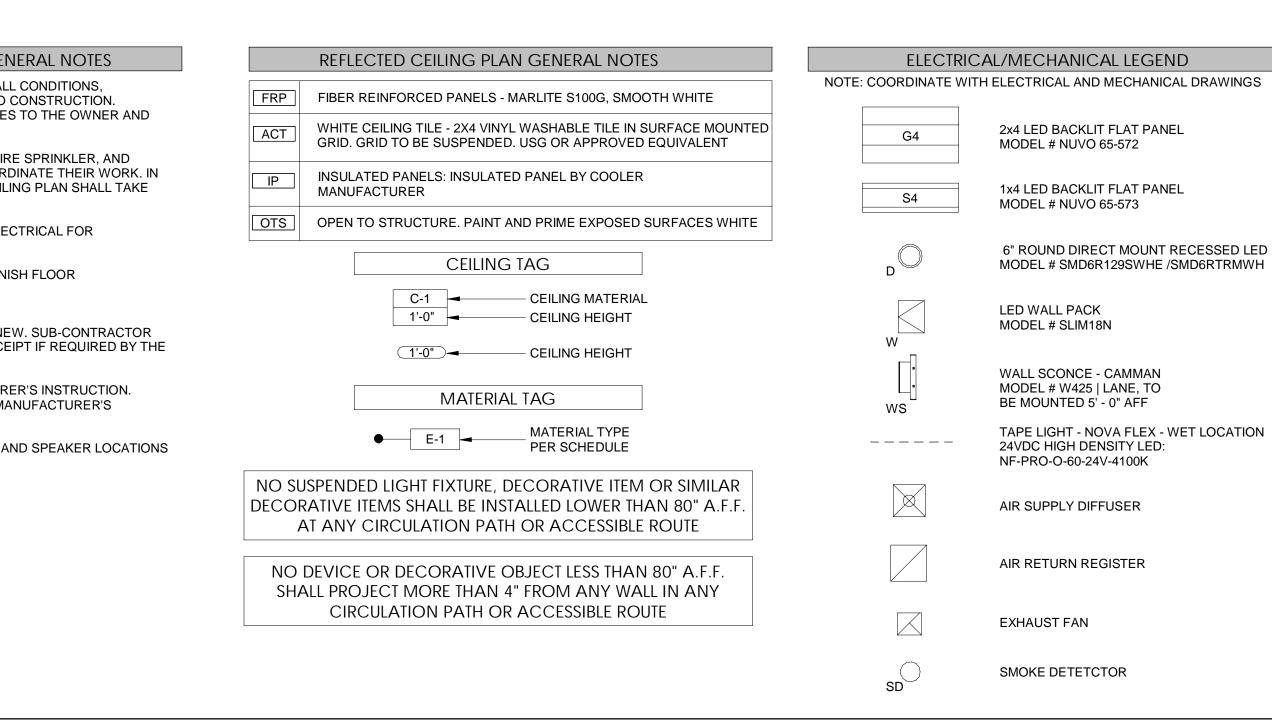
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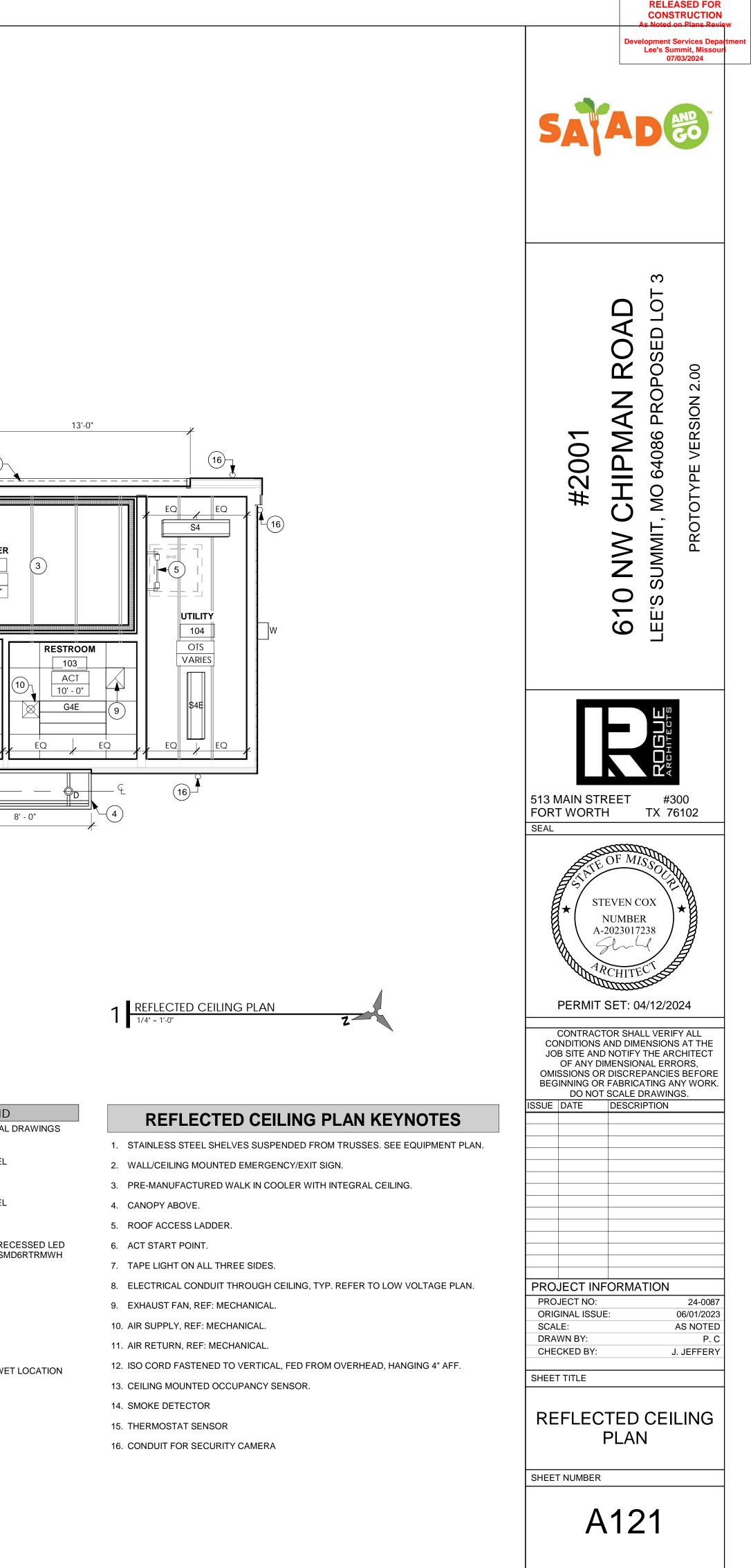


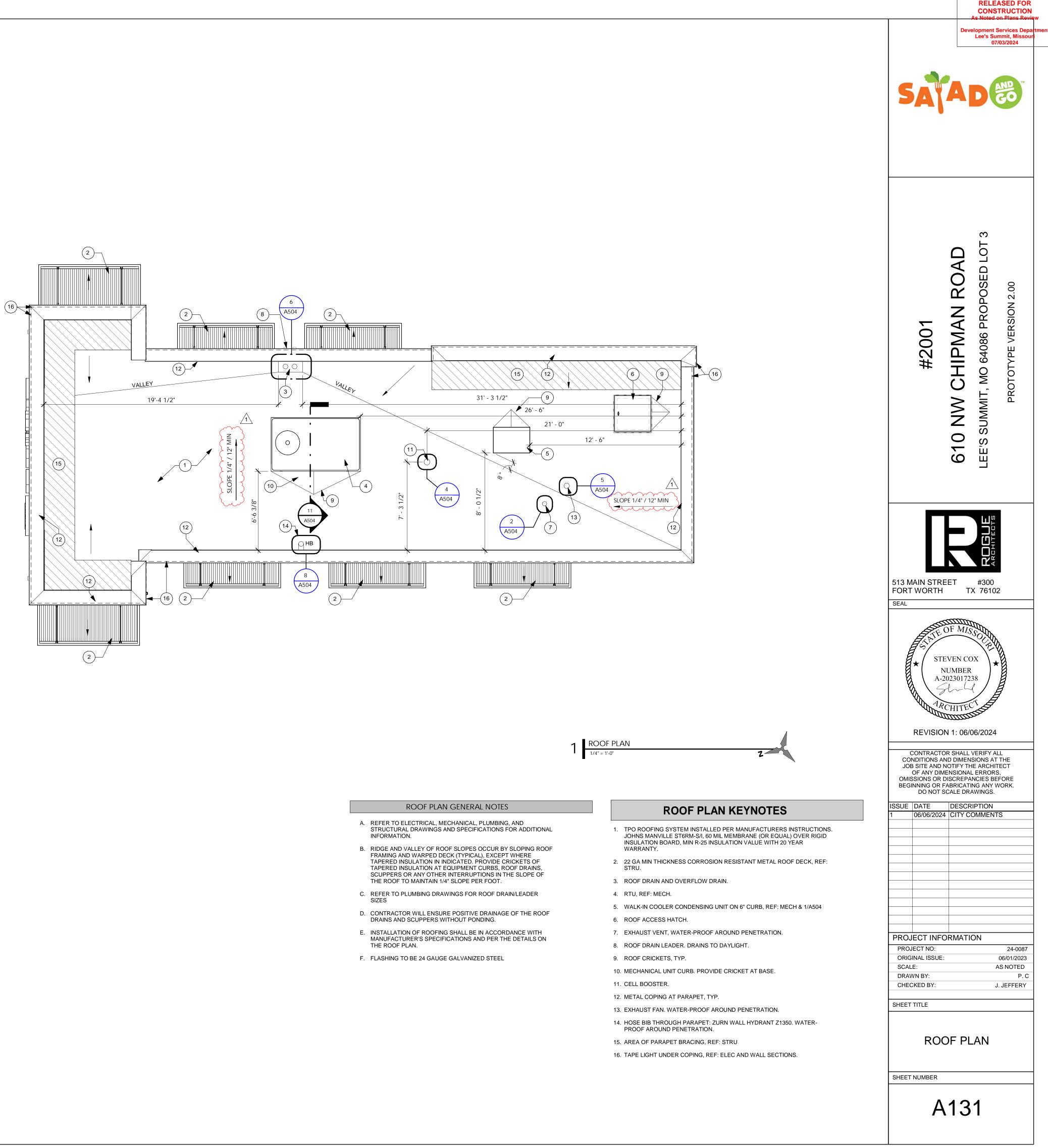
REFLECTED CEILING PLAN GENERAL NOTES

- A. GENERAL CONTRACTOR SHALL VERIFY ALL CONDITIONS, DIMENSIONS, AND ASSEMBLIES PRIOR TO CONSTRUCTION. REPORT ANY SIGNIFICANT DISCREPANCIES TO THE OWNER AND ARCHITECT.
- B. MECHANICAL, PLUMBING, ELECTRICAL, FIRE SPRINKLER, AND CEILING SUBCONTRACTORS SHALL COORDINATE THEIR WORK. IN CASE OF CONFLICT, THE REFLECTED CEILING PLAN SHALL TAKE PRECEDENCE.
- C. COORDINATE WITH MECHANICAL AND ELECTRICAL FOR ADDITIONAL REQUIREMENTS.
- D. CEILING HEIGHTS SHOWN ARE ABOVE FINISH FLOOR
- E. DO NOT SCALE DRAWINGS.
- F. ALL ELECTRICAL EQUIPMENT SHALL BE NEW. SUB-CONTRACTOR TO PROVIDE COPY OF DATED SALES RECEIPT IF REQUIRED BY THE OWNER.
- G. INSTALL EXHAUST FAN PER MANUFACTURER'S INSTRUCTION. PROVIDE BLOCKING AS REQUIRED PER MANUFACTURER'S RECOMMENDATION.
- H. GC TO COORDINATE SECURITY CAMERA AND SPEAKER LOCATIONS SHOWN WITH ELEC.





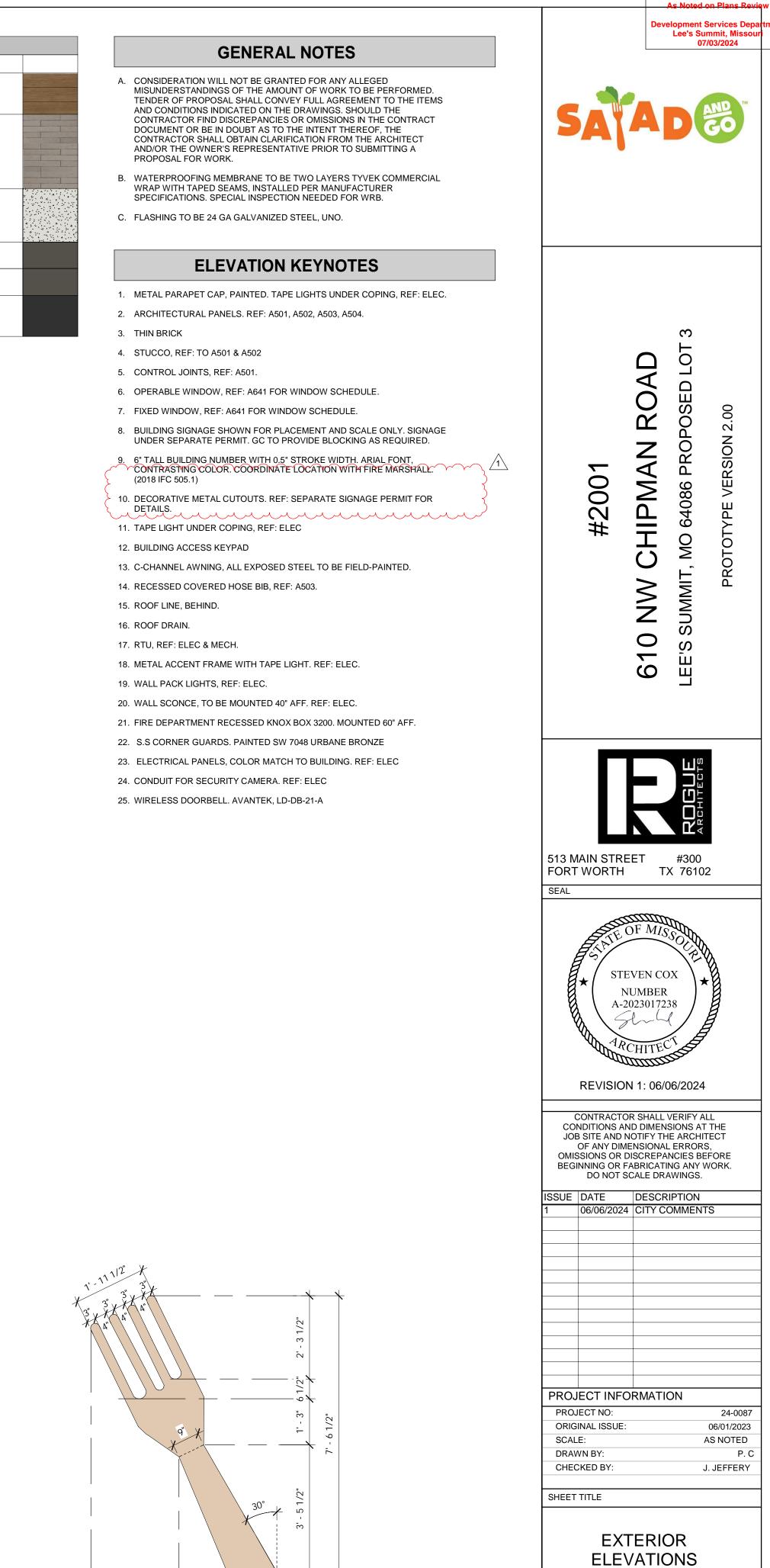






EXTERIOR FINISH SCHEDULE					
MARK	MATERIAL	DESCRIPTION			
AP-1	ARCHITECTURAL PANELS	PRODUCT: JAMES HARDIE PLANK LAP SIDING, SELECT CEDARMILL COLOR: PAINT MATCH SW6095 TOASTY			
BR-1	THIN BRICK	PRODUCT: INTERSTATE BRICK - THIN MODULAR TEXTURE: MATTE COLOR: PLATINUM GROUT: SPECTRUM - MASONRY CEMENT - TYPE N - WHITE			
S-1	STUCCO	PRODUCT: DRYVIT CCP-2 FINISH: SAND COLOR: MATCH SHERWIN WILLIAMS SW-6196 FROSTY WHITE			
MT-1	METAL COPING	FINISH: PAINT COLOR: SW-7048 URBANE BRONZE			
P-2	PAINT	FINISH: PAINT COLOR: SW-7048 URBANE BRONZE			
FR	FRAME	PRODUCT: SNAP FRAME FINISH: STEEL - PREFABRICATED COLOR: MATTE BLACK			

RELEASED FOR CONSTRUCTION



2' - 5"

O 1/2" = 1'-0"

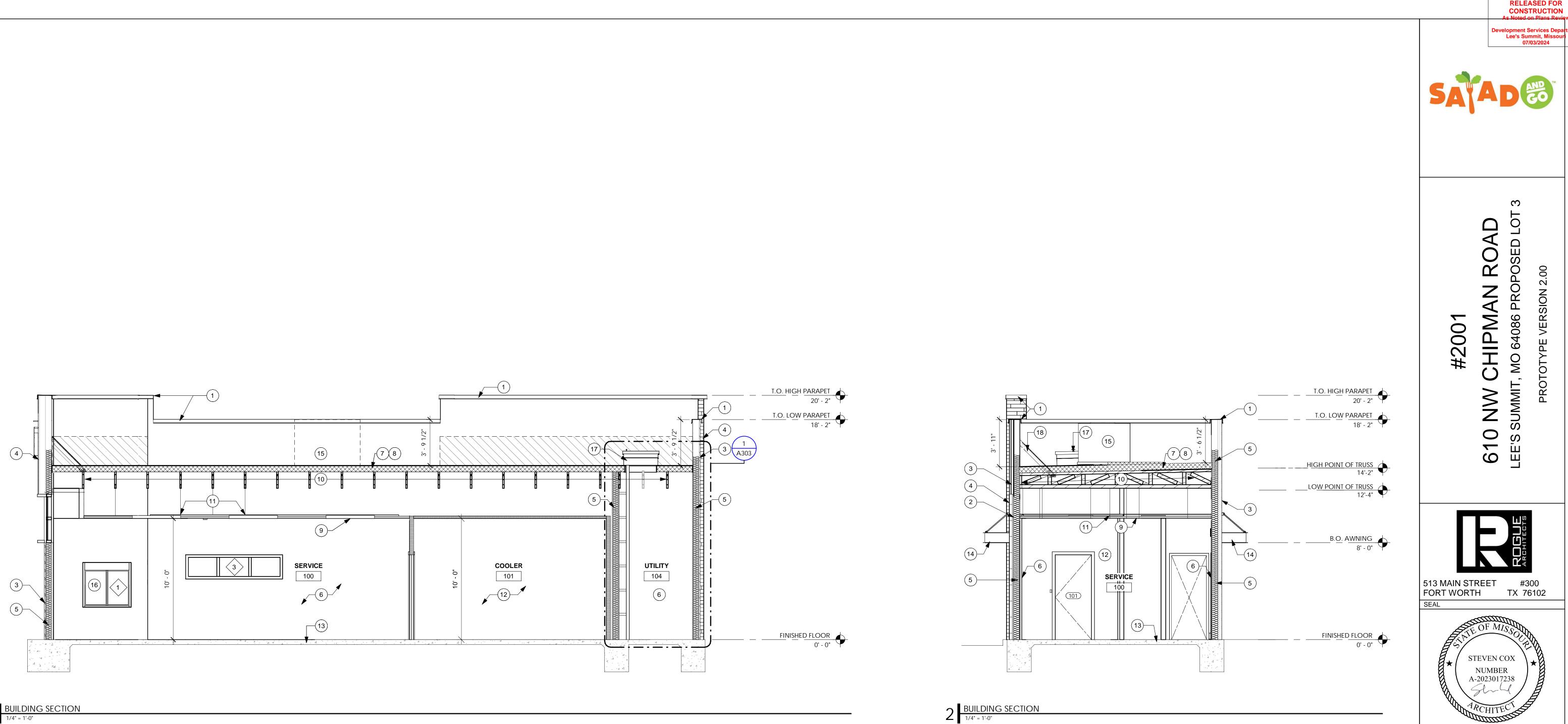
1' - 4" 1' - 4 1/2"

5' - 1"

GRAPHIC WALL ITEMS - REF SIGNAGE

SHEET NUMBER

A201



1 BUILDING SECTION 1/4" = 1'-0"

GENERAL NOTES

- A. ALL DIMENSIONS ARE SHOWN TO FINISH FACE OF WALLS UNLESS NOTED OTHERWISE B. GC TO COORDINATE AND PROVIDE ALL BLOCKING FOR
- EQUIPMENT, MILLWORK, AND FIXTURES.
- C. WALLS TO STRUCTURAL DECK MUST BE THOROUGHLY SEALED AROUND PENETRATIONS
- D. REFER TO WALL TYPE LEGEND FOR ALL NEW WALLS.
- E. ALL INSTALLED INTERIOR FINISHES SHALL COMPLY WITH THE FLAME SPREAD REQUIREMENTS OF ADOPTED IBC, CHAPTER 8.
- F. GC TO PROVIDE MOISTURE RESISTANT GYPSUM BOARD AT ALL LOCATIONS WHERE WALL TILE IS PRESENT.

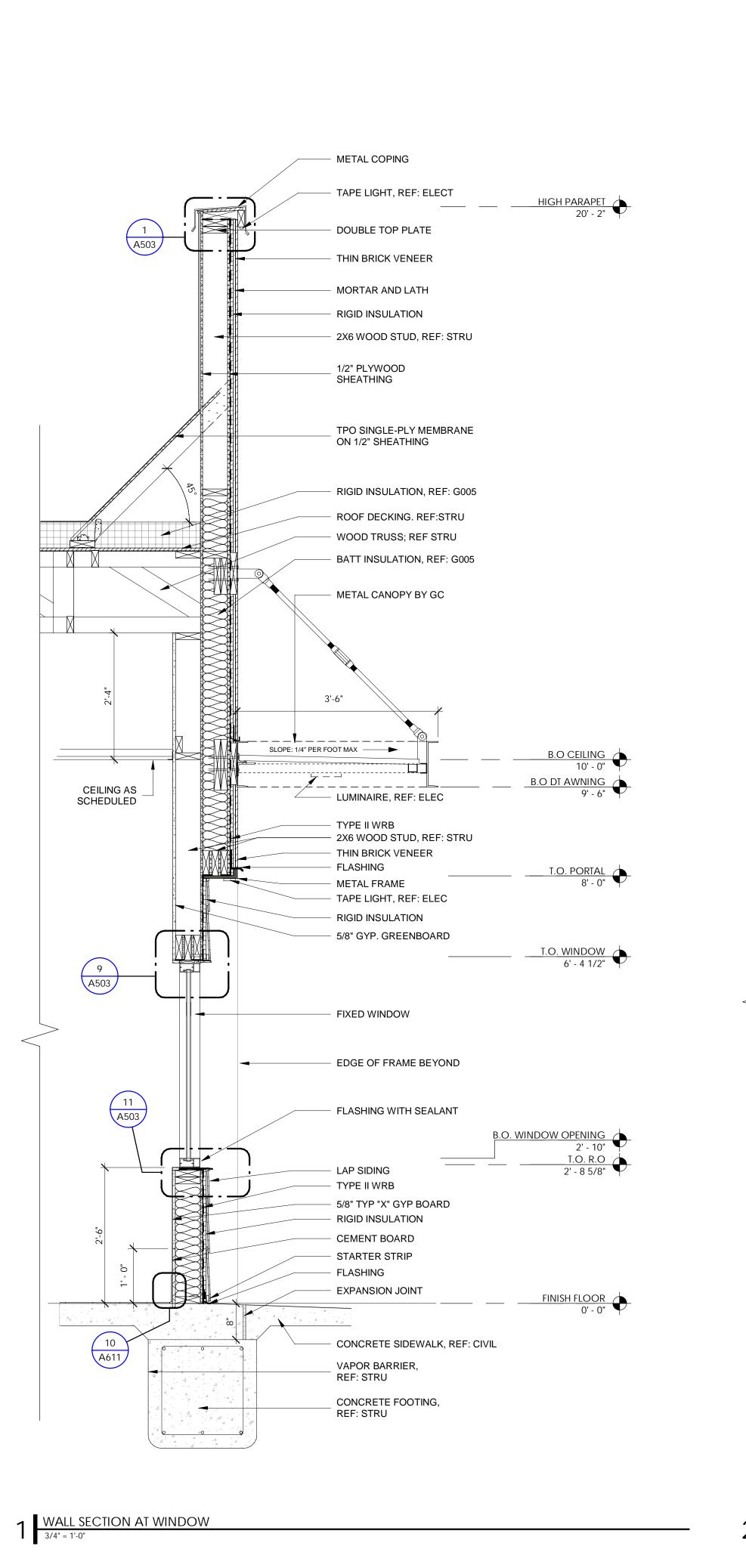
BUILDING SECTION KEYNOTES

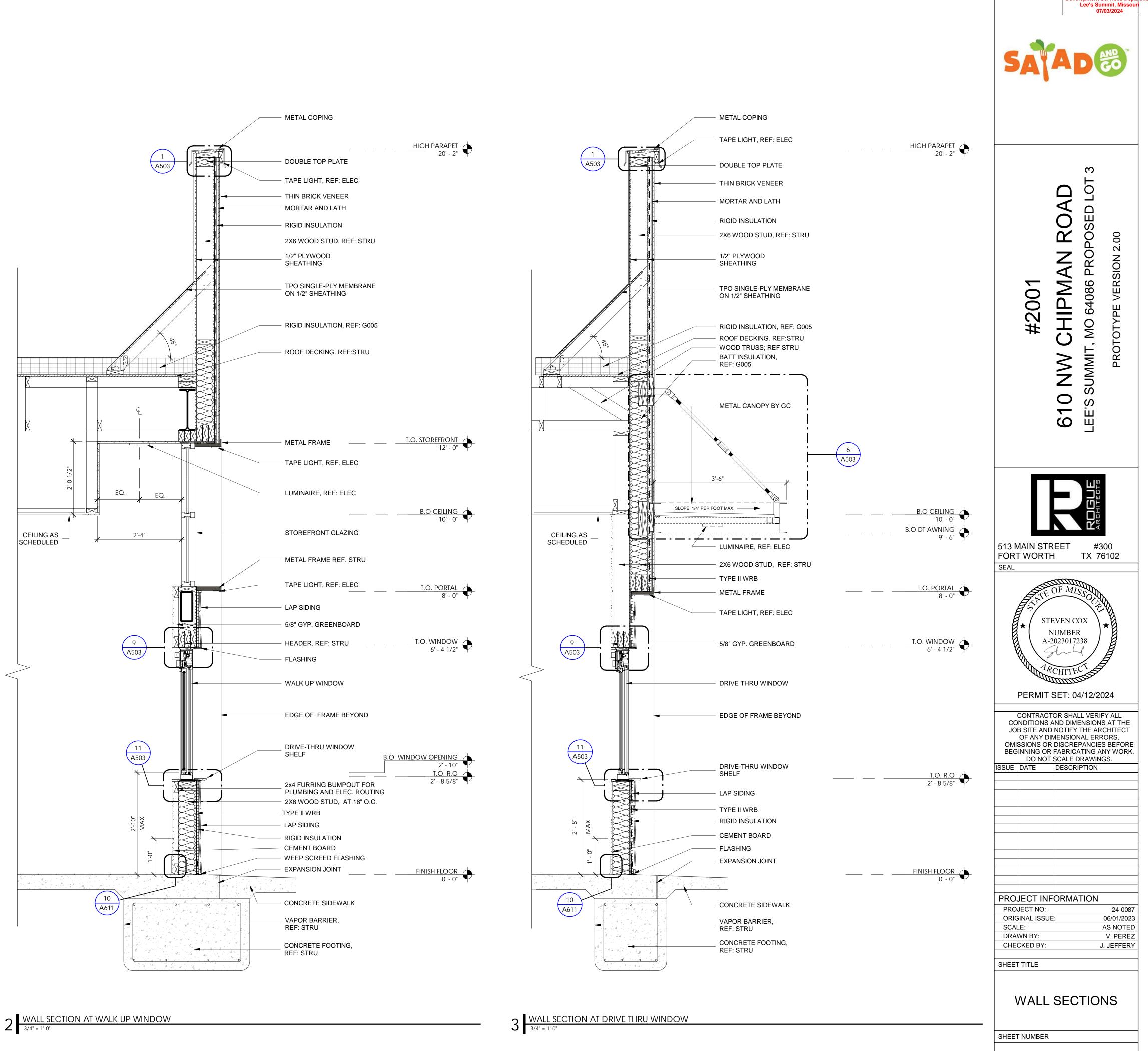
- 1. METAL PARAPET CAP PER WALL PANEL MANUFACTURER.
- 2. STUCCO ON WATER RESISTIVE BARRIER.
- 3. LAP SIDING.
- 4. THIN BRICK.
- 5. INSULATION AT WALL CAVITY; REF: G005.
- 6. FRP ON INTERIOR SHEATHING.
- 7. TPO ROOFING SYSTEM. SINGLE PLY WATERPROOF MEMBRANE.
- 8. ROOF INSULATION TO BE RIGID INSULATION OR APPROVED EQUAL SPRAY FOAM INSULATION. REF: G005
- 9. ACOUSTICAL CEILING TILE SUSPENDED FROM STRUCTURE.
- 10. WOOD TRUSS, REF: STRU.
- 11. SHELVING SUSPENDED FROM UNISTRUT AND THREADED RODS FROM STRUCTURE.
- 12. INSULATED WALL & CEILING BY COOLER MANUFACTURER.
- 13. CONCRETE FLOOR SLAB, REF: STRU.
- 14. 22 GA. MIN. THICKNESS CORROSION RESISTANT METAL DECK ON 2X STEEL TUBES AT 6'-0" OC. SLOPE DECK TO DRAIN, REF: STRU
- 15. MECHANICAL UNITS ON 8" MAX CURBS, REF: MECH.
- 16. SERVICE WINDOW.
- 17. ROOF ACCESS HATCH
- 18. PARAPET BRACE, REF: STRU

PERMIT SET: 04/12/2024 CONTRACTOR SHALL VERIFY ALL CONDITIONS AND DIMENSIONS AT THE JOB SITE AND NOTIFY THE ARCHITECT OF ANY DIMENSIONAL ERRORS, OMISSIONS OR DISCREPANCIES BEFORE BEGINNING OR FABRICATING ANY WORK. DO NOT SCALE DRAWINGS. ISSUE DATE DESCRIPTION PROJECT INFORMATION PROJECT NO: 24-0087 ORIGINAL ISSUE: 06/01/2023 AS NOTED SCALE: DRAWN BY: P. C CHECKED BY: J. JEFFERY SHEET TITLE **BUILDING SECTIONS**

SHEET NUMBER

A301

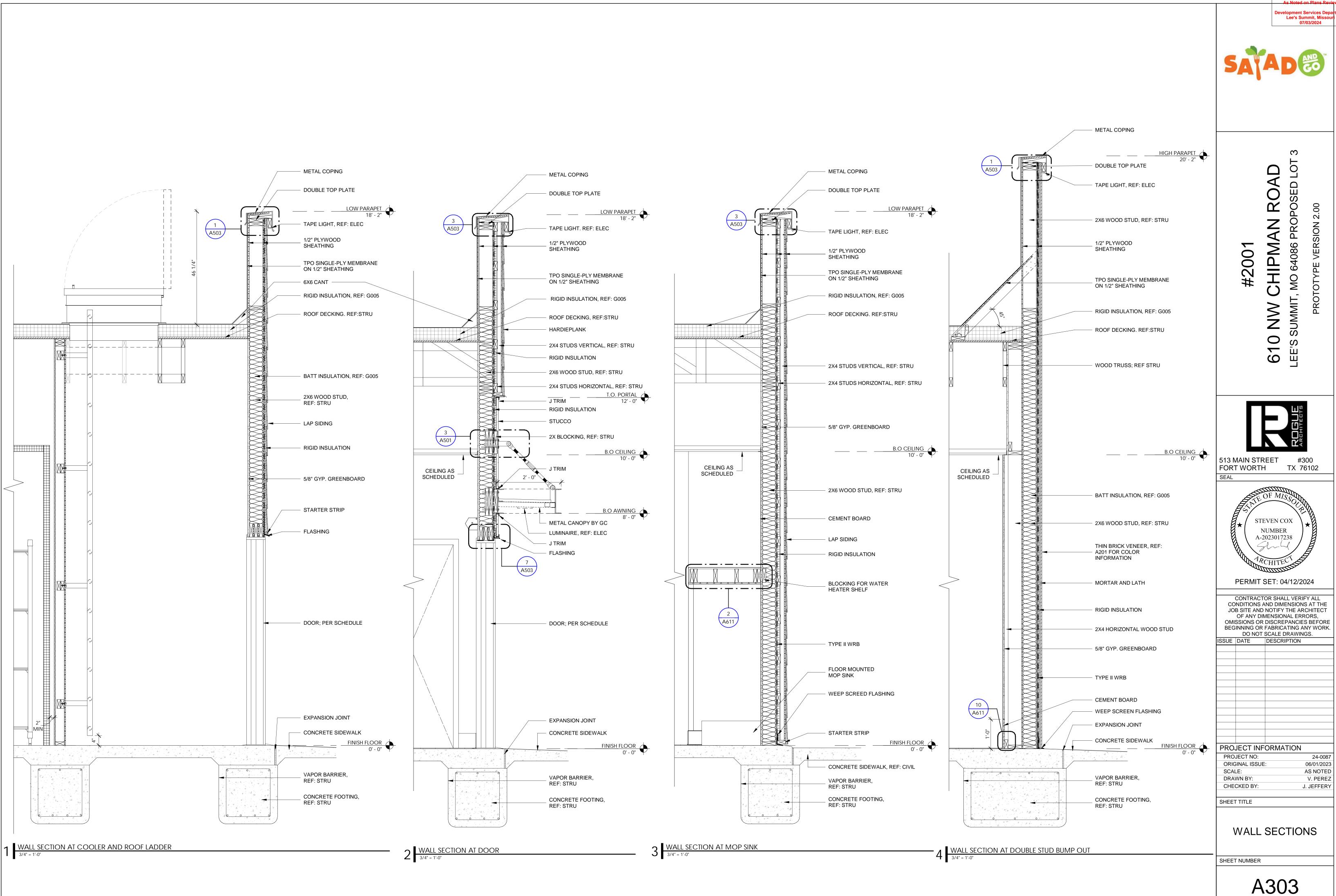




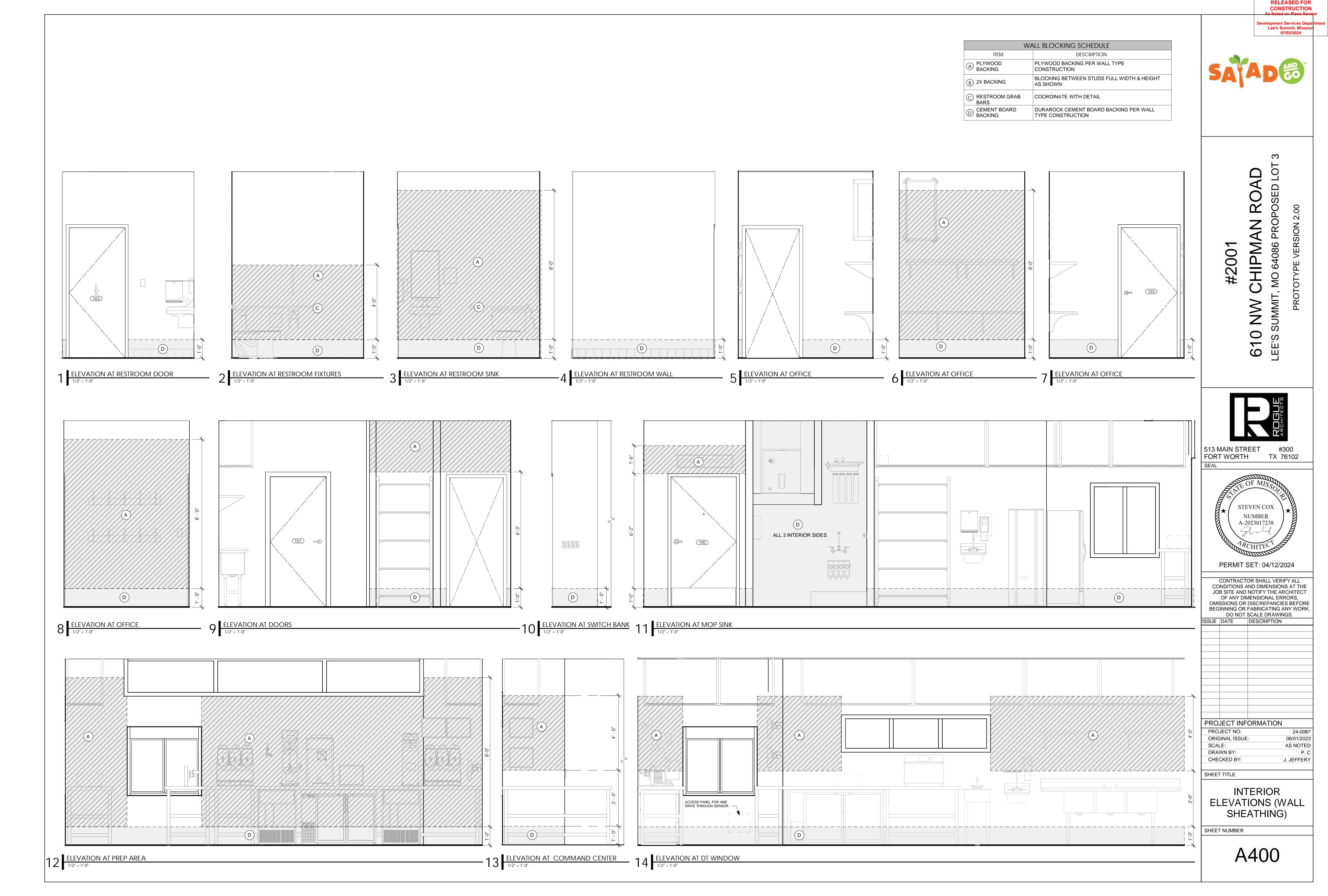
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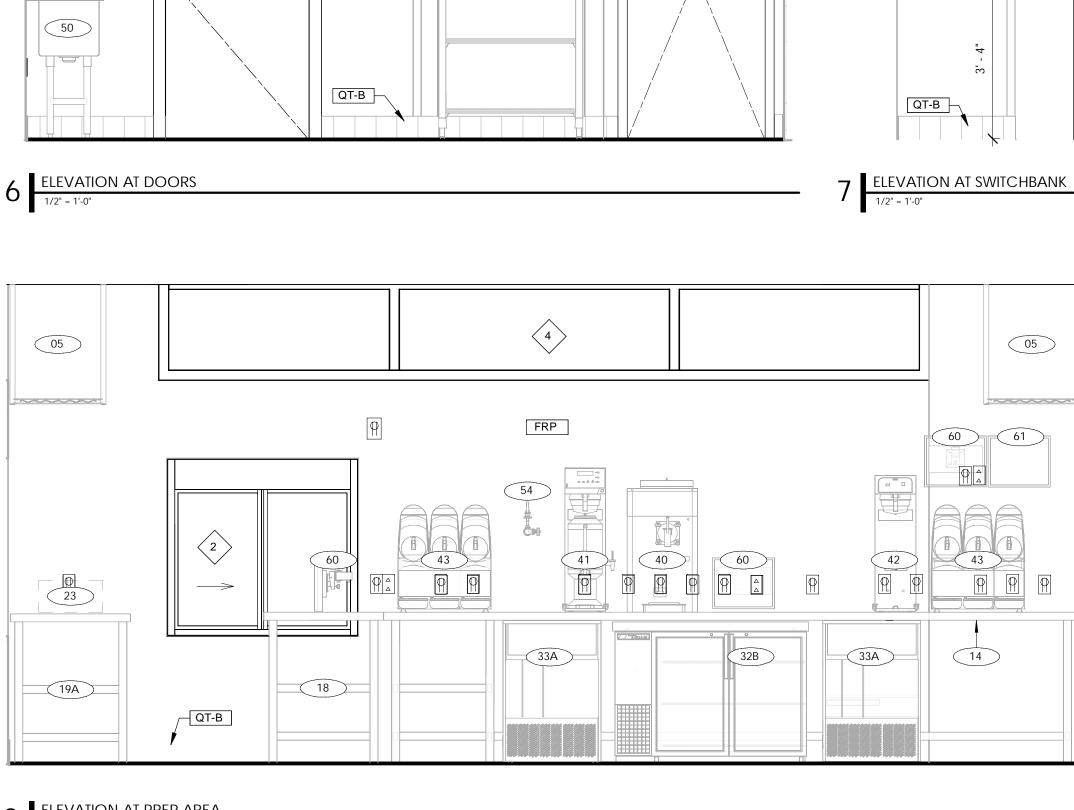


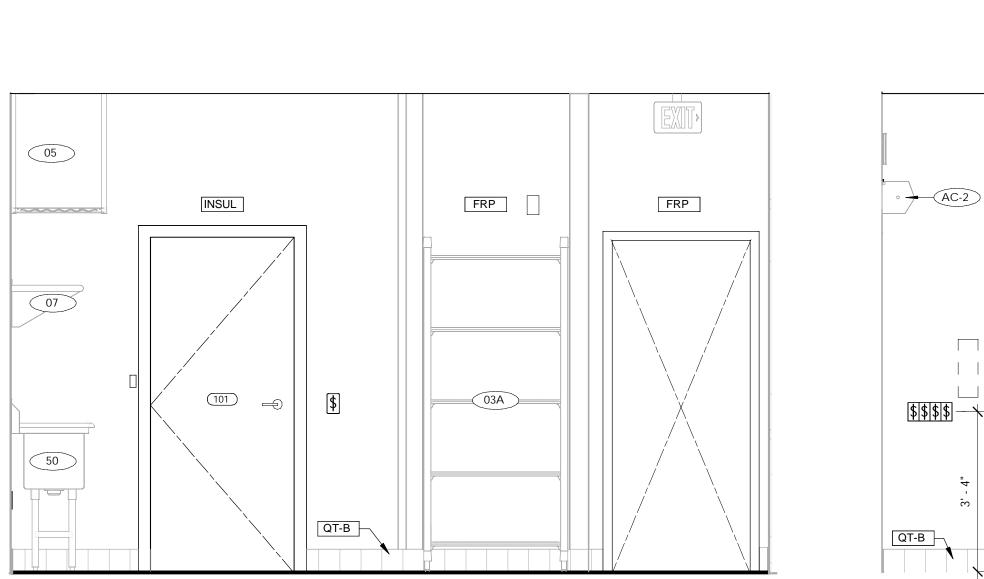


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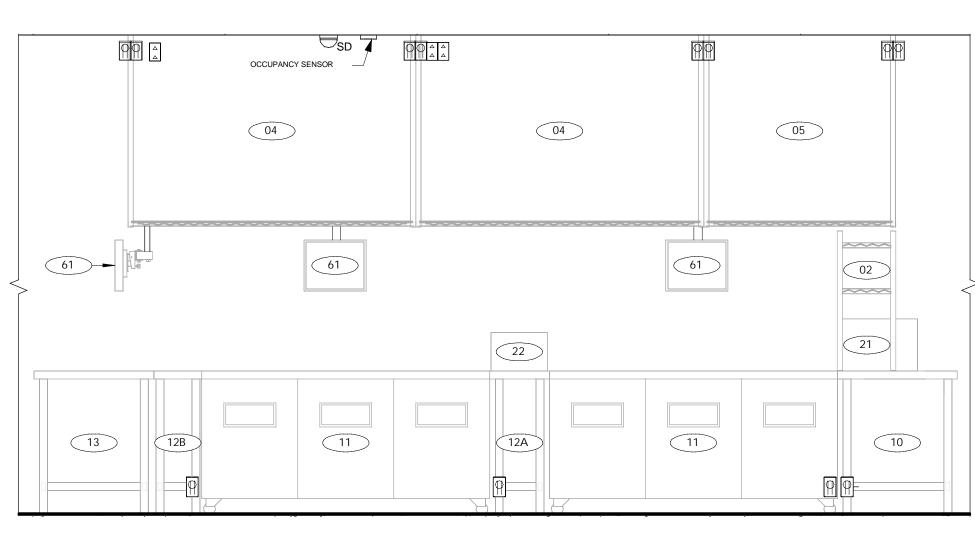








ELEVATION AT PREP AREA 1/2" = 1'-0"

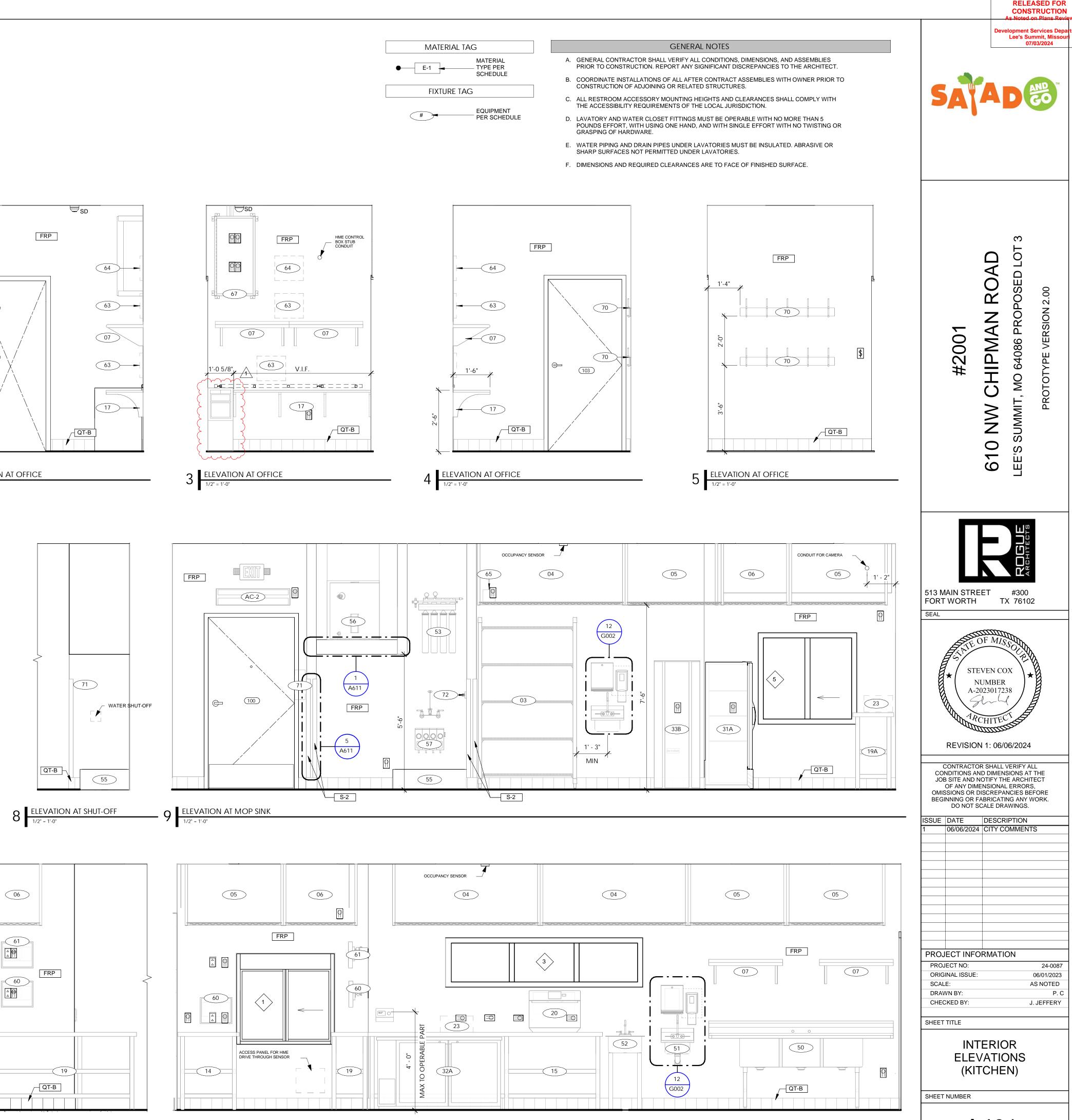


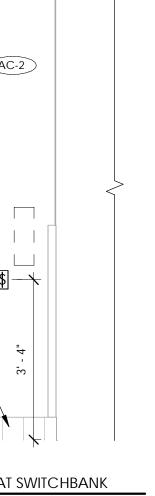


___QT-B

FRP

- 12 ELEVATION AT DT WINDOW
1/2" = 1'-0"





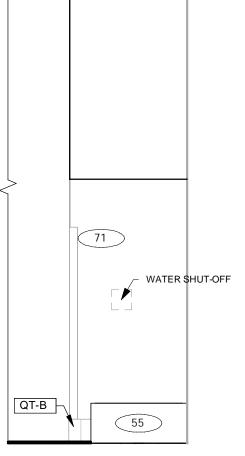
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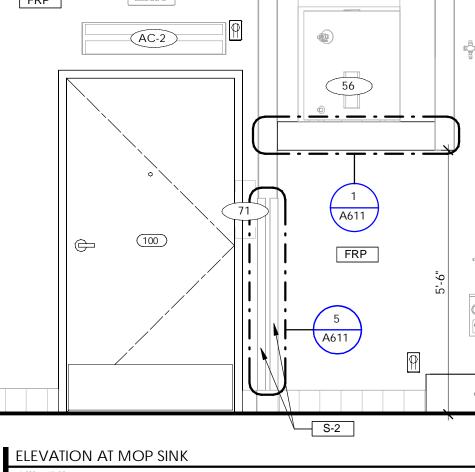
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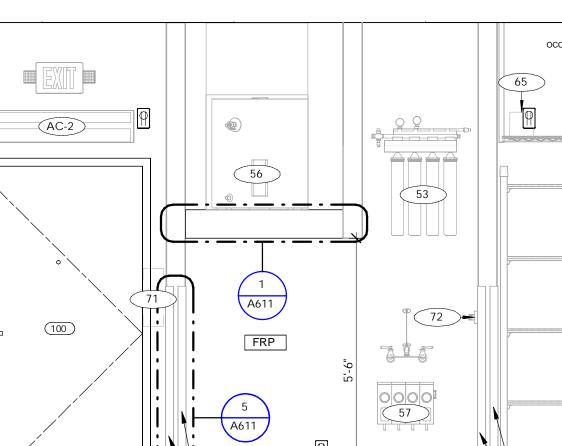
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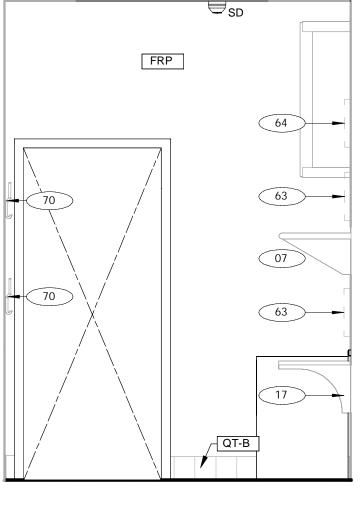
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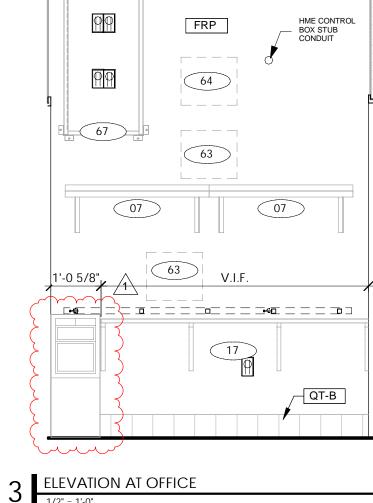


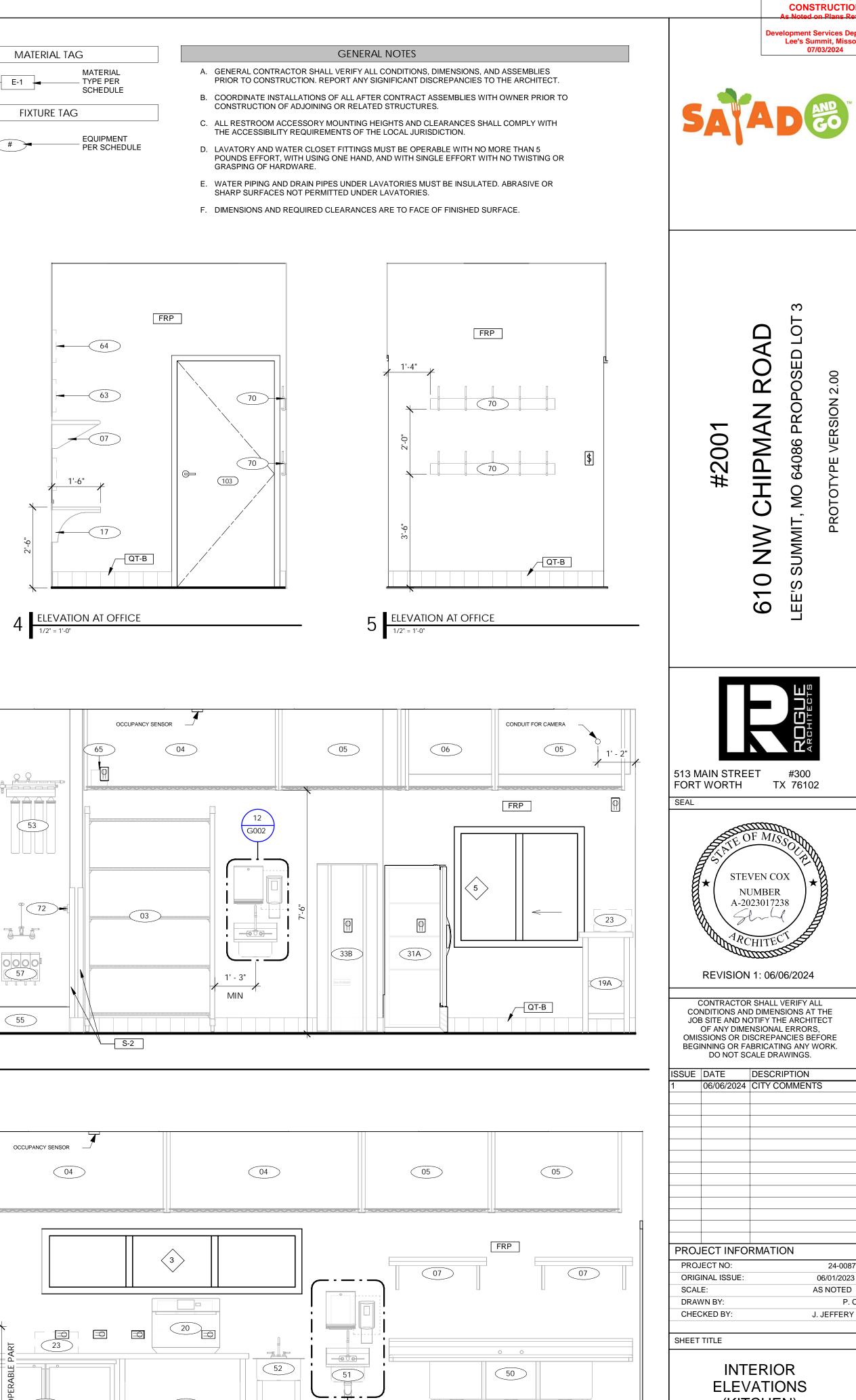


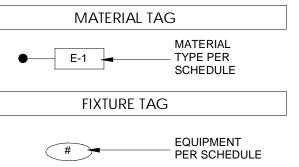




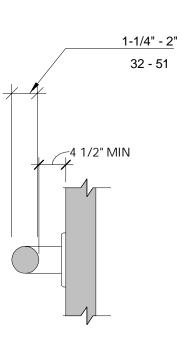






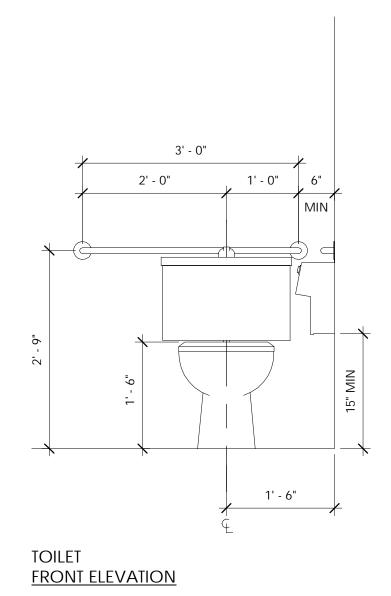


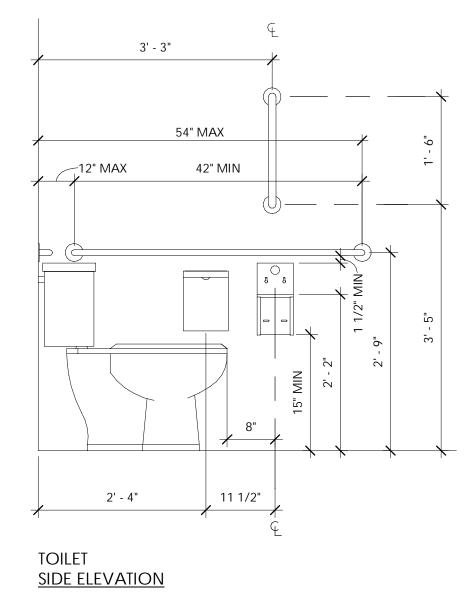












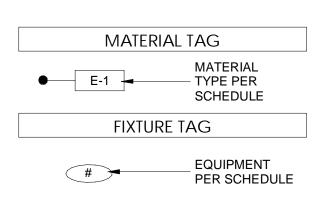
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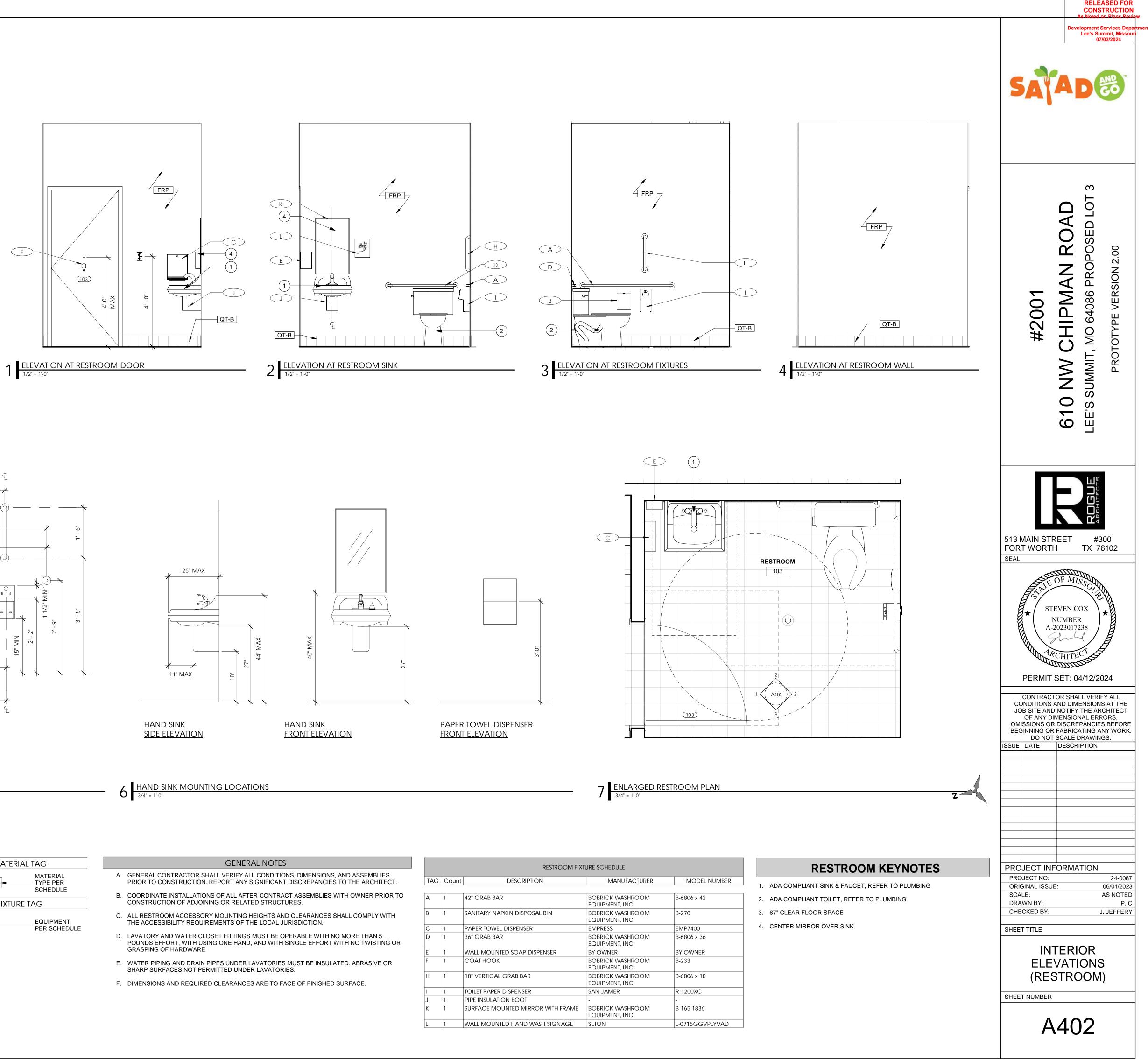
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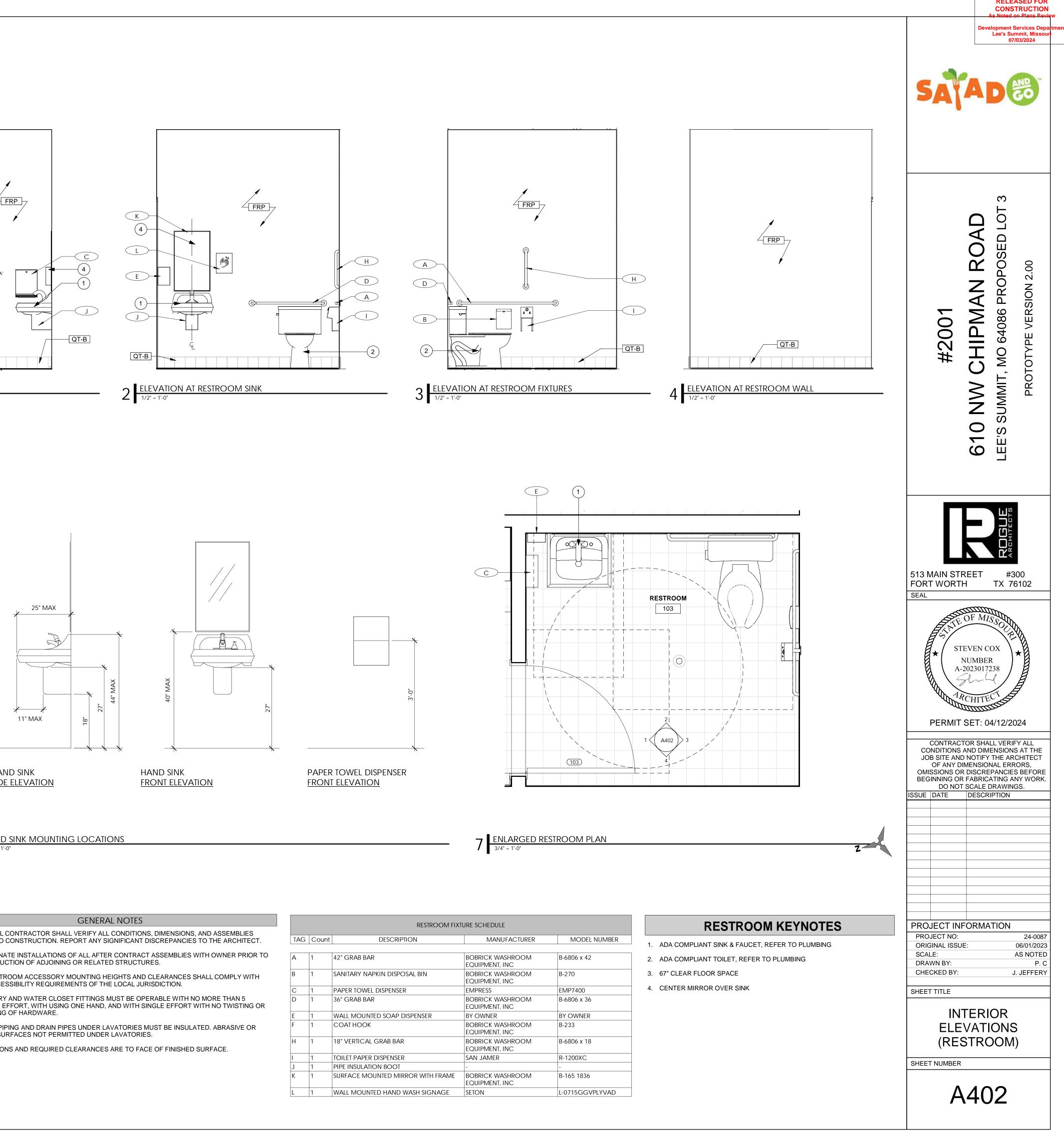
## 5 <u>TOILET PLACEMENT</u> 3/4" = 1'-0"



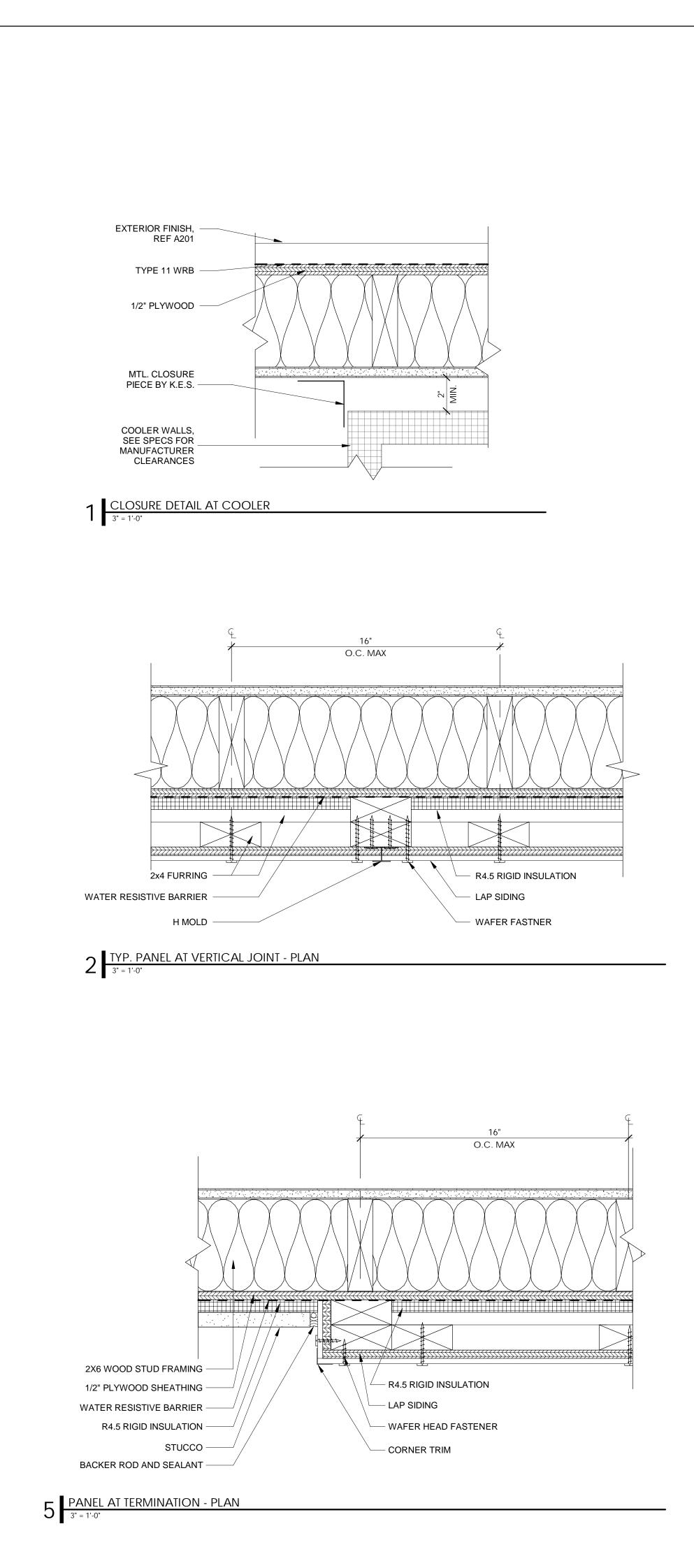
- A. ALL REFERENCE DIMENSIONS ARE TO FACE OF WALL FINISH, UNO
- B. ALL APPLICABLE ACCESSORIES SHALL COMPLY WITH AMERICAN DISABILITIES STANDARDS ACT (ADA) OF 2012
- C. EXAMINE ROUGH OPENINGS FOR CORRECT DIMENSIONS, PLUMBING, AND FOR DEFECTS THAT WOULD PREVENT PROPER INSTALLATION OF ACCESSORIES. DO NOT PROCEED WITH INSTALLATION UNTIL DEFECTS ARE CORRECTED.
- D. EACH ITEM SHALL BE INSTALLED PLUMB, LEVEL, SECURE, AND IN PROPER RELATION TO FLOORS, PARTITIONS, AND OTHER FIXTURES.

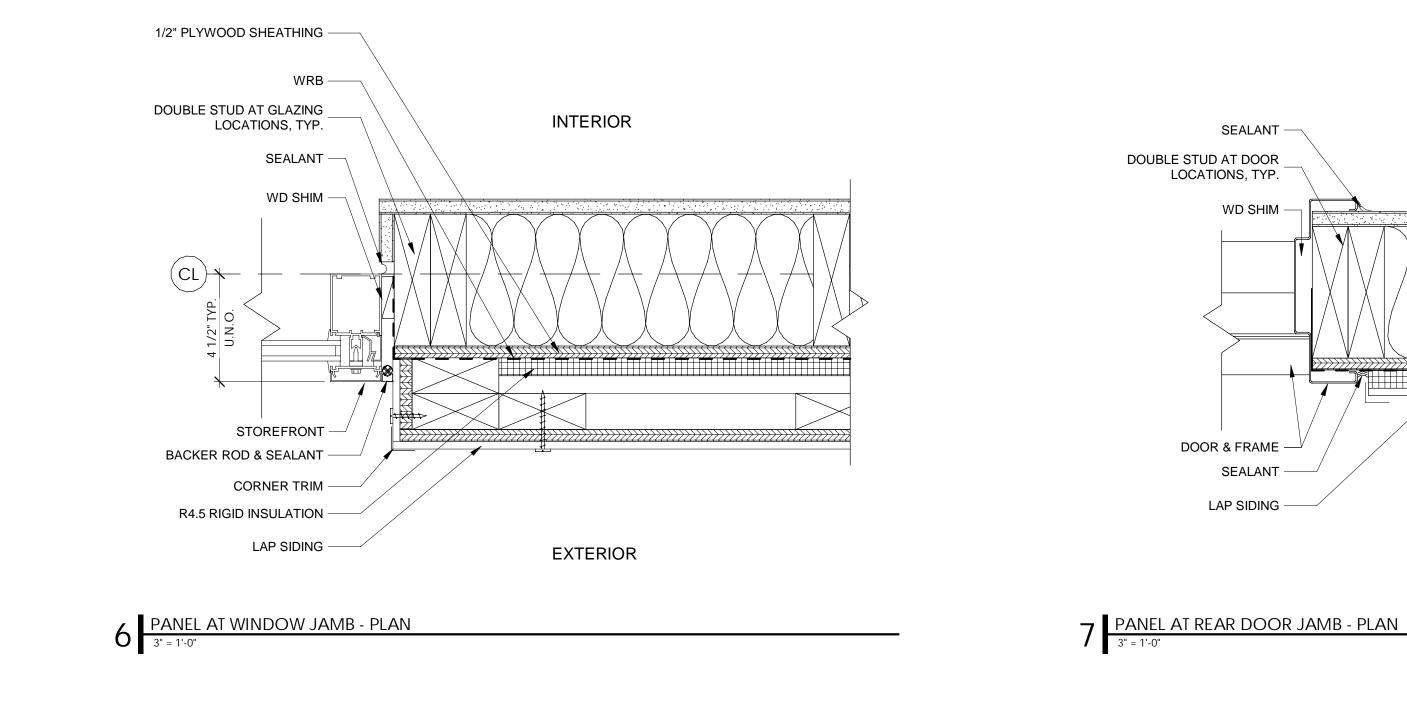


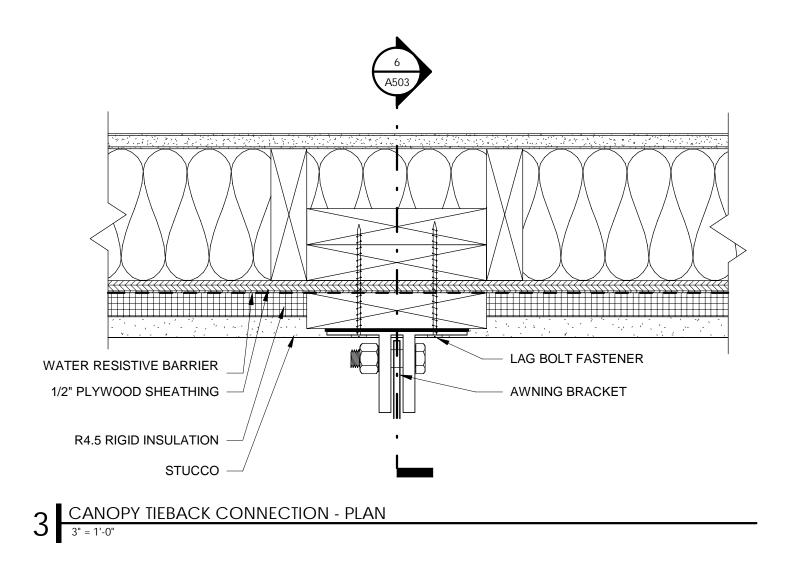


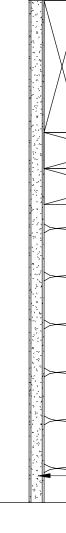


| TAG | Count | DESCRIPTION                       | MANUFACTURE                        |
|-----|-------|-----------------------------------|------------------------------------|
|     |       |                                   |                                    |
| A   | 1     | 42" GRAB BAR                      | BOBRICK WASHROOM<br>EQUIPMENT, INC |
| В   | 1     | Sanitary Napkin Disposal Bin      | BOBRICK WASHROOM<br>EQUIPMENT, INC |
| С   | 1     | PAPER TOWEL DISPENSER             | EMPRESS                            |
| D   | 1     | 36" GRAB BAR                      | BOBRICK WASHROOM<br>EQUIPMENT, INC |
| E   | 1     | WALL MOUNTED SOAP DISPENSER       | BY OWNER                           |
| F   | 1     | СОАТНООК                          | BOBRICK WASHROOM<br>EQUIPMENT, INC |
| Н   | 1     | 18" VERTICAL GRAB BAR             | BOBRICK WASHROOM<br>EQUIPMENT, INC |
| I   | 1     | TOILET PAPER DISPENSER            | SAN JAMER                          |
| J   | 1     | PIPE INSULATION BOOT              | -                                  |
| К   | 1     | SURFACE MOUNTED MIRROR WITH FRAME | BOBRICK WASHROOM<br>EQUIPMENT, INC |
| L   | 1     | WALL MOUNTED HAND WASH SIGNAGE    | SETON                              |





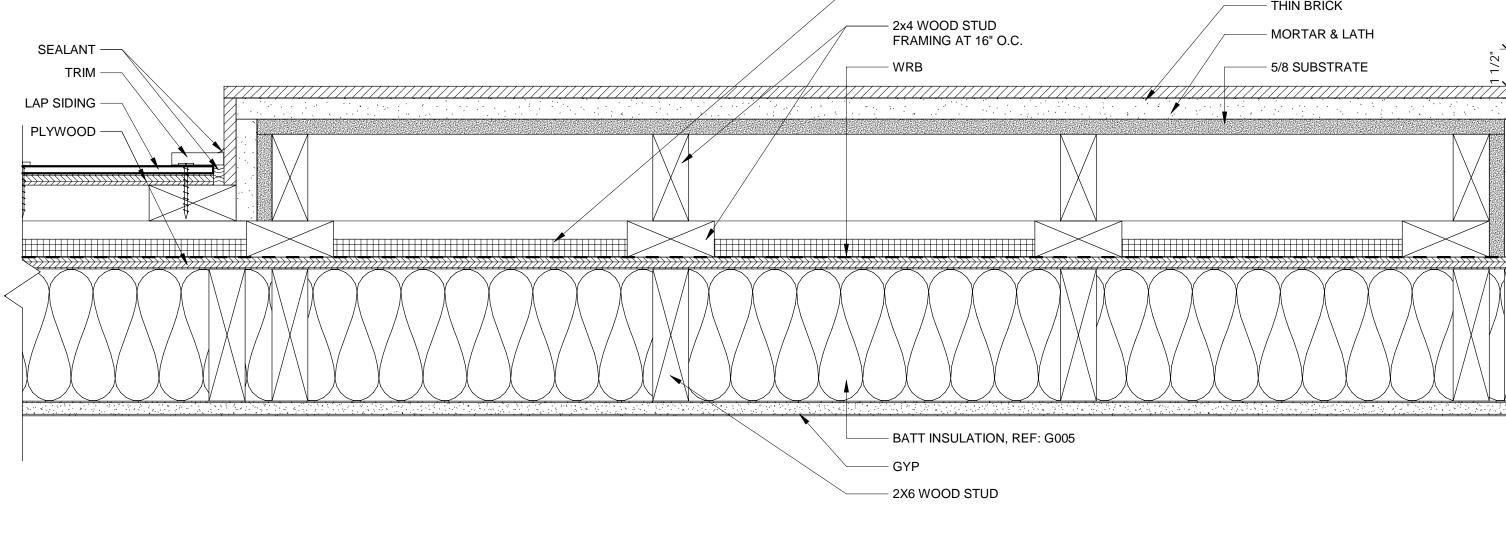


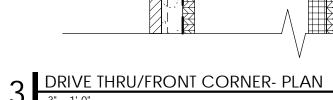


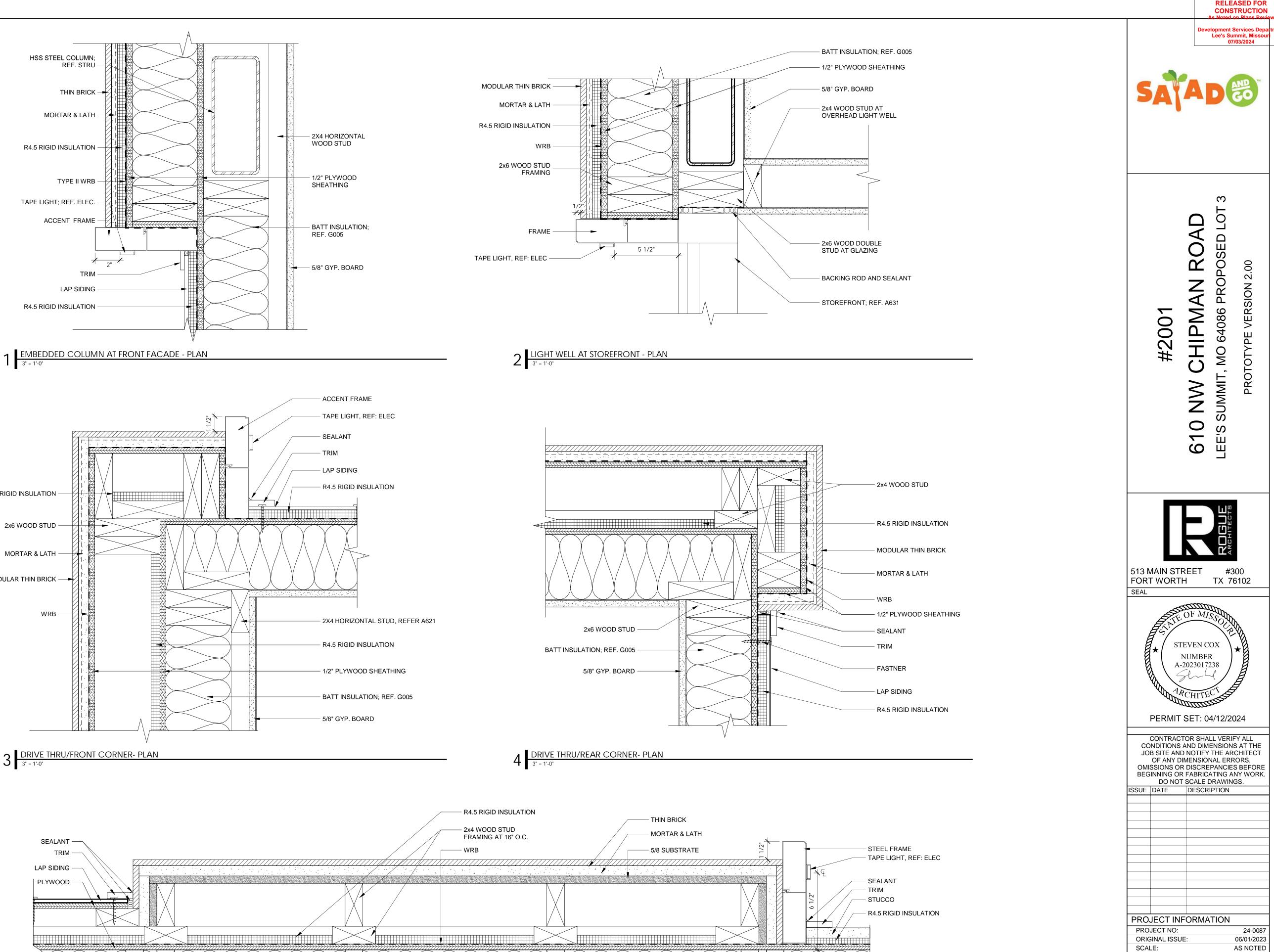


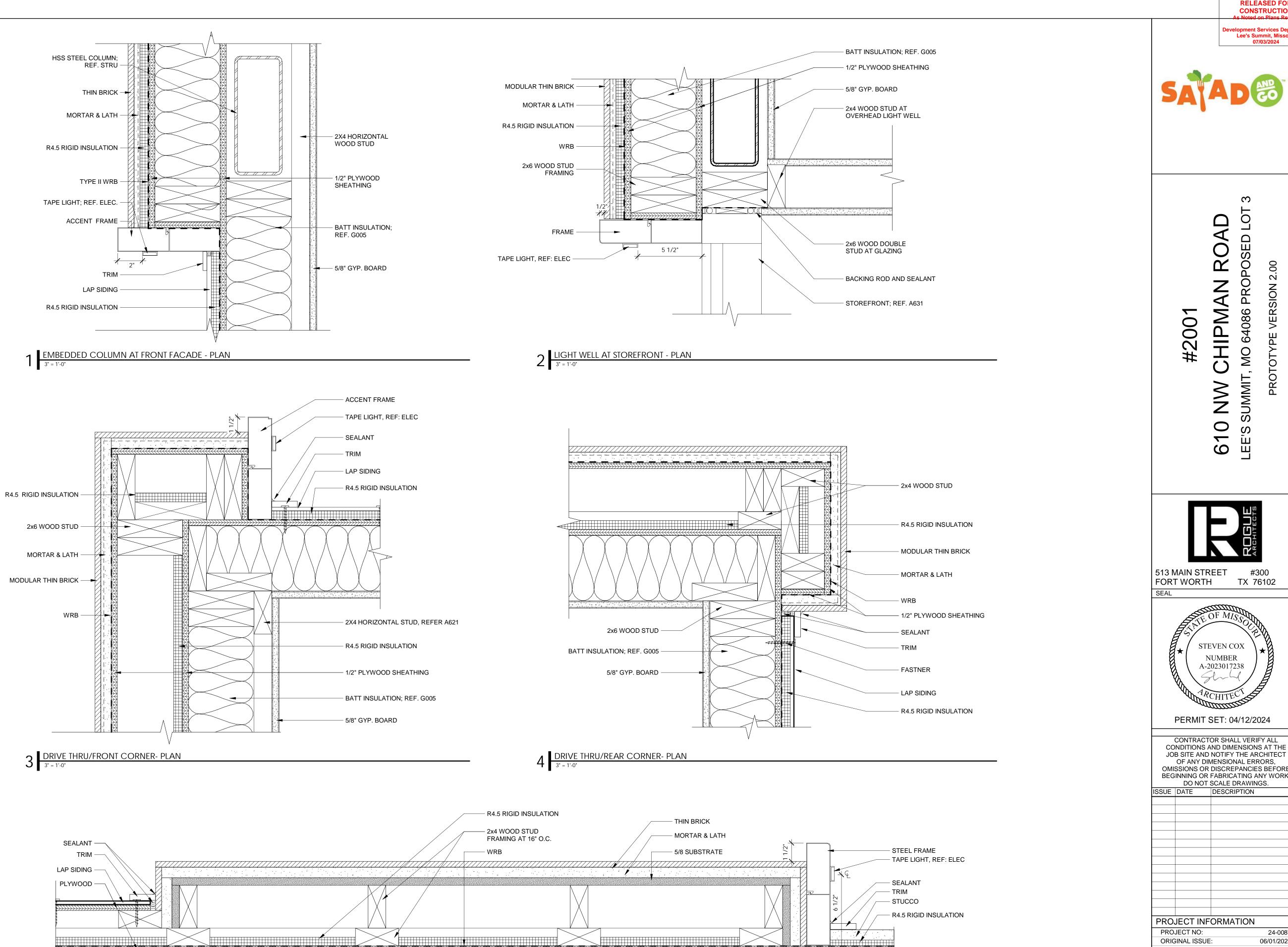
RELEASED FOR CONSTRUCTION As Noted on Plans Review opment Services De Lee's Summit, Missou 07/03/2024 **GENERAL NOTES** 1. GC TO SUBMIT SEALANT SAMPLE TO CONSTRUCTION MANAGER FOR APPROVAL PRIOR TO PURCHASE & INSTALLATION. 2. ALL COMPONENTS, PRODUCTS, EQUIPMENT, FASTENERS, FINISHES, ETC TO BE INSTALLED PER MANUFACTURERS WRITTEN INSTRUCTIONS. 3. ANY DIMENSIONAL IRREGULARITIES OR CONFLICTS ARE TO BE BROUGHT TO THE ARCHITECTS ATTENTION IMMEDIATELY & PRIOR TO COMMENCEMENT OF WORK. 4. GC TO COORDINATE WORK WITH SPECIFICATIONS FOR PROPER INSTALLATION & ADDITIONAL REQUIREMENTS. 5. COLOR OF TRIM PIECES SPECIFIED WITHIN THE DETAILS ON THIS SHEET TO MATCH COLOR OF ADJACENT WALL. З  $\square$ 4  $\cap$ RO 00 N. RO Z VERSION 4 Δ HIPM, 64086 #200 ΥPE MO PROTOT . **1**MIT NN  $\supset$ S 0 S 61 ш Ш - R4.5 RIGID INSULATION — 2x4 FURRING \_\_\_\_\_ - TRIM - THIN BRICK 513 MAIN STREET #300 - MORTAR AND LATH FORT WORTH TX 76102 - R4.5 RIGID INSULATION SEA WRB SHEATHING - BATT INSULATION - GYP STEVEN COX NUMBER A-2023017238 4 PANEL AT CORNER EXPRESS BUMP OUT - PLAN 3" = 1'-0" PERMIT SET: 04/12/2024 CONTRACTOR SHALL VERIFY ALL CONDITIONS AND DIMENSIONS AT THE JOB SITE AND NOTIFY THE ARCHITECT OF ANY DIMENSIONAL ERRORS, OMISSIONS OR DISCREPANCIES BEFORE BEGINNING OR FABRICATING ANY WORK. DO NOT SCALE DRAWINGS. ISSUE DATE DESCRIPTION SEALANT -INTERIOR WD SHIM PROJECT INFORMATION PROJECT NO: 24-0087 ORIGINAL ISSUE: 06/01/2023 AS NOTED SCALE: DRAWN BY: V. PEREZ CHECKED BY: J. JEFFERY — 1/2" PLYWOOD SHEATHING SHEET TITLE SEALANT -– WRB LAP SIDING PLAN DETAILS EXTERIOR SHEET NUMBER

A501











V. PEREZ

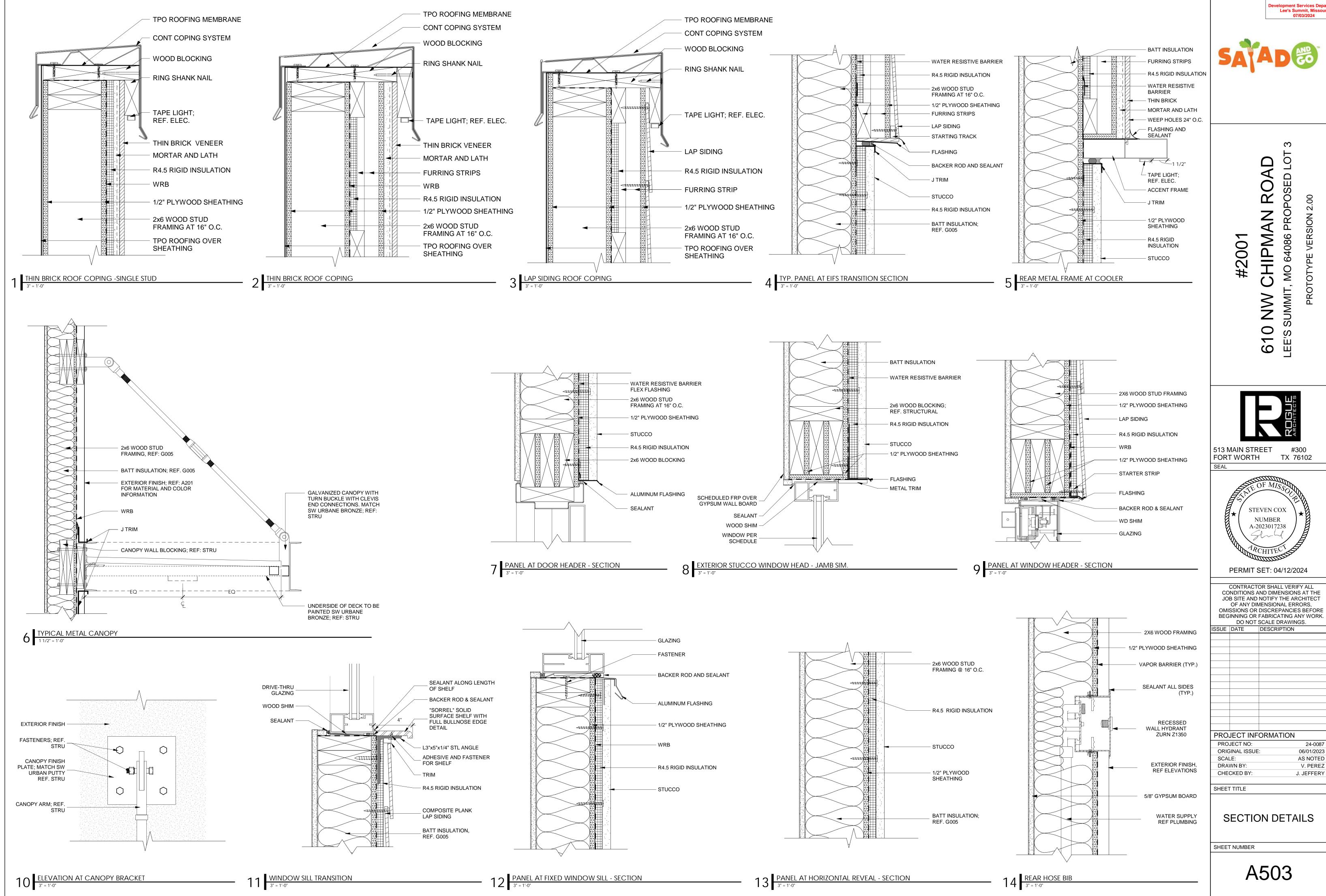
J. JEFFERY

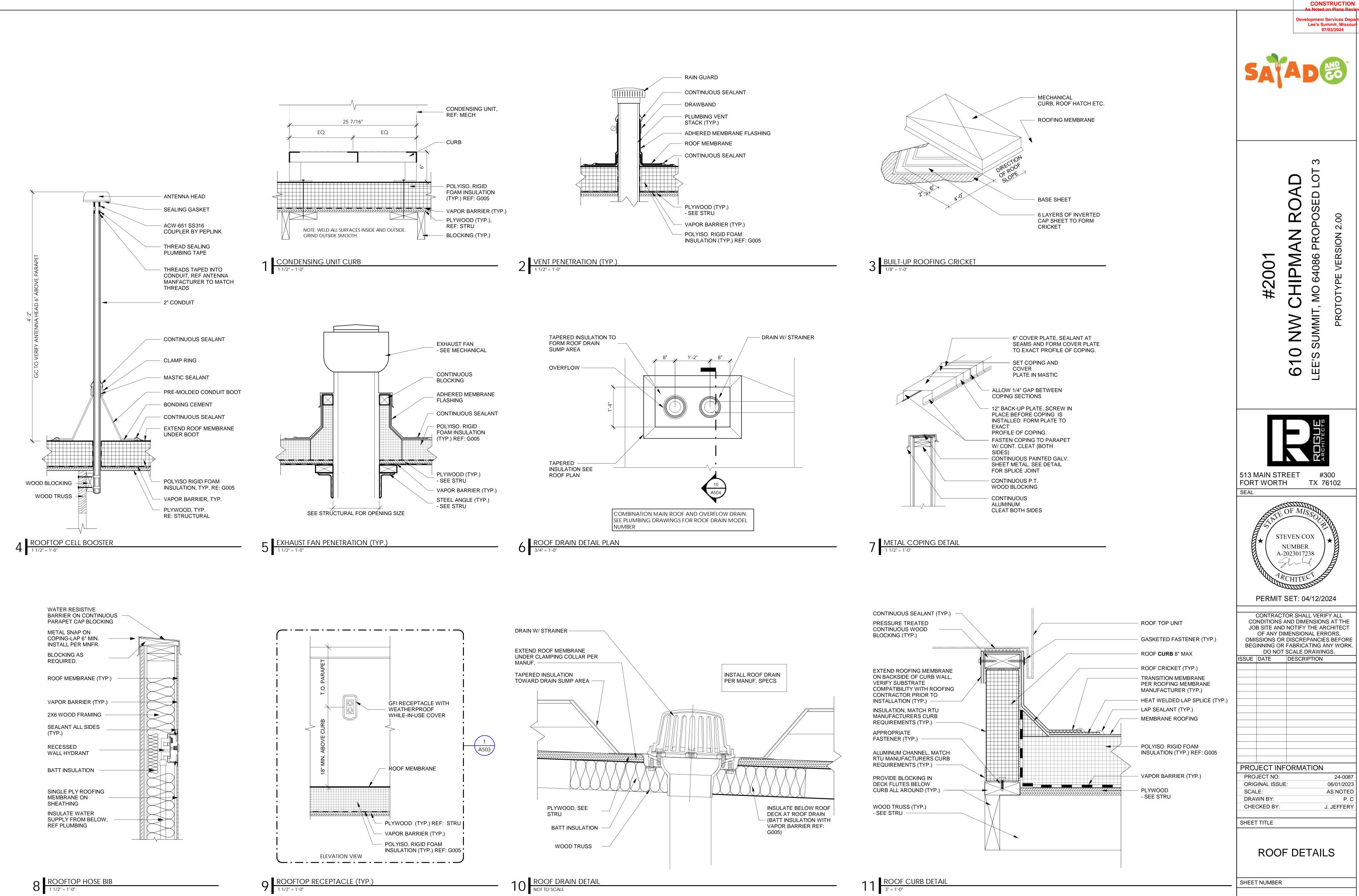
SHEET NUMBER

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SHEET TITLE

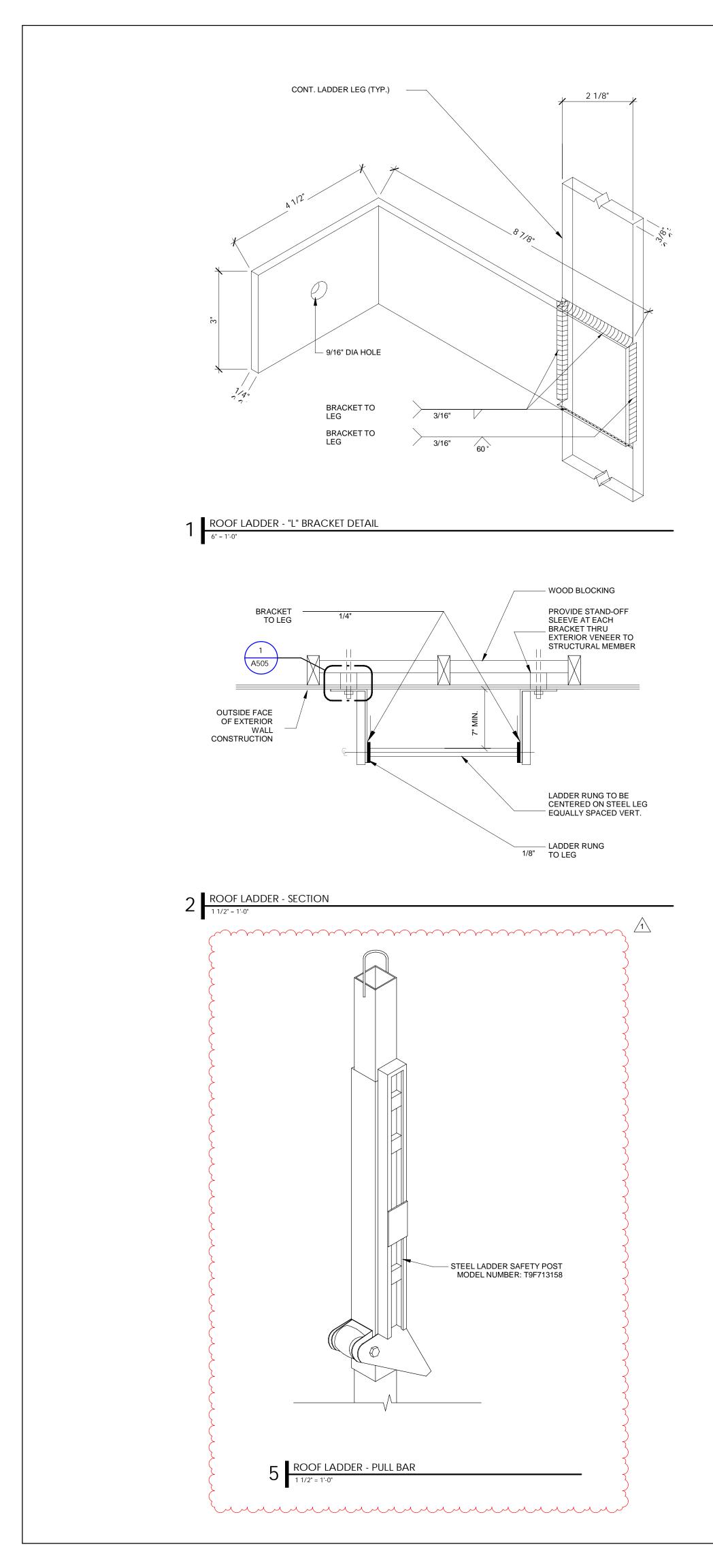


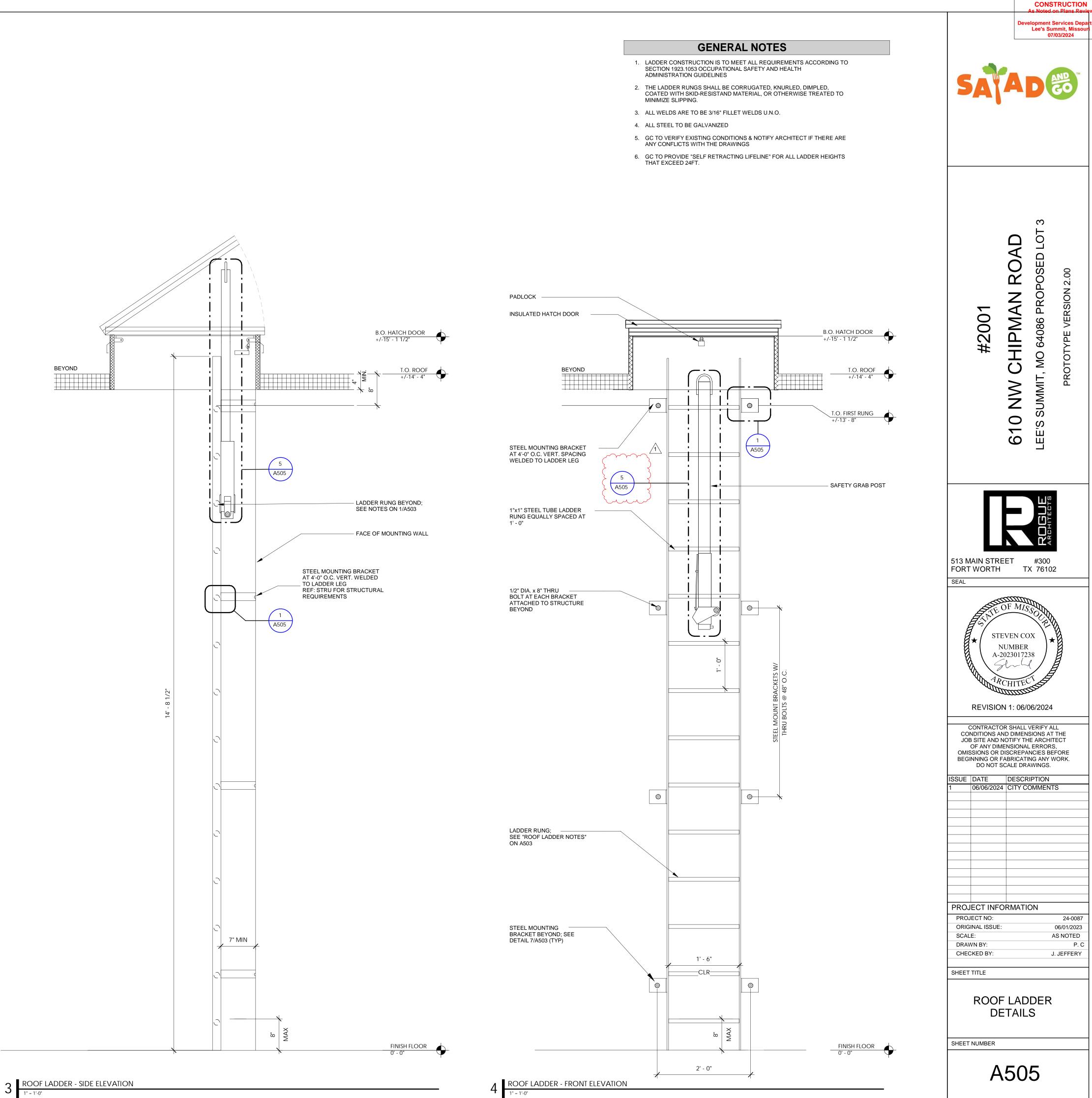




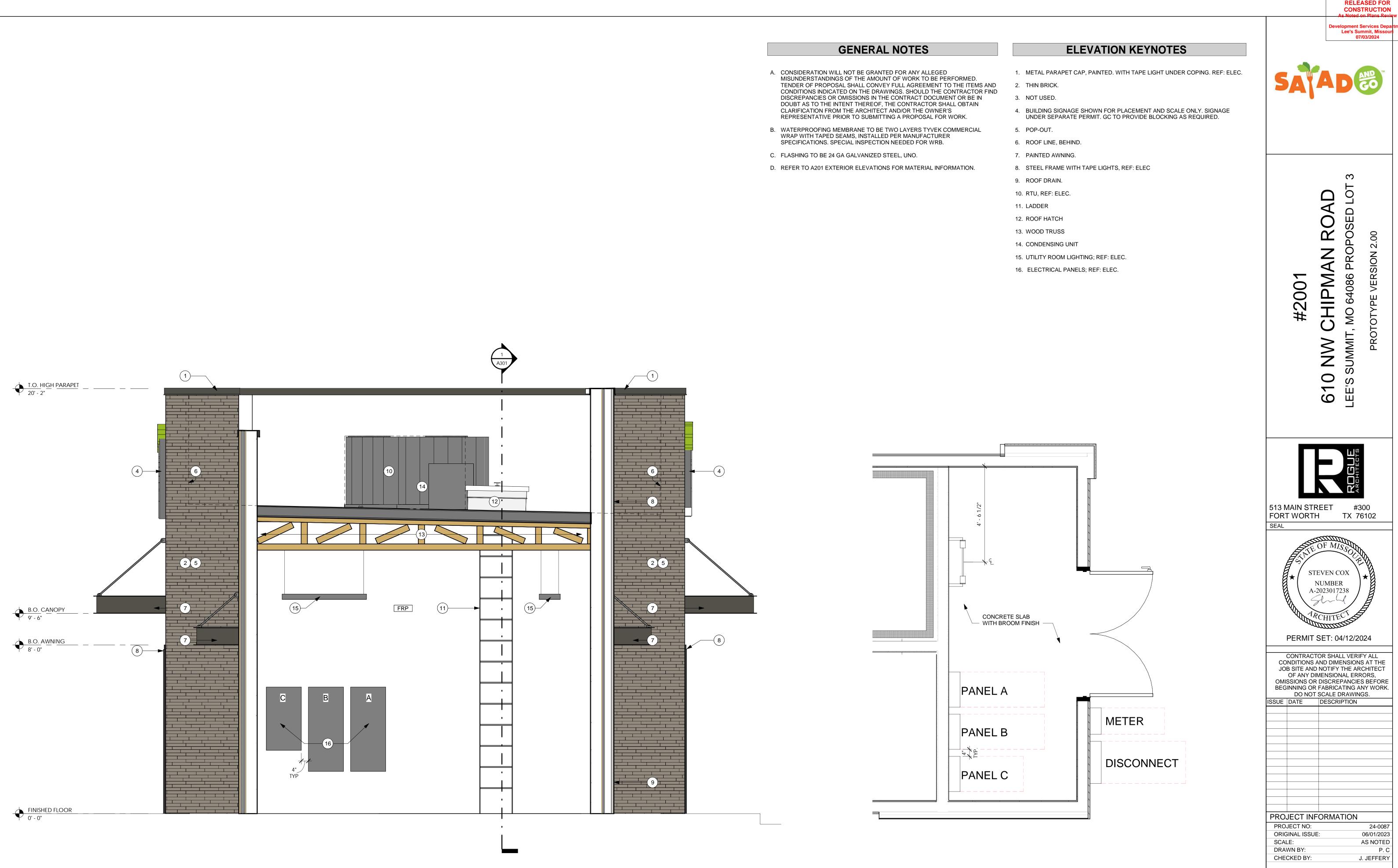


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2 UTILITY ROOM PLAN 1/2" = 1'-0"

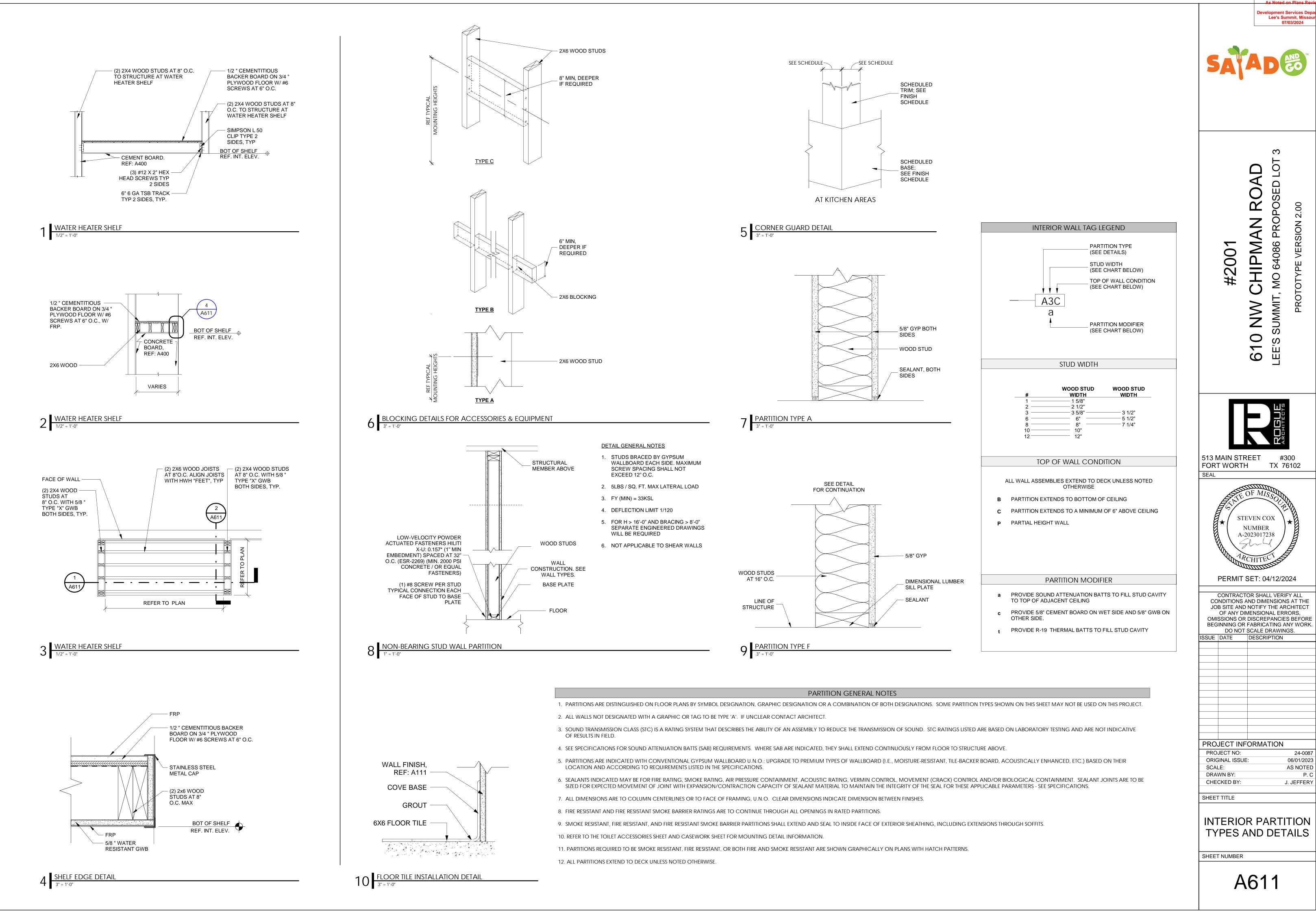
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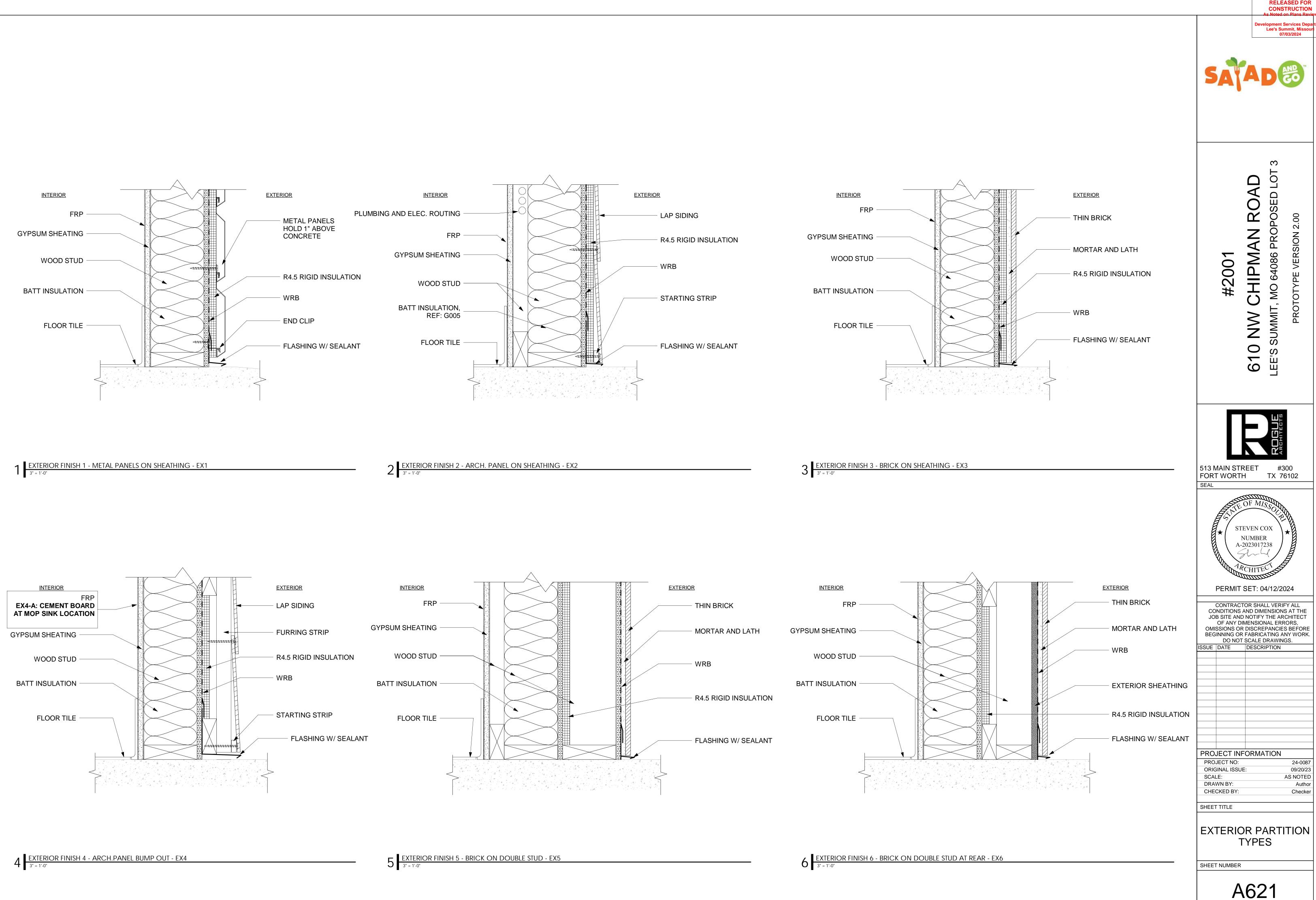
ELECTRIC PANEL

DETAILS



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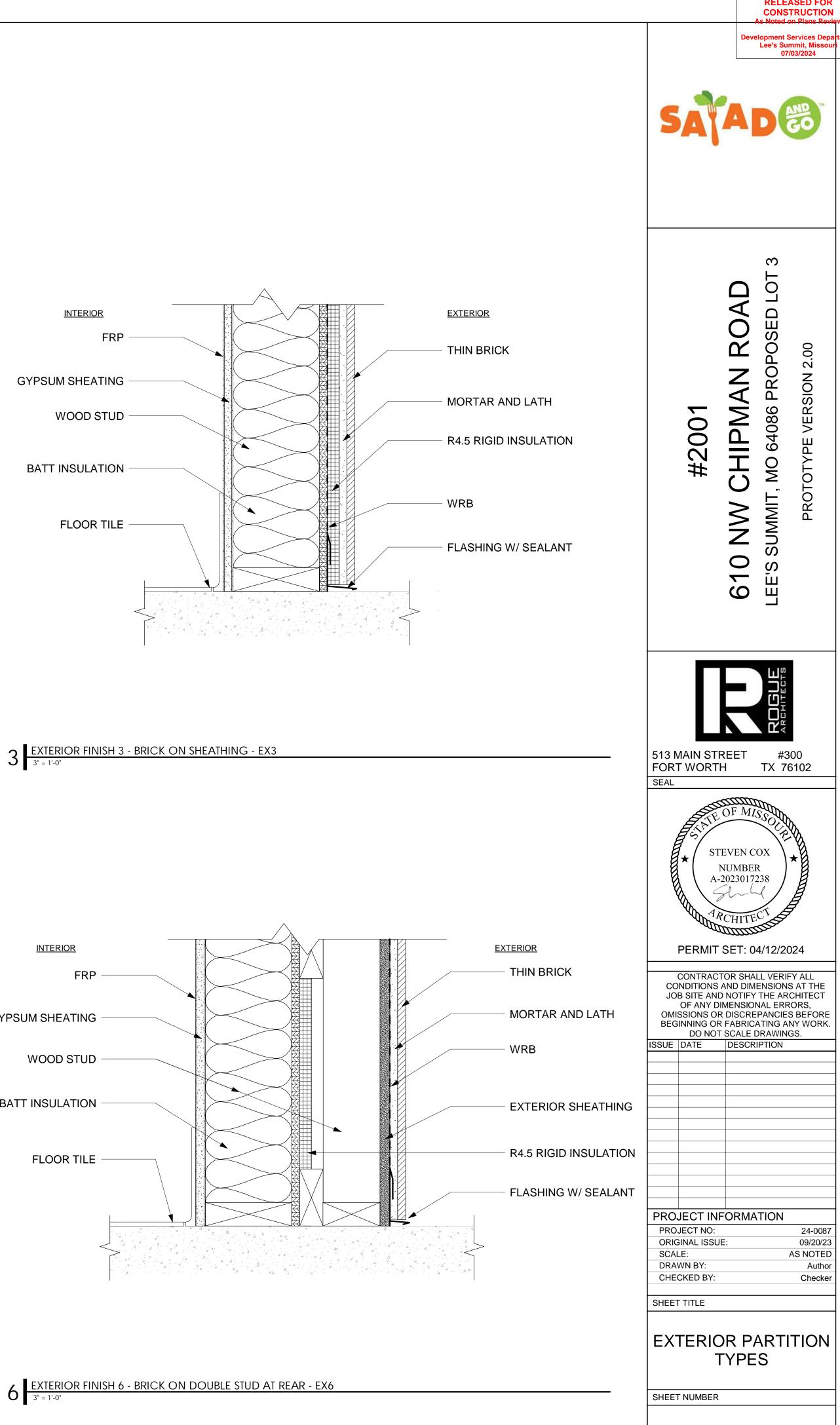


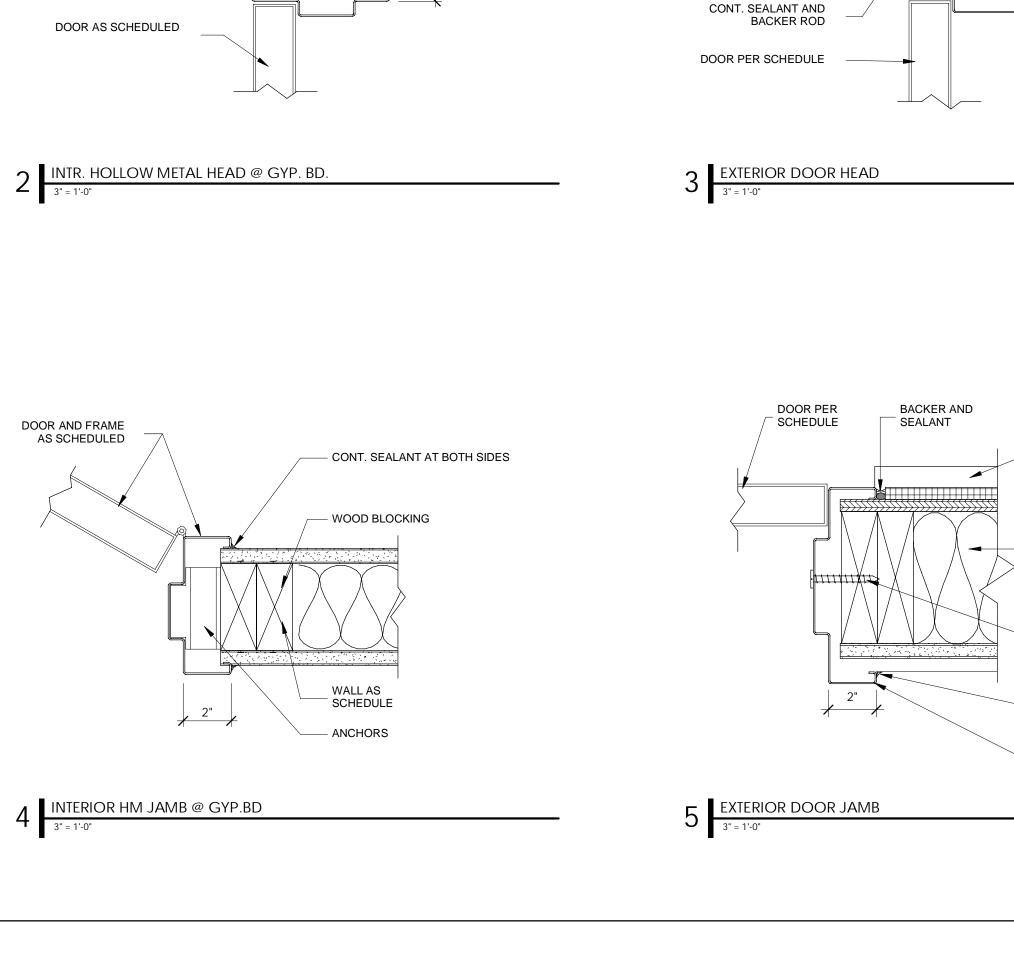


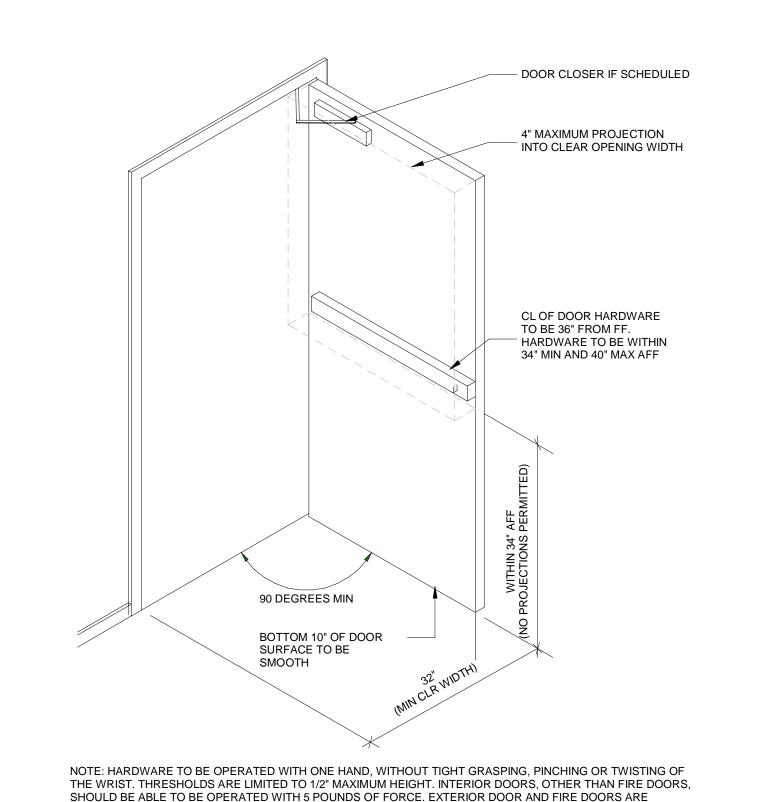


| - THIN BRICK            |      |
|-------------------------|------|
| - MORTAR AND LATH       | GYPS |
| - WRB                   |      |
| - R4.5 RIGID INSULATION | BAT  |
|                         |      |

| _ | INTERIOR        |
|---|-----------------|
|   | FRP             |
|   | YPSUM SHEATING  |
|   | WOOD STUD       |
|   | BATT INSULATION |
|   | FLOOR TILE      |







REGULATED BY THE AUTHORITY HAVING JURISDICTION. REFER TO ICC A117.1 FOR APPROACH REQUIREMENTS.

TYPICAL ACCESSIBLE DOOR DETAIL

WALL AS SCHEDULED

CONT. SEALANT AT BOTH SIDES

DOOR FRAME

AS SCHEDULED

1/4" = 1'-0'

- FRAMES.
- ARCHITECT WHEN QUESTIONS ARISE.
- - E. FIRE DOORS SHALL HAVE THE MINIMUM OPENING FORCE ALLOWABLE BY THE APPROPRIATE ADMINISTRATIVE

  - G. ALL DOOR LOCKSETS AND PANIC DEVICES SHALL BE ADA COMPLIANT. OF THE FRAMES.

  - AND SYSTEM.
  - N. ALL THRESHOLDS SHALL BE ACCESSIBLE.

WALL AS SCHEDULED

EXTERIOR FINISH

### DOOR GENERAL NOTES:

A. THE CONTRACTOR IS TO VERIFY THE DIMENSIONS OF ALL OPENINGS PRIOR TO THE FABRICATION OF ALL DOORS AND

B. DUE TO MULTIPLE USE, SOME OF THE DETAILS REFERRED TO ON THE DOOR SCHEDULE ARE REVERSED OR TURNED FROM THE DIRECTION SHOWN ON THE FLOOR PLANS. THE INTENT OF THE DETAILS IS TO BE FOLLOWED. CONSULT THE

C. ALL EXIT ACCESS DOORS AND EXIT DOORS SHALL BE OPERABLE FROM THE INSIDE WITHOUT THE USE OF A KEY, SPECIAL KNOWLEDGE, OR EFFORT. USE OF MANUAL FLUSH BOLTS, EDGE BOLTS, TOP OR BOTTOM BOLTS, ETC., IS PROHIBITED.

D. DOOR CLOSERS SHALL BE ADJUSTED SO THAT FROM AN OPEN POSITION OF 90 DEGREES, THE TIME REQUIRED TO MOVE THE DOOR TO AN OPEN POSITION OF 12 DEGREES WILL BE 5 SECONDS MINIMUM.

AUTHORITY. THE REQUIRED FORCE FOR PUSHING OPEN OR PULLING OPEN DOORS OTHER THAN FIRE DOORS SHALL BE 5 POUNDS. THESE FORCES DO NOT APPLY TO THE FORCE REQUIRED TO RETRACT LATCH BOLTS OR DISENGAGE OTHER DEVICES THAT HOLD THE DOOR IN A CLOSED POSITION.

F. THE BOTTOM 10" OF ALL DOORS EXCEPT AUTOMATIC DOORS, POWER ASSISTED DOORS, AND SLIDING DOORS SHALL HAVE A SMOOTH UNINTERRUPTED SURFACE TO ALLOW THE DOOR TO BE OPENED BY A WHEELCHAIR FOOTREST WITHOUT CREATING A TRAP OR HAZARDOUS CONDITION. WHEN NARROW STILE AND RAIL DOORS ARE USED, A 10" MINIMUM, SMOOTH PANEL, EXTENDING THE FULL WIDTH OF THE DOOR, SHALL BE INSTALLED ON THE PUSH SIDE(S) OF THE DOOR WHICH ALLOW THE DOOR TO BE OPENED BY A WHEELCHAIR FOOTREST WITHOUT CREATING A TRAP OR HAZARDOUS CONDITION. CAVITIES CREATED BY KICK PLATES SHALL BE CAPPED.

H. CAULK HEAD, JAMBS, AND SILLS OF ALL DOORS AND WINDOWS WITH SEALANT CONTINUOUSLY APPLIED TO BOTH SIDES

I. ALL DOOR CLOSURES TO BE SET IN ACCORDANCE WITH THE ADA REDUCED OPENING FORCE REQUIREMENTS.

J. DOOR HARDWARE SUBSTITUTIONS SHALL BE PERMITTED. (MANUFACTURER ONLY) WITH OWNER'S WRITTEN APPROVAL. K. KEYING FOR ALL SCHEDULED LOCKSETS SHALL BE PROVIDED BY OWNER.

L. PROVIDE SOLID BACK FRAMES FOR ALL STOREFRONT SYSTEMS.

M. FRAME DIMENSIONS SHOWN ARE NOMINAL. ACTUAL DIMENSIONS MAY VARY DEPENDING ON WINDOW MANUFACTURER

O. ALL DOORS ON THE ACCESSIBLE ROUTE OR CIRCULATION PATH SHALL HAVE A MAX. OPENING FORCE OF 5 LBS. P. REFER TO AS002 FOR TRASH ENCLOSURE DOOR SPECIFICATION.

| DOOR SCHEDULE |           |          |         |      |             |                    |            |          |                                  |        |                                                                               |
|---------------|-----------|----------|---------|------|-------------|--------------------|------------|----------|----------------------------------|--------|-------------------------------------------------------------------------------|
| DOOR          |           |          |         |      |             | DOOR               |            |          |                                  | FRAME  |                                                                               |
| NO.           | ROOM NAME | WIDTH    | HEIGHT  | TYPE | THICKNESS   | MATERIAL           | FINISH     | HARDWARE | FRAME MATERIAL                   | FINISH | COMMENTS                                                                      |
|               |           |          |         | 1    |             |                    |            |          |                                  |        |                                                                               |
| 100           | SERVICE   | 3' - 6"  | 7' - 0" | F1   | 0' - 1 3/4" | HOLLOW<br>METAL    | P-2        | 01       | HOLLOW METAL - COLD ROLLED STEEL | PAINT  | PROVIDE AVANTEK LD-DB-21-A, VIEWER 60" AFF<br>MOUNTING HEIGHT, SEE DOOR NOTES |
| 101           | COOLER    | 3' - 0"  | 7' - 0" | N/A  | -           | STAINLESS<br>STEEL | BY<br>MFG. | -        | STAINLESS STEEL                  | -      | COOLER DOOR PER MANUFACTURER                                                  |
| 103           | RESTROOM  | 3' - 0"  | 7' - 0" | F3   |             | SOLID WOOD<br>CORE | PL-1       | 02       | HOLLOW METAL - COLD ROLLED STEEL | PAINT  | ADA SIGNAGE REQUIRED                                                          |
| 104           | UTILITY   | 6' - 0"" | 7' - 0" | F2   |             | HOLLOW<br>METAL    | P-2        | 03       | HOLLOW METAL - COLD ROLLED STEEL | PAINT  |                                                                               |

0' - 2

### DOOR STOP NOTES:

A. FLOOR STOPS AT EXTERIOR DOORS a. CENTER STOP ON THE DOOR LEAF WHEN OPENED

b. ALLOW FOR 90 DEGREE OPEN WHEN ADJACENT TO AN OBSTRUCTION

c. ALLOW FOR 100 DEGREE OPEN WHERE NOT ADJACENT TO

OBSTRUCTION B. FLOOR STOPS AT INTERIOR DOORS

F1 HOLLOW METAL SINGLE 18 GAUGE

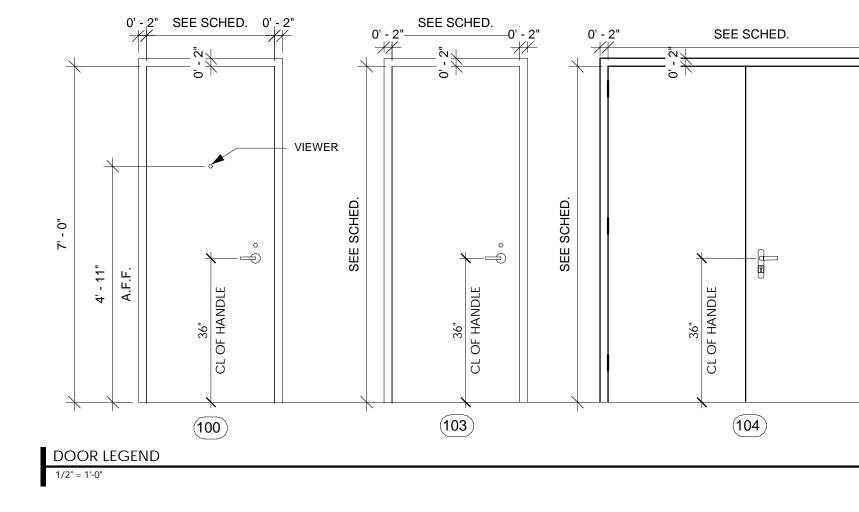
F2 HOLLOW METAL DOUBLE 18 GAUGE

F3 SOLID WOOD CORE WITH LAMINATE FINISH

a. CENTER STOP ON THE DOOR LEAF WHEN OPENED b. ONLY ALLOW FOR 90 DEGREE OPEN.

|      | DOOR FINISH LEGEND                                           |
|------|--------------------------------------------------------------|
| PL-1 | PLASTIC LAMINATE - MATCH SHERWIN WILLIAMS SW7004 "SNOWBOUND" |
| P-2  | PAINTED SHERWIN WILLIAMS - SW7048 "URBANE BRONZE"            |
|      |                                                              |
|      |                                                              |
|      |                                                              |
|      | DOOR TYPE LEGEND                                             |

| $\land$ _  |                   |
|------------|-------------------|
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|            |                   |
|            |                   |
| / 🙀 🗸      |                   |
|            | CONT. SEALANT     |
|            |                   |
|            |                   |
|            | HM FRAME, PAINTED |
| _          |                   |



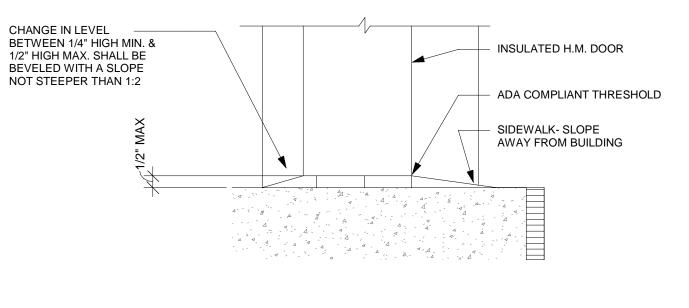
- FINISH PER SCHEDULE

- WALL AS SCHEDULED

- COUNTER SUNK FASTENER

- CONT. SEALANT

– HM FRAME, PAINTED



6 EXTERIOR DOOR THRESHOLD 3" = 1'-0"

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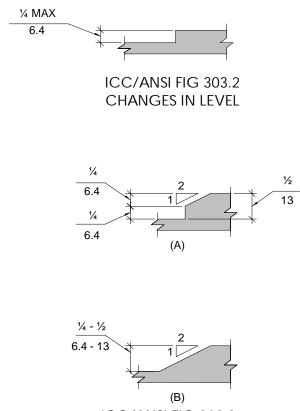
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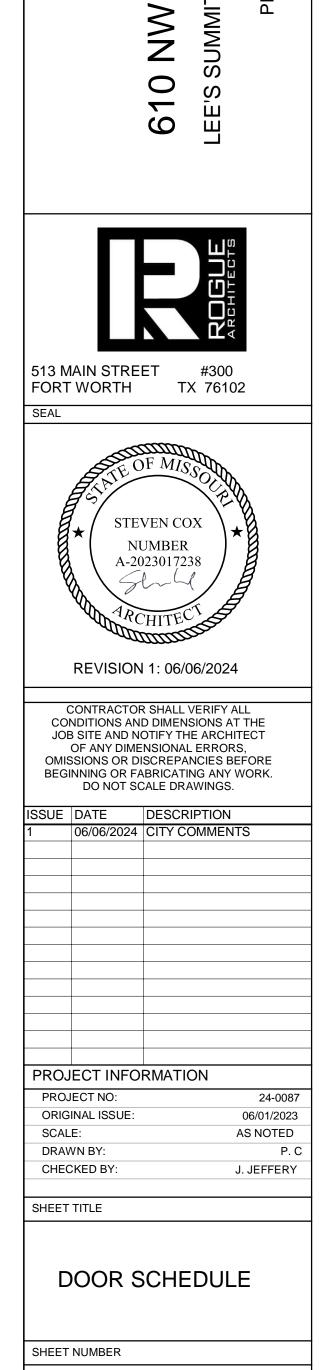
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|                     | DOOR HARDWARE                       |        |      |
|---------------------|-------------------------------------|--------|------|
| $\overline{\gamma}$ |                                     |        |      |
| HARD                | WARE GROUP - 01 SERVICE             | FINISH | MANF |
| 3 EA                |                                     | 628    | IVE  |
| 1 EA                | ENTRANCE LOCK - ND53PD RHO          | 626    | SCH  |
| 1 EA                | PERM CORE - 23-030 "C" KEYWAY       | 626    | SCH  |
|                     | LOCK GUARD - LG12                   | 630    | IVE  |
| 1 EA                | SURFACE CLOSER - LCN 4040XP         | 689    | LCN  |
| 1 EA                | KICK PLATE - 8400 12" X 2" LDW B-CS | 630    | IVE  |
| 1 EA                | RAIN DRIP - 142AA                   | AA     | ZER  |
| 1 EA                | WEATHERSTRIP - 8303AA               | AA     | ZER  |
| 1 EA                | DOOR SWEEP - 39A                    | A      | ZER  |
| 1 EA                | THRESHOLD - 8655A 223               | A      | ZER  |
| 1 EA                | VIEWER - 698                        | 626    | IVE  |
| 1 EA                | KICK DOWN DOOR STOP                 | 626    |      |
|                     | NO PANIC ON THIS DOOR               |        |      |
|                     |                                     |        |      |
| HARE                | WARE GROUP - 02 RESTROOM            | FINISH | MAN  |
| 3 EA                | HW HINGES - 5BB1 4.5 X 4.5 NRP      | 630    | IVE  |
| 1 EA                | PRIVACY - ND40S RHO                 | 626    | SCH  |
| 1 EA                | SURFACE CLOSER - 1461 REG           | 689    | LCN  |
| 1 EA                | 8400 10" X 2" LDW B-CS              | 630    | IVE  |
| 1 EA                | WALL STOP - WS401/402CCV            | 626    | IVE  |
| 1 EA                | DOOR SEAL - 188S                    | BK     | ZER  |
| ΗΔΡΓ                | WARE GROUP - 03 UTILITY             | FINISH | MAN  |
| 6 EA                | HINGE - 5BB1HW 5 X 4.5 NRP          | 630    | IVE  |
| 1 EA                | ENTRANCE LOCK - ND53PD RHO          | 626    | SCH  |
| 1 EA                | PERM CORE - 23-030 "C" KEYWAY       | 626    | SCH  |
|                     | LOCK GUARD - LG12                   |        |      |
| 1 EA                |                                     | 630    | IVE  |
| 1 EA                | SURFACE CLOSER - 1461 SHCUSH TBWNS  | 689    |      |
| 1 EA                | KICK PLATE - 8400 12" X 2" LDW B-CS | 630    | IVE  |
| 1 EA                | RAIN DRIP - 142AA                   | AA     | ZER  |
| 1 EA                | WEATHERSTRIP - 8303AA               | AA     | ZER  |
| 1 EA                | DOOR SWEEP - 39A                    | A      | ZER  |
| 1 EA                | THRESHOLD - 8655A 223               | A      | ZER  |
|                     |                                     |        |      |

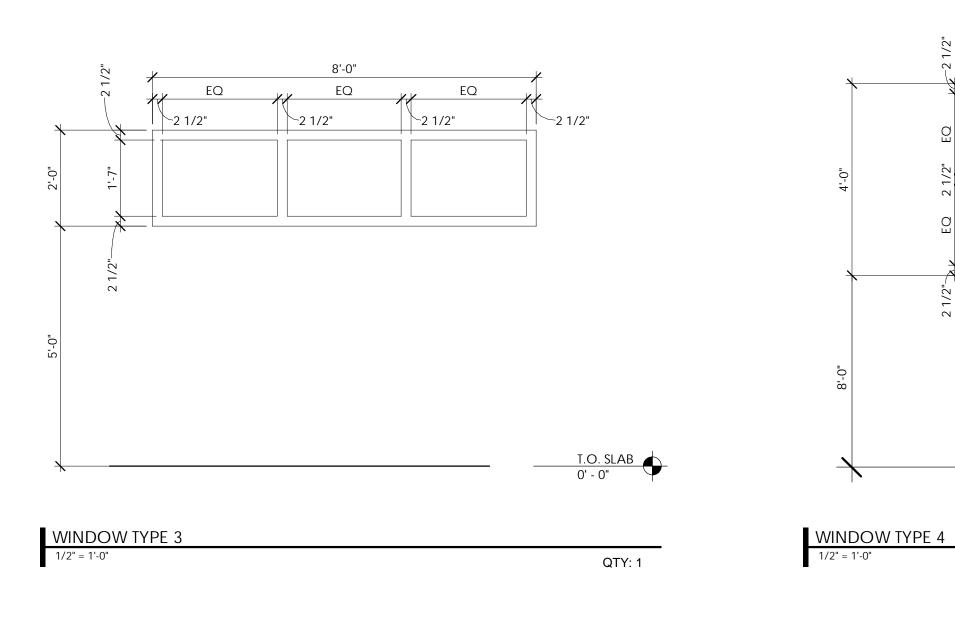


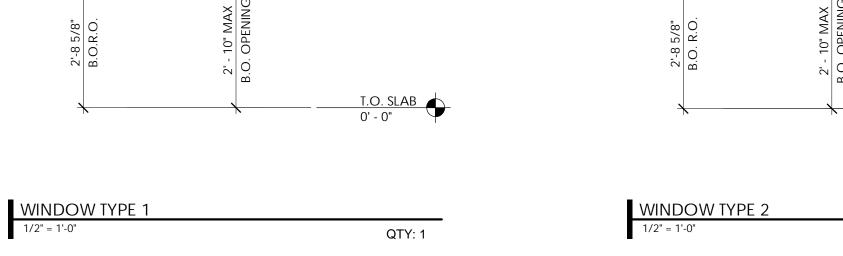
ICC/ANSI FIG 303.3 **BEVELED CHANGES IN LEVEL** 

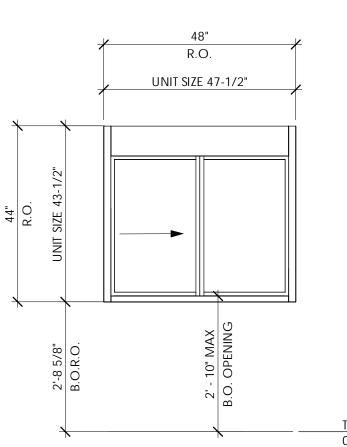
7 GROUND AND FLOOR

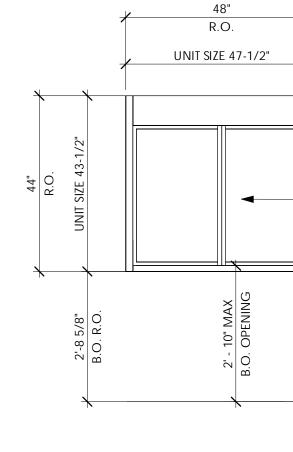


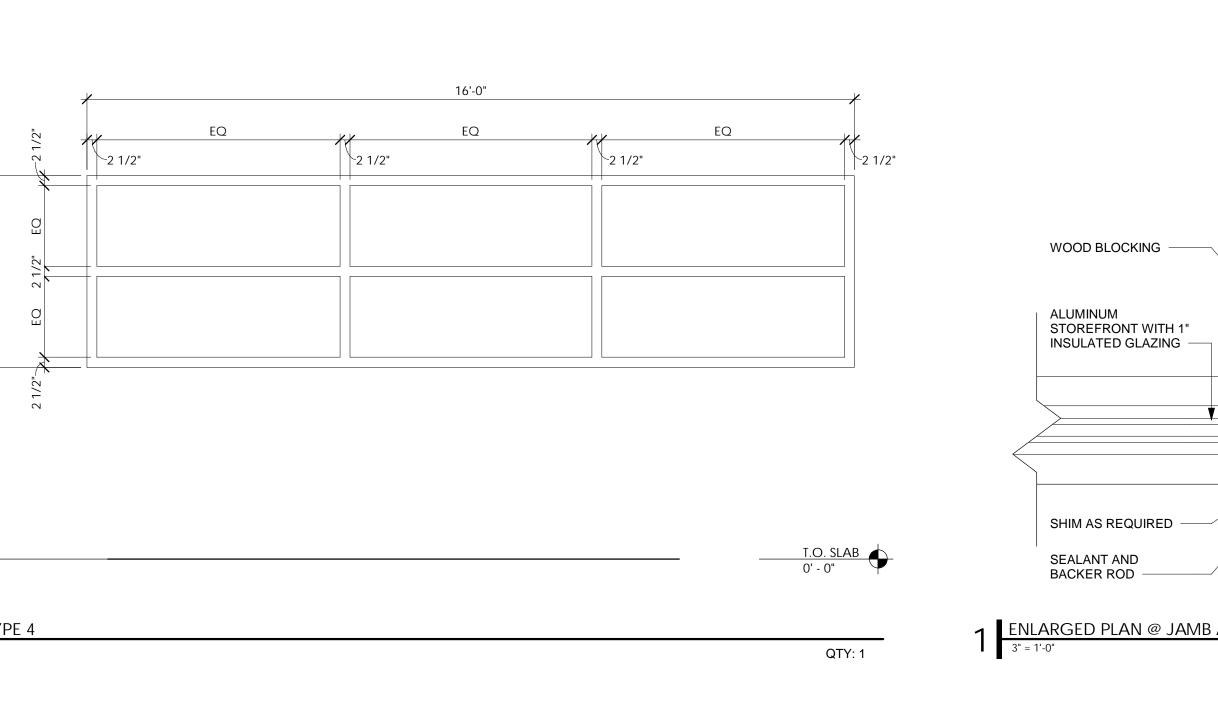
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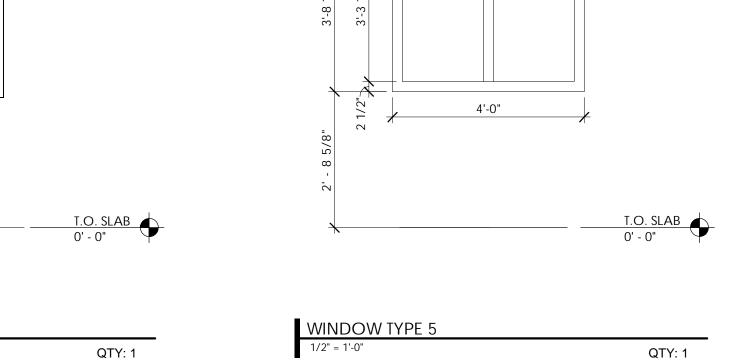












\_\_2 1/2"

-2 1/2"

\_\_\_\_2 1/2"

| WINDOW<br>MARK | WIDTH    | HEIGHT      | SILL HEIGHT           | FINISH         |
|----------------|----------|-------------|-----------------------|----------------|
| 1 & 2          | 4' - 0"  | 3' - 8"     | 2' - 8 5/8"<br>MAX TO | dark<br>Bronze |
| 3              | 8' - 0"  | 2' - 0"     | 5' - 0"               | BLACK          |
| 4              | 16' - 0" | 4' -0"      | 8' - 0"               | BLACK          |
| 5              | 4' - 0"  | 3' - 8 1/2" | 2' - 10"              | BLACK          |
|                | •        | •           |                       | •              |

GLAZING SCHEDULE

З  $\square$ く WINDOW SCHEDULE  $\square$ **HIPMAN RO** ഗ COMMENTS PROPO **VERSION 2.00** GLAZING PROVIDE AVANTEK LD-DB-21-A, MODEL 275 - READY ACCESS; MODEL SC4844 -G-1 QUICK SERV; DRIVE THRU WINDOW (MANUAL OPEN - SELF CLOSE) G-1 KAWNEER 451 64086 #2001 G-1 KAWNEER 451 G-1 KAWNEER 451 ркототуре SUMMIT, MO WINDOW GENERAL NOTES:  $\bigcirc$ G-1 CLEAR 1" GUARDIAN TEMPERED W/ SN68 (SUNGUARD SUPERNEUTRAL) LOW-E COATING A. THE CONTRACTOR IS TO VERIFY THE DIMENSIONS OF ALL OPENINGS PRIOR TO THE FABRICATION OF ALL DOORS AND FRAMES. NN B. DUE TO MULTIPLE USE, SOME OF THE DETAILS REFERRED TO ON THE DOOR SCHEDULE ARE REVERSED OR TURNED FROM THE DIRECTION SHOWN ON THE FLOOR PLANS. THE INTENT OF THE DETAILS IS TO BE FOLLOWED. CONSULT THE ARCHITECT WHEN QUESTIONS ARISE. 610 S C. CAULK HEAD, JAMBS, AND SILLS OF ALL DOORS AND WINDOWS WITH SEALANT Ш CONTINUOUSLY APPLIED TO BOTH SIDES OF THE FRAMES. Ш D. PROVIDE END DAMS AT BOTTOM OUTSIDE CORNERS OF ALUMINUM STOREFRONT SYSTEMS. INSTALL PER MANUFACTURERS STANDARDS AND REQUIREMENTS. E. FRAME DIMENSIONS SHOWN ARE NOMINAL. ACTUAL DIMENSIONS MAY VARY DEPENDING ON WINDOW MANUFACTURER AND SYSTEM. F. ALL OPERABLE SERVICE WINDOWS SHALL HAVE CORIAN SOLID SURFACE SHELF INSTALLED BY GC BELOW. REF. A302, A303, AND A503 FOR DETAILS 513 MAIN STREET #300 FORT WORTH TX 76102 SEAL STEVEN COX NUMBER A-2023017238 PERMIT SET: 04/12/2024 CONTRACTOR SHALL VERIFY ALL CONDITIONS AND DIMENSIONS AT THE WALL ASSEMBLY JOB SITE AND NOTIFY THE ARCHITECT AS SCHEDULED -OF ANY DIMENSIONAL ERRORS, OMISSIONS OR DISCREPANCIES BEFORE BEGINNING OR FABRICATING ANY WORK. DO NOT SCALE DRAWINGS. ISSUE DATE DESCRIPTION — EXTERIOR FINISH PLYWOOD SHEATHING, REF: STRU PROJECT INFORMATION 1 ENLARGED PLAN @ JAMB AT STEEL CHANNEL AND STOREFRONT PROJECT NO: 24-0087 09/28/23 AS NOTED ORIGINAL ISSUE: SCALE: DRAWN BY: P. C CHECKED BY: J. JEFFERY SHEET TITLE WINDOW SCHEDULE

SHEET NUMBER

A641

RELEASED FOR CONSTRUCTION As Noted on Plans Reviev opment Services De Lee's Summit, Missour 07/03/2024

|                                  | IFICATIONS AND GENERAL CONDITIONS                                                                                                                                                                                                                                                                                                                                  |                                                | WORK SHALL NOT RELIEVE CONTRACTOR FROM THE RESPONSIBILITY FOR ESTIMATING PROPERLY THE                                                                                                                                                                                                                                                                                                                                             |
|----------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                  | RAL CONDITIONS A201 – 2007 AIA GENERAL CONDITIONS OF THE CONTRACT FOR CONSTRUCTION                                                                                                                                                                                                                                                                                 | 1.11                                           | DIFFICULTY OR COST OF SUCCESSFULLY PERFORMING THE WORK.<br>NEITHER THE PRESENCE NOR ABSENCE OF OWNER OR ARCHITECT, NOR THEIR AUTHORIZED                                                                                                                                                                                                                                                                                           |
| 01 10<br>01 12<br>01 32          | 00 SUMMARY<br>00 MULTIPLE CONTRACTS                                                                                                                                                                                                                                                                                                                                | 1.12                                           | REPRESENTATIVES, SHALL RELIEVE CONTRACTOR FROM REQUIREMENTS OF THE CONTRACT DOCUMENTS<br>WHEN REQUESTED BY ARCHITECT, CONTRACTOR SHALL DELIVER TO ARCHITECT (PRIOR TO FINAL                                                                                                                                                                                                                                                       |
| 01 33<br>01 43                   | 00 SUBMITTALS<br>00 TESTING AND SPECIAL INSPECTIONS                                                                                                                                                                                                                                                                                                                | 1.13                                           | ACCEPTANCE OF THE WORK AS A WHOLE) SIGNED CERTIFICATES FROM SUPPLIERS OF MATERIALS AND MANUFACTURED ITEMS STATING THAT SUCH ITEMS CONFORM TO CONTRACT DOCUMENTS.                                                                                                                                                                                                                                                                  |
| 01 50<br>01 73<br>01 74          | 00 DEMOLITION                                                                                                                                                                                                                                                                                                                                                      | 1.15                                           | SAMPLES ARE REQUIRED, UPON RECEIPT OF THEIR APPROVAL) SHALL PLACE ORDERS FOR MATERIALS, WORK, FABRICATION AND EQUIPMENT TO BE INCORPORATED IN THE WORK. CONTRACTOR SHALL KEEP                                                                                                                                                                                                                                                     |
|                                  | 00 CONTRACT CLOSE OUT<br>ON 3 - CONCRETE                                                                                                                                                                                                                                                                                                                           |                                                | ARCHITECT INFORMED AS TO THE AVAILABILITY OF MATERIALS, WORK, FABRICATIONS AND EQUIPMENT<br>SPEGIFIED AND TO ADVISE ARCHITECT, IN WRITING, OF ORDERS PLACED AND OF SUCH MATERIAL, WORK,<br>FABRICATION AND EQUIPMENT, WHICH MAY NOT BE AVAILABLE FOR THE PURPOSES OF THE CONTRACT.                                                                                                                                                |
| 03 30                            | 00 CAST IN PLACE CONCRETE (REFER TO STRUCTURAL SET)                                                                                                                                                                                                                                                                                                                | 1.14                                           | LABOR SHALL BE PERFORMED IN THE BEST MOST COMPETENT MANNER, BY MECHANICS SKILLED IN THEIR<br>RESPECTIVE TRADES. STANDARDS FOR WORK REQUIRED THROUGHOUT SHALL BE OF SUCH GRADE AS                                                                                                                                                                                                                                                  |
| 04 21                            | ON 4 – MASONRY<br>50 THIN BRICK VENEER                                                                                                                                                                                                                                                                                                                             | 1.15                                           | WILL RESULT IN FIRST CLASS WORK.<br>REPLACING, PATCHING AND REPAIRING OF MATERIALS AND SURFACES CUT OR DAMAGED IN THE                                                                                                                                                                                                                                                                                                             |
| 05 58                            | ON 5 – METALS<br>00 METALS FABRICATION (REFER TO STRUCTURAL SET)<br>ON 6 - WOOD, PLASTIC AND COMPOSITES                                                                                                                                                                                                                                                            | 1.15                                           | EXECUTION OF THE WORK SHALL BE PERFORMED BY EXPERIENCED MECHANICS. SUCH REPLACING,<br>REPAIRING AND PATCHING SHALL BE DONE WITH THE APPLICABLE MATERIALS, IN SUCH A MANNER THAT<br>SURFACES SO REPLACED WILL MATCH THE SURROUNDING SIMILAR SURFACES.                                                                                                                                                                              |
| 06 11<br>06 20<br>06 40<br>06 42 | 00 WOOD FRAMING<br>00 FINISH CARPENTRY<br>00 ARCHITECTURAL WOODWORK                                                                                                                                                                                                                                                                                                | 1.16                                           | CONTRACTOR AGREES THAT EACH SUBCONTRACT SHALL CONTAIN AN EXPRESS PROVISION<br>SATISFACTORY IN FORM AND CONTENT TO OWNER WHEREBY SUCH SUBCONTRACTOR OR MATERIAL<br>SUPPLIER EXPRESSLY AGREES THAT FOR THE BENEFITS OF OWNER, IT WAIVES RIGHTS TO FILE<br>MECHANICS LIENS WITH RESPECT TO UNPAID SERVICES OR MATERIALS PROVIDED BY IT AS SPECIFIED BY                                                                               |
| DIVISI<br>07 13                  | ON 7 - THERMAL AND MOISTURE PROTECTION<br>00 MEMBRANE WATERPROOFING                                                                                                                                                                                                                                                                                                | 1.17                                           | CURRENT STATE STATUTES.<br>IN THE EVENT THAT THE BUILDING INSPECTOR OR OTHER PUBLIC OFFICIAL REQUIRES THAT ADDITIONAL                                                                                                                                                                                                                                                                                                             |
| 07 14<br>07 21<br>07 24          | 00 FLUID APPLIED WATERPROOFING<br>00 THERMAL INSULATION                                                                                                                                                                                                                                                                                                            |                                                | WORK BE DONE OR THAT THE WORK UNDER CONTRACT DOCUMENTS BE MODIFIED, CONTRACTOR SHALL<br>NOTIFY ARCHITECT IN WRITING OF THE REQUESTED CHANGE. ARCHITEIT WILL REVIEW THE REQUESTED<br>CHANGE AND ADVISE CONTRACTOR IN WRITING. THE WORK PERFORMED WITHOUT WRITTEN PERMISSION                                                                                                                                                        |
| 07 25<br>07 42                   | 00 SOUND ATTENUATION BATTS<br>43 COMPOSITE PANELS                                                                                                                                                                                                                                                                                                                  |                                                | SHALL BE AT THE EXPENSE OF CONTRACTOR.                                                                                                                                                                                                                                                                                                                                                                                            |
| 07 46<br>07 54<br>07 65          | 23 TPO ROOFING<br>00 FLASHING                                                                                                                                                                                                                                                                                                                                      | SEC                                            | TION 01 12 00 / MULTIPLE CONTRACTS                                                                                                                                                                                                                                                                                                                                                                                                |
| 07 72<br>07 92                   |                                                                                                                                                                                                                                                                                                                                                                    | 1.1                                            | CONSTRUCTION ACTIVITIES, UNDER DIRECT SUPERVISION OF OWNER, ARE CONTEMPLATED IN THE SAME<br>AREA OF WORK DURING THE CONSTRUCTION PERIOD. OTHER CONTRACTORS BEGINNING PROGRESS                                                                                                                                                                                                                                                     |
| DIVISI<br>08 11<br>08 71         |                                                                                                                                                                                                                                                                                                                                                                    | 1.2                                            | DURING THE SAME PERIOD SHALL HAVE EQUAL RIGHTS TO USE THE ROADS, GROUNDS, AND AREAS.<br>OWNER WILL REQUIRE THE OCCUPANCY OF VARIOUS PORTIONS OF THE BUILDING IN ADVANCE OF THE                                                                                                                                                                                                                                                    |
| 08 81                            | 00 GLASS GLAZING                                                                                                                                                                                                                                                                                                                                                   | 1.2                                            | DATE ESTABLISHED IN THE CONTRACT DOCUMENTS FOR THE COMPLETION OF WORK. THE SCHEDULE OF DATES REQUIRED BY OWNER FOR USES OF THE VARIOUS AREAS PRIOR TO THE COMPLETION OF THE                                                                                                                                                                                                                                                       |
| 09 24 2<br>09 29                 |                                                                                                                                                                                                                                                                                                                                                                    |                                                | WORK SHALL BE PROVIDED BY OWNER. OWNER SHALL HAVE THE RIGHT TO OCCUPY PORTIONS OF THE BUILDING THAT ARE COMPLETED ON OR AFTER THE SPECIFIED COMPLETION DATE. SUCH OCCUPANCY BY OWNER WILL NOT RELEASE CONTRACTOR OR THEIR BONDING AGENCY FROM WARRANTIES OR                                                                                                                                                                       |
| 09 30<br>09 51<br>09 91          | 00 TILE<br>00 ACOUSTICAL TILE CEILING                                                                                                                                                                                                                                                                                                                              |                                                | GUARANTEES AND COMPLETION OF WORK IN ACCORDANCE WITH CONTRACT DOCUMENTS AND THE<br>CERTIFICATE OF OCCUPANCY OR EOUIVALENT HAVE BEEN ISSUED BY THE APPLICABLE GOVERNMENTAL<br>AGENCY                                                                                                                                                                                                                                               |
| 09 73                            | 00 PRE-FINISH PANEL (FRP)                                                                                                                                                                                                                                                                                                                                          |                                                | A. OWNER'S FORCES MAY BE EITHER UNION OR NON-UNION                                                                                                                                                                                                                                                                                                                                                                                |
| 10 73                            |                                                                                                                                                                                                                                                                                                                                                                    | SEC                                            | TION 01 32 00 / SURVEY                                                                                                                                                                                                                                                                                                                                                                                                            |
| <u>DIVISI</u><br>31 31           | ON 31- EARTHWORK<br>00 TERMITE TREATMENT                                                                                                                                                                                                                                                                                                                           | 1.1                                            | VERIFY LAYOUT INFORMATION SHOWN ON DRAWINGS IN RELATION TO PROPERTY SURVEY AND EXISTING<br>BENCHMARKS BEFORE PROCEEDING WITH LAYOUT OF WORK. RECORD DEVIATIONS FROM REQUIRED LINE                                                                                                                                                                                                                                                 |
| <u>GEN</u>                       | ERAL CONDITIONS                                                                                                                                                                                                                                                                                                                                                    | 1.2                                            | AND LEVELS AND ADVISE OWNER PROMPTLY UPON DETECTION OF DEVIATIONS.<br>IMMEDIATELY AFTER THE INSTALLATION OF THE BUILDING FOUNDATIONS, PREPARE A SURVEY SHOWING                                                                                                                                                                                                                                                                    |
| CONT                             | OLLOWING SUPPLEMENTS MODIFY THE AIA DOCUMENT A201 - 2007 AIA GENERAL CONDITIONS OF THE RACT FOR CONSTRUCTION WHICH IS MADE A PART OF THESE CONTRACT DOCUMENTS. WHERE AN ARTICLE,                                                                                                                                                                                   |                                                | THE ACTUAL LOCATION OF PERIMETER FOUNDATIONS WITH RESPECT TO PROPERTY LINES. ALSO INCLUDE<br>THE SQUARE FOOTAGE OF THE BUILDING BASED ON THE FOUNDATION. SUBMIT ONE COPY OF SURVEY TO<br>OWNER.                                                                                                                                                                                                                                   |
| FOLLO                            | ION OR SUBSECTION IN THE GENERAL CONDITIONS IS AMENDED, VOIDED OR SUPERSEDED BY THE<br>DWING PARAGRAPHS, THE PROVISIONS OF SUCH ARTICLE, SECTION OR SUBSECTION NOT SO AMENDED,<br>ED OR SUPERSEDED SHALL REMAIN IN EFFECT.                                                                                                                                         | 1.3                                            | CONTRACTOR SHALL COMPARE CONDITIONS AT THE SITE WITH CONTRACT DOCUMENTS. CONTRACTOR<br>SHALL NOTIFY ARCHITECT OR OWNER, IN WRITING, AT OR BEFORE SUBMITTING THEIR BID, OF                                                                                                                                                                                                                                                         |
|                                  | RACTOR SHALL EMPLOY A COMPETENT SUPERINTENDENT AND NECESSARY ASSISTANTS WHO SHALL ATTEND<br>E PROJECT SITE ON A FULL TIME BASIS DURING THE PERFORMANCE OF THE WORK. THE SUPERINTENDENT                                                                                                                                                                             | 1.4                                            | DISCREPANCIES BETWEEN CONTRACT DOCUMENTS AND THE EXISTING CONDITIONS AT THE SITE.<br>MAPS, SOIL INVESTIGATION REPORTS AND SIMILAR REFERENCE DATA MADE AVAILABLE TO CONTRACTOR                                                                                                                                                                                                                                                     |
| SHALL                            | NOT DIVIDE THEIR DUTIES OR RESPONSIBILITIES AMONG OTHER PROJECTS THAT ARE NOT A SPECIFIC ION OF THIS AGREEMENT.                                                                                                                                                                                                                                                    | 1.4                                            | ARE GIVEN FOR CONTRACTOR'S INFORMATION ONLY, AND NEITHER OWNER NOR ARCHITECT ASSUME<br>RESPONSIBILITY FOR CONCLUSIONS CONTRACTOR MAY DRAW.                                                                                                                                                                                                                                                                                        |
|                                  | RACTOR SHALL PROVIDE FOR THE COORDINATION OF THE WORK OF OWNERS FORCES AND OF EACH<br>RATE CONTRACTOR WITH THE WORK OF CONTRACTOR.                                                                                                                                                                                                                                 | 850                                            |                                                                                                                                                                                                                                                                                                                                                                                                                                   |
|                                  | CTIVE WORK NOT REMEDIED, OR FAILURE TO BEGIN REMEDIAL ACTION WITHIN 5 DAYS FOLLOWING WRITTEN<br>ICATION.                                                                                                                                                                                                                                                           |                                                | TION 01 33 00 / SUBMITTALS                                                                                                                                                                                                                                                                                                                                                                                                        |
| REFE                             | R TO SUBMITTAL SCHEDULE AND RESPONSIBILITY MATRIX ON SHEETS G001 AND G006.                                                                                                                                                                                                                                                                                         | 1.1                                            | DELIVER TO OWNER A CONSTRUCTION SCHEDULE, SHOWING THE DATES OF COMMENCEMENT AND COMPLETION OF EACH OF THE VARIOUS SUBDIVISIONS OF THE WORK REQUIRED UNDER THE CONTRACT DOCUMENTS.                                                                                                                                                                                                                                                 |
| 20 A                             | ΓΙΟΝ 01 50 00 / SUMMARY                                                                                                                                                                                                                                                                                                                                            | 1.2                                            | SUBMIT MONTHLY: AN UPDATED PROGRESS REPORT INDICATING WORK COMPLETED DURING THE PRECEDING MONTH AND INDICATE REVISIONS TO THE CONSTRUCTION SCHEDULE.                                                                                                                                                                                                                                                                              |
| 1.1                              | THE WORK INCLUDES WORK INDICATED OR SPECIFIED WITHIN THE CONTRACT LIMIT LINES UNLESS THE<br>WORK IS INDICATED AS NIC (NOT IN CONTRACT.) ALSO INCLUDED IS WORK NECESSARY TO PROVIDE<br>WATER, GAS, SEWER, TELEPHONE, CABLE AND ELECTRICAL SERVICE TO THE SITE, INCLUDING<br>REPLACEMENT OF PAVING TO MEET THE REQUIREMENTS OF GOVERNING MUNICIPAL AUTHORITIES.      | 1.3                                            | SUBMIT A SCHEDULE OF THE ANTICIPATED MONTHLY PAYMENTS THAT WILL BECOME DUE IN ACCORDANCE<br>WITH THE PROGRESS SCHEDULE. ALSO, SUBMIT AN ITEMIZED BREAKDOWN OF THE COSTS OF THE VARIOU<br>SUBDIVISIONS OF THE WORK. THE FIGURES USED IN MAKING THESE SCHEDULES WILL BE USED FOR<br>DETERMINING THE BASIS OF PARTIAL PAYMENTS AND WILL NOT BE CONSIDERED AS FIXING A BASIS FOR                                                      |
| 1.2                              | <ul> <li>PROVIDE COORDINATION FOR UTILITIES INCLUDING APPLICATIONS, NOTICES, MEETINGS, SCHEDULING,</li> <li>FINAL CONNECTIONS, AND OTHER TASKS NECESSARY TO PROVIDE UTILITIES TO THE PROJECT.</li> <li>A. INCLUDE COORDINATION BETWEEN UTILITIES AND TENANTS AS WELL AS OTHERS ON THE PROJECT SITE.</li> </ul>                                                     |                                                | ADDITIONS OR DEDUCTIONS THE CONTRACT PRICE.<br>A. THE PROVISIONS OF THIS SUBPARAGRAPH PROVIDING FOR ADJUSTMENT OF PRICE SHALL NOT<br>APPLY IF CONTRACTOR HAS PROPOSED A SUBCONTRACTOR UNQUALIFIED UNDER APPLICABLE<br>STATE LAW.                                                                                                                                                                                                  |
|                                  | <ul> <li>B. WORK SHALL BE IN ACCORDANCE WITH UTILITY COMPANY REQUIREMENTS.</li> <li>C. SEND PROPER NOTICES, MAKE NECESSARY ARRANGEMENTS AND PERFORM SERVICES REQUIRED IN<br/>THE CARE AND MAINTENANCE OF PUBLIC UTILITIES DURING THE CONSTRUCTION PERIOD AND UNTIL<br/>FINAL ACCEPTANCE OF THE WORK BY OWNER.</li> </ul>                                           | 1.4                                            | 3 APPLICATION FOR PAYMENT SHALL BE MADE ON AIA FORM G-702 AND G-703, APPLICATION AND CERTIFICATE FOR PAYMENT, (4 COPIES) UTILIZING COMPLET E PROVISIONS PROVIDED BY THE FORM. PROVIDE SIGNATURE SPACE FOR OWNERS APPROVAL.                                                                                                                                                                                                        |
| 1.3                              | LIMIT THE STORAGE OF MATERIALS AND EQUIPMENT TO AREAS INDICATED BY OWNER. NO MATERIAL OR<br>EQUIPMENT SHALL BE PLACED AT LOCATIONS THAT WOULD IMPEDE ACCESS TO, OR FROM, EXISTING<br>FACILITIES FOR CUSTOMERS, EMPLOYEES, OR DELIVERIES. COOPERATE WITH OWNER IN PROVIDING<br>TRAFFIC CONTROL DURING THE COURSE OF CONSTRUCTION TO ENSURE MINIMUM INCONVENIENCE TO | 1.5                                            | CONTRACTOR AGREES TO ACCOMPANY PAYMENT REQUESTS, EXCEPT THE FIRST, WITH LIEN WAIVERS<br>PERTAINING TO THE WORK PERFORMED AND MATERIALS PROVIDED BY CONTRACTOR, SUBCONTRACTORS<br>AND MATERIAL SUPPLIER; AND FURTHER AGREE THAT OWNER SHALL HAVE THE RIGHT TO ISSUE CHECKS<br>MADE JOINTLY PAYABLE TO CONTRACTOR AND SUCH SUBCONTRACTOR OR MATERIAL SUPPLIER.                                                                      |
| 1.4                              | OWNER'S CUSTOMERS.<br>IN GENERAL, THE DRAWINGS INDICATE DIMENSIONS, POSITIONS AND DETAILS OF CONSTRUCTION; THE<br>SPECIFICATIONS DESCRIBE QUALITIES OF MATERIAL AND METHODS OF WORKMANSHIP. WORK DESCRIBED<br>IN THE SPECIFICATIONS, SHOWN ON THE DRAWINGS, OR NECESSARY FOR PROPER COMPLETION OF THE                                                              |                                                | A. SUCH SUBCONTRACTOR OR MATERIAL SUPPLIER SHALL AGREE TO GIVE WRITTEN NOTICE TO<br>OWNER OF NONPAYMENT FOR MATERIALS AND SERVICES, WHICH NOTIBE SHALL INCLUDE A<br>SPECIFIC DETAIL LISTING OF THE SERVICES AND MATERIALS WITH RESPEIT TO WHICH PAYMENT<br>HAS NOT BEEN MADE. IF LIENS ARE FILED AGAINST OWNER'S PROPERTY, OWNER MAY, AT THEIR<br>OPTION, REQUIRE GONTRAGTOR TO PROVIDE A BOND IN ACCORDANCE WITH STATE STATUTES. |
|                                  | WORK, SHALL BE EXEMUTED IN A COMPETENT MANNER AND SHALL BE OF THE MATERIALS BEST ADAPTED<br>TO THE PURPOSE WHERE SUCH WORK OR MATERIALS ARE NOT SPECIFICALLY MENTIONED.                                                                                                                                                                                            |                                                | FINAL LIEN WAIVERS SHALL ACCOMPANY THE FINAL PAYMENT REQUEST. LIEN WAIVERS SHALL BE<br>ON AIA DOCUMENT G-Z06A.                                                                                                                                                                                                                                                                                                                    |
| 1.5                              | SHOULD CONFLICTS OCCUR IN OR BETWEEN DRAWINGS AND SPECIFICATIONS, CONTRACTOR IS DEEMED TO HAVE ESTIMATED ON THE MORE EXPENSIVE PRODUCT, METHOD, AND MATERIAL.                                                                                                                                                                                                      | 1.6                                            | CONTRACTOR SHALL REIMBURSE OWNER BY DEDUCTIVE CHANGE ORDER, FOR ARCHITECT'S ADDITIONAL<br>SERVICES MADE NECESSARY BY CONTRACTOR'S FAILURE TO COMPLETE THE WORK WITHIN FIFTEEN DAYS<br>FROM SUBSTANTIAL COMPLETION.                                                                                                                                                                                                                |
| 1.6                              | WORK AND MATERIALS SHALL BE THE BEST OF THE KINDS SPECIFIED AND INDICATED. SHOULD WORK OR<br>MATERIALS BE REQUIRED WHICH ARE NOT DIRECTLY OR INDIRECTLY CALLED FOR IN THE SPECIFICATIONS                                                                                                                                                                           | 1.7                                            | NEITHER THE FINAL PAYMENT NOR THE REMAINING RETAINED PERCENTAGE SHALL BECOME DUE UNTIL                                                                                                                                                                                                                                                                                                                                            |
|                                  | OR SHOWN ON THE DRAWINGS, BUT WHICH ARE NECESSARY FOR PROPER FULFILLMENT OF THE OBVIOUS<br>INTENT, SAID WORK OR MATERIALS SHALL BE THE SAME AS SIMILAR PARTS THAT ARE DETAILED, INDICATED<br>OR SPECIFIED, AND CONTRACTOR SHALL UNDERSTAND THE SAME TO BE IMPLIED AND PROVIDE FOR IT IN                                                                            | 1.8                                            | REQUIREMENTS LISTED IN SECTION 01 77 00 CONTRACT CLOSEOUT ARE COMPLETED.<br>BONDS SHALL BE IN ACCORDANCE WITH STATE LAWS WITH AMOUNT SHOWN EQUAL TO 100% OF THE TOTA                                                                                                                                                                                                                                                              |
| 1.7                              | THEIR PROPOSAL AS FULLY AS IF IT WERE PARTICULARLY DESCRIBED OR DELINEATED.<br>EXECUTE WORK IN ACCORDANCE WITH CONTRACT DOCUMENTS. MAKE NO CHANGES WITHOUT HAVING                                                                                                                                                                                                  |                                                | AMOUNT PAYABLE BY TERMS OF THE CONTRACT. SURELY SHALL BE COMPANY LICENSED TO DO BUSINESS<br>IN THE STATE IN WHICH WORK IS LOCATED AND SHALL BE ACCEPTABLE TO OWNER. BOND AMOUNT SHALL<br>BE INCREASED TO INCLUDE CHANGE ORDER ADDED                                                                                                                                                                                               |
|                                  | FIRST RECEIVED WRITTEN PERMISSION. WHERE DETAILED INFORMATION IS LACKING, BEFORE PROCEEDING WITH WORK, REFER MATTER TO ARCHITECT FOR SUPPLEMENTAL INSTRUCTIONS.                                                                                                                                                                                                    | SHOP                                           | P DRAWINGS, DATA AND SAMPLES                                                                                                                                                                                                                                                                                                                                                                                                      |
| 1.8                              | IF CONTRACTOR OBSERVES ERRORS, DISCREPANCIES OR OMISSIONS IN CONTRACT DOCUMENTS,<br>CONTRACTOR SHALL PROMPTLY NOTIFY ARCHITECT, REQUESTING CLARIFICATION. IF CONTRACTOR<br>PROCEEDS WITH WORK AFFECTED BY SUCH ERRORS, DISCREPANCIES OR OMISSIONS WITHOUT RECEIVING                                                                                                | 2.1                                            | SUBMIT SHOP DRAWINGS, MATERIAL LISTS, MANUFACTURER'S LITERATURE, SAMPLES AND OTHER<br>INFORMATION IN SUFFICIENT TIME TO PERMIT PROPER CONSIDERATION AND ACTION ON SAME BEFORE<br>MATERIALS OR ITEMS ARE ORDERED.                                                                                                                                                                                                                  |
|                                  | SUCH CLARIFICATION, THEY DO SO AT THEIR OWN RISK. ADJUSTMENTS INVOLVING SUCH CIRCUMSTANCES<br>MADE BY CONTRACTOR, PRIOR TO APPROVAL BY ARCHITECT, SHALL BE AT CONTRACTOR'S RISK AND THE<br>SETTLEMENT OF COMPLICATIONS OR DISPUTES SHALL BE AT CONTRACTOR'S SOLE EXPENSE.                                                                                          | 2.2                                            | FURNISH TO ARCHITECT FOR REVIEW, 1 DIGITAL SET OF EACH SHOP DRAWING AND SCHEDULES FOR PART<br>OF THE WORK AS SPECIFIED. ARCHITECT WILL CHECK FOR CONFORMANCE WITH CONTRACT DOCUMENTS                                                                                                                                                                                                                                              |
| 1.9                              | NEITHER OWNER NOR ARCHITECT ASSUME RESPONSIBILITY FOR AN UNDERSTANDING OR<br>REPRESENTATION MADE BY THEIR AGENTS OR REPRESENTATIVES PRIOR TO THE EXECUTION OF THE                                                                                                                                                                                                  | 1990 - San | DO NOT EXECUTE WORK UNTIL CONFIRMATION OF REVIEW IS OBTAINED. AFTER THE SUBMITTAL HAS BEEN<br>REVIEWED IT IS CONTRACTOR'S RESPONSIBILITY TO RETRIEVE THE SHOP DRAWINGS FROM ARCHITECT.                                                                                                                                                                                                                                            |
|                                  | AGREEMENT UNLESS SUCH UNDERSTANDINGS OR REPRESENTATIONS ARE EXPRESSLY STATED IN THE<br>AGREEMENT, AND THE AGREEMENT EXPRESSLY PROVIDES THAT RESPONSIBILITY IS ASSUMED BY OWNER.                                                                                                                                                                                    | 2.3                                            | BEFORE SUBMITTING SHOP DRAWINGS FOR REVIEW, CHECK SHOP DRAWINGS FOR ACCURACY, ASCERTAIL THAT WORK CONTIGUOUS WITH AND HAVING BEARING ON OTHER WORK SHOWN ON SHOP DRAWINGS IS                                                                                                                                                                                                                                                      |

AGREEMENT, AND THE AGREEMENT EXPRESSLY PROVIDES THAT RESPONSIBILITY IS ASSUMED BY OWNER. 1.10 FAILURE OF CONTRACTOR TO ACQUAINT THEMSELVES WITH AVAILABLE INFORMATION CONCERNING THE

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2.3 BEFORE SUBMITTING SHOP DRAWINGS FOR REVIEW, CHECK SHOP DRAWINGS FOR ACCURACY, ASCERTAIN THAT WORK CONTIGUOUS WITH AND HAVING BEARING ON OTHER WORK SHOWN ON SHOP DRAWINGS IS ACCURATELY DRAWN, AND THAT WORK SHOWN IS IN CONFORMITY WITH CONTRACT REQUIREMENTS. SHOP DRAWINGS, WHEN SUBMITTED, MUST BEAR A STAMP OF APPROVAL FROM CONTRACTOR. DRAWINGS

SUBMITTED WITHOUT SUCH EXECUTED STAMP OF APPROVAL, OR WHENEVER IT IS EVIDENT THAT THE DRAWINGS HAVE NOT BEEN CHECKED, WILL BE RETURNED FOR RESUBMISSION.

- 2.4 PREPARE COMPOSITE DRAWINGS AND INSTALLATION LAYOUTS, WHEN REQUIRED TO SOLVE TIGHT FIELD CONDITIONS. SUCH DRAWINGS SHALL CONSIST OF DIMENSIONED PLANS AND ELEVATIONS AND MUST GIVE INFORMATION PARTICULARLY AS TO SIZE AND LOCATION OF SLEEVES, INSERTS, ATTACHMENTS, OPENINGS, CONDUITS, DUCTS OR STRUCTURAL INTERFERENCES.
- 2.5 WHEN PRODUCT DATA, CONSISTING OF MANUFACTURER'S PRINTED LITERATURE IS REQUIRED TO BE SUBMITTED TO ARCHITECT, IT SHALL BE SUBMITTED IN ORIGINAL FORM, IN DIGITAL (PDF, DWF, ETC) SUBMISSION OR A MINIMUM OF 3 EACH IS REQUIRED; 2 FOR ARCHITECT AND ONE TO BE RETURNED TO CONTRACTOR.

## EQUIPMENT LISTS

- SUBMIT 3 COPIES OF A COMPLETE LIST OF MAJOR ITEMS OF MECHANICAL, PLUMBING AND ELECTRICAL 3.1 EQUIPMENT AND MATERIALS WITHIN 30 DAYS AFTER AWARD OF CONTRACT.
- SUBMITTALS SHALL INCLUDE THE MANUFACTURER'S SPECIFICATIONS, PHYSICAL DIMENSIONS AND 3.2 RATINGS OF EQUIPMENT. FURNISH PERFORMANCE CURVES FOR PUMPS AND FANS. WHERE SUBMITTAL SHEET DESCRIBES ITEMS IN ADDITION TO THAT ITEM BEING SUBMITTED, THE SUBMITTED ITEM SHALL BE CLEARLY MARKED ON THE SHEET AND SUPERFLUOUS INFORMATION SHALL BE CROSSED OUT.
- EQUIPMENT SUBMITTALS SHALL BE COMPLETE INCLUDING SPACE REQUIREMENTS, WEIGHT, ELECTRICAL 3.3 AND MECHANICAL REQUIREMENTS, PERFORMANCE DATA AND SUPPLEMENTAL INFORMATION REQUESTED BY ARCHITECT

## SECTION 01 43 00 / TESTING AND SPECIAL INSPECTION

- 1.1 THE RESPECTIVE SECTIONS OF THESE SPECIFICATIONS CONTAIN REQUIREMENTS FOR MATERIALS TESTING AND INSPECTIONS. COSTS INCURRED FOR INSPECTION, SPECIAL INSPECTION AND TESTING LABORATORY SERVICES SHALL BE PAID FOR BY CONTRACTOR. SPECIAL INSPECTION SHALL BE PERFORMED BY A LICENSED STRUCTURAL ENGINEER.
- PROVIDE THE SERVICES OF A TESTING LABORATORY APPROVED BY ARCHITECT. TESTING LABORATORY 1.2 SHALL REPORT THE RESULTS OF TESTS, IN WRITING, SIMULTANEOUSLY TO THE FOLLOWING: ARCHITECT 1 COPY, STRUCTURAL ENGINEER 1 COPY, CONTRACTOR 2 COPIES.

## SECTION 01 50 00 / CONSTRUCTION FACILITIES

- 1.1 UTILITIES: PROVIDE TEMPORARY ADEQUATE LIGHT AND POWER AND WATER SUPPLY FOR CONSTRUCTION, MAKING NECESSARY ARRANGEMENTS WITH SERVING UTILITY. RECEIPTS STATING THAT CHARGES HAVE BEEN PAID SHALL ACCOMPANY APPLICATION FOR FINAL PAYMENT.
- FIRE PROTECTION: PROVIDE ADEQUATE FIRE EXTINGUISHERS, OF THE TYPE AND SIZES RECOMMENDED BY THE NFPA, ON THE PREMISES DURING THE COURSE OF CONSTRUCTION. IN THE USE OF HAZARDOUS TYPES OF EQUIPMENT, NO WORK SHALL BE COMMENCED OR EQUIPMENT USED UNLESS FIRE EXTINGUISHERS OF AN APPROVED TYPE AND CAPACITY ARE PLACED IN THE WORK AREA.
- 1.3 TEMPORARY ENCLOSURES, BARRIERS, AND FENCES: PROVIDE AND MAINTAIN FENCES, BARRICADES, LIGHTS, SHORING AND OTHER PROTECTIVE STRUCTURES OR DEVICES NECESSARY FOR THE SAFETY OF WORKERS, EQUIPMENT, THE PUBLIC AND PROPERTY. ABIDE BY STATE OR MUNICIPAL LAWS AND REGULATIONS, AND LOCAL ORDINANCES, LAWS AND OTHER REOUIREMENTS OF THE COUNTY AND OTHER AUTHORITIES HAVING JURISDICTION WITH REGARD TO SAFETY PRECAUTIONS, OPERATION AND FIRE HAZARDS.
- SECURITY: ARCHITECT AND OWNER DO NOT ASSUME RESPONSIBILITY FOR THE PROTECTION OF THE 1.4 BUILDING AND PREMISES OR FOR LOSS OF MATERIALS, FROM THE TIME THAT THE CONTRACT OPERATIONS HAVE COMMENCED UNTIL THE FINAL ACCEPTANCE OF THE WORK BY OWNER. IF WATCHMAN SERVICE IS DEEMED NECESSARY BY CONTRACTOR, SUCH PROTECTION SHALL BE PROVIDED BY CONTRACTOR.
- 1.5 FACILITY AND EQUIPMENT: PROVIDE, INSTALL, MAINTAIN AND OPERATE A COMPLETE AND ADEQUATE FACILITY FOR THE HANDLING, EXECUTION, DISPOSAL AND DISTRIBUTION OF MATERIAL AND EQUIPMENT REQUIRED FOR THE PROPER AND TIMELY PERFORMANCE OF WORK CONNECTED WITH THE CONTRACT.
- 1.6 TOILET FACILITIES: PROVIDE PROPER SANITARY AND ADEQUATE TOILET FACILITIES, LOCATED WHERE DIRECTED, FOR THE USE OF WORKERS ON THE PROJECT AND ENFORCE THEIR USE BY PERSONNEL ON THE PROJECT.
- 1.7 HEATING: SHOULD IT BECOME NECESSARY TO DO WORK IN THE BUILDING, SUCH AS PLASTERING, CEMENT WORK OR PAINTING, AT TIMES WHEN THE TEMPERATURE IS BELOW 40 DEGREES F CONTRACTOR SHALL PROVIDE TEMPORARY HEAT FOR SUCH LENGTH OF TIME AS NECESSARY FOR THE PROTECTION OF THE
- SCAFFOLD: THE WORK SHALL INCLUDE PROVIDING, INSTALLING AND MAINTAINING SCAFFOLD NECESSARY 1.8 FOR THE WORK IN CONFORMITY WITH APPLICABLE LAWS AND ORDINANCES.
- 1.9 PROJECT IDENTIFICATION: FURNISH AND ERECT A PROJECT SIGN GIVING THE NAME OF THE PROJECT. OWNER, ARCHITECTS, ENGINEERS, AND CONTRACTOR. SIGN SHALL MEET LOCAL ORDINANCE REQUIREMENTS
- 1.10 VISIT THE SITE AND REVIEW THE NATURE OF WORK UNDER THIS SECTION PRIOR TO SUBMITTING THE BID. NOTIFY ARCHITECT OF DISCREPANCIES BEFORE PROCEEDING WITH THE WORK.
- 1.11 MATERIALS LISTED FOR REUSE OR SALVAGE, WHICH IS DAMAGED TO THE EXTENT THAT THEY CANNOT BE REUSED, SHALL BE REPLACED BY CONTRACTOR WITH EQUAL QUALITY MATERIAL. COORDINATE WITH OWNER ON DISPOSITION OF SALVAGE ITEMS.
- REBUILD EXISTING WORK THAT HAS TO BE REMOVED TO ALLOW FOR THE INSTALLATION OF NEW WORK. REPAIR DAMAGE TO THE ROOF, OTHER SURFACES, AND ITEMS.
- 1.13 THE INSURANCE REQUIRED BY SUBSECTION 11.1.1 SHALL BE WRITTEN FOR NOT LESS THAN THE FOLLOWING, OR GREATER IF REQUIRED BY LAW: WORKER'S COMPENSATION INSURANCE:
  - i. STATE, TO BE STATUTORY, APPLICABLE FEDERAL, TO BE STATUTORY, EMPLOYER'S LIABILITY \$100,000 COMPREHENSIVE GENERAL LIABILITY INSURANCE (INCLUDING PREMISES-OPERATION;
    - INDEPENDENT CONTRACTOR'S PROTECTION; PRODUCTS AND COMPLETED OPERATIONS): BODILY INJURY: \$1,000,000 EACH OCCURRENCE, \$2,000,000 ANNUAL AGGREGATE PROPERTY DAMAGE: \$1,000.000 EACH OCCURRENCE, \$2,000.000 ANNUAL AGGREGATE PRODUCTS AND COMPLETED OPERATIONS INSURANCE TO BE MAINTAINED INSURED FOR
    - ONE YEAR AFTER FINAL PAYMENT. PROPERTY DAMAGE LIABILITY INSURANCE WILL PROVIDE U GOVERAGE CONTRACTUAL LIABILITY INSURANGE:
  - BODILY INJURY: \$1,000,000 EACH OCCURRENCE PROPERTY DAMAGE: \$1,000,000 EACH OCCURRENCE, \$2,000,000 ANNUAL AGGREGATE D.
  - PERSONAL INJURY INSURANCE, WITH EMPLOYMENT EXCLUSION DELETED: \$2,000,000 ANNUAL AGGREGATE
  - COMPREHENSIVE AUTOMOBILE LIABILITY INSURANCE:
  - BODILY INJURY: \$1,000,000 EACH PERSON, \$2,000,000 EACH OCGURRENCE PROPERTY DAMAGE: \$1,000,000 EACH OCCURRENCE F. CONTRACTOR SHALL PROVIDE THE LIMITS OF LIABILITY BY A COMBINATION OF THE ABOVE-DESCRIBED POLICY FORMS AND AN UMBRELLA EXCESS LIABILITY POLICY.
  - CONTRACTOR'S EXCESS LIABILITY, UMBRELLA FORM, BODILY INJURY AND PROPERTY DAMAGE COMBINED: ii. \$2,000,000 EACH OCCURRENCE, \$10,000,000 AGGREGATE

## **BUILDING DEMOLITION**

- 2.1 CONTRACTOR SHALL, BEFORE COMMENCING WORK, VERIFY GRADES, LINES, LEVELS AND DIMENSIONS SHOWN ON THE DRAWINGS AND SHALL REPORT ERRORS OR INCONSISTENCIES TO ARCHITECT. CONTRACTOR SHALL NOT PROCEED UNTIL SUCH ERRORS OR INCONSISTENCIES ARE CORRECTED
- CONTRACTOR SHALL ESTABLISH AND MAINTAIN BUILDINGS AND CONSTRUCTION GRADES, LINES, LEVELS 2.2 AND BENCHMARKS AND SHALL BE RESPONSIBLE FOR THEIR ACCURACY AND PROTECTION. THIS WORK SHALL BE PERFORMED BY A LICENSED SURVEYOR. CONTRACTOR SHALL PROTECT TEMPORARY BENCHMARKS AND MAINTAIN THEM IN PLACE FOR THE
  - A. DURATION OF THE CONTRACT OR UNTIL SUCH TIME AS THEIR REMOVAL DOES NOT AFFECT COMPLETION OF THE PROJECT. CONTRACTOR SHALL NOT REMOVE PROPERTY LINE MARKERS OR MONUMENTS OR DATA
  - ESTABLISHED BY OWNER. IF SUCH ARE DAMAGED OR REMOVED CONTRACTOR SHALL BEAR COST OF REPLACEMENT.
- 2.3 CONTRACTOR SHALL BE RESPONSIBLE FOR EXISTING STRUCTURE AND IMPROVEMENTS, BOTH ABOVEGROUND AND UNDERGROUND, INCLUDING THE FINISHES WITHIN THE ADJOINING WORKING AREAS, AND SHALL PROVIDE ADEQUATE PROTECTION, EITHER BY BARRICADES, COVERING OR TEMPORARY REMOVAL. EXISTING STRUCTURES OR IMPROVEMENTS DAMAGED DURING CONSTRUCTION SHALL BE REPAIRED AND REPLACED WITH MATERIALS, WORKMANSHIP, FIXTURES OR EQUIPMENT OF THE SAME

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QUALITY AND SIZE AS REQUIRED BY CONTRACT DOCUMENTS.

- 2.4 DEBRIS FROM THE DEMOLITION SHALL NOT BE ALLOWED TO ACCUMULATE WITHIN THE BUILDING OR ON THE SITE. UNLESS LISTED FOR REUSE OR SALVAGE, DEMOLISHED MATERIALS SHALL BECOME THE PROPERTY OF CONTRACTOR, AND SHALL BE REMOVED FROM THE SITE. SPRINKLE DEBRIS, AND USE TEMPORARY ENCLOSURES, AS NECESSARY, TO LIMIT DUST. DO NOT USE WATER TO THE EXTENT OF CAUSING FLOODING, CONTAMINATION OR RUNOFF.
- 2.5 BREAK CONCRETE AND MASONRY INTO SECTIONS LESS THAN 3 FEET IN DIMENSION. LOWER STRUCTURA FRAMING MEMBERS TO GROUND BY HOIST OR CRANE.
- 2.6 REMOVE FLOORS OVER BASEMENT CONSTRUCTION AND REMOVE ON GRADE SLABS. REMOVE EXTERIOR BASEMENT WALLS AND FOOTINGS IN TOTAL. REMOVE BELOW GRADE WOOD AND METAL FROM BUILDING DEMOLITION AREA.
- 2.7 PERFORM THE REMOVAL, CUTTING AND DRILLING OF EXISTING WORK WITH CARE, AND USING SMALL TOOLS IN ORDER NOT TO JEOPARDIZE THE STRUCTURAL INTEGRITY OF THE BUILDING. STORE EXISTING CONSTRUCTION WHEN EXISTING SUPPORTS ARE REMOVED, TO ALLOW FOR THE INSTALLATION OF NEW WORK. PERFORM CUTTING OF EXISTING GONCRETE AND MASONRY WITH SAWS AND CORE DRILLS; DO NOT USE JACKHAMMERS.
- 2.8 CONTRACTOR SHALL BE LIABLE FOR DAMAGE CAUSED BY CONTRACTOR TO OWNER'S PREMISES. CONTRACTOR SHALL HOLD AND SAVE OWNER AND THEIR AGENTS, FREE AND HARMLESS FROM LIABILITY OF ANY KIND ARISING FROM THE USE, TRESPASS OR DAMAGE OCCASIONED BY THEIR OPERATIONS ON PREMISES OR THIRD PERSONS.

# PROTECTION OF EXISTING ROOFING

- 3.1 PROVIDE PROTECTION FROM WEATHER WHERE OPENINGS IN EXISTING ROOF ARE CUT FOR NEW WORK, OR WHERE EXISTING ROOFING IS REMOVED TO ALLOW NEW CONSTRUCTION TO JOIN EXISTING.
- PROVIDE WORKING DECK OF EXTERIOR GRADE PLYWOOD AND WOOD SKIDS, OR OTHER APPROVED 3.2 MATERIAL, OVER EXISTING ROOFING WHEN ADJOINING NEW WORK.

# SECTION OF 01 74 00 / CONSTRUCTION WASTE

- 1.1 CONDUCT CLEANUP AND DISPOSAL OPERATIONS TO COMPLY WITH LOCAL ORDINANCES AND ANTIPOLLUTION LAWS. ONLY USE CLEANING MATERIALS RECOMMENDED BY THE MANUFACTURER FOR THE SURFACE TO BE CLEANED.
- 1.2 DURING THE CONSTRUCTION PERIOD, THE MATERIALS TO BE USED IN THE WORK SHALL BE KEPT IN AN ORDERLY MANNER, NEATLY STACKED OR PILED. CLEAN UP FREQUENTLY (AT LEAST WEEKLY) SCRAP MATERIALS, AND DEBRIS CAUSED BY OPERATIONS, TO THE END. THE SITE OF THE WORK SHALL PRESENT A CLEAN AND ORDERLY APPEARANCE AT ALL TIMES.
- 1.3 PROVIDE FOR THE DISPOSAL OF SCRAP MATERIALS, AND DEBRIS; MAKE NECESSARY ARRANGEMENTS FOR LEGAL DISPOSAL OF SAME OFF THE SITE. PROVIDE TRASH CONTAINERS FOR USE BY TRADES.

# SECTION 01 77 00 / CONTRACT CLOSEOUT

# RECORD DRAWINGS

- PROVIDE RECORD DRAWINGS WHICH SHALL CLEARLY SHOW DIFFERENCES BETWEEN THE CONTRACT 1.1 WORK AS DRAWN AND INSTALLED, AS WELL AS WORK ADDED TO THE CONTRACT WHICH IS NOT SHOWN ON THE CONTRACT DRAWINGS. MAINTAIN A SET OF RECORD DRAWINGS AT THE JOB SITE. THESE SHALL BE KEPT CURRENT AND SHALL BE AVAILABLE FOR INSPECTION.
- 1.2 IN SHOWING CHANGES IN THE WORK, USE THE SAME LEGENDS AS WERE USED ON THE CONTRACT DRAWINGS. INDICATE EXACT LOCATIONS BY DIMENSIONS AND EXACT ELEVATIONS GIVEN IN JOB DATUM, BY DEPTH. GIVE DIMENSIONS FROM A PERMANENT POINT. GIVE ELEVATIONS TO SEWER AND STORM DRAINAGE LINES TO THE INVERT ELEVATION.
- MECHANICAL AND ELECTRICAL RECORD DRAWINGS SHALL INDICATE ROUTING OF PIPING, DUCT WORK, 1.3 POWER, CONTROL WIRING, LOCATION, AND FUNCTION OF CONTROLS AND WHETHER MANUAL OR AUTOMATIC AND NORMAL AMPERAGE READINGS FOR MOTORS TAKEN AT THE EQUIPMENT UNDER NORMAL LOAD CONDITIONS
- 1.4 RECORD DRAWINGS PACKAGE SHALL INCLUDE ONE SET OF FINAL TRUSS SHOP DRAWINGS AND STRUCTURAL CALCULATIONS. RECORD DRAWINGS SHALL CONTAIN THE NAMES, ADDRESSES AND PHONE NUMBER OF THE SUBCONTRACTORS.
- UPON SUBSTANTIAL COMPLETION OF THE WORK, SUBMIT ONE SET OF RECORD DRAWINGS AND OTHER 1.5 CLOSE-OUT DOCUMENTS TO ARCHITECT FOR REVIEW. UPON RECEIPT OF NOTICE OF COMPLETION OF REVIEW OF THE RECORD DRAWINGS AND DOCUMENTS DELIVER 3 SETS OF RECORD DOCUMENTS TO OWNER.

# WARRANTY, MAINTENANCE MANUAL AND OPERATING INSTRUCTIONS

- UPON COMPLETION OF THE INSTALLATION OF WORK, FURNISH ONE BOUND COPY OF WARRANTIES, 2.1 OPERATING AND MAINTENANCE INSTRUCTIONS AND SPARE PARTS LISTS FOR MATERIALS AND EQUIPMENT, INCLUDING ELECTRICAL AND CONTROL ITEMS.
- 2.2 OPERATING INSTRUCTIONS SHALL INCLUDE COMPLETE OPERATING SEQUENCE, CONTROL DIAGRAMS, DESCRIPTION OF METHOD OF OPERATING MACHINERY, MACHINE SERIAL NUMBERS, FACTORY ORDER NUMBERS, PARTS LISTS, INSTRUCTION BOOKS, SUPPLIER'S PHONE NUMBERS AND ADDRESSES AND INDIVIDUAL EQUIPMENT GUARANTEES. PARTS LISTS SHALL BE COMPLETE, SHOWING PARTS AND PART NUMBERS FOR READY REFERENCE.
- 2.3 ASSEMBLE WARRANTY, MAINTENANCE MANUAL AND OPERATING INSTRUCTIONS IN 3-RING BINDERS, LABEL AND INDEX MATERIAL CONTAINED FOR READY REFERENCE, USING THE SECTION NUMBERS LISTED IN THE PROJECT MANUAL. UPON SUBSTANTIAL COMPLETION OF THE WORK, SUBMIT ONE COPY OF THE WARRANTY, MAINTENANCE MANUAL AND OPERATING INSTRUCTIONS TO ARCHITECT.
- 2.4 SUBMIT REQUIRED GUARANTEES IN WRITING. GUARANTEE PERIODS SHALL BE IN ACCORDANCE WITH THE GENERAL CONDITIONS. IN ADDITION, PROVIDE WRITTEN GUARANTEES OR CERTIFICATES REQUIRED AS SPECIFIED IN THIS SECTION AND THE PROJECT MANUAL

SECTION 03 30 00 / CAST IN PLACE CONCRETE (REFER TO STRUCTURAL SET)

# SECTION 04 21 50 / ADHERED THIN BRICK VENEER UNITES

# PART 1 – GENERAL

# QUALITY ASSURANCE

- 1.1 CONTINUOUS INSPECTION: EMPLOY A QUALIFIED MASONRY INSPECTOR FOR CONTINUOUS INSPECTION OF THE MASONRY WORK. ACCEPTANCE BY A STATE OR MUNICIPALITY HAVING A PROGRAM OF EXAMINING AND CERTIFYING MASONRY INSPECTORS WILL BE CONSIDERED ADEQUATE QUALIFICATIONS. THE MASONRY INSPECTOR SHALL BE AT THE SITE DURING ALL MASONRY CONSTRUCTION AND PERFORM THE FOLLOWING DUTIES:
  - REVIEW DRAWINGS AND SPECIFICATIONS AND MEET WITH THE CONTRACTOR TO DISCUSS REQUIREMENTS BEFORE WORK COMMENCES.
  - BEFORE MASONRY WORK COMMENCES, CONTRACTOR AND THE CONTRACTOR'S QUALITY CONTROL REPRESENTATIVE SHALL ATTEND MEETING WITH ENGINEER TO REVIEW THE
  - REQUIREMENTS FOR SURVEILLANCE AND QUALITY CONTROL OF THE MASONRY WORK.
  - CHECK BRAND AND TYPE OF CEMENT, LIME (IF USED), AND SOURCE OF SAND. ENSURE THAT THE BACKING IS CONTINUOUS, ROUGH, AND MOISTURE RESISTANT TO
  - RECEIVE UNITS. OBSERVE FIELD PROPORTIONING OF MORTAR. VISUALLY CHECK AGGREGATE TO
  - DETERMINE UNIFORMITY OF GRADING, CLEANLINESS, AND MOISTURE.
  - ENSURE THAT JOINTS ARE FULL OF MORTAR AND KEPT TIGHT DURING WORK. CONTINUOUSLY OBSERVE PLACING OF GROUT. G
  - PERFORM OR SUPERVISE PERFORMANCE OF REQUIRED SAMPLING AND TESTING.
- 1.2 KEEP COMPLETE RECORD OF INSPECTIONS. REPORT DAILY TO THE CONTRACTOR'S QUALITY CONTROL REPRESENTATIVE THE PROGRESS OF THE MASONRY INSPECTION.
- 1.3 MOCK-UF
  - PRIOR TO STARTING CONSTRUCTION OF MASONRY, CONSTRUCT MINIMUM 4 FOOT SQUARE MOCK-
  - USE ACCEPTED MATERIALS, CONTAINING EACH DIFFERENT KIND AND COLOR OF BRICK MASONRY UNITS TO ILLUSTRATE WALL DESIGN.
  - SHOW COLOR RANGE, TEXTURE RANGE, BOND, MORTAR COLOR, JOINT TOOLING, CRITICAL DESIGN



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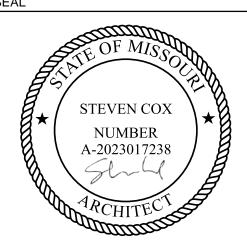
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**513 MAIN STREET** #300 FORT WORTH TX 76102



PERMIT SET: 04/12/2024

CONTRACTOR SHALL VERIFY ALL CONDITIONS AND DIMENSIONS AT THE JOB SITE AND NOTIFY THE ARCHITECT OF ANY DIMENSIONAL ERRORS. OMISSIONS OR DISCREPANCIES BEFORE BEGINNING OR FABRICATING ANY WORK. DO NOT SCALE DRAWINGS. ISSUE DATE DESCRIPTION

| PRC | JECT INF          | ORMATION |  |  |  |
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| PRO | PROJECT NO: 24-00 |          |  |  |  |
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| PROJECT NO:     | 24-0087    |
|-----------------|------------|
| ORIGINAL ISSUE: | 06/01/2023 |
| SCALE:          | AS NOTED   |
| DRAWN BY:       | P. C       |
| CHECKED BY:     | J. JEFFERY |

SHEET TITLE

# SPECIFICATIONS

|                                                                                                                | DETAILS AND QUALITY OF WORKMANSHIP.<br>D. MASONRY CONSTRUCTION MAY NOT PROCEED UNTIL THE ARCHITECT./ ENGINEER APPROVES                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                                                                              | C. FOR CONCRETE OR CMU: CO<br>PENETRATION INTO SOUND SUBSTR                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
|----------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                                                                                                | MOCK-UP.<br>E. WHEN NOT ACCEPTED, CONSTRUCT ANOTHER MOCK-UP.<br>F. WHEN ACCEPTED, MOCK-UP WILL REMAIN INTACT DURING CONSTRUCTION, WILL BE THE STANDARD                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                                                                              | (WITH 1" MINIMUM PENETRATION IN<br>i. FOLLOW FASTENER<br>D. FASTENERS INTENDED TO S                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
|                                                                                                                | <ul> <li>WHEN ACCEPTED, MOCK-OF WILL REMAIN INTACT DURING CONSTRUCTION, WILL BE THE STANDARD</li> <li>OF COMPARISON FOR THE REMAINDER OF MASONRY WORK.</li> <li>G. UPON COMPLETION AND ACCEPTANCE OF PROJECT, DISPOSE OF MOCK-UPS IN LEGAL MANNER AT</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 2.15                                                                                                                                         | CORROSION RESISTANT WA                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
|                                                                                                                | OFFSITE LOCATION.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 2.15                                                                                                                                         | PROPRIETARY LATH SYSTEMS - FOI                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| .4                                                                                                             | CERTIFICATION: FURNISH MANUFACTURER'S CERTIFICATION THAT CLAY THIN BRICK UNITS PROVIDED MEET<br>OR EXCEED THE REQUIREMENTS OF THIS SPECIFICATION.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                              | A. PUNCHED GALVANIZED SHE<br>B. THERMOSET REINFORCED F                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| DELIV                                                                                                          | ERY, STORAGE, AND HANDLING                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                                                                                                              | i. MORTAR SET<br>ii. PEEL N' STICK                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| .5                                                                                                             | STORE MASONRY UNITS ABOVE GROUND TO PREVENT CONTAMINATION BY MUD, DUST OR OTHER                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                                              | C. PROFILED EXPANDED RIGID<br>D. FIBERGLASS WOVEN LATH                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| .6                                                                                                             | MATERIALS LIKELY TO CAUSE STAINING OR OTHER DEFECTS.<br>COVER AND PROTECT MASONRY UNITS FROM INCLEMENT WEATHER TO MAINTAIN QUALITY CONTROL AND                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                                                                              | E. FIBERGLASS WOVEN LATH                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| .7                                                                                                             | PHYSICAL REQUIREMENTS.<br>TRANSPORT AND HANDLE BRICK MASONRY UNITS AS REQUIRED TO PREVENT DISCOLORATION, CHIPPING,                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                                                                                              | i. DELTA-DRY AND LA<br>CONSTRUCTION]                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| .8                                                                                                             | AND BREAKAGE.<br>LOCATE STORAGE PILES, STACKS, AND BINS TO PROTECT MATERIALS FROM HEAVY TRAFFIC.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 2.17                                                                                                                                         | PROPRIETARY MVIS SYSTEMS: EXTE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| 1.9                                                                                                            | REMOVE CHIPPED, CRACKED, AND OTHERWISE DEFECTIVE UNITS FROM JOBSITE UPON DISCOVERY.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                                                                                                              | EXTERIOR SUBSTRATE SURFACES T<br>ELASTOMERIC WRB MEMBRANE, CE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| .10                                                                                                            | COLD WEATHER REQUIREMENTS:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                                                                                                              | POINTING MORTAR (GROUT) SYSTEI<br>VENEERS, INCLUDING THIN BRICK. M<br>DRAINAGE LAYER.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| 1.10                                                                                                           | <ul> <li>A. IN ACCORDANCE IBC SECTION 2104.3.</li> <li>B. PROVIDE ADEQUATE EQUIPMENT FOR HEATING MASONRY MATERIALS WHEN AIR TEMPERATURE IS</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                                                                              | A. LATICRETE MVIS OR EQUIVA<br>i. 3-PART SYSTEM: FL                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
|                                                                                                                | BELOW 40 DEGREES FAHRENHEIT (4 DEGREES CELSIUS).                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                                                                                              | ii. 4-PART SYSTEM: FL                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| .11                                                                                                            | HOT WEATHER REQUIREMENTS:<br>A. IN ACCORDANCE WITH IBC SECTION 2104.4.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                                                                              | POINTING MORTAR.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
|                                                                                                                | B. WHEN AMBIENT AIR TEMPERATURE EXCEEDS 100 DEGREES FAHRENHEIT (38 DEGREES CELSIUS),<br>OR WHEN AMBIENT AIR TEMPERATURE EXCEEDS 90 DEGREES FAHRENHEIT (32 DEGREES                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | CEME                                                                                                                                         | NT BACKER (CB) OR CEMENT BACKER                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
|                                                                                                                | CELSIUS)AND WIND VELOCITY IS GREATER THAN 8 MILES PER HOUR, IMPLEMENT HOT WEATHER<br>PROTECTION PROCEDURES.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 2.18                                                                                                                                         | SPECIALTY CEMENT BACKER BOARI<br>MINERAL WOOL OF VARIOUS THICKI                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
|                                                                                                                | C. WET MORTAR BOARD BEFORE LOADING AND COVER MORTAR TO RETARD DRYING WHEN NOT<br>BEING USED.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                                                                                                              | PROVIDE EXTERIOR INSULATION.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
|                                                                                                                | D. DO NOT SPREAD MORTAR BEDS MORE THAN 48 INCHES (1.22 M) AHEAD OF PLACING MASONRY<br>UNITS.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | PART                                                                                                                                         | 3 – EXECUTION                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
|                                                                                                                | E. PLACE MASONRY UNITS WITHIN ONE MINUTE OF SPREADING MORTAR.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 10                                                                                                                                           | ER SUBSTRATE SURVEY                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| .12                                                                                                            | WETTING OF BRICK: SHALL BE REQUIRED AT THE TIME OF LAYING IF THE UNIT'S INITIAL RATE OF<br>ABSORPTION (IRA) EXCEEDS 30 GRAMS PER 30 SQUARE INCHES PER MINUTE OR 1 G/ 645MM2.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 3.1                                                                                                                                          | SURVEY CONDITION OF SUBSTRATE<br>CONFORMANCE ISSUES, INCLUDING                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| ART                                                                                                            | 2 – PRODUCTS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                                                                                                              | ALIGNMENT, AND LOCATION. REPOR                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| ۰.                                                                                                             | TYPE: ASTM C 1088, GRADE EXTERIOR, TYPE TBS OR TBX THIN VENEER BRICK.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | VENE                                                                                                                                         | ER SUBSTRATE PREPARATION                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
|                                                                                                                | SURFACE TEXTURE: TO BE SELECTED BY ARCHITECT/ENGINEER FROM MANUFACTURER'S FULL RANGE OF                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 3.1                                                                                                                                          | CONCRETE, CMU, CEMENT BACKER                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
|                                                                                                                | AVAILABLE TEXTURES.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                                                                                                              | A. REMOVE ALL DELETERIOUS<br>ETC.)<br>B. WASH SURFACE TO REMOV                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| ).<br>)                                                                                                        | COLORS: COLOR AS SELECTED BY ARCHITECT/ENGINEER FROM STANDARD COLORS.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                                                                              | C. CLEANING MAY BE WAIVED/<br>AND WHEN PROPRIETARY L                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| ).<br>                                                                                                         | SIZE: 9/16 IN. THICK X 2 ¼ IN. HIGH X 8 IN. LONG, UNLESS OTHERWISE INDICATED ON THE DRAWINGS.<br>SPECIAL SIZES AND SHAPES: AS REQUIRED FOR WINDOW AND DOOR LOCATIONS AND CUSTOM SILLS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                                                                              | LATH SYSTEM MANUFACTU                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| •                                                                                                              | WHERE INDICATED, CORNERS, AND OTHER SPECIAL APPLICATIONS TO MINIMIZE CUTTING.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 3.2                                                                                                                                          | WOOD SHEATHING.<br>A. PREPARE TO RECEIVE VEN                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| OND                                                                                                            | COAT MORTAR                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                                                                                              | AND FIXING FASTENERS TH.<br>SHEATHING.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| .1                                                                                                             | SITE MIXED MORTAR: MEET REQUIREMENTS OF ANSI A118.4 OR A118.15.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                                              | B. REMOVE ALL DELETERIOUS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| .2                                                                                                             | PREBLENDED: MEET REQUIREMENTS OF ANSI A118.4 OR A118.15.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 3.3                                                                                                                                          | PREPARE SUBSTRATE SURFACE TO<br>SUITABLE AND APPROVED MEANS A                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| .3                                                                                                             | MORTAR FOR USE WITH CEMENT BACKER BOARD SUBSTRATE: COMPLY WITH ANSI A118.4 OR<br>A118.15                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                                                                                              | THE THIN BRICK INSTALLATION. SUE<br>APPROVAL PRIOR TO INITIATING AN                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| ΟΙΝΤ                                                                                                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | CONF                                                                                                                                         | IRMATION OF MASONRY LAYOUT                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| .4                                                                                                             | MORTAR USED TO GROUT OR TUCK-POINT MORTAR JOINTS (SOMETIMES CALLED GROUTING MORTARS)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 3.4                                                                                                                                          | PRIOR TO INSTALLATION OF THIN BE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
|                                                                                                                | BETWEEN THIN BRICK UNITS AFTER THEY ARE ADHERED TO THE SUBSTRATE WALL. MIX BY PROPORTION: 1<br>PART PORTLAND CEMENT (ASTM C150); 1 PART HYDRATED LIME (ASTM C207); 6 PARTS SAND (ASTM C144),                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                                                                                                              | ADJUSTMENTS THAT ARE NECESSA<br>LESS THAN 1/2 OF THE FULL UNIT W                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
|                                                                                                                | OR MODIFIED EPOXY EMULSION MORTAR/GROUT CONFORMING TO ANSI 118.07.<br>A. SITE MIXED: MEET REQUIREMENTS OF ASTM C270 TYPE N OR TYPE S.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 3.5                                                                                                                                          | AND USING 3/4 LENGTH (APPROX.) U<br>ADJUST JOINT WIDTHS WITHIN ESTA                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
|                                                                                                                | B. PREBLENDED: MEET REQUIREMENTS OF ASTM C1714/C1714M TYPE N OR TYPE S.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 5.5                                                                                                                                          | LAYOUT TOLERANCES.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
|                                                                                                                | THER-RESISTIVE BARRIER (WRB)<br>SECTION 071000 FOR ADDITIONAL INFORMATION                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 3.6                                                                                                                                          | ADJUSTMENTS TO LAYOUT, INCLUD<br>BE APPROVED BY THE ARCHITECT F                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| .5                                                                                                             | SHEET GOODS: FOR EXTERIOR WALL (NOT ROOF) APPLICATIONS. COMPATIBLE WITH CEMENTITIOUS<br>PLASTER AND MORTAR CAPABLE OF BOND CAPACITIES OF 50 PSI (0.34 MPA) SHEAR AND TENSION BOND                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
|                                                                                                                | TEASTER AND MORTAR ON ABLE OF BOND ON ACTIES OF SUT OF (0.54 MILA) SHEAR AND TENSION BOND                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | EXTER                                                                                                                                        | RIOR THICK SET APPLICATION FOR UN                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| 6                                                                                                              | ELASTOMERIC LIQUID/ELUID APPLIED: COMPATIBLE WITH CEMENTITIOUS PLASTER AND MORTAR CAPABLE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                                                                                                              | RIOR THICK SET APPLICATION FOR UN<br>OLLOWING GUIDELINES ARE INTENDE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| .6                                                                                                             | ELASTOMERIC LIQUID/FLUID APPLIED: COMPATIBLE WITH CEMENTITIOUS PLASTER AND MORTAR CAPABLE<br>OF BOND CAPACITIES OF 150 PSI (1.03 MPA) SHEAR AND TENSION BOND.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | THE F<br>OR WI                                                                                                                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
|                                                                                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | THE F<br>OR WI                                                                                                                               | OLLOWING GUIDELINES ARE INTENDE<br>HEN USING THIN BRICK WITH UNDULAT<br>NESS.<br>PROTECT ADJACENT CONSTRUCTIO                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| RAIN                                                                                                           | OF BOND CAPACITIES OF 150 PSI (1.03 MPA) SHEAR AND TENSION BOND.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | THE F<br>OR WI<br>THICK<br>3.7                                                                                                               | OLLOWING GUIDELINES ARE INTENDE<br>HEN USING THIN BRICK WITH UNDULAT<br>NESS.<br>PROTECT ADJACENT CONSTRUCTIO<br>EFFECTS OF LAYING OF BRICK MAS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| RAIN                                                                                                           | OF BOND CAPACITIES OF 150 PSI (1.03 MPA) SHEAR AND TENSION BOND.<br>NAGE LAYER<br>SHEET OR ROLL GOODS COMPRISED OF WOVEN PLASTIC STRANDS, PLASTIC STRAND MESH, PROFILED<br>(RIBBED, OR DIMPLED) PLASTIC SHEETING, ALL FACED WITH FILTER FABRIC. ALTERNATIVELY, THE<br>DRAINAGE LAYER MAY BE CREATED WITH A FILTER MEMBRANE WITH DIMPLES, OR "BUTTONS", OTHER<br>PROTRUSIONS BONDED TO THE SURFACE WHICH CREATE A 3/16" (5 MM) (MINIMUM) AIR SPACE, OR OTHER                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | THE F<br>OR WI<br>THICK                                                                                                                      | OLLOWING GUIDELINES ARE INTENDE<br>HEN USING THIN BRICK WITH UNDULAT<br>NESS.<br>PROTECT ADJACENT CONSTRUCTIO<br>EFFECTS OF LAYING OF BRICK MAS<br>INSTALL FLASHING AT THE PERIMET<br>AT BASE OF VENEER, INTEGRATED                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| RAIN                                                                                                           | OF BOND CAPACITIES OF 150 PSI (1.03 MPA) SHEAR AND TENSION BOND.<br>NAGE LAYER<br>SHEET OR ROLL GOODS COMPRISED OF WOVEN PLASTIC STRANDS, PLASTIC STRAND MESH, PROFILED<br>(RIBBED, OR DIMPLED) PLASTIC SHEETING, ALL FACED WITH FILTER FABRIC. ALTERNATIVELY, THE<br>DRAINAGE LAYER MAY BE CREATED WITH A FILTER MEMBRANE WITH DIMPLES, OR "BUTTONS", OTHER                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | THE F<br>OR WI<br>THICK<br>3.7                                                                                                               | OLLOWING GUIDELINES ARE INTENDE<br>HEN USING THIN BRICK WITH UNDULAT<br>NESS.<br>PROTECT ADJACENT CONSTRUCTIO<br>EFFECTS OF LAYING OF BRICK MAS<br>INSTALL FLASHING AT THE PERIMET<br>AT BASE OF VENEER, INTEGRATED<br>BUILDING AND TO TRANSMIT THE MO<br>SCREEDS) AT THE BOTTOM OF THE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| RAIN                                                                                                           | OF BOND CAPACITIES OF 150 PSI (1.03 MPA) SHEAR AND TENSION BOND.<br><b>NAGE LAYER</b><br>SHEET OR ROLL GOODS COMPRISED OF WOVEN PLASTIC STRANDS, PLASTIC STRAND MESH, PROFILED<br>(RIBBED, OR DIMPLED) PLASTIC SHEETING, ALL FACED WITH FILTER FABRIC. ALTERNATIVELY, THE<br>DRAINAGE LAYER MAY BE CREATED WITH A FILTER MEMBRANE WITH DIMPLES, OR "BUTTONS", OTHER<br>PROTRUSIONS BONDED TO THE SURFACE WHICH CREATE A 3/16" (5 MM) (MINIMUM) AIR SPACE, OR OTHER<br>SUITABLE MATERIAL TO PROVIDE A SEPARATION THAT ALLOWS WATER TO DRAIN OUT OF THE WALL<br>SYSTEM.<br>A. HYDROGAP® BY BENJAMIN OBDYKE, OR EQUIVALENT<br>B. MORTAIRVENT® BY ADVANCED BUILDING PRODUCTS, OR EQUIVALENT                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | THE F<br>OR WI<br>THICK<br>3.7<br>3.8                                                                                                        | OLLOWING GUIDELINES ARE INTENDE<br>HEN USING THIN BRICK WITH UNDULAT<br>NESS.<br>PROTECT ADJACENT CONSTRUCTION<br>EFFECTS OF LAYING OF BRICK MASH<br>INSTALL FLASHING AT THE PERIMET<br>AT BASE OF VENEER, INTEGRATED A<br>BUILDING AND TO TRANSMIT THE MASH<br>SCREEDS) AT THE BOTTOM OF THE<br>THE OUTSIDE FACE OF THE WALL. S                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| .7                                                                                                             | OF BOND CAPACITIES OF 150 PSI (1.03 MPA) SHEAR AND TENSION BOND.<br><b>NAGE LAYER</b><br>SHEET OR ROLL GOODS COMPRISED OF WOVEN PLASTIC STRANDS, PLASTIC STRAND MESH, PROFILED<br>(RIBBED, OR DIMPLED) PLASTIC SHEETING, ALL FACED WITH FILTER FABRIC. ALTERNATIVELY, THE<br>DRAINAGE LAYER MAY BE CREATED WITH A FILTER MEMBRANE WITH DIMPLES, OR "BUTTONS", OTHER<br>PROTRUSIONS BONDED TO THE SURFACE WHICH CREATE A 3/16" (5 MM) (MINIMUM) AIR SPACE, OR OTHER<br>SUITABLE MATERIAL TO PROVIDE A SEPARATION THAT ALLOWS WATER TO DRAIN OUT OF THE WALL<br>SYSTEM.<br>A. HYDROGAP® BY BENJAMIN OBDYKE, OR EQUIVALENT<br>B. MORTAIRVENT® BY ADVANCED BUILDING PRODUCTS, OR EQUIVALENT<br>C. SURE CAVITY™ BY MTI, OR EQUIVALENT                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | THE F<br>OR WI<br>THICK<br>3.7                                                                                                               | OLLOWING GUIDELINES ARE INTENDE<br>HEN USING THIN BRICK WITH UNDULAT<br>NESS.<br>PROTECT ADJACENT CONSTRUCTION<br>EFFECTS OF LAYING OF BRICK MASH<br>INSTALL FLASHING AT THE PERIMET<br>AT BASE OF VENEER, INTEGRATED V<br>BUILDING AND TO TRANSMIT THE MASH<br>SCREEDS) AT THE BOTTOM OF THE<br>THE OUTSIDE FACE OF THE WALL. S<br>INSTALL TWO LAYERS OF WRB SHELL<br>STARTING AT THE BOTTOM OF THE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
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| 2 <b>RAIN</b><br>.7<br>.7<br>EEE S<br>.8<br>.9<br><b>ATH</b><br>                                               | OF BOND CAPACITIES OF 150 PSI (1.03 MPA) SHEAR AND TENSION BOND.<br><b>VAGE LAYER</b><br>SHEET OR ROLL GOODS COMPRISED OF WOVEN PLASTIC STRANDS, PLASTIC STRAND MESH, PROFILED<br>(RIBBED, OR DIMPLED) PLASTIC SHEETING, ALL FACED WITH FILTER FABRIC. ALTERNATIVELY, THE<br>DRAINAGE LAYER MAY BE CREATED WITH A FILTER MEMBRANE WITH DIMPLES, OR "BUTTONS", OTHER<br>PROTRUSIONS BONDED TO THE SURFACE WHICH CREATE A 3/16" (5 MM) (MINIMUM) AIR SPACE, OR OTHER<br>SUITABLE MATERIAL TO PROVIDE A SEPARATION THAT ALLOWS WATER TO DRAIN OUT OF THE WALL<br>SYSTEM.<br>A. HYDROGAP® BY BENJAMIN OBDYKE, OR EQUIVALENT<br>B. MORTAIRVENT® BY ADVANCED BUILDING PRODUCTS, OR EQUIVALENT<br>C. SURE CAVITY™ BY MTI, OR EQUIVALENT<br><b>EXERTOR INSULATION</b><br>SECTION 072113 FOR ADDITIONAL INFORMATION<br>TYPE AND THICKNESS AS DEFINED IN THE DRAWINGS<br>TO BE INSTALLED AS PART OF THE EXTERIOR ADHERED THIN BRICK WALL SYSTEM OUTBOARD OF THE WRB<br><b>(FURRED)</b><br>3/8" (9.5MM) DIMPLES OR RIBS, 3.4 LB./YD2 (1.9KG/M2) SELF-FURRING EXPANDED GALVANIZED METAL LATH –<br>ASTM C847<br>1/4" (6.3MM) DIMPLES OR RIBS, 2.5 LB/YD2 (1.4KG/M2) (OR HEAVIER) SELF-FURRING METAL LATH – ASTM C874<br>WELDED WIRE LATH – ASTM C933                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | THE F<br>OR WI<br>THICK<br>3.7<br>3.8<br>3.9<br>3.9                                                                                          | OLLOWING GUIDELINES ARE INTENDED<br>HEN USING THIN BRICK WITH UNDULAT<br>NESS.<br>PROTECT ADJACENT CONSTRUCTION<br>EFFECTS OF LAYING OF BRICK MASH<br>INSTALL FLASHING AT THE PERIMET<br>AT BASE OF VENEER, INTEGRATED A<br>BUILDING AND TO TRANSMIT THE MASS<br>SCREEDS) AT THE BOTTOM OF THE<br>THE OUTSIDE FACE OF THE WALL. S<br>INSTALL TWO LAYERS OF WRB SHEET<br>STARTING AT THE BOTTOM OF THE<br>UNINTERRUPTED DRAINAGE PATH.<br>AND 6 IN. (152 MM) MINIMUM FOR VE<br>SECURE IN PLACE WITH MASTIC, AD<br>WHERE DRAINAGE LAYER IS USED;<br>SHEET GOODS.<br>A. ALTERNATIVELY, APPLY LIQ<br>INSTALL OPTIONAL (RECOMMENDED<br>TERMINATIONS THAT WOULD IMPED<br>IT TO THE EXTERIOR SURFACE. SEC<br>A. SEE 3.04-F-1 FOR ALTERNAT<br>WHERE EXTERIOR INSULATION IS IN<br>INSTALLED OVER THE OPTIONAL BU<br>APPROPRIATE FASTENERS.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
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| RAIN<br>7<br>IGID<br>EE S<br>8<br>9<br>ATH                                                                     | OF BOND CAPACITIES OF 150 PSI (1.03 MPA) SHEAR AND TENSION BOND.  AGE LAYER  SHEET OR ROLL GOODS COMPRISED OF WOVEN PLASTIC STRANDS, PLASTIC STRAND MESH, PROFILED (RIBBED, OR DIMPLED) PLASTIC SHEETING, ALL FACED WITH FILTER FABRIC. ALTERNATIVELY, THE DRAINAGE LAYER MAY BE CREATED WITH A FILTER MEMBRANE WITH DIMPLES, OR "BUTTONS", OTHER PROTRUSIONS BONDED TO THE SURFACE WHICH CREATE A 3/16" (5 MM) (MINIMUM) AIR SPACE, OR OTHER SUITABLE MATERIAL TO PROVIDE A SEPARATION THAT ALLOWS WATER TO DRAIN OUT OF THE WALL SYSTEM.  A. HYDROGAP® BY BENJAMIN OBDYKE, OR EQUIVALENT B. MORTAIRVENT® BY ADVANCED BUILDING PRODUCTS, OR EQUIVALENT C. SURE CAVITY™ BY MTI, OR EQUIVALENT EXTERIOR INSULATION FYPE AND THICKNESS AS DEFINED IN THE DRAWINGS TO BE INSTALLED AS PART OF THE EXTERIOR ADHERED THIN BRICK WALL SYSTEM OUTBOARD OF THE WRB <b>FURRED</b> 3/8" (9.5MM) DIMPLES OR RIBS, 3.4 LB/YD2 (1.9KG/M2) SELF-FURRING EXPANDED GALVANIZED METAL LATH – ASTM C847 1/4" (6.3MM) DIMPLES OR RIBS, 2.5 LB/YD2 (1.4KG/M2) (OR HEAVIER) SELF-FURRING METAL LATH – ASTM C874 WELDED WIRE LATH – ASTM C933 PROPRIETARY INTEGRAL WOVEN FIBERGLASS LATH AND PROFILED DRAINAGE MEMBRANE – SEE 2.09-F.  HINC                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | THE F<br>OR WI<br>THICK<br>3.7<br>3.8<br>3.9<br>3.9<br>3.10<br>3.11                                                                          | OLLOWING GUIDELINES ARE INTENDED<br>HEN USING THIN BRICK WITH UNDULAT<br>NESS.<br>PROTECT ADJACENT CONSTRUCTION<br>EFFECTS OF LAYING OF BRICK MASH<br>INSTALL FLASHING AT THE PERIMET<br>AT BASE OF VENEER, INTEGRATED A<br>BUILDING AND TO TRANSMIT THE MASS<br>SCREEDS) AT THE BOTTOM OF THE<br>THE OUTSIDE FACE OF THE WALL. S<br>INSTALL TWO LAYERS OF WRB SHEET<br>STARTING AT THE BOTTOM OF THE<br>UNINTERRUPTED DRAINAGE PATH.<br>AND 6 IN. (152 MM) MINIMUM FOR VE<br>SECURE IN PLACE WITH MASTIC, AD<br>WHERE DRAINAGE LAYER IS USED;<br>SHEET GOODS.<br>A. ALTERNATIVELY, APPLY LIQ<br>INSTALL OPTIONAL (RECOMMENDED<br>TERMINATIONS THAT WOULD IMPED<br>IT TO THE EXTERIOR SURFACE. SEC<br>A. SEE 3.04-F-1 FOR ALTERNAT<br>WHERE EXTERIOR INSULATION IS IN<br>INSTALLED OVER THE OPTIONAL BU<br>APPROPRIATE FASTENERS.<br>INSTALL METAL LATH COMPLYING W<br>1/4" (6 MM) OFF THE FACE OF THE SU<br>(RECOMMENDED). REFER TO ASTM<br>PLASTERING APPLICATIONS. SECUR<br>THE FASTENERS IS 16 IN. (406 MM) O<br>O.C.<br>A. ALTERNATIVE: DRAINAGE L                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>RAIN</b><br>.7<br>.7<br>.8<br>.9<br><b>ATH</b>                                                              | OF BOND CAPACITIES OF 150 PSI (1.03 MPA) SHEAR AND TENSION BOND.  VAGE LAYER  SHEET OR ROLL GOODS COMPRISED OF WOVEN PLASTIC STRANDS, PLASTIC STRAND MESH, PROFILED (RIBBED, OR DIMPLED) PLASTIC SHEETING, ALL FACED WITH FILTER FABRIC. ALTERNATIVELY, THE DRAINAGE LAYER MAY BE CREATED WITH A FILTER MEMBRANE WITH DIMPLES, OR "BUTTONS", OTHER PROTRUSIONS BONDED TO THE SURFACE WHICH CREATE A 3/16" (5 MM) (MINIMUM) AIR SPACE, OR OTHER SUITABLE MATERIAL TO PROVIDE A SEPARATION THAT ALLOWS WATER TO DRAIN OUT OF THE WALL SYSTEM.  A. HYDROGAP® BY BENJAMIN OBDYKE, OR EQUIVALENT B. MORTAIRVENT® BY ADVANCED BUILDING PRODUCTS, OR EQUIVALENT C. SURE CAVITY™ BY MTI, OR EQUIVALENT  ETERIOR INSULATION ETETION 072113 FOR ADDITIONAL INFORMATION TYPE AND THICKNESS AS DEFINED IN THE DRAWINGS TO BE INSTALLED AS PART OF THE EXTERIOR ADHERED THIN BRICK WALL SYSTEM OUTBOARD OF THE WRB  [URRED]  3/8" (9.6MM) DIMPLES OR RIBS, 3.4 LB./YD2 (1.9KG/M2) SELF-FURRING EXPANDED GALVANIZED METAL LATH – ASTM C847 1/4" (6.3MM) DIMPLES OR RIBS, 3.4 LB./YD2 (1.9KG/M2) (OR HEAVIER) SELF-FURRING METAL LATH – ASTM C874 WELDED WIRE LATH – ASTM C933 PROPRIETARY INTEGRAL WOVEN FIBERGLASS LATH AND PROFILED DRAINAGE MEMBRANE – SEE 2.09-F.  HIMC CORROSION RESISTANT PLASTIC, COPPER, STAINLESS STEEL, PAINTED METAL, COATED METAL AS SHOWN ON THE DRAWINGS. SEE SECTION 076000 FOR ADDITIONAL INFORMATION.  SEVEN                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | THE F<br>OR WI<br>THICK<br>3.7<br>3.8<br>3.9<br>3.9<br>3.10<br>3.11<br>3.11                                                                  | <ul> <li>OLLOWING GUIDELINES ARE INTENDED<br/>HEN USING THIN BRICK WITH UNDULATIONSS.</li> <li>PROTECT ADJACENT CONSTRUCTION<br/>EFFECTS OF LAYING OF BRICK MASH</li> <li>INSTALL FLASHING AT THE PERIMET<br/>AT BASE OF VENEER, INTEGRATED AND<br/>BUILDING AND TO TRANSMIT THE MASH<br/>SCREEDS) AT THE BOTTOM OF THE<br/>THE OUTSIDE FACE OF THE WALL. SI</li> <li>INSTALL TWO LAYERS OF WRB SHEED<br/>STARTING AT THE BOTTOM OF THE<br/>UNINTERRUPTED DRAINAGE PATH.<br/>AND 6 IN. (152 MM) MINIMUM FOR VESECURE IN PLACE WITH MASTIC, AD<br/>WHERE DRAINAGE LAYER IS USED;<br/>SHEET GOODS.</li> <li>A. ALTERNATIVELY, APPLY LIQ</li> <li>INSTALL OPTIONAL (RECOMMENDED<br/>TERMINATIONS THAT WOULD IMPED<br/>IT TO THE EXTERIOR SURFACE. SEC<br/>A. SEE 3.04-F-1 FOR ALTERNAT</li> <li>WHERE EXTERIOR INSULATION IS IN<br/>INSTALLED OVER THE OPTIONAL BU<br/>APPROPRIATE FASTENERS.</li> <li>INSTALL METAL LATH COMPLYING W<br/>1/4" (6 MM) OFF THE FACE OF THE SU<br/>(RECOMMENDED). REFER TO ASTM<br/>PLASTERING APPLICATIONS. SECURE<br/>THE FASTENERS IS 16 IN. (406 MM) O<br/>O.C.</li> <li>A. ALTERNATIVE: DRAINAGE LAYER IS ASTM</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| <b>RAIN</b><br>7<br><b>IGID</b><br>EE S<br>8<br>9<br><b>ATH</b>                                                | OF BOND CAPACITIES OF 150 PSI (1.03 MPA) SHEAR AND TENSION BOND.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | THE F<br>OR WI<br>THICK<br>3.7<br>3.8<br>3.9<br>3.9<br>3.10<br>3.11                                                                          | OLLOWING GUIDELINES ARE INTENDED<br>HEN USING THIN BRICK WITH UNDULATINESS.<br>PROTECT ADJACENT CONSTRUCTION<br>EFFECTS OF LAYING OF BRICK MASH<br>INSTALL FLASHING AT THE PERIMETANT BASE OF VENEER, INTEGRATED A<br>BUILDING AND TO TRANSMIT THE MASS<br>SCREEDS) AT THE BOTTOM OF THE<br>THE OUTSIDE FACE OF THE WALL. S<br>INSTALL TWO LAYERS OF WRB SHELL<br>STARTING AT THE BOTTOM OF THE<br>UNINTERRUPTED DRAINAGE PATH.<br>AND 6 IN. (152 MM) MINIMUM FOR VE<br>SECURE IN PLACE WITH MASTIC, AD<br>WHERE DRAINAGE LAYER IS USED;<br>SHEET GOODS.<br>A. ALTERNATIVELY, APPLY LIQ<br>INSTALL OPTIONAL (RECOMMENDED<br>TERMINATIONS THAT WOULD IMPED<br>IT TO THE EXTERIOR SURFACE. SEC<br>A. SEE 3.04-F-1 FOR ALTERNAT<br>WHERE EXTERIOR INSULATION IS IN<br>INSTALLED OVER THE OPTIONAL BU<br>APPROPRIATE FASTENERS.<br>INSTALL METAL LATH COMPLYING W<br>¼" (6 MM) OFF THE FACE OF THE SU<br>(RECOMMENDED), REFER TO ASTM<br>PLASTERING APPLICATIONS. SECUR<br>THE FASTENERS IS 16 IN. (406 MM) O<br>O.C.<br>A. ALTERNATIVE: DRAINAGE LA<br>COMBINED WITH A DRAINAGE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
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|                                                                                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| <b>NRAIN</b> 7 <b>RIGID</b> SEE S        8        9 <b>ATH</b>                                                 | OF BOND CAPACITIES OF 150 PSI (1.03 MPA) SHEAR AND TENSION BOND.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | THE F<br>OR WI<br>THICK<br>3.7<br>3.8<br>3.9<br>3.9<br>3.10<br>3.11<br>3.11                                                                  | <ul> <li>OLLOWING GUIDELINES ARE INTENDER<br/>HEN USING THIN BRICK WITH UNDULATINESS.</li> <li>PROTECT ADJACENT CONSTRUCTION<br/>EFFECTS OF LAYING OF BRICK MASH</li> <li>INSTALL FLASHING AT THE PERIMET<br/>AT BASE OF VENEER, INTEGRATED WE<br/>BUILDING AND TO TRANSMIT THE MASH<br/>SCREEDS) AT THE BOTTOM OF THE<br/>THE OUTSIDE FACE OF THE WALL. SI</li> <li>INSTALL TWO LAYERS OF WRB SHELD<br/>STARTING AT THE BOTTOM OF THE<br/>UNINTERRUPTED DRAINAGE PATH.<br/>AND 6 IN. (152 MM) MINIMUM FOR VESECURE IN PLACE WITH MASTIC, AD<br/>WHERE DRAINAGE LAYER IS USED;<br/>SHEET GOODS.</li> <li>A. ALTERNATIVELY, APPLY LIQ</li> <li>INSTALL OPTIONAL (RECOMMENDED<br/>TERMINATIONS THAT WOULD IMPED<br/>IT TO THE EXTERIOR SURFACE. SEC<br/>A. SEE 3.04-F-1 FOR ALTERNAT</li> <li>WHERE EXTERIOR INSULATION IS IN<br/>INSTALLED OVER THE OPTIONAL BU<br/>APPROPRIATE FASTENERS.</li> <li>INSTALL METAL LATH COMPLYING W<br/>¼" (6 MM) OFF THE FACE OF THE SU<br/>(RECOMMENDED). REFER TO ASTM<br/>PLASTERING APPLICATIONS. SECURT<br/>THE FASTENERS IS 16 IN. (406 MM) O<br/>O.C.</li> <li>A. ALTERNATIVE: DRAINAGE LA<br/>COMBINED WITH A DRAINAGE</li> <li>APPLY ½" TO 1" (13 MM TO 25 MM) TH<br/>DUST-FREE SUBSTRATE, USING TYPE<br/>CEMENTITIOUS PLASTER WITH AT LID<br/>ABOVE. SCARIFY SURFACE WHILE M<br/>PLASTER (STUCCO) OVER RIGID INS<br/>A. CONTIGUOUS AREAS OF CE</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| <b>RAIN</b><br>7<br><b>IGID</b><br>EE S<br>8<br>9<br><b>ATH</b><br>10<br><b>LASI</b><br>10<br><b>CCE</b><br>11 | OF BOND CAPACITIES OF 150 PSI (1.03 MPA) SHEAR AND TENSION BOND. <b>YAGE LAYER</b> SHEET OR ROLL GOODS COMPRISED OF WOVEN PLASTIC STRANDS, PLASTIC STRAND MESH, PROFILED (RIBBED, OR DIMPLED) PLASTIC SHEETING, ALL FACED WITH FILTER FABRIC. ALTERNATIVELY, THE DRAINAGE LAYER MAY BE CREATED WITH A FILTER MEMBRANE WITH DIMPLES, OR "BUTTONS", OTHER PROTRUSIONS BONDED TO THE SURFACE WHICH CREATE A 3/16' (5 MM) (MINIMUM) AIR SPACE, OR OTHER SUITABLE MATERIAL TO PROVIDE A SEPARATION THAT ALLOWS WATER TO DRAIN OUT OF THE WALL SYSTEM.  A. HIDROGAP® BY BENJAMIN OBDYKE, OR EQUIVALENT B. MORTAIRVENT® BY ADVANCED BUILDING PRODUCTS, OR EQUIVALENT C. SURE CAVITY™ BY MTI, OR EQUIVALENT  EXTEROR INSULATION SO THE EXTERIOR ADHERED THIN BRICK WALL SYSTEM OUTBOARD OF THE WRB INSULATION O72113 FOR ADDITIONAL INFORMATION INSULATION SO THE EXTERIOR ADHERED THIN BRICK WALL SYSTEM OUTBOARD OF THE WRB INSULATION SO THE SALE IN THE DRAWINGS IN DE INSTALLED AS PART OF THE EXTERIOR ADHERED THIN BRICK WALL SYSTEM OUTBOARD OF THE WRB INSULATION OTHER SALE IN THE CARMINGS INSULATION OF THE SALE IN THE DRAWINGS INSULATION OF THE SALE IN THE AND PROFILED DRAINAGE MEMBRANE – SEE 2.09-F. INSULATION INFUE DATH – ASTM C933 PROPRIETARY INTEGRAL WOVEN FIBERGLASS LATH AND PROFILED DRAINAGE MEMBRANE – SEE 2.09-F. HIMS CORROSION RESISTANT PLASTIC, COPPER, STAINLESS STEEL, PAINTED METAL, COATED METAL AS SHOWN ON THE DRAWINGS. SEE SECTION 076000 FOR ADDITIONAL INFORMATION. SSORES WEEP SCREEDS: CORROSION RESISTANT WITH 3.5'' (89MM) (MINIMUM) VERTICAL ATTACHMENT FLANGE (THAT TERMINATES BEHIND WRB) A. PLASTIC WEEP SCREED: NOT LESS THAN 0.05 INCHES (1.3MM)                                                                                | THE F<br>OR WI<br>THICK<br>3.7<br>3.8<br>3.9<br>3.9<br>3.10<br>3.11<br>3.11                                                                  | <ul> <li>OLLOWING GUIDELINES ARE INTENDER<br/>HEN USING THIN BRICK WITH UNDULATINESS.</li> <li>PROTECT ADJACENT CONSTRUCTION<br/>EFFECTS OF LAYING OF BRICK MASH</li> <li>INSTALL FLASHING AT THE PERIMET<br/>AT BASE OF VENEER, INTEGRATED VENDER, INTEGRATED VENDER, INTEGRATED VENDER, INTEGRATED VENDED AND TO TRANSMIT THE MUSCREEDS) AT THE BOTTOM OF THE<br/>THE OUTSIDE FACE OF THE WALL. S</li> <li>INSTALL TWO LAYERS OF WRB SHEET<br/>STARTING AT THE BOTTOM OF THE<br/>UNINTERRUPTED DRAINAGE PATH.<br/>AND 6 IN. (152 MM) MINIMUM FOR VE<br/>SECURE IN PLACE WITH MASTIC, AD<br/>WHERE DRAINAGE LAYER IS USED;<br/>SHEET GOODS.</li> <li>A. ALTERNATIVELY, APPLY LIQ</li> <li>INSTALL OPTIONAL (RECOMMENDED<br/>TERMINATIONS THAT WOULD IMPED<br/>IT TO THE EXTERIOR SURFACE. SEC<br/>A. SEE 3.04-F-1 FOR ALTERNAT</li> <li>WHERE EXTERIOR INSULATION IS IN<br/>INSTALLED OVER THE OPTIONAL BU<br/>APPROPRIATE FASTENERS.</li> <li>INSTALL METAL LATH COMPLYING W<br/>¼" (6 MM) OFF THE FACE OF THE SU<br/>(RECOMMENDED). REFER TO ASTM<br/>PLASTERING APPLICATIONS. SECURE<br/>THE FASTENERS IS 16 IN. (406 MM) O<br/>O.C.</li> <li>A. ALTERNATIVE: DRAINAGE LJ<br/>COMBINED WITH A DRAINAGE<br/>APPLY ½" TO 1" (13 MM TO 25 MM) TH<br/>DUST-FREE SUBSTRATE, USING TYP<br/>CEMENTITIOUS PLASTER WITH AT LI<br/>ABOVE. SCARIFY SURFACE WHILE M<br/>PLASTER (STUCCO) OVER RIGID INS<br/>A. CONTIGUOUS AREAS OF CE<br/>THE PLASTER SHOULD NOT<br/>18 FEET (5.5 M), AND WITH T</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| <b>RAIN</b><br>7<br>7<br><b>IGID</b><br>EE S<br>8<br>9<br><b>ATH</b><br>10<br><b>CCE</b><br>11                 | OF BOND CAPACITIES OF 150 PSI (1.03 MPA) SHEAR AND TENSION BOND. <b>VAGE LAYER</b> SHEET OR ROLL GOODS COMPRISED OF WOVEN PLASTIC STRANDS, PLASTIC STRAND MESH, PROFILED (RIBBED, OR DIMPLED) PLASTIC SHEETING, ALL FACED WITH FILTER FABRIC, ALTERNATIVELY, THE DRAINAGE LAYER MAY BE CREATED WITH A FILTER MEMBRANE WITH DIMPLES, OR "BUTTONS", OTHER PROTRUSIONS BONDED TO THE SURFACE WHICH CREATE A 3'16' (5 MM) (MINIMUM) AIR SPACE, OR OTHER SUITABLE MATERIAL TO PROVIDE A SEPARATION THAT ALLOWS WATER TO DRAIN OUT OF THE WALL SYSTEM. A. HYDROGAP® BY BENJAMIN OBDYKE, OR EQUIVALENT B. MORTAIRVENT® BY ADVANCED BUILDING PRODUCTS, OR EQUIVALENT C. SURE CAVITY™ BY ADVANCED BUILDING PRODUCTS, OR EQUIVALENT EXTERIOR INSULATION TYPE AND THICKNESS AS DEFINED IN THE DRAWINGS TO BE INSTALLED AS PART OF THE EXTERIOR ADHERED THIN BRICK WALL SYSTEM OUTBOARD OF THE WRB <b>(FURRED)</b> 3/8' (9.5MM) DIMPLES OR RIBS, 3.4 LB./YD2 (1.9KG/M2) SELF-FURRING EXPANDED GALVANIZED METAL LATH – ASTM C847 1/4' (6.3MM) DIMPLES OR RIBS, 2.5 LB/YD2 (1.4KG/M2) (OR HEAVIER) SELF-FURRING METAL LATH – ASTM C874 WELDED WIRE LATH – ASTM C933 PROPRIETARY INTEGRAL WOVEN FIBERGLASS LATH AND PROFILED DRAINAGE MEMBRANE – SEE 2.09-F. <b>HINC</b> CORROSION RESISTANT PLASTIC, COPPER, STAINLESS STEEL, PAINTED METAL, COATED METAL AS SHOWN ON THE DRAWINGS. SEE SECTION 076000 FOR ADDITIONAL INFORMATION. <b>SSORIES</b> WEEP SCREEDS: CORROSION RESISTANT WITH 3.5' (89MM) (MINIMUM) VERTICAL ATTACHMENT FLANGE (THAT TERMINATES BEHIND WRB) A. METAL WEEP SCREED: NOT LESS THAN 26 GAGE; .0179 INCHES (0.45MM) B. PLASTIC WEEP SCREED: NOT LESS THAN 26 GAGE; .0179 INCHES (0.45MM)                                                                                                                                                                                                                               | THE F<br>OR WI<br>THICK<br>3.7<br>3.8<br>3.9<br>3.9<br>3.10<br>3.11<br>3.11                                                                  | <ul> <li>OLLOWING GUIDELINES ARE INTENDEREN USING THIN BRICK WITH UNDULATINESS.</li> <li>PROTECT ADJACENT CONSTRUCTIONERFECTS OF LAYING OF BRICK MASH</li> <li>INSTALL FLASHING AT THE PERIMETANT BASE OF VENEER, INTEGRATED OF BUILDING AND TO TRANSMIT THE MAST SCREEDS) AT THE BOTTOM OF THE THE OUTSIDE FACE OF THE WALL. S</li> <li>INSTALL TWO LAYERS OF WRB SHEIRSTARTING AT THE BOTTOM OF THE THE OUTSIDE FACE OF THE WALL. S</li> <li>INSTALL TWO LAYERS OF WRB SHEIRSTARTING AT THE BOTTOM OF THE UNINTERRUPTED DRAINAGE PATH. AND 6 IN. (152 MM) MINIMUM FOR VER SECURE IN PLACE WITH MASTIC, AD WHERE DRAINAGE LAYER IS USED; SHEET GOODS.</li> <li>A. ALTERNATIVELY, APPLY LIQUINSTALL OPTIONAL (RECOMMENDED TERMINATIONS THAT WOULD IMPEDIT TO THE EXTERIOR SURFACE. SECTA. SEE 3.04-F-1 FOR ALTERNATIONS THAT WOULD IMPEDIT TO THE EXTERIOR SURFACE. SECTA. SEE 3.04-F-1 FOR ALTERNATION IS ININSTALLED OVER THE OPTIONAL BUAPPROPRIATE FASTENERS.</li> <li>INSTALL METAL LATH COMPLYING WWW'' (6 MM) OFF THE FACE OF THE SUM (RECOMMENDED). REFER TO ASTM PLASTERING APPLICATIONS. SECURTING APPLICATIONS. SECURTING APPLICATIONS. SECURTING APPLICATIONS. SECURTING APPLICATIONS. SECURT THE FASTENERS IS 16 IN. (406 MM) OC.C.</li> <li>A. ALTERNATIVE: DRAINAGE LAYER WITH AT LABOVE. SCARIFY SURFACE WHILE MPLASTER WITH AT LABOVE. SCARIFY SURFACE WHILE MPLASTER (STUCCO) OVER RIGID INSTALLED OVER RIGID INSTALLED TO THE PLASTER SHOULD NOT 18 FEET (5.5 M), AND WITH TO TASTER SHOULD NOT 18 FEET (5.5 M), AND WITH TO TAKENTING APPLASTER SHOULD NOT 10 FOR STARTE, USING TYPE AND AND AND AND THAT THE PLASTER SHOULD NOT ANTER SHOULD NO</li></ul> |
| RAIN<br>7<br>7<br>8<br>9<br><b>ATH</b>                                                                         | OF BOND CAPACITIES OF 150 PSI (1.03 MPA) SHEAR AND TENSION BOND. <b>NAGE LAYER</b> SHEET OR ROLL GOODS COMPRISED OF WOVEN PLASTIC STRANDS, PLASTIC STRAND MESH, PROFILED (RIBBED, OR DIMPLED) PLASTIC SHEATING, ALL FACED WITH HITER FABRIC, ALTERNATIVELY, THE DRAINAGE LAYER MAY BE CREATED WITH A FILTER MEMBRANE WITH DIMPLES, OR 'BUTTONS', OTHER PROTRUSIONS BONDED TO THE SURFACE WHICH OREATE A 3'16' (5 MMI) (MINIMUM) AIR SPACE, OR OTHER SUITABLE MATERNAL TO PROVIDE A SEPARATION THAT ALLOWS WATER TO DRAIN OUT OF THE WALL SYSTEM. A. HYDROGAP® BY BENJAMIN OBDYKE, OR EQUIVALENT B. MORTARVENT® BY ADVANCED BUILDING PRODUCTS, OR EQUIVALENT C. SURE CAVITY™ BY ADVANCED BUILDING PRODUCTS, OR EQUIVALENT EXTEND SECTION 072'113 FOR ADDITIONAL INFORMATION TYPE AND THICKNESS AS DEFINED IN THE DRAWINGS TO BE INSTALLED AS PART OF THE EXTERIOR ADHERED THIN BRICK WALL SYSTEM OUTBOARD OF THE WRB (FURRED) 3/8' (9.5MMI) DIMPLES OR RIBS, 3.4 LB./YD2 (1.9KG/M2) SELF-FURRING EXPANDED GALVANIZED METAL LATH - ASTM C847 1/4' (6.3MMI) DIMPLES OR RIBS, 2.5 LB/YD2 (1.4KG/M2) (OR HEAVIER) SELF-FURRING METAL LATH - ASTM C874 WELDED WIRE LATH - ASTM C933 PROPRIETARY INTEGRAL WOVEN FIBERGLASS LATH AND PROFILED DRAINAGE MEMBRANE - SEE 2.09-F. HINC WEEP SCREEDS: CORROSION RESISTANT PLASTIC, COPPER, STAINLESS STEEL, PAINTED METAL, COATED METAL AS SHOWN ON THE DRAWINGS. SEE SECTION 076000 FOR ADDITIONAL INFORMATION. WEED SCREEDS: CORROSION RESISTANT WITH 3.5' (89MMI) (MINIMUM) VERTICAL ATTACHMENT FLANGE (THAT TERMINATES BEHIND WRB) A. METAL WEEP SCREED: NOT LESS THAN 26 GAGE; .0179 INCHES (0.45MM) B. PLASTIC WEEP SCREED: NOT LESS THAN 0.05 INCHES (1.3MM) ELASTOMERIC SEALANTS. SIZED FOR CALCULATED MOVEMENT. SECTION 079200 FASTENERS: ASTM C1063                                                                                                                               | <ul> <li>THE F<br/>OR WI<br/>THICK</li> <li>3.7</li> <li>3.8</li> <li>3.9</li> <li>3.10</li> <li>3.11</li> <li>3.12</li> <li>3.13</li> </ul> | <ul> <li>OLLOWING GUIDELINES ARE INTENDER<br/>HEN USING THIN BRICK WITH UNDULATINESS.</li> <li>PROTECT ADJACENT CONSTRUCTION<br/>EFFECTS OF LAYING OF BRICK MASH</li> <li>INSTALL FLASHING AT THE PERIMET<br/>AT BASE OF VENEER, INTEGRATED VENDER, INTEGRATED VENDER, INTEGRATED VENDER, INTEGRATED VENDED AND TO TRANSMIT THE MUSCREEDS) AT THE BOTTOM OF THE<br/>THE OUTSIDE FACE OF THE WALL. S</li> <li>INSTALL TWO LAYERS OF WRB SHEET<br/>STARTING AT THE BOTTOM OF THE<br/>UNINTERRUPTED DRAINAGE PATH.<br/>AND 6 IN. (152 MM) MINIMUM FOR VE<br/>SECURE IN PLACE WITH MASTIC, AD<br/>WHERE DRAINAGE LAYER IS USED;<br/>SHEET GOODS.</li> <li>A. ALTERNATIVELY, APPLY LIQ</li> <li>INSTALL OPTIONAL (RECOMMENDED<br/>TERMINATIONS THAT WOULD IMPED<br/>IT TO THE EXTERIOR SURFACE. SEC<br/>A. SEE 3.04-F-1 FOR ALTERNAT</li> <li>WHERE EXTERIOR INSULATION IS IN<br/>INSTALLED OVER THE OPTIONAL BU<br/>APPROPRIATE FASTENERS.</li> <li>INSTALL METAL LATH COMPLYING W<br/>¼" (6 MM) OFF THE FACE OF THE SU<br/>(RECOMMENDED). REFER TO ASTM<br/>PLASTERING APPLICATIONS. SECURE<br/>THE FASTENERS IS 16 IN. (406 MM) O<br/>O.C.</li> <li>A. ALTERNATIVE: DRAINAGE LJ<br/>COMBINED WITH A DRAINAGE<br/>APPLY ½" TO 1" (13 MM TO 25 MM) TH<br/>DUST-FREE SUBSTRATE, USING TYP<br/>CEMENTITIOUS PLASTER WITH AT LI<br/>ABOVE. SCARIFY SURFACE WHILE M<br/>PLASTER (STUCCO) OVER RIGID INS<br/>A. CONTIGUOUS AREAS OF CE<br/>THE PLASTER SHOULD NOT<br/>18 FEET (5.5 M), AND WITH T</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| RAIN<br>.7<br>.7<br>.8<br>.9<br>ATH<br>.10<br>.11<br>.11<br>.12<br>.13                                         | OF BOND CAPACITIES OF 150 PSI (1.03 MPA) SHEAR AND TENSION BOND. <b>NAGE LAYER</b> SHEET OR ROLL GOODS COMPRISED OF WOVEN PLASTIC STRANDS, PLASTIC STRAND MESH, PROFILED<br>(RIBBED, OR DIMPLED) PLASTIC SHEETING, ALL FACED WITH FILTER FABRIC. ALTERNATIVELY, THE<br>DRAINAGE LAYER MAY BE CREATED WITH A FILTER MEMBRANE WITH DIMPLES, OR BUITONS, OTHER<br>PROTRUSIONS BONDED TO THE SURFACE WHICH OREATE A 31'06 (5 MM) (MINIMUM) AIR SPACE. OR OTHER<br>SUITABLE MATERIAL TO PROVIDE A SEPARATION THAT ALLOWS WATER TO DRAIN OUT OF THE WALL<br>SYSTEM.         A.       HYDROGAP® BY BENJAMIN OBDYKE, OR EQUIVALENT         B.       MORTARVENT® BY ADIVANCED BUILDING PRODUCTS, OR EQUIVALENT         C.       SURE CAVITY™ BY MTI, OR EQUIVALENT         B.       MORTARVENT® BY ADIVANCED BUILDING PRODUCTS, OR EQUIVALENT         C.       SURE CAVITY™ BY MTI, OR EQUIVALENT         FEXTERIOR INSULATION       TYPE AND THICKNESS AS DEFINED IN THE DRAWINGS         TO BE INSTALLED AS PART OF THE EXTERIOR ADHERED THIN BRICK WALL SYSTEM OUTBOARD OF THE WRB <b>(FURRED)</b> 3/8' (9.5MM) DIMPLES OR RIBS, 3.4 LB./YD2 (1.9KG/M2) SELF-FURRING EXPANDED GALVANIZED METAL LATH –<br>ASTM C647         1/4'' (6.3MM) DIMPLES OR RIBS, 2.5 LB/YD2 (1.4KG/M2) (OR HEAVIER) SELF-FURRING METAL LATH – ASTM C874         WELDED WIRE LATH – ASTM C933         PROPRIETARY INTEGRAL WOVEN FIBERGLASS LATH AND PROFILED DRAINAGE MEMBRANE – SEE 2.09-F. <b>MING</b> CORROSION RESISTANT PLASTIC, COPPER, STAINLESS STEEL, PAINTED METAL, COATED METAL AS SHOWN<br>ON THE DRAWINGS. SEE SECTION 076000 F                                                                                                                                                                                                                                                                                                                | <ul> <li>THE F<br/>OR WI<br/>THICK</li> <li>3.7</li> <li>3.8</li> <li>3.9</li> <li>3.10</li> <li>3.11</li> <li>3.12</li> <li>3.13</li> </ul> | <ul> <li>OLLOWING GUIDELINES ARE INTENDEREN USING THIN BRICK WITH UNDULATIONS.</li> <li>PROTECT ADJACENT CONSTRUCTION EFFECTS OF LAYING OF BRICK MASH</li> <li>INSTALL FLASHING AT THE PERIMETA AT BASE OF VENEER, INTEGRATED AND BUILDING AND TO TRANSMIT THE MASCREEDS) AT THE BOTTOM OF THE THE OUTSIDE FACE OF THE WALL. S</li> <li>INSTALL TWO LAYERS OF WRB SHEET STARTING AT THE BOTTOM OF THE UNINTERRUPTED DRAINAGE PATH. AND 6 IN. (152 MM) MINIMUM FOR VESECURE IN PLACE WITH MASTIC, AD WHERE DRAINAGE LAYER IS USED; SHEET GOODS.</li> <li>A. ALTERNATIVELY, APPLY LIQ</li> <li>INSTALL OPTIONAL (RECOMMENDED TERMINATIONS THAT WOULD IMPED IT TO THE EXTERIOR SURFACE. SEC A. SEE 3.04-F-1 FOR ALTERNATION IS IN INSTALLED OVER THE OPTIONAL BUAPPROPRIATE FASTENERS.</li> <li>INSTALL METAL LATH COMPLYING W ¼" (6 MM) OFF THE FACE OF THE SU (RECOMMENDED). REFER TO ASTM PLASTERING APPLICATIONS. SECURTHE FASTENERS IS 16 IN. (406 MM) OC.</li> <li>A. ALTERNATIVE: DRAINAGE LAYER IS USED; THE FASTENERS IS 16 IN. (406 MM) OC.</li> <li>A. ALTERNATIVE: DRAINAGE LAYER OF THE SU (RECOMMENDED). REFER TO ASTM PLASTERING APPLICATIONS. SECURTHE FASTENERS IS 16 IN. (406 MM) OC.</li> <li>A. ALTERNATIVE: DRAINAGE LAYER OF THE SU (RECOMMENDED). REFER TO ASTM PLASTER SUBSTRATE, USING TYPE CEMENTITIOUS PLASTER WITH AT LABOVE. SCARIFY SURFACE WHILE MPLASTER SHOULD NOT 18 FEET (5.5 M), AND WITH TO THE PLASTER SHOULD NOT 18 FEET (5.5 M), AND WITH TO THE PLASTER SHOULD NOT EXCLURE SCRATCH COAT AT LEAST 24 SURFACE DRY, PRE-WET SURFACE</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| 2.7<br><b>RIGID</b><br>SEE S<br>2.8<br><b></b> 9<br><b></b> 10<br><b>10</b><br><b></b>                         | OF BOND CAPACITIES OF 150 PSI (1.03 MPA) SHEAR AND TENSION BOND. <b>NAGE LAYER</b> SHEET OR ROLL GOODS COMPRISED OF WOVEN PLASTIC STRANDS, PLASTIC STRAND MESH, PROFILED (RIBBED, OR DIMPLED) PLASTIC SHEETING, ALL FACED WITH FILTER FABRIC. ALTERNATIVELY. THE DRAINAGE LAYER MAY BE CREATED WITH A FILTER MEMBRANE WITH DIMPLES, OR BUITONS', OTHER PROTRUSIONS BONDED TO THE SUFFACE WHICH OREATE A 31°C (5 MM) (MINIMUM) AIR SPACE. OR OTHER SUITABLE MATERIAL TO PROVIDE A SEPARATION THAT ALLOWS WATER TO DRAIN OUT OF THE WALL SYSTEM. A. HYDROGAP® BY BENJAMIN OBDYKE, OR EQUIVALENT B. MORTARVENT® BY ADVANCED BUILDING PRODUCTS, OR EQUIVALENT C. SURC CANTTY" BY MTI, OR EQUIVALENT <b>EXTERIOR INSULATION</b> TYPE AND THICKNESS AS DEFINED IN THE DRAWINGS TO BE INSTALLED AS PART OF THE EXTERIOR ADHERED THIN BRICK WALL SYSTEM OUTBOARD OF THE WRB <b>(FURED)</b> 3/8" (9.5MM) DIMPLES OR RIBS, 3.4 LB./YD2 (1.9KG/M2) SELF-FURRING EXPANDED GALVANIZED METAL LATH – ASTM C874 WELDED WIRE LATH – ASTM C933 PROPRIETARY INTEGRAL WOVEN FIBERGLASS LATH AND PROFILED DRAINAGE MEMBRANE – SEE 2.09-F. <b>HING</b> CORROSION RESISTANT PLASTIC, COPPER, STAINLESS STEEL, PAINTED METAL, COATED METAL AS SHOWN ON THE DRAWINGS. SEE SECTION 076000 FOR ADDITIONAL INFORMATION. <b>SSORIES</b> WEEP SCREEDS: CORROSION RESISTANT WITH 3.5" (89MM) (MINIMUM) VERTICAL ATTACHMENT FLANGE (THAT TERMINATES BEHIND/WRB) A. MLASTER STAILESS THAN 0.05 INCHES (1.3MM) CASING BEADS: CORROSION RESISTANT WITH 3.5" (89MM) (MINIMUM) VERTICAL ATTACHMENT FLANGE (THAT TERMINATES BEHIND WRB) A. MLASTER STANL 205 STANL 205 STANL 205 STANL 205 STANL 205 STANL 205 STANL 207 PLASTIC WEEP SCREED. NOT LESS THAN 0.05 INCHES (1.3MM)  ELASTOMERIC SELANTS. SIZED FOR CALCULATED MOVEMENT. SECTION 079200 FASTENCES: ASTM C1063 A. FOR STELE TAXIN DIS CORROSION RESISTANT SCREWS; COATED OR BI-METALLIC (MILD [DRILL] TIP | THE F<br>OR WI<br>THICK<br>3.7<br>3.8<br>3.9<br>3.10<br>3.11<br>3.12<br>3.12<br>3.13                                                         | <ul> <li>OLLOWING GUIDELINES ARE INTENDEREN USING THIN BRICK WITH UNDULATIONESS.</li> <li>PROTECT ADJACENT CONSTRUCTIONERFECTS OF LAYING OF BRICK MASH</li> <li>INSTALL FLASHING AT THE PERIMETAT BASE OF VENEER, INTEGRATED AND BUILDING AND TO TRANSMIT THE MAST BASE OF VENEER, INTEGRATED AND AND THE BOTTOM OF THE THE OUTSIDE FACE OF THE WALL. S</li> <li>INSTALL TWO LAYERS OF WRB SHEED STARTING AT THE BOTTOM OF THE THE OUTSIDE FACE OF THE WALL. S</li> <li>INSTALL TWO LAYERS OF WRB SHEED STARTING AT THE BOTTOM OF THE THE OUTSIDE FACE OF THE WALL. S</li> <li>INSTALL TWO LAYERS OF WRB SHEED STARTING AT THE BOTTOM OF THE THE OUTSIDE FACE OF THE WALL. S</li> <li>INSTALL TWO LAYERS OF WRB SHEED STARTING AT THE BOTTOM OF THE UNINTERRUPTED DRAINAGE PATH. AND 6 IN. (152 MM) MINIMUM FOR VER SECURE IN PLACE WITH MASTIC, AD WHERE DRAINAGE LAYER IS USED; SHEET GOODS.</li> <li>A. ALTERNATIVELY, APPLY LIQ</li> <li>INSTALL OPTIONAL (RECOMMENDED TERMINATIONS THAT WOULD IMPED IT TO THE EXTERIOR SURFACE. SECO A. SEE 3.04-F-1 FOR ALTERNATIONS THAT WOULD IMPED IT TO THE EXTERIOR SURFACE. SECO A. SEE 3.04-F-1 FOR ALTERNATION IS IN INSTALLED OVER THE OPTIONAL BUAPPROPRIATE FASTENERS.</li> <li>INSTALL METAL LATH COMPLYING W ¼" (6 MM) OFF THE FACE OF THE SU GRECOMMENDED). REFER TO ASTM PLASTERING APPLICATIONS. SECURT THE FASTENERS IS 16 IN. (406 MM) OO.C.</li> <li>A. ALTERNATIVE: DRAINAGE LAYER ON THE FASTENERS IS 16 IN. (406 MM) OO.C.</li> <li>A. ALTERNATIVE: DRAINAGE LAYER SUBSTRATE, USING TYPE CEMENTITIOUS PLASTER WITH AT LABOVE. SCARIFY SURFACE WHILE MAD THE PLASTER SHOULD NOT EXCOMINED WITH A DRAINAGE APPLY ½" TO 1" (13 MM TO 25 MM) TH DUST-FREE SUBSTRATE, USING TYPE CEMENTITIOUS PLASTER WITH AT LABOVE. SCARIFY SURFACE WHILE MAD THE PLASTER SHOULD NOT EXCOMINED WITH A DRAINAGE APPLY ½" TO 1" (13 MM TO 25 MM) TH THE PLASTER SHOULD NOT EXCOMINED WITH A DRAINAGE AND WITH THE ASTER SHOULD NOT TAB FEET (5.5 M), AND WITH THE ADDITIONAL INFORMATIONE ARD AND ADDITIONAL INFORMATIONE ARD AND ADITIONAL INFORMATIONE ARD AND AND AND AND AND AND AN</li></ul> |

### CORROSION RESISTANT CONCRETE SCREWS (WITH 11/4" MINIMUM TRATE) OR CORROSION RESISTANT POWDER ACTUATED FASTENERS NTO SOUND SUBSTRATE) ER MANUFACTURER'S RECOMMENDATIONS FOR INSTALLATION INTO CMU

SECURE LATH SHALL HAVE SUFFICIENTLY LARGE HEADS OR ADDED VASHERS LARGE ENOUGH TO NOT PULL THROUGH THE LATH. D ON THE FACE OF RIGID INSULATION

OLLOW MANUFACTURER'S RECOMMENDATIONS FOR INSTALLATION HEET METAL: TABS II OR EQUIVALENT D PLASTIC: SPEEDYMASON OR EQUIVALENT

### ID FOAM: BRICKWEBB BY OLD MILL OR EQUIVALENT. H BY SPIDERLATH, OR EQUIVALENT. [FOR NON-FIRE-RATED TYPE V

H BONDED TO PROFILED PLASTIC DRAINAGE MEMBRANE ATH, BY DORKEN, OR EQUIVALENT. [FOR NON-FIRE-RATED TYPE V

### TERIOR WALL ASSEMBLY SYSTEM APPLIED TO CLEAN AND SOUND 5 THAT HAS COMPATIBLE COMPONENTS COMPRISED OF: LIQUID/FLUID CEMENTITIOUS PLASTER SUBSTRATE, SETTING/BONDING MORTAR, AND EMS DESIGNED SPECIFICALLY FOR ADHERED EXTERIOR MASONRY NOT APPLICABLE WHERE IT WOULD BE APPLIED DIRECTLY TO A

VALENT FLUID WRB + MASONRY VENEER MORTAR + POINTING MORTAR. USED FOR ET APPLICATIONS FLUID WRB + PREMIUM MORTAR BED + MASONRY VENEER MORTAR + R. USED IN LIEU OF STUCCO SUBSTRATES

# ER BOARD (CBB)

RDS ARE AVAILABLE THAT COME WITH RIGID POLYSTYRENE FOAM AND/OR KNESSES BONDED TO THE CEMENT BACKER BOARD AS AN OPTION TO

### TE WALL OR BACKING TO RECEIVE THIN BRICK AND REPORT ALL NON-NG BUT NOT LIMITED TO: OUT OF TOLERANCE FLATNESS, PLUMBNESS, ORT ALL PERTINENT ISSUES TO THE GENERAL CONTRACTOR PRIOR TO

R BOARD, AND STUCCO JS SUBSTANCES (FORM RELEASE, CURING COMPOUNDS, PAINT, GRAFFITI,

OVE DUST AND LAITANCE, AND ALLOW TO DRY D/ELIMINATED WHERE NEW CONSTRUCTION MAKES IN UNNECESSARY, LATH SYSTEMS ARE USED, PENDING ACCEPTANCE OF ARCHITECT AND URER.

NEER ASSEMBLY BY PROPERLY SETTING ALL PROTRUDING FASTENERS THAT HAVE PUNCHED THROUGH THE EXTERIOR SURFACE OF THE

JS MATERIALS FROM THE SURFACE OF THE SHEATHING. TO RECEIVE ADHERED THIN BRICK AS NOTED ABOVE OR BY ANY OTHER S AND METHODS THAT WILL ENSURE ADEQUATE BOND AND DURABILITY IF UBMIT PROPOSED MEANS AND METHODS FOR REVIEW AND RECEIVE ANY WORK ..

BRICK, LAYOUT (DRY) COURSING TO FILL SURFACE AND NOTE ANY SARY TO PRODUCE THE DESIRED LOOK, ELIMINATING UNITS THAT ARE WIDTH. THIS MAY REQUIRE ADJUSTING THE LOCATION OF HEAD JOINTS ) UNITS TO MAINTAIN THE DESIRED BONDING PATTERN.

TABLISHED TOLERANCES TO ACCOMMODATE BRICK TOLERANCES AND

IDING BUT NOT LIMITED TO PARTIAL BRICK UNITS AND JOINT SIZES MUST PRIOR TO INSTALLATION.

# JNEVEN SUBSTRATES

DED FOR EXTERIOR APPLICATION OVER SOMEWHAT UNEVEN SUBSTRATES ATING/UNEVEN BACK SURFACES OR THIN BRICKS THAT VARY IN

TION WITH APPROPRIATE MEANS FROM MORTAR DROPPINGS AND OTHER SONRY UNITS.

ETER OF THIN BRICK VENEER WALL ASSEMBLY, AROUND OPENINGS, AND D WITH THE WRB TO PREVENT THE MOISTURE FROM ENTERING THE MOISTURE TO THE OUTSIDE OF THE WALL. INSTALL WEEPS (WEEP E WALLS. INTEGRATED WITH THE WRB TO TRANSMIT THE MOISTURE TO . SECURE FLASHINGS WITH FASTENERS.

IEET OR ROLL GOODS OVER THE SUBSTRATE WALL, IN SHINGLE FASHION, E WALL. EACH LAYER MUST PROVIDE A COMPLETE, INDEPENDENT. THE LAPS SHOULD BE 2 IN. (51 MM) MINIMUM FOR HORIZONTAL LAPS VERTICAL LAPS. STAGGER LAPS IN EACH LAYER, IN SHINGLE FASHION. ADHESIVE OR FASTENERS. WRB MAY BE REDUCED TO A SINGLE LAYER ; INCREASE HORIZONTAL LAPS TO 3" (76 MM) FOR SINGLE LAYER WRB

IQUID OR FLUID WRB TO CLEAN, SOUND SUBSTRATE MATERIALS. ED) DRAINAGE LAYER OVER WRB. AVOID CREATING DAMS OR

EDÉ THE FLOW OF WATER AND MOISTURE OUT OF THE WALL, DIRECTING ECURE DRAINAGE LAYER WITH FASTENERS. ATIVE.

INTENDED, RIGID INSULATION SHOULD BE CHOSEN, AND IT SHOULD BE BUT RECOMMENDED DRAINAGE LAYER, SECURED IN PLACE WITH

WITH ASTM C847 ON THE SUBSTRATE MATERIAL, FURRED A MINIMUM OF SUBSTRATE MATERIAL. SELF-FURRING LATH MAY BE USED M C1063 FOR INSTALLATION OF METAL LATH FOR PORTLAND CEMENT URE LATH WITH FASTENERS. THE MAXIMUM HORIZONTAL SPACING FOR ) O.C. AND MAXIMUM VERTICAL SPACING FOR FASTENERS IS 6 IN. (152 MM)

LAYER AND LATH CAN BE PROVIDED BY PROPRIETARY SYSTEM OF LATH AGE LAYER AS NOTED IN 2.07-E.4.

THICK CEMENTITIOUS PLASTER (STUCCO) SCRATCH COAT ON CLEAN AND YPE S MORTAR. WORKING INTO LATH TO COMPLETELY EMBED LATH INTO LEAST 1/4" COVERAGE ON THE BACK OF THE LATH. MORTAR 2.02-D -1 MOIST. APPLY 3/4" TO 11/4" (19 MM TO 32 MM) THICK CEMENTITIOUS NSULATION, WHERE OCCURS.

EMENTITIOUS PLASTER (STUCCO) BOUNDED BY JOINTS OR EDGES OF DT EXCEED 144 SQ FT (13.4 SQ. M), WITH JOINT SPACING NOT TO EXCEED THE ASPECT RATIO OF AREAS BOUNDED BY JOINTS OR EDGES OF THE (CEED 1.5:1.0.

4 HOURS PRIOR TO THE APPLICATION OF SUBSEQUENT COATS. IF E PRIOR TO APPLYING THE SETTING (BONDING) MORTAR. SEE SECTION

G) MORTAR BED ONTO THE CLEAN AND DUST-FREE SUBSTRATE USING COMB USING A NOTCHED TROWEL (3/16" TO 1/4" [5 MM TO 6 MM] DEEP ETTING BED. USE TYPE S POLYMER MODIFIED MORTAR (LATEX-PORTLAND BOVE).

3.16 APPLY BRICK SETTING BED MORTAR TO THE BACK OF THE VENEER UNITS, WORKING INTO THE BACK OF THE BRICK UNIT USING THE FLAT SIDE OF A TROWEL AND COMB USING A NOTCHED TROWEL (AS ABOVE) AND PLACE THE UNIT INTO THE SETTING BED ON THE SUBSTRATE WALL. WORK THE THIN BRICK UNIT INTO PLACE BY TAPPING, OR SLIDING SLIGHTLY BACK-AND-FORTH, OR UP-AND-DOWN, OR ROTATING SLIGHTLY, UNTIL EXCESS MORTAR IS SQUEEZED OUT AT THE EDGES OF THE VENEER UNIT, COMPLETELY FILLING THE SPACE BETWEEN UNIT AND BONDING MORTAR. THE THICKNESS OF THE SETTING/BONDING MORTAR BED SHALL BE BETWEEN 3/8 IN. AND 3/4" IN (10 MM AND 19 MM) TO ACCOMMODATE VARIATIONS IN THE SUBSTRATE SURFACE, VARIATIONS IN THE BRICK, AND TO ADJUST FOR PLUMBNESS AND FLATNESS OF THE WALL. USE OF A 48-INCH-LONG STRAIGHT EDGE IS RECOMMENDED TO ENSURE A PLANAR INSTALLATION, SWEEPING OVER THE SURFACE AND HUMORING (ADJUSTING) THE BRICK AS NEEDED TO CORRECT FOR ANOMALIES.

- 3.17. LAY UNITS TO DESIRED HEIGHT WITH JOINTS OF UNIFORM THICKNESS. GROUT THE JOINTS USING TYPE N MORTAR MIX PER 2.03 ABOVE. TOOL THE JOINT WHEN THEY ARE THUMB PRINT HARD.
- 3.18 BOND SHALL BE PLUMB THROUGHOUT.
- 3.19 LAY UNITS TO AVOID FORMATION OF CRACKS WHEN UNITS ARE PLACED.
- 3.20 LAY MASONRY PLUMB, TRUE TO LINE, WITH COURSES LEVEL. KEEP BOND PATTERN PLUMB THROUGHOUT. CARE SHOULD BE TAKEN TO PRODUCE A FLAT FINISHED SURFACE WHERE UNEVEN SUBSTRATES EXIST OR WHERE THIN BRICK THICKNESSES VARY. LAY MASONRY WITHIN THE TOLERANCES OF ACI 530.1 SECTION 3.3 G.
- WHEN POSITIONS OF UNITS SHIFT AFTER MORTAR HAS STIFFENED, BOND IS BROKEN, OR CRACKS ARE 3.21 FORMED, REMOVE AND REINSTALL UNITS IN NEW MORTAR.
- AVOID LAYING UNITS WHERE THEY WOULD BRIDGE ACTIVE CRACKS OR ESTABLISHED MOVEMENT JOINTS IN 3.22 SUBSTRATE MATERIALS. CUT WHERE NECESSARY TO RESPECT JOINTING IN SUBSTRATE.
- 3.23 AVOID MORTAR STAINING ON THE UNITS DURING INSTALLATION. CLEAN ANY MORTAR SMEARING OR STAINING PROMPTLY TO REDUCE FINAL CLEANING. 3.24 ALTERNATE 1: USE A PROPRIETARY 4-PART MVIS SYSTEM (2.09-G-1-B) APPLIED TO CLEAN, SOUND

CONCRETE OR CMU SUBSTRATES, WHERE NO DRAINAGE LAYER IS REQUIRED.

# EXTERIOR THIN SET APPLICATION TO FLAT CEMENTITIOUS SUBSTRATE

THE FOLLOWING GUIDELINES ARE INTENDED FOR EXTERIOR APPLICATION OVER REASONABLY FLAT SUBSTRATES WHEN USING THIN BRICK WITH UNIFORM THICKNESS.

- 3.25 PROTECT ADJACENT CONSTRUCTION WITH APPROPRIATE MEANS FROM MORTAR DROPPINGS AND OTHER EFFECTS OF LAYING OF BRICK MASONRY UNITS.
- INSTALL FLASHING AT THE PERIMETER OF THIN BRICK VENEER WALL ASSEMBLY, AROUND OPENINGS, AND 3.26 AT BASE OF VENEER, INTEGRATED WITH THE WRB TO PREVENT THE MOISTURE FROM ENTERING THE BUILDING AND TO TRANSMIT THE MOISTURE TO THE OUTSIDE OF THE WALL, INSTALL WEEPS (WEEP SCREEDS) AT THE BOTTOM OF THE WALLS, INTEGRATED WITH THE WRB TO TRANSMIT THE MOISTURE TO THE OUTSIDE FACE OF THE WALL. SECURE FLASHINGS WITH FASTENERS.
- APPLY LIQUID/FLUID WRB MEMBRANE TO CLEAN CONCRETE SUBSTRATE SURFACES. 3.27 IF DRAINAGE LAYER IS USED, WRB MAY BE SINGLE LAYER OF SHEET OR ROLL GOODS. LAP SHEET Α. GOODS PER 3.02 C.
- 3.28 INSTALL OPTIONAL (RECOMMENDED) DRAINAGE LAYER OVER SHEET OR ROLL GOODS WRB OR LIQUID/FLUID ELASTOMERIC WRB. AVOID CREATING DAMS OR TERMINATIONS THAT WOULD IMPEDE THE FLOW OF WATER AND MOISTURE OUT OF THE WALL, DIRECTING IT TO THE EXTERIOR SURFACE. SECURE IN PLACE WITH FASTENERS.
- 3.29. WHERE EXTERIOR INSULATION IS INTENDED, RIGID INSULATION SHOULD BE CHOSEN, AND IT SHOULD BE INSTALLED OVER THE OPTIONAL BUT RECOMMENDED DRAINAGE LAYER, SECURED IN PLACE WITH APPROPRIATE FASTENERS.
- 3.20 APPLY CBB OVER WRB SHEET OR ROLL GOODS (OR LIQUID/FLUID WRB) AND OVER OPTIONAL (RECOMMENDED) DRAINAGE LAYER, AND OVER EXTERIOR RIGID INSULATION, WHERE USED. SECURE CEMENT BACKER BOARD IN PLACE WITH APPROPRIATE FASTENERS. TAPE JOINTS.
- 3.21 SPREAD BRICK SETTING (BONDING) MORTAR BED ONTO THE CLEAN AND DUST-FREE SUBSTRATE OF CONCRETE OR CMU WITH COMPATIBLE ELASTOMERIC LIQUID/FLUID WRB, OR ONTO CBB OVER WRB AND/OR OPTIONAL (RECOMMENDED) DRAINAGE LAYER, USING THE FLAT SIDE OF A TROWEL AND COMB USING A NOTCHED TROWEL (3/16" TO 1/4" [5 MM TO 6 MM] DEEP NOTCHES) TO OBTAIN AN EVEN SETTING BED. USE TYPE S POLYMER MODIFIED MORTAR (LATEX-PORTLAND CEMENT MORTAR, PER 2.02-D-2, ABOVE).
- APPLY BRICK SETTING BED (BONDING) MORTAR TO THE BACK OF THE VENEER UNITS, WORKING INTO THE 3.22 BACK OF THE BRICK UNIT USING THE FLAT SIDE OF A TROWEL AND COMB USING A NOTCHED TROWEL (AS ABOVE) AND PLACE THE UNIT INTO THE SETTING BED ON THE SUBSTRATE WALL. WORK THE THIN BRICK UNIT INTO PLACE BY TAPPING, OR SLIDING SLIGHTLY BACK-AND-FORTH, OR UP-AND-DOWN, OR ROTATING SLIGHTLY, UNTIL EXCESS MORTAR IS SQUEEZED OUT AT THE EDGES OF THE VENEER UNIT, COMPLETELY FILLING THE SPACE BETWEEN UNIT AND BONDING MORTAR; 100% COVERAGE ON THE THIN BRICK UNITS. THE THICKNESS OF THE SETTING/BONDING MORTAR BED SHALL BE BETWEEN 3/8 IN. AND 3/4" IN (10 MM AND 19 MM) TO ACCOMMODATE VARIATIONS IN THE SUBSTRATE SURFACE, VARIATIONS IN THE BRICK, AND TO ADJUST FOR PLUMBNESS AND FLATNESS OF THE WALL. USE OF A 48-INCH-LONG STRAIGHT EDGE IS RECOMMENDED TO ENSURE A PLANAR INSTALLATION. SWEEPING OVER THE SURFACE AND HUMORING (ADJUSTING) THE BRICK AS NEEDED TO CORRECT FOR ANOMALIES.
- 3.23 LAY UNITS TO DESIRED HEIGHT WITH JOINTS OF UNIFORM THICKNESS. GROUT THE JOINTS USING TYPE N MORTAR MIX PER 2.03 ABOVE. TOOL THE JOINT WHEN THEY ARE THUMB PRINT HARD.
- 3.24 BOND SHALL BE PLUMB THROUGHOUT.
- 3.25 LAY UNITS TO AVOID FORMATION OF CRACKS WHEN UNITS ARE PLACED.
- 3.26 LAY MASONRY PLUMB, TRUE TO LINE, WITH COURSES LEVEL. KEEP BOND PATTERN PLUMB THROUGHOUT LAY MASONRY WITHIN THE TOLERANCES OF ACI 530.1 SECTION 3.3 G.
- WHEN POSITIONS OF UNITS SHIFT AFTER MORTAR HAS STIFFENED, WHEN BOND IS BROKEN, OR WHEN 3.27 CRACKS ARE FORMED, REMOVE AND REINSTALL UNITS IN NEW MORTAR.
- 3.28 AVOID LAYING UNITS WHERE THEY WOULD BRIDGE ACTIVE CRACKS OR ESTABLISHED MOVEMENT JOINTS IN SUBSTRATE MATERIALS. CUT WHERE NECESSARY TO RESPECT JOINTING IN SUBSTRATE.
- 3.29 AVOID MORTAR STAINING ON THE UNITS DURING INSTALLATION. CLEAN ANY MORTAR SMEARING OR STAINING PROMPTLY TO REDUCE FINAL CLEANING.
- ALTERNATE 1: PROPRIETARY LATH SYSTEMS (2.09-F) ARE SUITABLE FOR THIS APPLICATION IN LIEU OF THE 3.30 SETTING/BONDING MORTAR APPLICATION NOTED ABOVE. APPLY OVER WRB AND OPTIONAL (RECOMMENDED) DRAINAGE LAYER, AND OVER OPTIONAL INSULATION. WHERE PROPRIETARY LATH SYSTEM HAS AN INTEGRAL DRAINAGE LAYER, ADDITIONAL DRAINAGE LAYER IS NOT NEEDED. WHERE PROPRIETARY LATH SYSTEM HAS INTEGRAL INSULATION, ADDITIONAL INSULATION MAY NOT BE NECESSARY
- ALTERNATE 2: PROPRIETARY 3-PART MVIS SYSTEMS (2.09-G-1-A) MAY BE USED WHERE NO DRAINAGE LAYER 3.31 IS REQUIRED, APPLIED OVER CONCRETE, CMU, OR OVER CBB THAT IS INSTALLED OVER (OPTIONAL) DRAINAGE AND INSULATION LAYERS.

# MORTAR JOINTS

- MAKE JOINTS STRAIGHT, CLEAN, SMOOTH, AND UNIFORM IN THICKNESS. A.
- POINTING: TOOL EXPOSED JOINTS, SLIGHTLY CONCAVE. STRIKE CONCEALED JOINTS FLUSH.
- C. TOOL JOINTS WHILE SLIGHTLY MOIST AND THUMBPRINT HARD.
- JOINT THICKNESS: MAKE VERTICAL AND HORIZONTAL JOINTS AS REQUIRED TO ACHIEVE NOMINAL DIMENSIONS ON DRAWINGS AND WITHIN TOLERANCES LISTED IN ACI 530.1 SECTION 3.3 G.
- WHERE FRESH MASONRY JOINS TOTALLY OR PARTIALLY SET MASONRY, CLEAN AND ROUGHEN SET MASONRY BEFORE LAYING NEW UNITS.

# BOND PATTERN

D.

3.32 INSTALL BRICK MASONRY UNITS IN RUNNING BOND PATTERN, UNLESS OTHERWISE INDICATED ON THE DRAWINGS.

# CUTTING BRICK MASONRY UNITS

3.32 WHEN POSSIBLE, USE FULL UNITS OF THE PROPER SIZE IN LIEU OF CUT UNITS. CUT UNITS AS REQUIRED TO FORM CHASES, OPENINGS, FOR ANCHORAGE, AND FOR OTHER Α. APPURTENANCES, AND AT ALL MOVEMENT JOINTS AND TERMINATIONS, AS REQUIRED, SO AS TO ELIMINATE UNITS BRIDGING ACROSS MOVEMENT JOINTS (OR CRACKS) IN SUBSTRATE.

| RELEASED FOR             |
|--------------------------|
| CONSTRUCTION             |
| As Noted on Plans Review |

Lee's Summit, Misso 07/03/2024

| 3.33                 | CUT AND FIT UNITS WITH POWER-DRIVEN CARBORUNDUM OR DIAMOND DISC BLADE SAW.                                                                                                                                                                                                                                                                                               |                                           |
|----------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------|
| 3.34<br>3.35         | CLEAN BACK OF UNITS AFTER CUTTING TO REMOVE DUST AND OTHER DELETERIOUS MATERIAL(S).<br>DISCARD UNITS THAT ARE DAMAGED DURING THE CUTTING PROCESS, WHICH DO NOT MEET THE                                                                                                                                                                                                  |                                           |
|                      | APPEARANCE STANDARD OF ASTM C1088.                                                                                                                                                                                                                                                                                                                                       | GA                                        |
| A.                   | ROL JOINTS / EXPANSION JOINTS<br>SIZE JOINTS TO ACCOMMODATE ANTICIPATED MOVEMENTS WITH RESPECT TO MOISTURE AND THERMAL<br>GRADIENTS IN ADDITION TO BUILDING MOVEMENTS COMMENSURATE WITH THE MOVEMENT POTENTIAL OF<br>THE JOINT MATERIAL(S).                                                                                                                              | JA                                        |
| В.                   | PROVIDE IN MASONRY WALLS WHERE INDICATED ON THE DRAWINGS.                                                                                                                                                                                                                                                                                                                |                                           |
| C.                   | MAKE FULL HEIGHT AND CONTINUOUS IN APPEARANCE.                                                                                                                                                                                                                                                                                                                           |                                           |
| D.                   | CONTROL AND EXPANSION JOINTS MUST BE CONTINUOUS THROUGH THE BACKING, UNLESS DETAILED OTHERWISE.                                                                                                                                                                                                                                                                          |                                           |
| E.<br>F.             | INSERT CONTROL JOINT FILLER IN JOINTS AS WALL IS CONSTRUCTED.<br>INSERT 50% COMPRESSIBLE ELASTOMERIC (NEOPRENE OR EQUIVALENT) EXPANSION JOINT MATERIAL IN                                                                                                                                                                                                                |                                           |
| г.                   | PROPERLY SIZED EXPANSION JOINTS.                                                                                                                                                                                                                                                                                                                                         |                                           |
| G.                   | APPLY SEALANT AS SPECIFIED.                                                                                                                                                                                                                                                                                                                                              |                                           |
| FLASH<br>3.36        | FLASHING MUST BE INSTALLED AT ALL THROUGH WALL PENETRATIONS AND AT LOWER BOUNDARIES OF                                                                                                                                                                                                                                                                                   |                                           |
| 3.37                 | THE ADHERED THIN BRICK VENEER INSTALLATIONS.<br>FLASHINGS WILL BE INTEGRATED WITH THE WRB MATERIALS TO PROVIDE EFFECTIVE CONTROL OF<br>MOISTURE EXITING THE WALL ASSEMBLY, WITH SEALED CORNERS, END DAMS AND OTHER ACCESSORIES                                                                                                                                           |                                           |
| PATCI                | AS NEEDED.                                                                                                                                                                                                                                                                                                                                                               |                                           |
| 3.38                 | PATCH EXPOSED BRICK MASONRY UNITS AT COMPLETION OF THE WORK AND IN SUCH MANNER THAT                                                                                                                                                                                                                                                                                      |                                           |
|                      | PATCHING WILL BE INDISTINGUISHABLE FROM SIMILAR SURROUNDINGS AND ADJOINING CONSTRUCTION.                                                                                                                                                                                                                                                                                 | 0                                         |
| <u>MISCE</u><br>3.39 | ELLANEOUS<br>BUILD IN REQUIRED ITEMS, SUCH AS ANCHORS, FLASHINGS, WEEP SCREEDS, SLEEVES, ELECTRICAL<br>BOXES, FRAMES, STRUCTURAL STEEL, LINTELS, ANCHOR BOLTS, AND METAL FABRICATIONS, AS REQUIRED<br>FOR COMPLETE INSTALLATION.                                                                                                                                         | #20(                                      |
| WATE                 | R REPELLENT                                                                                                                                                                                                                                                                                                                                                              |                                           |
| 3.40                 | APPLY WATER REPELLENT AS SPECIFIED, WHERE DIRECTED OR SPECIFIED ON DRAWINGS.                                                                                                                                                                                                                                                                                             |                                           |
| FIELD                | QUALITY CONTROL                                                                                                                                                                                                                                                                                                                                                          |                                           |
| 3.41                 | HAVE MINIMUM 3 MASONRY UNITS OF EACH TYPE PROPOSED FOR PROJECT TESTED IN ACCORDANCE WITH<br>ASTM C 67 TO VERIFY CONFORMANCE TO SPECIFICATIONS.                                                                                                                                                                                                                           |                                           |
| 3.42<br>3.43         | TESTS SHALL INCLUDE ABSORPTION, INITIAL RATE OF ABSORPTION AND UNIT WEIGHT.<br>EMPLOY AND PAY ACCEPTABLE INDEPENDENT TESTING LABORATORY TO PERFORM TESTING                                                                                                                                                                                                               |                                           |
| 3.43<br>3.44         | PER ASTM C 1088, AFTER BRICK ARE PLACED IN USAGE, THE MANUFACTURER OR THE MANUFACTURER'S<br>AGENT SHALL NOT BE HELD RESPONSIBLE FOR COMPLIANCE OF BRICK WITH THE REQUIREMENTS OF ASTM<br>C 1088 FOR CHIPPAGE AND TOLERANCES.                                                                                                                                             |                                           |
| CLEA                 |                                                                                                                                                                                                                                                                                                                                                                          |                                           |
| 3.45                 | EXERCISE EXTREME CARE TO PREVENT MORTAR SPLOTCHES.                                                                                                                                                                                                                                                                                                                       |                                           |
| 3.46                 | DO NOT ATTACH CONSTRUCTION SUPPORTS TO MASONRY WALLS.                                                                                                                                                                                                                                                                                                                    |                                           |
| 3.47                 | USE ONLY NEW CLEANING PRODUCTS FROM PREVIOUSLY UNOPENED AND UNTAMPERED CONTAINERS. DO<br>NOT MIX, OR CONCOCT, OR BLEND CLEANING MATERIALS UNLESS SPECIFICALLY INSTRUCTED TO DO SO BY<br>THE CLEANING MATERIAL MANUFACTURER, AND THEN ONLY UPON APPROVAL BY THE GENERAL<br>CONTRACTOR, ARCHITECT, AND OWNER.                                                              |                                           |
| 3.48                 | IDENTIFY A SUITABLE, NON-CRITICAL LOCATION, MUTUALLY ACCEPTABLE TO THE GENERAL CONTRACTOR,<br>ARCHITECT AND OWNER, TO TEST CLEANING METHODS FOR APPROVAL PRIOR TO MASS CLEANING OF THE<br>INSTALLATION.                                                                                                                                                                  | 513 MAIN ST                               |
| 3.49                 | WASH OFF BRICK SCUM AND GROUT SPILLS BEFORE SCUM AND GROUT SET.                                                                                                                                                                                                                                                                                                          | FORT WOR                                  |
| 3.50                 | REMOVE GROUT STAINS FROM WALLS USING CLEANING AGENT AND METHODS RECOMMENDED BY BRICK MANUFACTURER.                                                                                                                                                                                                                                                                       |                                           |
| 3.51                 | TEST CLEAN MASONRY IN SELECTED AREA WITH THE LEAST AGGRESSIVE METHOD POSSIBLE THAT WILL<br>ATTAIN THE DESIRED EFFECT STARTING WITH "BUCKET AND BRUSH" METHOD. APPLY CLEANING SOLUTION<br>RECOMMENDED BY BRICK MANUFACTURER IN ACCORDANCE WITH CLEANING SOLUTION MANUFACTURER'S<br>PRINTED INSTRUCTIONS AND BRICK MANUFACTURER'S RECOMMENDATIONS.                         | STATI                                     |
| 3.52                 | ONCE THE CLEANING METHOD IS ESTABLISHED AND APPROVED, PROCEED TO CLEAN THE BUILDING IN<br>TOTAL FOLLOWING ESTABLISHED PROCEDURES.                                                                                                                                                                                                                                        |                                           |
| 3.53                 | REMOVE SCAFFOLDING AND EQUIPMENT. DISPOSE OF DEBRIS, REFUSE, AND SURPLUS MATERIAL OFFSITE LEGALLY.                                                                                                                                                                                                                                                                       |                                           |
| 3.54                 | CORRECT EFFLORESCENCE ON EXPOSED SURFACES WITH COMMERCIALLY PREPARED CLEANING                                                                                                                                                                                                                                                                                            | 1 Van                                     |
|                      | MATERIALS ACCEPTABLE TO MASONRY UNIT MANUFACTURER.                                                                                                                                                                                                                                                                                                                       |                                           |
| 3.55<br>3.56         | DO NOT USE MURIATIC OR HYDROCHLORIC ACID AS CLEANING SOLUTIONS.<br>DO NOT USE ABRASIVE CLEANING EQUIPMENT OR METHODS.                                                                                                                                                                                                                                                    | PERMI                                     |
|                      | DO NOT USE ABRASIVE CLEANING EQUIPMENT OR METHODS.                                                                                                                                                                                                                                                                                                                       | CONTRAC                                   |
| 3.57                 | PROVIDE TEMPORARY PROTECTION FOR EXPOSED MASONRY CORNERS SUBJECT TO DAMAGE.                                                                                                                                                                                                                                                                                              | JOB SITE AN<br>OF ANY I                   |
| 3.58.                | BRACING:                                                                                                                                                                                                                                                                                                                                                                 | OF ANY I<br>OMISSIONS C<br>BEGINNING C    |
|                      | <ul> <li>A. ADEQUATELY BRACE MASONRY WALLS OVER 8 FEET IN HEIGHT TO PREVENT OVERTURNING AND TO<br/>PREVENT COLLAPSE UNLESS WALL IS ADEQUATELY SUPPORTED BY PERMANENT SUPPORTING<br/>ELEMENTS SO WALL WILL NOT OVERTURN OR COLLAPSE.</li> <li>B. KEEP BRACING IN PLACE UNTIL PERMANENT SUPPORTING ELEMENTS OF STRUCTURE ARE IN<br/>PLACE.</li> </ul>                      |                                           |
| 3.59                 | LIMITED ACCESS ZONE:                                                                                                                                                                                                                                                                                                                                                     |                                           |
|                      | <ul> <li>A. ESTABLISH LIMITED ACCESS ZONE PRIOR TO START OF MASONRY WALL CONSTRUCTION.</li> <li>B. ZONE SHALL BE IMMEDIATELY ADJACENT TO WALL AND EQUAL TO HEIGHT OF WALL TO BE<br/>CONSTRUCTED PLUS 4 FEET BY ENTIRE LENGTH OF WALL ON UN-SCAFFOLDED SIDE OF WALL.</li> <li>C. LIMIT ACCESS TO ZONE TO WORKERS ACTIVELY ENGAGED IN CONSTRUCTING WALL. DO NOT</li> </ul> |                                           |
|                      | PERMIT OTHER PERSONS TO ENTER ZONE.<br>D. KEEP ZONE IN PLACE UNTIL WALL IS ADEQUATELY SUPPORTED OR BRACED BY PERMANENT<br>SUPPORTING ELEMENTS TO PREVENT OVERTURNING AND COLLAPSE.                                                                                                                                                                                       |                                           |
| SEC1                 | ION 05 58 00 / METAL FABRICATION (REFER TO STRUCTURAL SET)                                                                                                                                                                                                                                                                                                               |                                           |
| 1.1                  | SUBMIT SHOP DRAWINGS COMPLYING WITH SECTION 01 33 00 FOR WORK IN THIS SECTION.<br>A. SUBMIT SHOP DRAWINGS FOR THE FABRICATION AND ERECTION OF ASSEMBLIES OF METALWORK,                                                                                                                                                                                                   |                                           |
|                      | <ul> <li>SUBMIT SHOP DRAWINGS FOR THE PADRICATION AND ERECTION OF ASSEMBLIES OF METALWORK,<br/>WHICH ARE NOT COMPLETELY SHOWN BY THE MANUFACTURER'S DATA SHEETS.</li> <li>B. INCLUDE PLANS, ELEVATIONS. AND DETAILS OF SECTIONS AND CONNECTIONS.</li> <li>C. SHOW ANCHORAGE AND ACCESSORY ITEMS.</li> </ul>                                                              | PROJECT IN<br>PROJECT NO:<br>ORIGINAL ISS |
| 1.2                  | THE EXTENT OF MISCELLANEOUS METALWORK IS SHOWN ON THE DRAWINGS AND INCLU DES ITEMS<br>FABRICATED FROM IRON AND STEEL SHAPES, PLATES, BARS, STRIPS, TUBES, PIPES AND CACTINGS WHICH<br>ARE NOT A PART OF THE STRUCTURAL STEEL OR OTHER METAL SYSTEMS.                                                                                                                     | SCALE:<br>DRAWN BY:<br>CHECKED BY:        |
| 1.3                  | COMPLY WITH THE PROVISIONS OF THE FOLLOWING:<br>A. AISC SPECIFICATIONS FOR THE DESIGN, FABRICATION AND ERECTION OF STRUCTURAL STEEL FOR<br>BUILDINGS, INCLUDING COMMENTARY OF THE AISC SPECIFICATIONS<br>AISC SPECIFICATIONS FOR THE DESIGN OF COLD FORMED STEEL STRUCTURAL MEMBERS                                                                                      | SHEET TITLE                               |

- BUILDINGS, INCLUDING COMMENTARY OF THE AISC SPECIFICATIONS AISC SPECIFICATIONS FOR THE DESIGN OF COLD FORMED STEEL STRUCTURAL MEMBERS
- AWS STRUCTURAL WELDING CODE— STEEL ASTM A 6 GENERAL REQUIREMENTS FOR DELIVERY OF ROLLED STEEL PLATES, SHAPES, SHEET

Ω  $\sim$ Ζ ഗ  $\geq$ Ŷ 200 Δ T #  $\cap$ 2  $\hat{\mathbf{O}}$ К  $\leq$ Ζ  $\Box$ ഗ 0  $\overline{}$ Q #300 IN STREET VORTH TX 76102 **STEVEN COX** NUMBER A-2023017238 ERMIT SET: 04/12/2024 ONTRACTOR SHALL VERIFY ALL DITIONS AND DIMENSIONS AT THE SITE AND NOTIFY THE ARCHITECT ANY DIMENSIONAL ERRORS, SIONS OR DISCREPANCIES BEFORE INING OR FABRICATING ANY WORK. DO NOT SCALE DRAWINGS. ATE DESCRIPTION ECT INFORMATION CT NO: 24-0087 IAL ISSUE: 06/01/2023 AS NOTED JBY P. ( J. JEFFERY KED BY:

# SPECIFICATIONS

PIPING AND BARS FOR STRUCTURAL USE WELDING PROCESSES AND WELDING OPERATORS IN ACCORDANCE WITH AWS STANDARD QUALIFICATION PROCEDURE 1.4 THE TYPES OF ITEMS INCLUDE, BUT ARE NOT LIMITED TO THE FOLLOWING: CARPENTER'S IRONWORK PIPE GUARDS

- LADDERS
- LOOSE BEARING PLATES MISCELLANEOUS FRAMING AND SUPPORTS
- MISCELLANEOUS TRIM
- ANGLE CORNER GUARDS CHANNEL DOOR FRAMES
- ANGLE JAMBS
- PLATES FOR DOORS TRELLIS
- FENCING AND GATES
- 1.5 FURNISH INSERTS AND ANCHORING DEVICES WHICH MUST BE SET IN CONCRETE OR BUILT INTO MASONRY FOR THE INSTALLATION OF THE WORK. PROVIDE SETTING DRAWINGS, TEMPLATES, INSTRUCTIONS AND DIRECTIONS FOR INSTALLATION OF AND HORAGE DEVICES.
- 1.6 PREASSEMBLE ITEMS IN THE SHOP TO THE GREATEST EXTENT POSSIBLE, SO AS TO MINIMIZE FIELD SPLICING AND ASSEMBLY OF UNITS AT THE PROJECT SITE. DISASSEMBLE UNITS ONLY TO THE EXTENT NECESSARY FOR SHIPPING AND HANDLING LIMITATIONS. CLEARLY MARK UNITS FOR REASSEMBLY.

## MATERIALS

- STEEL PLATES, SHAPES, BARS AND BAR-SIZE SHAPES: ASTM A 36. STEEL TUBING: (HOT FORMED, WELDED OR SEAMLESS): ASTM A 501.
- HOT ROLLED CARBON STEEL BARS: ASTM A 575, GRADE AS SELECTED BY FABRIC ATOR.
- COLD FINISHED STEEL BARS: ASTM A 108, GRADE AS SELECTED BY FABRICATOR. HOT ROLLED CARBON STEEL SHEETS AND STRIPS: ASTM A\_566 AND ASTM A\_569; PICKLED AND OILED.
- COLD ROLLED CARBON STEEL SHEETS: ASTM A 336.
- GALVANIZED CARBON STEEL SHEETS: ASTM A 526, WITH ASTM A 525, G90 ZINC COATING. COLD DRAWN STEEL TUBING: ASTM A\_512 SUNK DRAWN, BUTT-WELDED. COLD FINISHED AND STRESS
- RELIEVED. STEEL PIPE: ASTM A 53, TYPE AS SELECTED; GRADE A. BLACK FINISH UNLESS GALVAN IZING IS REQUI RED.
- STANDARD WEIGHT, SOHEDULE 40, UNLESS OTHERWISE SHOWN OR SPEC IFIED.

## ANCHORS

1.7 THREADED TYPE CONCRETE INSERTS: GALVANIZED FERROUS (CASTINGS, INTERNALLY THREADED TO RECEIVE 3/4" DIAMETER MACHINE BOLTS; EITHER MALLEABLE IRON (COMPLYING WITH ASTM A 47 OR CAST STEEL COMPLYING W

## SECTION 06 42 19 / THERMALLY FUSED LAMINATE PANELS

## PART 1 GENERAL

### 1.01 SECTION INCLUDES

- A. THERMALLY FUSED LAMINATE (TFL) PANELS
- B. DECORATIVE EDGEBANDING.

### 1.02 RELATED REQUIREMENTS

- A. SECTION 01 3000 SUBMITTALS. B. SECTION 06 0620 - DECORATIVE PLASTIC LAMINATE.

# PART 2 - PRODUCTS

WILSONART CONTACT INFORMATION: WILSONART, 2501 WILSON CENTER, TEMPLE, TX 76503-6110. TEL. 254.207.7000, TOLL-FREE 800.433.3222, FAX 254.207.3209. WEBSITE: WWW.WILSONART.CO

# 2.01 MANUFACTURER

A. BASIS OF DESIGN: WILSONART.

## 2.02 TFL PANEL PROPERTIES

- A. LAMINATE COMPOSITION: MELAMINE SATURATED DECORATIVE LAYERS THERMALLY FUSED TO BOTH CORE FACE SURFACES WITH HEAT AND PRESSURE. STAIN RESISTANT SURFACE WITH WEAR AND SCRATCH RESISTANCE.
- B. PANEL CORE MATERIAL: COMPOSITE PANEL PRODUCT COMPOSED PRIMARILY OF CELLULOSIC MATERIALS AND A BONDING SYSTEM, RESULTING IN A DURABLE AND
- DIMENSIONALLY STABLE SUBSTRATE SUITABLE FOR DECORATIVE LAMINATE OVERLAYS. C. SUSTAINABLE DESIGN CONFORMANCE STANDARDS:
  - a. CPA: ECO-CERTIFIED COMPOSITE (ECC) SUSTAINABILITY STANDARD. b. CPA: FORMALDEHYDE EMISSIONS GRADEMARK CERTIFICATION PROGRAM.
  - CERTIFICATION ATTESTS COMPLIANCE WITH APPLICABLE CARB ATCM LIMITATIONS.

## 2.03 TFL PANELS

- A. PRODUCT: WILSONART® THERMALLY FUSED LAMINATE PANELS.
- B. LAMINATE COMPONENT: a. LAMINATE CONFORMANCE STANDARD: ANSI/NEMA LD 3, GRADE VGL, AND ISO 4586. b. COLOR, PATTERN, AND FINISH: D354 DESIGNER WHITE, 60 MATTE.
- C. PANEL CORE MATERIAL: MEDIUM DENSITY FIBERBOARD. CONFORMANCE STANDARD: ANSI 208.2. GRADE [130, MINIMUM 45 LB. DENSITY].
  - [COMPLIANT WITH CARB ATCM.] b. PRODUCT TYPE AND THICKNESS: [TYPE 845 - 3/4 INCH]. + 0.008 INCH DIMENSIONAL
  - TOLERANCE. c. PANEL WIDTH: SEE DRAWINGS FOR DIMENSIONS. + 0.036 INCH DIMENSIONAL TOLERANCE. d. PANEL LENGTH: SEE DRAWINGS FOR DIMENSIONS. + 0.080 INCH DIMENSIONAL

## TOI FRANCE

## 2.06 DECORATIVE EDGEBANDS

- A. EDGEBAND PRODUCTS: "WILSONART® EDGEBAND.
- B. COMPOSITION: ABS/PVC EXTRUDED FABRICATION.
- C. WIDTH: EQUAL TO OR GREATER THAN PANEL THICKNESS. D. FINISH: 60 MATTE
- E. COLOR AND PATTERN: D354 DESIGNER WHITE

### 2.08 FABRICATION

- A. FABRICATE TFL PANELS IN SHOP, TO GREATEST EXTENT PRACTICABLE, IN SIZES AND SHAPES INDICATED ACCORDING TO DRAWINGS AND MANUFACTURER'S PUBLISHED FABRICATION REQUIREMENTS.
- B. COMPLETE BY SANDING ALL EDGES SMOOTH.

### PART 3 - EXECUTION

## 3.01 EXAMINATION

- A. EXAMINE SUBSTRATES AND CONDITIONS THAT COULD ADVERSELY AFFECT THE WORK OF THIS
- SECTION. B. SUBSTRATES MUST BE SOUND, FLAT, SMOOTH, AND FREE FROM DUST OR OTHER SURFACE
- CONTAMINANTS. C. COMMENCEMENT OF WORK WILL CONSTITUTE ACCEPTANCE OF EXISTING CONDITIONS AND SUBSTRATES TO RECEIVE THE WORK.

### 3.02 INSTALLATION

- APPLICABLE TO PROJECT.
- REQUIRED DURING INSTALLATION PROCESS.
- APPROVED SHOP DRAWINGS.

### 3.03 CLEANING AND PROTECTION

## SECTION 07 21 00 / THERMAL INSULATION

- WITH FIRE RESISTANCE REQUIREMENTS.

### INSTALLATION

- AN APPROVED MANNER.
- OR OTHER APPROVED METHODS.
- 1.6 AT WALL AREAS INSTALL INSULATION BETWEEN FURRING STRIPS WITH FLANGES.
- EXCEED 16" OC. STAPLE WIRES TO WOOD CHORD.
- 1.8 INSTALLATION SHALL BE PERFORMED SO THAT INSULATION WILL NOT BE DISPLACED.

# SECTION 07 24 00 / EXTERIOR INSULATION AND FINISH SYSTEMS

## DELIVERY, STORAGE, AND HANDLING

### SEQUENCING

| .2 | ENSURE THAT LOCATING TEMPLATE<br>PRODUCTS OF THIS SECTION ARE FU |
|----|------------------------------------------------------------------|
|    | OF CONSTRUCTION PROGRESS.                                        |
|    |                                                                  |

### 1.3 INTERRUPTION OF CONSTRUCTION PROGRESS.

## PROJECT CONDITIONS

1.4

### WARRANTY

| 1.5 | INSULATION WARRANTY: AT PROJEC   |
|-----|----------------------------------|
|     | MANUFACTURER'S STANDARD LIMIT    |
|     | TERMS, CONDITIONS, AND EXCLUSION |

# ALUMINUM-FACED AND COATED GLASS MAT FACED INSULATION

| 1.6 |       | MINUM-FACED, POLYISOCYANUF        |
|-----|-------|-----------------------------------|
|     | CLAS  | SS 2, RIGID, CELLULAR, POLYISC    |
|     | ALUN  | <b>MINUM FACERS ON BOTH SIDES</b> |
|     | Α.    | BASIS OF DESIGN: THERMAS          |
|     | В.    | FLAME SPREAD INDEX AND            |
|     |       | i. FLAME: 75 OR LESS              |
|     |       | ii. SMOKE: 450 OR LES             |
|     | C.    | WATER VAPOR PERMEABILI            |
|     | D.    | AIR PERMEABILITY PER ASTN         |
|     | D.    |                                   |
|     | 10000 | LESS.                             |
|     | E.    | COMPRESSIVE STRENGTH P            |
|     |       | i. 20 PSI (138 KPA).              |
|     |       | ii. 25 PSI (172 KPA).             |
|     | F.    | R-VALUE PER ASTM C518: R-         |
|     |       | THICKNESS OF 1.55 INCHES          |
|     | G.    | REQUIRED INSULATION THIC          |
|     | H.    | INSULATION SHALL BE SUITA         |
|     | 1     | EXTERIOR USAGE IN NFPA 28         |
|     |       | i. ACCEPTABLE FOR IN              |
|     |       | I. AUGLITADLETUNI                 |

EXTERIOR GYPSUM SHEATHING.

## SECTION 07 25 00 / SOUND ATTENUATION BATTS

- 1.2 TO MATCH WALL STUD WIDTH.
- 1.4 HORIZONTALLY WITH A SNUG FIT.
- 1.5
- STAPLES AND METHOD OF INSTALLATION SHALL BE IN ACCORDANCE 1.6

SECTION 07 46 46 / CEMENT PANELS

PART 1 – GENERAL

SECTION INCLUDES

RELATED SECTIONS

A. CONFORMANCE STANDARD: COMPLY WITH [AWI/AWMAC/WI AWS] [AND] [KCMA A161.1] AS

INSTALL TFL PANEL COMPONENTS PLUMB, LEVEL, AND TRUE ACCORDING TO APPROVED SHOP DRAWINGS AND MANUFACTURER'S PUBLISHED INSTALLATION INSTRUCTIONS. SHIM AS C. ATTACH TFL PANEL COMPONENTS TO SUBSTRATES AS INDICATED ON DRAWINGS AND

A. CLEAN TFL PANELS ACCORDING TO MANUFACTURER'S PUBLISHED CARE AND MAINTENANCE INSTRUCTIONS. COMPLETELY REMOVE DELETERIOUS SUBSTANCES FROM FINISHED SURFACES. REPAIR DAMAGED AND DEFECTIVE TFL PANEL COMPONENTS, WHERE POSSIBLE, TO ELIMINATE DEFECTS, INCLUDING VISUAL. WHERE NOT POSSIBLE TO REPAIR, REPLACE AFFECT TFL PANEL COMPONENTS. PROTECT COMPLETED TFL PANELS WORK FROM DAMAGE FOR REMAINDER OF CONSTRUCTION PERIOD.

1.1 INSULATION MATERIALS SHALL BE REINFORCED FOIL LAMINATE FACED FLEXIBLE FIBERGLASS BATTS OR BLANKETS CONFORMING TO ASTM C665, TYPE III, CLASS A. MATERIALS SHALL HAVE A MINIMUM THERMAL RESISTANCE (R RATING) OF 30 MINIMUM FOR ROOFS AND 21 FOR WALLS, AS SHOWN ON DRAWING. INSULATION MATERIALS SHALL BE LABELED WITH R VALUE AND MANUFACTURER'S NAME.

1.2 ADHESIVES SHALL BE OF THE TYPE RECOMMENDED BY THE INSULATION MANUFACTURER AND COMPLYING

1.3 MAINTAIN VAPOR BARRIER CONTINUOUS OVER INSULATED SURFACE. PATCH TEARS IN VAPOR BARRIER IN

1.4 CUT AND FIT INSULATION MATERIALS AROUND PIPES, CONDUITS, OUTLET BOXES, ETC., AS NECESSARY TO MAINTAIN THE INTEGRITY OF THE INSULATION. WHERE PIPES ARE INSTALLED IN SPACES TO RECEIVE INSULATION, PLACE INSULATION BETWEEN EXTERIOR WALL AND THE PIPE, COMPRESSING INSULATION AS NECESSARY. FULLY INSULATE SMALL AREAS BETWEEN CLOSELY SPACED FRAMING MEMBERS.

1.5 AT ROOF AND WALL AREAS INSTALL INSULATION BETWEEN FRAMING MEMBERS WITH VAPOR BARRIER TOWARD BUILDING INTERIOR AND FLANGES CONTINUOUSLY TIGHT AGAINST INSIDE OF FRAMING MEMBERS. SECURE INSULATION FLANGE TO FRAMING MEMBERS TO RETAIN IT IN POSITION USING STAPLES OR NAILS

1.7 AT JOIST AREAS PROVIDE WIRES AT BOTTOM CHORD TO SUPPORT INSULATION. PLACE WIRES NOT TO

METHODS OF SECURING INSULATION IN POSITION SHALL BE THE RESPONSIBILITY OF CONTRACTOR.

1.1 STORE AND HANDLE PRODUCTS PER MANUFACTURER'S INSTRUCTIONS UNTIL READY FOR INSTALLATION.

ES AND OTHER INFORMATION REQUIRED FOR INSTALLATION OF URNISHED TO AFFECTED TRADES IN TIME TO PREVENT INTERRUPTION

ENSURE THAT PRODUCTS OF THIS SECTION ARE SUPPLIED TO AFFECTED TRADES IN TIME TO PREVENT

MAINTAIN ENVIRONMENTAL CONDITIONS (TEMPERATURE, HUMIDITY, AND VENTILATION) WITHIN LIMITS RECOMMENDED BY MANUFACTURER FOR OPTIMUM RESULTS. DO NOT INSTALL PRODUCTS UNDER ENVIRONMENTAL CONDITIONS OUTSIDE MANUFACTURER'S RECOMMENDED LIMITS.

> CT CLOSEOUT, PROVIDE TO OWNER AN EXECUTED COPY OF THE ED WARRANTY AGAINST MANUFACTURING DEFECT, OUTLINING ITS ONS FROM COVERAGE.

RATE-FOAM INSULATING SHEATHING: ASTM C1289, TYPE I, CLASS 1 OR OCYANURATE THERMAL INSULATION, BONDED TO REINFORCED

SHEATH FROM RMAX. SMOKE CONTRIBUTION PER ASTM E84:

TY PER ASTM E96 DESICCANT METHOD: 0.03 PERM OR LESS. M E2178: 0.004 CFM PER SQ FT (1.2192 L PER MIN PER SQ M) OR PER ASTM D1621:

-6.0 MINIMUM AT THICKNESS OF 1 INCH (25 MM), R-10.0 MINIMUM A (39 MM) AND R-13.1 MINIMUM AT THICKNESS OF 2 INCHES (51 MM). KNESS AND R-VALUE: AS INDICATED ON THE DRAWINGS. ABLE AS CONTINUOUS EXTERIOR WALL INSULATION.

285 WALL ASSEMBLIES: NCLUSION IN NFPA 285 EXTERIOR WALL ASSEMBLIES THAT INCLUDE

1.1 PRODUCTS AS MANUFACTURED BY OWENS CORNING OR JOHNS MANVILLE, BUILDING INSULATION. SOUND ATTENUATION BATTS: NOISE BARRIER BATTS, TYPE 1, UN-FACED 3-1/2" THICK, 4" THICK OR 6" THICK

1.3 ACOUSTICAL SEALANT: EQUAL TO USG ACOUSTICAL SEALANT INSTALLATION.

PLACE SEALANT UNDER STUD TRACKS. INSTALL ACOUSTICAL INSULATION IN BETWEEN STUDS. WHERE INDICATED ON THE DRAWINGS, PROVIDE LOOSE-LAID SOUND BATTS ABOVE CEILING TILES. LAY BATTS

SOUND BATTS SHALL BE PRESSED FIRMLY IN PLACE AGAINST BACK OF GYPSUM BOARD AND STAPLED.

BATTS AND BACK SURFACE OF ONE PARTITION FACE. CONTINUITY OF BATTS SHALL BE MAINTAINED. USE FULL-LENGTH STRIPS WHERE POSSIBLE.

FIBER CEMENT LAP SIDING, PANELS, SHINGLE, TRIM, FASCIA, MOULDING, AND ACCESSORIES; JAMES HARDIE HZ10 ENGINEERED FOR CLIMATE SIDING AND HARDIE ARCHITECTURAL PANELS.

FACTORY-FINISHED FIBER CEMENT LAP SIDING, PANELS, SHINGLE, TRIM, FASCIA, MOULDING, AND ACCESSORIES; JAMES HARDIE HZ10 ENGINEERED FOR CLIMATE SIDING.

### SECTION 05 40 00 - COLD-FORMED METAL FRAMING. SECTION 06 10 00 - ROUGH CARPENTRY. SECTION 06 10 00 - ROUGH CARPENTRY.

SECTION 07 21 19 - FOAMED-IN-PLACE INSULATION.

# REFERENCES

ASTM D3359 - STANDARD TEST METHOD FOR MEASURING ADHESION BY TAPE TEST, TOOL AND TAPE.

ASTM E136 - STANDARD TEST METHOD FOR BEHAVIOR OF MATERIALS IN A VERTICAL TUBE FURNACE AT 750 DEGREES C.

## SUBMITTALS

- SUBMIT UNDER PROVISIONS OF SECTION 01 30 00 ADMINISTRATIVE REQUIREMENTS. 1.1 PRODUCT DATA: MANUFACTURER'S DATA SHEETS ON EACH PRODUCT TO BE USED, INCLUDING: PREPARATION INSTRUCTIONS AND RECOMMENDATIONS. STORAGE AND HANDLING REQUIREMENTS AND RECOMMENDATIONS. INSTALLATION METHODS.
- 1.2 SHOP DRAWINGS: PROVIDE DETAILED DRAWINGS OF ATYPICAL NON-STANDARD APPLICATIONS OF CEMENTITIOUS SIDING MATERIALS WHICH ARE OUTSIDE THE SCOPE OF THE STANDARD DETAILS AND SPECIFICATIONS PROVIDED BY THE MANUFACTURER
- 1.3 SELECTION SAMPLES: FOR EACH FINISH PRODUCT SPECIFIED, TWO COMPLETE SETS OF COLOR CHIPS REPRESENTING MANUFACTURER'S FULL RANGE OF AVAILABLE COLORS AND PATTERNS.
- VERIFICATION SAMPLES: FOR EACH FINISH PRODUCT SPECIFIED, TWO SAMPLES, MINIMUM SIZE 4 BY 6 INCHES (100 BY 150 MM), REPRESENTING ACTUAL PRODUCT, COLOR, AND PATTERNS.

## QUALITY ASSURANCE

- 1.5 INSTALLER QUALIFICATIONS: MINIMUM OF 2 YEARS' EXPERIENCE WITH INSTALLATION OF SIMILAR PRODUCTS.
- 1.6 MOCK-UP: PROVIDE A MOCK-UP FOR EVALUATION OF SURFACE PREPARATION TECHNIQUES AND APPLICATION WORKMANSHIF FINISH AREAS DESIGNATED BY ARCHITECT.

DO NOT PROCEED WITH REMAINING WORK UNTIL WORKMANSHIP, COLOR, AND SHEEN ARE APPROVED BY ARCHITECT REMODEL MOCK-UP AREA AS REQUIRED TO PRODUCE ACCEPTABLE WORK.

## DELIVERY, STORAGE, AND HANDLING

- 1.7 STORE PRODUCTS IN MANUFACTURER'S UNOPENED PACKAGING UNTIL READY FOR INSTALLATION.
- STORE SIDING ON EDGE OR LAY FLAT ON A SMOOTH LEVEL SURFACE. PROTECT EDGES AND CORNERS 1.8 FROM CHIPPING. STORE SHEETS UNDER COVER AND KEEP DRY PRIOR TO INSTALLING.
- 1.9 STORE AND DISPOSE OF SOLVENT-BASED MATERIALS, AND MATERIALS USED WITH SOLVENT-BASED MATERIALS, IN ACCORDANCE WITH REQUIREMENTS OF LOCAL AUTHORITIES HAVING JURISDICTION.

## PROJECT CONDITIONS

1.10 MAINTAIN ENVIRONMENTAL CONDITIONS (TEMPERATURE, HUMIDITY, AND VENTILATION) WITHIN LIMITS RECOMMENDED BY MANUFACTURER FOR OPTIMUM RESULTS. DO NOT INSTALL PRODUCTS UNDER ENVIRONMENTAL CONDITIONS OUTSIDE MANUFACTURER'S ABSOLUTE LIMITS.

### WARRANTY

- 1.11 PRODUCT WARRANTY: LIMITED, NON-PRO-RATED PRODUCT WARRANTY. HARDIEPLANK HZ10 LAP SIDING FOR 30 YEARS.
- 1.12 FINISH WARRANTY: LIMITED PRODUCT WARRANTY AGAINST MANUFACTURING FINISH DEFECTS. WHEN USED FOR ITS INTENDED PURPOSE, PROPERLY INSTALLED AND MAINTAINED ACCORDING TO HARDIE'S PUBLISHED INSTALLATION INSTRUCTIONS, JAMES HARDIE'S COLORPLUS FINISH WITH COLORPLUS TECHNOLOGY, FOR A PERIOD OF 15 YEARS FROM THE DATE OF PURCHASE: WILL NOT PEEL; WILL NOT CRACK; AND WILL NOT CHIP. FINISH WARRANTY INCLUDES THE COVERAGE FOR LABOR AND MATERIAL
- 1.13 WORKMANSHIP WARRANTY: APPLICATION LIMITED WARRANTY FOR 2 YEARS.

## PART 2 – PRODUCTS

## SIDING AND TRIM

- 2.1 HARDIEPLANK HZ10 LAP SIDING, HARDIEPANEL HZ10 VERTICAL SIDING, HARDIESOFFIT HZ10 PANELS AND HARDIESHINGLE HZ10 SIDING REQUIREMENT FOR MATERIALS: FIBER-CEMENT SIDING - COMPLIES WITH ASTM C 1186 TYPE A GRADE II.
  - FIBER-CEMENT SIDING COMPLIES WITH ASTM E 136 AS A NONCOMBUSTIBLE MATERIAL FIBER-CEMENT SIDING - COMPLIES WITH ASTM E 84 FLAME SPREAD INDEX = 0, SMOKE DEVELOPED INDEX = 5.
  - CAL-FIRE, FIRE ENGINEERING DIVISION BUILDING MATERIALS LISTING WILDLAND URBAN INTERFACE (WUI) LISTED PRODUCT.
  - ICC-ES EVALUATION REPORTS ESR-2290, ESR-1844, AND ESR-2273 (IBC, IRC, CBC, CRC). CITY OF LOS ANGELES, RESEARCH REPORT NO. 24862.
  - MIAMI DADE COUNTY, -NOTICE OF ACCEPTANCE -20-070.06 US DEPARTMENT OF HOUSING AND URBAN DEVELOPMENT MATERIALS RELEASE -1263.
  - CALIFORNIA DSA PA-019. CITY OF NEW YORK M EA 223-93-M.
  - FLORIDA STATE PRODUCT APPROVAL -FL13192, FL13223, AND FL13265. TEXAS DEPARTMENT OF INSURANCE PRODUCT EVALUATION EC-23.
- 2.2 ARTISAN HZ10 LAP SIDING REQUIREMENT FOR MATERIALS:

### FIBER-CEMENT SIDING - COMPLIES WITH ASTM C 1186 TYPE A GRADE II. FIBER-CEMENT SIDING - COMPLIES WITH ASTM E 136 AS A NONCOMBUSTIBLE MATERIAL

- FIBER-CEMENT SIDING COMPLIES WITH ASTM E 84 FLAME SPREAD INDEX = 0, SMOKE DEVELOPED INDEX = 5
- ICC-ES EVALUATION REPORT ESR-2290. INTERTEK PRODUCT LISTING.
- CAL-FIRE, FIRE ENGINEERING DIVISION BUILDING MATERIALS LISTING WILDLAND URBAN
- INTERFACE (WUI) LISTED PRODUCT. FLORIDA STATE PRODUCT APPROVAL FL-13192.
- MIAMI DADE COUNTY, FLORIDA NOTICE OF ACCEPTANCE -20-0730.07 TEXAS DEPARTMENT OF INSURANCE PRODUCT EVALUATION EC-55.
- MANUFACTURER'S TECHNICAL DATA SHEET.

| 2.3 | LAP | SIDING: HARDIEPLANK HZ10 LAP AS MANUFACTURED BY JAMES HARDIE BUILDING PRODUCTS, INC. |
|-----|-----|--------------------------------------------------------------------------------------|
|     | Α.  | TYPE: SELECT CEDARMILL 5-1/4 INCHES (133 MM) WITH 4 INCHES (102 MM) EXPOSURE.        |
|     | В.  | TYPE: SELECT CEDARMILL 6-1/4 INCHES (159 MM) WITH 5 INCHES (127 MM) EXPOSURE.        |

| С. | TYPE: SELECT | CEDARMILL 7 | -1/4 INCHES (1 | 84 MM) WITH | 6 INCHES (152 | MM) EXPOSURE. |
|----|--------------|-------------|----------------|-------------|---------------|---------------|
| 7  |              |             |                |             |               | MM EVPOSUBE   |

| F. | TYPE: SELECT CEDARMILL 12 INCHES (305 MM) WITH 10-3/4 INCHES (273 MM) EXPOSURE. |
|----|---------------------------------------------------------------------------------|
| E. | TYPE: SELECT CEDARMILL 9-1/4 INCHES (235 MM) WITH 8 INCHES (203 MM) EXPOSURE.   |
| D. | TTPE, SELECT GEDARMILL G-1/4 INCHES (210 MM) WITH / INCHES (1/6 MM) EAPOSURE.   |

| 2.4 | TRIM | ACCE |  |
|-----|------|------|--|

2.5 TRIM **RELEASED FOR** CONSTRUCTION s Noted on Plans Revie

|                      |                                                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                           |                              | Development Services Departm<br>Lee's Summit, Missouri<br>07/03/2024                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
|----------------------|-------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------|------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                      | A. B. C. D. L. F. G. H. I. J. K. L. M. N. O. P. Q. R. S. T. | PRODUCT: BATTEN BOARDS, 2-1/2 INCH (63 MM) WIDTH.<br>PRODUCT: 4/4 BOARDS, 3-1/2 INCH (89 MM) WIDTH.<br>PRODUCT: 4/4 BOARDS, 5-1/2 INCH (140 MM) WIDTH.<br>PRODUCT: 4/4 BOARDS, 7-1/4 INCH (184 MM) WIDTH.<br>PRODUCT: 4/4 BOARDS, 9-1/4 INCH (235 MM) WIDTH.<br>PRODUCT: 4/4 NT3 BOARDS, 3-1/2 INCH (89 MM) WIDTH.<br>PRODUCT: 4/4 NT3 BOARDS, 5-1/2 INCH (140 MM) WIDTH.<br>PRODUCT: 4/4 NT3 BOARDS, 5-1/2 INCH (140 MM) WIDTH.<br>PRODUCT: 4/4 NT3 BOARDS, 7-1/4 INCH (235 MM) WIDTH.<br>PRODUCT: 4/4 NT3 BOARDS, 9-1/4 INCH (235 MM) WIDTH.<br>PRODUCT: 4/4 NT3 BOARDS, 9-1/4 INCH (235 MM) WIDTH.<br>PRODUCT: 5/4 BOARDS, 3-1/2 INCH (89 MM) WIDTH.<br>PRODUCT: 5/4 BOARDS, 5-1/2 INCH (140 MM) WIDTH.<br>PRODUCT: 5/4 BOARDS, 5-1/2 INCH (140 MM) WIDTH.<br>PRODUCT: 5/4 BOARDS, 5-1/2 INCH (235 MM) WIDTH.<br>PRODUCT: 5/4 BOARDS, 5-1/2 INCH (140 MM) WIDTH.<br>PRODUCT: 5/4 BOARDS, 5-1/2 INCH (140 MM) WIDTH.<br>PRODUCT: 5/4 BOARDS, 5-1/2 INCH (140 MM) WIDTH.<br>PRODUCT: 5/4 NT3 BOARDS, 5-1/2 INCH (140 MM) WIDTH. | S                                         |                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| FIBER                | U.<br>V.<br>W.<br>X.<br>Y.<br>Z.<br>AA.                     | PRODUCT: 5/4 NT3 BOARDS, 11-1/4 INCH (286 MM) WIDTH.<br>TEXTURE: SMOOTH.<br>TEXTURE: RUSTIC.<br>TEXTURE: WOOD GRAINED.<br>LENGTH: 12 FEET (3658 MM).<br>THICKNESS: 3/4 INCH (19 MM).<br>THICKNESS: 1 INCH (24 MM).<br>THICKNESS: 1 INCH (24 MM).                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                           |                              | DAD<br>ED LOT 3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| FIBER                | -CEMEN                                                      | T TRIM - COMPLIES WITH ASTM E 136 AS A NONCOMBUSTIBLE MATERIAL.<br>T TRIM - COMPLIES WITH ASTM E 84 FLAME SPREAD INDEX = 0, SMOKE DEVELOPED INDEX = 5.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                           |                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| <u>FAST</u><br>2.6   |                                                             | <ul> <li>FRAMING FASTENERS:</li> <li>WOOD FRAMING: 4D COMMON CORROSION RESISTANT NAILS.</li> <li>WOOD FRAMING: 6D COMMON CORROSION RESISTANT NAILS.</li> <li>WOOD FRAMING: 8D BOX RING COMMON CORROSION RESISTANT NAILS.</li> <li>WOOD FRAMING: 0.089 INCH (2.2 MM) SHANK BY 0.221 INCH (5.6 MM) HEAD BY 2 INCHES (51 MM) CORROSION RESISTANT SIDING NAILS.</li> <li>WOOD FRAMING: 0.093 INCH (2.4 MM) SHANK BY 0.222 INCH (5.6 MM) HEAD BY 2 INCHES (51 MM) CORROSION RESISTANT SIDING NAILS.</li> <li>WOOD FRAMING: 0.093 INCH (2.4 MM) SHANK BY 0.222 INCH (5.6 MM) HEAD BY 2 INCHES (51 MM) CORROSION RESISTANT SIDING NAILS.</li> <li>WOOD FRAMING: 0.093 INCH (2.4 MM) SHANK BY 0.222 INCH (5.6 MM) HEAD BY 2-1/2 INCHES (64 MM) CORROSION RESISTANT SIDING NAILS.</li> <li>WOOD FRAMING: 0.091 INCH (2.3 MM) SHANK BY 0.221 INCH (5.6 MM) HEAD BY 1-1/2 INCHES (38 MM) CORROSION RESISTANT SIDING NAILS.</li> <li>WOOD FRAMING: 0.091 INCH (2.3 MM) SHANK BY 0.225 INCH (5.7 MM) HEAD BY 1-1/2 INCHES (38 MM) CORROSION RESISTANT SIDING NAILS.</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                           | #2001                        | <b>N CHIPMAN RO</b><br>MIT, MO 64086 PROPOSE<br>PROTOTYPE VERSION 2.00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| 2.7                  | I.<br>J.<br>K.<br>L.<br>M.                                  | WOOD FRAMING: 0.121 INCH (3 MM) SHANK BY 0.371 INCH (9.4 MM) HEAD BY 1-1/4 INCHES (32 MM)<br>CORROSION RESISTANT ROOFING NAILS.<br>WOOD FRAMING: NO. 11 GAUGE 1-1/4 INCHES (32 MM) CORROSION RESISTANT ROOFING NAILS.<br>WOOD FRAMING: NO. 11 GAUGE 1-1/2 INCHES (38 MM) CORROSION RESISTANT ROOFING NAILS.<br>WOOD FRAMING: NO. 11 GAUGE 1-3/4 INCHES (44 MM) CORROSION RESISTANT ROOFING NAILS.<br>WOOD FRAMING: 16 GAUGE 1-1/2 INCHES (38 MM) STAINLESS FINISH NAILS.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                           |                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|                      | А.<br>В.<br>С.<br>D.                                        | METAL FRAMING: 1-1/4 INCHES (32 MM) NO. 8-18 BY 0.375 INCH (9.5 MM) HEAD SELF-DRILLING,<br>CORROSION RESISTANT S-12 RIBBED BUGLEHEAD SCREWS.<br>METAL FRAMING: 1-5/8 INCHES (41 MM) NO. 8-18 BY 0.323 INCH (8.2 MM) HEAD SELF-DRILLING,<br>CORROSION RESISTANT S-12 RIBBED BUGLEHEAD SCREWS.<br>METAL FRAMING: 1 INCH (25 MM) NO. 8-18 BY 0.323 INCH (8.2 MM) HEAD SELF-DRILLING, CORROSION<br>RESISTANT RIBBED BUGLEHEAD SCREWS.<br>METAL FRAMING: 1 INCH (25 MM) NO. 8-18 BY 0.311 INCH (7.9 MM) HEAD SELF-DRILLING, CORROSION<br>RESISTANT S-12 RIBBED BUGLEHEAD SCREWS.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                           |                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| 2.8                  | E.                                                          | METAL FRAMING: 1.5 INCH (38 MM) [AGS-100] .100 INCHES BY 25 INCHES (2540 MM BY 635 MM)<br>ETANDF PIN OR EQUIVALENT PNEUMATIC FASTENER.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                           |                              | Π <sup>1</sup> α                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| 2.0                  | A.                                                          | NRY WALLS:<br>MASONRY WALLS: AERICO STUD NAIL, ET&F ASM NO144-125, 0.14 INCH (3.6 MM) SHANK BY 0.30<br>INCH (7.6 MM) HEAD BY 2 INCHES (51 MM) LONG CORROSION RESISTANT NAILS.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                           |                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| <u>FINISH</u><br>2.9 |                                                             | ORY PRIMER: PROVIDE FACTORY APPLIED UNIVERSAL PRIMER.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                           |                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| 2.9                  | A.<br>B.                                                    | PRIMER: PROVIDE FACTORY APPLIED UNIVERSAL PRIMER.<br>PRIMER: FACTORY PRIMED BY JAMES HARDIE<br>TOPCOAT: REFER TO SECTION 09 90 00 – PAINTING AND COATING AND EXTERIOR FINISH SCHEDULE.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                           | MAIN ST<br>T WORT            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| 2.10<br>2.11         | FACTO                                                       | DRY FINISH: REFER TO EXTERIOR FINISH SCHEDULE.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | SEAL                                      |                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| 2.11                 | A.<br>B.                                                    | FACTORY APPLIED FINISH BY FIBER CEMENT MANUFACTURER IN A CONTROLLED ENVIRONMENT<br>WITHIN THE FIBER CEMENT MANUFACTURER'S OWN FACILITY UTILIZING A MULTI-COAT, HEAT CURED<br>FINISH WITHIN ONE MANUFACTURING PROCESS.<br>EACH FINISH COLOR MUST HAVE DOCUMENTED COLOR MATCH TO DELTA E OF 0.5 OR BETTER<br>BETWEEN PRODUCT LINES, MANUFACTURING LOTS OR PRODUCTION RUNS AS MEASURED BY<br>PHOTOSPECTROMETER AND VERIFIED BY THIRD PARTY.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Le | STATE                        | COF MISSOURIE<br>TEVEN COX<br>NUMBER<br>-2023017238<br>RCHITECT<br>SET: 04/12/2024                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| 2.12                 |                                                             | ECTION: FACTORY APPLIED FINISH PROTECTION SUCH AS PLASTIC LAMINATE THAT IS REMOVED ONCE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                           |                              | NUMBER<br>-2023017238                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| 2.13                 |                                                             | SORIES: COMPLETE FINISHING SYSTEM INCLUDES PRE-PACKAGED TOUCH-UP KIT PROVIDED BY CEMENT MANUFACTURER. PROVIDE QUANTITIES AS RECOMMENDED BY MANUFACTURER.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                           |                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| 2.14                 | FACTO                                                       | ORY FINISH COLOR FOR TRIM, SOFFIT AND SIDING COLORS:<br>ALPINE FROST JH50-10.<br>ARCTIC WHITE JH10-20.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                           |                              | Diministration of the second s |
|                      |                                                             | AUTUMN TAN JH20-20.<br>BOOTHBAY BLUE JH70-20.<br>CHESTNUT BROWN JH80-30.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                           | PERMIT                       | SET: 04/12/2024                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|                      |                                                             | COBBLE STONE JH40-10.<br>COUNTRYLANE RED JH90-20.<br>EVENING BLUE JH70-30.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | CC                                        | ONDITIONS                    | TOR SHALL VERIFY ALL<br>AND DIMENSIONS AT THE<br>D NOTIFY THE ARCHITECT                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
|                      |                                                             | FROSTED GREEN JH60-20.<br>HARRIS CREAM JH80-10.<br>HEATHERED MOSS JH50-20.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                           | ISSIONS O                    | DIMENSIONAL ERRORS,<br>R DISCREPANCIES BEFORE<br>R FABRICATING ANY WORK.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
|                      |                                                             | IRON GRAY JH90-30.<br>KHAKI BROWN JH20-30.<br>LIGHT MIST JH70-10.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | ISSUE                                     |                              | T SCALE DRAWINGS.<br>DESCRIPTION                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
|                      |                                                             | MONTEREY TAUPE JH40-20.<br>MOUNTAIN SAGE JH50-30.<br>NAVAJO BEIGE JH30-10.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                           |                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|                      |                                                             | PARKSIDE PINE JH60-30.<br>SAIL CLOTH JH20-10.<br>SANDSTONE BEIGE JH30-20.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                           |                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|                      |                                                             | SOFT GREEN JH60-10.<br>TIMBER BARK JH40-30.<br>TRADITIONAL RED JH90-10.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                           |                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|                      |                                                             | TUSCAN GOLD JH80-20.<br>WOODLAND CREAM JH10-30.<br>WOODSTOCK BROWN JH30-30.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                           |                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|                      |                                                             | TERRA COTTA JH15-20.<br>CORAL COAST JH25-20.<br>AQUA MARINE JH35-20.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                           |                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|                      |                                                             | COOL BREEZE JH45-20.<br>PINK SAND JH55-20.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                           |                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|                      |                                                             | CUTION                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | PRO                                       | JECT NO:                     | FORMATION 24-0087                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| <u>ЕХАМ</u><br>3.1   | DO NC                                                       | T BEGIN INSTALLATION UNTIL SUBSTRATES HAVE BEEN PROPERLY PREPARED.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | SCA                                       | GINAL ISSU<br>LE:<br>.WN BY: | JE: 06/01/2023<br>AS NOTED<br>P. C                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| 3.2                  |                                                             | MING PREPARATION IS THE RESPONSIBILITY OF ANOTHER INSTALLER, NOTIFY ARCHITECT OF<br>TISFACTORY PREPARATION BEFORE PROCEEDING.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                           | CKED BY:                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| 3.3                  | COMPI<br>BARRI                                              | IAL 2 INCH BY 4 INCH (51 M BY 102 MM) WOOD FRAMING SELECTED FOR MINIMAL SHRINKAGE AND<br>LYING WITH LOCAL BUILDING CODES, INCLUDING THE USE OF WATER-RESISTIVE BARRIERS OR VAPOR<br>ERS WHERE REQUIRED. MINIMUM 1-1/2 INCHES (38 MM) FACE AND STRAIGHT, TRUE, OF UNIFORM<br>ISIONS AND PROPERLY ALIGNED.<br>INSTALL WATER-RESISTIVE BARRIERS AND CLADDINGS TO DRY SURFACES.<br>REPAIR ANY PUNCTURES OR TEARS IN THE WATER-RESISTIVE BARRIER PRIOR TO THE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                           |                              | IFICATIONS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
|                      |                                                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                           | 20                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |

|                       | INSTALLATION OF THE SIDING.<br>C. PROTECT SIDING FROM OTHER TRADES                                                                                                                                                                                                                                                 |                      | COATS HIGH QUALITY ALKALI RESISTA<br>WITHIN 90 DAYS OF INSTALLATION. FO                                                          |
|-----------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------|----------------------------------------------------------------------------------------------------------------------------------|
| 3.4                   | MINIMUM 20 GAUGE (1 MM) 3-5/8 INCH (92 MM) C-STUD 16 INCHES MAXIMUM ON CENTER OR 16 GAUGE (1.6 MM) 3-5/8 INCHES (92 MM) C-STUD 24 INCHES (610 MM) MAXIMUM ON CENTER METAL FRAMING COMPLYING WITH LOCAL BUILDING CODES, INCLUDING THE USE OF WATER-RESISTIVE BARRIERS AND/OR VAPOR                                  | 3.48                 | RECOMMENDATION AND WRITTEN APF<br>FINISH FACTORY PRIMED SIDING WITH<br>OR LATEX OR OIL BASED EXTERIOR GI                         |
|                       | BARRIERS WHERE REQUIRED. MINIMUM 1-1/2 INCHES (38 MM) FACE AND STRAIGHT, TRUE, OF UNIFORM DIMENSIONS AND PROPERLY ALIGNED.<br>A. INSTALL WATER-RESISTIVE BARRIERS AND CLADDINGS TO DRY SURFACES.                                                                                                                   | PROT                 | MANUFACTURER'S WRITTEN PRODUC                                                                                                    |
|                       | B. REPAIR ANY PUNCTURES OR TEARS IN THE WATER-RESISTIVE BARRIER PRIOR TO THE<br>INSTALLATION OF THE SIDING.                                                                                                                                                                                                        | 3.49                 | PROTECT INSTALLED PRODUCTS UNT                                                                                                   |
| <u>PREPA</u>          | C. PROTECT SIDING FROM OTHER TRADES. RATION                                                                                                                                                                                                                                                                        | 3.50                 | TOUCH-UP, REPAIR OR REPLACE DAM                                                                                                  |
| 3.5                   | CLEAN SURFACES THOROUGHLY PRIOR TO INSTALLATION.                                                                                                                                                                                                                                                                   | SEC                  | TION 07 54 23 / THERMOPLASTIC F                                                                                                  |
| 3.6                   | PREPARE SURFACES USING THE METHODS RECOMMENDED BY THE MANUFACTURER FOR ACHIEVING THE BEST RESULT FOR THE SUBSTRATE UNDER THE PROJECT CONDITIONS.                                                                                                                                                                   |                      | 1 – GENERAL                                                                                                                      |
| 3.7                   | INSTALL A WATER-RESISTIVE BARRIER IS REQUIRED IN ACCORDANCE WITH LOCAL BUILDING CODE REQUIREMENTS.                                                                                                                                                                                                                 | REFE                 | RENCES                                                                                                                           |
| 3.8<br>3.9            | THE WATER-RESISTIVE BARRIER MUST BE APPROPRIATELY INSTALLED WITH PENETRATION AND JUNCTION<br>FLASHING IN ACCORDANCE WITH LOCAL BUILDING CODE REQUIREMENTS.<br>INSTALL ENGINEERED FOR CLIMATE HARDIEWRAP WEATHER BARRIER IN ACCORDANCE WITH LOCAL                                                                   | 1.1                  | ROOFING TERMINOLOGY: REFER TO T<br>RELATED TERMS IN THIS SECTION:<br>A ASTM D 1079 "STANDARD TERI<br>B GLOSSARY OF NRCA'S "THE N |
| 3.10                  | BUILDING CODE REQUIREMENTS.                                                                                                                                                                                                                                                                                        | 1.2                  | C ROOF CONSULTANTS INSTITU<br>SHEET METAL TERMINOLOGY AND TEC                                                                    |
| 3.10                  | USE HARDIEWRAP SEAM TAPE AND JOINT AND LAPS.<br>INSTALL AND HARDIEWRAP FLASHING, HARDIEWRAP FLEX FLASHING.                                                                                                                                                                                                         | DESIG                | <b>GN CRITERIA</b>                                                                                                               |
|                       | LATION - HARDIEPLANK HZ10 LAP SIDING, ARTISAN HZ10 LAP SIDING, AND ARTISAN HZ10 LAP SIDING WITH<br>OINT SYSTEM                                                                                                                                                                                                     | 1.3                  | GENERAL: INSTALLED ROOFING MEM                                                                                                   |
| 3.12                  | INSTALL MATERIALS IN STRICT ACCORDANCE WITH MANUFACTURER'S INSTALLATION INSTRUCTIONS.                                                                                                                                                                                                                              |                      | WIND UPLIFT PRESSURES, THERMALL'<br>FAILURE.                                                                                     |
| 3.13                  | STARTING: INSTALL A MINIMUM 1/4 INCH (6 MM) THICK LATH STARTER STRIP AT THE BOTTOM COURSE OF<br>THE WALL. APPLY PLANKS HORIZONTALLY WITH MINIMUM 1-1/4 INCHES (32 MM) WIDE LAPS AT THE TOP. THE<br>BOTTOM EDGE OF THE FIRST PLANK OVERLAPS THE STARTER STRIP.                                                      | 1.4                  | MATERIAL COMPATIBILITY: ROOFING I<br>CONDITIONS OF SERVICE AND APPLIC<br>MANUFACTURER BASED ON TESTING                           |
| 3.14                  | ALLOW MINIMUM VERTICAL CLEARANCE BETWEEN THE EDGE OF SIDING AND ANY OTHER MATERIAL IN STRICT ACCORDANCE WITH THE MANUFACTURER'S INSTALLATION INSTRUCTIONS.                                                                                                                                                         | 1.5                  | INSTALLER SHALL COMPLY WITH CURI<br>JURISDICTION.                                                                                |
| 3.15                  | ALIGN VERTICAL JOINTS OF THE PLANKS OVER FRAMING MEMBERS.                                                                                                                                                                                                                                                          | 1.6                  | WIND UPLIFT PERFORMANCE: ROOFIN<br>SUCCESSFULLY TESTED BY A QUALIFI                                                              |
| 3.16                  | BUTT JOINTS MUST NOT FALL WITHIN 4 INCHES (102 MM) OF A STUD. DO NOT NAIL WITHIN 2 INCHES (51 MM) OF THE END OF PLANKS.                                                                                                                                                                                            | 1.7                  | PRESSURE CALCULATED IN ACCORDA<br>FMG LISTING: ROOFING MEMBRANE, E                                                               |
| 3.17                  | MAINTAIN CLEARANCE BETWEEN SIDING AND ADJACENT FINISHED GRADE.                                                                                                                                                                                                                                                     |                      | REQUIREMENTS IN FMG 4450 AND FMG<br>FMG'S "ROOFNAV" FOR CLASS 1 OR NO<br>MATERIALS WITH FMG MARKINGS.                            |
| 3.18                  | LOCATE SPLICES AT LEAST ONE STUD CAVITY AWAY FROM WINDOW AND DOOR OPENINGS.                                                                                                                                                                                                                                        |                      | A. ROOFING SYSTEM SHALL COM<br>B. FIRE/WINDSTORM CLASSIFICA                                                                      |
| 3.19                  | FOR PROPER FASTENER SELECTION AND FASTENING SCHEDULES FOR VARIOUS WIND LOAD<br>REQUIREMENTS AND FRAMING OPTIONS, REFER TO THE TECHNICAL DATA SHEET AT<br>WWW.ASPYREDESIGN.COM.                                                                                                                                     | 1.8                  | C. HAIL RESISTANCE: [MH] [SH][V<br>FIRE-TEST-RESPONSE CHARACTERIST                                                               |
| 3.20                  | FACE NAIL TO SHEATHING.                                                                                                                                                                                                                                                                                            |                      | CHARACTERISTICS INDICATED AS DET<br>BELOW BY UL, FMG, OR ANOTHER TES                                                             |
| 3.21                  | LOCATE SPLICES AT LEAST 12 INCHES (305 MM) AWAY FROM WINDOW AND DOOR OPENINGS.                                                                                                                                                                                                                                     |                      | HAVING JURISDICTION. MATERIALS SE<br>TESTING AND INSPECTING AGENCY.<br>A. EXTERIOR FIRE-TEST EXPOSU                              |
| <u>INSTAL</u><br>3.22 | LATION - HARDIE ARCHITECTURAL PANELS<br>INSTALL MATERIALS IN STRICT ACCORDANCE WITH MANUFACTURER'S INSTALLATION INSTRUCTIONS.                                                                                                                                                                                      |                      | INDICATED.                                                                                                                       |
| 3.23                  | INSTALL OVER BRACED WOOD. SEE GENERAL FASTENING REQUIREMENTS. IRREGULARITIES IN FRAMING<br>AND SHEATHING CAN MIRROR THROUGH THE FINISHED APPLICATION. CORRECT IRREGULARITIES BEFORE<br>INSTALLING SIDING.                                                                                                          | <u>00AL</u><br>1.9   | INSTALLER QUALIFICATIONS: QUALIFI<br>SYSTEM MANUFACTURER TO INSTALL<br>SPECIFIED MANUFACTURER'S GUARAI                           |
| 3.24                  | A WATER-RESISTIVE BARRIER (WRB) IS REQUIRED IN ACCORDANCE WITH LOCAL BUILDING CODE<br>REQUIREMENTS. THE WATER-RESISTIVE BARRIER MUST BE APPROPRIATELY INSTALLED WITH                                                                                                                                               | 1.10                 | MANUFACTURER QUALIFICATIONS: QI<br>HAS [UL LISTING] OR ACCREDITED TES                                                            |
|                       | PENETRATION AND JUNCTION FLASHING IN ACCORDANCE WITH LOCAL BUILDING CODE REQUIREMENTS.<br>JAMES HARDIE WILL ASSUME NO RESPONSIBILITY FOR WATER INFILTRATION. JAMES HARDIE DOES<br>MANUFACTURE HARDIEWRAP WEATHER BARRIER, A NON-WOVEN NON-PERFORATED HOUSEWRAP, WHICH<br>COMPLIES WITH BUILDING CODE REQUIREMENTS. | 1.11                 | TESTING AGENCY QUALIFICATIONS: A<br>CAPABILITY TO CONDUCT THE TESTING                                                            |
| 3.25                  | WHEN INSTALLING HORIZONTALLY, A WRB WITH MIN. 90 PERCENT DRAINAGE EFFICIENCY SHALL BE USED.                                                                                                                                                                                                                        | 1.12                 | TEST REPORTS:                                                                                                                    |
| 3.26                  | ADJACENT FINISHED GRADE MUST SLOPE AWAY FROM THE BUILDING IN ACCORDANCE WITH LOCAL<br>BUILDING CODES - TYPICALLY A MINIMUM OF 6 IN. IN THE FIRST 10 FT.                                                                                                                                                            |                      | <ul> <li>A. ROOF DRAIN AND LEADER TES</li> <li>B. CORE CUT, IF REQUIRED.</li> <li>C. ROOF DECK FASTENER PULLO</li> </ul>         |
| 3.27                  | DO NOT USE HARDIE ARCHITECTURAL PANELS IN FASCIA OR TRIM APPLICATIONS.                                                                                                                                                                                                                                             | 1.13                 | MOISTURE SURVEY, IF REQUIRED:<br>A. SUBMIT PRIOR TO INSTALLATI                                                                   |
| 3.28<br>3.30          | DO NOT INSTALL THAT PRODUCT REMAINS IN CONTACT WITH STANDING WATER.                                                                                                                                                                                                                                                |                      | SYSTEM COMPLETED BY APPF<br>i. INFRARED THERMOGE                                                                                 |
| 3.31                  | FOR LARGER PROJECTS WHERE THE SPAN OF THE WALL IS SIGNIFICANT IN LENGTH, THE DESIGNER<br>AND/OR ARCHITECT SHOULD TAKE INTO CONSIDERATION THE COEFFICIENT OF THERMAL EXPANSION AND                                                                                                                                  | 1.14                 | ii. NUCLEAR BACKSCATT<br>SOURCE LIMITATIONS: OBTAIN ALL CO<br>GUARANTEEING THE ROOFING SYSTE                                     |
|                       | MOISTURE MOVEMENT OF THE PRODUCT IN THEIR DESIGN. THESE VALUES CAN BE FOUND IN THE<br>TECHNICAL BULLETIN "EXPANSION CHARACTERISTICS OF JAMES HARDIE SIDING PRODUCTS" AT<br>WWW.JAMESHARDIE.COM.                                                                                                                    |                      | SINGLE SOURCE ROOFING MANUFACT                                                                                                   |
| 3.32                  | JAMES HARDIE BUILDING PRODUCTS PROVIDES INSTALLATION /WIND LOAD INFORMATION FOR BUILDINGS<br>WITH A MAXIMUM MEAN ROOF HEIGHT OF 85 FEET. FOR INFORMATION ON INSTALLATIONS ABOVE 60 FEET,<br>PLEASE CONTACT JH TECHNICAL SUPPORT.                                                                                   | <u>DELIV</u><br>1.15 | DELIVER ROOFING MATERIALS IN ORIG<br>MANUFACTURER'S NAME, PRODUCT B<br>FOR STORAGE.                                              |
|                       | MINIMUM STANDARD PANEL DESIGN SIZE IS 12 X 16 INCHES (). PANELS MAY BE NOTCHED AND CUT TO SIZE TO FIT BETWEEN WINDOWS, DOORS, CORNERS, ETC.                                                                                                                                                                        | 1.16                 | STORE LIQUID MATERIALS IN THEIR OF                                                                                               |
| INSTAL                | LATION - HARDIETRIM HZ10 BOARDS                                                                                                                                                                                                                                                                                    | 1.17                 | PROTECT ROOF INSULATION MATERIA                                                                                                  |
| 3.34                  | INSTALL MATERIALS IN STRICT ACCORDANCE WITH MANUFACTURER'S INSTALLATION INSTRUCTIONS.<br>INSTALL FLASHING AROUND ALL WALL OPENINGS.                                                                                                                                                                                |                      | SUNLIGHT, MOISTURE, SOILING, AND C<br>WRITTEN INSTRUCTIONS FOR HANDLII                                                           |
| 3.35                  | FASTEN THROUGH TRIM INTO STRUCTURAL FRAMING OR CODE COMPLYING SHEATHING. FASTENERS MUST<br>PENETRATE MINIMUM 3/4 INCH (19 MM) OR FULL THICKNESS OF SHEATHING. ADDITIONAL FASTENERS MAY<br>BE REQUIRED TO ENSURE ADEQUATE SECURITY.                                                                                 | 1.18<br><u>PROJ</u>  | HANDLE AND STORE ROOFING MATER<br>DEFLECTION OF DECK.<br>ECT CONDITIONS                                                          |
| 3.36                  | PLACE FASTENERS NO CLOSER THAN 3/4 INCH (19 MM) AND NO FURTHER THAN 2 INCHES (51 MM) FROM SIDE EDGE OF TRIM BOARD AND NO CLOSER THAN 1 INCH (25 MM) FROM END. FASTEN MAXIMUM 16 INCHES (406 MM) ON CENTER.                                                                                                         | 1.19                 | WEATHER LIMITATIONS: PROCEED WI<br>CONDITIONS PERMIT ROOFING SYSTE<br>WRITTEN INSTRUCTIONS AND GUARAN                            |
| 3.37<br>3.38          | MAINTAIN CLEARANCE BETWEEN TRIM AND ADJACENT FINISHED GRADE.<br>TRIM INSIDE CORNER WITH A SINGLE BOARD TRIM BOTH SIDE OF CORNER.                                                                                                                                                                                   | PART                 | 2 – PRODUCTS                                                                                                                     |
| 3.39                  | OUTSIDE CORNER BOARD ATTACH TRIM ON BOTH SIDES OF CORNER WITH 16 GAGE CORROSION                                                                                                                                                                                                                                    | THER                 | MOPLASTIC POLYOLEFIN ROOFING MEM                                                                                                 |
|                       | RESISTANT FINISH NAIL 1/2 INCH (13 MM) FROM EDGE SPACED 16 INCHES (406 MM) APART, WEATHER CUT<br>EACH END SPACED MINIMUM 12 INCHES (305 MM) APART.                                                                                                                                                                 | 2.1                  | FABRIC-REINFORCED THERMOPLASTI                                                                                                   |
| 3.40                  | ALLOW 1/8 INCH GAP BETWEEN TRIM AND SIDING.                                                                                                                                                                                                                                                                        |                      | FORMED FROM A THERMOPLASTIC PO<br>DESIGN: JM TPO<br>A. MEMBRANE THICKNESS: 60MIL                                                 |
| 3.41<br>3.42          | SEAL GAP WITH HIGH QUALITY, PAINT-ABLE CAULK.<br>SHIM FRIEZE BOARD AS REQUIRED TO ALIGN WITH CORNER TRIM.                                                                                                                                                                                                          | 2.2                  | B. 3EXPOSED FACE COLOR: [WHI<br>SELF-ADHERED MEMBRANE THICKNES                                                                   |
| 3.43                  | FASTEN THROUGH OVERLAPPING BOARDS. DO NOT NAIL BETWEEN LAP JOINTS.                                                                                                                                                                                                                                                 | 2.2                  | A. EXPOSED FACE COLOR: WHITI<br>B. SERVICEABLE INSTALLATION                                                                      |
| 3.44                  | OVERLAY SIDING WITH SINGLE BOARD OF OUTSIDE CORNER BOARD THEN ALIGN SECOND CORNER BOARD<br>TO OUTSIDE EDGE OF FIRST CORNER BOARD. DO NOT FASTEN HARDIETRIM BOARDS TO HARDIETRIM<br>BOARDS.                                                                                                                         | <u>AUXIL</u><br>2.3  | JARY ROOFING MATERIALS – SINGLE PL<br>GENERAL: AUXILIARY MATERIALS REC                                                           |
| 3.45                  | SHIM FRIEZE BOARD AS REQUIRED TO ALIGN WITH CORNER TRIM.                                                                                                                                                                                                                                                           |                      | USE AND COMPATIBLE WITH MEMBRAI<br>A. LIQUID-TYPE AUXILIARY MATE<br>JURISDICTION.                                                |
| 3.46<br><u>FINISH</u> | INSTALL HARDIETRIM FASCIA BOARDS TO RAFTER TAILS OR TO SUB FASCIA.                                                                                                                                                                                                                                                 | 2.4                  | SHEET FLASHING: MANUFACTURER'S                                                                                                   |
|                       | FINISH UNPRIMED SIDING WITH A MINIMUM ONE COAT HIGH QUALITY, ALKALI RESISTANT PRIMER AND ONE                                                                                                                                                                                                                       |                      | DESIGN: JM TPO 60 MIL                                                                                                            |
| 3.47                  | COAT OF EITHER, 100 PERCENT ACRYLIC OR LATEX OR OIL BASED, EXTERIOR GRADE TOPCOATS OR TWO                                                                                                                                                                                                                          | 2.5                  | SHEET FLASHING (SELF-ADHERED); 6                                                                                                 |

| RESISTANT 100 PERCENT ACRYLIC OR LATEX, EXTERIOR GRADE TOPCOAT<br>TION. FOLLOW PAINT MANUFACTURER'S WRITTEN PRODUCT<br>TEN APPLICATION INSTRUCTIONS.                                                                                                                   |                     | AND SELF-ADHERING CAPABILITIES IN A WIDE INSTALLATION TEMPERATURE RANGE. BASIS OF DESIGN: JM<br>TPO SA – FLASHING MEMBRANE<br>A. SERVICEABLE INSTALLATION SUBSTRATE TEMPERATURE: 20°F (-7°C) AND RISING.                                                                                                                                                                                                          |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| NG WITH A MINIMUM OF ONE COAT OF HIGH QUALITY 100 PERCENT ACRYLIC<br>ERIOR GRADE PAINT WITHIN 180 DAYS OF INSTALLATION. FOLLOW PAINT<br>PRODUCT RECOMMENDATION AND WRITTEN APPLICATION INSTRUCTIONS.                                                                   | 2.6                 | BONDING ADHESIVE: MANUFACTURER'S STANDARD [SOLVENT] [WATER]-BASED BONDING ADHESIVE FOR<br>MEMBRANE, AND [SOLVENT] [WATER]-BASED BONDING ADHESIVE FOR BASE FLASHINGS. BASIS OF DESIGN:<br>[JM MEMBRANE BONDING ADHESIVE (TPO&EPDM)] [JM LVOC MEMBRANE ADHESIVE (TPO & EPDM)] [JM TPO<br>WATER BASED MEMBRANE ADHESIVE] [JM TPO 1168 MEMBRANE ADHESIVE] [JM ALL SEASON SPRAYABLE<br>BONDING ADHESIVE]               |
| CTS UNTIL COMPLETION OF PROJECT.                                                                                                                                                                                                                                       |                     | 1. SERVICEABLE INSTALLATION AMBIENT AIR TEMPERATURE: 25°F AND RISING                                                                                                                                                                                                                                                                                                                                              |
| CE DAMAGED PRODUCTS BEFORE SUBSTANTIAL COMPLETION.                                                                                                                                                                                                                     | 2.7                 | FLASHING ADHESIVE: MANUFACTURER'S STANDARD-[SOLVENT] [WATER] - BASED BONDING ADHESIVE FOR<br>BASE FLASHINGS. BASIS OF DESIGN: [JM MEMBRANE BONDING ADHESIVE (TPO&EPDM)] [JM LVOC<br>MEMBRANE ADHESIVE (TPO & EPDM)] [JM TPO WATER BASED MEMBRANE ADHESIVE] [JM TPO 1168<br>MEMBRANE ADHESIVE] [JM ALL SEASON SPRAYABLE BONDING ADHESIVE]<br>1. SERVICEABLE INSTALLATION AMBIENT AIR TEMPERATURE: 25°F AND RISING. |
| ASTIC POLYOLEFIN (TPO) MEMBRANE ROOFING                                                                                                                                                                                                                                | 2.8                 | URETHANE ADHESIVE: MANUFACTURER'S TWO COMPONENT NO VOC URETHANE ADHESIVE FORMULATED<br>TO ADHERE FLEECE-BACKED MEMBRANE TO SUBSTRATE. BASIS OF DESIGN: ROOFING SYSTEMS<br>URETHANE ADHESIVE (RSUA)                                                                                                                                                                                                                |
| FER TO THE FOLLOWING PUBLICATIONS FOR DEFINITIONS OF ROOFING WORK<br>TION:                                                                                                                                                                                             | 2.9                 | URETHANE ADHESIVE: MANUFACTURER'S SELF-CONTAINED TWO-PART, LOW-RISE FOAM ADHESIVE<br>FORMULATED TO ADHERE FLEECE-BACKED MEMBRANES TO SUBSTRATE. BASIS OF DESIGN: JM TWO-PART<br>URETHANE INSULATION ADHESIVE CANISTER                                                                                                                                                                                             |
| INN.<br>RD TERMINOLOGY RELATING TO ROOFING AND WATERPROOFING."<br>S "THE NRCA ROOFING AND WATERPROOFING MANUAL."<br>INSTITUTE "GLOSSARY OF BUILDING ENVELOPE TERMS."                                                                                                   | 2.10                | SELF-ADHERED PRIMER: ONE-PART PENETRATING PRIMER SOLUTION TO ENHANCE THE ADHESION OF SELF-<br>ADHERING MEMBRANES. BASIS OF DESIGN: [SA PRIMER] [SA PRIMER LOW VOC]                                                                                                                                                                                                                                                |
| AND TECHNIQUES: SMACNA "ARCHITECTURAL SHEET METAL MANUAL."                                                                                                                                                                                                             | 2.11                | ROOFING ASPHALT: ASTM D 312-15, TYPE IV                                                                                                                                                                                                                                                                                                                                                                           |
|                                                                                                                                                                                                                                                                        | 2.12                | LIQUID APPLIED FLASHING: MANUFACTURER'S SINGLE PLY LIQUID AND FABRIC REINFORCED FLASHING<br>SYSTEM CREATED WITH A FLEECE POLYESTER SCRIM AND A TWO-COMPONENT POLYURETHANE-BASED<br>LIQUID APPLIED FLASHING MATERIAL, CONSISTING OF A LIQUID RESIN AND A CURING AGENT. BASIS OF<br>DESIGN: JM SP LIQUID FLASHING RESIN AND JM SP LIQUID FLASHING SCRIM                                                             |
| NG MEMBRANE SYSTEM SHALL REMAIN WATERTIGHT; AND RESIST SPECIFIED<br>ERMALLY INDUCED MOVEMENT, AND EXPOSURE TO WEATHER WITHOUT                                                                                                                                          | 2.13                | LIQUID APPLIED FLASHING PRIMER: MANUFACTURER'S SINGLE PLY LIQUID FLASHING PRIMER. BASIS OF<br>DESIGN: JM SP LIQUID FLASHING TPO AND PVC PRIMER, JM SP LIQUID FLASHING CONCRETE PRIMER, OR JM<br>SP LIQUID FLASHING METAL AND WOOD PRIMER                                                                                                                                                                          |
| DOFING MATERIALS SHALL BE COMPATIBLE WITH ONE ANOTHER UNDER<br>APPLICATION REQUIRED, AS DEMONSTRATED BY ROOFING SYSTEM<br>ESTING AND FIELD EXPERIENCE.                                                                                                                 | 2.14                | SF LIGOID FLASHING METAL AND WOOD FRIMER<br>SLIP SHEET: MANUFACTURER'S RECOMMENDED SLIP SHEET, OF TYPE REQUIRED FOR APPLICATION. BASIS<br>OF DESIGN: [JM 3 –OZ POLYESTER SLIPSHEET] [ JM POLYESTER MAT PROTECTION SLIPSHEET]                                                                                                                                                                                      |
| ITH CURRENT CODE REQUIREMENTS BASED ON AUTHORITY HAVING                                                                                                                                                                                                                | 2.15                | METAL TERMINATION BARS: MANUFACTURER'S STANDARD PREDRILLED STAINLESS-STEEL OR ALUMINUM<br>BARS, WITH ANCHORS. BASIS OF DESIGN: JM TERMINATION SYSTEMS                                                                                                                                                                                                                                                             |
| ROOFING SYSTEM SHALL MEET THE INTENT OF SYSTEMS THAT HAVE BEEN<br>QUALIFIED TESTING AND INSPECTING AGENCY TO RESIST WIND UPLIFT<br>CCORDANCE WITH ASCE 7.                                                                                                              | 2.16                | FASTENERS: FACTORY-COATED STEEL FASTENERS AND METAL PLATES MEETING CORROSION-RESISTANCE<br>PROVISIONS IN FMG 4470, DESIGNED FOR FASTENING MEMBRANE TO SUBSTRATE, AND ACCEPTABLE TO<br>MEMBRANE ROOFING SYSTEM MANUFACTURER. BASIS OF DESIGN: [HIGH LOAD FASTENERS AND PLATES]                                                                                                                                     |
| BRANE, BASE FLASHINGS, AND COMPONENT MATERIALS SHALL COMPLY WITH<br>AND FMG 4470 AS PART OF A ROOFING SYSTEM AND THAT ARE LISTED IN<br>\$ 1 OR NONCOMBUSTIBLE CONSTRUCTION, AS APPLICABLE. IDENTIFY                                                                    | 2.17                | [EXTRA HIGH LOAD FASTENERS AND PLATES] [JM PURLIN FASTENERS] [ALL PURPOSE FASTENERS AND HIGH<br>LOAD PLATES]<br>POLYMER FASTENERS: GLASS-REINFORCED NYLON FASTENERS WITH ½" SQUARE DRIVE AND 1" HEAD WITH                                                                                                                                                                                                         |
| NGS.<br>ALL COMPLY WITH ROOFNAV #:<br>ASSIFICATION: CLASS [1][NC]A-INSERT NUMBER<br>H] [SH][VSH].                                                                                                                                                                      | 2.42                | GALVALUME®*-COATED 2" METAL STRESS PLATES, DESIGNED TO LOCK INTO THE FASTENER HEAD.<br>FASTENERS DESIGNED FOR FASTENING ROOF INSULATION TO SUBSTRATE AND FURNISHED BY ROOFING<br>SYSTEM MANUFACTURER. BASIS OF DESIGN: POLYMER AUGER FASTENERS AND PLATES                                                                                                                                                         |
| CTERISTICS: PROVIDE ROOFING MATERIALS WITH THE FIRE-TEST-RESPONSE<br>O AS DETERMINED BY TESTING IDENTICAL PRODUCTS PER TEST METHOD<br>HER TESTING AND INSPECTING AGENCY ACCEPTABLE TO AUTHORITIES<br>RIALS SHALL BE IDENTIFIED WITH APPROPRIATE MARKINGS OF APPLICABLE | 2.18                | INDUCTION WELDING PLATE: A ROUND SPECIALLY COATED GALVALUME® PLATE WITH A RECESSED CENTER<br>AND RAISED FLAT BONDING SURFACE SPECIFICALLY DESIGNED FOR INDUCTION WELDING APPLICATION.<br>BASIS OF DESIGN: JM TPO RHINOPLATES<br>MISCELLANEOUS ACCESSORIES: PROVIDE ALL ACCESSORIES TO MEET THE ROOFING MANUFACTURER'S                                                                                             |
| ENCY.<br>EXPOSURE: CLASS [A] [B] [C]; UL 790, FOR APPLICATION AND ROOF SLOPES                                                                                                                                                                                          |                     | GUARANTEE REQUIREMENTS.                                                                                                                                                                                                                                                                                                                                                                                           |
|                                                                                                                                                                                                                                                                        |                     | WAYS AND SAFETY STRIPS                                                                                                                                                                                                                                                                                                                                                                                            |
| QUALIFIED FIRM THAT IS APPROVED, AUTHORIZED, OR LICENSED BY ROOFING<br>INSTALL MANUFACTURER'S PRODUCT AND WHO IS ELIGIBLE TO RECEIVE THE                                                                                                                               | 2.20                | FLEXIBLE WALKWAYS: FACTORY-FORMED, NONPOROUS, HEAVY-DUTY, SLIP-RESISTING, SURFACE-<br>TEXTURED WALKWAY PADS SOURCED FROM MEMBRANE ROOFING SYSTEM MANUFACTURER. BASIS OF<br>DESIGN: [JM TPO WALKPAD] [JM TPO SAFETY WALKPAD]                                                                                                                                                                                       |
| GUARANTEE.<br>ONS: QUALIFIED DOMESTIC U.S. OWNED AND BASED MANUFACTURER THAT<br>TED TESTING AGENCY LISTING FOR ROOFING SYSTEM IDENTICAL TO THAT                                                                                                                        | 2.21                | SAFETY STRIPS: MANUFACTURER'S MINIMUM 65 MILS TOTAL THICKNESS, COMPRISE OF 30 MIL YELLOW<br>NON-REINFORCED TPO MEMBRANE LAMINATED TO 35 MIL WHITE CURED SEAMING TAPE. BASIS OF DESIGN:<br>JM SINGLE PLY SAFETY STRIP<br>1. EXPOSED FACE COLOR: YELLOW                                                                                                                                                             |
| TIONS: AN INDEPENDENT TESTING AGENCY WITH THE EXPERIENCE AND<br>E TESTING INDICATED, AS DOCUMENTED ACCORDING TO ASTM E 329.                                                                                                                                            | <u>COVE</u><br>2.22 | R BOARD<br>POLYISOCYANURATE BOARD: ASTM C 1289, TYPE II, CLASS [1] [2], GRADE [2 (20 PSI)] [3 (25 PSI)],                                                                                                                                                                                                                                                                                                          |
| DER TEST OR SUBMIT PLUMBER'S VERIFICATION.                                                                                                                                                                                                                             |                     | POLYISOCYANURATE BONDED IN-LINE TO [FIBER GLASS REINFORCED] [INORGANIC COATED GLASS] FACER.<br>BASIS OF DESIGN: [SEPARATOR] [SEPARATOR CGF]                                                                                                                                                                                                                                                                       |
| ED.<br>R PULLOUT TEST, IF REQUIRED.                                                                                                                                                                                                                                    | 2.23                | PERLITE BOARD: ASTM C 728, TYPE 3; COMPOSED OF EXPANDED PERLITE, CELLULOSIC FIBERS, BINDERS<br>AND WATERPROOFING AGENTS WITH TOP SURFACE SEAL COATED. BASIS OF DESIGN: RETROPLUS ROOF                                                                                                                                                                                                                             |
| RED:<br>ITALLATION, RESULTS OF A NON-DESTRUCTIVE MOISTURE TEST OF ROOF<br>BY APPROVED THIRD PARTY. UTILIZE ONE OF THE APPROVED METHODS:<br>ERMOGRAPHY<br>CKSCATTER                                                                                                     | 2.24                | BOARD.<br>HIGH-DENSITY POLYISOCYANURATE: ASTM C 1289, TYPE II, CLASS 4, GRADE 1, HIGH-DENSITY<br>POLYISOCYANURATE TECHNOLOGY BONDED IN-LINE TO INORGANIC COATED GLASS FACERS WITH<br>GREATER THAN 80 LBS OF COMPRESSIVE STRENGTH. BASIS OF DESIGN: PROTECTOR HD<br>A. THICKNESS: 1/2 INCH (13 MM)                                                                                                                 |
| N ALL COMPONENTS FROM THE SINGLE SOURCE ROOFING MANUFACTURER<br>3 SYSTEM. ALL PRODUCTS USED IN THE SYSTEM SHALL BE LABELED BY THE<br>NUFACTURER ISSUING THE GUARANTEE                                                                                                  | 2.25                | B. R-VALUE: 2.5<br>GYPSUM BOARD: ASTM C 1177, COATED GLASS-MAT FACER, WATER-RESISTANT GYPSUM SUBSTRATE FOR<br>MECHANICALLY ATTACHED ROOF APPLICATIONS, [1/4 INCH (6 MM)] [1/2 INCH (13 MM)] [5/8 INCH (16 MM)]<br>THICK. BASIS OF DESIGN: [SECUROCK ULTRALIGHT GLASS-MAT ROOF BOARD] [DEXCELL GLASS MAT ROOF                                                                                                      |
| S IN ORIGINAL CONTAINERS WITH SEALS UNBROKEN AND LABELED WITH<br>DDUCT BRAND NAME AND TYPE, DATE OF MANUFACTURE, AND DIRECTIONS                                                                                                                                        | 2.26                | BOARD] [DENS DECK ROOF BOARD]<br>GYPSUM BOARD: ASTM C 1177, HEAVY DUTY COATED GLASS-MAT FACER [WITH EONIC PRIMED FACE],<br>WATER-RESISTANT GYPSUM SUBSTRATE FOR ADHERED ROOF APPLICATIONS, [1/4 INCH (6 MM)] [1/2 INCH (13<br>MM)] [5/8 INCH (16 MM)] THICK. BASIS OF DESIGN: [DEXCELL FA GLASS MAT ROOF BOARD] [DENS DECK                                                                                        |
| THEIR ORIGINAL UNDAMAGED CONTAINERS IN A CLEAN, DRY, PROTECTED<br>EMPERATURE RANGE REQUIRED BY ROOFING SYSTEM MANUFACTURER.                                                                                                                                            | 2.27                | PRIME ROOF BOARD]<br>GYPSUM FIBER BOARD: ASTM C 1278, NON-FACED, GYPSUM AND CELLULOSE FIBER SUBSTRATE, [1/4 INCH                                                                                                                                                                                                                                                                                                  |
| MATERIALS FROM PHYSICAL DAMAGE AND FROM DETERIORATION BY<br>G, AND OTHER SOURCES. COMPLY WITH INSULATION MANUFACTURER'S<br>HANDLING, STORING, AND PROTECTING DURING INSTALLATION.                                                                                      | ROOF                | (6 MM)] [3/8 INCH (9.5 MM)] [1/2 INCH (13 MM)] [5/8 INCH (16 MM)] THICK. BASIS OF DESIGN: SECUROCK<br>GYPSUM-FIBER ROOF BOARD<br>INSULATION – FLUTE FILLER                                                                                                                                                                                                                                                        |
| G MATERIALS AND PLACE EQUIPMENT IN A MANNER TO AVOID PERMANENT                                                                                                                                                                                                         | 2.28                | GENERAL: PREFORMED ROOF INSULATION BOARDS THAT COMPLY WITH REQUIREMENTS AND<br>REFERENCED STANDARDS, SELECTED FROM MANUFACTURER'S STANDARD SIZES AND OF THICKNESSES<br>INDICATED.                                                                                                                                                                                                                                 |
| CEED WITH INSTALLATION ONLY WHEN CURRENT AND FORECASTED WEATHER<br>3 SYSTEM TO BE INSTALLED IN ACCORDANCE WITH MANUFACTURER'S                                                                                                                                          | 2.29                | POLYISOCYANURATE BOARD INSULATION: ASTM C 1289, TYPE II, CLASS 1, GRADE 2, PRODUCT: ENRGY 3<br>A. PROVIDE METAL ROOF FLUTE FILLER INSULATION PACKAGE WITH THICKNESS TO FILL FLUTES THE<br>HEIGHT OF THE STANDING SEAM.                                                                                                                                                                                            |
| GUARANTEE REQUIREMENTS.                                                                                                                                                                                                                                                | ROOF                | INSULATION                                                                                                                                                                                                                                                                                                                                                                                                        |
|                                                                                                                                                                                                                                                                        | 2.30                | GENERAL: PREFORMED ROOF INSULATION BOARDS THAT COMPLY WITH REQUIREMENTS AND<br>REFERENCED STANDARDS, SELECTED FROM MANUFACTURER'S STANDARD SIZES AND OF THICKNESSES<br>INDICATED.                                                                                                                                                                                                                                 |
| NG MEMBRANE – TPO                                                                                                                                                                                                                                                      | 2.31                | POLYISOCYANURATE BOARD INSULATION: ASTM C 1289, TYPE II, CLASS [1] [2], GRADE [3 (25 PSI)], BASIS OF                                                                                                                                                                                                                                                                                                              |
| DPLASTIC POLYOLEFIN SHEET: ASTM D 6878, UNIFORM, FLEXIBLE SHEET<br>ASTIC POLYOLEFIN, INTERNALLY FABRIC OR SCRIM REINFORCED. BASIS OF                                                                                                                                   |                     | DESIGN: ENRGY 3 25 PSI CGF<br>A. PROVIDE INSULATION PACKAGE WITH MINIMUM R VALUE: [SEE SHEET G005] [MINIMUM REQUIRED BY                                                                                                                                                                                                                                                                                           |
| SS: 60MILS<br>OR: [WHITE]                                                                                                                                                                                                                                              |                     | APPLICABLE CODE].<br>B. PROVIDE INSULATION PACKAGE WITH MINIMUM THICKNESS: [60MIL].<br>C. PROVIDE INSULATION PACKAGE IN MULTIPLE LAYERS.<br>D. MINIMUM LONG-TERM THERMAL RESISTANCE (LTTR): 5.7 PER INCH.                                                                                                                                                                                                         |
| HICKNESS: 60 MILS (1.52 MM), NOMINAL<br>R: WHITE                                                                                                                                                                                                                       |                     | i. DETERMINED IN ACCORDANCE WITH CAN/ULC S770 AT 75°F (24°C)                                                                                                                                                                                                                                                                                                                                                      |
| LATION TEMPERATURE: 20°F (-7°C) AND ABOVE.                                                                                                                                                                                                                             |                     | RED INSULATION                                                                                                                                                                                                                                                                                                                                                                                                    |
| NGLE PLY<br>IALS RECOMMENDED BY ROOFING SYSTEM MANUFACTURER FOR INTENDED                                                                                                                                                                                               | 2.32                | TAPERED INSULATION: ASTMIC 1289, TYPE II, CLASS [1] [2], GRADE [2 (20 PSI)] [3 (25 PSI)], PROVIDE FACTORY-<br>TAPERED INSULATION BOARDS FABRICATED TO SLOPE OF 1/4 INCH PER 12 INCHES (1:48), UNLESS<br>OTHERWISE INDICATED, PASIS OF DESIGN: ITAPERED ENDOX 31 ITAPERED ENDOX 3 25 PSI ITAPERED                                                                                                                  |
| ALS RECOMMENDED BY ROOFING SYSTEM MANUFACTORER FOR INTENDED<br>AEMBRANE ROOFING.<br>AY MATERIALS SHALL MEET VOC LIMITS OF AUTHORITIES HAVING                                                                                                                           |                     | OTHERWISE INDICATED. BASIS OF DESIGN: [TAPERED ENRGY 3] [TAPERED ENRGY 3 25 PSI] [TAPERED<br>ENRGY 3 CGF] [TAPERED ENRGY 3 25 PSI CGF]                                                                                                                                                                                                                                                                            |

INSULATION ACCESSORIES

ERIALS SHALL MEET VOC LIMITS OF AUTHORITIES HAVING

'S INTERNALLY REINFORCED OR SCRIM REINFORCED. BASIS OF

60 MIL (1.5 MM) THICK, MANUFACTURER'S INTERNALLY REINFORCED OR E SELVAGE EDGES ON EACH SIDE OF ROLL, ONE ENCAPSULATED EDGE

- 2.33 GENERAL: ROOF INSULATION ACCESSORIES RECOMMENDED BY INSULATION MANUFACTURER FOR INTENDED USE AND COMPATIBLE WITH MEMBRANE ROOFING.
- 2.34 PROVIDE SADDLES, CRICKETS, TAPERED EDGE STRIPS, AND OTHER INSULATIONS SHAPES WHERE

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INDICATED FOR SLOPING TO DRAIN. FABRICATE TO SLOPES INDICATED. BASIS OF DESIGN: TAPERED FESCO EDGE STRIPS.

- 2.35 FASTENERS: FACTORY-COATED STEEL FASTENERS AND METAL OR PLASTIC PLATES MEETING CORROSION-RESISTANCE PROVISIONS IN FMG 4470, DESIGNED FOR FASTENING ROOF INSULATION TO SUBSTRATE, AND FURNISHED BY ROOFING SYSTEM MANUFACTURER. BASIS OF DESIGN: [ULTRAFAST FASTENERS AND ULTRAFAST PLATES] [ALL PURPOSE FASTENERS AND ULTRAFAST PLATE] [LITE-DECK FASTENERS AND PLATES]
- 2.36 POLYMER FASTENERS: GLASS-REINFORCED NYLON FASTENERS WITH 1/4" SQUARE DRIVE AND 1" HEAD WITH GALVALUME®\*-COATED 3" METAL STRESS PLATES, DESIGNED TO LOCK INTO THE FASTENER HEAD. FASTENERS DESIGNED FOR FASTENING ROOF INSULATION TO SUBSTRATE AND FURNISHED BY ROOFING SYSTEM MANUFACTURER. BASIS OF DESIGN: POLYMER AUGER FASTENERS AND PLATES
- 2.37 URETHANE ADHESIVE: MANUFACTURER'S TWO COMPONENT POLYURETHANE ADHESIVE FORMULATED TO ADHERE INSULATION TO SUBSTRATE. BASIS OF DESIGN: [JM TWO-PART URETHANE INSULATION ADHESIVE (UIA)] [JM ONE-STEP FOAMABLE ADHESIVE] [ROOFING SYSTEMS URETHANE ADHESIVE (RSUA)] [JM TWO-PART URETHANE INSULATION ADHESIVE CANISTER]
- 2.38 WOOD NAILER STRIPS: COMPLY WITH REQUIREMENTS IN DIVISION 06 SECTION "MISCELLANEOUS ROUGH CARPENTRY."

# VAPOR RETARDER

- 2.39 GLASS-FIBER FELTS: ASTM D 2178, TYPE IV, ASPHALT-IMPREGNATED, GLASS-FIBER FELT. BASIS OF DESIGN: GLASPLY IV.
- 2.40 TORCH APPLIED SBS VAPOR RETARDER: [ASTM D 6163, GRADE S, TYPE I, GLASS-FIBER-REINFORCED] [ASTM D 6164, GRADE S, TYPE I, POLYESTER-REINFORCED], SBS-MODIFIED ASPHALT SHEET; SMOOTH SURFACED; SUITABLE FOR APPLICATION METHOD SPECIFIED. BASIS OF DESIGN: [DYNAWELD BASE] [DYNABASE HW] [DYNAWELD 180 S].
- 2.41 SELF-ADHERED SBS VAPOR RETARDER: [ASTM D 6163, GRADE S, TYPE I, GLASS-FIBER-REINFORCED], SBS-MODIFIED ASPHALT SHEET; SAND SURFACED; SUITABLE FOR APPLICATION METHOD SPECIFIED. BASIS OF DESIGN: DYNAGRIP BASE SD/SA.
- 2.42 ASPHALT PRIMER: ASTM D 41. BASIS OF DESIGN: JM ASPHALT PRIMER
- 2.43 SELF-ADHERED SBS VAPOR RETARDER: TRI-LAMINATE WOVEN POLYETHYLENE, NONSLIP UV PROTECTED TOP SURFACE; SUITABLE FOR APPLICATION METHOD SPECIFIED. BASIS OF DESIGN: [JM VAPOR BARRIER SAR].
- 2.44 SELF-ADHERED PRIMER: [ONE-PART] [LOW VOC AEROSOL] PENETRATING PRIMER SOLUTION TO ENHANCE THE ADHESION OF SELF-ADHERING MEMBRANES. BASIS OF DESIGN: [SA PRIMER] [SA PRIMER LOW VOC] [JM ALL SEASON SPRAYABLE BONDING ADHESIVE].
- 2.45 POLYETHYLENE VAPOR RETARDER: ASTM D 4397, [6 MILS (0.15 MM)] [10 MILS (0.25 MM)] THICK, MINIMUM, WITH MAXIMUM PERMEANCE RATING OF 0.13 PERM (7.5 NG/PA X S X SQ. M).

# BASE-SHEET MATERIALS

- 2.46 BASE SHEET: ASTM D 4601, TYPE II NON-PERFORATED, ASPHALT-IMPREGNATED AND -COATED, GLASS-FIBER SHEET, DUSTED WITH FINE MINERAL SURFACING ON BOTH SIDES. BASIS OF DESIGN: [PERMAPLY 28] [GLASBASE PLUS]
- 2.47 BASE SHEET: ASTM D 4897, TYPE II, VENTING, NON-PERFORATED, HEAVYWEIGHT, ASPHALT-IMPREGNATED AND -COATED, GLASS-FIBER BASE SHEET WITH COARSE GRANULAR SURFACING OR EMBOSSED VENTING CHANNELS ON BOTTOM SURFACE. BASIS OF DESIGN: VENTSULATION FELT
- 2.48 BASE-SHEET FASTENERS: TWIN LEGGED FACTORY-COATED STEEL FASTENERS AND GALVALUME METAL PLATES MEETING CORROSION-RESISTANCE PROVISIONS IN FMG 4470, DESIGNED FOR FASTENING BASE-SHEET TO SUBSTRATE, TESTED BY MANUFACTURER FOR REQUIRED PULLOUT STRENGTH, AND PROVIDED BY THE ROOFING SYSTEM MANUFACTURER. PRODUCT: LIGHTWEIGHT CONCRETE (LWC) BASE SHEET FASTENERS
- 2.49 BASE-SHEET FASTENERS: TUBE, DISK AND LOCKING STAPLE DESIGN, FACTORY-COATED STEEL FASTENERS AND GALVALUME METAL BATTENS MEETING CORROSION-RESISTANCE PROVISIONS IN FMG 4470, DESIGNED FOR FASTENING BASE-SHEET TO SUBSTRATE, TESTED BY MANUFACTURER FOR REQUIRED PULLOUT STRENGTH, AND PROVIDED BY THE ROOFING SYSTEM MANUFACTURER. PRODUCT: ULTRALOK LOCKING IMPACT FASTENER

2.50 BASE SHEET FASTENERS: 32 GAUGE, 1-5/8" DIAMETER TIN CAPS WITH 11-GAUGE ANNULAR RING SHANK NAILS.

# SUBSTRATE BOARD

- 2.51 GYPSUM BOARD: ASTM C 1177, COATED GLASS-MAT FACER, WATER-RESISTANT GYPSUM SUBSTRATE FOR MECHANICALLY ATTACHED ROOF APPLICATIONS, [1/4 INCH (6 MM)] [1/2 INCH (13 MM)] [5/8 INCH (16 MM)] THICK. BASIS OF DESIGN: [SECUROCK ULTRALIGHT GLASS-MAT ROOF BOARD] [DEXCELL GLASS MAT ROOF BOARD] [DENS DECK ROOF BOARD]
- 2.52 GYPSUM BOARD: ASTM C 1177, HEAVY DUTY COATED GLASS-MAT FACER, WATER-RESISTANT GYPSUM SUBSTRATE FOR ADHERED ROOF APPLICATIONS, 5/8 INCH (16 MM) THICK. BASIS OF DESIGN: [DEXCELL FA GLASS MAT ROOF BOARD] [DENS DECK PRIME ROOF BOARD]
- 2.53 GYPSUM FIBER BOARD: ASTM C 1278, NON-FACED, GYPSUM AND CELLULOSE FIBER SUBSTRATE, [1/4 INCH (6 MM)] [3/8 INCH (9.5 MM)] [1/2 INCH (13 MM)] [5/8 INCH (16 MM)] THICK. BASIS OF DESIGN: SECUROCK GYPSUM-FIBER ROOF BOARD
- 2.54 HIGH-DENSITY POLYISOCYANURATE: ASTM C 1289, TYPE II, CLASS 4, GRADE 1, HIGH-DENSITY POLYISOCYANURATE TECHNOLOGY BONDED IN-LINE TO INORGANIC COATED GLASS FACERS WITH GREATER THAN 80 LBS OF COMPRESSIVE STRENGTH. BASIS OF DESIGN: PROTECTOR HD
   1. THICKNESS: 1/2 INCH (13 MM)
   2. R-VALUE: 2.5

# EDGE METAL COMPONENTS

- 2.55 EXPANSION JOINTS: PROVIDE FACTORY FABRICATED WEATHERPROOF, EXTERIOR COVERS FOR EXPANSION JOINT OPENINGS CONSISTING OF FLEXIBLE RUBBER MEMBRANE, SUPPORTED BY A CLOSED CELL FOAM TO FORM FLEXIBLE BELLOWS, WITH TWO METAL FLANGES, ADHESIVELY AND MECHANICALLY COMBINED TO THE BELLOWS BY A BIFURCATION PROCESS. PROVIDE PRODUCT FROM SINGLE-SOURCE ROOFING SYSTEM SUPPLIER THAT IS INCLUDED IN THE NO DOLLAR LIMIT GUARANTEE. BASIS OF DESIGN: [EXPAND-O-FLASH] [EXPAND-O-GARD]
- 2.56 COPING SYSTEM: MANUFACTURER'S FACTORY FABRICATED COPING CONSISTING OF A BASE PIECE AND A SNAP-ON CAP. PROVIDE PRODUCT FROM SINGLE-SOURCE ROOFING SYSTEM SUPPLIER THAT IS INCLUDED IN THE NO DOLLAR LIMIT GUARANTEE. BASIS OF DESIGN: [PRESTO-LOCK COPING] [PRESTO-LOCK GOLD COPING]
- 2.57 FASCIA SYSTEM: MANUFACTURER'S FACTORY FABRICATED FASCIA CONSISTING OF A BASE PIECE AND A SNAP-ON COVER. PROVIDE PRODUCT FROM SINGLE-SOURCE ROOFING SYSTEM SUPPLIER THAT IS INCLUDED IN THE NO DOLLAR LIMIT GUARANTEE. BASIS OF DESIGN: [PRESTO-TITE FASCIA] [PRESTO-TITE EDGE ONE FASCIA]
- TERMINATE THE ROOF AT THE PERIMETER OF THE STRUCTURE. PROVIDE PRODUCT FROM SINGLE-SOURCE ROOFING SYSTEM SUPPLIER THAT IS INCLUDED IN THE NO DOLLAR LIMIT GUARANTEE. BASIS OF DESIGN: [PRESTO-WELD DRIP EDGE] [JM TPO-COATED METAL]

2.59 METAL FLASHING SHEET: METAL FLASHING SHEET IS SPECIFIED IN DIVISION 07 SECTION "SHEET METAL FLASHING AND TRIM."

# PART 3 – EXCECUTION

# EXAMINATION

3.1 EXAMINE SUBSTRATES, AREAS, AND CONDITIONS FOR COMPLIANCE WITH THE REQUIREMENTS AFFECTING PERFORMANCE OF ROOFING SYSTEM.

# GENERAL:

- 3.2 VERIFY THAT ROOF OPENINGS AND PENETRATIONS ARE IN PLACE AND SET AND BRACED AND THAT ROOF DRAINS ARE SECURELY CLAMPED IN PLACE.
- 3.3 VERIFY THAT WOOD CANTS, BLOCKING, CURBS, AND NAILERS ARE SECURELY ANCHORED TO ROOF DECK AT PENETRATIONS AND TERMINATIONS AND THAT NAILERS MATCH THICKNESSES OF INSULATION.

BIEEL DECKS:

3.4 VERIFY THAT SURFACE PLANE FLATNESS AND FASTENING OF STEEL ROOF DECK COMPLIES WITH



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#300



**513 MAIN STREET** 



PERMIT SET: 04/12/2024

CONTRACTOR SHALL VERIFY ALL CONDITIONS AND DIMENSIONS AT THE JOB SITE AND NOTIFY THE ARCHITECT OF ANY DIMENSIONAL ERRORS, OMISSIONS OR DISCREPANCIES BEFORE BEGINNING OR FABRICATING ANY WORK. DO NOT SCALE DRAWINGS.

| ISSUE | DATE | DESCRIPTION |  |  |
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### PROJECT NO: ORIGINAL ISSUE: SCALE: DRAWN BY:

AS NOTED P. C J. JEFFERY

24-0087

06/01/2023

SHEET TITLE

CHECKED BY:

# SPECIFICATIONS

SHEET NUMBER

A803

|                      | REQUIREMENTS IN DIVISION 05 SECTION "STEEL DECKING."<br>VERIFY THAT DECKING IS VISIBLY DRY AND FREE OF MOISTURE.                                                                                                                                        |                     | TOGETHER.<br>1. FASTEN SUBSTRATE BOARD TO [TOP FLA<br>PRESSURE AT CORNERS, PERIMETER, AN                                                                                    |
|----------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 3.6                  | VERIFY THAT THE DECKING IS SMOOTH AND FREE OF LARGE CRACKS, HOLES, OR SHARP CHANGES IN                                                                                                                                                                  |                     | MANUFACTURER'S WRITTEN INSTRUCTIO                                                                                                                                           |
| 9.7                  | ELEVATION OF THE SURFACE.                                                                                                                                                                                                                               |                     | -SHEET INSTALLATION<br>INSTALL ONE LAPPED BASE SHEET COURSE AND                                                                                                             |
| 3.7<br>CONC          | WHEN APPLICABLE PERFORM PULL TEST WITH THE SPECIFIC FASTENER BEING USED ON THE PROJECT TO<br>CONFIRM THE FASTENER RESISTANCE MEETS THE REQUIREMENTS FOR THAT PARTICULAR SYSTEM.<br>RETE DECKS:                                                          | 3.43                | A. ENHANCE FASTENING RATE IN PERIMETE<br>UPLIFT SYSTEM APPROVALS OR MANUFA                                                                                                  |
|                      | VERIFY THAT CONCRETE CURING COMPOUNDS THAT WILL IMPAIR ADHESION OF ROOFING COMPONENTS TO ROOF DECK HAVE BEEN REMOVED.                                                                                                                                   | 3.44                | MORE STRINGENT.<br>COMPLY WITH ROOFING SYSTEM MANUFACTURE                                                                                                                   |
| 3.9                  | VERIFY THAT CONCRETE SUBSTRATE IS VISIBLY DRY AND FREE OF MOISTURE.                                                                                                                                                                                     | VARO                | INSULATION.                                                                                                                                                                 |
| WOOD                 | DECKS:                                                                                                                                                                                                                                                  | <u>VAPO</u><br>3.45 | R-RETARDER INSTALLATION<br>INSTALL POLYETHYLENE-SHEET VAPOR RETARDE                                                                                                         |
| 3.10                 | VERIFY THAT WOOD DECKING IS VISIBLY DRY AND FREE OF MOISTURE.                                                                                                                                                                                           |                     | RECEIVE VAPOR RETARDER, SIDE AND END LAPP<br>INCHES (150 MM), RESPECTIVELY.                                                                                                 |
| 3.11                 | VERIFY THAT WOOD HAS ABILITY TO PROVIDE MINIMUM FASTENER PULL-OUT RESISTANCE.<br>A. PROVIDE DOCUMENTATION OF PULL-OUT RESISTANCE VALUES IN ACCORDANCE WITH ANSI/SPRI<br>FX-1 2016.                                                                      | 3.46                | <ul> <li>A. SEAL SIDE AND END LAPS.</li> <li>INSTALL 2 GLASS-FIBER FELT PLIES LAPPING EAC<br/>EMBED EACH SHEET IN A SOLID MOPPING OF HOT</li> </ul>                         |
| CEME                 | NTITIOUS WOOD FIBER DECKS (TECTUM):                                                                                                                                                                                                                     |                     | INSTRUCTIONS.                                                                                                                                                               |
| 3.12<br>3.13         | VERIFY THAT CEMENTITIOUS WOOD FIBER SUBSTRATE IS VISIBLY DRY AND FREE OF MOISTURE.<br>VERIFY THAT CEMENTITIOUS WOOD FIBER HAS ABILITY TO PROVIDE MINIMUM BASE SHEET FASTENER PULL-<br>OUT RESISTANCE.                                                   | 3.47                | INSTALL MODIFIED BITUMINOUS VAPOR RETARDE<br>INSTRUCTIONS, STARTING AT LOW POINT OF ROC<br>OVER AND TERMINATE BEYOND CANTS, INSTALLI<br>A. UNROLL ROOFING MEMBRANE SHEETS A |
| 3.14                 | <ul> <li>PROVIDE DOCUMENTATION OF PULL-OUT RESISTANCE VALUES IN ACCORDANCE WITH ANSI/SPRI<br/>FX-1 2016.</li> <li>PROVIDE DOCUMENTATION OF ADHESION RESISTANCE VALUES IN ACCORDANCE WITH ANSI/SPRI 1A-1 2015.</li> </ul>                                |                     | BY MANUFACTURER.<br>B. HEAT WELD VAPOR RETARDER TO SUBST<br>INSTRUCTIONS.<br>C. ADHERE VAPOR RETARDER IN A FULL MO                                                          |
|                      |                                                                                                                                                                                                                                                         |                     | SYSTEM MANUFACTURER'S WRITTEN INS<br>D. SELF-ADHERE VAPOR RETARDER TO SUB                                                                                                   |
| <u>LIGHT</u><br>3.15 | WEIGHT INSULATING CONCRETE:<br>VERIFY THAT LIGHTWEIGHT INSULATING CONCRETE SUBSTRATE IS VISIBLY DRY AND FREE OF MOISTURE.                                                                                                                               | 3.48                | INSTRUCTIONS.                                                                                                                                                               |
| 3.16                 | VERIFY THAT LIGHTWEIGHT INSULATING CONCRETE HAS ABILITY TO PROVIDE MINIMUM BASE SHEET                                                                                                                                                                   | 5.40                | SIDE AND END LAPS. STAGGER END LAPS. COMP<br>A. REPAIR TEARS AND VOIDS IN LAPS AND L                                                                                        |
| 3.17                 | FASTENER PULL-OUT RESISTANCE.<br>PROVIDE DOCUMENTATION OF ADHESION RESISTANCE VALUES IN ACCORDANCE WITH ANSI/SPRI 1A-1 2015.                                                                                                                            | 3.49                | COMPLETELY SEAL VAPOR RETARDER AT TERMIN<br>PREVENT AIR MOVEMENT INTO MEMBRANE ROOF                                                                                         |
| <u>GYPSI</u>         | JM DECK:                                                                                                                                                                                                                                                | FLUT                | E FILLER INSULATION INSTALLATION                                                                                                                                            |
| 3.18                 | VERIFY THAT GYPSUM IS VISIBLY DRY, FREE OF MOISTURE, AND THAT THERE ARE NO SIGNS OF STAINING.                                                                                                                                                           | 3.50                | COORDINATE INSTALLATION OF ROOF SYSTEM CO<br>PRECIPITATION OR LEFT EXPOSED AT THE END O                                                                                     |
| 3.19                 | INSPECT DECK FOR CRACKING AND DEFLECTION OF BULB TEES.                                                                                                                                                                                                  | 3.51                | COMPLY WITH ROOFING SYSTEM MANUFACTURE                                                                                                                                      |
| 3.20                 | VERIFY THAT GYPSUM HAS ABILITY TO PROVIDE MINIMUM FASTENER PULL-OUT RESISTANCE.<br>A. PROVIDE DOCUMENTATION OF PULL-OUT RESISTANCE VALUES IN ACCORDANCE WITH ANSI/SPRI<br>FX-1 2016.                                                                    | 3.52                | INSULATION.                                                                                                                                                                 |
| 3.21                 | PROVIDE DOCUMENTATION OF ADHESION RESISTANCE VALUES IN ACCORDANCE WITH ANSI/SPRI 1A-1 2015                                                                                                                                                              |                     | INSULATION INSTALLATION                                                                                                                                                     |
| 3.22                 | ENSURE GENERAL RIGIDITY AND PROPER SLOPE FOR DRAINAGE.                                                                                                                                                                                                  | 3.53                | COORDINATE INSTALLATION OF ROOF SYSTEM CO<br>EXPOSED TO PRECIPITATION OR LEFT EXPOSED                                                                                       |
| 3.23                 | VERIFY THAT DECK IS SECURELY FASTENED WITH NO PROJECTING FASTENERS AND WITH NO ADJACENT UNITS MORE THAN 1/16 INCH (1.6 MM) OUT OF PLANE RELATIVE TO ADJOINING DECK.                                                                                     | 3.54                | COMPLY WITH ROOFING SYSTEM MANUFACTURE<br>INSULATION AND COVER BOARD.                                                                                                       |
|                      | CEPTABLE PANELS SHOULD BE BROUGHT TO THE ATTENTION OF THE GENERAL CONTRACTOR AND PROJECT<br>R'S REPRESENTATIVE AND SHALL BE CORRECTED PRIOR TO INSTALLATION OF ROOFING SYSTEM.                                                                          | 3.55<br>3.56        | INSTALL TAPERED INSULATION UNDER AREA OF F                                                                                                                                  |
| PREPA                | ARATION                                                                                                                                                                                                                                                 | 3.50                | STAGGERED BETWEEN ROWS, ABUTTING EDGES<br>INSTRUCTIONS. FILL GAPS EXCEEDING 1/4 INCH (                                                                                      |
| 3.24                 | CLEAN AND REMOVE FROM SUBSTRATE SHARP PROJECTIONS, DUST, DEBRIS, MOISTURE, AND OTHER<br>SUBSTANCES DETRIMENTAL TO ROOFING INSTALLATION IN ACCORDANCE WITH ROOFING SYSTEM<br>MANUFACTURER'S WRITTEN INSTRUCTIONS.                                        | 3.57                | INSTALL 2 OR MORE LAYERS WITH JOINTS OF EAC<br>PREVIOUS LAYER A MINIMUM OF 6 INCHES (150 M                                                                                  |
| 3.25                 | PREVENT MATERIALS FROM ENTERING AND CLOGGING ROOF DRAINS AND CONDUCTORS AND FROM SPILLING OR MIGRATING ONTO SURFACES OF OTHER CONSTRUCTION.                                                                                                             | 3.58                | TRIM SURFACE OF INSULATION BOARDS WHERE I<br>FLUSH AND DOES NOT RESTRICT FLOW OF WATE                                                                                       |
| 3.26                 | IF APPLICABLE, PRIME SURFACE OF DECK AT A RATE RECOMMENDED BY ROOFING MANUFACTURER AND ALLOW PRIMER TO DRY.                                                                                                                                             | 3.59                | INSTALL TAPERED EDGE STRIPS AT PERIMETER E SURFACES.                                                                                                                        |
| 3.27                 | PROCEED WITH EACH STEP OF INSTALLATION ONLY AFTER UNSATISFACTORY CONDITIONS HAVE BEEN CORRECTED.                                                                                                                                                        | 3.60                | PRELIMINARILY FASTENED INSULATION [FOR MEC<br>INSULATION WITH FASTENERS AT RATE REQUIES                                                                                     |
| RE-RO                | OF PREPARATION                                                                                                                                                                                                                                          | 3.61                | A. FASTEN TOP LAYER TO RESIST UPLIFT PF<br>ADHERED INSULATION: ADHERE INSULATION TO                                                                                         |
| 3.28                 | REMOVE ALL ROOFING MEMBRANE, SURFACING, COVERBOARDS, INSULATION, FASTENERS, ASPHALT,<br>PITCH, ADHESIVES, ETC.<br>A. REMOVE AN AREA NO LARGER THAN CAN BE RE-ROOFED IN ONE DAY.                                                                         |                     | <ul> <li>A. INSTALL EACH LAYER IN A TWO-PART URI<br/>MANUFACTURER'S INSTRUCTION.</li> <li>B. INSTALL EACH LAYER IN A SOLID MOPPIN</li> </ul>                                |
| 3.29                 | TEAR OUT ALL BASE FLASHINGS, COUNTERFLASHINGS, PITCH PANS, PIPE FLASHINGS, VENTS, SUMPS AND<br>LIKE COMPONENTS NECESSARY FOR APPLICATION OF NEW MEMBRANE.                                                                                               |                     | C. INSTALL EACH LAYER TO RESIST UPLIFT                                                                                                                                      |
| 3.30                 | REMOVE ABANDONED EQUIPMENT CURBS, SKYLIGHTS, SMOKE HATCHES, AND PENETRATIONS.<br>A. INSTALL DECKING TO MATCH EXISTING AS DIRECTED BY OWNER'S REPRESENTATIVE.                                                                                            | 3.62                | LOOSE LAID INSULATION WITH TOP INSULATION L<br>WITH STAGGERED JOINTS AND SECURE TOP LAY<br>FASTENERS DESIGNED AND SIZED FOR FASTENIN                                        |
| 3.31                 | RAISE (DISCONNECT BY LICENSED CRAFTSMEN, IF NECESSARY) ALL HVAC UNITS AND OTHER EQUIPMENT SUPPORTED BY CURBS TO CONFORM WITH THE FOLLOWING:                                                                                                             | 3.63                | A. FASTEN TOP LAYER TO RESIST UPLIFT PF<br>LOOSE LAID INSULATION: LOOSE LAY ALL LAYERS                                                                                      |
|                      | A. MODIFY CURBS AS REQUIRED TO PROVIDE A MINIMUM 8" BASE FLASHING HEIGHT MEASURED FROM<br>THE SURFACE OF THE NEW MEMBRANE TO THE TOP OF THE FLASHING MEMBRANE.                                                                                          | 3.64                | MECHANICALLY FASTENED WITH SUBSEQUENT L/                                                                                                                                    |
|                      | <ul> <li>B. SECURE OF FLASHING AND INSTALL NEW METAL COUNTERFLASHING PRIOR TO RE-INSTALLATION<br/>OF UNIT.</li> <li>C. PERIMETER NAILERS SHALL BE ELEVATED TO MATCH ELEVATION OF NEW ROOF INSULATION.</li> </ul>                                        |                     | INSULATION TO DECK USING MECHANICAL FASTE<br>BOARD-TYPE TO DECK TYPE.<br>A. FASTEN FIRST LAYER TO RESIST UPLIFT                                                             |
| 3.32                 | IMMEDIATELY REMOVE ALL DEBRIS FROM ROOF SURFACE. DEMOLISHED ROOF SYSTEM MAY NOT BE                                                                                                                                                                      |                     | B. INSTALL SUBSEQUENT LAYERS IN A TWO-<br>SYSTEM MANUFACTURER'S INSTRUCTION                                                                                                 |
| RE-CO                | STORED ON THE ROOF SURFACE.                                                                                                                                                                                                                             |                     | C. INSTALL SUBSEQUENT LAYERS IN A SOLI<br>ROOFING SYSTEM MANUFACTURER'S INS<br>D. INSTALL EACH LAYER TO RESIST UPLIFT                                                       |
| 3.33                 | PREPARE EXISTING ROOF ACCORDING TO ROOFING SYSTEM MANUFACTURER'S WRITTEN INSTRUCTIONS,                                                                                                                                                                  |                     | COVER BOARD INSTALLATION                                                                                                                                                    |
|                      | APPLICABLE RECOMMENDATIONS OF THE ROOFING MANUFACTURER, AND REQUIREMENTS IN THIS SECTION.                                                                                                                                                               | 3.65                | COORDINATE INSTALLING MEMBRANE ROOFING S<br>TO PRECIPITATION OR LEFT EXPOSED AT THE EN                                                                                      |
| 3.34                 | TEAR OUT ALL BASE FLASHINGS, COUNTERFLASHINGS, PITCH PANS, PIPE FLASHINGS, VENTS, SUMPS AND LIKE COMPONENTS NECESSARY FOR APPLICATION OF NEW MEMBRANE.                                                                                                  | 3.66                | COMPLY WITH MEMBRANE ROOFING SYSTEM MAI<br>ROOF COVER BOARD.                                                                                                                |
| 3.35                 | DISABLE EXISTING ROOF MEMBRANE PER MANUFACTURER'S WRITTEN INSTRUCTION.                                                                                                                                                                                  | 3.67                | INSTALL COVER BOARD WITH LONG JOINTS IN A C<br>STAGGERED BETWEEN ROWS, ABUTTING EDGES                                                                                       |
| 3.36                 | REMOVE EXISTING MEMBRANE PER MANUFACTURER'S WRITTEN INSTRUCTIONS.<br>REMOVE AND REPLACE WET, DETERIORATED OR DAMAGED ROOF INSULATION AND DECKING AS IDENTIFIED                                                                                          |                     | INSTRUCTIONS. FILL GAPS EXCEEDING 1/4 INCH (<br>A. CUT AND FIT COVER BOARD WITHIN 1/4 IN<br>PENETRATIONS.                                                                   |
| 3.37                 | IN MOISTURE SURVEY.                                                                                                                                                                                                                                     | 3.68                | TRIM SURFACE OF COVER BOARD WHERE NECES                                                                                                                                     |
| 3.38<br>3.39         | REMOVE ABANDONED EQUIPMENT CURBS, SKYLIGHTS, SMOKE HATCHES, AND PENETRATIONS. INSTALL<br>DECKING TO MATCH EXISTING AS DIRECTED BY OWNER'S REPRESENTATIVE.<br>RAISE, (DISCONNECT BY LICENSED CRAFTSMEN, IF NECESSARY) ALL HVAC UNITS AND OTHER EQUIPMENT |                     | FLUSH AND DOES NOT RESTRICT FLOW OF WATE<br>A. INSTALL TAPERED EDGE STRIPS AT PERI<br>VERTICAL SURFACES.                                                                    |
| 5.55                 | SUPPORTED BY CURBS TO CONFORM WITH THE FOLLOWING:<br>A. MODIFY CURBS AS REQUIRED TO PROVIDE A MINIMUM 8-INCH BASE FLASHING HEIGHT MEASURED<br>FROM THE SURFACE OF THE NEW MEMBRANE TO THE TOP OF THE FLASHING MEMBRANE.                                 | 3.69                | PRELIMINARILY FASTENED COVER BOARD FOR M<br>BOARD WITH FASTENERS AT RATE REQUIRED BY<br>AUTHORITY, WHICHEVER IS MORE STRINGENT.                                             |
|                      | <ul> <li>B. SECURE TOP OF FLASHING AND INSTALL NEW METAL COUNTERFLASHING PRIOR TO RE-<br/>INSTALLATION OF UNIT.</li> <li>C. PERIMETER NAILERS SHALL BE ELEVATED TO MATCH ELEVATION OF NEW ROOF INSULATION.</li> </ul>                                   | 3.70                | ADHERED COVER BOARD: ADHERE COVER BOAR<br>A. INSTALL IN A TWO-PART URETHANE ADHE                                                                                            |
| 3.40.                | IMMEDIATELY REMOVE ALL DEBRIS FROM ROOF SURFACE. DEMOLISHED ROOF SYSTEM MAY NOT BE                                                                                                                                                                      |                     | <ul> <li>B. INSTALL IN A TWO-PART ORETHANE ADDE<br/>INSTRUCTION.</li> <li>B. INSTALL TO RESIST UPLIFT PRESSURE AT</li> </ul>                                                |
| 3.41                 | STORED ON THE ROOF SURFACE.<br>INSTALL POLYESTER SLIP SHEET AS A LOOSELY LAID SINGLE LAYER BENEATH NEW SINGLE PLY MEMBRANE,<br>SIDE AND END LAPPING EACH SHEET A MINIMUM OF 3 INCHES (76.2 MM) AND 6 INCHES (150 MM),                                   | 3.71                | MECHANICALLY FASTENED COVER BOARD: INST<br>MECHANICAL FASTENERS DESIGNED AND SIZED F<br>A. FASTEN TO RESIST UPLIFT PRESSURE AT                                              |
| eupor                | RESPECTIVELY. SHEET MAY BE TACKED INTO PLACE AS DEEMED NECESSARY.                                                                                                                                                                                       | ROOF                | ING MEMBRANE INSTALLATION, GENERAL                                                                                                                                          |
| 3.42                 | INSTALL SUBSTRATE BOARD WITH LONG JOINTS IN CONTINUOUS STRAIGHT LINES, PERPENDICULAR TO                                                                                                                                                                 | 3.72                | INSTALL ROOFING MEMBRANE IN ACCORDANCE V<br>INSTRUCTIONS, APPLICABLE RECOMMENDATIONS                                                                                        |
|                      | ROOF SLOPES WITH END JOINTS STAGGERED BETWEEN ROWS. TIGHTLY BUTT SUBSTRATE BOARDS                                                                                                                                                                       |                     | IN THIS SECTION.                                                                                                                                                            |

ANGES OF STEEL DECK] [WOOD DECK] TO RESIST UPLIFT AND FIELD OF ROOF PER ROOFING SYSTEM DNS.

D MECHANICALLY FASTEN TO SUBSTRATE PER ROOFING TER AND CORNER ZONES PER CODE REQUIREMENTS, WIND ACTURER'S GUARANTEE REQUIREMENTS, WHICHEVER IS

ER'S WRITTEN INSTRUCTIONS FOR INSTALLING ROOF

DER AS A LOOSELY LAID SINGLE LAYER OVER AREA TO PING EACH SHEET A MINIMUM OF 2 INCHES (50 MM) AND 6

ACH SHEET 19 INCHES (483 MM) OVER PRECEDING SHEET. OT ROOFING ASPHALT PER MANUFACTURER'S WRITTEN

DER SHEET PER ROOFING MANUFACTURER'S WRITTEN OFING SYSTEM. EXTEND ROOFING MEMBRANE SHEETS LING AS FOLLOWS AND ALLOW THEM TO RELAX FOR MINIMUM TIME REQUIRED STRATE PER ROOFING SYSTEM MANUFACTURER'S WRITTEN OPPING OF HOT ASPHALT TO SUBSTRATE PER ROOFING ISTRUCTIONS. JBSTRATE PER ROOFING SYSTEM MANUFACTURER'S

E SHEETS, WITHOUT STRETCHING, AND MAINTAIN UNIFORM MPLETELY BOND AND SEAL LAPS, LEAVING NO VOIDS. LAPPED SEAMS NOT COMPLETELY SEALED.

INATIONS, OBSTRUCTIONS, AND PENETRATIONS TO FING SYSTEM.

COMPONENTS SO INSULATION IS NOT EXPOSED TO OF THE WORKDAY.

RER'S WRITTEN INSTRUCTIONS FOR INSTALLING ROOF

INSULATION BETWEEN THE METAL ROOF STANDING SEAMS.

COMPONENTS SO INSULATION AND COVER BOARD ARE NOT D AT THE END OF THE WORKDAY.

ER'S WRITTEN INSTRUCTIONS FOR INSTALLATION OF ROOF

ROOFING TO CONFORM TO SLOPES INDICATED.

IS IN A CONTINUOUS STRAIGHT LINE. JOINTS SHOULD BE S AND ENDS PER MANUFACTURER'S WRITTEN (6 MM) WITH LIKE MATERIAL.

ACH SUCCEEDING LAYER STAGGERED FROM JOINTS OF MM) IN EACH DIRECTION.

NECESSARY AT ROOF DRAINS SO COMPLETED SURFACE IS

EDGES OF ROOF THAT DO NOT TERMINATE AT VERTICAL

CHANICALLY FASTENED MEMBRANE SYSTEMS]: INSTALL ED BY ROOFING SYSTEM MANUFACTURER. PRESSURE AT CORNERS, PERIMETER, AND FIELD OF ROOF.

O SUBSTRATE AS FOLLOWS: RETHANE ADHESIVE ACCORDING TO ROOFING SYSTEM

NG OF HOT ROOFING ASPHALT ACCORDING TO ROOFING PRESSURE AT CORNERS, PERIMETER, AND FIELD OF ROOF.

LAYER MECHANICALLY FASTENED: LOOSE LAY INSULATION YER OF INSULATION TO DECK USING MECHANICAL ING SPECIFIED BOARD-TYPE TO DECK TYPE. PRESSURE AT CORNERS, PERIMETER, AND FIELD OF ROOF.

RS OF INSULATION WITH STAGGERED JOINTS.

LAYERS ADHERED INSULATION: SECURE FIRST LAYER OF ENERS DESIGNED AND SIZED FOR FASTENING SPECIFIED

PRESSURE AT CORNERS, PERIMETER, AND FIELD OF ROOF. O-PART URETHANE ADHESIVE ACCORDING TO ROOFING ID MOPPING OF HOT ROOFING ASPHALT ACCORDING TO

ISTRUCTION. PRESSURE AT CORNERS, PERIMETER, AND FIELD OF ROOF.

SYSTEM COMPONENTS SO COVER BOARD IS NOT EXPOSED ND OF THE WORKDAY.

ANUFACTURER'S WRITTEN INSTRUCTIONS FOR INSTALLING

### CONTINUOUS STRAIGHT LINE. JOINTS SHOULD BE S AND ENDS PER MANUFACTURER'S WRITTEN (6 MM) WITH COVER BOARD. INCH (6 MM) OF NAILERS, PROJECTIONS, AND

SSARY AT ROOF DRAINS SO COMPLETED SURFACE IS RIMETER EDGES OF ROOF THAT DO NOT TERMINATE AT

MECHANICALLY FASTENED SYSTEMS: INSTALL COVER BY ROOFING SYSTEM MANUFACTURER OR APPLICABLE

ARD TO SUBSTRATE AS FOLLOWS: HESIVE ACCORDING TO ROOFING SYSTEM MANUFACTURER'S

AT CORNERS, PERIMETER, AND FIELD OF ROOF.

TALL COVER BOARD AND SECURE TO DECK USING FOR FASTENING SPECIFIED COVER BOARD TO DECK TYPE. T CORNERS, PERIMETER, AND FIELD OF ROOF.

WITH ROOFING SYSTEM MANUFACTURER'S WRITTEN NS OF THE ROOFING MANUFACTURER AND REQUIREMENTS

- 3.73 COOPERATE WITH TESTING AND INSPECTING AGENCIES ENGAGED OR REQUIRED TO PERFORM SERVICES FOR INSTALLING ROOFING SYSTEM.
- 3.74 COORDINATE INSTALLING ROOFING SYSTEM SO INSULATION AND OTHER COMPONENTS OF THE ROOFING MEMBRANE SYSTEM NOT PERMANENTLY EXPOSED ARE NOT SUBJECTED TO PRECIPITATION OR LEFT UNCOVERED AT THE END OF THE WORKDAY OR WHEN RAIN IS IMMINENT.
  - PROVIDE TIE-OFFS AT END OF EACH DAY'S WORK TO COVER EXPOSED ROOFING MEMBRANE SHEETS AND INSULATION.
  - COMPLETE TERMINATIONS AND BASE FLASHINGS AND PROVIDE TEMPORARY SEALS TO PREVENT WATER FROM ENTERING COMPLETED SECTIONS OF ROOFING SYSTEM. REMOVE AND DISCARD TEMPORARY SEALS BEFORE BEGINNING WORK ON ADJOINING ROOFING.
- 3.75 ASPHALT HEATING: HEAT ROOFING ASPHALT TO TEMPERATURE RECOMMENDED BY ROOFING MANUFACTURER TO FLUX MODIFIED MEMBRANE. DO NOT EXCEED ROOFING ASPHALT MANUFACTURER'S RECOMMENDED TEMPERATURE LIMITS DURING ROOFING ASPHALT HEATING. DISCARD ROOFING ASPHALT MAINTAINED AT A TEMPERATURE EXCEEDING FINISHED BLOWING TEMPERATURE FOR MORE THAN 4 HOURS.
- 3.76 SUBSTRATE-JOINT PENETRATIONS: PREVENT ROOFING ASPHALT FROM PENETRATING SUBSTRATE JOINTS, ENTERING BUILDING, OR DAMAGING ROOFING SYSTEM COMPONENTS OR ADJACENT BUILDING CONSTRUCTION.

ADHERED ROOFING MEMBRANE INSTALLATION

- INSTALL ROOFING MEMBRANE OVER AREA TO RECEIVE ROOFING IN ACCORDANCE WITH MEMBRANE 3.77 ROOFING SYSTEM MANUFACTURER'S WRITTEN INSTRUCTIONS. UNROLL ROOFING MEMBRANE AND ALLOW TO RELAX BEFORE INSTALLING.
- ACCURATELY ALIGN ROOFING MEMBRANE AND MAINTAIN UNIFORM SIDE AND END LAPS OF MINIMUM 3.78 DIMENSIONS REQUIRED BY MANUFACTURER. STAGGER END LAPS.
- SOLVENT BASED BONDING ADHESIVE FOR SMOOTH BACKED MEMBRANES: APPLY SOLVENT-BASED 3.79 BONDING ADHESIVE TO SUBSTRATE AND UNDERSIDE OF ROOFING MEMBRANE AT RATE REQUIRED BY MANUFACTURER AND ALLOW TO PARTIALLY DRY BEFORE INSTALLING ROOFING MEMBRANE. DO NOT APPLY BONDING ADHESIVE TO SPLICE AREA OF ROOFING MEMBRANE
- WATER BASED BONDING ADHESIVE FOR SMOOTH BACKED MEMBRANES: APPLY WATER-BASED BONDING 3.80 ADHESIVE TO SUBSTRATE AT RATE REQUIRED BY MANUFACTURER AND IMMEDIATELY INSTALL ROOFING MEMBRANE. DO NOT APPLY BONDING ADHESIVE TO SPLICE AREA OF ROOFING MEMBRANE.
- WATER BASED BONDING ADHESIVE FOR FLEECE BACKED MEMBRANES: APPLY WATER-BASED BONDING 3.81 ADHESIVE TO SUBSTRATE AT RATE REQUIRED BY MANUFACTURER AND IMMEDIATELY INSTALL ROOFING MEMBRANE. DO NOT APPLY BONDING ADHESIVE TO SPLICE AREA OF ROOFING MEMBRANE.
- 3.82 URETHANE MEMBRANE ADHESIVE FOR FLEECE BACKED MEMBRANES: APPLY URETHANE ADHESIVE TO SUBSTRATE AT RATE REQUIRED BY MANUFACTURER AND INSTALL FLEECE-BACKED ROOFING MEMBRANE. DO NOT APPLY BONDING ADHESIVE TO SPLICE AREA OF ROOFING MEMBRANE.
- 3.83 ASPHALT FOR FLEECE BACKED MEMBRANES: ADHERE TO SUBSTRATE IN A SOLID MOPPING OF HOT ROOFING ASPHALT APPLIED AT TEMPERATURES RECOMMENDED BY ROOFING SYSTEM MANUFACTURER.
- 3.84 MECHANICALLY FASTEN ROOFING MEMBRANE SECURELY AT TERMINATIONS, PENETRATIONS, AND PERIMETER OF ROOFING.
- 3.85 APPLY ROOFING MEMBRANE WITH SIDE LAPS SHINGLED WITH ROOF SLOPE, WHERE POSSIBLE. 3.86 SEAMS: CLEAN SEAM AREAS, OVERLAP ROOFING MEMBRANE, AND HOT-AIR WELD SIDE AND END LAPS OF
  - ROOFING MEMBRANE ACCORDING TO MANUFACTURER'S WRITTEN INSTRUCTIONS TO ENSURE A WATERTIGHT SEAM INSTALLATION. TEST LAP EDGES WITH PROBE TO VERIFY SEAM WELD CONTINUITY. APPLY LAP SEALANT TO SEAL
  - CUT EDGES OF ROOFING MEMBRANE VERIFY FIELD STRENGTH OF SEAMS A MINIMUM OF TWICE DAILY AND REPAIR SEAM SAMPLE AREAS. REMOVE AND REPAIR ANY UNSATISFACTORY SECTIONS BEFORE PROCEEDING WITH
  - INSTALLATION. REPAIR TEARS, VOIDS, AND INCORRECTLY LAPPED SEAMS IN ROOFING MEMBRANE THAT DO NOT C. MEET REQUIREMENTS.
- SPREAD SEALANT OR MASTIC BEAD OVER DECK DRAIN FLANGE AT DECK DRAINS AND SECURELY SEAL 3.87 ROOFING MEMBRANE IN PLACE WITH CLAMPING RING.

## MECHANICALLY FASTENED ROOFING MEMBRANE INSTALLATION

- 3.88 INSTALL ROOFING MEMBRANE OVER AREA TO RECEIVE ROOFING IN ACCORDANCE WITH ROOFING SYSTEM MANUFACTURER'S WRITTEN INSTRUCTIONS. UNROLL ROOFING MEMBRANE AND ALLOW IT TO RELAX BEFORE INSTALLING. INSTALL SHEET IN ACCORDANCE WITH ROOFING SYSTEM MANUFACTURER'S WRITTEN INSTRUCTIONS.
- 3.89 ACCURATELY ALIGN ROOFING MEMBRANES AND MAINTAIN UNIFORM SIDE AND END LAPS OF MINIMUM DIMENSIONS REQUIRED BY MANUFACTURER. STAGGER END LAPS.
- 3.90 MECHANICALLY FASTEN ROOFING MEMBRANE SECURELY AT TERMINATIONS, PENETRATIONS, AND PERIMETER OF ROOFING.
- 3.91 ALWAYS INSTALL MEMBRANE LAPS PERPENDICULAR TO THE STEEL DECK FLUTES. "PICTURE FRAME" INSTALLATION METHOD IS NOT PERMITTED.
- 3.92 APPLY ROOFING MEMBRANE WITH SIDE LAPS SHINGLED WITH ROOF SLOPE, WHERE POSSIBLE.
- SEAMS: CLEAN SEAM AREAS, OVERLAP ROOFING MEMBRANE, AND HOT-AIR WELD SIDE AND END LAPS OF 3.93 ROOFING MEMBRANE ACCORDING TO MANUFACTURER'S WRITTEN INSTRUCTIONS TO ENSURE A WATERTIGHT SEAM INSTALLATION. TEST LAP EDGES WITH PROBE TO VERIFY SEAM WELD CONTINUITY. APPLY LAP SEALANT TO SEAL
  - CUT EDGES OF ROOFING MEMBRANE. VERIFY FIELD STRENGTH OF SEAMS A MINIMUM OF TWICE DAILY AND REPAIR SEAM SAMPLE AREAS
  - REMOVE AND REPAIR ANY UNSATISFACTORY SECTIONS BEFORE PROCEEDING WITH WORK. REPAIR TEARS, VOIDS, AND LAPPED SEAMS IN ROOFING MEMBRANE THAT DO NOT MEET REQUIREMENTS.
- SPREAD SEALANT OR MASTIC BEAD OVER DECK DRAIN FLANGE AT DECK DRAINS AND SECURELY SEAL 3.94 ROOFING MEMBRANE IN PLACE WITH CLAMPING RING.
- IN-SPLICE ATTACHMENT: SECURE ONE EDGE OF ROOFING MEMBRANE USING FASTENING PLATES OR 3.95 METAL BATTENS CENTERED WITHIN MEMBRANE SPLICE AND MECHANICALLY FASTEN ROOFING MEMBRANE TO ROOF DECK. FIELD-SPLICE SEAM.
- 3.96 INSTALL ROOFING MEMBRANE AND AUXILIARY MATERIALS TO TIE INTO EXISTING ROOFING.

## INDUCTION WELDED ROOFING MEMBRANE INSTALLATION

- INSTALL ROOFING MEMBRANE OVER AREA TO RECEIVE ROOFING ACCORDING TO ROOFING SYSTEM 3.97 MANUFACTURER'S WRITTEN INSTRUCTIONS. UNROLL ROOFING MEMBRANE AND ALLOW TO RELAX BEFORE INSTALLING.
- 3.98 ACCURATELY ALIGN ROOFING MEMBRANES AND MAINTAIN UNIFORM SIDE AND END LAPS OF MINIMUM DIMENSIONS REQUIRED BY MANUFACTURER. STAGGER END LAPS.
- 3.99 ALWAYS INSTALL MEMBRANE LAPS PERPENDICULAR TO THE STEEL DECK FLUTES. "PICTURE FRAME" INSTALLATION METHOD IS NOT PERMITTED.
- 3.100 APPLY ROOFING MEMBRANE WITH SIDE LAPS SHINGLED WITH ROOF SLOPE, WHERE POSSIBLE.
- 3.101 SEAMS: CLEAN SEAM AREAS, OVERLAP ROOFING MEMBRANE, AND HOT-AIR WELD SIDE AND END LAPS OF ROOFING MEMBRANE ACCORDING TO MANUFACTURER'S WRITTEN INSTRUCTIONS TO ENSURE A
  - WATERTIGHT SEAM INSTALLATION. TEST LAP EDGES WITH PROBE TO VERIFY SEAM WELD CONTINUITY. APPLY LAP SEALANT TO SEAL
  - CUT EDGES OF ROOFING MEMBRANE. VERIFY FIELD STRENGTH OF SEAMS A MINIMUM OF TWICE DAILY AND REPAIR SEAM SAMPLE AREAS. REMOVE AND REPAIR ANY UNSATISFACTORY SECTIONS BEFORE PROCEEDING WITH WORK.
  - REPAIR TEARS, VOIDS, AND LAPPED SEAMS IN ROOFING MEMBRANE THAT DO NOT MEET REQUIREMENTS.
- 3.102 SPREAD SEALANT OR MASTIC BEAD OVER DECK DRAIN FLANGE AT DECK DRAINS AND SECURELY SEAL ROOFING MEMBRANE IN PLACE WITH CLAMPING RING.
- 3.103 INDUCTION WELDING INSTALLATION:

PERFORM CALIBRATION AND SET-UP AS DETAILED BY THE INDUCTION WELDER OWNER'S MANUAL CENTER THE INDUCTION WELDER OVER THE FIRST PLATE IN PATTERN AND ACTIVATE THE WELD. INDUCTION WELDER SHALL BE CENTERED OVER THE PLATE TO CREATE A 100% BOND. IF AN ERROR OCCURS DURING ACTIVATION, REFER TO THE INDUCTION WELDER OWNER'S MANUAL FOR CORRECTIVE ACTION.

RELEASED FOR CONSTRUCTION s Noted on Plans Revi ent Services D Lee's Summit, Misso 07/03/2024

|                 | C.<br>D.<br>E.                  | PRIOR TO EVERY USE, CLEAN FACE OF HEAT SINK MAGNET.<br>PLACE HEAT SINK MAGNET OVER THE WELDED PLATE.<br>i. KEEP HEAT SINK MAGNET IN PLACE AT LEAST 45 SECONDS WHILE THE ASSEMBLY COOLS.<br>REPEAT PROCESS FOR EACH PLATE.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
|-----------------|---------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| SELF-A          | ADHERED                         | ROOFING MEMBRANE INSTALLATION                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| 3.104           |                                 | L ROOFING MEMBRANE OVER AREA TO RECEIVE ROOFING IN ACCORDANCE WITH MEMBRANE<br>IG SYSTEM MANUFACTURER'S WRITTEN INSTRUCTIONS.<br>UNROLL ROOFING MEMBRANE AND ALLOW TO RELAX BEFORE INSTALLING (MINIMUM 15-30 MINUTES,<br>COLDER TEMPERATURES MIGHT REQUIRE LONGER RELAXATION TIMES).<br>INSTALL SHEET IN ACCORDANCE WITH ROOFING SYSTEM MANUFACTURER'S WRITTEN<br>INSTRUCTIONS.                                                                                                                                                                                                                                                                                                                                                                                        |
| 3.105           |                                 | ATELY ALIGN ROOFING MEMBRANE AND MAINTAIN UNIFORM SIDE AND END LAPS OF MINIMUM<br>SIONS REQUIRED BY MANUFACTURER.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| 3.106           |                                 | SHEET END LAPS OF CONSECUTIVE MEMBRANES. THE END LAPS WILL BE STRIPPED IN WITH MINIMUM JM TPO REINFORCED COVER STRIP PER MANUFACTURER'S WRITTEN INSTRUCTIONS.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| 3.107           | SELF-AI<br>A.<br>B.<br>C.<br>D. | DHERE MEMBRANE TO APPROVED SUBSTRATE PER MANUFACTURER'S WRITTEN INSTRUCTIONS.<br>KEEP ALL FLAMMABLE MATERIALS AWAY WHILE PEELING THE RELEASE LINER.<br>ADJUST SPEED AND TENSION ON MEMBRANE TO AVOID WINKLES IN THE MATERIAL.<br>BROOM MEMBRANE IN ONCE BOTH SIDES ARE DOWN TO PROMOTE ADHESION AND ASSIST IN<br>REMOVING AIR POCKETS.<br>ROLL-IN ADHERED MEMBRANE WITH 100LB SPLIT ROLLER COMPLETELY.                                                                                                                                                                                                                                                                                                                                                                 |
| 3.108           |                                 | NICALLY FASTEN ROOFING MEMBRANE SECURELY AT TERMINATIONS, PENETRATIONS, AND<br>TER OF ROOFING.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| 3.109           | APPLY                           | ROOFING MEMBRANE WITH SIDE LAPS SHINGLED WITH ROOF SLOPE, WHERE POSSIBLE.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| 3.110           | MEMBR                           | <ul> <li>CLEAN SEAM AREAS, OVERLAP ROOFING MEMBRANE, AND HOT-AIR WELD SIDE LAPS OF ROOFING<br/>ANE ACCORDING TO MANUFACTURER'S WRITTEN INSTRUCTIONS TO ENSURE A WATERTIGHT SEAM<br/>LATION.</li> <li>TEST LAP EDGES WITH PROBE TO VERIFY SEAM WELD CONTINUITY. APPLY LAP SEALANT TO SEAL<br/>CUT EDGES OF ROOFING MEMBRANE.</li> <li>VERIFY FIELD STRENGTH OF SEAMS A MINIMUM OF TWICE DAILY AND REPAIR SEAM SAMPLE AREAS.</li> <li>REMOVE AND REPAIR ANY UNSATISFACTORY SECTIONS BEFORE PROCEEDING WITH<br/>INSTALLATION.</li> <li>END LAPS ARE SEAMED BY STRIPPING WITH 8-INCH REINFORCED COVER STRIP FOLLOWING<br/>STANDARD PRACTICES.</li> <li>REPAIR TEARS, VOIDS, AND INCORRECTLY LAPPED SEAMS IN ROOFING MEMBRANE THAT DO NOT<br/>MEET REQUIREMENTS.</li> </ul> |
| 3.111           |                                 | D SEALANT OR MASTIC BEAD OVER DECK DRAIN FLANGE AT DECK DRAINS AND SECURELY SEAL<br>IG MEMBRANE IN PLACE WITH CLAMPING RING.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| 3.112           |                                 | L ROOFING MEMBRANE AND AUXILIARY MATERIALS TO TIE INTO EXISTING ROOFING.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| BASE  <br>3.113 | INSTAL                          | <u>S INSTALLATION</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| 3.114           | APPLY                           | ANE ROOFING SYSTEM MANUFACTURER'S WRITTEN INSTRUCTIONS.<br>SOLVENT-BASED BONDING ADHESIVE AT REQUIRED RATE AND ALLOW TO PARTIALLY DRY. DO NOT                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| 3.115           | APPLY                           | BONDING ADHESIVE TO SEAM AREA OF FLASHING.<br>WATER-BASED BONDING ADHESIVE IN TWO-SIDED APPLICATION, AT REQUIRED RATE, AND ALLOW TO                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| 3.116           | PARTIA                          | LLY DRY. DO NOT APPLY BONDING ADHESIVE TO SEAM AREA OF FLASHING.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| 0.110           |                                 | DHERE MEMBRANE TO SMOOTH APPROVED SUBSTRATES, WHEN SUBSTRATE TEMPERATURES ARE<br>5°C) AND RISING.<br>THE USE OF SA PRIMER OR SA LVOC PRIMER IS REQUIRED FOR FLASHING APPLICATIONS ON CURBS<br>AND PARAPET WALLS FOR TEMPERATURES BETWEEN 40°F (4.5°C) AND 20°F (-7°C).<br>THE USE OF SA PRIMER OR SA LVOC PRIMER IS REQUIRED FOR FLASHING APPLICATIONS OVER<br>APPROVED SUBSTRATES WITH A POROUS OR ROUGH SURFACE, INCLUDING: DENS DECK PRIME,<br>DENS DECK, DEXCELL, CONCRETE AND SMOOTH FACES CMU.                                                                                                                                                                                                                                                                   |
| 3.117<br>3.118  | FLASH                           | SINGLE PLY LIQUID APPLIED FLASHING SYSTEM PER MANUFACTURER'S WRITTEN INSTRUCTIONS.<br>PENETRATIONS AND FIELD-FORMED INSIDE AND OUTSIDE CORNERS PER MANUFACTURER'S<br>LATION INSTRUCTIONS.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| 3.119           |                                 | SEAM AREAS AND OVERLAP AND FIRMLY ROLL SHEET FLASHINGS INTO THE ADHESIVE. WELD SIDE<br>ID LAPS TO ENSURE A WATERTIGHT SEAM INSTALLATION.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| 3.120           | TERMIN                          | IATE AND SEAL TOP OF SHEET FLASHINGS AND MECHANICALLY ANCHOR TO SUBSTRATE THROUGH<br>IATION BARS.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| EDGE            |                                 | ISTALLATION                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| 3.121           | INSTAL                          | IE SUBSTRATES AND CONDITIONS UNDER WHICH SHEET METAL FLASHING AND TRIM ARE TO BE<br>LED AND VERIFY THAT WORK MAY PROPERLY COMMENCE. DO NOT PROCEED WITH INSTALLATION<br>INSATISFACTORY CONDITIONS HAVE BEEN CORRECTED.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| 3.122           |                                 | DE EDGE DETAILS AS INDICATED ON THE DRAWINGS. INSTALL IN ACCORDANCE WITH THE MEMBRANE<br>ACTURER'S REQUIREMENTS AND SMACNA'S "ARCHITECTURAL SHEET METAL MANUAL."                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| 3.123           |                                 | DIVIDUAL SECTIONS IN ACCORDANCE WITH THE MEMBRANE MANUFACTURER'S REQUIREMENTS AND A'S "ARCHITECTURAL SHEET METAL MANUAL."                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| <u>SLIP S</u>   | HEET INS                        | TALLATION                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| 3.124           |                                 | L POLYESTER SLIP SHEET AS A LOOSELY LAID SINGLE LAYER ABOVE SINGLE PLY MEMBRANE, PER<br>ACTURER'S WRITTEN INSTRUCTIONS.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| WALK            | WAY INST                        | ALLATION                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| 3.125           | WALKW                           | LE WALKWAYS: INSTALL WALKWAY PRODUCTS IN LOCATIONS INDICATED. HEAT WELD AND ADHERE<br>AY PRODUCTS TO SUBSTRATE ACCORDING TO ROOFING SYSTEM MANUFACTURER'S WRITTEN<br>CTIONS.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| 3.126           |                                 | PAVER WALKWAYS: INSTALL WALKWAY ROOF PAVERS WITH APPLICABLE SLIP SHEET PER<br>ACTURER'S WRITTEN INSTRUCTIONS IN LOCATIONS INDICATED, TO FORM WALKWAYS.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| FIELD           | QUALITY                         | CONTROL                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| 3.127           |                                 | R OR DESIGNATED REPRESENTATIVE WILL PROVIDE ON-SITE OBSERVATION AND INSPECTION DURING LATION.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| 3.128           |                                 | WILL ENGAGE A QUALIFIED INDEPENDENT TESTING AND INSPECTING AGENCY TO PERFORM ROOF AND INSPECTIONS AND TO PREPARE TEST REPORTS.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| 3.129           |                                 | COOF INSPECTION: ARRANGE FOR ROOFING SYSTEM MANUFACTURER'S TECHNICAL<br>SENTATIVE TO INSPECT ROOFING INSTALLATION ON COMPLETION AND SUBMIT REPORT TO<br>ECT.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| 3.130           | REPAIR                          | OR REMOVE AND REPLACE COMPONENTS OF ROOFING SYSTEM WHERE TEST RESULTS OR<br>TIONS INDICATE THAT THEY DO NOT COMPLY WITH SPECIFIED REQUIREMENTS.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| 3.131           | ADDITIC                         | DNAL TESTING AND INSPECTING, AT CONTRACTOR'S EXPENSE, WILL BE PERFORMED TO DETERMINE<br>IANCE OF REPLACED OR ADDITIONAL WORK WITH SPECIFIED REQUIREMENTS.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| PROTE           |                                 | ND CLEANING                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| 3.132           |                                 | CT ROOFING SYSTEM FROM DAMAGE AND WEAR DURING REMAINDER OF CONSTRUCTION PERIOD.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |

3.132 PROTECT ROOFING SYSTEM FROM DAMAGE AND WEAR DURING REMAINDER OF CONSTRUCTION PERIOD.

3.133 CORRECT DEFICIENCIES IN OR REMOVE ROOFING SYSTEM THAT DOES NOT COMPLY WITH REQUIREMENTS, REPAIR SUBSTRATES, AND REPAIR OR REINSTALL ROOFING SYSTEM TO A CONDITION FREE OF DAMAGE AND DETERIORATION AT TIME OF SUBSTANTIAL COMPLETION AND ACCORDING TO WARRANTY REQUIREMENTS.

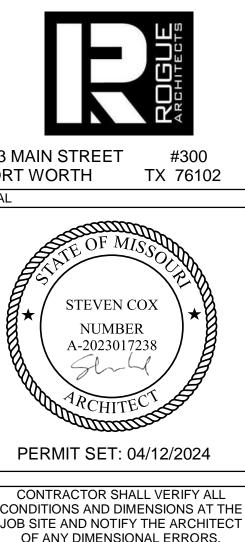
3.134 CLEAN OVERSPRAY AND SPILLAGE FROM ADJACENT CONSTRUCTION USING CLEANING AGENTS AND PROCEDURES RECOMMENDED BY MANUFACTURER OF AFFECTED CONSTRUCTION.

END OF SECTION 075423



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| PROJECT INFORMATION |          |            |  |  |
|---------------------|----------|------------|--|--|
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| ORIGINAL ISSUE:     |          | 06/01/2023 |  |  |
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SCALE:

# SPECIFICATIONS

### SECTION 07 65 00 / FLASHING SUBMIT SHOP DRAWINGS COMPLYING WITH SECTION 01 33 00 FOR WORK IN THIS SECTION DRAWINGS SHALL INDICATE TYPE OF MATERIAL, GAUGE, DIMENSIONS, FASTENING AND ANCHORING METHODS, JOINTS, AND PROVISIONS OF EXPANSION AND CONTRACTION STANDARDS: QUALITY, PROCEDURES AND METHODS RECOMMENDED BY SMACNA ARCHITECTURAL SHEET 1.1 METAL MANUAL COORDINATE TRADE JURISDICTION WITH RESPECT TO INSTALLING SHEET METAL ITEMS IN CONJUNCTION 1.2 WITH THE ROOFING. REFER TO MEMBRANE ROOFING SECTION OR ROOFING MATERIAL SECTIONS FOR INSTALLATION PROCEDURES FOR ROOFING RELATED ITEMS. 1.3 PROVIDE THE SHEET METAL ITEMS IN SUFFICIENT TIME TO AVOID DELAYS TO THE CONSTRUCTION PROGRESS. INVESTIGATE THE REQUIREMENTS OF THE ROOFING MANUFACTURER AS RELATED TO SHEET METAL ITEMS. 1.4 QUALITY AND INSTALLATION SHALL CONFORM TO THE ROOFING MANUFACTURER'S REQUIREMENTS, TO PERMIT THE ISSUANCE OF THE REQUIRED GUARANTEES. 1.5 TO BE PAINTED IN FIELD. MATERIALS 2.1 GALVANIZED SHEET METAL: ASTM A 525, GAUGES AS INDICATED (24-GAUGE MINIMUM). SOLDER: ASTM B 32, 50% TIN AND 50% LEAD, USED WITH ROSIN FLUX. 2.2 PLASTIC CEMENT: FS SS C 153, TYPE 1 2.3 SEALANT: ASTM C 920 TYPE M, GRADE NS, CLASS 25, USE NT, M, A, O. REGLETS 8 GOUNTERFLASHING: AS MANUFACTURED BY FRY REGLET CORPORATION, TYPE ST, MA, CO, SM. 2.4 SOFFIT LOUVER STRIPS: AS MANUFACTURED BY AMPCOR, ANDERSON METAL PRODUCTS, INC., 2.5 TAYLORSVILLE, MISSISSIPPI, TYPE SAL 8, 2 3/4" WIDTH. 2.6 NAILS, SCREWS, RIVETS: SAME MATERIAL AS FLASHING SHEET, OR AS RECOMMENDED BY MANUFACTURER OF FLASHING SHEET. 2.7 CLEATS: METAL AND GAUGE AS SHEETS BEING ANCHORED, 2" WIDE, PUNCHED FOR 2 ANCHORS. 2.8 ROOFING FELT: ASTM D 226, 15 POUND TYPE OR 30 POUND TYPE. 2.9 BITUMINOUS COATING: FS TT C 494 OR SSPC PAINT 12, DRY FILM 15 MILS PER COAT. EXECUTION SURFACES TO RECEIVE SHEET METAL SHALL BE SOUND, CLEAN, DRY, AND FREE FROM PROJECTIONS OR 3.1 OTHER DEFECTS THAT WOULD AFFECT THE APPLICATION. REPORT ANY UNSATISFACTORY SURFACES TO THE ARCHITECT. WHERE DISSIMILAR MATERIALS ABUT, PROVIDE PROPER SEPARATION OR PROTECTION TO MINIMIZE THE 3.2 POSSIBILITY OF GALVANIC ACTION. 3.3 PROVIDE FOR THERMAL EXPANSION OF RUNNING TRIM, FLASHING, EXPANSION JOINTS, AND OTHER ITEMS EXPOSED FOR MORE THAN 15 FEET CONTINUOUS LENGTH. MAINTAIN A WATERTIGHT INSTALLATION AT EXPANSION SEAMS. LOCATE EXPANSION SEAMS AS SHOWN, OR IF NOT SHOWN, AT THE FOLLOWING MAXIMUM SPACING FOR EACH GENERAL FLASHING USE: FLASHING, EXPANSION JOINTS, GRAVEL STOPS, AND TRIM: AT 10 FOOT INTERVALS, AND 24" ON EACH SIDE 3.4 OF GORNERS AND INTERSEGTIONS. 3.5 SEALANT TYPE EXPANSION JOINTS: WHERE SEALANT FILLED EXPANSION JOINTS ARE USED, EMBED THE HOOKED FLANGES OF THE JOINT MEMBERS NOT LESS THAN 1" INTO THE SEALANT. FORM JOINTS TO COMPLETELY CONCEAL THE SEALANT. WHEN AMBIENT TEMPERATURE IS MODERATE AT THE TIME OF INSTALLATION (400 TO TOO F.), SET JOINT MEMBERS FOR 50% MOVEMENT EITHER WAY. ADJUST SETTING PROPORTIONATELY FOR INSTALLATION AT HIGHER AMBIENT TEMPERATURES. DO NOT INSTALL SEALANT TYPE JOINTS AT TEMPERATURES BELOW 400 F. INSTALLATION OF SEALANT IS SPECIFIED IN SECTION 07900. 3.6 FABRICATE AND INSTALL SHEET METAL WITH LINES, ARISE, AND ANGLES SHARP AND TRIM, AND PLANE SURFACES FREE FROM OBJECTIONAL WAVE, WARP OR BUCKLE. HEM EXPOSED EDGES TO FORM A 1/2" WIDE HEM ON THE SIDE CONCEALED FROM VIEW. 3.7 FORMING, ANGHORING, EXPANSION AND CONTRACTION DETAILS, SHALL CONFORM TO THE GURRENT EDITION OF THE SMACNA MANUAL. SOLDERING 4.1 EXGEPT WHERE OTHER METHODS OF JOINING ARE INDICATED OR SPECIFIED, SOLDER JOINTS, AND CONNECTIONS OF SHEET METAL WORK. 4.2 REMOVE GREASE AND DIRT FROM METAL SURFACES TO BE JOINED. 4.3 REMOVE FLUX RESIDUE BY SCRUBBING, NEUTRALIZING WITH AMMONIA OR A 5 10% SOLUTION OF WASHING SODA AND FOLLOWED BY A GLEAR WATER RINSE. ASSEMBLE PARTS AND SOLDER USING REGULAR NON-CORROSIVE ROSIN FLUX. HEAT METAL THOROUGHLY. 4.4 TO COMPLETELY SWEAT SOLDER THROUGH FULL CONTACT AREA. REGLETS 5.1 PROVIDE WATERTIGHT REGLETS IN MASONRY, CONCRETE OR STUCCO TO REGEIVE CAP FLASHINGS. COUNTERFLASHING 6.1 LOCATIONS INDICATED. 6.2 WHERE COUNTERF LASHING TERMINATES IN REGLETS, FASTEN FLASHING WITH LEAD WEDGES EVERY 12". 6.3 PROVIDE A SPRING ACTION AT BOTTOM EDGE AGAINST THE BUILT-UP FLASHING. COPINGS AND METAL CAP FLASHING

- PROVIDE METAL COUNTERFLASHING AT TOP EDGES OF BUILT-UP BASE FLASHINGS AND AT OTHER
- FORM FLASHING IN 8 OR 10 FOOT LENGTHS, EXCEPT WHERE SHORTER PIECES ARE REQUIRED; LAP END JOINTS A MINIMUM OF 3". DO NOT SOLDER OR WELD JOINTS. MAKE FLASHING CONTINUOUS AT ANGLES. COUNTERFLASHING SHALL OVERLAP BASE FLASHING A MINIMUM OF 4". UNLESS OTHERWISE INDICATED.
- FILL REGL ETS CONTINUOUSLY WITH SEALING COMPOUND AS HEREINBEFORE SPECIFIED.WH ERE PREFABRICATED COUNTERF LASHING AND REGLET SYSTEM IS USED, FORM THE UPPER EDGE OF COUNTERFLASHING WITH AN APPROVED SNAP LOCK FLANGE TO ENGAGE THE REGLET RECEIVER AND TO
- 7.1 COVER TOP OF PARAPET WALLS WHERE INDICATED WITH 24 GAUGE GALVANIZED METAL COPING FORMED TO DESIGN SHOWN. BEFORE APPLYING METAL, COVER TOP OF WALL OR WOOD BLOCKING WITH ASPHALT FELT. FABRICATE THE CROSS-JOINTS BETWEEN COPING SHEETS WITH A 3/16" EXPANSION JOINT BETWEEN SHEETS AND A 6" WIDE BACK UP PLATE OR COVER PLATE FORMED TO PROFILE OF COPING. FILL SPACE BETWEEN COPING AND PLATES WITH SYNTHETIC RUBBER SEALANT. THE METHOD OF FORMING CROSS-JOINTS IN COPING SHALL BE IN ACCORDANCE WITH DETAILS ON PLATE 76, CHART 12, J2, J4, J5 OF THE SMACNA ARCHITECTURAL SHEET METAL MANUAL.
- EXTEND FRONT EDGE OF COPING COVERING DOWN OVER THE LOCK INTO A PREVIOUSLY PLACED 7.2 CONTINUOUS EDGE STRIP. SECURE EDGE STRIPS WITH NAILS SPACED 12" APART, JOIN REAR EDGE OF GOPING COVERING TO ADJACENT FLASHINGS AS INDICATED. MITER CORNERS OF COPING, SEAM AND SEAL WITH SOLDER.

## SECTION 07 72 00 / ROOF ACCESSORIES

- 1.1 SPECIFICATION IS BASED ON PRODUCTS MANUFACTURED BY ROOF PRODUCTS, INC.
- COMPARABLE PRODUCTS MEETING OR EXCEEDING SPECIFICATION REQUIREMENTS AS MANUFACTURED BY 1.2 THYBAR CORP OR ROOF PRODUCTS AND SYSTEMS CORP, ARE ACCEPTABLE.

## **ROOF CURBS (STRUCTURAL)**

- 2.1 CURBS SHALL BE MODEL RPC-1 OF BOX SE ATION DESIGN, 18-GAUGE GALVANIZED STEEL CONSTRUCTION, CONTINUOUS MITERED AND WELDED CORNER SEAMS, INTEGRAL BASE PLATE, FACTORY INSTALLED WOOD NAILER, INSULATED WITH 1 1/2" THICK RIGID FIBERGLASS BOARD INSULATION. EQUIPMENT SUPPORTS.
- 2.2 EQUIPMENT SUPPORTS SHALL BE MODEL RPES-1 OF MONOLITHIC CONSTRUCTION, 18-GAUG E GALVANIZED STEEL, CONTINUOUS MITERED AND WELDED CORNER SEAMS, INTEGRAL BASE PLATE, AND FACTORY INSTALLED 2 X 4 WOOD NAILER, AND 18-GAUGE GALVANIZED STEEL COUNTER FLASHING.

# EXPANSION JOINT CURBS (SINGLE SIDE)

CURBS SHALL BE MODEL RPEJ-1 10" HIGH, MONOLITHIC CONSTRUCTED OF 20-GAUGE GALVANIZED STEEL 3.1 WITH WELDED COMPONENTS, FULL MITERED CORNERS, FACTORY INSTALLED 1/2" THICK RIGID FIBERGLASS BOARD INSULATION, ATTACH ED PRESSURE-TREATED WOOD 2X2 NAILER AND 2" MOUNTING FLANGE.

## PIPE SEAL

PIPE SEALS SHALL BE 3" OR 6" CONSISTING OF A SPUN ALUMINUM BASE HAVING A MINIMUM 5" ROOF 4.1 SURFAGE FLANGE, A STEPPED PVC BOOT TO BE SECURED TO THE BASE AND THE PIPE WITH ADJUSTABLE STAINLESS-STEEL CLAMPS AS FURNISHED. USE AT ROOF PIPE PENETRATIONS UP TO 6" OD, EXCEPT PLUMBING STALKS.

### PIPE CURB ASSEMBLIES (VERTICAL)

5.1 PIPE CURB ASSEMBLIES SHALL BE MODEL RPVP-3 WITH CURB CONSTRUGTED OF 18-GAUGE GALVANIZED STEEL WITH CONTINUOUS WELDED CORNER SEAMS, FACTORY INSTALLED 2X2 PRESSURE-TREATED WOOD NAILER AND SHALL BE INSULATED WITH 1 1/2" THICK RIGID FIBERGLASS BOARD INSULATION. COUNTER FLASHING CAP SHALL BE 20-GAUGE GALVANIZED STEEL INCLUDING GRADUATED STEP PVC BOOTS, ADJUSTABLE STAINLESS STEEL CLAM PS AND CAP FASTENING SCREWS. EACH ASSEMBLY TO INCLUDE CURB, CAP, BOOTS AND CLAMP.

# SECTION 07 92 00 / JOINT SEALANTS

# **GUARANTEE**

|                | GUARANTEE |                                                                                                                                                                                      |  |  |  |
|----------------|-----------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|--|--|
|                | 1.1       | CAULKING AND SEALANT SHALL REC                                                                                                                                                       |  |  |  |
| JOB CONDITIONS |           |                                                                                                                                                                                      |  |  |  |
|                | 2.1       | DO NOT APPLY SEALANTS IN TEMPE<br>SURFACES THAT ARE WET. CAULK J<br>COLOR OR STAIN WATERPROOFING                                                                                     |  |  |  |
|                | MATER     | IALS                                                                                                                                                                                 |  |  |  |
|                | 3.1       | SEALANT SHALL BE SILICONE BASE<br>MANUFACTURED BY DOW CORNING<br>SHALL BE AS SELECTED. SEALANTS<br>A. TRAFFIC JOINTS AND HORIZ                                                       |  |  |  |
|                | 3.2       | OTHER JOINTS: ASTM TYPE S, GRAD                                                                                                                                                      |  |  |  |
|                | 3.3       | SEALANT SHALL BE ACRYLIC LATEX                                                                                                                                                       |  |  |  |
|                | 3.4       | SEALANTS USED ON EXTERIOR OF F                                                                                                                                                       |  |  |  |
|                | 3.5       | SEALANTS USED ON INTERIOR OF PI                                                                                                                                                      |  |  |  |
|                | 3.6       | SEALANTS IN FOOD SERVICE, FOOD POLYURETHANE BASE.                                                                                                                                    |  |  |  |
|                | 3.7       | PRIMER: OF A TYPE COMPATIBLE WI<br>MANUFACTURER. THE PRIMER SHAL                                                                                                                     |  |  |  |
|                | 3.8       | BACK UP MATERIALS AND PREFORM<br>SEALANT AND PRIMER, AND OF A RE<br>CELL URETHANE OR NEOPRENE ROU<br>MATERIALS IMPREGNATED WITH OIL<br>SHAPE SHALL BE AS RECOMMENDED<br>UP MATERIAL. |  |  |  |
|                | 3.9       | BOND BREAKERS (WHERE REQUIRE<br>MANUFACTURER OF SEALANT.                                                                                                                             |  |  |  |
|                | 3.10      | SOLVENTS, CLEANING AGENTS AND MANUFACTURER.                                                                                                                                          |  |  |  |
| EXECUTION      |           |                                                                                                                                                                                      |  |  |  |
|                | 4.1       | APPLY SEALANT UNDER PRESSURE<br>PROPER SIZE AND PROVIDE SUFFIC<br>SURFACES SHALL BE TOOLED TO PR                                                                                     |  |  |  |
|                | PREPA     | RATION:                                                                                                                                                                              |  |  |  |
|                | 5.1       | THOROUGHLY CLEAN JOINTS, REMO<br>DIRT AND FROST. SEALANT MUST BE<br>PRIMER MUST BE ENTIRELY REMOVE                                                                                   |  |  |  |
|                | 5.2       | POROUS MATERIALS SUCH AS CONO<br>GRINDING, BLAST CLEANING, MECH/<br>METHODS TO PROVIDE A CLEAN, SO<br>REMOVED BY ACID WASHING, GRIND<br>BLAST GLEANING.                              |  |  |  |
|                | 5.3       | LOOSE PARTICLES PRESENT OR RES<br>REMOVED BY BLOWING OUT JOINTS<br>APPLICATION OF PRIMER OR SEALA                                                                                    |  |  |  |
|                | 5.4       | NON-POROUS SURFAGES, SUCH AS<br>CHEMICALLY. PROTECTIVE COATING<br>LEAVES NO RESIDUE. SOLVENT SHA<br>WITHOUT WIPING.                                                                  |  |  |  |
|                | 5.5       | FOR JOINTS IN CONCRETE OR MASC<br>UP TO 1/4" WIDE. FOR JOINTS 1/2" TO<br>TO 2" WIDE, DEPTH SHALL NOT BE G<br>EXCEEDING 2" IN WIDTH, DEPTH SHA                                        |  |  |  |
|                | 5.6       | FOR JOINTS IN METAL, GLASS, AND                                                                                                                                                      |  |  |  |

- FOR JOINTS IN METAL, GLASS, AND OTHER NON-POROUS SURFACES: SEALANT DEPTH SHALL BE A MINIMUM 5.6 OF 1/2 THE APPLIED SEALANT WIDTH AND SHALL NOT EXCEED THE SEALANT WIDTH
- JOINTS TO RECEIVE SEALANT, BACK UP MATERIAL OR PRE-FORMED JOINT FILLER SHALL BE CLEANED, 57 RAKED TO FULL WIDTH AND DEPTH AS REQUIRED. JOINTS SHALL BE OF SUFFICIENT WIDTH AND DEPTH TO ACCOMMODATE SPECIFIED BACK UP MATERIAL OR PREFORMED JOINT FILLER AND SEALANT.
- 5.8 APPLICATION: INSTALL BACK UP MATERIAL OR JOINT FILLER, OF TYPE AND SIZE SPECIFIED, AT PROPER DEPTH TO PROVIDE SEALANT DIMENSIONS. BACK UP MATERIAL SHALL BE OF SUITABLE SIZE AND SHAPE: AND COMPRESSED 25% TO 50% TO FIT JOINTS AS REQUIRED. SEALANT SHALL NOT BE APPLIED WITHOUT BACK UP MATERIAL OR BOND BREAKER STRIP. WHEN USING BACK UP TUBE AVOID LENGTHWISE STRETCHING.
- 5.9 APPLY MASKING TAPE, WHERE REQUIRED, IN CONTINUOUS STRIPS IN ALIGNMENT WITH JOINT EDGE. 5.10 PRIME SURFACES WITH PRIMER WHERE RECOMMENDED BY MANUFACTURER. FOLLOW MANUFACTURER'S INSTRUCTIONS REGARDING MIXING, SURFACE PREPARATION, PRIMING, APPLICATION LIFE, AND
- APPLICATION PROCEDURE. 5.11 CLEAN ADJACENT SURFACES OF SEALANT AS WORK PROGRESSES. USE SOLVENT OR CLEANING AGENT AS RECOMMENDED BY MANUFACTURER.

### SCHEDULE

| 1 | PRO | VIDE CAULKING AT FOLLOWING LOCATIONS IN |
|---|-----|-----------------------------------------|
|   | CON | STRUED TO BE COMPLETE. PROVIDE CAULKING |
|   | Α.  | CONTROL JOINTS IN MASONRY AND CONCE     |
|   | В.  | PERIMETER OF WINDOW AND DOOR FRAME      |
|   | C.  | PERIMETER OF LOUVERS AND GRILLES.       |
|   | D.  | PERIMETER OF ALUMINUM SECTIONS AND      |
|   | E.  | TOP EDGE OF REGLET AND COUNTER FLAS     |
|   | F.  | TOP OF EDGE OF ELASTOMERIC FLOOR FIN    |
|   | G.  | AT INTERIOR PARTITIONS BAULKING IS REC  |
|   |     | WHERE THE JOINT WIDTH EXCEEDS 1/16".    |
|   |     |                                         |

### SANITARY CAULKING

7.1 TYPICAL JOINTS TO BE CAULKED ARE AS FOLLOWS: JUNCTURE OF WALL PANELS WITH FLOOR OR BASE:

- CEIVE A WRITTEN 5 YEAR GUARANTEE.
- ERATURES OR ON MATERIALS BELOW 40° F. DO NOT APPLY SEALANTS TO JOINTS BEFORE FINAL COAT OF PAINT OR BEFORE APPLICATION OF COMPOUNDS.
- CONFORMING TO FS TT S 001543, TYPE II, AND CLASS A, AS CORPORATION OR GENERAL ELECTRIC COMPANY. COLOR OF SEALANT S SHALL CONFORM TO THE FOLLOWING: ZONTAL JOINTS: ASTM TYPE S GRADE P, CLASS 25, USE T
- DE NS, CLASS 25, USE NT, M, A, O
- (BASE CONFORMING TO ASTM C834. COLORS SHALL BE AS SELECTED PROJECT ARE TO BE SINGLE COMPONENT POLYURETHANE BASE,
- TERIOR JOINTS. PROJECT ARE TO BE ACRYLIC LATEX BASE.
- PREPARATION AND FOOD STORAGE AREAS ARE TO BE SILICONE OR
- ITH EACH SPECIFIC SEALANT AS RECOMMENDED BY THE SEALANT LL HAVE BEEN TESTED FOR NON-STAINING CHARACTERISTICS.
- MED JOINT FILLERS SHALL BE NON-STAINING, COMPATIBLE WITH ESILIENT NATURE, SUCH AS CLOSED CELL POLYETHYLENE ROD, GLOSED DD, OR ELASTOMERIC TUBING OR ROD (NEOPRENE, BUTYL, OR EPDM). , BITUMEN OR SIMILAR MATERIALS SHALL NOT BE USED. SIZE AND ED BY SEALANT MANUFACTURER. SEALANT SHALL NOT ADHERE TO BACK
- ED:) SHALL BE POLYETHYLENE TAPE AS RECOMMENDED BY
- ACCESSORY MATERIALS SHALL BE AS RECOMMENDED BY SEALANT
- WITH HAND OR POWER ACTUATED GUN. GUN SHALL HAVE NOZZLE OF CIENT PRESSURE TO COMPLETELY FILL JOINTS AS DESIGNED. JOINT ROVIDE THE CONTOUR AS INDICATED.
- DVING FOREIGN MATTER SUCH AS DUST, OIL, GREASE, WATER, SURFACE E APPLIED TO THE BASE SURFACE. PREVIOUSLY APPLIED PAINT OR
- CRETE OR MASONRY SHALL BE CLEANED WHERE NECESSARY BY HANICAL ABRADING, ACID WASHING OR COMBINATION OF THESE OUND BASE SURFACE FOR SEALANT ADHESION. LAITANCE SHALL BE DING OR MECHANICAL ABRADING. FORM OILS SHALL BE REMOVED BY
- ESULTING FROM GRINDING, ABRADING OR BLAST CLEANING SHALL BE S WITH OIL FREE COMPRESSED AIR OR VACUUMING PRIOR TO
- METAL AND GLASS, SHALL BE CLEANED EITHER MECHANICALLY OR IGS ON METALLIC SURFACES SHALL BE REMOVED BY A SOLVENT THAT ALL BE USED WITH CLEAN CLOTHS. DO NOT ALLOW SOLVENT TO AIR DRY
- ONRY: DEPTH OF THE SEALANT MAY BE EOUAL TO THE WIDTH IN JOINTS O 1" WIDE: DEPTH SHALL BE 1/2". FOR EXPANSION AND OTHER JOINTS 1" GREATER THAN 1/2 THE APPLIED SEALANT WIDTH. FOR JOINTS HALL BE AS DIRECTED BY SEALANT MANUFACTURER.

- LOCATIONS INTERIOR AND EXTERIOR: (THIS SGHEDULE IS NOT TO BE OVIDE CAULKING AT OTHER AREAS AS REQUIRED.) NRY AND CONCRETE SURFACES. ND DOOR FRAMES.
- AND GRILLES. SECTIONS AND BELOW SILL MEMBERS.
- COUNTER FLASHING ASSEMBLIES.
- IERIC FLOOR FINISH AND CONCRETE CURBS. BAULKING IS REQUIRED AT JOINTS BETWEEN DISSIMILAR MATERIALS

- JUNCTURE OF EXHAUST HOODS WITH WALLS; JUNCTURE OF DOOR JAMBS OR JAMB COVERS WITH WALLS; JUNCTURE OF FIXTURE AND EQUIPMENT BASES AND LEGS WITH FLOOR AND WALL; JUNCTURE OF CONCRETE CURBS TO WALLS; AROUND PLUMBING FIXTURES.
- CONTRACTOR SHALL BE RESPONSIBLE FOR ACCEPTANCE OF CAULKING UNDER THIS DIVISION BY THE 7.2 HEALTH DEPARTMENT.

# SECTION 08 71 00 / DOOR HARDWARE

# PART 1 GENERAL

- 1.1 SUMMARY
- SECTION INCLUDES: HARDWARE AND RELATED ITEMS FOR INTERIOR AND EXTERIOR DOORS, OTHER A. THAN SPECIFIED IN SPECIFIC DOOR SECTIONS.

# SYSTEM DESCRIPTION

- PERFORMANCE REQUIREMENTS: THE MANUFACTURER OR AUTHORIZED DISTRIBUTOR SHALL CONFIRM THAT 1.2 THERE IS AN ESTABLISHED LOCAL AGENCY WHICH STOCKS A FULL COMPLEMENT OF PARTS AND OFFERS SERVICE DURING NORMAL WORKING HOURS FOR THE FINISH HARDWARE TO BE FURNISHED AND THAT THE AGENCY WILL SUPPLY PARTS WITHOUT DELAY AND AT REASONABLE COST.
- 1.3 FURNISH HARDWARE ITEMS OF PROPER DESIGN FOR USE IN DOORS AND FRAMES OF THE THICKNESSES, PROFILE, SECURITY AND SIMILAR REQUIREMENTS INDICATED, AS NECESSARY FOR PROPER INSTALLATION AND FUNCTION, REGARDLESS OF OMISSIONS OR CONFLICTS IN THE INFORMATION IN THE CONTRACT DOCUMENTS.

### SUBMITTALS

1.4

- SUBMIT SHOP DRAWINGS AND PRODUCT DATA OF EACH TYPE OF HARDWARE REQUIRED FOR PROJECT, IN ACCORDANCE WITH SECTION 01 33 00. INDICATE THE FOLLOWING: STYLE AND FINISH.
- LOCATIONS AND MOUNTING HEIGHTS OF EACH ITEM OF HARDWARE. USE ESTABLISHED NUMBERING
- INCLUDE A COMPLETE LISTING OF EQUIPMENT AND MATERIALS INCLUDING MANUFACTURER CATALOG NUMBER, FINISH, DIAGRAMS, (INCLUDING CUT-SHEETS), SCHEMATICS AND ALL OTHER PERTINENT DATA.
- TEMPLATES: SUPPLY TO DOOR AND FRAME MANUFACTURER(S) TO ENABLE PROPER AND ACCURATE SIZING 1.5 AND LOCATIONS OF CUTOUTS FOR HARDWARE.
- 1.6 CERTIFICATION:
  - AT THE COMPLETION OF INSTALLATION, CERTIFY THAT MATERIAL IS PROPERLY INSTALLED
- ACCORDING TO MANUFACTURERS PRINTED INSTRUCTIONS. SUBMIT CERTIFICATION THAT HARDWARE FOR FIRE RATED DOORS (INCLUDING DOORS AND FRAMES AS A UNIT) WILL COMPLY WITH UL 10C (POSITIVE PRESSURE TESTING.
- 1.7 OPERATING AND MAINTENANCE DATA: SUBMIT IN ACCORDANCE WITH SECTION 01 77 00. PROVIDE OWNER WITH MANUFACTURER'S PARTS LIST AND MAINTENANCE INSTRUCTIONS FOR EACH TYPE OF HARDWARE SUPPLIED AND NECESSARY WRENCHES AND TOOLS REQUIRED FOR PROPER MAINTENANCE OF HARDWARE.

## QUALITY ASSURANCE

1.9

- STANDARDS: COMPLY WITH THE FOLLOWING: 1.8
  - ANSI/NFPA 80 FIRE DOORS AND WINDOWS. UL STANDARD 305 - PANIC HARDWARE.
  - REGULATORY REQUIREMENTS:
    - COMPLY WITH THE FOLLOWING: ANSI A117.1, 2003 "ACCESSIBLE AND USABLE BUILDINGS AND FACILITIES."
    - PUBLIC LAW 101-336 "THE AMERICANS WITH DISABILITIES ACT OF 1990 (ADA).
    - ADA ACCESSIBILITY GUIDELINES (ADAAG) THE ARIZONANS WITH DISABILITIES ACT OF 1992 ADMINISTRATIVE RULES (AZDAAG)
- 1.10 HARDWARE LISTED OR FURNISHED SHALL MEET REQUIREMENTS OF FEDERAL, STATE AND LOCAL CODES HAVING JURISDICTION.
- 1.11 ANY ITEM FURNISHED OR INSTALLED THAT DOES NOT MEET CODE REQUIREMENTS SHALL BE REMOVED AND PROPER ITEMS SUBSTITUTED AT NO ADDITIONAL COST OR EXPENSE TO THE OWNER.
- PROVIDE HARDWARE FOR FIRE-RATED OPENINGS IN COMPLIANCE WITH A.I.A. (NBFU) PAMPHLET NO. 80 AND 1.12 NFPA STANDARDS NO. 80 AND NO. 101 AND UL 10(C) (POSITIVE PRESSURE TESTING). THIS REQUIREMENT SHALL TAKE PRECEDENCE OVER OTHER REQUIREMENTS FOR SUCH HARDWARE.
- 1.13 PROVIDE HARDWARE WHICH HAS BEEN TESTED AND LISTED BY U.L. FOR THE TYPES AND SIZES OF DOORS REQUIRED, AND WHICH COMPLIES WITH THE REQUIREMENTS OF THE DOORS AND DOOR FRAME LABELS.
- 1.14 PROVIDE 3-POINT LATCHES AT ALUMINUM DOUBLE DOORS USED AS ENTRANCE, NOT EGRESS EXIT.
- 1.15 HARDWARE ON ALL DOORS LEADING TO OR FROM ELECTRICAL ROOMS, MECHANICAL ROOMS, SERVICE STAIRS, DOCK AREAS AND THE LIKE WHICH REPRESENT A HAZARD TO THE BLIND, SHALL HAVE KNURLING OR ABRASIVE COATING ON THE DOOR LEVER, HANDLE, OR BAR WHICH WILL ALERT THE USER TO POTENTIAL PERILS PRESENT. THE HARDWARE PRODUCT AND INSTALLATION SHALL SATISFY ALL GOVERNING HANDICAPPED CODES.
- 1.16 SUPPLIER QUALIFICATIONS:
  - EMPLOY AN AHC MEMBER OF THE DHI. FACTORY AUTHORIZED STOCKING DISTRIBUTOR OF THE APPROVED ITEMS.
  - HOLDER OF LEGALLY REQUIRED LICENSES.
- 1.17 MANUFACTURER QUALIFICATIONS: 5 YEARS' EXPERIENCE IN MANUFACTURE OF COMPARABLE SYSTEMS.

## DELIVERY, STORAGE AND HANDLING

- 1.18 PACKING AND SHIPPING: PACKAGE EACH ITEM OF HARDWARE IN ORIGINAL AND INDIVIDUAL CONTAINERS. COMPLETE WITH ALL NECESSARY FASTENINGS, KEYS, INSTRUCTIONS, AND TEMPLATES FOR SPOTTING MORTISING TOOLS. MARK EACH CONTAINER WITH ITS ITEM NUMBER CORRESPONDING TO THE ITEM NUMBER ON THE
  - FINISH HARDWARE SCHEDULE. CONTAINERS HOLDING LOCKS SHALL SHOW THE FOLLOWING CORRESPONDING TO THAT SHOWN ON THE FINISH HARDWARE SCHEDULE: HEADING NUMBER
    - DOOR NUMBER
    - iii. HAND OF DOOR (WHEN REQUIRED) iv. KEYING SYMBOL (DEVELOPED BY OWNER)
    - v. A TYPEWRITTEN SCHEDULE IN DHI FORMAT CONFORMING WITH THE APPROVED SCHEDULE SHALL ACCOMPANY EACH SHIPMENT.
- 1.19 WHEN HARDWARE MUST BE INSTALLED AT THE FACTORY, THE HARDWARE SUPPLIER SHALL SEND ALL SUCH NEEDED ITEMS TO THE RESPECTIVE SUPPLIER FOR THEIR USE IN INSTALLATION. THE COST OF THIS SHIPPING REQUIREMENT SHALL BE BORNE BY THE HARDWARE SUPPLIER.
- 1.20 ACCEPTANCE AT SITE: UPON DELIVERY OF THE FINISH HARDWARE TO THE JOB SITE, CHECK IN AND SIGN FOR ALL MATERIAL DELIVERED AND THEREAFTER BE RESPONSIBLE FOR SAME.
- 1.21 STORAGE AND PROTECTION: PROVIDE A SECURED AREA WITH SUFFICIENT SPACE AND SHELVING IN WHICH TO STORE AND INVENTORY ALL MATERIALS UNDER LOCK AND KEY. PROTECT HARDWARE FROM DAMAGE AT ALL TIMES.

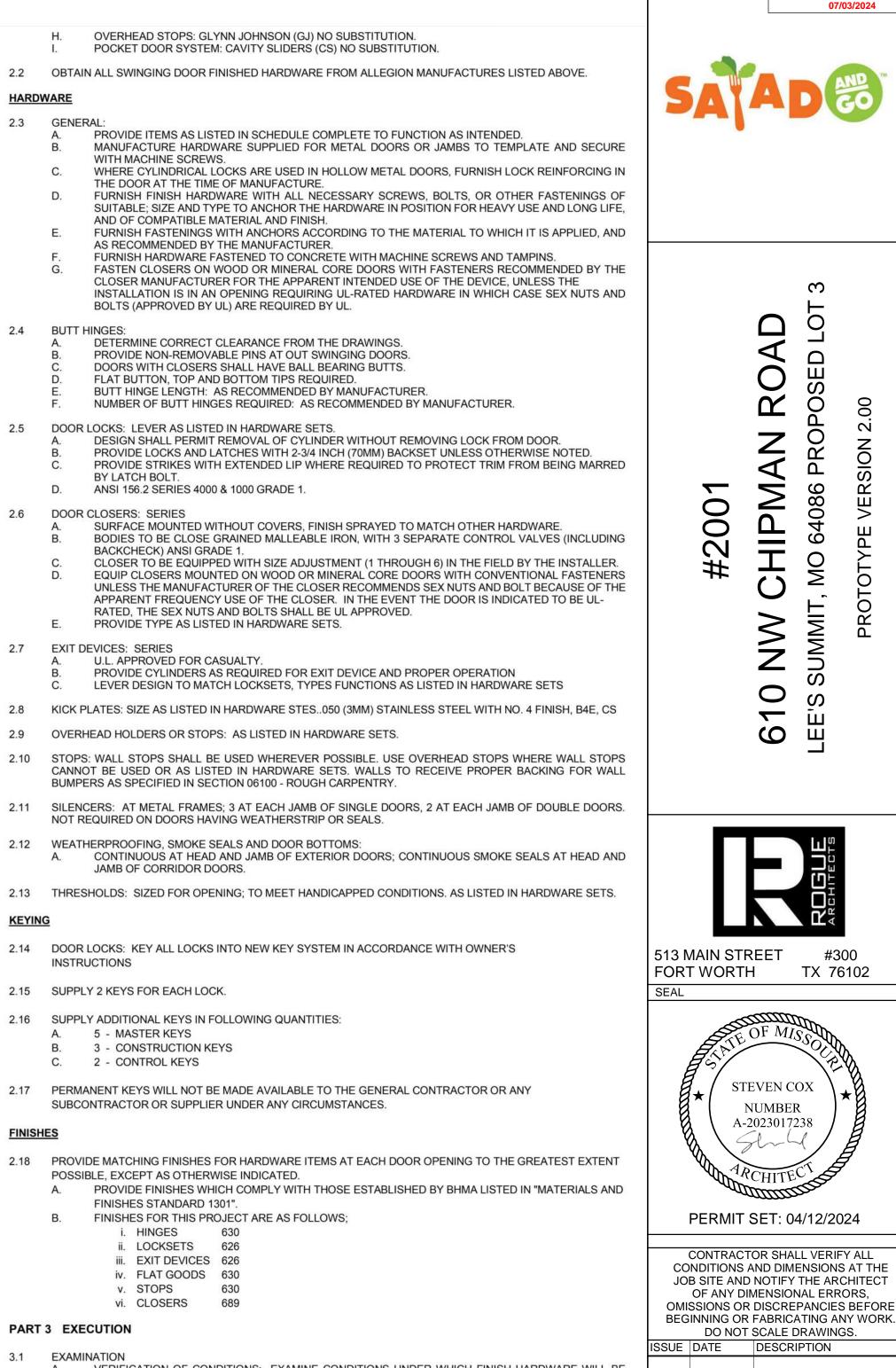
### WARRANTY

- 1.22 WARRANTY HARDWARE AGAINST DEFECTS IN MATERIALS AND WORKMANSHIP.REPAIR, REPLACE OR OTHERWISE CORRECT DEFICIENT MATERIALS AT NO ADDITIONAL COST TO OWNER. LOCKSETS: TEN-YEAR WARRANTY.
  - CLOSERS: THIRTY-YEAR WARRANTY EXIT DEVICE THREE-YEAR WARRANTY
- PART 2 PRODUCTS

# MANUFACTURERS

- 2.1 PRODUCT REQUIREMENTS OF THE SPECIFIED PRODUCT AS MANUFACTURED BY THE FOLLOWING. BUTT HINGES: IVES (IVE) NO SUBSTITUTION.
  - EXIT DEVICES: VON DUPRIN (VON) NO SUBSTITUTION.
  - LOCKSETS: SCHLAGE (SCH) NO SUBSTITUTION. CORE/CYLINDER: SCHLAGE (SCH) NO SUBSTITUTION.
  - DOOR CLOSERS: LCN (LCN) NO SUBSTITUTION.
  - THRESHOLDS, DOOR BOTTOMS, WEATHERSTRIPPING: ZERO (ZER) NO SUBSTITUTION. STOPS, KICKPLATES, PULLS, PUSH PLATES: IVES (IVE) NO SUBSTITUTION.

**RELEASED FOR** CONSTRUCTION Noted on Plans Revi ent Services D Lee's Summit, Misso



VERIFICATION OF CONDITIONS: EXAMINE CONDITIONS UNDER WHICH FINISH HARDWARE WILL BE INSTALLED. REPORT DEFICIENCIES TO THE ARCHITECT.

- 3.2 INSTALLATION
  - INSTALL HARDWARE IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS, USING PROPER A. TEMPLATES
  - MAINTAIN ANSI STANDARD MOUNTING HEIGHTS FOR DOORS, FROM FINISHED FLOOR TO CENTER LINE OF HARDWARE ITEM. KNOX BOX: RECESSED INTO WALL CONSTRUCTION AND RIGIDLY ANCHORED IN PLACE AT LOCATIONS INDICATED ON DRAWINGS IN ACCORDANCE WITH REQUIREMENTS FOR FIRE DEPARTMENT ACCESS.
- 3.3 CLEANING
- DURING THE COURSE OF THE WORK AND ON COMPLETION, REMOVE AND DISPOSE OF EXCESS MATERIALS, EQUIPMENT AND DEBRIS AWAY FROM PREMISES. LEAVE WORK IN CLEAN CONDITION.
- 3.4 PROJECT INFORMATION A. OPT0255205, V1, 03.29.2022

3.5 HARWARE

WHILE THE FOLLOWING HARDWARE SETS ARE INTENDED TO COVER ALL DOORS, AND ESTABLISH A TYPE AND STANDARD OF QUALITY, IT IS THE RESPONSIBILITY OF THE HARDWARE SUPPLIER TO EXAMINE THE PLANS AND SPECIFICATIONS AND FURNISH PROPER HARDWARE FOR ALL OPENINGS. THE HARDWARE SUPPLIER SHALL REVIEW THE ENTIRE SPECIFICATION VERSUS THE DOOR SCHEDULE AND NOTIFY THE ARCHITECT OF ANY ERRORS, INCONSISTENCIES, OR OMISSIONS DURING THE BID PERIOD.

3.6 ELECTRICAL DRAWINGS

ELEVATION RISER DIAGRAMS INCLUDED IN THIS SECTION AND/OR SECTION 28 1300 ARE BASED ON THE ELECTRIFIED PRODUCTS LISTED IN THE HARDWARE SETS. ANY DEVIATION FROM SPECIFIED HARDWARE PRODUCTS SHALL MAKE THE ELEVATION RISER DIAGRAMS NULL AND VOID. IF NON-SPECIFIED

SPECIFICATIONS

24-0087

P

06/01/2023

AS NOTED

J. JEFFERY

PROJECT INFORMATION

SHEET NUMBER

PROJECT NO:

SCALE:

DRAWN BY:

SHEET TITLE

CHECKED BY

ORIGINAL ISSUE



## INSTALLATION

INSTALL DOORS COMPLETELY AND ACCURATELY, COMPLETE WITH FINISH HARDWARE, INSTALL FINISH 6.1 HARDWARE IN A NEAT WORKMAN LIKE MANNER IN ACCORDANCE WITH THE HARDWARE SCHEDULE USING ONLY MECHANICS SKILLED IN THIS TYPE OF WORK.

### SECTION 08 41 13 / ALUMINUM-FRAMED STOREFRONTS

### PART 1 – GENERAL

- INSTALLER QUALIFICATIONS: AN ENTITY THAT EMPLOYS INSTALLERS AND SUPERVISORS WHO ARE FRAINED AND APPROVED BY MANUFACTURER.
- TESTING AGENCY QUALIFICATIONS: QUALIFIED ACCORDING TO ASTM E 699 FOR TESTING INDICATED AND ACCREDITED BY IAS OR ILAC MUTUAL RECOGNITION ARRANGEMENT AS COMPLYING WITH
- ISO/IEC 17025. PRODUCT OPTIONS: INFORMATION ON DRAWINGS AND IN SPECIFICATIONS ESTABLISHES REQUIREMENTS FOR AESTHETIC EFFECTS AND PERFORMANCE CHARACTERISTICS OF ASSEMBLIES. AESTHETIC EFFECTS ARE INDICATED BY DIMENSIONS, ARRANGEMENTS, ALIGNMENT, AND PROFILES
- OF COMPONENTS AND ASSEMBLIES AS THEY RELATE TO SIGHTLINES, TO ONE ANOTHER, AND TO ADJOINING CONSTRUCTION. DO NOT CHANGE INTENDED AESTHETIC EFFECTS, AS JUDGED SOLELY BY ARCHITECT, EXCEPT D. WITH ARCHITECT'S REVIEW.

### DELIVERY, STORAGE, AND HANDLING

- DELIVER ALUMINUM WORK PALLETIZED, PACKAGED, OR CRATED TO PROVIDE PROTECTION DURING 1.1 TRANSIT AND PROJECT-SITE STORAGE. DO NOT USE NON-VENTED PLASTIC. PROVIDE ADDITIONAL PROTECTION TO PREVENT DAMAGE TO FACTORY-FINISHED UNITS.
  - STORE ALUMINUM WORK VERTICALLY UNDER COVER AT PROJECT SITE WITH HEAD UP. PLACE ON

# MINIMUM 4- INCH- (102-MM-) HIGH WOOD BLOCKING. PROVIDE MINIMUM 1/4-INCH (6-MM) SPACE

1.2 SPECIAL WARRANTY: MANUFACTURER AGREES TO REPAIR OR REPLACE COMPONENTS OF ALUMINUM-FRAMED STOREFRONTS THAT DO NOT COMPLY WITH REQUIREMENTS OR THAT FAIL IN MATERIALS OR

- SPECIAL FINISH WARRANTY: STANDARD FORM IN WHICH MANUFACTURER AGREES TO REPAIR FINISHES OR REPLACE ALUMINUM THAT SHOWS EVIDENCE OF DETERIORATION OF FACTORYi. WARRANTY PERIOD: 10 YEARS FROM DATE OF SUBSTANTIAL COMPLETION.
- 2.1 GENERAL PERFORMANCE: COMPLY WITH PERFORMANCE REQUIREMENTS SPECIFIED, AS DETERMINED BY TESTING OF ALUMINUM-FRAMED ENTRANCES AND STOREFRONTS REPRESENTING THOSE INDICATED FOR THIS PROJECT WITHOUT FAILURE DUE TO DEFECTIVE MANUFACTURE, FABRICATION, INSTALLATION, OR
  - ALUMINUM-FRAMED ENTRANCES AND STOREFRONTS SHALL WITHSTAND MOVEMENTS OF SUPPORTING STRUCTURE INCLUDING, BUT NOT LIMITED TO, STORY DRIFT, TWIST, COLUMN SHORTENING, LONG-TERM CREEP, AND DEFLECTION FROM UNIFORMLY DISTRIBUTED AND
  - i. THERMAL STRESSES TRANSFERRING TO BUILDING STRUCTURE.
  - iii. LOOSENING OR WEAKENING OF FASTENERS, ATTACHMENTS, AND OTHER COMPONENTS.

- DEFLECTION NORMAL TO WALL PLANE: LIMITED TO EDGE OF GLASS IN A DIRECTION PERPENDICULAR TO GLASS PLANE NOT EXCEEDING 1/175 OF THE GLASS EDGE LENGTH FOR EACH INDIVIDUAL GLAZING LITE OR AN AMOUNT THAT RESTRICTS EDGE DEFLECTION OF INDIVIDUAL GLAZING LITES TO 3/4 INCH (19.1 MM),
  - DEFLECTION PARALLEL TO GLAZING PLANE: LIMITED TO AMOUNT NOT EXCEEDING THAT WHICH REDUCES GLAZING BITE TO LESS THAN 75 PERCENT OF DESIGN DIMENSION AND THAT WHICH REDUCES EDGE CLEARANCE BETWEEN FRAMING MEMBERS AND GLAZING OR OTHER FIXED
  - WHEN TESTED AT POSITIVE AND NEGATIVE WIND-LOAD DESIGN PRESSURES, ASSEMBLIES DO NOT WHEN TESTED AT 150 PERCENT OF POSITIVE AND NEGATIVE WIND-LOAD DESIGN PRESSURES. ASSEMBLIES, INCLUDING ANCHORAGE, DO NOT EVIDENCE MATERIAL FAILURES, STRUCTURAL DISTRESS, OR PERMANENT DEFORMATION OF MAIN FRAMING MEMBERS EXCEEDING 0.2 PERCENT
  - TEST DURATIONS: AS REQUIRED BY DESIGN WIND VELOCITY, BUT NOT LESS THAN 10 SECONDS.
  - FIXED FRAMING AND GLASS AREA: MAXIMUM AIR LEAKAGE OF 0.06 CFM/SQ. FT. (0.30 L/S PER SQ. M) AT A STATIC-AIR-PRESSURE DIFFERENTIAL OF 6.24 LBF/SQ. FT. (300 PA).
- 2.6 WATER PENETRATION UNDER STATIC PRESSURE: TEST ACCORDING TO ASTM E 331 AS FOLLOWS: NO EVIDENCE OF WATER PENETRATION THROUGH FIXED GLAZING AND FRAMING AREAS WHEN TESTED ACCORDING TO A MINIMUM STATIC-AIR-PRESSURE DIFFERENTIAL OF 20 PERCENT OF POSITIVE WIND-LOAD DESIGN PRESSURE, BUT NOT LESS THAN 10 LBF/SQ. FT. (500 PA).
  - THERMAL TRANSMITTANCE (U-FACTOR): FIXED GLAZING AND FRAMING AREAS: U-FACTOR FOR THE
  - SOLAR HEAT-GAIN COEFFICIENT (SHGC): FIXED GLAZING AND FRAMING AREAS: SHGC FOR THE SYSTEM OF
    - FIXED GLAZING AND FRAMING AREAS: AIR LEAKAGE FOR THE SYSTEM OF NOT MORE THAN 0.06 CFM/SQ. FT. (0.30 L/S PER SQ. M) AT A STATIC-AIR-PRESSURE DIFFERENTIAL OF 6.24 LBF/SQ. FT. (300

### 2.12 FRAMING MEMBERS: MANUFACTURER'S EXTRUDED- OR FORMED-ALUMINUM FRAMING MEMBERS OF THICKNESS REQUIRED AND REINFORCED AS REQUIRED TO SUPPORT IMPOSED LOADS. CONSTRUCTION: THERMALLY BROKEN FOR ALL EXTERIOR FRAMING AND NONTHERMAL FOR

- INTERIOR FRAMING. SILL AND HEAD MEMBERS ARE CONTINUOUS. SYSTEM DIMENSIONS: 2 BY 4.5 INCHES (50.8 BY 114.3 MM) NOMINAL
- BACKER PLATES: MANUFACTURER'S STANDARD, CONTINUOUS BACKER PLATES FOR FRAMING MEMBERS, IF NOT INTEGRAL, WHERE FRAMING ABUTS ADJACENT CONSTRUCTION. BRACKETS AND REINFORCEMENTS: MANUFACTURER'S STANDARD HIGH-STRENGTH ALUMINUM WITH NONSTAINING, NONFERROUS SHIMS FOR ALIGNING SYSTEM COMPONENTS.
- FASTENERS AND ACCESSORIES: MANUFACTURER'S STANDARD CORROSION-RESISTANT NONSTAINING, NONBLEEDING FASTENERS AND ACCESSORIES COMPATIBLE WITH ADJACENT
- MATERIALS. WHERE EXPOSES SHALL BE STAINLESS STEEL. PERIMETER ANCHORS: WHEN STEEL ANCHORS ARE USED, PROVIDE INSULATION BETWEEN STEEL MATERIAL AND ALUMINUM MATERIAL TO PREVENT GALVANIC ACTION.
- ALUMINUM: ALLOY AND TEMPER RECOMMENDED BY MANUFACTURER FOR TYPE OF USE AND FINISH
- SHEET AND PLATE: ASTM B 209 (ASTM B 209M).
- EXTRUDED BARS, RODS, PROFILES, AND TUBES: ASTM B 221 (ASTM B 221M).
- 2.15 EXTRUDED STRUCTURAL PIPE AND TUBES: ASTM B 429/B 429M.
- 2.16 GLAZING: COMPLY WITH SECTION 088000 "GLAZING."

2.14 MATERIALS:

RUBBER.

D (EPA METHOD 24).

GLAZING

INDICATED.

- 2.17 GLAZING GASKETS: MANUFACTURER'S STANDARD COMPRESSION TYPES; REPLACEABLE, EXTRUDED EPDM
- 2.18 SPACERS AND SETTING BLOCKS: MANUFACTURER'S STANDARD ELASTOMERIC TYPE.
- 2.19 GLAZING SEALANTS: AS RECOMMENDED BY MANUFACTURER.
- 2.20 WEATHERSEAL SEALANT: ASTM C 920 FOR TYPE S, GRADE NS, CLASS 25, USES NT, G, A, AND O; SINGLE-COMPONENT NEUTRAL-CURING FORMULATION THAT IS COMPATIBLE WITH STRUCTURAL SEALANT AND OTHER SYSTEM COMPONENTS WITH WHICH IT COMES IN CONTACT; RECOMMENDED BY STRUCTURAL-SEALANT, WEATHERSEAL-SEALANT, AND ALUMINUM-FRAMED-SYSTEM MANUFACTURERS FOR THIS USE.
- 2.21 VOC CONTENT: GLAZING SEALANTS APPLIED INSIDE THE WEATHERPROOFING SYSTEM OF THE BUILDING SHALL HAVE A VOC CONTENT OF 250 G/L OR LESS WHEN CALCULATED ACCORDING TO 40 CFR 59, SUBPART

# ACCESSORY MATERIALS

- 2.22 JOINT SEALANTS: FOR INSTALLATION AT PERIMETER OF ALUMINUM-FRAMED SYSTEMS, AS SPECIFIED IN DIVISION 07 SECTION "JOINT SEALANTS".
- BITUMINOUS PAINT: COLD-APPLIED, ASPHALT-MASTIC PAINT COMPLYING WITH SSPC-PAINT 12 2.23 REQUIREMENTS EXCEPT CONTAINING NO ASBESTOS; FORMULATED FOR 30 MIL (0.762 MM) THICKNESS PER COAT.

# FABRICATION

- 2.24 FORM OR EXTRUDE ALUMINUM SHAPES BEFORE FINISHING
- 2.25 WELD IN CONCEALED LOCATIONS TO GREATEST EXTENT POSSIBLE TO MINIMIZE DISTORTION OR DISCOLORATION OF FINISH. REMOVE WELD SPATTER AND WELDING OXIDES FROM EXPOSED SURFACES BY DESCALING OR GRINDING.
- 2.26 FABRICATE COMPONENTS THAT, WHEN ASSEMBLED, HAVE THE FOLLOWING CHARACTERISTICS: PROFILES THAT ARE SHARP, STRAIGHT, AND FREE OF DEFECTS OR DEFORMATIONS. ACCURATELY FITTED JOINTS WITH ENDS COPED OR MITERED.
  - PHYSICAL AND THERMAL ISOLATION OF GLAZING FROM FRAMING MEMBERS. ACCOMMODATIONS FOR THERMAL AND MECHANICAL MOVEMENTS OF GLAZING AND FRAMING TO MAINTAIN REQUIRED GLAZING EDGE CLEARANCES.
  - PROVISIONS FOR FIELD REPLACEMENT OF GLAZING FROM INTERIOR FASTENERS, ANCHORS, AND CONNECTION DEVICES THAT ARE CONCEALED FROM VIEW TO GREATEST EXTENT POSSIBLE.
- 2.27 MECHANICALLY GLAZED FRAMING MEMBERS: FABRICATE FOR FLUSH GLAZING WITHOUT PROJECTING STOPS
- 2.28 STOREFRONT FRAMING: FABRICATE COMPONENTS FOR ASSEMBLY USING MANUFACTURER'S STANDARD INSTALLATION INSTRUCTIONS.
- 2.29 AFTER FABRICATION, CLEARLY MARK COMPONENTS TO IDENTIFY THEIR LOCATIONS IN PROJECT ACCORDING TO SHOP DRAWINGS.

# PART 3 – EXECUTION

# EXAMINATION

3.1

EXAMINE OPENINGS, SUBSTRATES, STRUCTURAL SUPPORT, ANCHORAGE, AND CONDITIONS, WITH INSTALLER PRESENT, FOR COMPLIANCE WITH REQUIREMENTS FOR INSTALLATION TOLERANCES AND OTHER CONDITIONS AFFECTING PERFORMANCE OF WORK. VERIFY ROUGH OPENING DIMENSIONS, LEVELNESS OF SILL PLATE AND OPERATIONAL CLEARANCES. EXAMINE WALL FLASHINGS, VAPOR RETARDERS, WATER AND WEATHER BARRIERS, AND OTHER BUILT-IN COMPONENTS TO ENSURE A COORDINATED, WEATHER TIGHT FRAMED ALUMINUM- STOREFRONT SYSTEM INSTALLATION. PROCEED WITH INSTALLATION ONLY AFTER UNSATISFACTORY CONDITIONS HAVE BEEN CORRECTED.

# INSTALLATION

- 3.2 GENERAL
  - COMPLY WITH MANUFACTURER'S WRITTEN INSTRUCTIONS. DO NOT INSTALL DAMAGED COMPONENTS.
  - FIT JOINTS TO PRODUCE HAIRLINE JOINTS FREE OF BURRS AND DISTORTION.
  - RIGIDLY SECURE NONMOVEMENT JOINTS. INSTALL ANCHORS WITH SEPARATORS AND ISOLATORS TO PREVENT METAL CORROSION AND ELECTROLYTIC DETERIORATION AND TO PREVENT IMPEDING MOVEMENT OF MOVING JOINTS.
  - SEAL PERIMETER AND OTHER JOINTS WATERTIGHT UNLESS OTHERWISE INDICATED.
- 3.3 METAL PROTECTION WHERE ALUMINUM IS IN CONTACT WITH DISSIMILAR METALS, PROTECT AGAINST GALVANIC ACTION Α. BY PAINTING CONTACT SURFACES WITH MATERIALS RECOMMENDED BY MANUFACTURER FOR THIS PURPOSE OR BY INSTALLING NONCONDUCTIVE SPACERS. WHERE ALUMINUM IS IN CONTACT WITH CONCRETE OR MASONRY, PROTECT AGAINST CORROSION BY PAINTING CONTACT SURFACES WITH BITUMINOUS PAINT.
- SET CONTINUOUS SILL MEMBERS AND FLASHING IN FULL SEALANT BED AS SPECIFIED IN SECTION 079200 3.4 "JOINT SEALANTS" TO PRODUCE WEATHERTIGHT INSTALLATION.
- INSTALL ALUMINUM-FRAMED STOREFRONT SYSTEM LEVEL, PLUMB, SQUARE, TRUE TO LINE, WITHOUT 3.5 DISTORTION OR IMPEDING THERMAL MOVEMENT, ANCHORED SECURELY IN PLACE TO STRUCTURAL SUPPORT, AND IN PROPER RELATION TO WALL FLASHING AND OTHER ADJACENT CONSTRUCTION.
- 3.6 INSTALL ALUMINUM-FRAMED STOREFRONT SYSTEM AND COMPONENTS TO DRAIN CONDENSATION, WATER PENETRATING JOINTS, AND MOISTURE MIGRATING WITHIN ALUMINUM-FRAMED STOREFRONT SYSTEM TO THE EXTERIOR
- 3.7 INSTALL GLAZING AS SPECIFIED IN SECTION 088000 "GLAZING."

## ADJUSTING, CLEANING AND PROTECTION

- CLEAN ALUMINUM SURFACES IMMEDIATELY AFTER INSTALLING ALUMINUM-FRAMED STOREFRONTS. AVOID 3.8 DAMAGING PROTECTIVE COATINGS AND FINISHES. REMOVE EXCESS SEALANTS, GLAZING MATERIALS, DIRT. AND OTHER SUBSTANCES.
- 3.9 CLEAN GLASS IMMEDIATELY AFTER INSTALLATION. COMPLY WITH GLASS MANUFACTURER'S WRITTEN RECOMMENDATIONS FOR FINAL CLEANING AND MAINTENANCE. REMOVE NONPERMANENT LABELS, AND CLEAN SURFACES.
- REMOVE AND REPLACE GLASS THAT HAS BEEN BROKEN, CHIPPED, CRACKED, ABRADED, OR DAMAGED 3.10 DURING CONSTRUCTION PERIOD.

## SECTION 08 81 00 / GLAZING

- 1.1 SUBMIT SAMPLES COMPLYING WITH SECTION 01 SB 00 FOR WORK IN THIS SECTION. REVIEW OF SAMPLES WILL BE FOR COLOR ONLY.
- PROVIDE MATERIAL AND INSTALLATION IN ACCORDANCE WITH MANUFACTURER'S SPECIFICATIONS, 1.2 RECOMMENDATIONS AND INSTALLATION INSTRUCTIONS FOR MATERIALS SPECIFIED.
- WATERTIGHT AND AIRTIGHT INSTALLATION OF EACH PIECE OF GLASS IS REOUIRED. EACH INSTALLATION 1.3 MUST WITHSTAND NORMAL TEMPERATURE CHANGES, WIND LOADING, IMPACT LOADING (FOR OPERATING DOORS) WITHOUT FAILURE INCLUDING LOSS OR BREAKAGE OF GLASS, FAILURE OF SEALANTS OR GASKETS TO REMAIN WATERTIGHT AND AIRTIGHT, DETERIORATION OF GLAZING MATERIALS AND OTHER DEFECTS IN THE WORK.
- PROTECT GLASS FROM EDGE DAMAGE DURING HANDLING, INSTALLATION AND OPERATION OF THE 1.4 BUILDING. GLASS BREAKAGE DURING THE GUARANTEE PERIOD WILL BE GONSIDERED A FORM OF FAULTY INSTALLATION (RESULTING FROM EDGE DAMAGE) UNLESS KNOWN TO RESULT FROM VANDALISM OR OTHER CAUSES NOT RELATED TO MATERIALS AND INSTALLATION.
- 1.5 GLAZING CHAN NEL DIMENSIONS AS SHOWN ARE INTENDED TO PROVIDE FOR NECESSARY MINIMUM BITE ON THE GLASS, MINIMUM EDGE GLEARANGE AND ADEQUATE SEALANT THICKNESSES, WITH REASONABLE TOLERANCES.

## PRODUCTS

- 2.1 GLASS AND GLAZING PRODUCTS SHALL BE AS MANUFACTURED BY: GUARDIAN SUNGUARD ADVANCED ARCHITECTURAL GLASS.
  - FLEETWOOD AND WESTERN INSULATED GLASS

# MATERIALS

- REGULAR GLASS: 1/4" THINK COMPLYING WITH FS DD G 451, TYPE I, CLASS I, QUALITY Q 3 PLATE OR FLOAT 3.1 GLASS, CLEAR
- 3.2 SHEET GLASS: 1/8" THICK COMPLYING WITH FS DD G 451, TYPE II, CLASS 1, QUALITY Q 5. GLEAR.
- TEMPERED GLASS: 1/4" THICK FULLY TEMPERED PLATE GLASS. PERMANENTLY ETCH EACH LIGHT WITH 3.3 MANUFACTURER'S NAME AND COMPLIANCE WITH ANSI Z 97.1, CLEAR OR TINTED AS INDICATED ON THE DRAWINGS.
- CLEAR WIRE GLASS: 1/4" THICK POLISHED WIRE GLASS; SUPERLITE I-W AS MANUFAGTURED BY SAFTI OF 3.4 O'KEEFFE'S, INC.. DIAMOND PATTEN WITH 20 / 45 / 60 OR 90 MINUTE RATING AS INDICATED ON THE DRAWINGS
- 3.5 INSULATING GLASS: " THICK SOLARBAN 6 OR GUARDIAN SUNGUARD.
- 3.6 INTERIOR GLAZING COMPOUND: POLYMERIZE D BUTYL RUBBER AND INERT FILLERS (PIGMENTS), SOLVENT

ent Services D Lee's Summit, Missou 07/03/2024

BASED WITH MINIMUM 75% SOLIDS, NON-SAG CONSISTENCY, TACK FREE TIME OF 24 HOURS OR LESS, PAINTABLE AND NON\_STAINING.

3.7 SETTING BLOCKS: NEOPRE NE, EPDM, MIN. LENGTH 4".

3.8 EXTERIOR GLAZING COMPOUND: CONFORMING TO ASTM 0920, TYPE S, GRADE NS USE G.

# INSTALLATION

- 4.1 COMPLY WITH COMBINED RECOMMENDATIONS OF GLASS MANUFACTURER AND MANUFACTURER OF SEALANTS AND OTHER MATERIALS USED IN GLAZING, EXCEPT WHERE MANUFACTURER'S TECHNICAL REPRESENTATIVES DIRECT OTHERWISE. COMPLY WITH GLAZING MANUAL BY FLAT GLASS MANUFACTURER'S ASSOC IATION, AND EXCEPT AS SPECIFINALLY RECOMMENDED OTHERWISE BY THE MANUFACTURERS OF THE GLASS AND GLAZING MATERIALS.
- 4.2 CLEAN THE GLAZING, CHANNEL OR OTHER FRAMING MEMBERS TO RECEIVE GLASS, IMMEDIATELY BEFORE GLAZING. REMOVE COATINGS THAT ARE NOT FIRMLY BONDED TO THE SUBSTRATE. DO NOT ATTEM PT TO CUT, SEAM, NIP OR ABRADE GLASS THAT IS TEMPERED OR HEAT STRENGTHENED.
- 4.3 INSPECT EACH PIECE OF GLASS IMMEDIATELY BEFORE INSTALLATION AND ELIMINATE ANY THAT HAVE OBSERVABLE EDGE DAMAGE OR FACE IMPERFECTIONS. INSTALL SETTING BLOCKS OF PROPER SIZE AT QUARTER POINTS OF MILL RABBET. SET BLOCKS IN THIS COURSE OF THE HEEL\_HEAD COMPOUND.
- 4.4 PROVIDE SPACERS INSIDE AND OUT. AND OF PROPER SIZE AND SPACING, FOR GLASS SIZES LARGER THAN 50 UNITED INCHES. PROVIDE 1/8" MINIMUM BITE OF SPACERS ON GLASS, AND USE THICKNESS EQUAL TO SEALANT WIDTH. UNIFY APPEARANCE OF EACH SERIES OF LIGHTS BY SETTING EACH PIECE TO MATCH OTHERS AS NEARLY AS POSSIBLE. INSPECT EACH PIECE AND SET WITH PATTERN, DRAW AND BOW ORIENTED IN THE NAME DIRECTION AS OTHER PIECES.
- 4.5 MITER CUT AND BOND ENDS TOGETHER AT CORNERS WHERE GASKETS ARE USED FOR CHANNEL GLAZING, SO THAT GASKETS WILL NOT PULL AWAY FROM CORNERS AND RESULT IN VOIDS OR LEAKS.

# PART I - GENERAL





SHEET TITLE

# SPECIFICATIONS

## SECTION 09 29 00 / GYPSUM BOARD

- ASTM C-840 AND C-754, AND GA-216, ARE HEREBY MADE A DIRECT PART OF THIS SPECIFICATION.
- SUBMIT INFORMATION COMPLYING WITH SECTION 01 33 00 FOR WORK IN THIS SECTION. 1.2 FURNISH MANUFACTURER'S CERTIFICATION THAT MATERIAL MEET SPECIFICATION REQUIREMENT

## JOB CONDITIONS

TEMPERATURE AND HUMIDITY CONDITIONS: DO NOT INSTALL WALLBOARDUNLESS INSTALLATION AREAS 2.1 COMPLY WITH THE MINIMUM TEMPERATURE AND VENTILATION REQUIREMENTS RECOMMENDED BY THE MANUFACTURER

FURNISH MANUFACTURER'S PRINTED INSTRUCTIONS FOR INSTALLATION OF ASSEMBLIES.

- PROTECTION: PROVIDE CLOSURES FOR EXTERIOR OPENINGS, WHERE REQUIRED. ROOM TEMPERATURE 2.2 DURING INSTALLATION OF WALLBOARD SHALL NOT BE LESS THAN 50° F, WITH ADEQUATE VENTILATION MAINTAINED TO ELIMINATE EXCESSIVE MOISTURE UNTIL JOINT COMPOUND IS DRY.
- PROVIDE VENTILATION DURING AND FOLLOWING ADHESIVES AND JOINT TREATMENT APPLICATIONS. USE 2.3 TEMPORARY AIR CIRCULATORY IN ENCLOSED AREAS LACKING NATURAL VENTILATION. UNDER SLOW DRYING CONDITIONS, ALLOW ADDITIONAL DRYING TIME BETWEEN COATS OF JOINT TREATMENT. PROTECT INSTALLED MATERIALS FROM DRAFTS DURING HOT, DRY WEATH ER.

### MANUFACTURERS

3.1 GYPSUM WALLBOARD COMPONENTS SHALL BE AS MANUFACTURED BY NATIONAL GYPSUM COMPANY PRODUCTS FROM US GYPSUM COMPANY, GEORGIA\_PACIFIC, OR FLINTKOTE BLUE DIAMON D ARE ACCEPTABLE. IT IS INTENDED THAT MATERIALS FURNISHED BE A PART OF A SINGLE SYSTEM, WHETHER IT BE SUPPLIED BY ONE OR SEVERAL MANUFACTURES.

### PRODUCTS

- 4.1 GYPSUM WALLBOARD REGULAR WALLBOARD: ASTM C 36; OR FS SS L 30, TYPE III, GRADE R, CLASS I; 5/8" THICKNESS,
  - TAPERED EDGE
  - FIRE RATED WALLB OARD: ASTM C 36, TYPE X: OR FS SS L 30, TYPE III, GRADE X, CLASS I, 5/8" THICK NESS. TAPERED EDGE.
  - WATER-RESISTANT WALLBOARD: ASTM C 630, 5/8" THICKNESS, TAPERED EDGE, AS INDICATED ON
  - EXTERIOR WALLBOARD: NATIONAL GYPSUM COMPANY EXTERIOR SOFFIT BOARD, 5/8" THICKNESS OR CONFORMING TO ASTM C 931.

### 4.2 WALLBOARD ACCESSORIES:

- CORNER BEAD REINFORCEMENT: KAL-KORNER BEAD METAL EDGE REINFORCEMENT: J-TRIM CASING BEAD
- CONTROL JOINTS: E-Z STRIP OR .093 ZINC CONTROL JOINT
- SCREWS: PROVIDE SELF-DRILLING, SELF-TAPPING, BUGLE HEAD, FOR USE WITH POWER DRIVEN TOOL 4.3 TYPE S FOR APPLICATION TO LIGHT-GAUGE METAL FRAMING, MINIMUM 1", TYPE S 12 FOR APPLICATION TO HEAVY-GAUGE METAL FRAMING (ASTM C 646); TYPE W FOR APPLICATION TO WOOD FRAMING, MINIMUM 1/2" (SINGLE LAYER) 1 5/8" (DOUBLE LATER) (ASTM C 894); TYPE G FOR WALLBOARD-TO-WALLBOARD APPLICATION, MINIMUM 1 1/2", (ASTM C 893).

### 4.4 LAMINATIN ADHESIVES

- WALLBOARD TO WOOD OR METAL FRAMING: US GYPSUM DURABOND 200 OR 300; OR CONFORMING Α. TO ASTM C 557 FOR WOOD FRAMING WALLBOARD TO WALLBOARD: US GYPSUM DURABOND 600.
- WALLBOARD TO CORE BOARD OR SOUND DEADENING BOARD: US GYPSUM DURABOND 500.
- WALLBOARD TO CONCRETE OR MASONRY: US GYPSUM DURABOND 500.
- FINISHING MATERIALS: JOINT TREATMENT SYSTEM SHALL BE PROFORM JOINT SYSTEM CONSISTING OF: 4.5 PROFORM PAPER JOINT REINFORCING TAPE CONFORM ING TO ASTM C-475. PROFORM PURPOSE JOINT COMPOUND FOR EMBEDDING, FILL AND FINISHING CONFORMING TO A STM C-475.

# 4.6 TEXTURE FINISH:

- WALL TEXTU RE MATERIAL SHALL BE REGULAR WALL TEXTURE AS MANUFACTURED BY HAMILTON Α. MATERIALS.
- CEILING TEXTU RE MATERIAL SHALL BE PAS TEX PREMIUM CEILING TEXTU RE, MANUFACTURED BY HAMILTON MATERIALS. WALL TEXTURE MATERIAL SHALL BE V 1200 WALL TEXTURE AS MANUFACTURED BY LAHABRA PRODUCTS.
- 4.7 SEALANTS: ACOUSTICAL SEALANT FOR SOUND CONTROL WALLS SHALL BE PRESSTITE NO 579.64 AS MANUFACTURED BY PRESSTITE PRODUCTS. TREMCO ACOUSTICAL SEALANT BY TREMCO, OR USG ACOUSTICAL SEALANT.

### **INSTALLATION - WALLS**

- APPLY WALLBOARD WITH LONG DIMENSION AT RIGHT ANGLES TO FRAMING OR FURRING MEMBERS WITH 5.1 ABUTTING ENDS AND EDGES OCCURRING OVER STUD FLANGES. USE WALLBOARD OF THE MAXIMUM PRACTICAL LENGTH TO MINIMIZE END JOINTS. NEATLY FIT AND STAGGER END JOINTS. ARRANGE JOINTS ON OPPOSITE SIDES OF THE PARTITION AS TO OCCU R ON DIFFERENT STUDS. CUT WALLB OARD NEATLY TO FIT AROU ND OPENINGS. WALLBOARD SHALL EXTEND TO WITHIN 1/2" OF THE FLOOR.
- 5.2 WHEREVER WALLBOARD TERMINATES AGAINST DISSIM ILAR MATERIALS OR WHERE EDGES OF WALLBOARD ARE EXPOSED, INSTALL METAL EDGE REINFORCEMENT AS SPECIFIED. AT OUTSIDE CORNERS INSTALL METAL CORNER BEAD REINFORCEMENT AS SPECIFIED.
- 5.3 AT LOCATIONS INDICAT ED INSTALL CONTROL JOINT OVER FACE OF WALLBOARD PANELS. CUT END JOINTS SQUARE, BUTT TOGETHER AND ALIGN TO PROVIDE NEAT FIT. ATTACH CONTROL JOINT TO WALLBOARD WITH BOSTITCH 1/2" TYPE G STAPLES SPACED NOT OVER 6" ON CENTER IN EACH FLANGE.
- 5.4 AT METAL STUDS APPLY WALLB OARD USING SCREWS SPACED A MAXIMUM OF 12" OC IN THE FIELD OF THE BOARD AND 12" OC ALONG THE ABUTTING END JOINTS; 8" OC AT RATED WALLS.
- AT WOOD FRAMING APPLY WALLBOARD WITH DOUBLE NAILING METHOD. APPLY FIRST NAILS SPACED 12" OC 5.5 WITH THE SECON D NAIL IN CLOSE PROXIMITY, INSTALLED AFTER FIRST NAILS ARE IN PLACE. NAILS SHALL NOT BE STAGGERED ON ADJOIN ING EDGES OR ENDS. NAILS SHALL BE DRIVEN WITH THE HEADS SLIGHTLY BELOW THE SURFACE OF THE WALLBOARD, IN A DIMPLE FORMED BY THE DRIVING TOOL. A NAIL SET SHALL NOT BE USED AND CARE SHALL BE TAKEN TO AVOID BREAKING THE PAPER FACE
- 5.6 WHERE WR OR WX WALLBOARD IS USED, COAT CUT EDGES AND FASTENER HEADS WITH USG SHEETROCK WR SEALANT. TREAT CUT EDGES, UTILITY HOLES, AND JOINTS, INCLUDING THOSE AT ANGLE INTERSECTIONS PRIOR TO INSTALLATION. TREAT FASTENER HEADS AFTER INSTALLATION.
- 5.7 AT SOUND CONTROL PARTITIONS INSTALL WALLBOARD OVER SOUND DEADENING BOARD. INSTALL HORIZONTALLY STAGGERING JOINTS BETWEEN LAYERS AND ON OPPOSITE SIDES AS FAR AS IS PRACTICAL. PROVIDE FULL RUNNING BEADS OF ACOUSTICAL SEALANT AT PERIMETER OF SUCH WALLS, BOTH SIDES. ALSO, PROVIDE AT SOUND CONTROL WALLS CONTINUOUS CAULKING BEAD WHERE WALLB OARD FORMS A JUNCTURE WITH OTHER WALLS OR SURFACES.
- APPLY ACOUSTICAL SEALANT USING AIR OPERATED EQUIPMENT. INSPECT JOINTS TO RECEIVE SEALANT TO 5.8 BE SURE THEY ARE CLEAN, DRY AND FREE OF DUST AND DIRT. SEAL AROU ND LIGHT BOXES, OUTLETS AND SWITCHES, WITH A CONTINUOUS BEAD OF SEALANT. REMOVE EXCESS OF SEALANT OR SMEARS AS WORK PROGRESSES
- AT DOUBLE-STU D PARTITIONS, SUCH AS CHASES, INSTALL STRIPS OF WALLB OARD 12" WIDE AND OF 5.9 LENGTHS TO SPAN THE PARTITION DEPTH BY STREWING TO THE WEBS OF OPPOSING STUDS. SPACE

### STRIPS APPROXIMATELY 42" OF.

- HANDBOOK.
- WALLBOARD DIRECTLY TO TRACKS.
- MASONRR WITH CONTINUOUS SEALANT BEAD.

### FINISHING

- 6.1 COMPOUND.
- 6.2 JOINTS.
- 6.3 EXPOSED METAL NOSING.
- 6.4 6.5

### CEMENT BOARD

| .1 |                  | S OF DESIGN: SUBJECT TO COMF<br>FOLLOWING: USG CORPORATION                                                                                                                           |
|----|------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| .2 | WITH<br>A.<br>B. | SIFICATION: CEMENTITIOUS BAC<br>I MANUFACTURER'S STANDARD E<br>THICKNESS: [1/4 INCH (6.4 MM<br>BOARD LENGTH: [5 FEET (152<br>BOARD WIDTH: [32 INCHES (8<br>MOLD RESISTANCE: ASTM D 3 |
| .3 | MININ            | UUM BENDING RADIUS: 6 FEET (1                                                                                                                                                        |
| .4 | REQU<br>A.       | ENER REQUIREMENTS: PROVIDI<br>JIREMENTS SPECIFIED IN THIS A<br>SCREWS FOR FASTENING GY<br>BRAND STEEL OR USG SHEAT<br>WITH CORROSION-RESISTAN                                        |
|    | В.<br>С.         | [2-1/4 INCH] WITH CORROSION                                                                                                                                                          |
| .5 | Α.               | ALLATION REQUIREMENTS:<br>FOR STEEL FRAMING LESS TH<br>1002.                                                                                                                         |
|    | В.               | FOR STEEL FRAMING FROM 0                                                                                                                                                             |

## **SECTION 09 30 00 / TILE**

### QUARRY TILE

| QUARRY TILE |                                                                                                                                                  |  |  |  |
|-------------|--------------------------------------------------------------------------------------------------------------------------------------------------|--|--|--|
| 1.1         | SUBMIT SAMPLES COMPLYING WITH S                                                                                                                  |  |  |  |
| 1.2         | FURNISH MASTER GRADE CERTIFICAT<br>MARK OF THE TCA, SIGNED BY THE M                                                                              |  |  |  |
| 1.3         | FURNISH MANUFACTURER'S PRINTED                                                                                                                   |  |  |  |
| 1.4         | PROVI DE CARTON OF EACH OOLOR A                                                                                                                  |  |  |  |
| 1.5         | MATERIALS, PREPARATION, AND INST<br>DETAILED INSTALLATION INSTRUCTIO                                                                             |  |  |  |
| 1.6         | INSTALLATION OF QUARRY TILE WITH                                                                                                                 |  |  |  |
| 1.7         | REFERENCED SPECIFIXATIONS, INSOI<br>PART OF THIS SPECIFICATION AS THO                                                                            |  |  |  |
| JOB CC      | <u>NDITIONS</u>                                                                                                                                  |  |  |  |
| 2.1         | SET AND GROUT TILE IN EPOXY OR CE<br>DEGREES F AND RISING. COMPLY WIT<br>FOR BONDING AND GROUTING MATER<br>ADJOINING WORK SURFACES BEFORE        |  |  |  |
| PRODU       | CTS                                                                                                                                              |  |  |  |
| 3.1         | QUARRY TILE PRODUCTS AS MANUFA                                                                                                                   |  |  |  |
| MATER       | IALS                                                                                                                                             |  |  |  |
| 4.1         | TILES SHALL BE OF DOMESTIC MANUF<br>SPR_R_61 OF THE U.S. DEPARTMENT<br>CERTIFICATION MARK SHALL APPEAR                                           |  |  |  |
| 4.2         | FLOOR QUARRY TILE SHALL BE STAND                                                                                                                 |  |  |  |
| 4.3         | WALL QUARRY BASE TILE SHALL BE S<br>NOMINAL FACE SIZES OF 5" X 6". PROV<br>TILE SHALL COMPLY WITH SECTION 6.<br>FLOOR AND AT INTERNAL CORNERS: A |  |  |  |
| 4.4         | QUARRY TILE COLORS SHALL BE AS IN                                                                                                                |  |  |  |
| 4.5         | PORTLAND CEMENT SHALL CONFORM                                                                                                                    |  |  |  |
| 4.6         | SAND SHALL CONFORM TO ASTM C_14                                                                                                                  |  |  |  |
| 4.7         | MORTAR SHALL BE ONE PART PORTLA                                                                                                                  |  |  |  |
| 4.8         | BOND COAT SHALL BE PORTLAND CEN<br>BED OR LATEX PORTLAN D CEMENT M                                                                               |  |  |  |
| 10          |                                                                                                                                                  |  |  |  |

5.10 AT DOUBLE LAYER WALLS INSTALL BASE LAYER AS SPECIFIED ABOVE EXCEPT INSTALL VERTICALLY OVER FRAMING MEMBERS. INSTALL FACE LAYER WITH ADHESIVE VERTICALLY AND PROVIDE FASTENERS UNTIL ADHESIVE SETS. STAGGER JOINTS IN FACE LAYER AT LEAST 10" FROM JOINTS IN BASE LAYER. AT VERTICAL CORNERS PROVIDE "FLOATING" CORNER INSTALLATION PER THE USG DRYWALL OONSTRUCTION

5.11 PROVIDE PERIMETER RELIEF WHERE NONLOAD BEARING WALLBOARD PARTITIONS ABUT STRUCTURAL DECKS OR CEILINGS OR VERTICAL STRUCTURAL ELEMENTS. ALLOW NOT LESS THAN 1/4", OR MORE THAN 1/2" GAP BETWEEN WALLBOARD AND STRUCTURE. FINISH EDGES OF WALLBOARD FACE LATER WITH SQUARE NOSE METAL CASING HEAD AND CAULK SPACE BETWEEN CASING BEAD AND STRUCTURE WITH CONTINUOUS SEALANT BEAD. ATTACH WALLBOARD TO STUDS NOT LESS THAN 1/2" BELOW BOTTOM EDGE OF CEILING TRACK FLANGES AND TO FIRST STUD ADJACENT TO VERTICAL TRACKS. DO NOT ATTACH

5.12 WHERE WALLBOARD PARTITIONS INTERSECT MASONRY WALLS, PROVIDE CONTROL JOINT NO LESS THAN 1/4"; OR MORE THAN 3/8" WIDE BETWEEN WALLB OARD AND MASONRY. FINISH EXPOSED EDGES OF WALLBOARD WITH SQUARE NOSE METAL CASING BEAD AND CAULK SPACE BETWEEN CASING BEAD AND

REINFORCE WALL AND CEILING ANGLES AND INSIDE VERTICAL CORNER ANGLES WITH TAPE FOLDED TO CONFORM TO THE ADJOINING SURFACE AND TO FORM A STRAIGHT, TRUE ANGLE. APPLY A THIN LAYER OF COMPOUND, APPROXIMATELY 3" WIDE, UNDER AND OVER THE TAPE IN THE ANGLE JOINT TO BE REINFORCED. CENTER TAPE OVER JOINTS TO BE REINFORCED AND SEAL INTO THE COMPOU ND, LEAVING SUFFICIENT COMPOUND UNDER THE TAPE TO PROVIDE PROPER BOND, APPLY A SKIM COAT OF COMPOUND IMMEDIATELY AFTER EMBEDDING TAPE AND CLEAN EXCESS COMPOUND FROM THE WALLBOARD SURFACE. AFTER DRYING, COVER EMBEDDING COMPOUNDS WITH AN ADDITIONAL COAT OF COMPOUND. ALLOW JOINTS TO DRY THOROUGHLY (MINIMUM OF 24 HOURS) BETWEEN EACH APPLICATION OF

COVER FILL COAT WITH COMPOUND SPREAD EVENLY OVER AND SLIGHTLY BEYOND THE TAPERED EDGE OF THE BOARD, FEATH ERED AT THE EDGES, WITH A SMOOTH UNIFORM SLIGHT CROWN OVER THE JOINT. DIMPLES AT FASTENER HEADS SHALL RECEIVE 3 COATS OF COMPOUND IN SUCCESSION AS USED IN

CONCEAL FLANGES OF METAL OORNER AND EDGE REINFORCING BE AT LEAST 2 COATS OF COMPOUND. WHEN COMPLETED, THE COMPOUND SHALL EXTEND APPROXIMATELY 8" TO 10" ON EITHER SIDE OF THE

SAND COATS AS NECESSARY AFTER EACH APPLICATION OF COMPOUND HAS DRIED. THE FINAL COAT AND SUBSEQUENT SANDING SHALL LEAVE WALLB OARD AND TREATED AREAS UNIFORMLY SMOOTH AND READY TO RECEIVE DECORATION, TO THE EXTENT THAT AFTER PAINTING OF WALLB OARD THERE SHALL BE NO DISTINGUISHABLE DIFFERENCE IN APPEARANCE BETWEEN TAPED AND UN-TAPED SURFACES. APPLY WALL TEXTURE TO EXPOSED WALLS (EXCEPT TOILETS) (AND WALLS TO RECEIVE WALL (COVERING) UPON COMPLETION OF FINISHING SPEC IFIED ABOVE, SURFACES SHALL BE FREE OF DUST, DIRT AND OIL BEFORE APPLICATION. USE AS HEAVY A MIXTURE AS PRACTICAL AND AVOID OVER THINNING OF THE MATERIAL. APPLY MATERIAL USING SPRAY EQUIPMENT CAPABLE OF DEVELOPING SUFFICIENT PRESSURE TO PRODUCE A LIGHT ORANGE PEEL TEXTURE FINISH.

> PLIANCE WITH PROJECT REQUIREMENTS, THE DESIGN IS BASED ON N, LLC, " USG DUROCK CEMENT BOARD"

CKER UNITS: ANSI A118.9, ASTM A108.11 AND ASTM C 1325 PROVIDE FDGES I)] [1/2 INCH (12.7 MM)] [5/8 INCH (15.9 MM)] [AS INDICATED].

24 MM)] [8 FEET (2438 MM)] [AS INDICATED] 13 MM)] [36 INCHES (914 MM)] [48 INCHES (1219 MM)] [AS INDICATED]. 3273, SCORE OF 10 AS RATED ACCORDING TO ASTM D 3274. 1830 MM).

E FASTENERS OF SIZE AND TYPE INDICATED THAT COMPLY WITH RTICLE FOR MATERIAL AND APPLICATION. PSUM SHEATHING TO COLD-FORMED METAL FRAMING: DUROCK THING SF STEEL DRILL SCREWS [1-1/4 INCH] [1-5/8 INCH] [2-1/4 INCH] IT COATING. RAND WOOD OR USG SHEATHING WF SCREWS [1-1/4 INCH] [1-5/8 INCH] N-RESISTANT COATING. ED GALVANIZED ROOFING NAILS [1-1/2 INCH (38 MM)] [1-3/4 INCH (44 MM)],

HAN 0.0329 INCH THICK, ATTACH SHEATHING TO COMPLY WITH ASTM C OR STEEL FRAMING FROM 0.033 TO 0.112 INCH THICK, ATTACH SHEATHING TO COMPLY WITH ASTM

SECTION 01 33 00 FOR WORK IN THIS SECTION.

### TE FOR TILES, BEFORE INSTALLATION, BEARING THE CERTIFICATION IANUFACTURER STATING THE TYPE AND QUANTITY OF THE MATERIAL.

D INSTRUCTIONS FOR USE OF LATEX PORTLAND CEMENT AND MORTAR. AND PATTERN OF QUARRY TILE FOR OWNERS' FUTURE USE.

TALLATION SHALL CONFORM TO ANSI STANDARDS AS LISTED AND THE ONS OF THE MATERIAL MANUFACTURER INSOFAR AS APPLICABLE.

WATER RESISTANT ORGANIC ADHESIVE: ANSI A 108.4. DFAR AS ANY PORTIONS ARE APPLICABLE, ARE HEREBY MADE A DIRECT OUGH REPEATED HEREIN.

EMENT MORTAR WHEN SURFACE TEMPERATURE IS AT LEAST 50 TH MINIMUM TEMPERATURE RECOMMENDATIONS OF MANUFACTURER'S RIALS IN OTHER THAN PORTLAND CEMENT MORTAR. PROTECT E TILE WORK BEGINS.

ACTURED BY DALTILE.

FACTURE, STANDARD GRADE. MEETING THE REQUIREMENTS OF OF COMMERCE AND SHALL COMPLY WITH ANS A 137.1. TCA ON EACH CARTON LABEL.

IDARD GRADE, UNGLAZE CERAMIC TYPE, NOT LESS THAN 3/8" .

STANDARD GRADE UNGLAZED TILE NOT LESS THAN 5/16" THICK, IN VIDE SPACER LUGS OR OTHER SIMILAR FEATURES ON EDGES OF TILE. 6.1 OF ANSI A 137.1. PROVIDE A 3401 BASE MEMBER AT JUNCTION OF ABL/R 3401 AND ACL/4 3401 AS APPLICABLE.

INDICATED ON THE DRAWINGS.

M TO ASTM C 150, TYPE I.

144.

AND CEMENT, 6 PARTS DAMP SAND BY VOLUME.

MENT PASTE ON A PLASTIC BED, OR DRY-SET MORTAR ON A CURED MORTAR ON A CURED BED.

4.9 LATEX PORTLAND CEMENT MORTAR SHALL CONFORM TO ANSI A 118.4.

- 4.10 DRY SET MORTAR SHALL CONFORM TO ANSI A 118.1.
- 4.11 ORGANIC ADHESIVE SHALL BE FLOOR TYPE CONFORMING TO ANSI A 136.1.
- 4.12 SEALANT: TWO COMPONENTS COMPLYING WITH ASTM C 920, TYPE M, CLASS 25, GRADE NS FOR JOINTS IN VERTICAL SURFACES; GRADE P, USE T FOR JOINTS IN HORIZONTAL SURFACES. BACK UP: FLEXIBLE AND COMPRESS IBLE TYPE OF CLOSED CELL FOAM POLYETHYLENE OR BUTYL RUBBER, ROUNDED AT SURFACE TO CONTACT SEALANT, AS SHOWN IN TCA DETAILS, AND AS RECOMMENDED BY SEALANT MANUFACTURER. IT SHALL FIT NEATLY INTO THE JOINT WITH 1/8" COMPACTION AND TO SUCH A HEIGHT TO ALLOW A SEALANT DEPTH OF 1/2 THE WIDTH OF THE JOINT. SEALANT SHALL NOT BOND TO THE BACK UP MATERIAL

# EXECUTION

- 5.1 INSTALL OUARRY TILE USING WATER RESISTANT ORGANIC ADHESIVES IN ACCORDANCE WITH ANS A-108.4 AND TCA METHOD
- 5.2 LAY OUT FLOORS SO THAT NO TILE LESS THAN ONE—HALF SIZE OCCURS. ALIGN JOINTS IN BOTH DIRECTIONS.
- 5.3 GROUT TILE JOINTS FLUSH WITH FACE OF TILES MAKING A NEATLY FINISHED SMOOTH SURFACE.
- 5.4 INSTALL SPECIFIED GROUT IN STRICT ACCORDANCE WITH MANUFACTURER'S PRINTED INSTRUCTIONS

# EXPANSION JOINTS

- PROVIDE EXPANSION JOINTS IN QUARRY TILE SURFACES IN ACOORDANCE WITH TCA METHOD EJ-411-84. EXPANSION JOINT WIDTH SHALL BE 1/4" MINIMUM. JOINTS THROUGH TILE AND MORTAR DIRECTLY OVER STRUCTURAL JOINTS IN THE BACKING MUST BE AT LEAST THE WIDTH OF THE STRUCTURAL JOINT.
- INSTALLATION: SET BACK UP WHEN MORTAR IS PLACED OR UTILIZE REMOVABLE WOOD STRIP TO PROVIDE 6.2 SPACE FOR BACK UP AFTER MORTAR HAS CURED. INSTALL SEALANT AFTER TILE WORK AND GROUT ARE DRY. FOLLOW SEALANT MANUFACTURER'S RECOMMENDATION.

# CLEANING AND PROTECTION

7.1 CLEAN TILE AFTER GROUTING AND PROTECT FROM OTHER TRADES. CURE QUARRY TILE FLOORS FOR A MINIMU M OF 72 HOURS.

# SECTION 09 51 00 / ACOUSTICAL TILE CEILING

- 1.1 SUBMIT SAMPLES COMPLYING WITH SECTION 01 33 00 FOR WORK IN THIS SECTION. SUBMIT SHOP DRAWINGS IN FORM OF REFLECTED CEILING PLAN SHOWING AREAS TO RECEIVE Α. ACOUSTICAL TILE AND DETAILS OF INSTALLATION.
  - SUBMIT SAMPLES OF EACH TYPE OF PANEL AND SUSPENSION SYSTEMS SPECIFIED.
- PROVIDE OWNER WITH EXTRA STOCK EQUAL TO A MINIMUM OF ONE FULL, UNOPENED CARTON OF EACH 1.2 TYPE.

## MANUFACTURERS

- 2.1 PRODUCTS SHALL BE AS MANUFACTURED BY ARMSTRONG OR VSG.
- 2.2 ACOUSTICAL PANELS (ACT-1) ACOUSTICAL PANELS SHALL CONFORM TO ASTM E 1477-98 AND ASTM D 3273. PATTERN: "DUNE" BEV ELED TEGULAR FINISH: WHITE FINE TEXTURE SIZE: 24" X 48" X 5/8" AND 24" X 24" X 5/8"
- LIGHT REFLECTANCE: LR 0.83 OR GREATER
- 2.3 WASHABLE ACOUSTICAL PANELS (ACT-2)

## SECTION 09 73 00 / PREFINISHED PANELS (FRP)

- 1.1 SUBMIT SAMPLES COMPLYING WITH SECTION 01 33 00 FOR WORK IN THIS SECTION
- 1.2 PRE-FIN ISHED PANEL PRODUCTS SHALL BE AS MANUFACTURED BY MARLITE. MATERIALS
- 1.3 FIBER REINFORCED POLYESTER (FRP) PANELS: MARLITE FRP PANELS, FACTORY PRE-FINISH ED. SIZE: 4' X 10' X 3/32" THICK.
- COLOR: SMOOTH BRIGHT WHITE
- FURNISH PANELS COMPLETE WITH MANUFACTURERS PVC MOLDING SYSTEM CONSISTING OF ONE\_PIECE 1.5 TOP AND EDGE CAPS, DIVISION BARS, INSIDE AND OUTSIDE CORN ER MOLDINGS. AND BASE MOLDINGS. COLOR SHALL MATCH PANEL COLOR.
- SEALANT SHALL BE SILICONE BASED CONSTRUCTION GRADE GENERAL ELECTRIC 1200 SEALANT. COLOR TO 1.6 MATCH PANELS.
- 1.7 ADHESIVE SHALL BE AS RECOMMENDED BY THE MANU FACTURER FOR FIRE RESISTANT CONSTRUCTION. INSTALLATION
- 2.1 APPLY PANELS WITH THE LONG DIMENSION VERTICALLY. CUT AND FIT NEATLY AROUND OUTLETS AND SWITCHEX. CAULK SEAMS, CURB JUNCTURES AND CORNERS. INSTALLATION TECHNIQUES SHALL RESULT IN PLUMB AND STRAIGHT SURFACES WITHOUT WAVES OR BUCKLES, FREE OF UNEVENNESS AT JOINTS.

# SECTION 09 91 00 / PAINTING

ENVIRONMENTAL CONDITIONS

DO NOT APPLY EXTERIOR PAINT IN DAMP. RAINY WEATH ER OR UNTIL THE SURFACE HAS DRIED 1.1 THOROUGHLY FROM THE EFFECTS OF SUCH WEATHER. DO NOT APPLY VARNISH OR PAINT WHEN TEMPERATURE IS BELOW TOO F. AVOID PAINTING SURFACES WHEN EXPOSED TO HOT SUNLIGHT.

## PROTECTION

- 2.1 BEFORE PAINTING, REMOVE HARDWARE, ACCESSORIES, PLATES, LIGHTING FIXTURES AND SIMILAR ITEMS OR PROVIDE AMPLE PROTECTION OF SUCH ITEMS. ON COMPLETION OF EACH SPACE, REPLACE ABOVE ITEMS. PROTECT ADJACENT SURFACES AS REQUIRED. A SUFFICIENT SUPPLY OF CLEAN DROP CLOTHS AND OTHER PROTECTIVE COVERING SHALL BE MAINTAINED.
- FINISHING OF THE FOLLOWING LISTED ITEMS AND MATERIALS WILL NOT BE REQUIRED AND THEY SHALL BE 2.2 PROTECTED: STAINLESS STEEL, BRASS, BRONZE, COPPER, MONEL, CHROMIUM, ANODIZED ALUMINUM; SPECIALLY FINISHED ARTICLES SUCH AS PORCELAIN ENAMEL, PLASTIC COATED FABRICS, AND BAKED ENAMEL.

## PREPARATION OF SURFACES

- 3.1 INSPECTION OF SURFACES: DO NOT BEGIN PAINTING ON SURFACES UNTIL IT HAS BEEN INSPECTED AND IS IN PROPER CONDITION TO RECEIVE THE PAINT AS SPECIFIED, APPLY NO MATERIAL UNTIL THE UNSUITABLE SURFACES HAVE BEEN MADE SATISFACTORY. AFTER ACCEPTANCES OF SURFACE, BY APPLICATION OF FIRST COAT OF PAINT, ASSUME RESPONSIBILITY FOR UNSATISFACTORY FINISH RESULTING.
- 3.2 IF, AFTER TREATMENT, THE COMPLETED FINISH (OR PORTION THEREOF) BLISTERS, CHECKS, PEELS, OR OTHERWISE SHOWS INDICATION OF DAMPNESS OR OTHER IRREGULAR CONDITION OF SURFACE, REMOVE THE APPLIED TREATMENT AND REFINISH THE PART AFFECTED TO THE SATISFACTION OF ARCHITECT. DETERMINE DRYNESS OF MOISTU RE\_HOLDING MATERIALS BY USE OF A RELIABLE ELECTRONIC MOISTURE METER.
- 3.3 WOOD: SANDPAPER TO SMOOTH AND EVEN SURFACE. AFTER PRIMING OR STAIN COAT HAS BEEN APPLIED, FILL NAIL HOLES AND OTHER SURFACE IMPERFECTIONS WITH PUTTY TINTED WITH PRIMER OR STAIN TO MATCH WOOD COLOR. SAND WOODWORK BETWEEN COATS TO A SMOOTH SURFACE. COVER KNOTS AND SAP STREAKS WITH A THIN COAT OF SHELLAC.
- STEEL AND IRON: REMOVE GREASE, RUST AND RUST SCALE AND TOUCH UP ANY CHIPPED OR ABRADE D 3.4 PLACES ON ITEMS THAT HAVE BEEN SHOP COATED. WHERE STEEL OR IRON HAVE A HEAVY COATING OF SCALE, REMOVE BY DESCALING. OR WIRE BRUSH ING, AS NECESSARY. WHEN AREA WILL BE EXPOSED TO VIEW, SANDPAPER THE AREA SMOOTH, FEATHER THE EDGE OF SURROUNDING UNDAMAGED PRIME COAT AND SPOT PRIME IN A MANNER TO ELIMINATE EVIDENCE OF REPAIR.
- 35 GALVANIZED METAL: CLEAN BY WIPING SURFACES WITH SURFACE CONDITION ER AND PRIME WITH GALVANIZED IRON PRIM MER AS RECOMMENDED BY PAINT MANUFACTU RER.
- 3.6 CONCRETE AND CONCRETE MASONRY: PREPARE SURFACES TO BE PAINTED BY REMOVING DIRT, DUST, OIL

**RELEASED FOR** CONSTRUCTION Noted on Plans Revi

ent Services D Lee's Summit, Missou 07/03/2024

AND GREASE STAINS AND EFFLORESCENC E. THE METHOD OF SURFACE PREPARATION SHALL BE LEFT TO THE DISCRETION OF CONTRACTOR. BEFORE FIRST PAINT COAT IS APPLIED, SPOT PRIME NAILS AND OTHER EXPOSED METAL OCCURRING IN THE SURFACES WITH AN OIL BASE MASONRR PRIMER AS RECOMMENDED BY PAINT MANUFACTURER.

3.7 PLASTER SURFACES: FILL CRACKS, HOLES, OR IMPERFECTIONS IN PLASTER WITH PATCHING PLASTER AND SMOOTH OFF TO MATCH ADJOINING SURFACES. BEFORE PAINTING PLASTER, SURFACES SHALL BE FIRST TESTED FOR DRYNESS WITH MOISTURE TESTING DEVICE. APPLY NO PAINT OR SEALER ON PLASTER WHEN THE MOISTURE CONTENT EXCEEDS 12% AS DETERMINED BY THE TESTING DEVICE. TEST SUFFICIENT AREAS IN EACH SPACE AND AS OFTEN AS NECESSARY TO DETERMINE THE PROPER MOISTURE CONTENT FOR PAINTING. IF THE MOISTURE CONTENT IS BETWEEN 8% AND 12%, PRIME WITH ALKALI RESISTANT PRIMER. IF 6% OR LESS, PRIME WITH SPECIFIED PRIMER. REMOVE THE DRY SALT DEPOSITS FROM PLASTER SURFACES BY BRUSH ING WITH STIFF BRUSH.

# WORKMANSHIP

- 4.1 PERFORM WORK USING ONLY EXPERIENCED, PAINTERS IN ACCORDANCE WITH THE STANDARDS OF PRACTICE IN THE TRADE. HAND BRUSH OR ROLL WORK EXCEPT WHERE OTHERWISE PERM ITTED. OLYMPIC PRODUCTS ARE TO BE BRUSH APPLIED. WHEN COMPLETED, THE PAINTING SHALL REPRESENT A FIRST-CLASS APPEARANCE. APPLY PAINT MATERIALS UNDER ADEQUATE ILLUMINATION.
- 4.2 TINT PRIMERS AND UNDERCOATS TO APPROXIMATELY THE COLOR OF THE FINISH COAT. EACH COAT SHELL BE SUFFICIENTLY DIFFERENT FROM THE WORK IN PLACE TO PERM IT EAST IDENTIFICATION. 4.3 FINISH EDGES, TOPS AND BOTTOMS OF DOORS THE SAME AS DOOR FACES.
- 4.4 EXPOSED WATER, GAS, WASTE PIPING, EXPOSED CONDUIT, LIGHTING PANELS, TELEPHONE TERMINAL BOXES AND GALVANIZED OR INSULATED DUCTS, SHALL BE PAINTED IN AREAS OTHER THAN MECHANICAL ROOMS. PAINT PORTIONS OF EQUIPMENT EXPOSED TO VIEW FROM GROUND LEVEL AT ANY POINT ON THE
- SITE 4.5 GRILLES AND REGISTERS SHALL BE SPRAY PAINTED WITH ENAMEL OR LACQUER TO MATCH WALLS AND CEILINGS. PAINT MATERIALS SHALL NOT SAG, RUN OR BIND MOVABLE PARTS OF GRILLES OR REGISTERS.
- 4.6 DUCT THROATS BEHIND GRILLES, REGISTERS, LOUVERS, BAFFLES, ETC. SHALL BE GIVEN ONE COAT OF FLAT BLACK OIL PAINT, WHEREVER VISIBILITY OF THE INTERIOR OF THE DUCT IS ALLOWED.
- 4.7 EXAMINE THE MECHANICAL AND ELECTRICAL DRAWINGS TO DETERMINE THE AMOUNT OF EXPOSED WORK TO BE PAINTED
- 4.8 REFER TO THE EXTERIOR ELEVATIONS, ROOM FINISH AND DOOR SCHEDULES ON THE DRAWINGS.
- 4.9 REFER TO THE "FINISH SCHEDULE" ON THE DRAWING FOR DESIGNATED FINISHES OF AREAS, WHICH ARE LISTED IN ACCORDANCE WITH FOLLOWING SCHEDULE.
- 4.10 ITEMS LISTED ARE ACCEPTABLE PRODUCTS OF DUNN EDWARDS PAINTS, FRAZEE PAINTS, AND ICI PAINTS. RESPONSIBILITY FOR RECOMMENDING, SCHEDULING AND USING THE PROPER PAINT FOR THE JOB CONDITIONS RESTS WITH THE MANUFACTURER AND CONTRACTOR.

# SECTION 09 90 00 / INTERIOR, EXTERIOR AND HIGH-PERFORMANCE PAINTS AND COATINGS

# RELATED SECTIONS

SECTION 04 20 00 - UNIT MASONRY: CONCRETE MASONRY UNITS (CMU) AND BRICK.

- SECTION 05 50 00 METAL FABRICATIONS. SECTION 08 11 13.16 - CUSTOM HOLLOW METAL DOORS AND FRAMES.
- SECTION 23 05 00 COMMON WORK RESULTS FOR HVAC. SECTION 26 05 00 - COMMON WORK RESULTS FOR ELECTRICAL.

# REFERENCES

STEEL STRUCTURES PAINTING COUNCIL (SSPC):

- SSPC-SP 1 SOLVENT CLEANING. SSPC-SP 2 - HAND TOOL CLEANING.
- SSPC-SP 3 POWER TOOL CLEANING. SSPC-SP5/NACE NO. 1, WHITE METAL BLAST CLEANING
- SSPC-SP6/NACE NO. 3, COMMERCIAL BLAST CLEANING
- SSPC-SP7/NACE NO. 4, BRUSH-OFF BLAST CLEANING. SSPC-SP10/NACE NO. 2, NEAR-WHITE BLAST CLEANING.
- SSPC-SP11, POWER TOOL CLEANING TO BARE METAL.
- SSPC-SP12/NACE NO. 5, SURFACE PREPARATION AND CLEANING OF METALS BY WATERJETTING PRIOR TO RECOATING.
- SSPC-SP 13 / NACE NO. 6 SURFACE PREPARATION FOR CONCRETE.

MATERIAL SAFETY DATA SHEETS / ENVIRONMENTAL DATA SHEETS: PER MANUFACTURER'S MSDS/EDS FOR SPECIFIC VOCS (CALCULATED PER 40 CFR 59.406). VOCS MAY VARY BY BASE AND SHEEN.

CALIFORNIA DEPARTMENT OF PUBLIC HEALTH (CDPH): CDPH V1.1-2010 AND V1.2-2017

# SUBMITTALS

SUBMIT UNDER PROVISIONS OF SECTION 01 30 00 - ADMINISTRATIVE REQUIREMENTS.

- 1.1 PRODUCT DATA: FOR EACH PAINT SYSTEM INDICATED, INCLUDING:
  - PRODUCT CHARACTERISTICS. SURFACE PREPARATION INSTRUCTIONS AND RECOMMENDATIONS.
  - PRIMER REQUIREMENTS AND FINISH SPECIFICATION. STORAGE AND HANDLING REQUIREMENTS AND RECOMMENDATIONS.
  - APPLICATION METHODS.
  - CAUTIONS FOR STORAGE, HANDLING AND INSTALLATION.

1.2 SELECTION SAMPLES: SUBMIT A COMPLETE SET OF COLOR CHIPS THAT REPRESENT THE FULL RANGE OF MANUFACTURER'S PRODUCTS, COLORS AND SHEENS AVAILABLE.

1.3 VERIFICATION SAMPLES: FOR EACH FINISH PRODUCT SPECIFIED, SUBMIT SAMPLES THAT REPRESENT ACTUAL PRODUCT, COLOR, AND SHEEN.

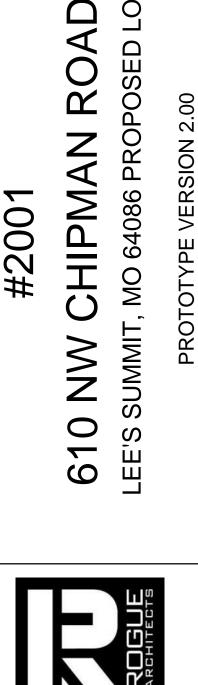
- 1.4 COATING MAINTENANCE MANUAL: UPON CONCLUSION OF PROJECT, THE CONTRACTOR OR PAINT MANUFACTURER/SUPPLIER SHALL FURNISH A COATING MAINTENANCE MANUAL. SUCH AS SHERWIN-WILLIAMS. "CUSTODIAN PROJECT COLOR AND PRODUCT INFORMATION" REPORT OR EQUAL. MANUAL SHALL INCLUDE AN AREA SUMMARY WITH FINISH SCHEDULE, AREA DETAIL DESIGNATING WHERE EACH PRODUCT/COLOR/FINISH WAS USED, PRODUCT DATA PAGES, MATERIAL SAFETY DATA SHEETS, CARE AND CLEANING INSTRUCTIONS, TOUCH-UP PROCEDURES, AND COLOR SAMPLES OF EACH COLOR AND FINISH
- 1.5 ONLY SUBMIT COMPLYING PRODUCTS BASED ON PROJECT REQUIREMENTS (I.E. LEED). ONE MUST ALSO COMPLY WITH THE REGULATIONS REGARDING VOCS (CARB, OTC, SCAQMD, LADCO). TO ENSURE COMPLIANCE WITH DISTRICT REGULATIONS AND OTHER RULES, BUSINESSES THAT PERFORM COATING ACTIVITIES SHOULD CONTACT THE LOCAL DISTRICT IN EACH AREA WHERE THE COATING WILL BE USED.
- 1.6 USGBC LEED V4 SUBMITTALS:
  - MRC2 ENVIRONMENTAL PRODUCT DECLARATION PRODUCT LANGUAGE: PRODUCTS SHALL BE SELECTED WITH A PREFERENCE TO PRODUCTS THAT HAVE PRODUCT-SPECIFIC ENVIRONMENTAL PRODUCT DECLARATION DOCUMENTATION.
  - B. EQC2 LOW EMITTING MATERIALS: THE VOC CONTENT OF ALL ADHESIVES, SEALANTS, PAINTS, AND COATINGS IN THIS SECTION SHALL NOT EXCEED THE VOC LIMITS ESTABLISHED IN DIVISION 01 SUSTAINABLE DESIGN SECTIONS.

# QUALITY ASSURANCE

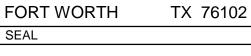
- 21 INSTALLER QUALIFICATIONS: A FIRM OR INDIVIDUAL EXPERIENCED IN APPLYING PAINTS AND COATINGS SIMILAR IN MATERIAL, DESIGN, AND EXTENT TO THOSE INDICATED FOR THIS PROJECT, WHOSE WORK HAS RESULTED IN APPLICATIONS WITH A RECORD OF SUCCESSFUL IN-SERVICE PERFORMANCE.
- 2.2 PAINT EXPOSED SURFACES. IF A COLOR OF FINISH, OR A SURFACE IS NOT SPECIFICALLY MENTIONED. ARCHITECT WILL SELECT FROM STANDARD PRODUCTS, COLORS, AND SHEENS AVAILABLE.
- 2.3 DO NOT PAINT PREFINISHED ITEMS, CONCEALED SURFACES, FINISHED METAL SURFACES, OPERATING PARTS, AND LABELS UNLESS INDICATED.

MOCK-UP: PROVIDE A MOCK-UP FOR EVALUATION OF SURFACE PREPARATION TECHNIQUES AND 2.4 APPLICATION WORKMANSHIF

- FINISH SURFACES FOR VERIFICATION OF PRODUCTS, COLORS, AND SHEENS.
- FINISH AREA DESIGNATED BY ARCHITECT. PROVIDE SAMPLES THAT DESIGNATE PRIMER AND FINISH COATS.
- COMPATIBILITY AND ADHESION: CHECK AFTER ONE WEEK OF DRYING AND CURING BY TESTING IN ACCORDANCE WITH ASTM D3359; ADHESION BY TAPE TEST. IF COATING SYSTEM IS INCOMPATIBLE. ADDITIONAL SURFACE PREPARATION UP TO AND INCLUDING COMPLETE REMOVAL MAY BE REQUIRED.
- DO NOT PROCEED WITH REMAINING WORK UNTIL THE ARCHITECT APPROVES THE MOCK-UP.









PERMIT SET: 04/12/2024

CONTRACTOR SHALL VERIFY ALL CONDITIONS AND DIMENSIONS AT THE JOB SITE AND NOTIFY THE ARCHITECT OF ANY DIMENSIONAL ERRORS, OMISSIONS OR DISCREPANCIES BEFORE BEGINNING OR FABRICATING ANY WORK. DO NOT SCALE DRAWINGS.

ISSUE DATE DESCRIPTION

| PRO. | JECT INF | ORMATION |
|------|----------|----------|

| PROJECT INFORMAT | ION        |
|------------------|------------|
| PROJECT NO:      | 24-0087    |
| ORIGINAL ISSUE:  | 10/23/23   |
| SCALE:           | AS NOTED   |
| DRAWN BY:        | P. C       |
| CHECKED BY:      | J. JEFFERY |

SHEET TITLE

# SPECIFICATIONS

| <b>DELIV</b><br>3.1 | ERY, STORAGE, AND HANDLING<br>DELIVERY: DELIVER MANUFACTURER'S UNOPENED CONTAINERS TO THE WORK SITE. PACKAGING SHALL                                                                                                                                                                                                                                                                                                                                                                                              | 14.2                  | PROCEED WITH WORK ONLY AFTER CONDIT<br>OTHERWISE APPLICATION OF COATINGS WI<br>CONDITIONS.                                                                                                                                                                                                   |
|---------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 3.1                 | <ul> <li>BEAR THE MANUFACTURER'S NAME, LABEL, AND THE FOLLOWING LIST OF INFORMATION.</li> <li>A. PRODUCT NAME, AND TYPE (DESCRIPTION).</li> <li>B. APPLICATION AND USE INSTRUCTIONS.</li> <li>C. SURFACE PREPARATION.</li> </ul>                                                                                                                                                                                                                                                                                  | 14.3<br><u>SURF</u> 4 | PREVIOUSLY PAINTED SURFACES: VERIFY<br>BASED PAINTS, NOTIFY ARCHITECT IMMEDI/                                                                                                                                                                                                                |
|                     | <ul> <li>D. VOC CONTENT.</li> <li>E. ENVIRONMENTAL HANDLING.</li> <li>F. BATCH DATE.</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                   | 15.1                  | GENERAL: SURFACES SHALL BE DRY AND IN<br>PEELING PAINT OR OTHER CONTAMINATION                                                                                                                                                                                                                |
| 3.2                 | G. COLOR NUMBER.<br>STORAGE: STORE AND DISPOSE OF SOLVENT-BASED MATERIALS, AND MATERIALS USED WITH SOLVENT-<br>BASED MATERIALS, IN ACCORDANCE WITH REQUIREMENTS OF LOCAL AUTHORITIES HAVING JURISDICTION.                                                                                                                                                                                                                                                                                                         | 15.2                  | PRIOR TO ATTEMPTING TO REMOVE MILDEN<br>INCONSPICUOUS AREA PRIOR TO USE. BLEAD<br>DISCOLOR EXISTING PAINT FILMS. BLEACH                                                                                                                                                                      |
| 3<br>4              | STORE MATERIALS IN AN AREA THAT IS WITHIN THE ACCEPTABLE TEMPERATURE RANGE, PER<br>MANUFACTURER'S INSTRUCTIONS. PROTECT FROM FREEZING.<br>HANDLING: MAINTAIN A CLEAN, DRY STORAGE AREA, TO PREVENT CONTAMINATION OR DAMAGE TO THE<br>COATINGS.                                                                                                                                                                                                                                                                    | 15.3                  | REMOVE MILDEW BEFORE PAINTING BY WA<br>AND 3 PARTS OF WARM WATER. APPLY SOL<br>REMAIN ON THE SURFACE FOR 10 MINUTES<br>SURFACE TO DRY BEFORE PAINTING. WEAR<br>AND PROTECTIVE CLOTHING. QUICKLY WAS                                                                                          |
| ROJE                | CT CONDITIONS<br>MAINTAIN ENVIRONMENTAL CONDITIONS (TEMPERATURE, HUMIDITY, AND VENTILATION) WITHIN LIMITS<br>RECOMMENDED BY MANUFACTURER FOR OPTIMUM RESULTS. DO NOT INSTALL PRODUCTS UNDER                                                                                                                                                                                                                                                                                                                       | 15.4                  | YOUR SKIN. DO NOT ADD DETERGENTS OR A<br>REMOVE ITEMS INCLUDING BUT NOT LIMITE<br>AND SIMILAR ITEMS PRIOR TO PAINTING. AF                                                                                                                                                                    |
| <b>XTR</b> /        | ENVIRONMENTAL CONDITIONS OUTSIDE MANUFACTURER'S RECOMMENDED LIMITS.<br>MATERIALS<br>FURNISH EXTRA PAINT MATERIALS FROM THE SAME PRODUCTION RUN AS THE MATERIALS APPLIED AND, IN                                                                                                                                                                                                                                                                                                                                   | 15.5                  | AREA, REINSTALL ITEMS REMOVED USING V<br>NO EXTERIOR PAINTING SHOULD BE DONE I<br>RAIN IS PREDICTED, OR WHEN THE TEMPER<br>PRODUCTS ARE DESIGNED SPECIFICALLY F                                                                                                                              |
| .2                  | THE QUANTITIES, DESCRIBED BELOW. PACKAGE WITH PROTECTIVE COVERING FOR STORAGE AND IDENTIFY WITH LABELS DESCRIBING CONTENTS. DELIVER EXTRA MATERIALS TO OWNER.                                                                                                                                                                                                                                                                                                                                                     | 15.6                  | SIDING, THE AIR, SURFACE AND MATERIAL T<br>HIGHER TO USE LOW TEMPERATURE PRODU<br>ALUMINUM: REMOVE ALL OIL, GREASE, DIRT                                                                                                                                                                     |
|                     | 1 GAL (3.8 L) OR 1 CASE, AS APPROPRIATE.                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 15.7                  | SSPC-SP1, SOLVENT CLEANING.<br>BLOCK (CINDER AND CONCRETE): REMOVE                                                                                                                                                                                                                           |
| 5.1<br>5.2          | ACCEPTABLE MANUFACTURER: SHERWIN-WILLIAMS, WHICH IS LOCATED AT: 101 PROSPECT AVE.;<br>CLEVELAND, OH 44115; ASD TOLL FREE TEL: 800-524-5979; TEL: 216-566-2000; FAX: 440-826-1989; EMAIL:<br>REQUEST INFOSPECIFICATIONS@SHERWIN.COM; WEB:WWW.SWSPECS.COM.<br>REQUESTS FOR SUBSTITUTIONS WILL BE CONSIDERED IN ACCORDANCE WITH PROVISIONS OF SECTION 01                                                                                                                                                             | 13.7                  | BEGOR (CINDER AND CONCRETE): REMOVEL, D<br>BE FREE OF LAITANCE, CONCRETE DUST, D<br>LOOSE CEMENT, AND HARDENERS. CONCRE<br>DEGREES F (24 DEGREES C). THE PH OF THI<br>PRODUCTS ARE DESIGNED TO BE USED IN H<br>CONCRETE, COMMERCIAL DETERGENTS AN<br>SURFACE. FILL BUG HOLES, AIR POCKETS, A |
| APPLI               | 60 00 - PRODUCT REQUIREMENTS.<br>CATIONS/SCOPE                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 15.8                  | CONCRETE, SSPC-SP13 OR NACE 6: THIS ST<br>OF CONCRETE BY MECHANICAL, CHEMICAL                                                                                                                                                                                                                |
| .1<br>.2            | EXTERIOR PAINT AND COATING SYSTEMS:<br>CONCRETE: NON-VEHICULAR CONCRETE FLOORS, PATIOS, PORCHES, STEPS, AND PLATFORMS.                                                                                                                                                                                                                                                                                                                                                                                            |                       | BONDED PROTECTIVE COATING OR LINING S<br>APPLICABLE TO ALL TYPES OF CEMENTITION<br>AND WALLS, PRECAST SLABS, MASONRY WA<br>CONCRETE SURFACE SHOULD BE FREE OF                                                                                                                                |
| AINT                | MATERIALS – GENERAL                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                       | AND DUST, AND SHOULD PROVIDE A SOUND<br>PROTECTIVE COATING OR LINING SYSTEMS                                                                                                                                                                                                                 |
| 3.1                 | <ul> <li>PAINTS AND COATINGS:</li> <li>A. UNLESS OTHERWISE INDICATED, PROVIDE FACTORY-MIXED COATINGS. WHEN REQUIRED, MIX<br/>COATINGS TO CORRECT CONSISTENCY IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS<br/>BEFORE APPLICATION. DO NOT REDUCE, THIN, OR DILUTE COATINGS OR ADD MATERIALS TO<br/>COATINGS UNLESS SUCH PROCEDURE IS SPECIFICALLY DESCRIBED IN MANUFACTURER'S PRODUCT<br/>INSTRUCTIONS.</li> <li>B. FOR OPAQUE FINISHES, TINT EACH COAT INCLUDING PRIMER COAT AND INTERMEDIATE COATS,</li> </ul> | 15.9                  | CEMENT COMPOSITION SIDING/PANELS: REF<br>APPROPRIATE CLEANER, RINSE THOROUGH<br>SHOULD BE SCRAPED AND SANDED TO A SC<br>OF 2100 PSI PRESSURE TO REMOVE ALL DIF<br>MATERIAL, AND PEELING OR DEFECTIVE CO<br>OF THE SURFACE SHOULD BE BETWEEN 6 A<br>HIGH PH ENVIRONMENTS.                     |
|                     | ONE-HALF SHADE LIGHTER THAN SUCCEEDING COAT, WITH FINAL FINISH COAT AS BASE COLOR. OR FOLLOW MANUFACTURES PRODUCT INSTRUCTIONS FOR OPTIMAL COLOR CONFORMANCE.                                                                                                                                                                                                                                                                                                                                                     | 15.10                 | COPPER AND STAINLESS STEEL: REMOVE A<br>BY CLEANING PER SSPC-SP 2, HAND TOOL (                                                                                                                                                                                                               |
| .2<br>.3            | PRIMERS: WHERE THE MANUFACTURER OFFERS OPTIONS ON PRIMERS FOR A PARTICULAR SUBSTRATE,<br>USE PRIMER CATEGORIZED AS "BEST" BY THE MANUFACTURER.<br>COATING APPLICATION ACCESSORIES: PROVIDE ALL PRIMERS, SEALERS, CLEANING AGENTS, CLEANING                                                                                                                                                                                                                                                                        | 15.11                 |                                                                                                                                                                                                                                                                                              |
|                     | CLOTHS, SANDING MATERIALS, AND CLEAN-UP MATERIALS REQUIRED, PER MANUFACTURER'S SPECIFICATIONS.                                                                                                                                                                                                                                                                                                                                                                                                                    | 15.12                 | DRYWALL - EXTERIOR: MUST BE CLEAN AND                                                                                                                                                                                                                                                        |
| .4                  | COLOR: REFER TO FINISH SCHEDULE FOR PAINT COLORS, AND AS SELECTED.<br>V4 and V4.1 EQ CREDIT: INDOOR ENVIRONMENTAL QUALITY-LOW EMITTING MATERIALS.                                                                                                                                                                                                                                                                                                                                                                 |                       | MUST BE TAPED AND COVERED WITH A JOIN<br>BE SANDED SMOOTH, AND ALL DUST REMOV<br>SPACKLED WITH EXTERIOR GRADE COMPOU                                                                                                                                                                         |
|                     | IOR PAINT AND COATING SYSTEMS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 15.13                 | MUST BE TAPED AND COVERED WITH A JOIN                                                                                                                                                                                                                                                        |
| ).1                 | CONCRETE: CEMENTITIOUS SIDING, FLEXBOARD, TRANSITE BOARD, NON-ROOF SHINGLES, COMMON BRICK, STUCCO, EIFS, TILT-UP, PRECAST, AND POURED-IN-PLACE CEMENT.                                                                                                                                                                                                                                                                                                                                                            | 15.14                 |                                                                                                                                                                                                                                                                                              |
| <u>АТЕХ</u><br>0.1  | <u>SYSTEMS:</u><br>FLAT FINISH:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                       | REMOVE GREASES AND OILS. APPLY A TEST<br>LEAST ONE WEEK BEFORE TESTING. IF ADH<br>TO REMOVE THESE TREATMENTS.                                                                                                                                                                                |
| 0.2                 | <ul> <li>A. 1ST COAT: S-W LOXON CONCRETE AND MASONRY PRIMER SEALER, LX02W50 (5.3-8.0 MILS WET, 2.1-<br/>3.2 MILS DRY).</li> <li>B. 2ND COAT: S-W SUPERPAINT EXTERIOR LATEX FLAT, A80 SERIES.</li> <li>C. 3RD COAT: S-W SUPERPAINT EXTERIOR LATEX FLAT, A80 SERIES (4.0 MILS WET, 1.4 MILS DRY PER<br/>COAT).</li> <li>METAL: MISCELLANEOUS. IRON, ORNAMENTAL IRON, STRUCTURAL IRON AND STEEL, FERROUS METAL,<br/>HOLLOW METAL DOORS AND FRAMES, PARAPET COPINGS, CANOPIES/AWNINGS.</li> </ul>                     | 15.15                 | PLASTER: MUST BE ALLOWED TO DRY THOR<br>PRODUCTS ARE DESIGNED TO BE USED IN H<br>DRYING; IN COLD, DAMP WEATHER, ROOMS<br>AN APPROPRIATE PATCHING MATERIAL. BAR<br>POROUS, OR POWDERY PLASTER SHOULD B<br>TO 1 GALLON OF WATER. REPEAT UNTIL THE<br>DRY.                                      |
| 0.3                 | ALKYD SYSTEMS; WATERBASED:<br>A. SEMI-GLOSS FINISH:<br>i. 1ST COAT: S-W PRO INDUSTRIAL PRO-CRYL UNIVERSAL PRIMER, B66-1310 SERIES (5.0 MILS<br>WET, 2.0 MILS DRY).                                                                                                                                                                                                                                                                                                                                                | 15.16                 | PREPARATIONS DESCRIBED BELOW. THESE<br>DESCRIBING METHODS FOR CLEANING STR<br>THE SOCIETY OF PROTECTIVE COATINGS. A                                                                                                                                                                          |
| UREI                | <ul> <li>ii. 2ND COAT: S-W PRO INDUSTRIAL WATERBASED ALKYD URETHANE ENAMEL SEMI-GLOSS,<br/>B53-1150 SERIES.</li> <li>iii. 3RD COAT: S-W PRO INDUSTRIAL WATERBASED ALKYD URETHANE ENAMEL SEMI-GLOSS,<br/>B53-1150 SERIES (4.0-5.0 MILS WET, 1.4 - 1.7 MILS DRY PER COAT).</li> <li>D ASPHALT, CONCRETE, AND BRICK: NON-VEHICULAR FLOORS, PATIOS, PORCHES, STEPS AND PLATFORMS.</li> </ul>                                                                                                                          | 15.17                 | NUMBERS BY WHICH THEY CAN BE SPECIFIE<br>SOLVENT CLEANING, SSPC-SP1: SOLVENT C<br>GREASE, SOIL, DRAWING AND CUTTING COM<br>CLEANING DOES NOT REMOVE RUST OR MIL<br>FREQUENTLY SO THAT DEPOSITS OF OIL AN                                                                                     |
| 1.1                 | ACRYLIC SYSTEM WATER-BASED: CURED ASPHALT:<br>A. ACRYLIC SYSTEM WATER-BASED: FLOOR FINISH:<br>i. 1ST COAT: S-W PROPARK WATERBORNE TRAFFIC MARKING PAINT, B97 SERIES (330 LINEAL<br>FEET OF STANDARD 4-INCH STRIPE PER GALLON).<br>ii. 2ND COAT: S-W SHER-CRYL HPA, B66-350 SERIES (6.0 M-10.0 MILS WET, 2.0-3.3 MILS DRY PER                                                                                                                                                                                      | 15.18                 | CLEANING PROCESS. BE SURE TO ALLOW A<br>HAND TOOL CLEANING, SSPC-SP2: HAND TO<br>AND OTHER DETRIMENTAL FOREIGN MATTE<br>PAINT BE REMOVED BY THIS PROCESS. BEF<br>SOLUBLE WELDING RESIDUES, AND SALTS E                                                                                       |
|                     | COAT). *WITH SILICA SAND BROADCAST FOR SLIP RESISTANCE.<br>SE NOTE, A MOCK-UP FOR COLOR RETENTION, ADHESION AND HOT TIRE PICK-UP TESTING IS REQUIRED<br>TO FULL APPLICATION.                                                                                                                                                                                                                                                                                                                                      | 15.19                 | POWER TOOL CLEANING, SSPC-SP3: POWER<br>RUST, AND OTHER DETRIMENTAL FOREIGN<br>RUST, AND PAINT BE REMOVED BY THIS PRO                                                                                                                                                                        |
|                     | OR PAINT AND COATING COMMERCIAL SYSTEMS:<br>SYSTEMS; WATERBASED:                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 15.20                 | GREASE, SOLUBLE WELDING RESIDUES, AN<br>WHITE METAL BLAST CLEANING, SSPC-SP5 (<br>VIEWED WITHOUT MAGNIFICATION, SHALL B<br>RUST, PAINT, OXIDES, CORROSION PRODUC                                                                                                                             |
| 2.1                 | SEMI-GLOSS FINISH:<br>A. 1ST COAT: S-W EXTREME BOND PRIMER, B51W01150 (3.1 MILS WET, 1.0 MILS DRY).<br>B. 2ND COAT: S-W PRO INDUSTRIAL WATERBASED ALKYD URETHANE ENAMEL SEMI-GLOSS, B53-1150<br>SERIES.                                                                                                                                                                                                                                                                                                           | 15.21                 | VISIBLE DEPOSITS OF OIL OR GREASE SHAL<br>SP1 OR OTHER AGREED UPON METHODS.                                                                                                                                                                                                                  |
| 1ET A               | C. 3RD COAT: S-W PRO INDUSTRIAL WATERBASED ALKYD URETHANE ENAMEL SEMI-GLOSS, B53-1150<br>SERIES (4.0-5.0 MILS WET, 1.4 - 1.7 MILS DRY PER COAT).<br>: HOLLOW METAL DOORS AND FRAMES.                                                                                                                                                                                                                                                                                                                              |                       | RUST, PAINT, OXIDES, CORROSION PRODUC<br>STAINING SHALL BE LIMITED TO NO MORE T<br>AND MAY CONSIST OF LIGHT SHADOWS, SLI                                                                                                                                                                     |
|                     | SYSTEMS; WATERBASED:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                       | OF RUST, STAINS OF MILL SCALE, OR STAIN<br>VISIBLE DEPOSITS OF OIL OR GREASE SHAL<br>SP1 OR OTHER AGREED UPON METHODS.                                                                                                                                                                       |
| 3.1                 | <ul> <li>SEMI-GLOSS FINISH:</li> <li>A. 1ST COAT: S-W PRO INDUSTRIAL PRO-CRYL UNIVERSAL PRIMER, B66-1310 SERIES (5.0 MILS WET, 2.0 MILS DRY).</li> <li>B. 2ND COAT: S-W PRO INDUSTRIAL WATERBASED ALKYD URETHANE ENAMEL SEMI-GLOSS, B53-1150 SERIES.</li> </ul>                                                                                                                                                                                                                                                   | 15.22                 | BRUSH-OFF BLAST CLEANING, SSPC-SP7 OF<br>VIEWED WITHOUT MAGNIFICATION, SHALL B<br>SCALE, LOOSE RUST, AND LOOSE PAINT. TIC<br>ON THE SURFACE. BEFORE BLAST CLEANING                                                                                                                           |
| EXAMI               | C. 3RD COAT: S-W PRO INDUSTRIAL WATERBASED ALKYD URETHANE ENAMEL SEMI-GLOSS, B53-1150<br>SERIES (4.0-5.0 MILS WET, 1.4 - 1.7 MILS DRY PER COAT).                                                                                                                                                                                                                                                                                                                                                                  | 15.23                 | ACCORDING TO THIS SPECIFICATION, WHEN                                                                                                                                                                                                                                                        |
| 14.1                | DO NOT BEGIN INSTALLATION UNTIL SUBSTRATES HAVE BEEN PROPERLY PREPARED; NOTIFY ARCHITECT<br>OF UNSATISFACTORY CONDITIONS BEFORE PROCEEDING. IF SUBSTRATE PREPARATION IS THE<br>RESPONSIBILITY OF ANOTHER INSTALLER, NOTIFY ARCHITECT OF UNSATISFACTORY PREPARATION BEFORE<br>PROCEEDING.                                                                                                                                                                                                                          |                       | VISIBLE OIL, GREASE, DIRT, DUST, MILL SCA<br>FOREIGN MATTER. SLIGHT RESIDUES OF RU<br>THE ORIGINAL SURFACE IS PITTED. PRIOR T<br>DEPOSITS OF OIL OR GREASE BY ANY OF TH<br>OTHER AGREED UPON METHODS.                                                                                        |
|                     | r Roceebing.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                       |                                                                                                                                                                                                                                                                                              |

# VILL BE CONSIDERED AS AN ACCEPTANCE OF SURFACE

THAT EXISTING PAINTED SURFACES DO NOT CONTAIN LEAD-DIATELY IF LEAD-BASED PAINTS ARE ENCOUNTERED.

IN SOUND CONDITION. REMOVE OIL, DUST, DIRT, LOOSE RUST, IN TO ENSURE GOOD ADHESION.

EW, IT IS RECOMMENDED TO TEST ANY CLEANER ON A SMALL, EACH AND BLEACHING TYPE CLEANERS MAY DAMAGE OR ALTERNATIVE CLEANING SOLUTIONS ARE ADVISED.

ASHING WITH A SOLUTION OF 1 PART LIQUID HOUSEHOLD BLEACH DLUTION AND SCRUB THE MILDEWED AREA. ALLOW SOLUTION TO S. RINSE THOROUGHLY WITH CLEAN WATER AND ALLOW AR PROTECTIVE GLASSES OR GOGGLES, WATERPROOF GLOVES, ASH OFF ANY OF THE MIXTURE THAT COMES IN CONTACT WITH AMMONIA TO THE BLEACH/WATER SOLUTION.

ED TO THERMOSTATS, ELECTRICAL OUTLETS, SWITCH COVERS AFTER COMPLETING PAINTING OPERATIONS IN EACH SPACE OR WORKERS SKILLED IN THE TRADES INVOLVED.

IMMEDIATELY AFTER A RAIN, DURING FOGGY WEATHER, WHEN ERATURE IS BELOW 50 DEGREES F (10 DEGREES C), UNLESS FOR THESE CONDITIONS. ON LARGE EXPANSES OF METAL . TEMPERATURES MUST BE 50 DEGREES F (10 DEGREES F) OR DUCTS.

RT, OXIDE, AND OTHER FOREIGN MATERIAL BY CLEANING PER

E ALL LOOSE MORTAR AND FOREIGN MATERIAL. SURFACE MUST DIRT, FORM RELEASE AGENTS, MOISTURE CURING MEMBRANES, RETE AND MORTAR MUST BE CURED AT LEAST 30 DAYS AT 75 HE SURFACE SHOULD BE BETWEEN 6 AND 9 UNLESS THE I HIGH PH ENVIRONMENTS, ON TILT-UP AND POURED-IN-PLACE ND ABRASIVE BLASTING MAY BE NECESSARY TO PREPARE THE AND OTHER VOIDS WITH A CEMENT PATCHING COMPOUND.

TANDARD GIVES REQUIREMENTS FOR SURFACE PREPARATION .. OR THERMAL METHODS PRIOR TO THE APPLICATION OF SYSTEMS. THE REQUIREMENTS OF THIS STANDARD ARE OUS SURFACES INCLUDING CAST-IN-PLACE CONCRETE FLOORS VALLS, AND SHOTCRETE SURFACES. AN ACCEPTABLE PREPARED F CONTAMINANTS, LAITANCE, LOOSELY ADHERING CONCRETE, ND, UNIFORM SUBSTRATE SUITABLE FOR THE APPLICATION OF

EMOVE ALL SURFACE CONTAMINATION BY WASHING WITH AN GHLY AND ALLOW TO DRY. EXISTING PEELED OR CHECKED PAINT SOUND SURFACE. PRESSURE CLEAN, IF NEEDED, WITH A MINIMUM IRT. DUST, GREASE, OIL, LOOSE PARTICLES, LAITANCE, FOREIGN COATINGS. ALLOW THE SURFACE TO DRY THOROUGHLY. THE PH AND 9 UNLESS THE PRODUCTS ARE DESIGNED TO BE USED IN

ALL OIL, GREASE, DIRT, OXIDE, AND OTHER FOREIGN MATERIAL CLEANING.

DARD): SOME COMPOSITION BOARDS MAY EXUDE A WAXY A SOLVENT PRIOR TO COATING. WHETHER FACTORY PRIMED OR RD SIDING (HARDBOARD) MUST BE CLEANED THOROUGHLY AND

ND DRY. ALL NAIL HEADS MUST BE SET AND SPACKLED. JOINTS INT COMPOUND. SPACKLED NAIL HEADS AND TAPE JOINTS MUST OVED PRIOR TO PAINTING. EXTERIOR SURFACES MUST BE OUNDS.

D DRY. ALL NAIL HEADS MUST BE SET AND SPACKLED. JOINTS INT COMPOUND. SPACKLED NAIL HEADS AND TAPE JOINTS MUST VED PRIOR TO PAINTING

1 USING DETERGENT AND WATER OR A DEGREASING CLEANER TO ST AREA, PRIMING AS REQUIRED. ALLOW THE COATING TO DRY AT HESION IS POOR, BRUSH BLAST PER SSPC-SP16 IS NECESSARY

DROUGHLY FOR AT LEAST 30 DAYS BEFORE PAINTING UNLESS THE HIGH PH ENVIRONMENTS. ROOM MUST BE VENTILATED WHILE S MUST BE HEATED. DAMAGED AREAS MUST BE REPAIRED WITH ARE PLASTER MUST BE CURED AND HARD. TEXTURED, SOFT, BE TREATED WITH A SOLUTION OF 1 PINT HOUSEHOLD VINEGAR HE SURFACE IS HARD, RINSE WITH CLEAR WATER AND ALLOW TO

R ITEMS: SHOULD BE CLEANED BY ONE OR MORE OF THE SURFACE SE METHODS ARE USED THROUGHOUT THE WORLD FOR RUCTURAL STEEL. VISUAL STANDARDS ARE AVAILABLE THROUGH A BRIEF DESCRIPTION OF THESE STANDARDS TOGETHER WITH FIED FOLLOW.

CLEANING IS A METHOD FOR REMOVING ALL VISIBLE OIL, OMPOUNDS, AND OTHER SOLUBLE CONTAMINANTS. SOLVENT AILL SCALE, CHANGE RAGS AND CLEANING SOLUTION AND GREASE ARE NOT SPREAD OVER ADDITIONAL AREAS IN THE ADEQUATE VENTILATION.

OOL CLEANING REMOVES ALL LOOSE MILL SCALE, LOOSE RUST, ER. IT IS NOT INTENDED THAT ADHERENT MILL SCALE, RUST, AND FOREHAND TOOL CLEANING, REMOVE VISIBLE OIL, GREASE, BY THE METHODS OUTLINED IN SSPC-SP1.

ER TOOL CLEANING REMOVES ALL LOOSE MILL SCALE, LOOSE N MATTER. IT IS NOT INTENDED THAT ADHERENT MILL SCALE. ROCESS. BEFORE POWER TOOL CLEANING, REMOVE VISIBLE OIL, ND SALTS BY THE METHODS OUTLINED IN SSPC-SP1.

5 OR NACE 1: A WHITE METAL BLAST CLEANED SURFACE, WHEN BE FREE OF ALL VISIBLE OIL, GREASE, DIRT, DUST, MILL SCALE, JCTS, AND OTHER FOREIGN MATTER. BEFORE BLAST CLEANING, ALL BE REMOVED BY ANY OF THE METHODS SPECIFIED IN SSPC-

3 OR NACE 3: A COMMERCIAL BLAST CLEANED SURFACE, WHEN BE FREE OF ALL VISIBLE OIL, GREASE, DIRT, DUST, MILL SCALE, UCTS, AND OTHER FOREIGN MATTER, EXCEPT FOR STAINING. THAN 33 PERCENT OF EACH SQUARE INCH OF SURFACE AREA LIGHT STREAKS, OR MINOR DISCOLORATION CAUSED BY STAINS NS OF PREVIOUSLY APPLIED PAINT. BEFORE BLAST CLEANING, ALL BE REMOVED BY ANY OF THE METHODS SPECIFIED IN SSPC-

DR NACE 4: A BRUSH-OFF BLAST CLEANED SURFACE, WHEN BE FREE OF ALL VISIBLE OIL, GREASE, DIRT, DUST, LOOSE MILL FIGHTLY ADHERENT MILL SCALE, RUST, AND PAINT MAY REMAIN NG, VISIBLE DEPOSITS OF OIL OR GREASE SHALL BE REMOVED BY C-SP 1 OR OTHER AGREED UPON METHODS.

SSPC-SP11: METALLIC SURFACES THAT ARE PREPARED EN VIEWED WITHOUT MAGNIFICATION, SHALL BE FREE OF ALL ALE, RUST, PAINT, OXIDE CORROSION PRODUCTS, AND OTHER RUST AND PAINT MAY BE LEFT IN THE LOWER PORTIONS OF PITS IF TO POWER TOOL SURFACE PREPARATION, REMOVE VISIBLE THE METHODS SPECIFIED IN SSPC-SP1, SOLVENT CLEANING, OR

- ITIONS HAVE BEEN CORRECTED AND APPROVED BY ALL PARTIES, 15.24 NEAR-WHITE BLAST CLEANING, SSPC-SP10 OR NACE 2: A NEAR WHITE BLAST CLEANED SURFACE, WHEN VIEWED WITHOUT MAGNIFICATION, SHALL BE FREE OF ALL VISIBLE OIL, GREASE, DIRT, DUST, MILL SCALE, RUST, PAINT, OXIDES, CORROSION PRODUCTS, AND OTHER FOREIGN MATTER, EXCEPT FOR STAINING. STAINING SHALL BE LIMITED TO NO MORE THAN 5 PERCENT OF EACH SQUARE INCH OF SURFACE AREA AND MAY CONSIST OF LIGHT SHADOWS, SLIGHT STREAKS, OR MINOR DISCOLORATION CAUSED BY STAINS OF RUST, STAINS OF MILL SCALE, OR STAINS OF PREVIOUSLY APPLIED PAINT. BEFORE BLAST CLEANING. VISIBLE DEPOSITS OF OIL OR GREASE SHALL BE REMOVED BY ANY OF THE METHODS SPECIFIED IN SSPC-SP1 OR OTHER AGREED UPON METHODS.
  - 15.25 HIGH- AND ULTRA-HIGH PRESSURE WATER JETTING FOR STEEL AND OTHER HARD MATERIALS: SSPC-SP12 OR NACE 5: THIS STANDARD PROVIDES REQUIREMENTS FOR THE USE OF HIGH- AND ULTRA-HIGH PRESSURE WATER JETTING TO ACHIEVE VARIOUS DEGREES OF SURFACE CLEANLINESS. THIS STANDARD IS LIMITED IN SCOPE TO THE USE OF WATER ONLY WITHOUT THE ADDITION OF SOLID PARTICLES IN THE STREAM.
  - 15.26 WATER BLASTING, SSPC-SP12/NACE NO. 5: REMOVAL OF OIL GREASE DIRT, LOOSE RUST, LOOSE MILL SCALE, AND LOOSE PAINT BY WATER AT PRESSURES OF 2,000 TO 2,500 PSI AT A FLOW OF 4 TO 14 GALLONS PER MINUTE.
  - 15.27 VINYL SIDING, ARCHITECTURAL PLASTICS, EIFS AND FIBERGLASS: CLEAN VINYL SIDING THOROUGHLY BY SCRUBBING WITH A WARM, SOAPY WATER SOLUTION. RINSE THOROUGHLY. DO NOT PAINT VINYL SIDING WITH ANY COLOR DARKER THAN THE ORIGINAL COLOR UNLESS THE PAINT SYSTEM FEATURES SHERWIN-WILLIAMS VINYLSAFE TECHNOLOGY. PAINTING WITH DARKER COLORS THAT ARE NOT SHERWIN-WILLIAMS VINYLSAFE MAY CAUSE SIDING TO WARP. FOLLOW ALL PAINTING GUIDELINES OF THE VINYL MANUFACTURER WHEN PAINTING. ONLY PAINT PROPERLY INSTALLED VINYL SIDING. DEVIATING FROM THE MANUFACTURER'S PAINTING GUIDELINES MAY CAUSE THE WARRANTY TO BE VOIDED.
  - STUCCO: MUST BE CLEAN AND FREE OF ANY LOOSE STUCCO. IF RECOMMENDED PROCEDURES FOR 15.28 APPLYING STUCCO ARE FOLLOWED, AND NORMAL DRYING CONDITIONS PREVAIL, THE SURFACE MAY BE PAINTED IN 30 DAYS. THE PH OF THE SURFACE SHOULD BE BETWEEN 6 AND 9 UNLESS THE PRODUCTS ARE DESIGNED TO BE USED IN HIGH PH ENVIRONMENTS SUCH AS LOXON.
  - 15.29 WOOD: MUST BE CLEAN AND DRY. PRIME AND PAINT AS SOON AS POSSIBLE. KNOTS AND PITCH STREAKS MUST BE SCRAPED, SANDED, AND SPOT PRIMED BEFORE A FULL PRIMING COAT IS APPLIED. PATCH ALL NAIL HOLES AND IMPERFECTIONS WITH A WOOD FILLER OR PUTTY AND SAND SMOOTH.

### INSTALLATION

- 16.1 APPLY ALL COATINGS AND MATERIALS WITH THE MANUFACTURER'S SPECIFICATIONS IN MIND. MIX AND THIN COATINGS ACCORDING TO MANUFACTURER'S RECOMMENDATIONS.
- DO NOT APPLY TO WET OR DAMP SURFACES. WAIT AT LEAST 30 DAYS BEFORE APPLYING TO NEW 16.2 CONCRETE OR MASONRY, OR FOLLOW MANUFACTURER'S PROCEDURES TO APPLY APPROPRIATE COATINGS PRIOR TO 30 DAYS. TEST NEW CONCRETE FOR MOISTURE CONTENT. WAIT UNTIL WOOD IS FULLY DRY AFTER RAIN OR MORNING FOG OR DEW.
- 16.3 APPLY COATINGS USING METHODS RECOMMENDED BY MANUFACTURER.
- 16.4 UNIFORMLY APPLY COATINGS WITHOUT RUNS, DRIPS, OR SAGS, WITHOUT BRUSH MARKS, AND WITH CONSISTENT SHEEN.
- 16.5 APPLY COATINGS AT SPREADING RATE REQUIRED TO ACHIEVE THE MANUFACTURERS RECOMMENDED DRY FILM THICKNESS.
- 16.6 REGARDLESS OF NUMBER OF COATS SPECIFIED, APPLY AS MANY COATS AS NECESSARY FOR COMPLETE HIDE, AND UNIFORM APPEARANCE.
- INSPECTION: THE COATED SURFACE MUST BE INSPECTED AND APPROVED BY THE ARCHITECT JUST PRIOR 16.7 TO THE APPLICATION OF EACH COAT.

# PROTECTION

- 17.1 PROTECT FINISHED COATINGS FROM DAMAGE UNTIL COMPLETION OF PROJECT.
- 17.2 TOUCH-UP DAMAGED COATINGS AFTER SUBSTANTIAL COMPLETION, FOLLOWING MANUFACTURER'S RECOMMENDATION FOR TOUCH UP OR REPAIR OF DAMAGED COATINGS. REPAIR ANY DEFECTS THAT WILL HINDER THE PERFORMANCE OF THE COATINGS.

PART 1 GENERAL

**RELEASED FOR** CONSTRUCTION oted on Plans Revie

|       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |          | Development Services Depa<br>Lee's Summit, Missou<br>07/03/2024 | artmer<br>Iri |
|-------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|-----------------------------------------------------------------|---------------|
| 2.7   | FASCIA SHALL BE STANDARD 8" FLAT FACE, 8" OPEN CHANNEL FACE, OR 10" OPEN CHANNEL FACE,<br>EXTRUDED ALUMINUM, ALLOY 6063-T5 AT A NOMINAL THICKNESS OF 1/8". DEVIATION FROM THESE FACES<br>WILL REQUIRE BRAKE-FORMED OR EXTRUDED ALUMINUM PIECES TO BE ATTACHED MECHANICALLY TO THE<br>8" SNAP CHANNEL.                                                                                                                                                                                                                                                                                                                                           |          |                                                                 |               |
| FINIS | <u>HES</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | GA       |                                                                 |               |
| 2.8   | STANDARD POWDER-COAT FINISH SHALL CONFORM WITH AAMA 2603 SPECIFICATIONS. COLOR CHARTS AND SAMPLES ARE AVAILABLE UPON REQUEST.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | JA       | CO CO                                                           |               |
| 2.9   | OPTIONAL FINISHES INCLUDE STANDARD AND CUSTOM TWO-COAT KYNAR COLORS, AND WOOD-LOOK<br>"SUBLIMATED" FINISH                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |          |                                                                 |               |
| FABR  | ICATION                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |          |                                                                 |               |
| 2.10  | ALL SEATTLE CANOPIES ARE SHIPPED IN PRE-ASSEMBLED SECTIONS FOR EASE OF INSTALLATION.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |          |                                                                 |               |
| 2.11  | ALL CONNECTIONS SHALL BE MECHANICALLY ASSEMBLED, UTILIZING 410 STAINLESS STEEL #10 AND #14<br>SIZE FASTENERS WITH A MINIMUM SHEAR STRESS OF 350 LB.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |          |                                                                 |               |
| 2.12  | CONCEALED DRAINAGE. WATER SHALL DRAIN FROM COVERED SURFACES INTO GUTTER EXTRUSION LOCATED AT THE FRONT FOR FRONT DRAINAGE VIA SCUPPERS.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |          | n                                                               |               |
| PART  | 3: EXECUTION                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |          |                                                                 |               |
| INSPE | CTION                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |          |                                                                 |               |
| 3.1   | CONFIRM THAT SURROUNDING AREA IS READY FOR THE CANOPY INSTALLATION                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |          |                                                                 |               |
| 3.2   | INSTALLER SHALL CONFIRM DIMENSIONS AND ELEVATIONS TO BE AS SHOWN ON DRAWINGS PROVIDED BY AWNEX INC.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |          | <b>S</b> OSE<br>0                                               |               |
|       | ERECTION SHALL BE PERFORMED BY AN QUALIFIED INSTALLER OF SIMILAR PRODUCTS AND SCHEDULED<br>AFTER ALL CONCRETE, MASONRY, AND ROOFING IN THE AREA IS COMPLETED                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |          | <b>1AN R</b><br>6 PROPO<br>RSION 2.00                           |               |
| INSTA | ILLATION                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |          | N NO                                                            |               |
| 3.4   | INSTALLATION SHALL BE PERFORMED IN STRICT ACCORDANCE WITH MANUFACTURER'S SHOP DRAWINGS.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | <b>—</b> | <b>1</b><br>6 F<br>RS                                           |               |
|       | PARTICULAR ATTENTION SHOULD BE GIVEN TO PROTECTING THE FINISH DURING HANDLING AND<br>INSTALLATION. AFTER INSTALLATION, ENTIRE SYSTEM SHALL BE CLEANED, INSPECTED, SEALED, AND LEFT<br>IN A CLEAN CONDITION.                                                                                                                                                                                                                                                                                                                                                                                                                                     | #200     | 6408<br>6408<br>PE VE                                           |               |
| SEC   | TION 31 31 00 / TERMITE TREATMENT                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | ++       |                                                                 |               |
| 1.1   | <ul> <li>UPON COMPLETION OF SOIL POISONING, AND AS A CONDITION OF FINAL ACCEPTANCE, SUBMIT TO OWNER<br/>A WRITTEN GUARANTEE PROVIDING THAT: <ul> <li>A. THE APPLICATION WAS MADE AT THE CONCENTRATION RATES AND METHODS IN COMPLIANCE<br/>WITH THE SPEC IFICATION.</li> <li>B. THE EFFECTIVENESS OF THE TREATMENT IS GUARANTEED FOR A TERM OF FIVE YEARS.</li> <li>C. EVIDENCE OF SUBTERRANEAN TERM ITE ACTIVITY OR DAMAGE TO THE STRUCTURE RESULTING<br/>FROM SUCH ACTIVITY WITHIN THE GUARANTEE PERIOD WILL BE TREATED AND REPAIRED.</li> <li>D. THE GUARANTEE SHALL BE DRAWN IN FAVOR OF OWNER, SUCCESSOR OR ASSIGNS.</li> </ul> </li> </ul> |          | O NW (<br>s summit,<br>Pro                                      |               |
| 1.2   | APPLICATOR SHALL BE LII ENSED BY THE STATE PEST CONTROL BOARD.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |          | τ ū                                                             |               |
| 1.3   | THE CHEMICAL BEING USED SHALL BE REGISTERED WITH, AND BE APPROVED BE, THE PRODUCTION AND MARKETING ADMINISTRATION OF THE USDA.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |          |                                                                 |               |
| 1.4   | CHEMICAL ANALYSIS TESTS SHALL BE MADE OF MATERIALS USED ON THE BASIS OF ONE TEST FOR EACH 10,000 SF OF TREATED AREA. SAMPLES AND TEST MAY BE TAKEN OF BOTH CONCENTRATES AND THE DILUTE MATERIALS AS BEING APPLIED.                                                                                                                                                                                                                                                                                                                                                                                                                              |          |                                                                 |               |
| MATE  | RIALS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |          | 1 1/0                                                           |               |
| 2.1   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |          | $\mathbf{\Pi}_{\mathbf{u}}^{L}$                                 |               |

2.1 CHEMICALS USED SHALL BE THOSE THAT ARE FEDERALLY REGISTERED IN ACCORDANCE WITH FEDERAL INSECTICIDE, FUNGICIDE AND RODENTICI DE ACT, AS AMENDED SEPTEMBER 30, 1978, FOR SOIL TREATMENT

2.2 APPLY ONE OF THE FOLLOWING CHEMICALS AS A WATER EMULSION AT NOT LESS THAN THE CONCENTRATIONS AND VOLUMES REQUIRED TO OBTAIN SPECIFIED GUARANTEE. PERMETH RIN CYPERMETH RIN

## APPLICATION

- APPLICATION SHALL BE IN ACCORDANCE WITH PUBLIC LAW 94 140 (FEDERAL INSECTICIDE, FUNGICIDE AND 3.1 RODENTICIDE ACT, AS AMENDED SEPTEMBER 30, 1978) AND THE MANUFACTURER'S PRINTED INSTRUCTIONS FOR THE SPECIFIC PRODUCT APPLIED.
- SUFFICIENT NOTICE SHALL BE GIVEN TO PERMIT APPLICATION TO BE MADE AT LEAST 12 HOURS PRIOR TO 3.2 CONCRETE PLACEMENT. TO AVOID SURFACE FLOW OF THE TOXICANT FROM THE APPLICATION SITE, TREATMENT SHALL NOT BE MADE WHEN SOIL OR FILL IS EXCESSIVELY WET. APPLY ONLY AFTER PREPARATION FOR SLAB PLACEMENT HAS BEEN COMPLETED. THERE SHALL BE NO DISTURBANCE OF TREATED AREAS.
- 3.3 APPLY NO MATERIAL WITHOUT NOTIFICATION TO OWNER SO HE MAY BE PRESENT DURING APPLICATION. APPLY DURING NORMAL WORKING HOURS IN ORDER TO BE SUBJECT TO INSPECTION. PERM IT INSPECTOR TO SAMPLE AND MATERIAL USED, AND TO VERIFY THE RATE OF APPLICATION AND VOLUMES.

### AREAS OF APPLICATION

- 4.1 MAKE APPLICATION IN THE FOLLOWING AREAS:
  - UNDER NEW BUILDING FLOOR SLABS ALONG THE INTERIOR SIDE OF FOUNDATION WALLS
  - ALONG THE EXTERIOR SIDE OF FOUNDATION WALLS WHERE FLOORS, ENTRANCES. SIDEWALKS. ETC., WILL ABUT THE BUILDINGS
  - ALONG EXPANSION OR COLD JOINTS WHEREVER SLAB WILL BE PENETRATED BY CONSTRUCTION FEATURES
  - UNDER NEW EXTERIOR CONCRETE SLABS ABUTTING THE BUILDING FOR AN AREA AT LEAST 3 FEET WIDE ADJACENT TO THE BUILDING WALL. AT VOIDS OF CONCRETE UNIT MASONRY FOUNDATION WALLS USE EMULSION THAT WILL ADHERE TO SURFACE OF BLOCK CAVITIES.

SECTION 32 31 13 GALVANIZED CHAIN LINK FENCE AND GATES

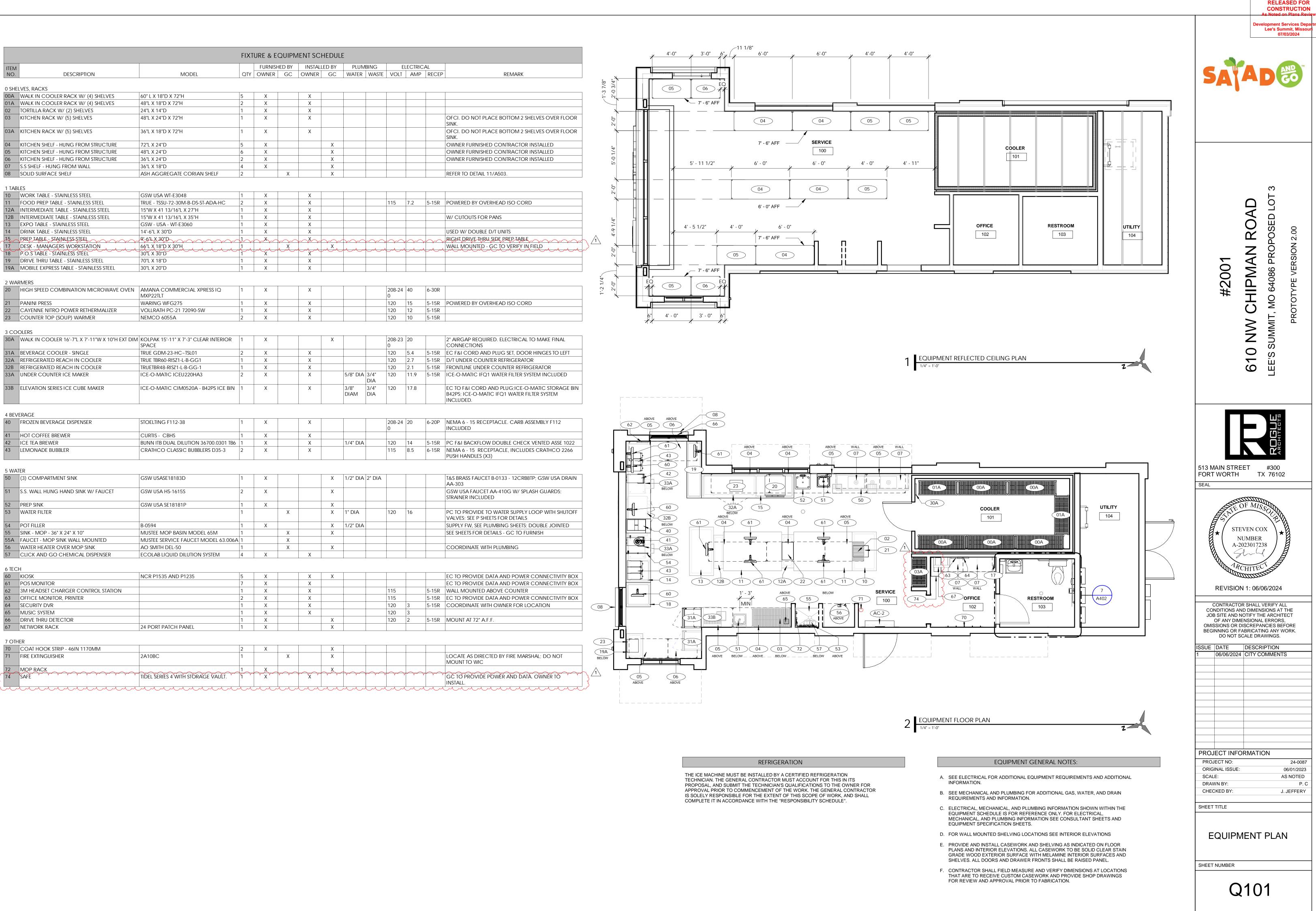
### PART 1 GENERAL

513 MAIN STREET #300 FORT WORTH TX 76102 **STEVEN COX** NUMBER A-2023017238 PERMIT SET: 04/12/2024 CONTRACTOR SHALL VERIFY ALL CONDITIONS AND DIMENSIONS AT THE JOB SITE AND NOTIFY THE ARCHITECT OF ANY DIMENSIONAL ERRORS, OMISSIONS OR DISCREPANCIES BEFORE BEGINNING OR FABRICATING ANY WORK. DO NOT SCALE DRAWINGS. ISSUE DATE DESCRIPTION PROJECT INFORMATION PROJECT NO: 24-0087 ORIGINAL ISSUE 10/23/23 AS NOTED SCALE: DRAWN BY: P. C CHECKED BY: J. JEFFERY

SHEET TITLE

# SPECIFICATIONS

| Dim         Line         Line <thline< th="">         Line         Line         L</thline<>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |              |                                       |                                       | FIXT   | URE & E | QUIPN | IENT SCI | HEDUL            | E        |        |        |      |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------|---------------------------------------|---------------------------------------|--------|---------|-------|----------|------------------|----------|--------|--------|------|
| MM         MM         Res         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X <th></th> <th>DESCRIPTION</th> <th>MODEL</th> <th>QTY</th> <th></th> <th></th> <th>-</th> <th></th> <th></th> <th></th> <th></th> <th></th>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |              | DESCRIPTION                           | MODEL                                 | QTY    |         |       | -        |                  |          |        |        |      |
| Max         Max         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X <td>ר כוובו</td> <td></td>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | ר כוובו      |                                       |                                       |        |         |       |          |                  |          |        |        |      |
| Dim         August Margo State (198)         Sol (197)         1         X         2         1         X         2         1         X         2         1         X         2         1         X         2         1         X         2         1         X         2         1         X         2         1         X         2         1         X         2         1         X         2         1         X         2         1         1         X         2         1         1         X         2         1         1         1         1         X         2         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1 <th1< th=""> <th1< th="">         1         &lt;</th1<></th1<>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |              |                                       | 60" L X 18"D X 72"H                   | 5      | Х       |       | Х        |                  |          |        |        |      |
| N         N         N         N         N         N         N         N         N         N         N         N         N         N         N         N         N         N         N         N         N         N         N         N         N         N         N         N         N         N         N         N         N         N         N         N         N         N         N         N         N         N         N         N         N         N         N         N         N         N         N         N         N         N         N         N         N         N         N         N         N         N         N         N         N         N         N         N         N         N         N         N         N         N         N         N         N         N         N         N         N         N         N         N         N         N         N         N         N         N         N         N         N         N         N         N         N         N         N         N         N         N         N         N         N         N         N                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 01A          | WALK IN COOLER RACK W/ (4) SHELVES    |                                       | 2      |         |       |          |                  |          |        |        |      |
| NAME         ORCHAN, GALC GU, (3) SHE VAYS         NY                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |              |                                       |                                       | 1      |         |       |          |                  |          |        |        |      |
| International and construction         International and construction         International and construction         International and construction           International and construction         International and construction         International and construction         International and construction         International and construction           International and construction         International and construction         International and construction         International and construction           International and construction         International and construction         International and construction         International and construction           International and construction         International and construction         International and construction         International and construction           International and construction         International and construction         International and construction         International and construction           International and construction         International and construction         International and construction         International and construction           International and construction         International and construction         International and construction         International and construction           International and construction         International and construction         International and construction         International and construction           Internation         International and construction <td< td=""><td>)3</td><td>KIICHEN RACK W/ (5) SHELVES</td><td>48°L X 24°D X 72°H</td><td>1</td><td>X</td><td></td><td>X</td><td></td><td></td><td></td><td></td><td></td></td<>                                                                                                                                                                                                                                                                                                                                                 | )3           | KIICHEN RACK W/ (5) SHELVES           | 48°L X 24°D X 72°H                    | 1      | X       |       | X        |                  |          |        |        |      |
| Bit         MarkovskiMarkovski-Unik         MarkovskiMarkovski-Unik         MarkovskiMarkovski                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 03A          | KITCHEN RACK W/ (5) SHELVES           | 36"L X 18"D X 72"H                    | 1      | Х       |       | Х        |                  |          |        |        |      |
| INCOMPARIABLE ALLOS SOLUCIÓN SOLUC |              |                                       |                                       |        |         |       |          |                  |          |        |        |      |
| Statistical Functional Report Walk         Bit N = 1         N         N         N         N         N         N         N         N         N         N         N         N         N         N         N         N         N         N         N         N         N         N         N         N         N         N         N         N         N         N         N         N         N         N         N         N         N         N         N         N         N         N         N         N         N         N         N         N         N         N         N         N         N         N         N         N         N         N         N         N         N         N         N         N         N         N         N         N         N         N         N         N         N         N         N         N         N         N         N         N         N         N         N         N         N         N         N         N         N         N         N         N         N         N         N         N         N         N         N         N         N         N         N                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |              |                                       |                                       |        |         |       |          |                  |          |        |        |      |
| Index         Control         Control         State                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |              |                                       |                                       |        |         |       |          |                  |          |        |        |      |
| Image Number Name Part Structures Structure         Converties Advances Structures Struct          | 08           | SOLID SURFACE SHELF                   | ASH AGGREGATE CORIAN SHELF            | 2      |         | Х     |          | Х                |          |        |        |      |
| Bit         Month Safe - State Fissippin         General Safe - State Fissippin         General Safe - State Fissippin         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X <t< td=""><td>1 TADI</td><td>ES</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></t<>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 1 TADI       | ES                                    |                                       |        |         |       |          |                  |          |        |        |      |
| IN         POOD REFE TABL. 32 AND RESIDENT         THE LETION ADDING RESIDENT         Yes         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |              |                                       | GSW USA WT-E3048                      | 1      | Х       |       | Х        |                  |          |        |        |      |
| NUMBER COLUMN PROVINCE STATUL         STAL         STAL <thstal< th="">          STAL         STAL<!--</td--><td></td><td></td><td></td><td>2</td><td></td><td></td><td></td><td></td><td></td><td></td><td>115</td><td>7.2</td></thstal<>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |              |                                       |                                       | 2      |         |       |          |                  |          |        | 115    | 7.2  |
| INS         New Yorker - State Fisser:         CeV         ISA         X         X           ID         Mark Taker - State Segme         YeeL RVD         I         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X <td></td> <td></td> <td></td> <td>1</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |              |                                       |                                       | 1      |         |       |          |                  |          |        |        |      |
| Image: Name: Status Statu         14-6 UK 37D         1         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         Z         Z         Z         X         X         Z         Z         Z         Z         X         X         Z <thz< th="">         Z         <thz< th="">        &lt;</thz<></thz<>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |              |                                       |                                       | 1      |         |       |          |                  |          |        |        |      |
| Inst.         Inst. (Marchaels Subject                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |              |                                       |                                       | 1      |         |       |          |                  |          |        |        |      |
| 12         Less, HARMAGGES WORGS ATLON         65 LX TIS P X 201         1         X         X         X         X         L         X         X         X         L         X         X         X         L         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         Z         Z         Z         Z         Z         Z         Z         Z         Z         Z         Z         Z         Z         Z         Z         Z         Z         Z         Z         Z         Z         Z         Z         Z         Z         Z         Z         Z         Z <thz< th="">         Z         Z         Z<td></td><td></td><td></td><td>1</td><td></td><td></td><td></td><td><math>\sim \sim \sim</math></td><td></td><td></td><td></td><td></td></thz<>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |              |                                       |                                       | 1      |         |       |          | $\sim \sim \sim$ |          |        |        |      |
| IP         Device LINU FUNCTIONE STARLES STELL         APT X STED         1         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         Z         Z         Z         Z         Z         X         Z         Z         Z         Z         Z         Z         Z         Z         Z         Z         Z         Z         Z         Z         Z         Z         Z         Z         Z         Z         Z         Z         Z         Z         Z         Z         Z         Z         Z         Z <thz< t<="" td=""><td><u>~ ^ ~</u></td><td>DESK - MANAGERS WORKSTATION</td><td>66"L X 18"D X 30"H</td><td>1</td><td></td><td>X</td><td></td><td>X</td><td></td><td></td><td></td><td></td></thz<>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | <u>~ ^ ~</u> | DESK - MANAGERS WORKSTATION           | 66"L X 18"D X 30"H                    | 1      |         | X     |          | X                |          |        |        |      |
| MAX         MORELEXTRES TABLE STARLESS TIEL         2/X XUD         1         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         Z         Z         Z         Z         Z         Z         Z         Z         Z         Z         Z         Z         Z         Z         Z         Z         Z         Z         Z         Z         Z         Z         Z         Z         Z         Z         Z         Z         Z         Z         Z <thz< th="">         Z         <thz< th="">         Z</thz<></thz<>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |              |                                       |                                       | 1      |         |       |          |                  |          |        |        |      |
| AVARAMINS         AVARANCE COMMUNICATION IN CONSIMULTION IN CONSIMULTION IN ACCOMMUNICATION REPORTS         AVAILATION REST         AVAILATION RECOMMUNICATION IN CONSIMULTION IN ACCOMMUNICATION REPORTS         AVAILATION REST         AVAILATION RECENT AVAILATION IN CONSIMULTION IN ACCOMMUNICATION REPORTS         AVAILATION RECENT AVAILATION IN ACCOMMUNICATION IN ACCOMMUNICATION RECOMMUNICATION RECENT AVAILATION REPORTS         AVAILATION AVAILATION REPORT                                                                                                                                                                                                                                                                                                                                                                                                                      |              |                                       |                                       | 1      |         |       |          |                  |          |        |        |      |
| Bit Hele SPED COMBINATION MICROWAVE OVEN         MAMAL COMMERCIAL REPERSION         I         X         X         I         D20124         0           11         PARIN RESS         WARKING WYC275         1         X         X         120         12           20         CANTENE MIRRO POWER RETHERMALIZER         WOLRATH CC 2172000 SW         1         X         X         120         12         12         12         12         12         12         12         12         12         12         12         12         12         12         12         12         12         12         12         12         12         12         12         12         12         12         12         12         12         12         12         12         12         12         12         12         12         12         12         12         12         12         12         12         12         12         12         12         12         12         12         12         12         12         12         12         12         12         12         12         12         12         12         12         12         12         12         12         12         12 <t< td=""><td>177</td><td></td><td>30 1 7 20 0</td><td>1</td><td>Λ</td><td></td><td>Λ</td><td></td><td></td><td></td><td></td><td></td></t<>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 177          |                                       | 30 1 7 20 0                           | 1      | Λ       |       | Λ        |                  |          |        |        |      |
| MARQUET         MARQUET         Image: Constraints of comparison of constraints of comparison of constraints of comparison of comparison of constraints of comparison of constraints of comparison of c                   | 2 WAF        | RMERS                                 |                                       |        |         |       |          |                  | _        |        |        |      |
| Parkin Press         WARRING WEG275         1         X         X         Image: Constraint of Carlos Press         Parking Press                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 20           | HIGH SPEED COMBINATION MICROWAVE OVEN |                                       | 1      | Х       |       | Х        |                  |          |        |        | 40   |
| 22         CARTINUE NURCE POWER RUTHERMANDER         VOLKART PC 21 220 95 W         1         X         X         N         120         120         120         120         120         120         120         120         120         120         120         120         120         120         120         120         120         120         120         120         120         120         120         120         120         120         120         120         120         120         120         120         120         120         120         120         121         120         121         121         121         121         121         121         121         121         121         121         121         121         121         121         121         121         121         121         121         121         121         121         121         121         121         121         121         121         121         121         121         121         121         121         121         121         121         121         121         121         121         121         121         121         121         121         121         121         121         121                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 21           | PANINI PRESS                          |                                       | 1      | X       |       | X        |                  |          |        |        | 15   |
| COOLERS           VARUE NOOLER 10-71 X 7-11 WX 10 <sup>41</sup> EXT DIM KOLFAK 10-11 X 7-3" CLEAR INTERIOR         1         X         X         208-22         20           SPACE         TRUE GMA3-HC_TSUT         2         X         X         1.20         2.1           SPACE         TRUE GMA3-HC_TSUT         2         X         X         1.20         2.1           SPACE         TRUE GMA3-HC_TSUT         2         X         X         1.20         2.1           SPACE         COOLER         TRUE GMA6HST-Le-GC-1         1         X         X         1.20         2.1           SPACE         COOLER         TRUE GMA6HST Le-GC-1         1         X         X         1.20         2.1           SPACE         CIGE-OMATIC CIM0530A - 8/2PS ICE BIN         1         X         X         1.20         2.1         1.8           SPACE         SPACE         SPACE         SPACE           INVERMENTING MAKER         ICIGE-INIG F112-39         1         X         X         1.4         2         2         2         2         2         2         1.15                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |              |                                       |                                       | 1      |         |       |          |                  |          |        |        |      |
| MAX         WALKIN COOLER 10-71, X 7-117W, X 101H EXI DM, KOLPAK 15-117, X 7-3 CLEAR INTERIOR         I         X         X         I         Z         X         I         Z         X         Z         Z         X         X         Z         Z         X         X         Z         Z         X         X         X         X         X         Z         Z         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         Z         Z         Z         X         X         X         X         Z <thz< t<="" td=""><td>23</td><td>Counter Top (Soup) warmer</td><td>NEMCO 6055A</td><td>2</td><td>Х</td><td></td><td>Х</td><td></td><td></td><td></td><td>120</td><td>10</td></thz<>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 23           | Counter Top (Soup) warmer             | NEMCO 6055A                           | 2      | Х       |       | Х        |                  |          |        | 120    | 10   |
| NAMELIN COOLER 16-7L X 7-11YW X 10°H EXT DM KOLPAK 15°11'X 7-3° CLEAR INTERIOR       1       X       X       X       208-22       20         11A       EVERAGE COOLER - SINGLE       INUE CED/231-C-TX01       2       X       X       X       1       120       5         12B       EVERAGE COOLER - SINGLE       INUE REPROPERTURA-B-GG 1       1       X       X       X       1       120       2       2       2       X       X       X       1       20       1       1       2       2       X       X       X       1       120       1       1       2       1       1       2       1       1       2       1       1       1       X       X       X       1       1       1       1       X       X       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |              |                                       |                                       |        |         |       |          |                  |          |        |        |      |
| SPACE         Image: SPACE <thimage: space<="" th="">         Image: SPACE</thimage:>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |              |                                       |                                       | 1      | X       |       |          | X                |          |        | 208-23 | 20   |
| NUMBER         NUMBER         State         N         X         X         N         N         N         N         N         N         N         N         N         N         N         N         N         N         N         N         N         N         N         N         N         N         N         N         N         N         N         N         N         N         N         N         N         N         N         N         N         N         N         N         N         N         N         N         N         N         N         N         N         N         N         N         N         N         N         N         N         N         N         N         N         N         N         N         N         N         N         N         N         N         N         N         N         N         N         N         N         N         N         N         N         N         N         N         N         N         N         N         N         N         N         N         N         N         N         N         N         N         N         N                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 5077         |                                       |                                       | 1      | ~       |       |          | Χ                |          |        |        | 20   |
| B28       ERFINICEANED REACH IN COOLER       TRUITBALE RIST LE GG 1       1       X       X       X       X       X       X       X       X       X       X       X       X       X       X       X       X       X       X       X       X       X       X       X       X       X       X       X       X       X       X       X       X       X       X       X       X       X       X       X       X       X       X       X       X       X       X       X       X       X       X       X       X       X       X       X       X       X       X       X       X       X       X       X       X       X       X       X       X       X       X       X       X       X       X       X       X       X       X       X       X       X       X       X       X       X       X       Z       Z       Z       X       X       X       X       X       X       Z       Z       Z       X       X       Z       Z       Z       X       Z       Z       Z       Z       Z <thz< th=""> <thz< th="">       Z</thz<></thz<>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |              |                                       |                                       | 2      |         |       |          |                  |          |        |        | -    |
| BAA         UNDER COUNTRICE MAKER         ICE-G-MARIC ICFU20HA3         2         X         X         567 DIA<br>DIA<br>DIA         347         100         119           BBB         ELEVATION SERIES ICE CUBE MAKER         ICE-G-MARIC CIM052DA - B/2PS ICE BIN         1         X         X         2/6*         347         100         17.8           BEVERAGE         ICE-G-MARIC CIM052DA - B/2PS ICE BIN         1         X         X         2/6*         347         100         17.8           BEVERAGE         ICE-G-MARIC CIM052DA - B/2PS ICE BIN         1         X         X         1/4*         DA         2/0*         2/2         2/2         2/2         2/2         2/2         2/2         2/2         2/2         2/2         2/2         X         1/4*         DA         1/2         1/4*         DA         1/2         1/4*         DA         1/2         1/4*         DA         1/4*         1/4*         DA         1/4*         DA         1/4*         DA         1/4*         1/4*                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |              |                                       |                                       | 1      |         |       |          |                  |          |        |        |      |
| Image: State of the series of the s |              |                                       |                                       | 2      |         |       |          |                  | 5/8" DIA | 3/4"   |        | _    |
| Image: Stand  | 5577         |                                       |                                       | 2      |         |       | ~        |                  | 5/0 0//  |        | 120    | 11.7 |
| Instrument       Instrument       Instrument       Instrument       Instrument       Instrument       Instrument         18EVERAGE       1       X       X       X       X       Instrument       Instrument <td>33B</td> <td>ELEVATION SERIES ICE CUBE MAKER</td> <td>ICE-O-MATIC CIM0520A - B42PS ICE BIN</td> <td>1</td> <td>Х</td> <td></td> <td>Х</td> <td></td> <td></td> <td></td> <td>120</td> <td>17.8</td>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 33B          | ELEVATION SERIES ICE CUBE MAKER       | ICE-O-MATIC CIM0520A - B42PS ICE BIN  | 1      | Х       |       | Х        |                  |          |        | 120    | 17.8 |
| 90       FROZEN BEVERAGE DISPENSER       STOELTING F112-38       1       X       X       X       X       X       X       X       X       X       X       X       X       X       X       X       X       X       X       X       X       X       X       X       X       X       X       X       X       X       X       X       X       X       X       X       X       X       X       X       X       X       X       X       X       X       X       X       X       X       X       X       X       X       X       X       X       X       X       X       X       X       X       X       X       X       X       X       X       X       X       X       X       X       X       X       X       X       X       X       X       X       X       X       X       X       X       X       X       X       X       X       X       X       X       X       X       X       X       X       X       X       X       X       X       X       X       X       X       X       X       X       X       X<                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |              |                                       |                                       |        |         |       |          |                  |          |        |        |      |
| Image: Constraint of the second state of th |              |                                       |                                       |        | 1       |       |          |                  |          | 1      |        |      |
| International and the state of the stat         | 40           | FROZEN BEVERAGE DISPENSER             | STOELTING F112-38                     | 1      | Х       |       | Х        |                  |          |        |        | 20   |
| 12       ICE TEA BREWER       BUNN ITB DUAL DILUTION 36700.0301 T66       1       X       X       1/4" DIA       120       14         13       LEMONADE BUBBLER       CRATHCO CLASSIC BUBBLES D35-3       2       X       X       X       1       115       8.5         50       (3) COMPARTMENT SINK       GSW USASE18183D       1       X       X       1/2" DIA       2" DIA       2       2       X       X       1/2" DIA       2" DIA                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 41           | HOT COFFEE BREWER                     | CURTIS - CBHS                         | 1      | Х       |       | Х        |                  |          |        |        |      |
| SWATER         SWATER         SWATER         SWATER         SWALL HUNG HAND SINK W/ FAUCET         GSW USASE18183D         1         X         X         1/2" DIA         2" DIA                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 42           | ICE TEA BREWER                        | BUNN ITB DUAL DILUTION 36700.0301 TB6 | 1      | Х       |       | Х        |                  | 1/4" DIA |        | 120    | 14   |
| 50       (3) COMPARTMENT SINK       GSW USASE 18183D       1       X       1       X       1/2" DIA       2" DIA         51       S.S. WALL HUNG HAND SINK W/ FAUCET       GSW USA HS-1615S       2       X       X       1       X       X       1       2" DIA       2       X       X       1       X       X       1       2" DIA       2       X       X       1       1       X       X       1       2" DIA       2"                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 43           | LEMONADE BUBBLER                      | CRATHCO CLASSIC BUBBLERS D35-3        | 2      | Х       |       | Х        |                  |          |        | 115    | 8.5  |
| 50       (3) COMPARTMENT SINK       GSW USASE 18183D       1       X       X       1/2" DIA       2" DIA         51       S.S. WALL HUNG HAND SINK W/ FAUCET       GSW USA SE18181P       1       X       X       1       Z       X       1       Z       X       1       Z       DIA       2       X       X       1       Z       DIA       2       X       X       1       Z       DIA       2       DIA                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |              |                                       |                                       |        |         |       |          |                  |          |        |        |      |
| S2         PREP SINK         GSW USA SE18181P         1         X         X         X         X         1" DIA         120         16           53         WATER FILTER         B-0594         1         X         X         1" DIA         120         16           54         POT FILLER         B-0594         1         X         X         1/2" DIA         2         2           55         SINK - MOP - 36" X 24" X 10"         MUSTEE MOP BASIN MODEL 65M         1         X         X         1/2" DIA         2         2         5           54         FAUCET - MOP SINK WALL MOUNTED         MUSTEE SERVICE FAUCET MODEL 63.006A         1         X         X         1         2         2         1         2         2         1         2         2         1         2         2         1         2         2         1         2         2         1         2         2         1         2         2         1         2         2         1         1         1         2         2         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |              |                                       | GSW USASE18183D                       | 1      | Х       |       |          | Х                | 1/2" DIA | 2" DIA |        |      |
| S2         PREP SINK         GSW USA SE18181P         1         X         X         X         X         1" DIA         120         16           53         WATER FILTER         1         X         X         X         1" DIA         120         16           64         POT FILLER         8-0594         1         X         X         1" DIA         2         2           55         SINK - MOP - 36' X 24' X 10"         MUSTEE MOP BASIN MODEL 65M         1         X         X         1/2" DIA         2         5           55         SINK - MOP - 36' X 24' X 10"         MUSTEE SERVICE FAUCET MODEL 63.006A         1         X         X         1         2         1         2         1         2         1         2         1         2         1         2         1         2         1         2         1         2         1         2         1         2         1         2         1         2         1         2         1         2         1         2         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1 <td>51</td> <td>S S. WALL HUNG HAND SINK W/ FAUCET</td> <td>GSW USA HS-1615S</td> <td>2</td> <td>X</td> <td></td> <td></td> <td>×</td> <td></td> <td></td> <td></td> <td></td>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 51           | S S. WALL HUNG HAND SINK W/ FAUCET    | GSW USA HS-1615S                      | 2      | X       |       |          | ×                |          |        |        |      |
| 53       WATER FILTER       1       X       X       1" DIA       120       16         54       POT FILLER       B-0594       1       X       X       1/2" DIA        10         55       SINK - MOP - 36" X 24" X 10"       MUSTEE MOP BASIN MODEL 65M       1       X       X       1/2" DIA         55         55.4       FAUCET - MOP SINK WALL MOUNTED       MUSTEE SERVICE FAUCET MODEL 63.006A       1       X       X            56         64       WATER HEATER OVER MOP SINK       AO SMITH DEL-50       1       X       X       X                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 51           | S.S. WILL HONG HAND SINK WITHOUT      |                                       | 2      |         |       |          | Χ                |          |        |        |      |
| 54         POT FILLER         B-0594         1         X         X         X         1/2" DIA         I           55         SINK - MOP - 36" X 24" X 10"         MUSTEE MOP BASIN MODEL 65M         1         X         X         X         I         I         X         X         I         I         X         I         I         X         X         I         I         X         X         I         I         X         X         I         I         X         X         I         I         I         X         X         I         I         I         I         X         X         I         I         I         I         I         I         X         X         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |              |                                       | GSW USA SE18181P                      | 1      | Х       |       |          |                  |          |        |        |      |
| 55       SINK - MOP - 36" X 24" X 10"       MUSTEE MOP BASIN MODEL 65M       1       X       X       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 53           | WATER FILTER                          |                                       | 1      |         | Х     |          | Х                | 1" DIA   |        | 120    | 16   |
| 535A       FAUCET - MOP SINK WALL MOUNTED       MUSTEE SERVICE FAUCET MODEL 63.006A       1       X       I       X       I       X       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 54           | POT FILLER                            | B-0594                                | 1      | Х       |       |          | Х                | 1/2" DIA |        |        |      |
| 56       WATER HEATER OVER MOP SINK       AO SMITH DEL-50       1       X       X       X       I       I       X       X       I       I       I       X       X       I       I       I       X       X       I       I       I       X       X       I       I       I       X       X       I       I       I       X       X       I       I       I       X       X       I       I       I       X       X       I       I       I       X       X       I       I       I       X       X       I       I       I       X       X       I       I       I       X       X       I       I       I       X       X       I       I       I       X       X       I       I       I       X       X       I       I       I       X       X       I       I       I       X       X       I       I       I       X       X       I       I       I       X       X       I       I       I       X       X       I       I       I       X       I       I       I       X       I       I       I </td <td>55</td> <td>SINK - MOP - 36" X 24" X 10"</td> <td>MUSTEE MOP BASIN MODEL 65M</td> <td>1</td> <td></td> <td>Х</td> <td></td> <td>Х</td> <td></td> <td></td> <td></td> <td></td>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 55           | SINK - MOP - 36" X 24" X 10"          | MUSTEE MOP BASIN MODEL 65M            | 1      |         | Х     |          | Х                |          |        |        |      |
| 57       CLICK AND GO CHEMICAL DISPENSER       ECOLAB LIQUID DILUTION SYSTEM       4       X       X       L       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |              |                                       |                                       | 1      |         |       |          |                  |          |        |        |      |
| 6 TECH         60       KIOSK       NCR P1535 AND P1235       5       X       X       X       X       X       X       X       X       X       X       X       X       X       X       X       X       X       X       X       X       X       X       X       X       X       X       X       X       X       X       X       X       X       X       X       X       X       X       X       X       X       X       X       X       X       X       X       X       X       X       X       X       X       X       X       X       X       X       X       X       X       X       X       X       X       X       X       X       X       X       X       X       X       X       X       X       X       X       X       X       X       X       X       X       X       X       X       X       X       X       X       X       X       X       X       X       X       X       X       X       X       X       X       X       X       X       X       X       X       X       X                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |              |                                       |                                       | 1      | v       | Х     | V        | Х                |          |        |        |      |
| 60       KIOSK       NCR P1535 AND P1235       5       X       X       X       X       Image: Margin and M                                                                                 | 7            | CLICK AND GO CHEIVIICAL DISPENSER     | ECOLAB LIQUID DILUTION STSTEM         | 4      | ^       |       | ^        |                  |          |        |        |      |
| 61       POS MONITOR       7       X       X       1       X       1       X       1       X       115       15         62       3M HEADSET CHARGER CONTROL STATION       1       X       X       X       115       15         63       OFFICE MONITOR, PRINTER       2       X       X       X       115       15         64       SECURITY DVR       1       X       X       X       120       3         65       MUSIC SYSTEM       1       X       X       X       120       3         66       DRIVE THRU DETECTOR       1       X       X       X       120       2         67       NETWORK RACK       24 PORT PATCH PANEL       1       X       X       120       2         70       COAT HOOK STRIP - 46IN 1170MM       2       X       X       X       1       1       1         71       FIRE EXTINGUISHER       2A10BC       1       X       X       X       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1 <td></td>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |              |                                       |                                       |        |         |       |          |                  |          |        |        |      |
| 52       3M HEADSET CHARGER CONTROL STATION       1       X       X       115       1         53       OFFICE MONITOR, PRINTER       2       X       X       115       1         54       SECURITY DVR       1       X       X       120       3         55       MUSIC SYSTEM       1       X       X       120       3         55       MUSIC SYSTEM       1       X       X       120       3         56       DRIVE THRU DETECTOR       1       X       X       120       2         57       NETWORK RACK       24 PORT PATCH PANEL       1       X       X       120       2         70       COAT HOOK STRIP - 46IN 1170MM       2       X       X       X       1       1       1         71       FIRE EXTINGUISHER       2A10BC       1       X       X       X       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |              |                                       | NCR P1535 AND P1235                   |        |         |       |          | Х                |          |        |        |      |
| 53       OFFICE MONITOR, PRINTER       2       X       X       1       115         54       SECURITY DVR       1       X       X       120       3         55       MUSIC SYSTEM       1       X       X       120       3         56       DRIVE THRU DETECTOR       1       X       X       120       2         56       DRIVE THRU DETECTOR       24 PORT PATCH PANEL       1       X       X       120       2         57       NETWORK RACK       24 PORT PATCH PANEL       1       X       X       1       120       2         70       COAT HOOK STRIP - 46IN 1170MM       2       X       X       X       1       1       1         71       FIRE EXTINGUISHER       2410BC       1       X       X       X       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1 </td <td></td> <td></td> <td></td> <td>7</td> <td></td> <td></td> <td>_</td> <td></td> <td></td> <td></td> <td>115</td> <td></td>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |              |                                       |                                       | 7      |         |       | _        |                  |          |        | 115    |      |
| 54       SECURITY DVR       1       X       X       120       3         55       MUSIC SYSTEM       1       X       X       120       3         56       DRIVE THRU DETECTOR       1       X       X       120       2         57       NETWORK RACK       24 PORT PATCH PANEL       1       X       X       120       2         70       COAT HOOK STRIP - 46IN 1170MM       2       X       X       X       1       1       X       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |              |                                       |                                       | 1<br>2 |         |       |          |                  |          |        |        |      |
| 55       MUSIC SYSTEM       1       X       X       120       3         56       DRIVE THRU DETECTOR       1       X       X       120       2         57       NETWORK RACK       24 PORT PATCH PANEL       1       X       X       120       2         70       COAT HOOK STRIP - 46IN 1170MM       2       X       X       X       1       X       1       X       1       X       1       X       1       X       1       X       1       X       1       X       1       X       1       X       1       X       1       X       1       X       1       X       1       X       1       X       1       X       1       X       1       X       1       X       1       X       1       X       1       X       1       X       1       1       X       1       X       1       X       1       X       1       X       1       1       X       1       1       X       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |              |                                       |                                       | 1      |         |       |          |                  |          | -      |        | 3    |
| 57       NETWORK RACK       24 PORT PATCH PANEL       1       X       X       I       I       X       I       I       I       I       X       I       I       I       I       X       I       I       I       X       I       I       I       X       I       I       X       I       I       I       X       I       I       I       X       I       I       I       I       X       I       I       I       I       X       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |              |                                       |                                       | 1      |         | _     | Х        | _                |          |        |        | -    |
| 7 OTHER       2       X       X       0       0         70       COAT HOOK STRIP - 46IN 1170MM       2       X       X       0       0         71       FIRE EXTINGUISHER       2A10BC       1       X       X       1       0       0         72       MOP RACK       1       X       X       0       0       0       0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |              |                                       |                                       | 1      |         |       |          |                  |          |        | 120    | 2    |
| 70       COAT HOOK STRIP - 46IN 1170MM       2       X       X       I         71       FIRE EXTINGUISHER       2A10BC       1       X       X       X       I       I         72       MOP RACK       1       X       X       X       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       <                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | o/           |                                       | 24 PORT PAICH PANEL                   | 1      | X       |       |          | Х                |          |        |        |      |
| 71       FIRE EXTINGUISHER       2A10BC       1       X       X       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I <td>7 OTH</td> <td>ER</td> <td></td>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 7 OTH        | ER                                    |                                       |        |         |       |          |                  |          |        |        |      |
| 72 MOP RACK                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |              |                                       |                                       | 2      | Х       |       |          |                  |          |        |        |      |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 1            | FIRE EXTINGUISHER                     | 2A10BC                                | 1      |         | Х     |          | Х                |          |        |        |      |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 2            | MOP RACK                              |                                       | 1_     | X       |       |          | X                |          |        |        | -    |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |              |                                       |                                       |        |         |       |          |                  | 1        | 1      |        |      |



|                                                                                                                                                                                                                                                                                                                                                                                                                            | GENERAL NOTES                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |     |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|
| A/EARCHITECT/ENGINEEAFFABOVE FINISHED FLCAHUAIR HANDLING UNITAVACID VENTAWACID WASTE                                                                                                                                                                                                                                                                                                                                       | PERFORM ALL WORK IN ACCORDANCE WITH ALL APPLICABLE CODES AND AUTHORITIES<br>HAVING JURISDICTION. PROVIDE ALL PERMITS, INSPECTIONS, LICENSES AND FEES. FURNISH<br>ALL LABOR, EQUIPMENT, SUPPLIES AND MATERIALS NECESSARY TO PROVIDE COMPLETE<br>AND OPERATIONAL SYSTEMS.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 1.  |
| BD       BUILDING DRAIN (BEL         FLOOR)         B.F.G. BELOW FINISHED GRADE         BS       BUILDING SEWER (OU         OF BLDG)         DCW       DOMESTIC COLD WAT         DHW       DOMESTIC HOT WATE         DHWR       DOMESTIC HOT WATE         CIRCULATION LOOP       D         D       EQUIPMENT DRAIN         DI       DEIONIZED WATER         DCO       TWO-WAY GRADE CLI         DSN       DOWNSPOUT NOZZEE | THE DRAWINGS AND SPECIFICATIONS INDICATE THE GENERAL DESIGN AND ARRANGEMENT<br>OF PIPES, FIXTURES, EQUIPMENT, SYSTEMS, ETC. INFORMATION SHOWN IS DIAGRAMMATIC<br>IN CHARACTER AND DOES NOT NECESSARILY INDICATE EVERY REQUIRED OFFSET, FITTING,<br>ETC. DO NOT SCALE THE DRAWINGS FOR DIMENSIONS. TAKE ALL DIMENSIONS,<br>MEASUREMENTS, EQUIPMENT LOCATIONS, LEVELS, ETC FROM THE ARCHITECTURAL<br>DRAWINGS AND FROM THE EQUIPMENT TO BE FURNISHED. PIPING MAY BE RELOCATED OR<br>OFFSET FOR PROPER CLEARANCES OR TO AVOID CONFLICTS WITH OTHER TRADES. THE<br>DESIGN INTENT (I.E. PITCHES, VELOCITIES, PRESSURE DROPS, VOLTAGE DROPS, ETC)<br>CANNOT BE GREATLY ALTERED WITHOUT THE APPROVAL OF THE ARCHITECT. THE COST OF<br>THESE DEVIATIONS TO AVOID INTERFERENCE'S SHALL BE PART OF THE ORIGINAL CONTRACT<br>BID. | 2.  |
| (E)EXISTINGEQUIPEQUIPMENTEWCELECTRIC WATER CC°FDEGREES FAHRENHEFCOFLOOR CLEANOUTFCUFAN COIL UNITFDFLOOR DRAIN                                                                                                                                                                                                                                                                                                              | EACH SUBCONTRACTOR SHALL CONFER AND COOPERATE WITH ALL OTHER TRADES TO<br>COORDINATE THEIR WORK. COORDINATION SHALL INCLUDE, BUT SHALL NOT BE LIMITED TO<br>MATERIALS AND EQUIPMENT ROUTED IN CEILING AND WALL CAVITIES, EQUIPMENT<br>ARRANGEMENT IN MECHANICAL SPACES, INCLUDING EQUIPMENT CLEARANCE<br>REQUIREMENTS, ELEVATIONS AND DIMENSIONS OF STRUCTURAL MEMBERS AND OPENINGS,<br>ETC. THE CONTRACTOR SHALL NOTIFY THE ARCHITECT OF ANY CONFLICTS.                                                                                                                                                                                                                                                                                                                                                               | 3.  |
| FSFLOOR SINKFT.FOOT, FEETFVCFIRE VALVE CABINETGNATURAL GASGCOGRADE CLEANOUT                                                                                                                                                                                                                                                                                                                                                | BASE FINAL INSTALLATION OF MATERIALS AND EQUIPMENT ON ACTUAL DIMENSIONS AND<br>CONDITIONS AT THE PROJECT SITE. FIELD MEASURE FOR MATERIALS AND EQUIPMENT<br>REQUIRING EXACT FIT. NO EXTRAS WILL BE GIVEN FOR THE CONTRACTORS FAILURE TO<br>FIELD COORDINATE.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 4.  |
| GWHNATURAL GAS WATERHHEIGHTHBHOSE BIBBHPHORSEPOWERHWTMHOT WATER TEMPER                                                                                                                                                                                                                                                                                                                                                     | THE OWNER OR ENGINEER ARE NOT RESPONSIBLE FOR THE CONTRACTOR'S SAFETY<br>PRECAUTIONS OR FOR MEANS, METHODS, TECHNIQUES, CONSTRUCTION SEQUENCES, OR<br>PROCEDURES REQUIRED TO PERFORM THE WORK.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 5.  |
| HVTM HOT WATER TEMPER<br>MAINTENANCE CABLE<br>HZ HERTZ<br>IE INVERT ELEVATION<br>IN. INCH, INCHES<br>J-BOX JUNCTION BOX<br>KW KILOWATT                                                                                                                                                                                                                                                                                     | THE CONTRACTOR SHALL LOCATE ALL EQUIPMENT THAT MUST BE SERVICED, OPERATED, OR<br>MAINTAINED IN FULLY ACCESSIBLE POSITIONS. EQUIPMENT SHALL INCLUDE (BUT NOT<br>LIMITED TO) VALVES, SHOCK ABSORBERS, TRAPS, CLEANOUTS, MOTORS, CONTROLLERS,<br>SWITCHGEAR, AND DRAIN POINTS IF REQUIRED FOR BETTER ACCESSIBILITY. FURNISH<br>ACCESS DOORS FOR THIS PURPOSE. MINOR DEVIATIONS FROM THE DRAWINGS MAY BE<br>ALLOWED TO PROVIDE FOR BETTER ACCESSIBILITY. ANY CHANGES SHALL BE APPROVED BY<br>THE ARCHITECT AND CONSTRUCTION MANAGER/GENERAL CONTRACTOR PRIOR TO MAKING                                                                                                                                                                                                                                                     | 6.  |
| DRAW                                                                                                                                                                                                                                                                                                                                                                                                                       | THE CHANGE.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |     |
|                                                                                                                                                                                                                                                                                                                                                                                                                            | THE CONTRACTOR SHALL PROVIDE ACCESS DOORS, WALL OPENINGS, ROOF OPENINGS OR<br>ANY OTHER CONSTRUCTION REQUIREMENT NEEDED TO ACCOMMODATE THE PLUMBING<br>EQUIPMENT. LOCATIONS OF THESE OPENINGS SHALL BE SUBMITTED IN SUFFICIENT TIME TO<br>BE INSTALLED IN THE NORMAL COURSE OF WORK.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 7.  |
| RE: 2/P1.71                                                                                                                                                                                                                                                                                                                                                                                                                | THE CONTRACTOR SHALL COORDINATE ELECTRICAL REQUIREMENTS OF PLUMBING EQUIPMENT WITH THE ELECTRICAL CONTRACTOR PRIOR TO THE PURCHASE AND INSTALLATION OF ANY ELECTRICAL GEAR OR CONDUIT.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 8.  |
| WATER HA                                                                                                                                                                                                                                                                                                                                                                                                                   | PROVIDE VIBRATION ISOLATORS FOR MOTOR DRIVEN PLUMBING EQUIPMENT UNLESS NOTED OTHERWISE. PROVIDE ISOLATION AS RECOMMENDED BY THE EQUIPMENT MANUFACTURER.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 9.  |
| P.D.I. SIZEAFIXTURE UNITS1-11NOTES:                                                                                                                                                                                                                                                                                                                                                                                        | THE CONTRACTOR SHALL COORDINATE THE LOCATION OF ALL WALL CLEANOUTS, ACCESS<br>DOORS, ETC WITH THE ARCHITECT AND ALL OTHER TRADES PRIOR TO INSTALLATION. IF A<br>CONFLICT WITH MILLWORK, LIGHT SWITCHES, WINDOWS, ETC EXISTS, THE CONTRACTOR<br>SHALL NOTIFY THE ARCHITECT OF THE POTENTIAL INTERFERENCE PRIOR TO INSTALLATION.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 10. |
| 1. ALL WHA'S SHALL HAVE AN A<br>2. SIZE AND LOCATE WATER HA                                                                                                                                                                                                                                                                                                                                                                | PLUMBING VENTS THROUGH THE ROOF SHALL BE A MINIMUM OF 10 FEET FROM ALL OUTSIDE<br>AIR INTAKES AND A MINIMUM OF 5 FEET FROM EXTERIOR PERIMETER WALLS.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 11. |
| BASIS                                                                                                                                                                                                                                                                                                                                                                                                                      | SOME PIPES SHOWN ON EACH FLOOR PLAN MAY BE SHOWN WITH AN OFFSET FOR CLARITY.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 12. |
| PRIMARY CODES:<br>PLUMBING: 2018 INT                                                                                                                                                                                                                                                                                                                                                                                       | PLUMBING FIXTURES AND TRIM OF LIKE KIND SHALL BE OF THE SAME MANUFACTURER<br>THROUGHOUT THE PROJECT. TYPICAL CATEGORIES INCLUDE THE FOLLOWING:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 13. |
| Storm Drain Calcu<br>Rainfall (in/hr)<br>Area of Roof (Sqft)                                                                                                                                                                                                                                                                                                                                                               | <ul> <li>A. WATER CLOSETS, LAVATORIES, URINALS</li> <li>B. ELECTRIC WATER COOLERS, DRINKING FOUNTAINS</li> <li>C. FAUCETS, MIXING VALVES</li> <li>D. TAIL PIECE, FIXTURE TRAPS, ESCUTCHEONS, ARM EXTENSIONS, STRAINERS</li> <li>E. EXTENSION AND ADDRIVES FOR AND ADDRIVES</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |     |
| <b>Gal/min</b><br>Pipe Size                                                                                                                                                                                                                                                                                                                                                                                                | E. FIXTURE CARRIERS, FLOOR DRAINS, FLOOR SINKS, ROOF DRAINS, OVERFLOW DRAINS<br>F. COUNTER TOP SINKS<br>PROVIDE WATER HAMMER ARRESTERS BETWEEN THE NEXT TO LAST AND LAST FIXTURE AT                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 14. |
|                                                                                                                                                                                                                                                                                                                                                                                                                            | EACH BATTERY OF PLUMBING FIXTURES IN ACCORDANCE WITH THE WATER HAMMER<br>ARRESTER SCHEDULE AND THE PLUMBING AND DRAINAGE INSTITUTE STANDARD PDI-WH-201.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |     |
|                                                                                                                                                                                                                                                                                                                                                                                                                            | ALL SANITARY WASTE PIPING WITHIN THE BUILDING ENVELOPE SHALL HAVE MINIMUM<br>SLOPES AS REQUIRED BY THE LOCAL CODE AUTHORITY. CONTRACTOR SHALL VERIFY<br>INVERT ELEVATIONS INDICATED ON FLOOR PLANS PRIOR TO INSTALLATION OF ANY SITE<br>UTILITIES AND CONNECTION INTO EXISTING SERVICES.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 15. |
|                                                                                                                                                                                                                                                                                                                                                                                                                            | COMPLY WITH THE PROVISIONS OF THE AMERICANS WITH DISABILITIES ACT (ADA) AND THE<br>TEXAS ACCESSIBILITY'S STANDARD (TAS). PLUMBING CONTRACTOR SHALL PROVIDE<br>PLUMBING FIXTURES WITH FLUSH VALVE HANDLES LOCATED ON THE WIDE SIDE OF EACH<br>STALL.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 16. |
|                                                                                                                                                                                                                                                                                                                                                                                                                            | SEAL ALL PIPE PENETRATIONS THROUGH FIRE RATED BUILDING ELEMENTS WITH AN APPROVED FIRE PROOFING MATERIAL.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 17. |
|                                                                                                                                                                                                                                                                                                                                                                                                                            | ALL FLOOR DRAIN AND FLOOR SINK TRAPS SHALL USE TRAP PRIMERS.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 18. |
|                                                                                                                                                                                                                                                                                                                                                                                                                            | THE CONTRACTOR SHALL COORDINATE WITH THE LOCAL NATURAL GAS UTILITY COMPANY<br>TO EXTEND NATURAL GAS SERVICE TO LOCATION INDICATED ON THE DRAWINGS. THE<br>CONTRACTOR SHALL PAY ALL FEES AND COSTS ASSOCIATED/REQUIRED BY THE LOCAL GAS<br>UTILITY COMPANY FOR THE EXTENSION OF THE GAS SERVICE. THE CONTRACTOR SHALL<br>PROVIDE ALL PIPING, VALVES, ETC THAT ARE NOT PROVIDED BY THE LOCAL GAS UTILITY<br>COMPANY AND THAT ARE REQUIRED FOR CONNECTION OF THE GAS METER AND<br>REGULATOR(S) FOR A COMPLETE OPERATIONAL SYSTEM. THE CONTRACTOR SHALL VERIFY<br>THE NATURAL GAS PRESSURE PROVIDED BY THE NATURAL GAS UTILITY COMPANY AND<br>PROVIDE ADDITIONAL REGULATORS AS REQUIRED BY THE GAS FIRED EQUIPMENT INSTALLED.                                                                                              | 19. |
|                                                                                                                                                                                                                                                                                                                                                                                                                            | WELDED ALL GAS PIPING. THREADED JOINTS SHALL BE USED ONLY ON VALVES AND<br>REGULATORS.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 20. |
|                                                                                                                                                                                                                                                                                                                                                                                                                            | CONTRACTOR SHALL INSTALL NEW ISOLATION VALVES AT BRANCH CONNECTION TO EACH<br>RESTROOM ON DOMESTIC HOT AND COLD WATER SUPPLY LINES. ACCESS PANELS TO BALL<br>VALVE SHUT OFF SHALL BE INSTALLED AS REQUIRED BY GENERAL NOTE 7.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 21. |

# MBOLS AND ABBREVIATIONS

# ABBREVIATIONS

|        | L         | LENGTH                          |
|--------|-----------|---------------------------------|
| र      | LB        | POUNDS                          |
|        | LRA       | LOCKED ROTOR AMPS               |
|        | MAX       | MAXIMUM                         |
|        | MCA       | MINIMUM CIRCUIT AMPACITY        |
| V      | MIN       | MINIMUM                         |
|        | MSB MOP S | SINK BASIN                      |
|        | N/A       | NOT APPLICABLE                  |
| SIDE   | NFPA      | NATIONAL FIRE PROTECTION        |
|        |           | ASSOCIATION                     |
| २      | NFWH NON  | I-FREEZE WALL HYDRANT           |
|        | N/O,N/C   | NORMALLY OPEN, NORMALLY CLOSED  |
|        | O/C       | ON CENTER                       |
|        | OFD       | ROOF OVERFLOW DRAIN             |
|        | PCO PLUG  | CLEANOUT                        |
|        | PH        | PHASE                           |
| NOUT   | PROVIDE   | FURNISH AND INSTALL             |
|        | PSI       | POUNDS PER SQUARE INCH          |
|        | RD        | ROOF DRAIN                      |
|        | RE:       | REFERENCE, REFER                |
| .ER    | RLA       | RUNNING LOAD AMPS               |
|        | RM        | ROOM                            |
|        | RPBFP RED | DUCED PRESSURE PRINCIPLE        |
|        |           | BACKFLOW PREVENTER              |
|        | RPZ       | REDUCED PRESSURE ZONE           |
|        | S         | SINK                            |
|        | SD        | STORM DRAIN (BELOW FLOOR)       |
|        | ST        | STORM WATER (ABOVE CEILING)     |
|        | SSD       | SUBSURFACE DRAIN                |
|        | THRU      | THROUGH                         |
| IEATER | TP        | TRAP PRIMER                     |
|        | TYP       | TYPICAL                         |
|        | U         | URINAL                          |
|        | UL        | UNDERWRITERS LABORATORIES, INC. |
| URE    | V         | SANITARY VENT                   |
|        | VTR       | SANITARY VENT THRU ROOF         |
|        | W         | SANITARY WASTE (ABOVE FLOOR)    |
|        | WC WATEF  |                                 |
|        | WCO       | WALL CLEANOUT                   |
|        | W/        | WITH                            |
|        | W/O       | WITHOUT                         |
|        |           |                                 |

# NG/DETAIL REFERENCE

ТО NG/DETAIL NUMBER

| TI                                                                      | NUMBER |       |        |         |         |  |
|-------------------------------------------------------------------------|--------|-------|--------|---------|---------|--|
| MMER ARRESTER SCHEDULE                                                  |        |       |        |         |         |  |
|                                                                         | В      | С     | D      | E       | F       |  |
|                                                                         | 12-32  | 33-60 | 61-113 | 114-154 | 155-330 |  |
| CESS PANEL.<br>MER ARRESTERS IN ACCORDANCE WITH PDI PAMPHLET PDI-WH-201 |        |       |        |         |         |  |
| F PLUMBING DESIGN                                                       |        |       |        |         |         |  |

NATIONAL PLUMBING CODE.

| ition     | Storm Drain Calcu | lation (Per Drain) |
|-----------|-------------------|--------------------|
| 6         |                   |                    |
| 860Area   | a of Roof (Sqft)  | 430.00             |
| 53.61Gal/ | min               | 26.80              |
| 8"Pip     | e Size            | 4'                 |
| •         | mber of Drains    | 2                  |

|                   | NOTE: ALL SYMBOLS AND ABBREVIATIONS SHOWN |
|-------------------|-------------------------------------------|
|                   | ARE NOT NECESSARILY USED ON THE DRAWINGS  |
|                   | VALVES AND FITTINGS                       |
| SYMBOL            | DESCRIPTION                               |
|                   | SHUT-OFF / ISOLATION VALVE                |
| <u>`</u>          | BALL VALVE                                |
| <b>#</b>          | BUTTERFLY VALVE                           |
|                   | GLOBE VALVE                               |
| <b>v</b>          | PLUG VALVE / GAS COCK                     |
|                   | CHECK VALVE                               |
|                   | STRAINER                                  |
| ¥                 | CALIBRATED BALANCING VALVE                |
| ®                 | GAS PRESSURE REGULATOR                    |
|                   | FLOW SWITCH                               |
|                   | UNION (DIELECTRIC)                        |
| $\longrightarrow$ | VALVE IN RISER                            |
| +O                | END RISE (90° ELL)                        |
|                   | END DROP (90° ELL)                        |
| +C+               | RISE OR DROP                              |
| +O+               | TEE OUT OF TOP OF PIPE                    |
|                   | TEE OUT OF BOTTOM OF PIPE                 |
| ]                 | CAP ON END OF PIPE                        |
|                   | WALL CLEANOUT                             |
| ——–I PCO          | PLUG CLEANOUT                             |
| - <u>©</u> _ DCO  | TWO WAY CLEANOUT                          |
| — 💿 GCO           | GRADE CLEANOUT                            |
| +Ə+Ç              | NON-FREEZE WALL HYDRANT OR HOSE BIBB      |
| FD                | FLOOR DRAIN                               |
| FCO               | FLOOR CLEANOUT                            |
|                   | SHUT-OFF / ISOLATION VALVE                |

# LINE TYPES

SANITARY SEWER (BELOW FLOOR, BUILDING DRAIN)

GREASY WASTE (ABOVE CEILING) EQUIPMENT DRAIN (ABOVE CEILING) SANITARY VENT DOMESTIC COLD WATER DOMESTIC HOT WATER DOMESTIC HOT WATER CIRCULATION

HOSE BIBB EMERGENCY FLOOR DRAIN FLOOR DRAIN FLOOR SINK FIXTURE THREE COMPARTMENT 3888 CU. IN. X 3 COMPA IN = 11664/231X.75= 38 ( DRAIN DOWN PERIOD = HAND SINK=.5 GALLON PREP SINK=1 GALLON HAND SINK=.5 GALLON MOP SINK=1 GALLON

TOTAL POUNDS OF GI **GREASE INTERCEPTO** PER PDI-G101, SECT AN INTERCEPTOR CONFORMING TO THE ABOVE STANDARD RATINGS, SHALL NOT EXCEED TWO AND ONE-HALF (2-1/2) TIMES THE CERTIFIED GALLONS PER MINUTE FLOW RATING OF THE SUBJECT INTERCEPTOR.

# FIXTURE TYPE

LAVATORY HAND SINK SINK (SERVICE/MOP) SINK (THREE COMP.) PREP SINK

FIXTURE TYPE WATER CLOSET < 1.6 GPF

LAVATORY HAND SINK SINK (SERVICE/MOP) SINK (THREE COMP.) PREP SINK

REVIATIONS SHOWN

+>+× () () ()  $\longrightarrow$ DESCRIPTION SYMBOL —— SW—— — GW — \_\_\_\_D\_\_\_\_

\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_

|                |             |                                       |                                                     |                                          |                                                     |    | RELEASED FOR<br>CONSTRUCTION<br>As Noted on Plans Revigw               |
|----------------|-------------|---------------------------------------|-----------------------------------------------------|------------------------------------------|-----------------------------------------------------|----|------------------------------------------------------------------------|
|                |             |                                       |                                                     |                                          | ]                                                   |    | Development Services Department<br>Lee's Summit, Missour<br>07/03/2024 |
|                | WATER       | CALCULA                               | TIONS                                               |                                          |                                                     |    |                                                                        |
| SANITARY SE    | WER AND WAT | ER SERVICE I                          | PLUMBING CA                                         |                                          | NS                                                  |    |                                                                        |
| YPE            | QUANTITY    | WASTE<br>FIXTURE UNITS<br>PER FIXTURE | TOTAL WASTE<br>FIXTURE UNITS<br>FOR FIXTURE<br>TYPE | WATER<br>FIXTURE<br>UNITS PER<br>FIXTURE | TOTAL WATER<br>FIXTURE UNITS<br>FOR FIXTURE<br>TYPE | SA |                                                                        |
| OSET < 1.6 GPF | 1           | 4                                     | 4                                                   | 5                                        | 5                                                   | •  |                                                                        |
|                | 1           | 1                                     | 1                                                   | 2                                        | 2                                                   |    |                                                                        |
|                | 2           | 2                                     | 4                                                   | 3                                        | 6                                                   |    |                                                                        |
| /ICE/MOP)      | 1           | 2                                     | 2                                                   | 3                                        | 3                                                   |    |                                                                        |
| E COMP.)       | 1           | 0                                     | 0                                                   | 3                                        | 3                                                   |    |                                                                        |
|                | 1           | 0.5                                   | 0.5                                                 | 3                                        | 3                                                   |    |                                                                        |
|                | 2           | 0                                     | 0                                                   | 2                                        | 1                                                   |    |                                                                        |

|    |                                              |                       |                     |                  | 1   |  |
|----|----------------------------------------------|-----------------------|---------------------|------------------|-----|--|
|    | 1                                            | 0                     | 0                   | 3                | 3   |  |
|    | 1                                            | 0.5                   | 0.5                 | 3                | 3   |  |
|    | 2                                            | 0                     | 0                   | 2                | 4   |  |
| IN | 1                                            | 0                     | 0                   | 0                | 0   |  |
|    | 2                                            | 2                     | 6                   | 0                | 0   |  |
|    | 5                                            | 5                     | 20                  | 0                | 0   |  |
|    | TOTAL I                                      | <b>FIXTURE UNITS:</b> | 37.5                |                  | 26  |  |
|    | SER                                          | VICE PIPE SIZE:       | 4"                  |                  | 1"  |  |
|    | DISTAN                                       | CE FROM METER T       | O MOST REMOTE F     | IXTURE (FEET):   | 50  |  |
|    | EQUI                                         | ALENT LENGTH O        | F PIPING = DISTAN   | CE x 1.5 (FEET): | 75  |  |
|    | WATER PIPE CA                                | LCULATION: IPC        | APPENDIX E          |                  |     |  |
|    | TOTAL WATER SERVICE DEMAND (FLOW): 18        |                       |                     |                  |     |  |
|    | 75                                           | FEET                  |                     |                  |     |  |
|    |                                              | MINIMUM PRES          | SSURE AT METER:     | 60.0             | PSI |  |
|    |                                              | PRESSURE LOSS 1       | THROUGH METER:      | 3.0              | PSI |  |
| PR | ESSURE LOSS THROUG                           | GH BACKFLOW PRE       | VENTION DEVICE:     | 10.0             | PSI |  |
|    | HEAD                                         | LOSS (HEAD IN FE      | ET x 0.433 PSI/FT): | 4.3              | PSI |  |
|    | PRESSURE LOSS THROUGH WATER HEATER: 0.0      |                       |                     |                  |     |  |
|    | PRESSURE LOSS THROUGH SPECIAL EQUIPMENT: 0.0 |                       |                     |                  |     |  |
|    | PSI                                          |                       |                     |                  |     |  |
|    | 37.3                                         | PSI                   |                     |                  |     |  |
|    | TOTAL PRESSU                                 | 22.7                  | PSI                 |                  |     |  |
|    | ALLOWABLE FR                                 | 30.2                  | PSI                 |                  |     |  |
|    | GREASE INT                                   | ERCEPTOR CAL          | CULATION            |                  |     |  |
|    |                                              |                       |                     |                  |     |  |

| PROJECT:                                                                                                     | SALAD AND GO |               |
|--------------------------------------------------------------------------------------------------------------|--------------|---------------|
|                                                                                                              | GPM          | LBS OF GREASE |
| NT SINK COMPARTMENT=18"X18"X12" =<br>PARTMENTS = 11664 CU. IN. TOTAL CU<br>8 GALLONS. 38 GALLONS AT 2 MINUTE |              |               |
| D = 38/2 = 19 GPM.                                                                                           | 19           | 38            |
| DNS                                                                                                          | 0.5          | 1             |
| N                                                                                                            | 1            | 2             |
| DNS                                                                                                          | 0.5          | 1             |
| l                                                                                                            | 1            | 2             |
|                                                                                                              |              |               |
| GREASE                                                                                                       | 21           | 44            |
| OR (GB-75)                                                                                                   | 75           | 861           |

| THEC | THE CERTIFIED GALLONS PER MINUTE FLOW RATING OF THE SUBJECT INTERCEPTOR. |                                           |                                  |                                 |                              |  |  |  |
|------|--------------------------------------------------------------------------|-------------------------------------------|----------------------------------|---------------------------------|------------------------------|--|--|--|
|      | HOT WATER CALCULATIONS                                                   |                                           |                                  |                                 |                              |  |  |  |
|      | QUANTITY                                                                 | HOT WATER<br>FIXTURE UNITS PER<br>FIXTURE | TOTAL HOT WATER<br>FIXTURE UNITS | GALLONS PER HOUR<br>PER FIXTURE | TOTAL<br>GALLONS PER<br>HOUR |  |  |  |
|      | 1                                                                        | 1.5                                       | 1.5                              | 5                               | 5                            |  |  |  |
|      | 2                                                                        | 2.25                                      | 4.5                              | 5                               | 10                           |  |  |  |
| )    | 1                                                                        | 2.25                                      | 2.25                             | 10                              | 10                           |  |  |  |
| )    | 1                                                                        | 2.25                                      | 2.25                             | 25                              | 25                           |  |  |  |
|      | 1                                                                        | 2.25                                      | 2.25                             | 5                               | 5                            |  |  |  |
|      | TOTAL HFU: 12.75 TOTAL GPH: 55                                           |                                           |                                  |                                 |                              |  |  |  |

| TOTAL HOT WATER DEMAND (FLOW):  | 55   | GPH |
|---------------------------------|------|-----|
| DEMAND FACTOR:                  | 0.8  |     |
| ACTUAL HOT WATER DEMAND (FLOW): | 44.0 | GPH |
| WATER HEATER RECOVERY RATE:     | 46.0 | GPH |
|                                 |      |     |

|                                                                                                                                                                                        |                                                                                               | 610 NW C                                                           | LEE'S SUMMIT, N                                                            | PROTO                                                |  |  |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------|--------------------------------------------------------------------|----------------------------------------------------------------------------|------------------------------------------------------|--|--|
| SEAL                                                                                                                                                                                   |                                                                                               |                                                                    | ING C                                                                      | GROUP                                                |  |  |
|                                                                                                                                                                                        | OFFE SC                                                                                       | OF MIS<br>CLAYTO<br>LUCAS<br>NUMBEI<br>-2024000<br>NAL<br>05/30/20 | * 21<br>504<br>504<br>504<br>505<br>505<br>505<br>505<br>505<br>505<br>505 |                                                      |  |  |
| CO<br>JO                                                                                                                                                                               | CONTRACT<br>NDITIONS A<br>B SITE AND<br>OF ANY DI<br>SSIONS OR<br>INNING OR<br>DO NOT<br>DATE | AND DIMI<br>NOTIFY<br>MENSION<br>DISCRE<br>FABRIC/                 | ENSION<br>THE AR<br>NAL ERF<br>PANCIE<br>ATING A<br>DRAWIN                 | S AT THE<br>CHITECT<br>CORS,<br>S BEFORE<br>NY WORK. |  |  |
|                                                                                                                                                                                        |                                                                                               |                                                                    |                                                                            |                                                      |  |  |
| PROJECT INFORMATION         PROJECT NO:         24-0087         ORIGINAL ISSUE:       09/06/2022         SCALE:       AS NOTED         DRAWN BY:       JB         CHECKED BY:       CL |                                                                                               |                                                                    |                                                                            |                                                      |  |  |
| SHEET TITLE<br>PLUMBING LEGENDS<br>AND NOTES                                                                                                                                           |                                                                                               |                                                                    |                                                                            |                                                      |  |  |

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OSED

MO 64086 PROP

PROTOTYPE VERSION V2-B

AD

CHIPMAN RO

SHEET NUMBER

P101

# PLUMBING FIXTURE SCHEDULE

| MARK                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                   |             |                             |                                  |                            |                                                                                 |
|------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------|-------------|-----------------------------|----------------------------------|----------------------------|---------------------------------------------------------------------------------|
|                        | DESCRIPTION                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                   | OUGH        | · · · ·                     |                                  |                            | MANUFACTUF                                                                      |
| WC-1                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | W                 | V           | CW                          | HW                               | E                          |                                                                                 |
|                        | WATERCLOSET, 1.1 GPF, HIGH PERFORMANCE FLUSHOMETER TANK, ELONGATED BOWL, 3" FLUSH<br>VALVE WITHIN TANK, CLOSE-COUPLED TANK, VITREOUS CHINA, WHITE, 2 1/8" FULLY GLAZED TRAPWAY,<br>12" ROUGH-IN, ASME A112.19.2M (& 19.6M).                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 4"                | 2"          | -                           | -                                | -                          | AMERICAN ST                                                                     |
| -                      | SUPPLY AND STOP, LOOSE KEY, CHROME PLATED BRASS VALVE AND CHROME PLATED COPPER RISER<br>SEAT, EXTRA HEAVY WEIGHT, POSTURE MOLDED SOLID PLASTIC, ELONGATED, OPEN FRONT, LESS COVER,<br>EXTERNAL CHECK HINGES, STAINLESS STEEL HINGE POSTS, WHITE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | -                 | -           | 1/2"<br>-                   | -                                | -                          | MCGUIRE; T&<br>CHURCH; BEN                                                      |
| .V-1                   | LAVATORY, 20"X18" VITREOUS CHINA WALL MOUNT, SINGLE CENTER FAUCET HOLE, FRONT OVERFLOW,<br>CONCEALED ARM CARRIER SYSTEM, DECK MOUNTED FAUCET, INTEGRAL 4" BACKSPLASH, ANSI A112.19.2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 2"                | 1 1/2"      | -                           | -                                | -                          | AMERICAN ST                                                                     |
| -                      | TOUCHLESS METERING FAUCET, DECK MOUNT, SINGLE CENTER HOLE, POLISHED CHROME FINISH,<br>BATTERY-POWERED, 0.35 GPM MAX                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | -                 | -           | 1/2"                        | 1/2"                             | -                          | AMERICAN ST                                                                     |
| -                      | SUPPLY AND STOPS, LOOSE KEY, CHROME PLATED BRASS VALVES, BRAIDED HOSE CONNECTIONS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | -                 | -           | -                           | -                                | -                          | MCGUIRE; T&                                                                     |
| -                      | P-TRAP, CHROME PLATED CAST BRASS BODY WITH CLEANOUT, SEAMLESS WALL BEND, 17 GA.<br>OFFSET TAILPIECE AND STRAINER, CHROME PLATED CAST BRASS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | -                 | -           | -                           | -                                | -                          | MCGUIRE; T&<br>MCGUIRE; T&                                                      |
| -                      | FIXTURE CARRIER, CONCEALED ARMS, LEVELING AND SECURING SCREWS, UPRIGHTS, WELDED FEET<br>THERMOSTATIC MIXING VALVE, 0.25 GPM MINIMUM FLOW, INTEGRAL INLET CHECK VALVES AND STRAINER,                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | -                 | -           | -<br>1/2"                   | -<br>1/2"                        | -                          | JOSAM; WATT<br>WATTS; LEON                                                      |
| -1                     | SET TEMPERATURE TO 105°, ASSE 1070.<br>NARROW WALL HYDRANT, ENCASED, ANTI-SIPHON WITH EXTERNAL VACUUM BREAKER, 3/4" MALE N.H.T<br>OUTLET, CHROME PLATED CAST BRONZE WALL BOX WITH HINGED COVER.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | -                 | -           | 3/4"                        | -                                | -                          | ZURN Z1350                                                                      |
| -1                     | FLOOR DRAIN, CAST IRON BODY, ANCHOR FLANGE, WEEPHOLES FOR DOUBLE DRAINAGE, 6" SQUARE<br>STAINLESS STEEL FLAT STRAINER. ADJUSTABLE DRAIN HEAD W/ MACHINED INTEGRAL BODY THREADS,                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | -                 | -           | 1/2"                        | -                                | -                          | ZURN Z-415-S                                                                    |
| 6-1                    | ASME A112.21.1<br>FLOOR SINK, 12"x12"x8", CI BODY, DBL DRAINAGE FLANGE, STAINLESS STEEL DOME STRAINER, 1/2 GRATE,                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | -                 | -           | 1/2"                        | -                                | -                          | ZURN Z-1901                                                                     |
| S-1                    | NON-PUNCTURING FLASHING COLLAR, PORCELAIN ENAMEL OR EPOXY COATED INTERIOR<br>MOP SINK BASIN, ONE PIECE-MOLDED STONE 36"x24"x10", COLORFAST MARBLEIZED WHITE FINISH,<br>SELF-DRAINING SHELF WITH REMOVABLE STRAINER, MOLDED-IN DRAIN, STAINLESS STEEL WALL GUARDS,<br>STAINLESS STEEL BUMPER GUARDS, HOSE AND HOSE HOLDER, MOP HANGER, DRAIN SEAL                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 3"                | 2"          | -                           | -                                | -                          | MUSTEE - 65N                                                                    |
| -                      | FAUCET, HEAVY-DUTY, CHROME PLATED BRASS, DUAL HANDLE, TOP REINFORCING BAR, PAIL HOOK                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | -                 | -           | 3/4"                        | 3/4"                             | -                          | MUSTEE - 63.6                                                                   |
| CO<br>CO               | WALL CLEANOUT, CI BODY, RECESSED, THREADED BRASS PLUG, STAINLESS STEEL ACCESS COVER<br>FLOOR CLEANOUT, COATED CAST IRON BODY, COMBINATION ADJUSTABLE ROUND STAINLESS STEEL<br>COVER AND PLUG TOP ASSEMBLY, GASKET SEAL, ASME 112.36.2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | -                 | -           | -                           | -                                | -                          | ZURN Z-1441<br>ZURN Z-1400                                                      |
| 0                      | GRADE CLEANOUT, HEAVY DUTY COATED CAST IRON ACCESS BODY WITH ANCHOR FLANGES, HEAVY DUTY DUCTILE IRON ACCESS COVER WITH VANDAL RESISTANT STAINLESS STEEL SCREWS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | -                 | -           | -                           | -                                | -                          | ZURN Z-1474-                                                                    |
| 0                      | 2-WAY GRADE CLEANOUT, TWO-RISER CLEANOUT BODY WITH HEAVY DUTY COATED CAST IRON ACCESS<br>BODY WITH ANCHOR FLANGES, HEAVY DUTY DUCTILE IRON ACCESS COVER WITH VANDAL RESISTANT<br>STAINLESS STEEL SCREWS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | -                 | -           | -                           | -                                | -                          | ZURN Z-1474-                                                                    |
| Ρ                      | TRAP PRIMER, DIAPHRAGM OPERATED BASED ON PRESSURE SPIKES OR PRESSURE DROPS, OPERATING<br>RANGE BETWEEN 30 TO 70 PSIG. PROVIDE WITH DISTRIBUTION UNIT SERVING MULTIPLE DRAINS (UP TO 4).<br>PROVIDE ACCESS PANEL FOR TRAP PRIMER MAINTENANCE.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | -                 | -           | 1/2"                        | -                                | -                          | MIFAB, MI-500                                                                   |
| P-1                    | 1" DUAL CHECK VALVE ASSEMBLY, BRONZE VALVE BODY, STAINLESS STEEL SPRINGS, LED FREE, NSF<br>COMPLIANT, ASME B1.20.1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | -                 | -           | 1"                          | -                                | -                          | WATTS - LF85                                                                    |
| H-1                    | ELECTRIC, TANK TYPE WATER HEATER, 50-GALLON, 208V, 1-PH, (2) 4500W SIMULTANEOUS<br>HEATING ELEMENTS, 46-GPH RECOVERY RATE AT 80-DEG F TEMPERATURE RISE, SET TO 140-DEG F                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | -                 | -           | 3/4"                        | 3/4"                             | YES                        | A.O. SMITH DE                                                                   |
| -1                     | VARIABLE SPEED DOMESTIC HOT WATER RE-CIRCULATION PUMP, 120V/1-PH, 5-GPM AT 8-FEET OF HEAD,<br>AQUA-STAT, TIME CLOCK SET TO BUSINESS HOURS<br>HYDROMECHANICAL GREASE TRAP, MOLDED POLYETHYLENE, 861 LB GREASE CAPACITY AT 75-GPM FLOW                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | - 4"              | -           | -                           | 3/4"                             | YES                        | GRUNDFOS -                                                                      |
| V-1                    | RATE, INTEGRAL AIR RELIEF AND ANTI-SIPHON, H-20 RATED CAST IRON COVER, ASME A112.14.3 (TYPE D), ACCESS RESISTOR<br>SAMPLING PORT, MOLDED POLYETHYLENE, H-20 CAST IRON COVER, WATER/GAS TIGHT SEAL, ACCESS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                   |             |                             |                                  |                            |                                                                                 |
| V-1                    | RESTRICTOR                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 4"                | -           | -                           | -                                | -                          | SCHEIR - SV2                                                                    |
| -1                     | ONE COMPARTMENT SINK, 18"x18"x13" BOWL, STAINLESS STEEL LEGS WITH CROSS BRACING, EXTRA WELDS UNDER TUBS, STAINLESS STEEL STRAINER                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 2"                | 1 1/2"      | -                           | -                                | -                          | GSW - SE1818                                                                    |
|                        | DECK MOUNT FAUCET, 8" COMMERCIAL DUTY,10-INCH SWING SPOUT, CHROME PLATED BRASS,<br>SUPPLY AND STOPS, LOOSE KEY, CHROME PLATED BRASS VALVES, BRAIDED HOSE CONNECTIONS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | -                 | -           | 1/2"<br>-                   | 1/2<br>-                         | -                          | GSW - AA-710<br>MCGUIRE; T&                                                     |
| 1                      | 1-1/2" COPPER TUBE TO INDIRECTLY DISCHARGE INTO FLOOR SINK BELOW<br>HAND SINK, WALL MOUNTED, STAINLESS STEEL, 12-1/2" x 9-3/4"x 5-5/8" BOWL, WELDED SPLASH GUARDS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 1-1/2"<br>2"      | -<br>1 1/2" | -                           | -                                | -                          | -<br>GSW - HS-161                                                               |
|                        | FAUCET, 4" WRISTBLADE HANDLES, GOOSE NECK SPOUT, CHROME PLATED BRASS, BACKSPLASH<br>MOUNTED                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | -                 | -           | -<br>1/2"                   | 1/2                              | -                          |                                                                                 |
| -                      | SUPPLY AND STOPS, LOOSE KEY, CHROME PLATED BRASS VALVES, BRAIDED HOSE CONNECTIONS<br>P-TRAP, CHROME PLATED CAST BRASS BODY WITH CLEANOUT, SEAMLESS WALL BEND, 17 GA.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | -                 | -           | -                           | -                                | -                          | MCGUIRE; T&<br>MCGUIRE; T&                                                      |
| -                      | OFFSET TAILPIECE AND STRAINER, CHROME PLATED CAST BRASS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | -                 | -           | -                           | -                                | -                          | MCGUIRE; T&                                                                     |
|                        | FIXTURE CARRIER, CONCEALED ARMS, LEVELING AND SECURING SCREWS, UPRIGHTS, WELDED FEET                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | -                 | -           | -                           | -                                | -                          | JOSAM; WATT                                                                     |
|                        | THERMOSTATIC MIXING VALVE, 0.25 GPM MINIMUM FLOW, INTEGRAL INLET CHECK VALVES AND STRAINER, SET TEMPERATURE TO 105°, ASSE 1070.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | -                 | -           | 1/2"                        | 1/2"                             | -                          | WATTS; LEON                                                                     |
| MP                     | 3-COMPARTMENT SCULLERY SINK WITH TWO DRAINBOARDS, THREE-18"x18"x12" BOWLS, 24"<br>DRAINBOARDS, ONE-PIECE DIE FORMED, INTEGRAL 9" HIGH REAR BACK SPLASH, 2"-180° ROLLED EDGES<br>AT FRONT AND ENDS, WELDED CORNERS/EXPOSED CORNERS GROUND AND POLISHED TO BLEND WITH                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 2"                | -           | -                           | -                                | -                          | GSW - SE1818                                                                    |
|                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                   |             |                             |                                  |                            |                                                                                 |
|                        | ADJACENT SURFACES, STAINLESS STEEL LEGS WITH ADJUSTABLE BULLET FEET.<br>PULL-DOWN PRE-RINSE UNIT: 8" WALL MOUNT MIXING FAUCET, QUARTER-TURN CERAMA CARTRIDGES W/                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | -                 | -           | 1/2"                        | 1/2"                             | -                          | T&S BRASS -                                                                     |
|                        | ADJACENT SURFACES, STAINLESS STEEL LEGS WITH ADJUSTABLE BULLET FEET.<br>PULL-DOWN PRE-RINSE UNIT: 8" WALL MOUNT MIXING FAUCET, QUARTER-TURN CERAMA CARTRIDGES W/<br>CHECK VALVES, LEVER HANDLES, ADD-ON FAUCET W/ 12-INCH SWING NOZZLE, ACCESSORY TEE, 12"<br>RISER, 30" FLEXIBLE STAINLESS STEEL HOSE, 1.07 GPM SPRAYER, 6-INCH WALL BRACKET                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | -                 | -           | 1/2"                        | 1/2                              | -                          | UNIVERSAL S                                                                     |
|                        | ADJACENT SURFACES, STAINLESS STEEL LEGS WITH ADJUSTABLE BULLET FEET.<br>PULL-DOWN PRE-RINSE UNIT: 8" WALL MOUNT MIXING FAUCET, QUARTER-TURN CERAMA CARTRIDGES W/<br>CHECK VALVES, LEVER HANDLES, ADD-ON FAUCET W/ 12-INCH SWING NOZZLE, ACCESSORY TEE, 12"<br>RISER, 30" FLEXIBLE STAINLESS STEEL HOSE, 1.07 GPM SPRAYER, 6-INCH WALL BRACKET<br>SUPPLY AND STOP, LOOSE KEY, CHROME PLATED BRASS VALVES AND BRAIDED HOSE CONNECTIONS<br>TWIST HANDLE LEVER DRAINS                                                                                                                                                                                                                                                                                                                                                             | -                 | -           |                             | 1/2<br>1/2<br>-                  | -<br>-<br>-                | UNIVERSAL S<br>MCGUIRE, H2<br>GSW - AA-303                                      |
|                        | ADJACENT SURFACES, STAINLESS STEEL LEGS WITH ADJUSTABLE BULLET FEET.<br>PULL-DOWN PRE-RINSE UNIT: 8" WALL MOUNT MIXING FAUCET, QUARTER-TURN CERAMA CARTRIDGES W/<br>CHECK VALVES, LEVER HANDLES, ADD-ON FAUCET W/ 12-INCH SWING NOZZLE, ACCESSORY TEE, 12"<br>RISER, 30" FLEXIBLE STAINLESS STEEL HOSE, 1.07 GPM SPRAYER, 6-INCH WALL BRACKET<br>SUPPLY AND STOP, LOOSE KEY, CHROME PLATED BRASS VALVES AND BRAIDED HOSE CONNECTIONS<br>TWIST HANDLE LEVER DRAINS<br>MANIFOLD FOR INDIRECT DRAIN, CHROME PLATED CAST BRASS, OUTLET TEE TAILPIECE                                                                                                                                                                                                                                                                              | -                 |             | 1/2"                        | 1/2<br>1/2                       | -<br>-<br>-<br>-           | UNIVERSAL S<br>MCGUIRE, H2                                                      |
| 1                      | ADJACENT SURFACES, STAINLESS STEEL LEGS WITH ADJUSTABLE BULLET FEET.<br>PULL-DOWN PRE-RINSE UNIT: 8" WALL MOUNT MIXING FAUCET, QUARTER-TURN CERAMA CARTRIDGES W/<br>CHECK VALVES, LEVER HANDLES, ADD-ON FAUCET W/ 12-INCH SWING NOZZLE, ACCESSORY TEE, 12"<br>RISER, 30" FLEXIBLE STAINLESS STEEL HOSE, 1.07 GPM SPRAYER, 6-INCH WALL BRACKET<br>SUPPLY AND STOP, LOOSE KEY, CHROME PLATED BRASS VALVES AND BRAIDED HOSE CONNECTIONS<br>TWIST HANDLE LEVER DRAINS<br>MANIFOLD FOR INDIRECT DRAIN, CHROME PLATED CAST BRASS, OUTLET TEE TAILPIECE<br>2" COPPER TUBE TO INDIRECTLY DISCHARGE INTO FLOOR SINK BELOW<br>WALL MOUNTED POT FILLER FAUCET, 24" DOUBLE JOINT SWING NOZZLE, CHROME PLATED BRASS, ASME                                                                                                                  | -                 | -           | 1/2"                        | 1/2<br>1/2<br>-<br>-             | -<br>-<br>-<br>-<br>-      | UNIVERSAL S<br>MCGUIRE, H2<br>GSW - AA-303                                      |
| -1<br><br><br><br><br> | ADJACENT SURFACES, STAINLESS STEEL LEGS WITH ADJUSTABLE BULLET FEET.<br>PULL-DOWN PRE-RINSE UNIT: 8" WALL MOUNT MIXING FAUCET, QUARTER-TURN CERAMA CARTRIDGES W/<br>CHECK VALVES, LEVER HANDLES, ADD-ON FAUCET W/ 12-INCH SWING NOZZLE, ACCESSORY TEE, 12"<br>RISER, 30" FLEXIBLE STAINLESS STEEL HOSE, 1.07 GPM SPRAYER, 6-INCH WALL BRACKET<br>SUPPLY AND STOP, LOOSE KEY, CHROME PLATED BRASS VALVES AND BRAIDED HOSE CONNECTIONS<br>TWIST HANDLE LEVER DRAINS<br>MANIFOLD FOR INDIRECT DRAIN, CHROME PLATED CAST BRASS, OUTLET TEE TAILPIECE<br>2" COPPER TUBE TO INDIRECTLY DISCHARGE INTO FLOOR SINK BELOW<br>WALL MOUNTED POT FILLER FAUCET, 24" DOUBLE JOINT SWING NOZZLE, CHROME PLATED BRASS, ASME<br>A112.18.1, NSF 61<br>ROOF DRAIN, LARGE SUMP, CAST IRON BODY, 12"DIA. CAST IRON OR DUCTILE IRON DOME STRAINER, | -<br>-<br>-<br>2" | -           | 1/2"<br>1/2"<br>-<br>-<br>- | 1/2<br>1/2<br>-<br>-<br>-        | -<br>-<br>-<br>-<br>-<br>- | UNIVERSAL S<br>MCGUIRE, H2<br>GSW - AA-303<br>MCGUIRE; OR<br>-                  |
| -1<br>F-1<br>RD<br>FD  | ADJACENT SURFACES, STAINLESS STEEL LEGS WITH ADJUSTABLE BULLET FEET.<br>PULL-DOWN PRE-RINSE UNIT: 8" WALL MOUNT MIXING FAUCET, QUARTER-TURN CERAMA CARTRIDGES W/<br>CHECK VALVES, LEVER HANDLES, ADD-ON FAUCET W/ 12-INCH SWING NOZZLE, ACCESSORY TEE, 12"<br>RISER, 30" FLEXIBLE STAINLESS STEEL HOSE, 1.07 GPM SPRAYER, 6-INCH WALL BRACKET<br>SUPPLY AND STOP, LOOSE KEY, CHROME PLATED BRASS VALVES AND BRAIDED HOSE CONNECTIONS<br>TWIST HANDLE LEVER DRAINS<br>MANIFOLD FOR INDIRECT DRAIN, CHROME PLATED CAST BRASS, OUTLET TEE TAILPIECE<br>2" COPPER TUBE TO INDIRECTLY DISCHARGE INTO FLOOR SINK BELOW<br>WALL MOUNTED POT FILLER FAUCET, 24" DOUBLE JOINT SWING NOZZLE, CHROME PLATED BRASS, ASME<br>A112.18.1, NSF 61                                                                                             | -<br>-<br>2"<br>- | -           | 1/2"<br>1/2"<br>-<br>-<br>- | 1/2<br>1/2<br>-<br>-<br>-<br>1/2 | -<br>-<br>-<br>-<br>-<br>- | UNIVERSAL S<br>MCGUIRE, H2<br>GSW - AA-303<br>MCGUIRE; OR<br>-<br>T&S BRASS - 1 |

 
 ROUGH IN (MINIMUM)
 MANUFACTURER AND MODEL NUMBER

 W
 V
 CW
 HW
 E
 ADA G 4" 2" - - AMERICAN STANDARD, 2467.100 
 1/2"
 MCGUIRE; T&S BRASS; OR BRASSCRAFT

 CHURCH; BEMIS
 2" 1 1/2" - - - AMERICAN STANDARD, 0356.041 - - 1/2" 1/2" - AMERICAN STANDARD; SELECTRONIC 
 MCGUIRE; T&S BRASS; OR BRASSCRAFT

 JOSAM; WATTS; ZURN; OR JR SMITH
 - - 1/2" 1/2" - WATTS; LEONARD - - 3/4" - - ZURN Z1350 - - 1/2" - - ZURN Z-415-S6 - - 1/2" - - ZURN Z-1901 3" 2" - - - MUSTEE - 65M - - 3/4" 3/4" - MUSTEE - 63.600A - - - - - ZURN Z-1441 - - - - - ZURN Z-1400 - - - ZURN Z-1474-SG-VP - - - - ZURN Z-1474-SG-VP - - 1/2" - - MIFAB, MI-500; PPP CPO-500 OR EQUAL - - 1" - - WATTS - LF850 \_\_\_\_\_ - | - | 3/4" | 3/4" | YES | A.O. SMITH DEL-50 - - - 3/4" YES GRUNDFOS - UP \_\_\_\_\_ 4" - - - - SCHIER - GB-75 4" - - - - SCHEIR - SV24 2" 1 1/2" - - - GSW - SE18181P - - 1/2" 1/2 - GSW - AA-710G 
 MCGUIRE; T&S BRASS; OR BRASSCRAFT

 1-1/2"

 2"
 1 1/2"

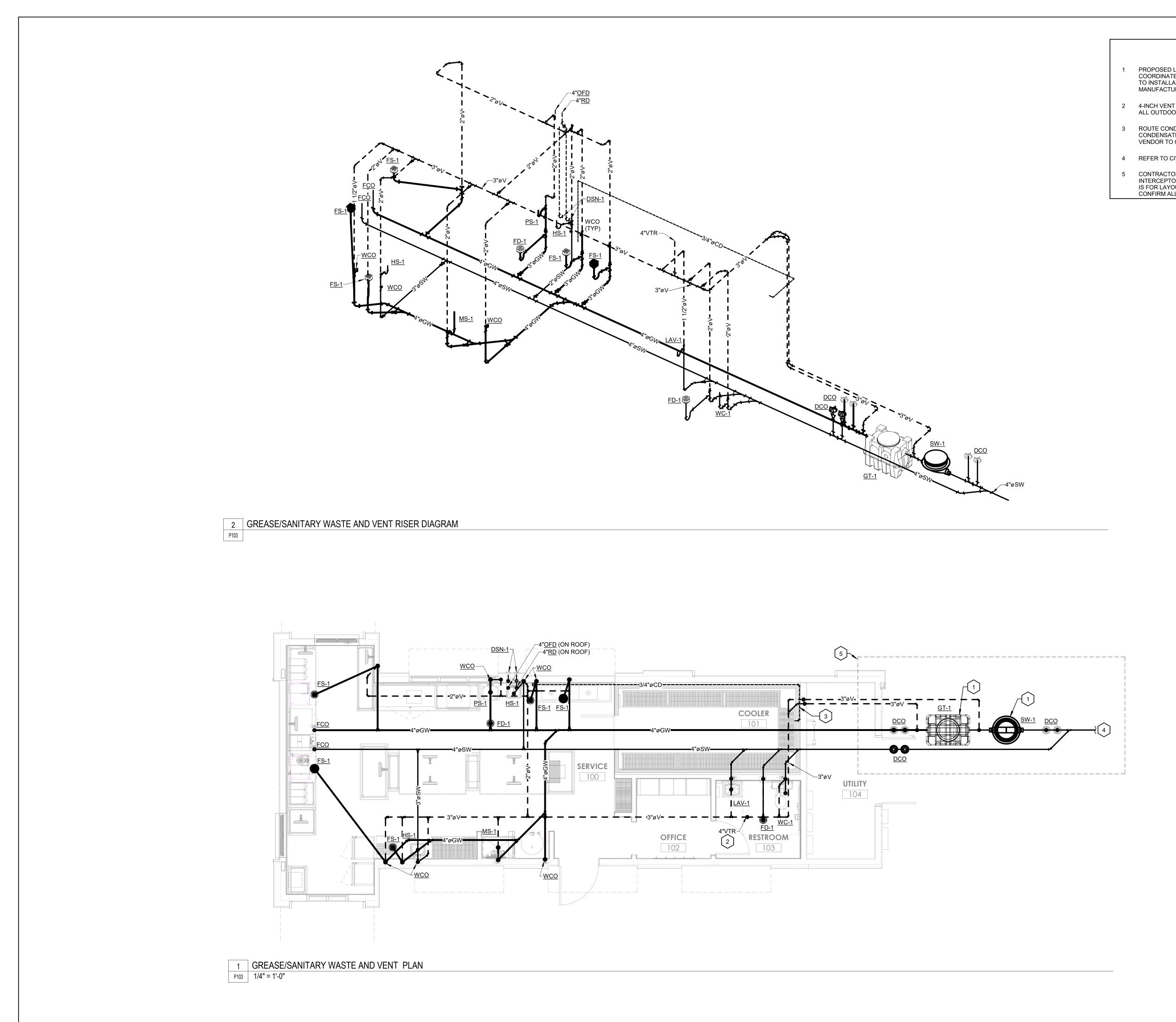
 GSW - HS-1615SSG
 - - 1/2" 1/2 - 
 MCGUIRE; T&S BRASS; OR BRASSCRAFT

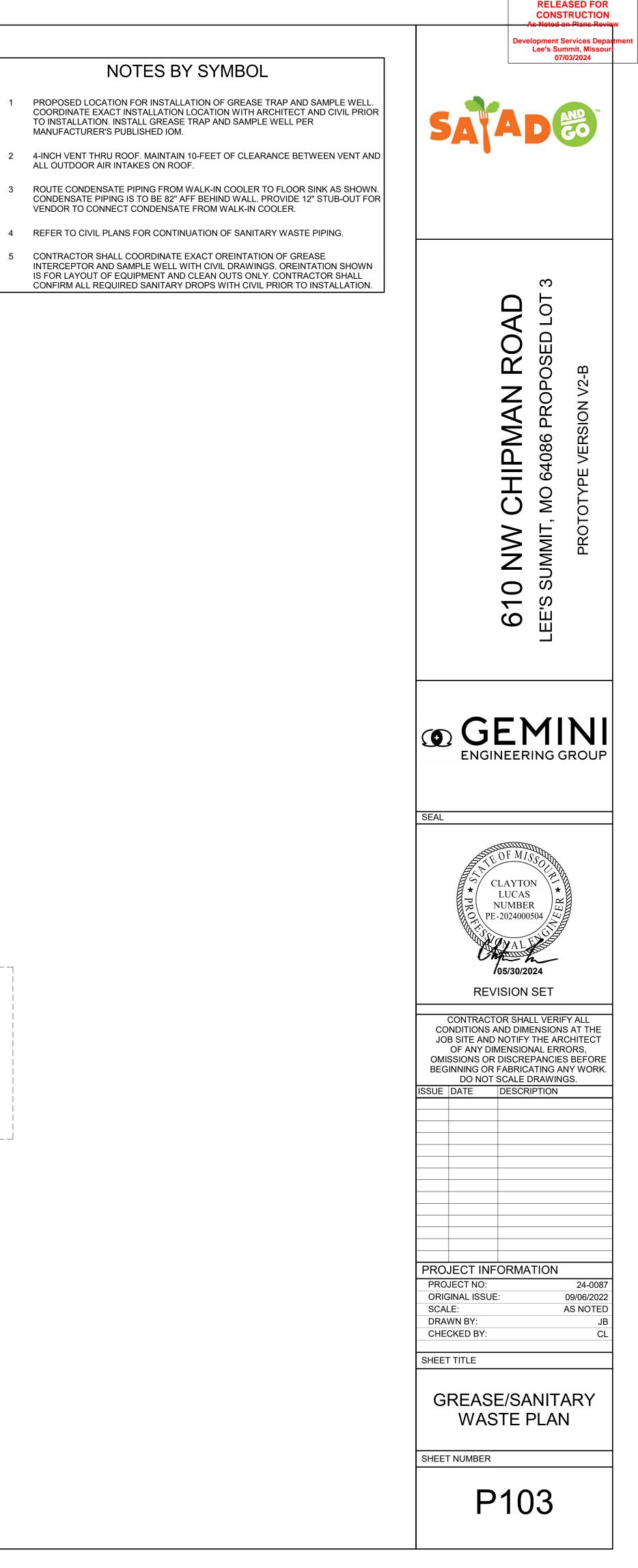
 MCGUIRE; T&S BRASS; OR BRASSCRAFT
 - - - - - - MCGUIRE: T&S BRASS: OR BRASSCRAFT - - - - JOSAM; WATTS; ZURN; OR JR SMITH 1/2" 1/2" - WATTS; LEONARD GSW - SE18183D - - - -1/2" 1/2" - T&S BRASS - B-0133-12CRB8TP - - 1/2" 1/2 - UNIVERSAL STAINLESS, MODEL USF-10-S; T&S BRASS, B-2481-WH4 - - 1/2" 1/2 - MCGUIRE, H2167CCLK; OR EQUAL IN T&S BRASS OR BRASSCRAFT - - - - -GSW - AA-303 - - - - MC 2" - - - - -MCGUIRE; OR EQUAL IN T&S BRASS OR BRASSCRAFT - - 1/2" 1/2 - T&S BRASS - B-0594 ZURN, ZC-100-G - | - | - | -- - - - -ZURN ZC-100-G-W2 - - - - - ZURN Z-199 IECESSARY FOR A COMPLETE INSTALLATION OF ALL FIXTURES.

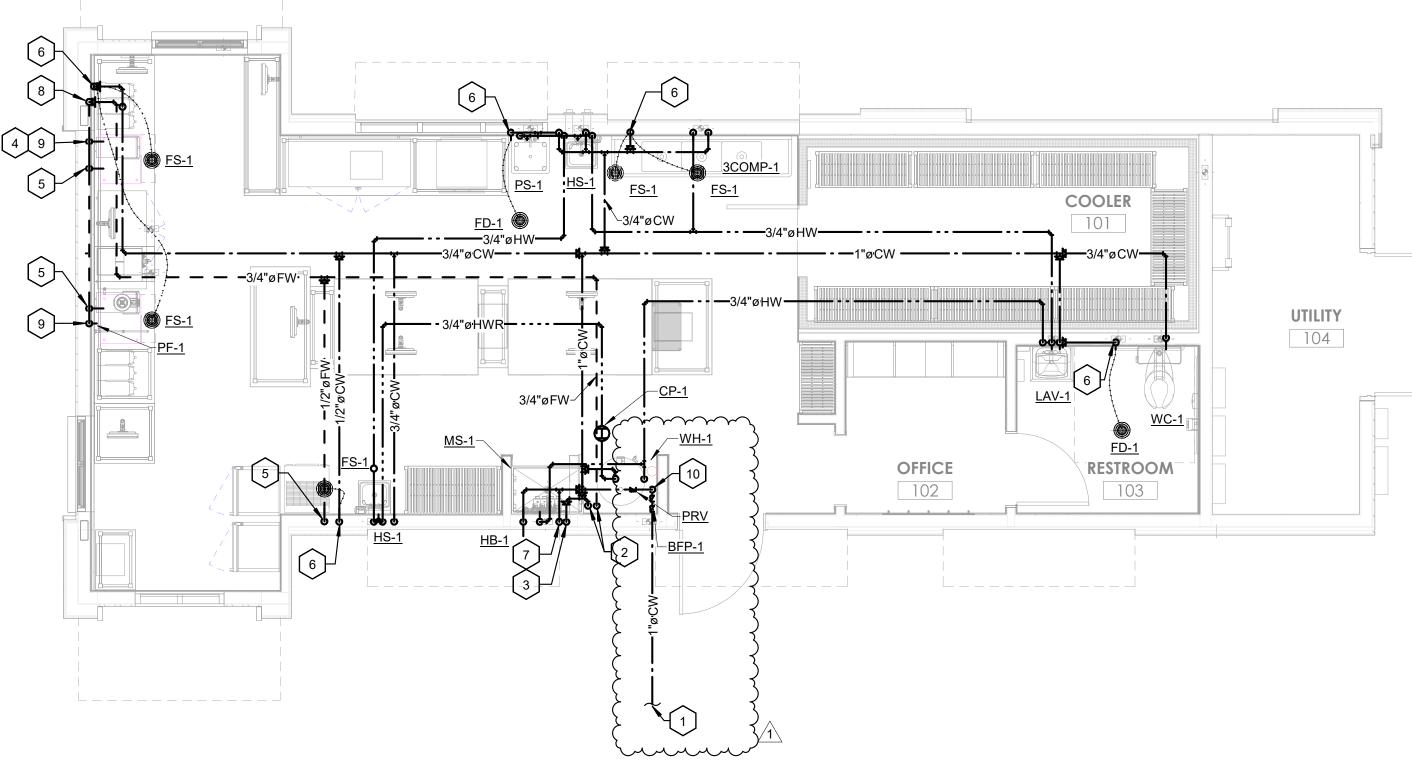
VE PIPE COVERS WHERE NOT CONCEALED BY MILLWORK. TY'S STANDARD (TAS). PLUMBING CONTRACTOR SHALL PROVIDE PLUMBING FIXTURES WITH FLUSH VALVE INSERTION OF FINISHED FLOOR TREATMENT. TILE OR CARPET MARKER AS NECESSARY. TABLE MANUFACTURERS: MCGUIRE, T&S BRASS, OR BRASSCRAFT.

NDARDS INCLUDING HEIGHT AND CLEARANCE REQUIREMENTS. TSCREW AND COVER TUBE.

RELEASED FOR CONSTRUCTION Noted on Plans Revie elopment Services Depa Lee's Summit, Missour 07/03/2024 S AD Ō MO 64086 PROPOSED CHIPMAN RO PROTOTYPE VERSION V2-B SUMMIT, NN 10 EE'S 0 **© GEMINI** ENGINEERING GROUP SEAL CLAYTON LUCAS NUMBER 入の、PE-2024000504 / 知度 05/30/2024 **REVISION SET** CONTRACTOR SHALL VERIFY ALL CONDITIONS AND DIMENSIONS AT THE JOB SITE AND NOTIFY THE ARCHITECT OF ANY DIMENSIONAL ERRORS, OMISSIONS OR DISCREPANCIES BEFORE BEGINNING OR FABRICATING ANY WORK. DO NOT SCALE DRAWINGS. ISSUE DATE DESCRIPTION PROJECT INFORMATION PROJECT NO: 24-0087 ORIGINAL ISSUE: 09/06/2022 AS NOTED SCALE: DRAWN BY: JB CHECKED BY: CL SHEET TITLE PLUMBING SCHEDULES SHEET NUMBER P102



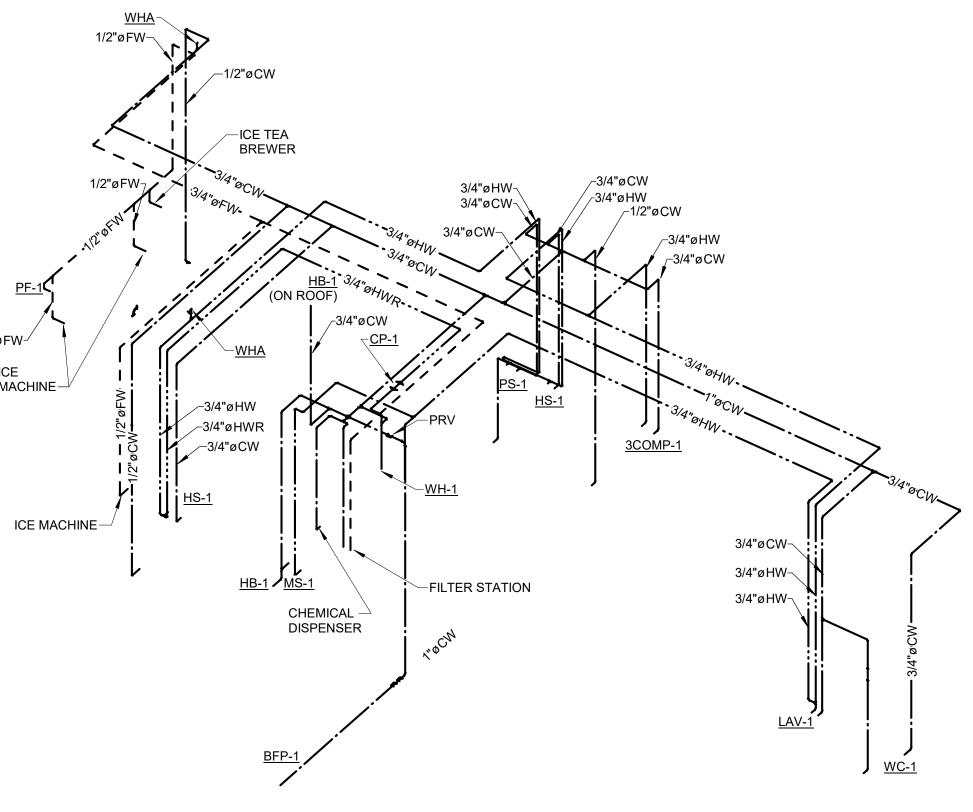




2 DOMESTIC WATER RISER DIAGRAM

1/2"øFW-⁄ ICE MACHINE-

PF-

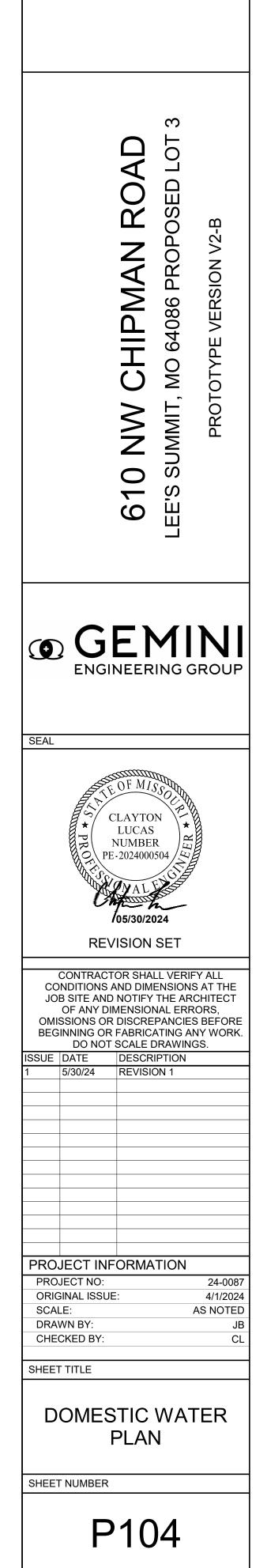


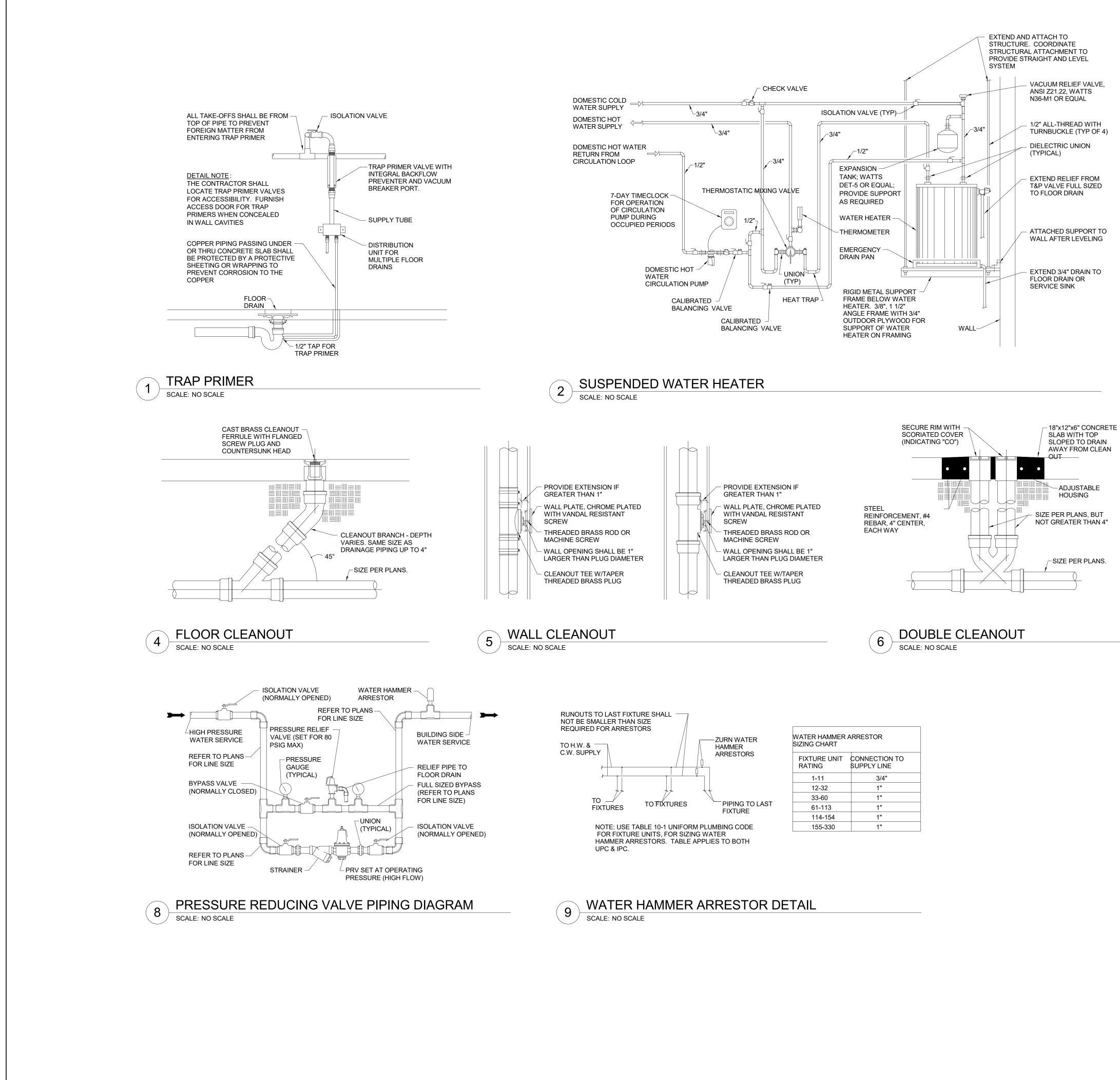


RELEASED FOR CONSTRUCTION As Noted on Plans Revigu

evelopment Services Depa Lee's Summit, Missou 07/03/2024

|    | NOTES BY SYMBOL                                                                                                                                                                                                                                                                                                          |
|----|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1  | REFER TO CIVIL PLANS FOR CONTINUATION OF DOMESTIC WATER SERVICE AND METER TO BUILDING.                                                                                                                                                                                                                                   |
| 2  | 3/4-INCH DOMESTIC/FILTERED WATER CONNECTIONS TO FILTERED WATER<br>STATION (BY OTHERS). REFER TO ARCHITECTURAL PLANS FOR ADDITIONAL<br>INFORMATION. PROVIDE AND INSTALL AN IN-LINE RPZ (WATTS LF009-QT) ON<br>SUPPLY SIDE OF FILTERED WATER STATION. RPZ DRAIN LINE SHALL DISHCARGE<br>INTO MOP SINK.                     |
| 3  | 1/2-INCH DOMESTIC WATER PIPING DOWN TO CHEMICAL DISPENSER (BY OTHERS).<br>PROVIDE AND INSTALL T&S BRASS; B-0205LN FAUCET FOR CONNECTION TO<br>CHEMICAL DISPENSER. REFER TO ARCHITECTURAL PLANS FOR ADDITIONAL<br>INFORMATION. PROVIDE AND INSTALL AN IN-LINE BACKFLOW PREVENTION<br>DEVICE (WATTS LF009-QT-FS OR EQUAL). |
| 4  | CONNECT 1/2-INCH FILTERED WATER PIPING INTO ICE TEA BREWER (PROVIDED<br>BY OTHERS). PROVIDE WITH ISOLATION VALVE AND IN-LINE BACKFLOW<br>PREVENTION DEVICE (WATTS SD-3 OR APPROVED EQUAL). REFER TO<br>ARCHITECTURAL PLANS FOR ADDITIONAL INFORMATION.                                                                   |
| 5  | CONNECT 1/2-INCH FILTERED WATER PIPING INTO ICE MACHINE (PROVIDED BY<br>OTHERS). PROVIDE WITH ISOLATION VALVE AND IN-LINE BACKFLOW PREVENTION<br>DEVICE (WATTS SD-3 OR APPROVED EQUAL). REFER TO ARCHITECTURAL PLANS<br>FOR ADDITIONAL INFORMATION.                                                                      |
| 6  | 1/2-INCH DOMESTIC WATER PIPING SERVING FLOOR DRAIN/FLOOR SINK TRAP<br>PRIMER. INSTALL TRAP PRIMER IN ACCESSIBLE LOCATION OR PROVIDE WALL<br>MOUNTED ACCESS PANEL. COORDINATE LOCATION OF ACCESS PANEL WITH<br>ARCHITECT PRIOR TO INSTALLATION.                                                                           |
| 7  | 3/4-INCH DOMESTIC WATER UP TO HOSE BIBB (HB-1) ON ROOF PARAPET. REFER<br>TO ARCHITECTURAL PLANS FOR ADDITIONAL INFORMATION.                                                                                                                                                                                              |
| 8  | PROTECT IN-WALL PIPING WITH NAIL PLATES                                                                                                                                                                                                                                                                                  |
| 9  | FILTERED WATER LINE CONNECTING TO POTFILLER AND TEA BREWER TO BE<br>MADE OF FLEX LINE. 4'-11" MOUNTING HEIGHT.                                                                                                                                                                                                           |
| 10 | PROVIDE DOMESTIC WATER SHUT OFF VALUE.                                                                                                                                                                                                                                                                                   |





| WATER HAMMER<br>SIZING CHART | ARRESTOR                     |
|------------------------------|------------------------------|
| FIXTURE UNIT<br>RATING       | CONNECTION TO<br>SUPPLY LINE |
| 1-11                         | 3/4"                         |
| 12-32                        | 1"                           |
| 33-60                        | 1"                           |
| 61-113                       | 1"                           |
| 114-154                      | 1"                           |
| 155-330                      | 1"                           |

RELEASED FOR CONSTRUCTION loted on Plans Pou ment Services De Lee's Summit, Misso 07/03/2024 - DOUBLE CHECK  $\mathcal{C}$ BACKFLOW PREVENTER ISOLATION -(WATTS MODEL 850 OR BALL VALVE ÈQUAL)  $\cap$ 0 Ш Ľ SO Ю **VERSION V2** HIPMAN PROF - UNION (TYPICAL) RECESSED VALVE BOX, -64086 HDPE (ASTM 1248) 17"x12" FLUSH COVER (CARSON INDISTRIES 1419-3 OR ΥPΕ EQUAL). LOCATE IN NON-TRAFFIC AREAS ONLY 0 M (GRASS OR LANDSCAPED  $\mathbf{O}$ 0T ÀREAS ONLY) PROT UMMIT NN DOMESTIC WATER SERVICE ENTRANCE SCALE: NO SCALE 0 ഗ S  $\overline{}$ Ш - 12"x12"x6" CONCRETE SLAB WITH TOP SECURE RIM WITH -0 SCORIATED COVER (INDICATING "CO") SLOPED TO DRAIN AWAY FROM CLEAN OUT\_\_\_\_ **© GEMINI** REINFORCEMENT, #4 REBAR, 4" CENTER, EACH WAY ENGINEERING GROUP LONG SWEEP BEND SAME -- PROVIDE SANITARY SIZE AS BUILDING DRAIN. WYE AND EIGHT BEND IF REDUCE TO 4" ABOVE MID RUN CLEANOUT FITTING WHERE BUILDING DRAIN IS GREATER THAN 4" SIZE PER PLANS. CLAYTON **GRADE CLEANOUT** LUCAS NUMBER SCALE: NO SCALE 入の、 PE-2024000504 / (4 **REVISION SET** CONTRACTOR SHALL VERIFY ALL CONDITIONS AND DIMENSIONS AT THE JOB SITE AND NOTIFY THE ARCHITECT OF ANY DIMENSIONAL ERRORS, OMISSIONS OR DISCREPANCIES BEFORE BEGINNING OR FABRICATING ANY WORK. DO NOT SCALE DRAWINGS. ISSUE DATE DESCRIPTION PROJECT INFORMATION PROJECT NO: 24-0087 ORIGINAL ISSUE: 09/06/2022 AS NOTED SCALE: DRAWN BY: JE CHECKED BY: CI SHEET TITLE PLUMBING DETAILS SHEET NUMBER P105

3

STEEL

PLUMBING SPECIFICATIONS

<u> PART I - GENERAL</u>

1.01 DESCRIPTION

THIS PROJECT.

OF THE LATEST EDITION.

C. REPORT, IN WRITING, TO THE ARCHITECT ANY AND ALL CONDITIONS WHICH MAY INTERFERE WITH OR OTHERWISE AFFECT OR PREVENT THE PROPER EXECUTION AND COMPLETION OF THE WORK OF THIS SECTION. DO NOT COMMENCE WORK UNTIL ANY AND ALL SUCH CONDITIONS HAVE BEEN CORRECTED BY THE TRADE OR TRADES RESPONSIBLE.

D. FAILURE TO NOTIFY THE ARCHITECT OF UNSATISFACTORY CONDITIONS WILL BE CONSTRUED AS AN ACCEPTANCE OF ALL CONDITIONS.

E. THE EXECUTION OF THE WORK OF THIS SECTION CONSTITUTES ACCEPTANCE OF THE BASE OR ADJOINING WORK AND OTHER CONDITIONS AS BEING SATISFACTORY IN EVERY RESPECT AND LATER CLAIMS OF DEFECTS IN SUCH CASES WILL NOT BE ALLOWED.

THE BUILDING.

1.05 <u>TESTS</u>

SYSTEMS.

1.06 CLEANING A. ALL PIPING, FIXTURES, EQUIPMENT, ETC., INSTALLED UNDER THIS CONTRACT SHALL BE THOROUGHLY CLEANED AND PROTECTED DURING CONSTRUCTION AND PUT INTO FIRST-CLASS OPERATING CONDITION BEFORE BEING OFFERED FOR ACCEPTANCE

BE REMOVED.

A. THE PLUMBING CONTRACTOR SHALL BE A LICENSED INSTALLER OF PLUMBING SYSTEMS IN THE CITY WHERE WORK IS PERFORMED.

B. THE CONTRACTOR SHALL BE QUALIFIED WITH AT LEAST 5 YEARS OF SUCCESSFUL INSTALLATION EXPERIENCE ON PROJECTS WITH WORK SIMILAR TO THAT REQUIRED FOR

C. ALL WORK SHALL COMPLY WITH THE REQUIREMENTS OF APPLICABLE BUILDING CODE

## 1.02 VERIFYING CONDITIONS

A. EXAMINE ALL DRAWINGS COVERING THE WORK OF THIS SECTION AND REFER TO OTHER DRAWINGS, INCLUDING ARCHITECTURAL, MECHANICAL, AND ELECTRICAL DRAWINGS, WHICH MAY AFFECT THE WORK OF THIS SECTION OR REQUIRE COORDINATION BY SAME.

B. BEFORE STARTING ANY WORK, EXAMINE AND THOROUGHLY CHECK DRAWINGS, DIMENSIONS, SPECIFICATIONS, AND ADJOINING OR UNDERLYING CONDITIONS IN WHICH THE WORK OF THIS SECTION IS TO BE PERFORMED.

F. THE DRAWINGS INDICATE AND THE SPECIFICATIONS DESCRIBE THE GENERAL ARRANGEMENT AND THE APPROXIMATE LOCATION OF EQUIPMENT, FIXTURES, PIPING, ETC. EXACT LOCATIONS MAY BE ADJUSTED IN THE FIELD TO SUIT EXISTING CONDITIONS.

G. THE CONTRACTOR SHALL, WITHOUT EXTRA COST TO THE OWNER, MAKE ALL REASONABLE MODIFICATIONS IN THE WORK AS MAY BE REQUIRED TO PREVENT CONFLICT WITH THE WORK OF OTHER TRADES, OR FOR THE PROPER INSTALLATION OF THE WORK.

### 1.04 AS-BUILT DRAWINGS

A. THE CONTRACTOR SHALL KEEP A SET OF PLANS ON THE JOB, NOTING DAILY ALL CHANGES MADE IN CONNECTION WITH THE FINAL INSTALLATION INCLUDING EXACT DIMENSIONED LOCATIONS OF ALL NEW AND UNCOVERED EXISTING UTILITY PIPING OUTSIDE

B. PREPARE AND SUBMIT "AS-BUILT" DRAWINGS AT THE COMPLETION OF THE PROJECT.

A. ALL PLUMBING SYSTEMS SHALL BE SUBJECT TO AN OPERATING TEST UNDER DESIGN CONDITIONS TO ENSURE PROPER SEQUENCE AND OPERATION THROUGHOUT THE RANGE OF OPERATION REGARDLESS OF THE SEASON.

B. ALL NEW PLUMBING SYSTEMS SHALL BE OPERATED SEPARATELY AND COINCIDENT WITH OTHER SYSTEMS FOR A PERIOD OF TIME TO DEMONSTRATE TO THE SATISFACTION OF THE OWNER, ENGINEER AND ARCHITECT THE ABILITY OF THE EQUIPMENT TO MEET CAPACITY AND PERFORMANCE REQUIREMENTS WHILE MAINTAINING DESIGN CONDITIONS IN ACCORDANCE WITH THE TRUE INTENT AND PURPOSE OF THESE SPECIFICATIONS

C. MAKE ADJUSTMENTS AS REQUIRED TO ENSURE PROPER FUNCTIONING OF ALL

B. UPON COMPLETION OF ALL WORK, THE PLUMBING CONTRACTOR SHALL THOROUGHLY CLEAN ALL PLUMBING FIXTURES AND LEAVE ALL ITEMS READY FOR USE BY THE OWNER. ALL FLOOR DRAINS SHALL BE CLEANED AND MANUFACTURERS PROTECTIVE COVERINGS SHALL

1.07 LAWS, ORDINANCES, ETC.

A. THE WORK OF THIS CONTRACTOR MUST COMPLY WITH ALL LOCAL LAWS, ORDINANCES AND RULES. THIS CONTRACTOR MUST HAVE THE NECESSARY INSPECTIONS MADE BY THESE AUTHORITIES, PAY ALL THE REQUIRED FEES, AND FURNISH THE OWNER WITH CERTIFICATES OF APPROVAL BEFORE FINAL PAYMENT ON THIS CONTRACT IS MADE. HE SHALL APPLY, PAY FOR, AND OBTAIN ALL PERMITS.

### 1.08 SUPERVISION

A. THIS CONTRACTOR SHALL HAVE A COMPETENT FOREMAN IN CHARGE OF THE WORK WHO SHALL BE ON THE SITE DURING THE INSTALLATION OF THE MATERIAL FURNISHED UNDER THIS SPECIFICATION UNTIL SAME HAS BEEN PUT IN COMPLETE OPERATIVE CONDITION AND ACCEPTED BY THE OWNER.

1.09 CUTTING AND PATCHING

A. THIS CONTRACTOR SHALL DO ALL CUTTING AND PATCHING FOR PLUMBING WORK AND SHALL COORDINATE SAME WITH ALL OTHER TRADES. ALL CUTTING SHALL BE SUBJECT TO TRADE REGULATIONS. NO CUTTING OF STRUCTURAL MEMBERS SHALL BE DONE WITHOUT THE APPROVAL OF THE ARCHITECT.

PART 2 - MATERIAL

## 2.01 <u>GENERAL</u>

A. THE PLUMBING SYSTEMS SHALL BE COMPLETE WITH ALL PIPES, FITTINGS, TRAPS, VALVES, HANGERS AND SUPPORTS, INSULATION, ETC. AND ALL OTHER ITEMS NECESSARY FOR COMPLETE AND OPERATING APPROVED TYPE SYSTEM.

B. MANUFACTURERS: FIRMS REGULARLY ENGAGED IN MANUFACTURE OF PRODUCTS OF THIS TYPE WHOSE PRODUCTS HAVE BEEN IN SATISFACTORY USE IN SIMILAR SERVICE FOR NOT LESS THAN 5 YEARS.

C. UL COMPLIANCE: PROVIDE COMPONENTS WITH UL LISTING AND LABELING WHEN THERE IS AN APPLICABLE UL CATEGORY.

D. PROVIDE MATERIALS, PRODUCTS, AND FABRICATIONS THAT COMPLY WITH ENVIRONMENTAL PROTECTION AGENCY (EPA) REQUIREMENTS AND RECOMMENDATIONS REGARDING LEAD CONTENT AND CONTRIBUTION OF LEAD TO POTABLE WATER. THAT HAVE NO LEAD OR LEAD ALLOYS IN CONTACT WITH POTABLE WATER, AND THAT DO NOT CONTRIBUTE TO OR CAUSE LEAD IN POTABLE WATER.

E. PROVIDE MATERIALS, PRODUCTS, AND FABRICATIONS THAT COMPLY WITH ENVIRONMENTAL PROTECTION AGENCY (EPA) REQUIREMENTS AND RECOMMENDATIONS REGARDING LEAD CONTENT AND CONTRIBUTION OF LEAD TO POTABLE WATER, THAT HAVE NO LEAD OR LEAD ALLOYS IN CONTACT WITH POTABLE WATER, AND THAT DO NOT CONTRIBUTE TO OR CAUSE LEAD IN POTABLE WATER.

2.02 SANITARY WASTE AND VENT PIPE AND FITTINGS

A. SANITARY SEWER - CAST IRON, DWV COPPER, OR PVC PIPING MAY BE USED EXCEPT THAT ALL PIPING BELOW GRADE SHALL BE PVC OR CAST IRON. RETURN AIR PLENUM RATED PIPING SHALL BE CAST IRON OR DWV COPPER. VENTS TWO (2") INCHES IN SIZE AND SMALLER MAY BE DWV COPPER PIPING.

### 2.03 COLD WATER AND HOT WATER PIPE AND FITTINGS

A. DOMESTIC COLD AND HOT WATER PIPING SHALL BE COPPER TYPE "L" WITH WROUGHT COPPER FITTINGS OR PVC/CPVC AS REQUIRED BY CODE. PVC AND CPVC SHALL BE SCHEDULE 40 ALL FITTINGS ARE TO MATCH PIPING TYPES. PIPE SHALL BE MANUFACTURED RIGID CPVC COMPOUNDS WITH A CELL CLASS OF 24448 AS IDENTIFIED IN ASTM D 1784. FITTINGS SHALL BE MANUFACTURED FROM RIGID CPVC WITH A CELL CLASS OF 23447 AS IDENTIFIED IN ASTM D 1784.

B. PEX PIPING IS ALLOWED AS AN ALTERNATE. CONTRACTOR IS RESPONSIBLE FOR VERIFYING PIPE SIZES IN ACCORDANCE WITH APPLICABLE BUILDING CODES AND AHJ.

2.06 EXPANSION JOINTS AND ANCHORS

A. PROPER PROVISIONS SHALL BE MADE FOR EXPANSION AND CONTRACTION OF ALL PIPES AND THE PIPING SHALL BE ARRANGED WITH ALL NECESSARY PIPE EXPANSION LOOPS AND SWING JOINTS.

B. MAINS AND BRANCHES MUST BE SO INSTALLED WITH SWING CONNECTIONS SO AS TO PERMIT FREE EXPANSION OF PIPING.

2.07 HANGERS AND SUPPORTS

A. FURNISH ALL NECESSARY HANGERS, SUPPORTS, INSERTS, CLAMPS, ETC. AS REQUIRED. ALL HANGERS AND SUPPORTS SHALL BE OF HEAVY CONSTRUCTION AND SUITABLE FOR THE SIZE OF PIPE TO BE SUPPORTED. ALL INSERTS AND HANGERS SHALL BE INSTALLED TO CLEAR WORK OF OTHER TRADES.

B. ALL HORIZONTAL CAST IRON PIPING SHALL BE SUPPORTED ON FIVE (5) FOOT CENTERS AND AT ALL JOINTS. ALL HORIZONTAL SCREWED PIPING SHALL BE SUPPORTED BY HANGERS SPACED NOT OVER TEN (10) FEET APART. ALL BRANCHES SHALL HAVE SEPARATE HANGERS. HANGERS SHALL BE CLEVIS TYPE, CONSTRUCTED OF HEAVY BAR STEEL STOCK, WITH PROPER SIZE SUSPENSION ROD AND LOCKNUTS. WHERE PIPING IS SUPPORTED FROM THE FLOOR. PROVIDE ADJUSTABLE PIPE SADDLE SUPPORT WITH U-BOLT.

C. WHERE PIPES ARE TO BE INSULATED, THE HANGERS SHALL BE OF AMPLE SIZE TO PROVIDE FOR THE COVERING SPECIFIED AND BE PROVIDED WITH GALVANIZED STEEL INSULATION SHIFI DS

D. ALL HANGERS, RODS, BEAM CLAMPS, ETC. SHALL BE SHOP ZINC COATED.

E. ALL HORIZONTAL COPPER TUBING SHALL BE SUPPORTED BY HANGERS NOT OVER SIX (6) FEET APART FOR PIPING 1-1/4 INCH AND SMALLER AND NOT OVER TEN (10) FEET APART FOR PIPING 1-1/2 INCH AND LARGER. ALLOW BRANCHES SHALL HAVE SEPARATE HANGERS. HANGERS SHALL BE CLEVIS TYPE WITH COPPER BOTTOM SUPPORT. IF CHANNEL OR ANGLE IRON TRAPEZE HANGERS ARE USED, THE SPACE ON HANGERS FOR THE COPPER TUBING SHALL BE WRAPPED WITH LEAD SHIELDS TO ISOLATE TUBING.

F. IN AREAS OF STEEL CONSTRUCTION. PIPE HANGERS SHALL BE SUPPORTED BY BEAM CLAMPS. COORDINATE WITH ENGINEER FOR MAXIMUM LOADING. BEAM CLAMPS SHALL BE STEEL WITH BOLT, NUT AND SOCKET THREADED FOR ROD CONNECTION AND SHALL BE F & S MANUFACTURING COMPANY FIG. #45, CENTRAL IRON, GRINNELL COMPANY, OR APPROVED EQUAL.

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# 2.08 INSULATION

A. COVER ALL HOT WATER PIPE WITH 1 INCH THICK AND ALL COLD WATER PIPE WITH 1/2 INCH THICK MANVILLE MICRO-LOK AP-T PLUS FIBERGLASS INSULATION. FITTINGS AND VALVES SHALL BE INSULATED WITH MANVILLE ZESTON 2000 PVC INSULATED FITTING COVERS. INSTALL ALL INSULATION AS PER MANUFACTURERS RECOMMENDATIONS. ALL INSULATION MATERIAL SHALL COMPLY WITH THE LOCAL CODE REQUIREMENTS FOR OF A FLAME SPREAD RATING NOT TO EXCEED 25 AND A SMOKE DEVELOPED RATING NOT TO EXCEED 50.

# 2.09 <u>VALVES</u>

A. STOP VALVES, EXCEPT FIXTURE STOPS, ON HOT AND COLD WATER LINES 2 IN. AND SMALLER SHALL BE FULL PORT 400 LB. NON-SHOCK BRONZE BALL VALVES, NIBCO T-595-Y FOR THREADED CONNECTIONS, AND NIBCO S-595-Y FOR COPPER TO COPPER, OR APPROVED OTHER.

B. GLOBE VALVES UP TO AND INCLUDING 3 IN. SHALL BE SCREW-OVER BONNET, COMPOSITION DISC, BRASS, NIBCO T-211 FOR THREADED CONNECTIONS AND S-211 FO SOLDER CONNECTIONS, OR APPROVED OTHER.

C. CHECK VALVES SHALL BE OF THE SWING-TYPE, SIZES UP TO AND INCLUDING 3 IN. SHALL BE ALL BRASS, 125 LB. S.W.P., NIBCO T-413 FOR THREADED CONNECTIONS & NIBCO S-413 FOR SOLDER CONNECTIONS OR APPROVED OTHER.

# 2.10 VALVE TAGS AND CHART

A. EACH VALVE, EXCEPT VALVES AT FIXTURES, SHALL HAVE A 2 INCH DIAMETER BRASS TAG WITH 1 INCH HIGH NUMERAL STAMPED THEREON, SECURED TO THE VALVE BY MEANS OF BRASS'S HOOK OR BRASS CHAIN. EACH SYSTEM TO HAVE A LETTER DESIGNATION IDENTIFYING SOURCE AS WELL.

B. THE CONTRACTOR SHALL FURNISH AN APPROVED, NEATLY DRAWN VALVE CHART PROPERLY FRAMED, SHOWING THE USE AND LOCATION OF EACH VALVE THAT IS TAGGED.

# 2.11 SHOCK ARRESTORS

A. SHOCK ARRESTORS SHALL BE JONESPEC MODEL #55000 SERIES OR APPROVED EQUAL 2.12 CONNECTION TO MISC. EQUIPMENT

A. PROVIDE ALL NECESSARY PIPE, FITTINGS, VALVES, ETC. EXCEPT AS OTHERWISE SPECIFIED AND MAKE ALL FINAL PLUMBING PIPING CONNECTIONS, INCLUDING WASTE, VENT, HOT AND COLD WATER, ETC., TO ALL EQUIPMENT REQUIRING SAME, FURNISHED "UNDER ANOTHER SECTION OF THE SPECIFICATIONS"

# 2.13 CONDENSATE DRAIN PIPING

A. CONDENSATE DRAIN PIPING SHALL BE TYPE "M" COPPER OR SCHEDULE 40 PVC, WHERE PERMITTED BY LOCAL CODE.

# 2.14 GUARANTEE

A. THIS CONTRACTOR SHALL GUARANTEE FOR A PERIOD OF ONE (1) YEAR FROM DATE OF ACCEPTANCE BY THE OWNERS, ALL MATERIALS, APPARATUS AND WORKMANSHIP WHETHER FURNISHED BY HIMSELF OR BY HIS SUBCONTRACTORS AND HE SHALL REPLACE OR REPAIR IN A MANNER APPROVED BY THE ARCHITECTS, WITHOUT COST TO THE OWNER, ANY PARTS OR PARTS OF THE WORK WHICH MAY PROVE DEFECTIVE OR UNSATISFACTORY WITHIN THE PERIOD OF THE GUARANTEE.

B. WHERE SPECIAL GUARANTEES COVERING INSTALLATION, OPERATION OR PERFORMANCE OF ANY SYSTEMS OR APPLIANCES FURNISHED UNDER THIS CONTRACTOR ARE REQUIRED, THE FULL RESPONSIBILITY FOR THE FULFILLMENT OF SUCH GUARANTEES MUST BE ASSUMED BY THE CONTRACTOR, WHO SHALL OBTAIN WRITTEN GUARANTEES, IN TRIPLICATE, WHICH SHALL BE FILED WITH THE ARCHITECT BEFORE FINAL ACCEPTANCE.

C. CONTRACTOR WILL BE RESPONSIBLE FOR ALL LEAKS IN ALL PIPES FOR A PERIOD OF ONE YEAR FROM THE DATE OF COMPLETION OF WORK UNDER THIS CONTRACT. CONTRACTOR SHALL REPAIR AT NO COST TO THE OWNER, ALL SUCH LEAKS WHICH OCCUR AFTER COMPLETION OF THIS CONTRACT UPON 24 HOURS NOTICE THEREOF BY THE CONSTRUCTION MANAGER/GENERAL CONTRACTOR. LEAKS WHICH OCCUR PRIOR TO THE COMPLETION OF THIS CONTRACT SHALL BE REPAIRED AT ONCE. CONTRACTOR IS RESPONSIBLE FOR ANY DAMAGE CAUSED BY SUCH LEAKS AND THE REPAIR THEREOF AND WILL REIMBURSE THE CONSTRUCTION MANAGER/GENERAL CONTRACTOR FOR ALL EXPENSE INCURRED THEREBY.

D. DISINFECTION THE POTABLE WATER SYSTEM SHALL BE DISINFECTED PRIOR TO USE BY A METHOD OF DISINFECTION IN ACCORDANCE WITH THE NATIONAL PLUMBING CODE CHAPTER 10 PARAGRAPH-10.9. THE POTABLE WATER PURITY TEST RESULT FROM A NEW JERSEY CERTIFIED TESTER SHALL BE SUBMITTED FOR ENGINEER'S REVIEW AND APPROVAL.

2.15 PRESSURE REDUCING VALVE (DOMESTIC WATER)

A. SIZE 1/2" - 2-1/2" THREADED BRONZE BODY CONSTRUCTION RENEWABLE STAINLESS STEEL SEAT. HIGH TEMPERATURE RESISTING DIAPHRAGM, SPRING CAGE CONSTRUCTION AND STRAINER. WATTS NO. 223S OR APPROVED EQUAL. SEE DRAWINGS FOR PSI SETTINGS.

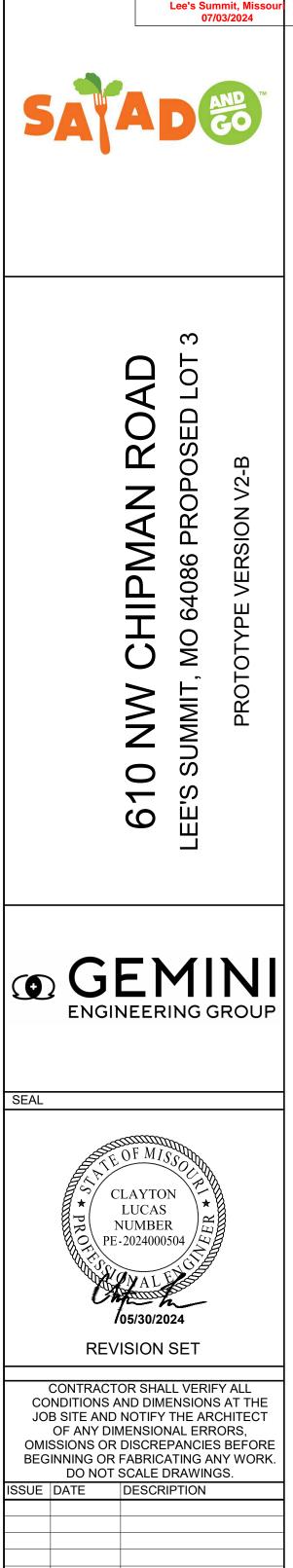
# 2.16 PLUMBING FIXTURES AND EQUIPMENT

A. PLUMBING CONTRACTOR SHALL FURNISH AND INSTALL ALL PLUMBING FIXTURES AND APPLIANCES, UNLESS OTHERWISE NOTED, AND MAKE ALL FINAL CONNECTIONS AS REQUIRED.

B. REFER TO ARCHITECTURAL PLANS AND/OR SPECIFICATIONS FOR EXACT PLUMBING FIXTURE TYPE, MAKE AND MOUNTING HEIGHTS.

# 2.17 COMMISSIONING

A. WHEN REQUIRED. IT IS THE OWNER'S RESPONSIBILITY TO CONTRACT WITH A COMMISSIONING AUTHORITY TO COMPLY WITH LOCAL CODES.



| PROJECT INFORMATION |             |   |            |  |  |  |  |  |  |
|---------------------|-------------|---|------------|--|--|--|--|--|--|
| PRO                 | JECT NO:    |   | 24-0087    |  |  |  |  |  |  |
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SHEET TITLE

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DRAWN BY: CHECKED BY:

| PLUMBING<br>SPECIFICATIONS |
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| ET NUMBER                  |
| P106                       |

- CONFLICTS.
- WORK.
- MAKING THE CHANGE.
- WIRING, OR CONDUIT.

- SELECTION.
- MATERIAL.

# MECHANICAL SYMBOLS AND ABBREVIATIONS

# GENERAL NOTES

PERFORM ALL WORK IN ACCORDANCE WITH ALL APPLICABLE CODES AND AUTHORITIES HAVING JURISDICTION. PROVIDE ALL PERMITS, INSPECTIONS, LICENSES AND FEES. FURNISH ALL LABOR, EQUIPMENT, SUPPLIES AND MATERIALS NECESSARY TO PROVIDE COMPLETE AND OPERATIONAL SYSTEMS.

THE DRAWINGS AND SPECIFICATIONS INDICATE THE GENERAL DESIGN AND ARRANGEMENT OF PIPES, FIXTURES, EQUIPMENT, SYSTEMS, ETC. INFORMATION SHOWN IS DIAGRAMMATIC IN CHARACTER AND DOES NOT NECESSARILY INDICATE EVERY REQUIRED OFFSET, FITTING, ETC. DO NOT SCALE THE DRAWINGS FOR DIMENSIONS. TAKE ALL DIMENSIONS, MEASUREMENTS, EQUIPMENT LOCATIONS, LEVELS, ETC FROM THE ARCHITECTURAL DRAWINGS AND FROM THE EQUIPMENT TO BE FURNISHED. PIPING MAY BE RELOCATED OR OFFSET FOR PROPER CLEARANCES OR TO AVOID CONFLICTS WITH OTHER TRADES. THE DESIGN INTENT (I.E. PITCHES, VELOCITIES, PRESSURE DROPS, VOLTAGE DROPS, ETC) CANNOT BE GREATLY ALTERED WITHOUT THE APPROVAL OF THE ARCHITECT. THE COST OF THESE DEVIATIONS TO AVOID INTERFERENCE'S SHALL BE PART OF THE ORIGINAL CONTRACT BID.

CONFER AND COOPERATE WITH ALL OTHER TRADES TO COORDINATE THEIR WORK. COORDINATION SHALL INCLUDE, BUT SHALL NOT BE LIMITED TO MATERIALS AND EQUIPMENT ROUTED IN CEILING AND WALL CAVITIES, EQUIPMENT ARRANGEMENT IN MECHANICAL SPACES, INCLUDING EQUIPMENT CLEARANCE REQUIREMENTS, ELEVATIONS AND DIMENSIONS OF STRUCTURAL MEMBERS AND OPENINGS, ETC. NOTIFY THE ARCHITECT OF ANY

BASE FINAL INSTALLATION OF MATERIALS AND EQUIPMENT ON ACTUAL DIMENSIONS AND CONDITIONS AT THE PROJECT SITE. FIELD MEASURE FOR MATERIALS AND EQUIPMENT REQUIRING EXACT FIT. NO EXTRAS WILL BE GIVEN FOR THE CONTRACTOR'S FAILURE TO FIELD COORDINATE.

THE OWNER OR ENGINEER ARE NOT RESPONSIBLE FOR THE CONTRACTOR'S SAFETY PRECAUTIONS OR FOR MEANS, METHODS, TECHNIQUES, CONSTRUCTION SEQUENCES, OR PROCEDURES REQUIRED TO PERFORM THE

6. LOCATE ALL EQUIPMENT THAT MUST BE SERVICED, OPERATED, OR MAINTAINED IN FULLY ACCESSIBLE POSITIONS. EQUIPMENT SHALL INCLUDE (BUT NOT LIMITED TO) VALVES, MOTORS, CONTROLLERS, SWITCHGEAR, AND DRAIN POINTS IF REQUIRED FOR BETTER ACCESSIBILITY. FURNISH ACCESS DOORS FOR THIS PURPOSE. MINOR DEVIATIONS FROM THE DRAWINGS MAY BE ALLOWED TO PROVIDE FOR BETTER ACCESSIBILITY. ANY CHANGES SHALL BE APPROVED BY THE ARCHITECT AND CONSTRUCTION MANAGER/GENERAL CONTRACTOR PRIOR TO

PROVIDE ACCESS DOORS, WALL OPENINGS, ROOF OPENINGS OR ANY OTHER CONSTRUCTION REQUIREMENT NEEDED TO ACCOMMODATE THE MECHANICAL EQUIPMENT. LOCATIONS OF THESE OPENINGS SHALL BE SUBMITTED IN SUFFICIENT TIME TO BE INSTALLED IN THE NORMAL COURSE OF WORK.

COORDINATE ELECTRICAL REQUIREMENTS OF APPROVED MECHANICAL EQUIPMENT WITH THE ELECTRICAL SUB-CONTRACTOR PRIOR TO THE PURCHASE AND INSTALLATION OF ANY ELECTRICAL EQUIPMENT, DEVICES,

PROVIDE GENERAL CONTROL WIRING, THERMOSTATS, MOTORIZED DAMPERS AND CONDUIT ASSOCIATED WITH HVAC EQUIPMENT. COORDINATE THE LOCATION OF ALL THERMOSTATS, ROOM SENSORS, ETC WITH THE ARCHITECT AND ALL OTHER TRADES PRIOR TO INSTALLATION. IF A CONFLICT WITH MILLWORK, LIGHT SWITCHES, WINDOWS, ETC EXISTS, NOTIFY THE ARCHITECT OF THE POTENTIAL INTERFERENCE PRIOR TO INSTALLATION. INSTALL THERMOSTATS WITH PROTECTIVE LOCKING COVER, CENTERED AT 4'-0" ABOVE FINISHED FLOOR, UNLESS OTHERWISE INDICATED. COMPLY WITH THE PROVISIONS OF THE AMERICANS WITH DISABILITIES ACT (ADA).

10. ALL DIMENSIONS SHOWN ON THE DRAWINGS FOR DUCTWORK ARE <u>NET INSIDE CLEAR DIMENSIONS</u>. FOR RECTANGULAR DUCT, THE FIRST FIGURE OF THE DUCT SIZE INDICATES THE DIMENSION OF THE FACE SHOWN. VERIFY THAT THE DUCTWORK SPECIFIED WILL FIT IN THE SPACE AVAILABLE USING THE ARCHITECTURAL, STRUCTURAL AND ELECTRICAL DRAWINGS AS REFERENCE PRIOR TO FABRICATION AND INSTALLATION. ROUND DUCT OF EQUAL NET INSIDE CLEAR AREA MAY BE USED IN LIEU OF RECTANGULAR DUCT.

11. PROVIDE TURNING VANES ON ALL RECTANGULAR SUPPLY, OUTDOOR AIR, EXHAUST AND RETURN DUCTWORK INCLUDING THE TOP AND BOTTOM OF VERTICAL DUCTS.

12. PROVIDE A LOCKING QUADRANT VOLUME DAMPER AT THE TAP OF EACH RUN-OUT TO DIFFUSERS FOR BALANCING PURPOSES, UNLESS OTHERWISE INDICATED. THE RUN-OUT DUCT SIZE IS THE SAME SIZE AS THE DIFFUSER OR GRILLE NECK SIZE UNLESS OTHERWISE INDICATED.

13. REFER TO ARCHITECTURAL DRAWINGS FOR LOCATION OF ALL FIRE RATED WALLS AND CEILINGS. PROVIDE FIRE DAMPERS AND/OR COMBINATION FIRE/SMOKE DAMPERS IN DUCTWORK AT ALL LOCATIONS WHERE DUCTS PASS THROUGH FIRE RATED ASSEMBLY. MECHANICAL SUB-CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING AND INSTALLING FIRE AND FIRE/SMOKE DAMPERS. COORDINATE CONSTRUCTION REQUIREMENTS AND PROVISIONS FOR CONNECTIONS TO FIRE ALARM SYSTEM.

14. ALL DUCTWORK SHALL BE SHEET METAL FABRICATED IN ACCORDANCE WITH SMACNA STANDARDS. ALL DUCT WORK ASSOCIATED WITH CONSTANT VOLUME SYSTEMS SHALL BE CONSTRUCTED TO 2" W.G. AND SEALED TO SMACNA CLASS B. SEAL ALL SEAMS WITH MASTIC SEALANT UL 181 LISTED FOR THE APPLICATION USED. SEALANT SHALL BE DESIGNED FOR USE ON METAL DUCT AND FLEXIBLE DUCT.

15. ALL RECTANGULAR AND ROUND SUPPLY AND RETURN DUCTWORK LOCATED IN EXPOSED INTERIOR AREAS SHALL BE INTERNALLY LINED WITH DUCT LINER AND EXTERNALLY PAINTED. REFER TO ARCHITECT FOR COLOR

16. PROVIDE VIBRATION ISOLATORS FOR MOTOR DRIVEN EQUIPMENT UNLESS NOTED OTHERWISE. PROVIDE ISOLATION AS INDICATED OR AS RECOMMENDED BY THE EQUIPMENT MANUFACTURER.

17. SOME DUCTS SHOWN ON EACH FLOOR PLAN MAY BE SHOWN WITH AN OFFSET FOR CLARITY.

18. SEAL ALL DUCT PENETRATIONS THROUGH FIRE RATED BUILDING ELEMENTS WITH AN APPROVED FIRE PROOFING

19. ALL EQUIPMENT SHALL HAVE IDENTIFICATION TAGS. TAGS SHALL BE PLASTIC LAMINATE, WHITE FACE WITH 1/2" TALL BLACK LETTERS. THE TAG SHALL MATCH THE UNIT DESIGNATIONS SHOWN ON THE SCHEDULES.

20. EXPAND OR REDUCE DUCTS AT EQUIPMENT CONNECTIONS BASED ON THE EQUIPMENT PURCHASED, WITH TRANSITIONS NOT TO EXCEED 30 DEGREES. SIZES SHOWN ON SCHEDULES, ETC. ARE FOR GUIDANCE ONLY. ASPECT RATIO SHALL BE NO GREATER THAN 4:1, PER SMACNA'S GUIDELINES.

21. ALL DUCTS WITH A DIMENSION GREATER THAN 12" PASSING THRU A NON-RATED WALL SHALL HAVE THE OPENING FRAMED IN WITH METAL STUDS. COORDINATE OPENING SIZE AND LOCATION WITH OTHER TRADES.

22. WHERE DAMPERS ARE LOCATED ABOVE HARD CEILINGS PROVIDE CONCEALED YOUNG REGULATORS. REGULATORS SHALL NOT BE LOCATED IN CORRIDORS, PATEINT CARE, OR TREATMENT AREAS. EACH REGULATOR SHALL BE LABLE PER THE SPECIFICATIONS.

23. TEST AND BALANCE SHALL BE PERFORMED BY AN AABC LICENSED FIRM IN THE TESTING, ADJUSTING, AND BALANCING (TAB) BUSINESS FOR A MINIMUM OF 10 YEARS. AABC FIRM SHALL SUBMIT A REPORT TO THE ENGINEER OF RECORD INDICATING EQUIPMENT NAMEPLATE DATA, DESIGN PERFORMANCE, INITIAL TESTED PERFORMANCE, AND FINAL ADJUSTED PERFORMANCE. REPORT SHALL BE SUBMITTED IN A TIMELY FASHION PRIOR TO JOB CLOSE-OUT. TAB SHALL BE PERFORMED ON ALL NEW SYSTEMS SPECIFIED AS PART OF THIS CONTRACT. TAB FIRM SHALL PERFORM A FUNCTIONAL PERFORMANCE TEST OF THE SYSTEM BASED ON THE CONTRACT DOCUMENTS HEREIN SHALL AND RELAY ALL DISCREPANCIES AND OUTSTANDING CONSTRUCTION ITEMS RELATING TO THE MECHANICAL EQUIPMENT AND PERFORMANCE TO THE ENGINEER OF RECORD.

|                                           | SYMBOLS                                                                               |
|-------------------------------------------|---------------------------------------------------------------------------------------|
| SYMBOL                                    | DESCRIPTION                                                                           |
| 20/20                                     | ACOUSTICAL DUCT LINING (FIGURES SHOWN ARE INSIDE DUCT DIMENSIONS                      |
| <ul> <li>≥ 20/20</li> </ul>               | SUPPLY AIR DUCT UP                                                                    |
| 20/20                                     | RETURN DUCT UP                                                                        |
| 20/20                                     | EXHAUST DUCT UP                                                                       |
| <b>≥ 20/20</b> [×]                        | SUPPLY AIR DUCT DOWN                                                                  |
| 20/20                                     | RETURN DUCT DOWN                                                                      |
| 20/20                                     | EXHAUST DUCT DOWN                                                                     |
| 18"                                       | ROUND/SPIRAL DUCT UP                                                                  |
| 18"1 (5)                                  | ROUND/SPIRAL DUCT DOWN                                                                |
|                                           | ARROW INDICATES DIRECTION OF AIR FLOW                                                 |
|                                           | CHANGE OF ELEVATION, RISE(UP) OR DROP (DN) IN DIRECTION OF ARROW                      |
| AD _                                      | BOTTOM ACCESS DOOR (UNLESS OTHERWISE NOTED). SIZE AS NOTED OR SPECIFIED.              |
| AD                                        | SIDE ACCESS DOOR. SIZE AS NOTED OR SPECIFIED.                                         |
|                                           | RECTANGULAR DUCT SQUARE ELBOW WITH TURNING VANES                                      |
| W<br>R=3W/2                               | RECTANGULAR DUCT RADIUS ELBOW                                                         |
| R=3D/2                                    | ROUND DUCT RADIUS ELBOW, 5 SEAM UNLESS OTHERWISE NOTED                                |
| 16/20                                     | TRANSITION CONCENTRIC UNLESS TOP LEVEL OR BOTTOM LEVEL IS NOTED                       |
| <ul> <li>20/20</li> <li>16"⊡ 3</li> </ul> | TRANSITION, RECTANGULAR TO ROUND CONCENTRIC UNLESS TOP LEVEL OR BOTTOM LEVEL IS NOTED |
|                                           | DUCT FLEXIBLE CONNECTION                                                              |
|                                           | SOUND ATTENUATOR                                                                      |
|                                           | SQUARE SUPPLY CEILING DIFFUSER                                                        |
|                                           | SQUARE RETURN CEILING GRILLE                                                          |
|                                           | SQUARE EXHAUST CEILING GRILLE                                                         |
| (T) (S) (D)                               | THERMOSTAT / TEMP SENSOR / DUCT SMOKE DETECTOR                                        |
| $- \llbracket$                            | SIDEWALL SUPPLY GRILLE W/ FLOW ARROW                                                  |
| $\bigcirc$                                | EXHAUST FAN                                                                           |
|                                           | MANUAL VOLUME DAMPER                                                                  |
| FD <b>4</b>                               | FIRE DAMPER                                                                           |
|                                           | MISCELLANEOUS                                                                         |
| (1) DRAWING NO                            | TE REFERENCE (I.E., NOTES BY SYMBOL)                                                  |
|                                           |                                                                                       |

CONNECTION INTO EXISTING  $\bigcirc$ 

RELEASED FOR CONSTRUCTION ated on Plans Rev

ment Services De Lee's Summit, Missou 07/03/2024

# ABBREVIATIONS

| AD     | ACCESS DOOR                   | kW       | KILOWATT                          |
|--------|-------------------------------|----------|-----------------------------------|
| A/C    | AIR CONDITIONING UNIT         | L        | LENGTH                            |
| A/E    | ARCHITECT/ENGINEER            | LAT      | LEAVING AIR TEMPERATURE           |
| AFF    | ABOVE FINISHED FLOOR          |          |                                   |
|        |                               | LPC      | LOW PRESSURE CONDENSATE           |
| AFS    | AIR FLOW SWITCH               | LPS      | LOW PRESSURE STEAM                |
| AHU    | AIR HANDLING UNIT             | LB       | POUNDS                            |
| APPROX | APPROXIMATE                   | LRA      | LOCKED ROTOR AMPS                 |
| BAS    | BUILDING AUTOMATION SYSTEM    | LWT      | LEAVING WATER TEMPERATURE         |
| BHP    | BRAKE HORSE POWER             | MAX      | MAXIMUM                           |
| BTU    | BRITISH THERMAL UNIT PER HOUR | MBH      | 1000 BRITISH THERMAL UNITS / HOUR |
| C/A    | COMBUSTION AIR                | MCA      | MINIMUM CIRCUIT AMPACITY          |
| CC     | COOLING COIL                  | MFR      | MANUFACTURER                      |
| CFH    | CUBIC FEET PER HOUR           | MIN      | MINIMUM                           |
| CFM    | CUBIC FEET PER MINUTE         | N/A      | NOT APPLICABLE                    |
| CLG    |                               | N/O,N/C  |                                   |
|        | CEILING                       |          | NORMALLY OPEN, NORMALLY CLOSED    |
| CU     | CONDENSING UNIT               | O/A      | OUTSIDE AIR/FRESH AIR             |
| D      | EQUIPMENT DRAIN               | OBD      | OPPOSED BLADE DAMPER              |
| DEG    | DEGREES                       | O/C      | ON CENTER                         |
| DB     | DRY BULB                      | PEF      | PURGE EXHAUST FAN                 |
| DN     | DOWN                          | PH       | PHASE                             |
| (E)    | EXISTING                      | PROVIDE  | FURNISH AND INSTALL               |
| ÈÁT    | ENTERING AIR TEMPERATURE      | PRV      | PRESSURE REDUCING VALVE           |
| E/A    | EXHAUST AIR                   | PSI      | POUNDS PER SQUARE INCH            |
| EDH    | ELECTRIC DUCT HEATER          | R/A      | RETURN AIR                        |
| EF     | EXHAUST FAN                   | RE:      | REFERENCE, REFER                  |
| EQUIP  | EQUIPMENT                     | RL       | REFRIGERANT LIQUID                |
| EWT    | ENTERING WATER TEMPERATURE    |          |                                   |
| °F     |                               | RLA      | RUNNING LOAD AMPS                 |
|        | DEGREES FAHRENHEIT            | RM       | ROOM                              |
| FCU    | FAN COIL UNIT                 | RPM      | REVOLUTIONS PER MINUTE            |
| FD     | FIRE DAMPER                   | RS       | REFRIGERANT SUCTION               |
| FLA    | FULL LOAD AMPS                | S/A      | SUPPLY AIR                        |
| FLR    | FLOOR                         | SD       | SMOKE DETECTOR                    |
| FPVAV  | FAN POWERED VAV               | SF       | SQUARE FOOT, SUPPLY FAN           |
| FSD    | FIRE SMOKE DAMPER             | SPECS    | SPECIFICATIONS                    |
| FT.    | FOOT, FEET                    | T, TSTAT | THERMOSTAT, ROOM SENSOR           |
| FT. WG | FEET WATER GAUGE              | T/A      | TRANSFER AIR                      |
| GA     | U.S. GAUGE                    | THRU     | THROUGH                           |
| GPM    | GALLONS PER MINUTE            | TSP      | TOTAL STATIC PRESSURE             |
|        |                               |          |                                   |
| H      | HEIGHT                        | TSTAT    | THERMOSTAT OR ROOM SENSOR         |
| HP     | HORSEPOWER                    | TYP      | TYPICAL                           |
| HPC    | HIGH PRESSURE CONDENSATE      | UL       | UNDERWRITERS LABORATORIES, INC.   |
| HPS    | HIGH PRESSURE STEAM           | UH       | UNIT HEATER                       |
| HWR    | HEATING WATER RETURN          | V        | VOLTS                             |
| HWS    | HEATING WATER SUPPLY          | VAV      | VARIABLE AIR VOLUME               |
| HZ     | HERTZ                         | VEL      | VELOCITY                          |
| IN.    | INCH, INCHES                  | VFD      | VARIABLE FREQUENCY DRIVE          |
| IN.WG  | INCHES WATER GAUGE            | W/       | WITH                              |
| IOM    | INSTALLATION/OPERATION MANUAL | WB       | WET BULB                          |
| J-BOX  | JUNCTION BOX                  | W/O      | WITHOUT                           |
| 0 007  |                               |          |                                   |
|        |                               |          |                                   |

# DRAWING/DETAIL REFERENCE

REFER TO DRAWING/DETAIL NUMBER RE: 2/M1.71 L\_\_\_\_ SHEET NUMBER - NECK SIZE OR WIDTH X HEIGHT (S1)<u>10"Ø</u>-(FOR LOUVERS) AIR VOLUME IN CFM (--- FOR R/A) DIFFUSER, GRILLE DESIGNATION - ELEVATION NUMBER SHEET NUMBER

# BASIS OF MECHANICAL DESIGN

PRIMARY MECHANICAL CODES

MECHANICAL: 2018 INTERNATIONAL MECHANICAL CODE ENERGY: 2018 INTERNATIONAL ENERGY CONSERVATION CODE

PROJECT DESIGN VALUES: OUTDOOR DESIGN TEMPERATURE (SUMMER): AMBIENT TEMPERATURE AT ROOFTOP UNITS: OUTDOOR DESIGN TEMPERATURE (WINTER): INDOOR DESIGN TEMPERATURE (SUMMER): INDOOR DESIGN TEMPERATURE (WINTER): OUTSIDE AIR REQUIREMENTS:

95.5°F (DRYBULB), 75.3°F (WETBULB) 102.35F (DRYBULB, SUMMER) -5.5°F (DRYBULB) 75°F (DRYBULB), 50% (RELATIVE HUMIDITY) 70°F (DRYBULB) PER 2018 IMC TABLE 403.3.1.1



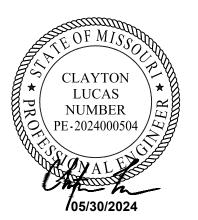
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**REVISION SET** 

CONTRACTOR SHALL VERIFY ALL CONDITIONS AND DIMENSIONS AT THE JOB SITE AND NOTIFY THE ARCHITECT OF ANY DIMENSIONAL ERRORS, OMISSIONS OR DISCREPANCIES BEFORE BEGINNING OR FABRICATING ANY WORK. DO NOT SCALE DRAWINGS. ISSUE DATE DESCRIPTION

PROJECT INFORMATION PROJECT NO: 24-0087 ORIGINAL ISSUE: 09/06/2022 SCALE:

AS NOTED

SHEET TITLE

DRAWN BY: CHECKED BY:

MECHANICAL LEGEND AND NOTES

M101

| MARK<br>RTU-<br>ARRANGEMENT<br>1 DOWNFLOW<br>1. TRANE IS THE BASIS FOR<br>2. PROVIDE WITH THE FOLL<br>3. CONTRACTOR SHALL PRO<br>4. PROVIDE WITH 2-IN. PLEA                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                                                                            |                                                                                                                                                                                  |                                                                                                                                        |                                                                                                                                                        |                                                                                                                                                                    |                                                                                                                  |                                                                                                                                          |                                                                                                                                           |                                                                                             |                                                         | F                                           | ACKA               |                      | K ROOF               |               |                    |                  |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------|---------------------------------------------------------|---------------------------------------------|--------------------|----------------------|----------------------|---------------|--------------------|------------------|
| RTU-     ARRANGEMENT       1     DOWNFLOW       1.     THE BASIS FOR       2.     PROVIDE WITH THE FOLL       3.     CONTRACTOR SHALL PRO                                                                                                                                                                                                                                                                                                                                                                                  | NON                                                                                                                                                                        |                                                                                                                                                                                  |                                                                                                                                        | Y FAN                                                                                                                                                  |                                                                                                                                                                    | OMPRESS                                                                                                          | OR                                                                                                                                       | cc                                                                                                                                        | NDENSER                                                                                     | र                                                       |                                             |                    | COOL                 | ING PERFO            | ORMANC        | E DATA             |                  |
| 1. TRANE IS THE BASIS FOR<br>2. PROVIDE WITH THE FOLL<br>3. CONTRACTOR SHALL PRO                                                                                                                                                                                                                                                                                                                                                                                                                                           | NOM.<br>TONS                                                                                                                                                               | S/A<br>CFM                                                                                                                                                                       | O/A<br>CFM                                                                                                                             | EXT. MOT<br>S.P. H.I                                                                                                                                   |                                                                                                                                                                    | R.L.A.<br>(EACH)                                                                                                 | REF.                                                                                                                                     | NO.<br>FANS                                                                                                                               | AMBIEN<br>D.B.                                                                              | TTEMP<br>W.B.                                           | ENTERING<br>D.B.                            | AIR<br>W.B.        |                      | APACITY (N<br>LATENT | ,             | LEAVIN<br>D.B.     | G AIR MI<br>W.B. |
| 2. PROVIDE WITH THE FOLL<br>3. CONTRACTOR SHALL PRO                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 5                                                                                                                                                                          | 1750                                                                                                                                                                             | 180                                                                                                                                    | 0.8 1.0                                                                                                                                                |                                                                                                                                                                    | , ,                                                                                                              | R-410A                                                                                                                                   | 1                                                                                                                                         | 101                                                                                         | 75                                                      | 77                                          | 64                 | 43.8                 | 11.1                 | 54.9          | 55                 | 55               |
| 2. PROVIDE WITH THE FOLL<br>3. CONTRACTOR SHALL PRO                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                                                                                                                            |                                                                                                                                                                                  |                                                                                                                                        |                                                                                                                                                        |                                                                                                                                                                    |                                                                                                                  |                                                                                                                                          |                                                                                                                                           |                                                                                             |                                                         |                                             |                    |                      |                      |               |                    |                  |
| 3. CONTRACTOR SHALL PRO                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                                                                                                                            |                                                                                                                                                                                  |                                                                                                                                        |                                                                                                                                                        |                                                                                                                                                                    | ,                                                                                                                | ,                                                                                                                                        | ,                                                                                                                                         |                                                                                             |                                                         | IONS. CONTR                                 | ACTORI             | S RESPON             |                      | COORD         |                    |                  |
| 5. EQUIPMENT SHALL BE IDE<br>5. PROVIDE WITH 7-DAY, 24-<br>7. EQUIPMENT SHALL BE SE<br>8. EQUIPMENT SHALL BE INS<br>9. EXTERNAL STATIC PRESS<br>10. CAPACITIES SHOWN ARI<br>11. PROVIDE UNIT WITH SIN<br>12. PROVIDE UNIT WITH SIN<br>13. PROVIDE UNIT WITH INT<br>14. PROVIDE WITH CORROS<br>15. PROVIDE WITH CORROS<br>15. PROVIDE WITH DRY BUL<br>16. PROVIDE WITH DRY BUL<br>16. PROVIDE WITH SPACE M<br>19. PROVIDE WITH SPACE M<br>19. PROVIDE WITH SMOKE D<br>20. PROVIDE WITH SMOKE D<br>21. PROVIDE MINIMUM 2-STA | HR, FULL<br>ET PLUME<br>STALLED<br>SURE (IN<br>E NET FR<br>IGLE POIL<br>PROTEC<br>EGRAL D<br>SION RES<br>B ECONC<br>AK ECONC<br>T-GAS RE<br>MOUNTED<br>W-AMBIEI<br>DETECTC | LY PROC<br>3 AND LE<br>9 BY AUT<br>1. W.G.) I<br>ROM UNI<br>NT ELEC<br>CTION P<br>DISCONN<br>GISTANT<br>DISCONN<br>GISTANT<br>DISCONN<br>ZELAT<br>D RELAT<br>NT KIT S<br>DR LOCA | GRAMM<br>EVEL. F<br>THORIZ<br>INCLUE<br>IT DISC<br>CTRICA<br>ACKAC<br>IECT.<br>CONDI<br>WITH E<br>DAMP<br>IVE HU<br>GUITABI<br>ATED IN | MABLE THE<br>PROVIDE W<br>2ED REPRES<br>DES DUCTW<br>CHARGE. UI<br>L CONNEC<br>3E INCLUDI<br>ENSATE DR<br>BAROMETR<br>ERS.<br>IMIDITY SEN<br>LE DOWN T | RMOSTAT L<br>ITH 14-IN. T<br>SENTATIVE<br>/ORK, BAL/<br>NITS MUST<br>TION. ELEC<br>NG CONDE<br>RAIN PAIN.<br>IC RELIEF 1<br>NSOR LOC/<br>TO 0-DEG. F<br>DUCT INTEF | OCATED P<br>TALL GALVA<br>OF MANUF<br>ANCING DAI<br>PERFORM<br>TRICAL DA<br>NSER HAIL<br>WITH FAUL<br>ATED PER C | ER CONST<br>ANIZED INS<br>FACTURER<br>MPERS AN<br>TO LISTED<br>TA PROVID<br>GUARDS.<br>T DETECTION<br>CONSTRUC<br>NKCASE HI<br>TO SUPPLY | RUCTION DO<br>GULATED FAC<br>OR VERIFIE<br>D AIR DEVIC<br>D CAPACITIE<br>DED INCLUDI<br>ON DIAGNOS<br>CTION DOCUL<br>EATER.<br>FAN AS REC | DCUMENT<br>CTORY RC<br>D BY MAN<br>ES ONLY.<br>S AND SA<br>ES ELECTI<br>STICS PER<br>MENTS. | S.<br>DOF CURB T<br>UFACTURE<br>TISFY BOTH<br>RIC HEAT. | 'O MATCH RO<br>R'S REPRESE<br>I SENSIBLE AN | DF SLOP<br>NTATIVE | 'E.<br><br>NT REQUIR |                      |               |                    |                  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                                                                                                                                            |                                                                                                                                                                                  | v                                                                                                                                      | ENTILA                                                                                                                                                 | TION RE                                                                                                                                                            | QUIRE                                                                                                            | MENT C                                                                                                                                   | ALCULA                                                                                                                                    | ΓΙΟΝ                                                                                        |                                                         |                                             |                    |                      |                      | PER U         | МС ТАВ             | LE 402.1         |
| ROOM NA                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | ME                                                                                                                                                                         |                                                                                                                                                                                  |                                                                                                                                        | UNIT SE                                                                                                                                                | RVICING                                                                                                                                                            | PEC                                                                                                              | OPLE                                                                                                                                     | CFM/PERS                                                                                                                                  | ON                                                                                          | CFM/SF                                                  | AREA (SF)                                   |                    | EOPLE X<br>M/PERSON  | SF X C               | CFM/SF        | REQUIRE<br>O.A. CF |                  |
| OFFICE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | <b>E</b>                                                                                                                                                                   |                                                                                                                                                                                  |                                                                                                                                        | RT                                                                                                                                                     | U-1                                                                                                                                                                |                                                                                                                  | 1                                                                                                                                        | 5                                                                                                                                         |                                                                                             | 0.06                                                    | 61                                          |                    | 5                    | 3.                   | .66           | 8.66               | 1                |
| KITCHEN                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | N                                                                                                                                                                          |                                                                                                                                                                                  |                                                                                                                                        | RT                                                                                                                                                     | Ū-1                                                                                                                                                                |                                                                                                                  | 10                                                                                                                                       | 7.5                                                                                                                                       |                                                                                             | 0.12                                                    | 495                                         |                    | 75                   | 59                   | 9.4           | 134.4              | 1.               |
| FIRE RISER F                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | ROOM                                                                                                                                                                       |                                                                                                                                                                                  |                                                                                                                                        |                                                                                                                                                        | -                                                                                                                                                                  |                                                                                                                  | -                                                                                                                                        | -                                                                                                                                         |                                                                                             | -                                                       | 50                                          |                    | -                    |                      | -             | 0                  |                  |
| RESTROC                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | MC                                                                                                                                                                         |                                                                                                                                                                                  |                                                                                                                                        |                                                                                                                                                        | -                                                                                                                                                                  |                                                                                                                  | -                                                                                                                                        | -                                                                                                                                         |                                                                                             | -                                                       | 50                                          |                    | -                    |                      | -             | 0                  |                  |
| MINIMUM FRESH AIR CFM RI                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                                                                                                                                            | ) PER C                                                                                                                                                                          | ODE                                                                                                                                    |                                                                                                                                                        |                                                                                                                                                                    |                                                                                                                  |                                                                                                                                          |                                                                                                                                           |                                                                                             |                                                         |                                             |                    |                      |                      |               |                    | 143              |
| ZONE AIR DISTRIBUTION EF                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | FECTIVE                                                                                                                                                                    | NESS (1                                                                                                                                                                          | FABLE 4                                                                                                                                | 403.3.1.2) =                                                                                                                                           | 0.8                                                                                                                                                                |                                                                                                                  |                                                                                                                                          |                                                                                                                                           |                                                                                             |                                                         |                                             |                    | =                    |                      |               |                    | 178              |
| FOTAL O.A. PROVIDED                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                                                                                                                            |                                                                                                                                                                                  |                                                                                                                                        |                                                                                                                                                        |                                                                                                                                                                    |                                                                                                                  |                                                                                                                                          |                                                                                                                                           |                                                                                             |                                                         |                                             |                    |                      |                      |               |                    | 1                |
| RESTROOMS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 70 CFM /                                                                                                                                                                   | FIXTUR                                                                                                                                                                           | E                                                                                                                                      |                                                                                                                                                        |                                                                                                                                                                    |                                                                                                                  |                                                                                                                                          |                                                                                                                                           | # F                                                                                         | FIXTURES=                                               | 1                                           |                    | 70                   |                      | XHAUST<br>Q'D | 75                 | CFM EX<br>PROV   |

| MARK | SERVES | FACE<br>SIZE | MOUNTING | TYPE       | MATERIAL | MANUFACTURER<br>MAKE AND MODEL | MAX<br>NC | REMARKS |
|------|--------|--------------|----------|------------|----------|--------------------------------|-----------|---------|
| S1   | SUPPLY | 24" X 24"    | LAY-IN   | PERFORATED | STEEL    | TITUS PAR                      | 30        | 1,2,3   |
| S2   | SUPPLY | 12" X 12"    | LAY-IN   | PERFORATED | STEEL    | TITUS PAR                      | 30        | 1,2,3   |
| S3   | SUPPLY | 6" X 6"      | SURFACE  | PERFORATED | STEEL    | TITUS PAR                      | 30        | 1,2     |
| R1   | RETURN | 24" X 24"    | LAY-IN   | PERFORATED | STEEL    | TITUS PAR                      | 30        | 1,2     |

EQUAL.

2. FINISH SHALL BE WHITE. 3. TRANSITION FROM BACK OF AIR DEVICE TO DUCT SIZE SHOWN ON PLANS.

# AIR CURTAIN SCHEDULE

MANUFACTURER MAKE AND MODEL WEIGHT REMARKS

MARS AIR LPV242-1U-OB 35

1-6

MARK VOLTAGE/PHASE AMPERAGE CFM FLA AC-2 900 120/1

2.4 1. INSTALL WITH AUTOMATIC ON/OFF SWITCH WITH DOOR OR WINDOW OPERATION.

2. PROVIDE FAN WITH BACKDRAFT DAMPER AND FAN SPEED CONTROLLER.

3. NO ELECTRIC HEAT.

4. PROVIDE WITH LOUVER AND FILTER. 5. PROVIDE WALL MOUNTING BRACKETS.

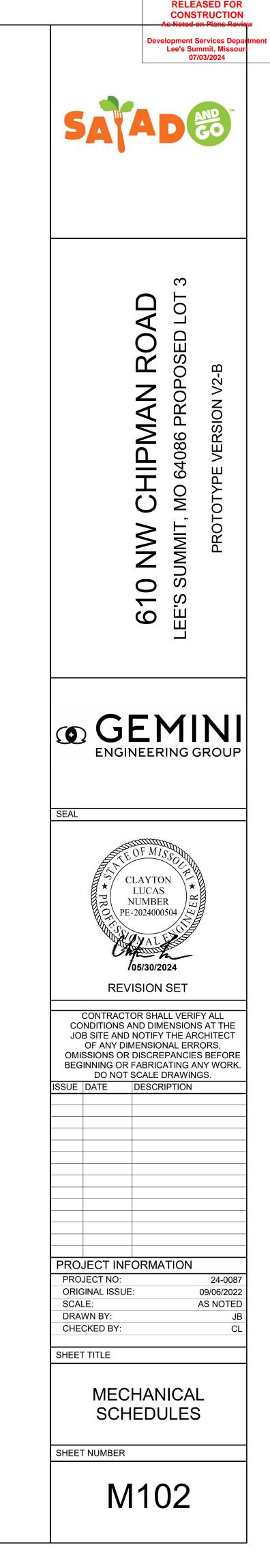
6. PAINT COLOR PER ARCHITECTURAL SPECIFICATIONS.

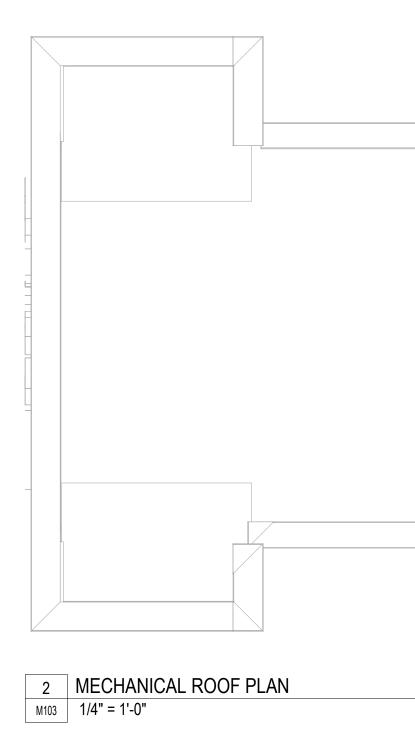
| ELE  | CTRIC HE    | AT SCHE | DULE       |          |        |          |     |           |        |      |                                |        |       |
|------|-------------|---------|------------|----------|--------|----------|-----|-----------|--------|------|--------------------------------|--------|-------|
|      |             |         | HEATING PE | RFORMANC | E DATA |          |     | ELECTRICA | L DATA |      |                                | UNIT   |       |
| ٩R   | MIN. SEER / | ĸw      | NO.        | AMBIENT  | EAT    | LAT D.B. | V.  | Ph.       | MCA    | моср | MANUFACTURER<br>MAKE AND MODEL | WEIGHT | NOTES |
| V.B. | EER         | I.VV    | STAGES     | TEMP     | D.B.   | LAT D.B. | ۷.  | FII.      | INCA   | WOOF |                                | (LBS)  |       |
| 55   | 14.2        | 13.1    | 2          | 32       | 64     | 90       | 208 | 3         | 51     | 60   | TRANE THJ                      | 1,200  | 1-21  |
|      |             |         |            |          |        |          |     |           |        |      |                                |        |       |

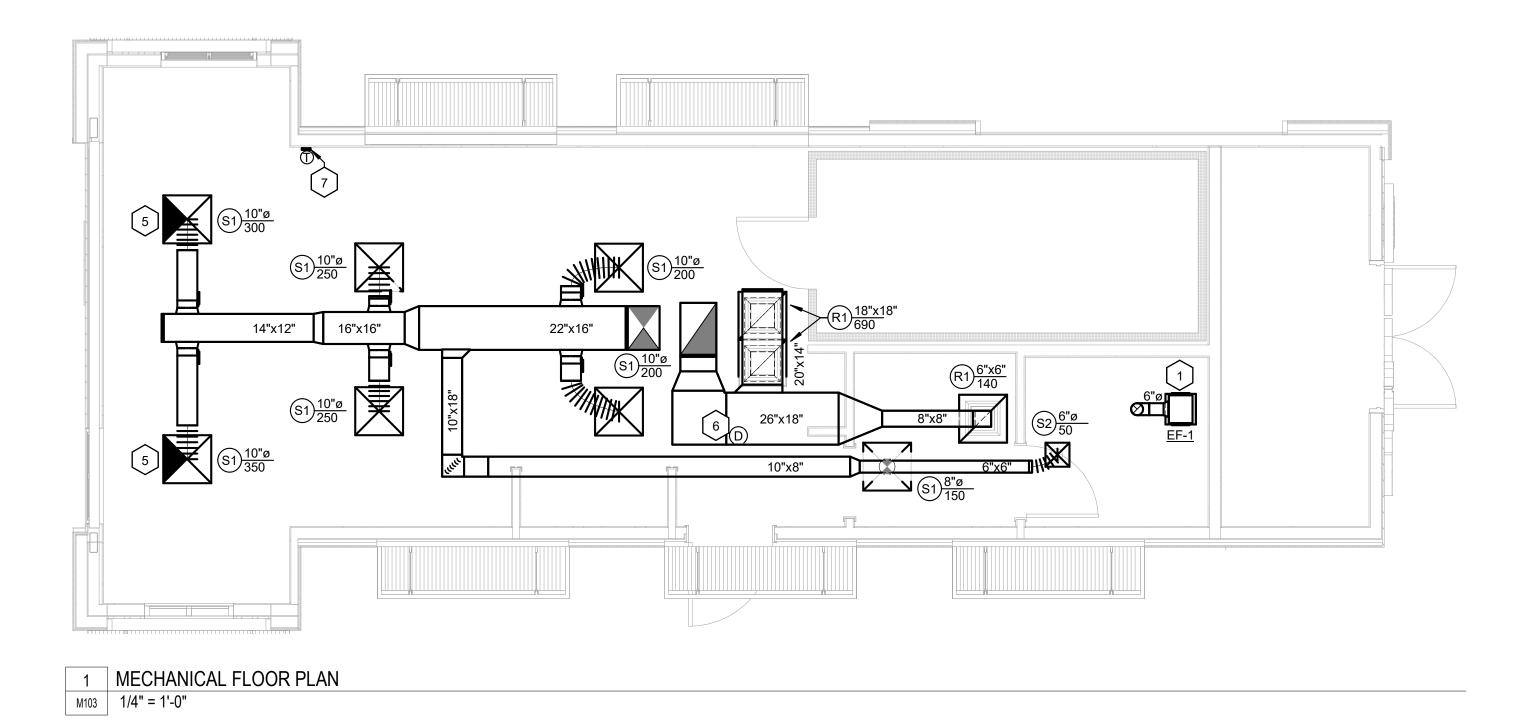
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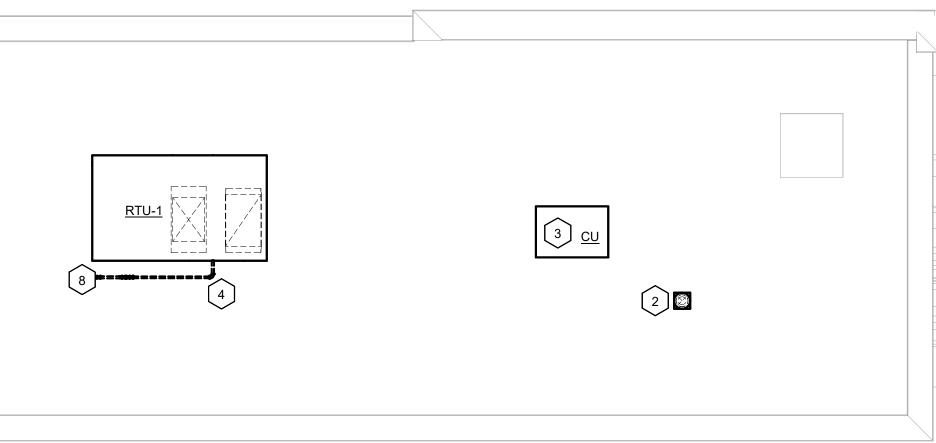
PROVIDED O.A. CFM 10 140 0 0 143.06 178.825 180

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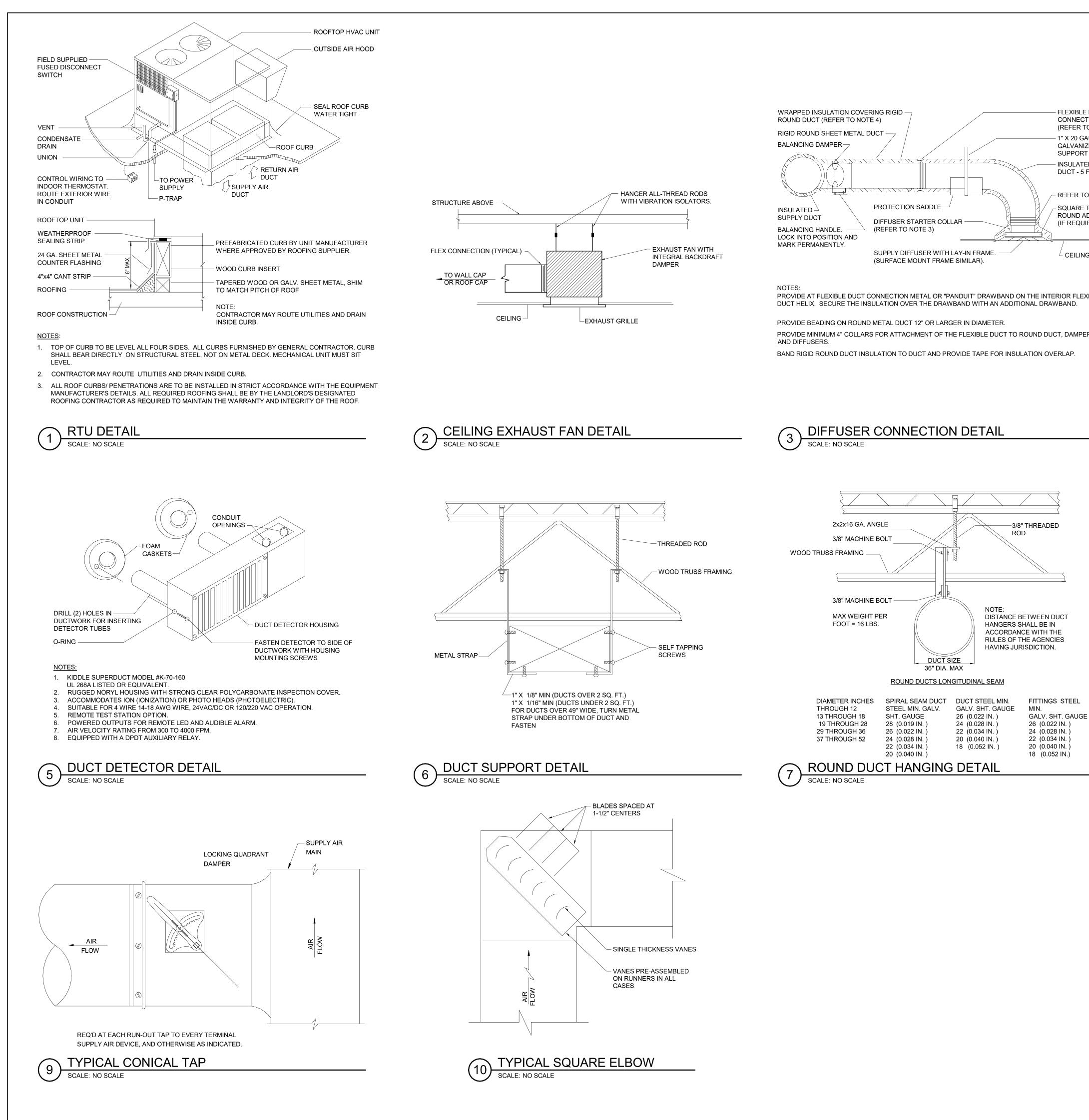


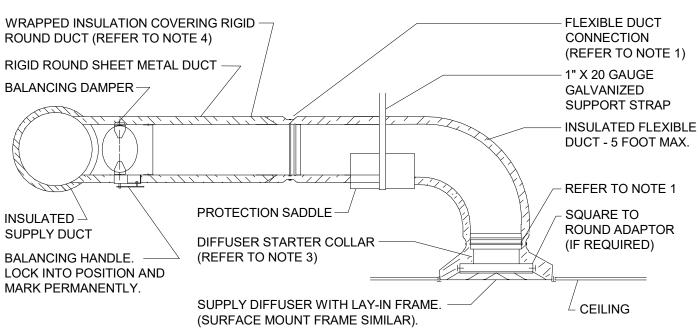


NOTES BY SYMBOL 1 PROVIDE NEW EXHAUST FAN PER SCHEDULE ON SHEET M102. SUSPEND FROM STRUCTURE. EXTEND EXHAUST DUCT UP THROUGH ROOF AND TERMINATE WITH GRAVITY VENT WITH BIRD SCREEN. ENSURE MINIMUM 10'-0" FROM ALL FRESH AIR INTAKES. 2 EXHAUST DUCT THROUGH ROOF. PROVIDE WEATHERPROOF CAP AND BIRD SCREEN. MAINTAIN MINIMUM 10'-0" FROM FRESH AIR INTAKES. 3 CONDENSING UNIT FOR WALK-IN COOLER SHOWN FOR REFERENCE ONLY. COMPLETE SYSTEM TO BE PROVIDED AND INSTALLED BY OWNER'S DESIGNATED CONTRACTOR. CONTRACTOR SHALL PROVIDE CONDENSING UNIT CURB MODEL B-LINE SINGLE TIER, PART # 18334. 4 3/4-INCH CONDENSATE CONNECTION TO RTU. REFER TO DETAIL 1/M104 FOR ADDITIONAL INFORMATION. 5 PROVIDE 3-WAY DIFFUSER THROW AS INDICATED. 6 PROVIDE 120V SMOKE DETECTOR IN RETURN AIR DUCT FOR AUTOMATIC SHUTDOWN OF UNIT. KIDDLE SUPERDUCT MODEL# K-70-160. INSTALL HVAC DUCT DETECTOR AUDIBLE/VISUAL ALARMS AND TROUBLE LIGHTS PER IMC 606.4. 7 PROVIDE NEW THERMOSTAT AS INDICATED ON PLAN. MOUNT THERMOSTAT AT 48" AFF VERIFY LOCATION WITH ARCHITECT PRIOR TO ROUGH-IN. NOTIFY EOR IF LOCATION IS CHANGED PRIOR TO INSTALL. 8 CONDENSATE PIPE DOWN THROUGH ROOF TO MOP SINK. DISCHARGE CONDENSATE AT MOP SINK VIA AIR GAP. SEE MECHANICAL FLOOR PLAN FOR ROUTING.

S  $\square$ Ō MO 64086 PROPOSED CHIPMAN RO PROTOTYPE VERSION V2-B UMMIT, MN 610 S EE'S GEMINI
 ENGINEERING GROUP CLAYTON LUCAS NUMBER 入 の 、 PE 2024000504 / A 05/30/2024 **REVISION SET** CONTRACTOR SHALL VERIFY ALL CONDITIONS AND DIMENSIONS AT THE JOB SITE AND NOTIFY THE ARCHITECT OF ANY DIMENSIONAL ERRORS, OMISSIONS OR DISCREPANCIES BEFORE BEGINNING OR FABRICATING ANY WORK. DO NOT SCALE DRAWINGS. ISSUE DATE DESCRIPTION PROJECT INFORMATION PROJECT NO: 24-0087 ORIGINAL ISSUE: 09/06/2022 AS NOTED SCALE: DRAWN BY: JB CHECKED BY: CL SHEET TITLE MECHANICAL FLOOR PLANS SHEET NUMBER M103

RELEASED FOR CONSTRUCTION As Noted on Plans Review velopment Services Depart Lee's Summit, Missour 07/03/2024

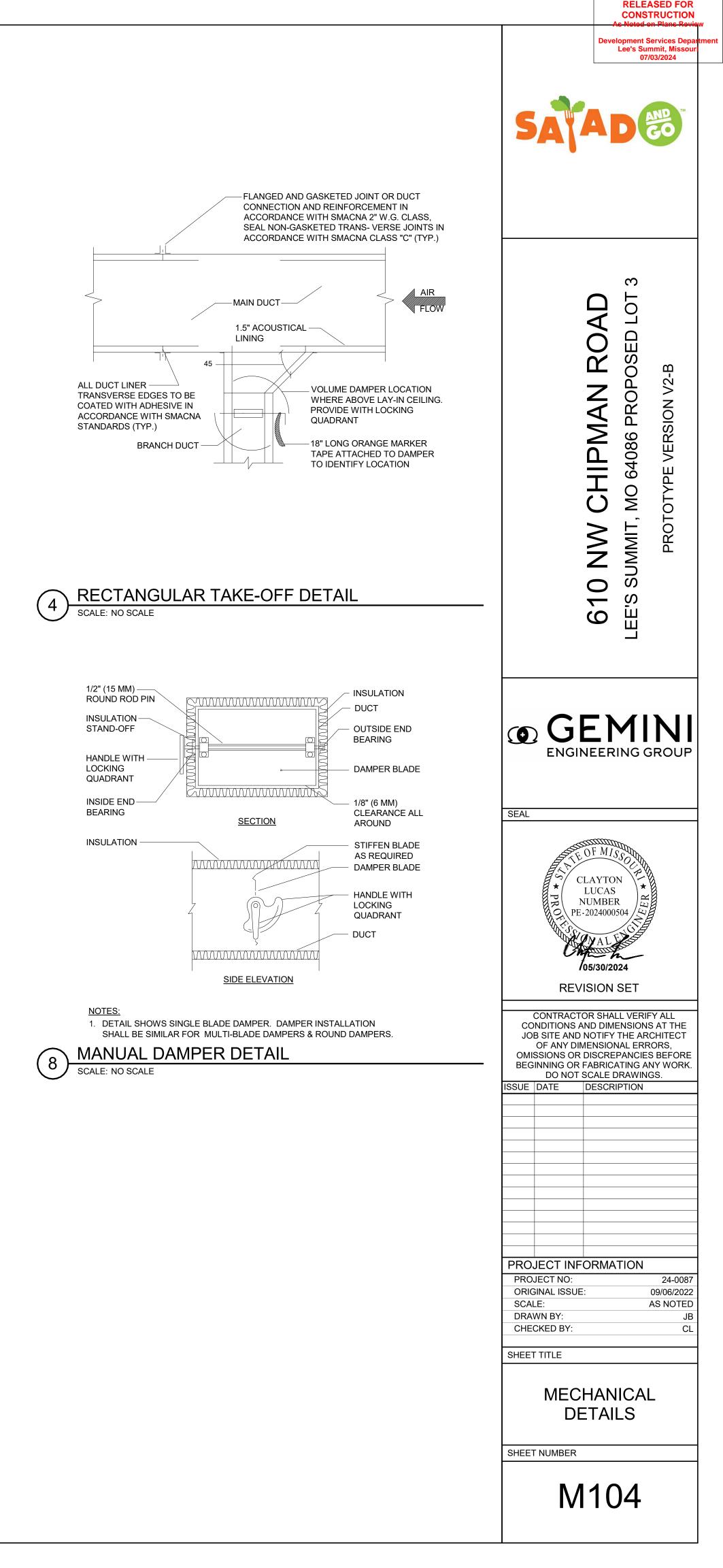




PROVIDE AT FLEXIBLE DUCT CONNECTION METAL OR "PANDUIT" DRAWBAND ON THE INTERIOR FLEXIBLE DUCT HELIX. SECURE THE INSULATION OVER THE DRAWBAND WITH AN ADDITIONAL DRAWBAND.

PROVIDE MINIMUM 4" COLLARS FOR ATTACHMENT OF THE FLEXIBLE DUCT TO ROUND DUCT. DAMPERS

BAND RIGID ROUND DUCT INSULATION TO DUCT AND PROVIDE TAPE FOR INSULATION OVERLAP.



### **DIVISION 15010 - BASIC MECHANICAL REQUIREMENTS**

SECTION 1 - SUPPLEMENTARY CONDITIONS FOR MECHANICAL WORK

1.1.1 GENERAL CONDITIONS ALL WORK COVERED BY THIS SECTION OF THESE SPECIFICATIONS SHALL BE ACCOMPLISHED IN ACCORDANCE WITH THE RESPECTIVE DRAWINGS, INFORMATION OF INSTRUCTIONS TO BIDDERS, GENERAL REQUIREMENTS AND THE SUPPLEMENTARY GENERAL CONDITIONS OF THESE SPECIFICATIONS.

B. BIDDERS SHALL DETERMINE THE CONTENTS OF A COMPLETE SET OF DRAWINGS AND SPECIFICATIONS AND BE AWARE THAT THEY MAY BE BIDDING FROM A PARTIAL SET OF DRAWINGS, APPLICABLE ONLY TO THE VARIOUS SEPARATE CONTRACT. SUBCONTRACTS OR TRADES AS MAY BE ISSUED FOR BIDDING PURPOSES ONLY. THE CONTRACT DOCUMENTS ARE THE COMBINED ARCHITECTURAL, STRUCTURAL, PLUMBING, HEATING, VENTILATING AND AIR CONDITIONING AND ELECTRICAL DRAWINGS AND SPECIFICATIONS. ALL DRAWINGS AND SPECIFICATIONS ARE ON FILE IN THE ARCHITECT'S OFFICE, AND EACH BIDDER SHALL THOROUGHLY ACQUAINT HIMSELF WITH ALL OF THE DETAILS OF THE COMPLETE SET OF DRAWINGS AND SPECIFICATIONS BEFORE SUBMITTING HIS BID. ALL DRAWINGS AND SPECIFICATIONS FORM A PART OF THE CONTRACT DOCUMENTS FOR EACH SEPARATE CONTRACT. THEY SHALL BE CONSIDERED AS BOUND THEREWITH IN THE EVENT PARTIAL SETS OF PLANS AND SPECIFICATIONS SHALL BE DEEMED EVIDENCE OF THE REVIEW AND EXAMINATION OF ALL DRAWINGS, SPECIFICATIONS AND ADDENDA ISSUED FOR THIS PROJECT. NO ALLOWANCES WILL BE MADE BECAUSE OF THE CONTRACTOR'S UNFAMILIARITY WITH ANY PORTION OF THE COMPLETE SET OF DOCUMENTS.

C. ALL EQUIPMENT AND MATERIALS SHALL BE MANUFACTURED IN THE UNITED STATES OF AMERICA. 1.1.2 SCOPE

A. THE WORK INCLUDED UNDER THIS SPECIFICATION CONSISTS OF THE FURNISHING OF ALL LABOR, MATERIALS, TOOLS, TRANSPORTATION, SERVICES, ETC. WHICH ARE APPLICABLE AND NECESSARY TO COMPLETE THE INSTALLATION OF THE SYSTEMS SPECIFIED HEREIN; ALL AS DESCRIBED IN THESE SPECIFICATIONS, AS ILLUSTRATED ON THE ACCOMPANYING DRAWINGS, OR AS DIRECTED BY THE ARCHITECT.

B. IN GENERAL, THE VARIOUS LINES AND DUCTS TO BE INSTALLED BY THE VARIOUS TRADES UNDER THIS SPECIFICATION SHALL BE RUN AS INDICATED, AS SPECIFIED HEREIN, AS REQUIRED BY PARTICULAR CONDITIONS AT THE SITE AND AS REQUIRED TO CONFORM TO THE GENERALLY ACCEPTED STANDARDS SO AS TO COMPLETE THE WORK IN A NEAT AND SATISFACTORILY WORKABLE MANNER. RUN WORK PARALLEL OR PERPENDICULAR TO THE LINES OF THE BUILDING UNLESS OTHERWISE NOTED.

C. THE CONSTRUCTION DETAILS FOR THE BUILDING ARE ILLUSTRATED ON THE ARCHITECTURAL AND STRUCTURAL DRAWINGS. EACH CONTRACTOR SHALL THOROUGHLY ACQUAINT HIMSELF WITH THE DETAILS BEFORE SUBMITTING HIS BID, AS NO ALLOWANCE WILL BE MADE BECAUSE OF THE CONTRACTOR'S UNFAMILIARITY WITH THESE DETAILS. PLACE ALL INSERTS TO ACCOMMODATE THE ULTIMATE INSTALLATION OF PIPE HANGERS IN THE FORMS BEFORE CONCRETE IS POURED. SET SLEEVES IN PLACE IN FORMS BEFORE CONCRETE IS POURED, AND IN MASONRY WALLS WHILE THEY ARE UNDER CONSTRUCTION. ALL CONCEALED LINES SHALL BE INSTALLED AS REQUIRED BY THE PACE OF THE GENERAL CONSTRUCTION TO PRECEDE THAT GENERAL CONSTRUCTION.

1.1.3 INSPECTION OF SITE A. THE CONTRACTORS SHALL VISIT THE SITE, VERIFY ALL EXISTING ITEMS SHOWN ON PLANS OR SPECIFIED HEREIN, AND FAMILIARIZE HIMSELF WITH THE WORKING CONDITIONS, HAZARDS, EXISTING GRADES, ACTUAL FORMATIONS, SOIL CONDITIONS, AND LOCAL\_REQUIREMENTS INVOLVED, AND SUBMISSION OF BIDS SHALL BE DEEMED EVIDENCE OF SUCH VISIT. ALL PROPOSALS SHALL TAKE THE EXISTING CONDITIONS INTO CONSIDERATION, AND THE LACK OF SPECIFIC INFORMATION ON THE DRAWINGS SHALL NOT RELIEVE THE CONTRACTOR OF ANY RESPONSIBILITY.

1.1.4 UTILITIES, LOCATIONS AND ELEVATIONS A. LOCATIONS AND ELEVATIONS OF THE VARIOUS UTILITIES INCLUDED WITHIN THE SCOPE OF THIS WORK HAVE BEEN OBTAINED FROM CITY AND/OR OTHER SUBSTANTIALLY RELIABLE SOURCES AND ARE OFFERED SEPARATELY FROM THE CONTRACT DOCUMENTS, AS A GENERAL GUIDE ONLY, WITHOUT GUARANTEE AS TO ACCURACY. THE CONTRACTOR SHALL EXAMINE THE SITE, SHALL VERIFY TO THEIR OWN SATISFACTION THE LOCATIONS, ELEVATIONS AND AVAILABILITY OF ALL UTILITIES AND SERVICES REQUIRED AND SHALL ADEQUATELY INFORM THEMSELVES AS TO THEIR RELATION TO THE WORK; THE SUBMISSION OF BIDS SHALL BE DEEMED EVIDENCE THEREOF. 1.1.5 CODE REQUIREMENTS

A. ALL WORK SHALL COMPLY WITH THE PROVISIONS OF THESE SPECIFICATIONS, AS ILLUSTRATED ON THE ACCOMPANYING DRAWINGS, OR AS DIRECTED BY THE ARCHITECT, AND SHALL SATISFY ALL APPLICABLE LOCAL CODES, ORDINANCES, OR REGULATIONS OF THE GOVERNING BODIES, AND ALL AUTHORITIES HAVING JURISDICTION OVER THE WORK, OR SERVICES THERETO. IN ALL CASES WHERE ALTERATIONS TO, OR DEVIATIONS FROM THE DRAWINGS AND SPECIFICATIONS ARE REQUIRED BY THE AUTHORITY HAVING JURISDICTION, THE CONTRACTOR SHALL REPORT SAME IN WRITING TO THE OWNER AND SECURE HIS APPROVAL BEFORE PROCEEDING. UPON COMPLETION OF THE WORK, THE CONTRACTOR SHALL PROVIDE COMPLETE UTILITY SERVICE CONNECTIONS, AS DIRECTED, AND SUBMIT, AS REQUIRED, ALL NECESSARY DRAWINGS; HE SHALL SECURE ALL PERMITS AND INSPECTIONS NECESSARY IN CONNECTION WITH HIS WORK AND PAY ALL LEGAL FEES ON ACCOUNT THEREOF. IN THE ABSENCE OF OTHER APPLICABLE LOCAL CODES ACCEPTABLE TO THE ARCHITECT, THE NATIONAL ELECTRICAL CODE AND INTERNATIONAL PLUMBING CODE SHALL APPLY TO THIS WORK.

1.1.6 RECORDS FOR THE OWNER A. THE CONTRACTOR SHALL OBTAIN AT HIS OWN EXPENSE A COMPLETE, FULL-SIZE SET OF PRINTS ON WHICH HE SHALL KEEP AN ACCURATE RECORD OF THE INSTALLATION OF ALL MATERIALS AND SYSTEMS COVERED BY HIS CONTRACTUAL AGREEMENT. THE RECORD SHALL INDICATE THE LOCATION OF ALL EQUIPMENT AND THE ROUTING OF ALL SYSTEMS. ALL CONDUIT BURIED IN CONCRETE SLABS, WALLS, AND BELOW GRADE SHALL BE LOCATED BY DIMENSION UNLESS A SURFACE MOUNTED DEVICE IN EACH SPACE INDICATES THE EXACT LOCATION. HE SHALL THEN OBTAIN AT HIS EXPENSE ONE COMPLETE REPRODUCIBLE SET OF THE ORIGINAL DRAWINGS ON WHICH HE SHALL NEATLY TRANSFER HIS NOTATIONS AND DELIVER THESE DRAWINGS TO THE ENGINEER AT JOB COMPLETION BEFORE THE FINAL PAYMENT FOR DELIVERY TO THE OWNER. B. IN ADDITION TO THE ABOVE, THE CONTRACTOR SHALL ACCUMULATE DURING THE JOB PROGRESS THE FOLLOWING DATA IN DUPLICATE PREPARED IN A NEAT BROCHURE OR PACKET FOLDER BONDING FOR SUBSEQUENT DELIVERY TO THE OWNER. THE CONTRACTOR SHALL INCLUDE IN HIS BID THE COST OF BINDING INTO A BOOK: ALL WARRANTIES, GUARANTEE, AND MANUFACTURER'S DIRECTIONS ON EQUIPMENT AND

MATERIAL COVERED BY THE CONTRACT. COPIES OF APPROVED SHOP DRAWINGS AND SUBMITTALS.

COPIES OF SEQUENCE OF OPERATIONS FOR ALL EQUIPMENT COVERED BY CONTRACT. 1.1.7 MATERIALS AND WORKMANSHIP A. ALL MATERIALS, UNLESS OTHERWISE SPECIFIED, SHALL BE NEW, FREE FROM ANY DEFECTS AND

OF THE BEST QUALITY OF THEIR RESPECTIVE KINDS. ALL LIKE MATERIALS USED SHALL BE OF THE SAME MANUFACTURER, MODEL AND QUALITY, UNLESS OTHERWISE SPECIFIED. B. ALL MANUFACTURED ARTICLES, MATERIALS AND EQUIPMENT SHALL BE APPLIED, INSTALLED,

CONNECTED, ERECTED, USED, CLEANED, ADJUSTED AND CONDITIONED AS RECOMMENDED BY THE MANUFACTURERS, OR ALL INDICATED IN THEIR PUBLISHED LITERATURE, UNLESS SPECIFICALLY HEREIN SPECIFIED TO THE CONTRARY. ALL WORK UNDER THIS CONTRACT SHALL BE PERFORMED BY COMPETENT WORKMEN AND EXECUTED IN A NEAT AND WORKMANLIKE MANNER PROVIDING A THOROUGH AND COMPLETE INSTALLATION. WORK SHALL BE PROPERLY PROTECTED DURING CONSTRUCTION, INCLUDING THE SHIELDING OF SOFT OR FRAGILE MATERIALS AND THE TEMPORARY PLUGGING OF OPEN LINES DURING CONSTRUCTION. AT COMPLETION, THE INSTALLATION SHALL BE THOROUGHLY CLEANED, AND ALL TOOLS, EQUIPMENT, OBSTRUCTION OR DEBRIS PRESENT AS A RESULT OF THIS CONTRACT SHALL BE REMOVED FROM THE PREMISES. 1.1.8 STORAGE AND PROTECTION

A. PROVIDE ADEQUATE FACILITIES FOR ITEMS FURNISHED UNDER THESE SPECIFICATIONS WHICH ARE SUBJECT TO DAMAGE IF EXPOSED TO ELEMENTS. TAKE SUCH PRECAUTIONS AS NECESSARY TO PROPERLY PROTECT APPARATUS FROM DAMAGE. FAILURE TO COMPLY WITH THIS PROVISION WILL BE SUFFICIENT CAUSE FOR REJECTION OF THE PARTICULAR APPARATUS INVOLVED. 1.1.9 COOPERATION

A. ALL WORK UNDER THESE SPECIFICATIONS SHALL BE ACCOMPLISHED IN CONJUNCTION WITH OTHER TRADES ON THIS PROJECT IN A MANNER WHICH WILL ALLOW EACH TRADE ADEQUATE TIME AT THE PROPER STAGE OF CONSTRUCTION TO FULFILL HIS WORK.

B. MAINTAINING CONTACT AND BEING FAMILIAR WITH THE PROGRESS OF THE GENERAL CONSTRUCTION AND THE TIMELY INSTALLATION OF SLEEVES AND INSERTS, ETC., BEFORE CONCRETE IS PLACED SHALL BE THE RESPONSIBILITY OF THIS TRADE, AS WILL THE INSTALLATION OF THE REQUIRED SYSTEMS IN THEIR SEVERAL STAGES, AT THE PROPER TIME TO EXPEDITE THIS CONTRACT AND AVOID UNNECESSARY DELAYS IN THE PROGRESS OF OTHER CONTRACTS, AND MEET ALL REQUIREMENTS OF PROGRESS SCHEDULES SET UP BY THE ARCHITECT. C. SHOULD ANY QUESTION ARISE BETWEEN TRADES AS TO THE PLACING OF LINES, DUCTS, CONDUITS. FIXTURES OR EQUIPMENT, OR SHOULD IT APPEAR DESIRABLE TO REMOVE ANY GENERAL CONSTRUCTION WHICH WOULD AFFECT THE APPEARANCE OR STRENGTH OF THE STRUCTURE, REFERENCE SHALL BE MADE TO THE ARCHITECT FOR INSTRUCTION.

1.1.10 SCHEDULE OF MATERIAL AND EQUIPMENT THE CONTRACTOR SHALL SUBMIT FOR APPROVAL A COMPLETE SCHEDULE OF MATERIAL AND EQUIPMENT WHICH IS TO BE INSTALLED UNDER THE CONTRACT. THE SCHEDULE SHALL BE SUBMITTED WITHIN 30 DAYS AFTER THE AWARD OF THIS CONTRACT AND PRIOR TO THE INSTALLATION OR FABRICATION OF ANY OF THE MATERIAL INVOLVED. THE SCHEDULE SHALL INCLUDE FOR MATERIALS THE MANUFACTURER'S NAME, CATALOG NUMBER, TYPE AND TRADE NAME; IN ADDITION, FOR EQUIPMENT, ATTACH MANUFACTURER'S ENGINEERING DATA AND SPECIFICATION SHEET. 1.1.11 SHOP DRAWINGS AND SUBMITTALS

EQUIPMENT AND LAYOUT:

DUCTWORK FABRICATION DETAILS AND LAYOUT AT 1/8" = 1'-0" SCALE. MECHANICAL EQUIPMENT CUT SHEETS INCLUDING ALL PERFORMANCE CHARACTERISTICS, ACCESSORIES, DRAWINGS, WIRING DIAGRAMS, ETC. ACCESSORIES SHALL BE CLEARLY LABELED TO SHOW WHAT IS AND IS NOT PROVIDED. PIPING DETAILS SHOWING MATERIALS USED AND JOINING/SEALING METHODS.

PIPING LAYOUT AT 1/8" = 1'-0" SCALE. EQUIPMENT SHALL NOT BE ORDERED UNTIL APPROVED BY THE ARCHITECT AND ENGINEER OF RECORD. THE CONTRACTOR SHALL ALLOW TWO (2) WEEKS FOR DESIGN TEAM

**REVIEW OF SUBMITTALS.** 1.1.12 DRAWINGS AND SPECIFICATIONS . THE DRAWINGS SHOW, DIAGRAMMATICALLY, THE LOCATIONS OF THE VARIOUS LINES, DUCTS CONDUITS, FIXTURES AND EQUIPMENT AND THE METHOD OF CONNECTING AND CONTROLLING THEM. IT IS NOT INTENDED TO SHOW EVERY CONNECTION IN DETAIL AND ALL FITTINGS REQUIRED FOR A COMPLETE SYSTEM. THE SYSTEMS SHALL INCLUDE, BUT ARE NOT LIMITED TO, THE ITEMS SHOWN ON THE DRAWINGS. EXACT LOCATIONS OF THESE ITEMS SHALL BE DETERMINED BY REFERENCE TO THE GENERAL PLANS AND MEASUREMENTS AT THE BUILDING AND IN COOPERATION WITH OTHER SUB-CONTRACTORS AND, IN ALL CASES, SHALL BE SUBJECT TO THE APPROVAL OF THE CONTRACTOR. THE CONTRACTOR RESERVES THE RIGHT TO MAKE ANY REASONABLE CHANGE IN THE LOCATION OF ANY PART OF THIS WORK WITHOUT ADDITIONAL COST TO THE OWNER.

PROPER CHANGES EFFECTED WITHOUT ANY ADDITIONAL COST 1.1.13 ARCHITECT'S APPROVAL PERFORMING ALL WORK AS REQUIRED BY THE DRAWINGS AND SPECIFICATIONS. 1.1.14 LOCAL RESTRICTIONS

1.1.15 ELECTRICAL WIRING A. EXCEPT FOR SUCH ITEMS AS ARE NORMALLY WIRED UP AT THEIR POINT OF MANUFACTURE AND SO DELIVERED, AND UNLESS SPECIFICALLY NOTED TO THE CONTRARY HEREIN, THE ELECTRICAL SUBCONTRACTOR WILL DO ALL ELECTRIC WIRING OF EVERY CHARACTER FOR POWER SUPPLY. THE MECHANICAL SUBCONTRACTOR SHALL ERECT ALL MOTORS IN PLACE READY FOR CONNECTIONS AND SHALL FURNISH WITH EACH SUCH MOTOR A STARTER OF THE TYPE SPECIFIED AND DELIVER IT IN GOOD CONDITION TO THE ELECTRICAL SUBCONTRACTOR AT THE JOB. THE ELECTRICAL SUBCONTRACTOR WILL MOUNT ALL SUCH STARTERS, AS DIRECTED, FURNISHING SUPPORTING STRUCTURES WHERE NECESSARY. THE OWNER AND OTHER SUBCONTRACTORS SHALL FURNISH WITH EACH ITEM REQUIRING ELECTRICAL CONNECTIONS, THE NECESSARY INSTRUCTIONS AND WIRING DIAGRAMS TO THE ELECTRICAL SUBCONTRACTOR. THE ELECTRICAL SUBCONTRACTOR SHALL REFER TO THE SPECIFICATIONS TO DETERMINE THE SCOPE OF THE WORK.

1.1.16 LARGE APPARATUS AND EQUIPMENT A. ALL LARGE APPARATUS AND EQUIPMENT WHICH IS SPECIFIED OR SHOWN TO BE FURNISHED OR INSTALLED UNDER THIS CONTRACT, AND WHICH MAY BE TOO LARGE TO BE MOVED INTO ITS FINAL POSITION THROUGH THE NORMAL BUILDING OPENINGS PLANNED, SHALL BE PLACED BY THIS SUBCONTRACTOR IN ITS APPROXIMATE FINAL POSITION. THIS SHALL BE ACCOMPLISHED THROUGH COOPERATION AND COORDINATION WITH OTHER SUBCONTRACTORS BEFORE ANY OBSTRUCTING STRUCTURE IS INSTALLED. ALL APPARATUS SHALL BE CRIBBED UP FROM THE FLOOR BY THIS SUBCONTRACTOR AND CARED FOR AS SPECIFIED UNDER "STORAGE AND PROTECTION" OR AS DIRECTED BY THE ARCHITECT. 1 1 17 RESPONSIBILITY

A. THE CONTRACTOR WILL BE HELD RESPONSIBLE FOR THE SATISFACTORY AND COMPLETE EXECUTION OF ALL WORK INCLUDED. HE SHALL PRODUCE COMPLETE FINISHED OPERATING SYSTEMS AND PROVIDE ALL INCIDENTAL ITEMS REQUIRED AS PART OF HIS WORK, REGARDLESS OF WHETHER SUCH ITEM IS PARTICULARLY SPECIFIED OR INDICATED. 1.1.18 CLEAN UP

A. CLEAN UP TRASH AND DEBRIS CAUSED BY THE WORK OF THIS SECTION, KEEPING PREMISES, STREETS, SIDEWALKS AND ADJACENT AREAS CLEAN AND NEAT AT ALL TIMES. B. DISPOSE OF SUCH MATERIALS OUTSIDE THE LIMITS OF THE PROJECT SITE TO APPROVED LOCATIONS. 1.1.19 PAINTING A. UPON COMPLETION, CLEAN ALL PIPES AND EQUIPMENT BEFORE PAINTING. PAINTING OF

MECHANICAL EQUIPMENT AND PIPING IS SPECIFIED IN ARCHITECTURAL PAINTING SECTION. 1.1.20 ACCESS DOORS A. ACCESS DOORS ARE TO BE PROVIDED BY THE CONTRACTOR. CONTRACTOR WILL CLOSELY COORDINATE LOCATIONS OF VALVES, ETC. IN ORDER TO HAVE ACCESS TO ALL CONCEALED PORTIONS OF THE SYSTEM REQUIRING PERIODIC SERVICE. PREPARE SHOP DRAWINGS FOR COORDINATION OF ALL ACCESS DOORS, LOCATING SAME FOR INSTALLATION BY GENERAL CONTRACTOR. ACCESS DOOR LOCATIONS SHALL BE APPROVED BY ARCHITECT OR OWNER BEFORE INSTALLATION.

1.1.21 EXCAVATION AND BACKFILLING PROVIDE NECESSARY EXCAVATING AND BACKFILLING FOR THE INSTALLATION OF WORK SPECIFIED IN THIS DIVISION. TRENCHES FOR UNDERGROUND PIPING AND CONDUIT SHALL BE EXCAVATED TO REQUIRED DEPTHS WITH BELL HOLES PROVIDED AS NECESSARY TO INSURE UNIFORM BEARING. ARE SHOULD BE TAKEN NOT TO EXCAVATE BELOW DEPTH, AND ANY EXCAVATION BELOW DEPTH SHALL BE REFILLED WITH SAND OR GRAVEL FIRMLY COMPACTED. WHERE ROCK OR HARD OBJECTS ARE ENCOUNTERED, THEY SHALL BE EXCAVATED TO A GRADE SIX INCHES (6") BELOW THE LOWERMOST PART OF THE PIPE AND REFILLED TO THE PIPE GRADE AS SPECIFIED. AFTER THE PIPE HAS BEEN INSTALLED, TESTED AND APPROVED, THE TRENCHES SHALL BE BACKFILLED IN GRADE WITH APPROVED MATERIAL, WELL TAMPED OR PUDDLED COMPACTLY IN PLACE. DO NOT PROCEED WITH BACKFILL OPERATIONS UNTIL THE ARCHITECT OR CONTRACTOR HAS INSPECTED PIPING. ALL PIPING OUTSIDE THE BUILDING SHALL BE INSTALLED BELOW THE FROST LINE. WHERE STREETS, SIDEWALKS, ETC. ARE DISTURBED, CUT OR DAMAGED BY THIS WORK, THE EXPENSE OF REPAIRING SAME IN A MANNER APPROVED BY THE ARCHITECT SHALL BE A PART OF THIS CONTRACT.

PROVIDE SUBMITTALS AND SHOP DRAWINGS (3 COPIES MINIMUM) FOR THE FOLLOWING

B. SHOULD ANY CHANGES BE DEEMED NECESSARY BY THE CONTRACTOR IN ITEMS SHOWN ON THE CONTRACT DRAWINGS, SHOP DRAWINGS AND DESCRIPTIONS, THE REASON FOR THE PROPOSED CHANGES SHALL BE SUBMITTED TO THE OWNER FOR APPROVAL C. EXCEPTIONS AND INCONSISTENCIES IN PLANS AND SPECIFICATIONS SHALL BE BROUGHT TO THE CONTRACTOR'S ATTENTION BEFORE BIDS ARE SUBMITTED; OTHERWISE, THE CONTRACTOR

SHALL BE RESPONSIBLE FOR THE COST OF ANY AND ALL CHANGES AND ADDITIONS THAT MAY BE NECESSARY TO ACCOMMODATE HIS PARTICULAR APPARATUS. D. THE CONTRACTOR SHALL LAY OUT HIS WORK MAINTAINING ALL LINES, GRADES AND

DIMENSIONS ACCORDING TO THESE DRAWINGS WITH DUE CONSIDERATION FOR OTHER TRADES AND VERIFY ALL DIMENSIONS AT THE SITE PRIOR TO ANY FABRICATION OR INSTALLATION. SHOULD THE LAYOUT BE IMPRACTICAL. THE CONTRACTOR SHALL BE NOTIFIED BEFORE ANY INSTALLATION OR FABRICATION, AND THE EXISTING CONDITIONS SHALL BE INVESTIGATED AND

E. TITLES OF SECTIONS AND PARAGRAPHS IN THESE SPECIFICATIONS ARE INTRODUCED MERELY FOR CONVENIENCE AND ARE NOT TO BE CONSTRUED AS A CORRECT OR COMPLETE SEGREGATION TO TABULATION OF THE VARIOUS UNITS OF MATERIAL AND/OR WORK. THE ARCHITECT DOES NOT ASSUME ANY RESPONSIBILITY, EITHER DIRECT OR IMPLIED, FOR OMISSIONS OR DUPLICATIONS BY THE CONTRACTOR OR ANY SUB-CONTRACTOR DUE TO REAL OR ALLEGED ERROR IN THE ARRANGEMENT OF MATTER IN THE CONTRACT DOCUMENTS.

A. IN ANY STATEMENT UNDER THIS CONTRACT WHERE "APPROVAL" IS REQUIRED OR REQUESTED, IT IS UNDERSTOOD THAT SUCH APPROVAL MUST BE OBTAINED FROM THE ARCHITECT IN WRITING BEFORE PROCEEDING WITH THE PROPOSAL, AND AN ADEQUATE NUMBER OF COPIES OF ANY SUCH PROPOSAL SHALL BE SUBMITTED TO THE ARCHITECT. B. THE APPROVAL BY THE ARCHITECT OF ANY MATERIALS, CHANGES, DRAWINGS, ETC. SUBMITTED BY THE CONTRACTOR WILL BE CONSIDERED AS GENERAL ONLY AND TO AID THE CONTRACTOR IN EXPEDITING HIS WORK. SUCH APPROVAL AS MAY BE GIVEN DOES NOT IN ANY WAY RELIEVE THE CONTRACTOR FROM THE NECESSITY OF FURNISHING THE MATERIALS AND

A. THE CONTRACTOR SHALL BECOME FAMILIAR WITH ALL RULES AND REGULATIONS OF THE CITY, COUNTY AND STATE, OR ANY OTHER AUTHORITY HAVING JURISDICTION OVER THIS PROJECT. IF IT IS THE CONTRACTOR'S OPINION THAT ANY WORK OR MATERIALS SHOWN ON THE DRAWINGS OR SPECIFICATIONS DO NOT COMPLY WITH THESE RULES AND REGULATIONS AS TO SIZE, TYPE, CAPACITY AND QUALITY, HE MUST MAKE IT KNOWN PRIOR TO THE SUBMISSION OF HIS BID, WHICH SHALL BE DEEMED EVIDENCE OF COMPLIANCE; OTHERWISE, THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE APPROVAL OF ALL WORK OR MATERIAL AND, IN THE EVENT THAT SUCH AUTHORITY SHOULD INDICATE DISAPPROVAL, HE SHALL CORRECT SAME WITH MATERIALS APPROVED BY THE ARCHITECT AT NO ADDITIONAL COST TO THE OWNER.

1.1.22 SLEEVES AND ESCUTCHEONS

ALL PIPING OTHER THAN SANITARY SEWER LINES AND PVC OR POLYBUTAL PASSING THROUGH CONCRETE FLOOR SLABS SHALL BE COMPLETELY ISOLATED IN 1/2" THICK FLEXIBLE FOAM PLASTIC INSULATION FROM 6" BELOW THE SLAB TO 2" ABOVE THE SLAB. IF PIPES PASS THROUGH GRADE BEAMS, THE INSULATION THICKNESS SHALL BE 3/8". SANITARY SEWER LINES PASSING GRADE BEAMS SHALL BE WRAPPED WITH TWO (2) PLY OF 15#Q FELT TO ISOLATE THE PIPE FROM THE CONCRETE.

ESCUTCHEONS EXCEPT AS SPECIFICALLY NOTED OR SPECIFIED SHALL BE INSTALLED ON ALL PIPES PASSING EXPOSED THROUGH THE FLOORS, WALLS OR CEILINGS. ESCUTCHEONS SHALL BE CHROME PLATED SECTIONAL FLOOR AND CEILING PLATES AND SHALL FIT SNUGLY AND NEATLY AROUND PIPE OR PIPE INSULATION OR INSULATED LINES. SOLID CHROME PLATES WITH SETSCREWS SHALL BE USED IF SECTIONAL PLATES DO NOT FIT PROPERLY OR STAY IN PLACE. 1.1.23 FLASHINGS

FLASH AROUND ALL PIPES PASSING THROUGH THE ROOF IN CONNECTION WITH THIS CONTRACT WITH STANDARD MANUFACTURED FLASHINGS. FLASHINGS SHALL BE SHEET METAL WITH RUBBER GASKETS. FLASHINGS SHALL EXTEND INTO ROOFING AND UP PIPE DISTANCES IN ACCORDANCE WITH THE LOCAL CODE. 1.1.24 EXPANSION OF PIPING

THIS SUBCONTRACTOR SHALL FURNISH AND INSTALL ALL DEVICES REQUIRED TO PERMIT THE EXPANSION AND CONTRACTION OF ALL PIPE WORK INSTALLED PARTICULARLY IN WATER SUPPLY AND CIRCULATING SYSTEMS. IN THE MAIN WATER AND CIRCULATING LINES, HE SHALL EMPLOY EXPANSION JOINTS AS REQUIRED OR WHERE DIRECTED

SHOULD THE INSTALLATION OF MECHANICAL EXPANSION JOINTS BECOME NECESSARY IN THE OPINION OF THE ARCHITECT, JOINTS 1-1/2" AND SMALLER SHALL BE FULTON SYLPHON NO. 111 PACKLESS EXPANSION JOINTS. JOINTS ON 2" AND LARGER LINES SHALL BE ADSCO, FLEXONES OR TUBE TURN, BELLOWS TYPE EXPANSION JOINTS WITH THE PROPER NUMBER OF BELLOWS SECTIONS OF STAINLESS STEEL

ANCHOR ALL LINES HAVING EXPANSION JOINTS SO THAT EXPANSION AND CONTRACTION EFFECT IS EQUALLY DISTRIBUTED. VERIFY EXACT LOCATIONS OF ANCHORS WITH THE ARCHITECT PRIOR TO MAKING INSTALLATION. THE LINES HAVING EXPANSION JOINTS SHALL BE ACCURATELY GUIDED ON BOTH SIDES OF EACH JOINT. THESE GUIDES SHALL CONSIST OF SADDLES AND "E" CLAMPS PROPERLY ARRANGED AND SUPPORTED. SUBMIT COMPLETE DETAILS FOR APPROVAL 1.1.25 FLAME SPREAD PROPERTIES OF MATERIALS

ALL MATERIALS AND ADHESIVES USED FOR ACOUSTICAL LININGS AND INSULATION, JACKETS, TAPES, ETC. SHALL CONFORM TO INTERIM FEDERAL STANDARD FLAME-SPREAD PROPERTIES OF MATERIALS, INC. FED. STD. NO. 00336A (COMM. NBS). THE CLASSIFICATION SHALL NOT EXCEED NO. 2, WITH THE RANGE OF INDICES BETWEEN 0 AND 25 FOR THESE CLASSIFICATIONS AS LISTED IN THE FEDERAL SPECIFICATIONS FOR THE BASIC MATERIALS, THE FINISHES, ADHESIVES, ETC. SPECIFIED FOR EACH SYSTEM, AND SHALL BE SUCH THAT WHEN COMPLETELY ASSEMBLED THE TOTAL WILL NOT EXCEED AN INDEX OF 50 IN CLASSIFICATION 111 AS LISTED IN THE FEDERAL SPECIFICATIONS. MODIFICATIONS SHALL BE MADE TO INSULATING MATERIALS, ETC. AS REQUIRED TO COMPLY WITH THE FEDERAL SPECIFICATIONS. 1.1.26 GUARANTEE

THE CONTRACTOR SHALL FURNISH A WRITTEN GUARANTEE IN TRIPLICATE, WARRANTING ALL MATERIALS, EQUIPMENT AND LABOR FURNISHED BY HIM TO BE FREE OF ALL DEFECTS FOR A PERIOD OF ONE YEAR FROM DATE OF FINAL ACCEPTANCE BY THE OWNER. HE SHALL FURTHER GUARANTEE THAT ALL EQUIPMENT SHALL MEET THE CHARACTERISTICS, CAPACITIES AND WORKMANSHIP SPECIFIED AND WITHIN THE WARRANTY PERIOD, THE DEFECTS AND/OR EQUIPMENT WILL BE REPAIRED OR MADE GOOD WITHOUT COST TO THE OWNER. THE CONTRACTOR FURTHER AGREES TO CORRECT WARRANTY DEFICIENCIES WITHIN 48 HOURS OF

NOTIFICATION BY MANAGEMENT REFERENCE DOCUMENTS: CONDITIONS OF THE CONTRACT AND DIVISION 01 "GENERAL REQUIREMENTS" ARE MADE A PART OF THIS SECTION WHETHER ATTACHED HERETO OR NOT.

SECTION 4 - HEATING, VENTILATION AND AIR-CONDITIONING SYSTEMS

PROVIDE COMPLETE AIR SUPPLY, RETURN, OUTSIDE AIR AND EXHAUST SYSTEMS INCLUDING FANS, TERMINAL DEVICES AND OTHER COMPONENTS SPECIFIED HEREIN.

4.1.2 SUBMITTALS SHOP DRAWINGS: SUBMIT COMPLETE SHOP DRAWINGS, IN ACCORDANCE WITH SECTION 1, INDICATING MATERIALS, QUANTITIES, SIZES AND INSTALLATION DETAILS.

4.1.3 COORDINATION INSTALL MATERIALS AND EQUIPMENT AT PROPER TIME TO KEEP PACE WITH THE GENERAL CONSTRUCTION AND THE WORK OF THE OTHER TRADES INVOLVED.

<u>4.1.4 WARRANTY</u> THE MECHANICAL SUB-CONTRACTOR SHALL WARRANTY ALL MATERIAL, WORKMANSHIP AND EQUIPMENT FOR A PERIOD OF ONE YEAR AFTER FINAL ACCEPTANCE BY THE OWNER. THE WARRANTY SPECIFICALLY IMPLIES THAT ANY DEFECTIVE PORTION BECOMING APPARENT DURING THIS PERIOD WILL BE REPAIRED, REPLACED OR OTHERWISE MADE GOOD AT NO ADDITIONAL COST TO THE OWNER. IT SHALL FURTHER INCLUDE REPLACEMENT OR REFRIGERANT LOSS NOT DUE TO OWNER NEGLIGENCE. COMPRESSORS SHALL CONTAIN AN ADDITIONAL FOUR-YEAR WARRANTY.

RIGID DUCTWORK: ALL AIR CONDITIONING AND EXHAUST DUCTWORK. PLENUM, CASINGS AND SHEET METAL, CONNECTIONS SHALL BE FABRICATED OF NEW JOINT-FORMING QUALITY GALVANIZED PRIME GRADE SHEETS.

RECTANGULAR LOW PRESSURE DUCTS: CONSTRUCTED OF THE FOLLOWING MINIMUM GAUGES: OF METAL

| LARGEST DIMENSION OF DUCT | GAUGE OF METAL    |
|---------------------------|-------------------|
| UP TO 12"                 | NO. 26 U.S. GAUGE |
| 13" TO 30"                | NO. 24 U.S. GAUGE |
| 31" TO 54"                | NO. 22 U.S. GAUGE |
|                           |                   |

|       | 31" TO 54"                   | NO. 22 U.S. GAUGE                           |
|-------|------------------------------|---------------------------------------------|
| С.    | C. ROUND LOW PRESSURE DUCTS: | "SNAP-LOK" AS MANUFACTURED BY UNITED SHEET  |
| METAL | COMPANY.                     |                                             |
| D.    | RECTANGULAR DUCTWORK FITTING | S: FABRICATED PER SMACNA STANDARDS FOR LOW- |

PRESSURE DUCTWORK(2-INCH PRESSURE CLASS). ROUND DUCTWORK FITTINGS: AS MANUFACTURED BY UNITED SHEET METAL CO., AND/OR AS DETAILED ON THE DRAWINGS.

FLEXIBLE CONNECTIONS: CONNECTIONS TO AIR CONDITIONING UNITS AND FANS SHALL BE FLEXIBLE CONNECTIONS WHICH SHALL BE NEOPRENE COATED GLASS FABRIC WEIGHING NOT LESS THAN 30 OUNCES PER SQUARE YARD AND AT LEAST 1/16" THICK.

AT THE CONTRACTOR'S OPTION, 2" INSULATED FLEXIBLE DUCT MAY BE USED FOR FINAL RUN OUT TO AIR DEVICES WHEN INSTALLED PER MANUFACTURER'S INSTALLATION INSTRUCTIONS. FLEXIBLE RUN OUTS SHALL NOT EXCEED 5-FEET EXTENDED LENGTH. SURFACE-BURNING CHARACTERISTICS FOR SEALANTS AND GASKETS SHALL BE A MAXIMUM FLAME-SPREAD INDEX OF 25 AND A MAXIMUM SMOKE-DEVELOPED INDEX OF 50 WHEN TESTED

ACCORDING TO UL 723; CERTIFIED BY AN NRTL ACCESS DOORS SHALL BE PROVIDED FOR ACCESS TO ALL DAMPERS, FUSIBLE LINKS, AND WHERE REQUIRED FOR MAINTENANCE AND CLEANING OPERATIONS. ACCESS DOORS SERVING INSULATED DUCTS SHALL BE DOUBLE-SKIN DOORS WITH ONE INCH OF INSULATION ON THE DOOR. WHERE DUCT SIZE PERMITS, THE ACCESS DOORS SHALL BE16-INCHES BY 18-INCHES. ACCESS DOORS SHALL BE AS MANUFACTURED BY MILCOR.

4.3.1 INSULATION A. ALL RECTANGULAR SHEET METAL DUCTS SHALL BE INSULATED WITH 1.5-INCH" THICK, 3/4" LB DENSITY FIBERGLASS-FACED INSULATION, OR AS REQUIRED TO MEET A MINIMUM INSTALLED R-VALUE OF 6.0. INSTALL WITH ALL JOINTS OVERLAPPED AND NEATLY SEALED. ALL ROUND SHEET METAL DUCTS SHALL BE INSULATED WITH 2" THICK, 3/4" LB DENSITY

FIBERGLASS-FACED INSULATION, OR AS REQUIRED TO MEET A MINIMUM INSTALLED R-VALUE OF 6.0. INSTALL WITH ALL JOINTS OVERLAPPED AND NEATLY SEALED WITH UL 181 LISTED SEALANT. INSULATE REFRIGERANT PIPING WITH 3/8" THICK ARMAFLEX. APPLY INSULATION WITH ALL JOINTS FIRMLY BUTTED TOGETHER. 4.4.1 FILTERS

A. FILTERS SHALL BE 1" THROW AWAY TYPE AND SHALL BE FARR 30-30 FILTER OR EQUAL TYPES BY CAMBRIDGE OR MICROTRON. MAXIMUM VELOCITY THROUGH FILTER MEDIA SHALL BE 500 FPM

4.5.1 AIR DISTRIBUTION DEVICES A. AIR DISTRIBUTION DEVICES SHALL BE FURNISHED WITH FRAME STYLES, DEFLECTING DEVICE, DAMPERS AND OTHER ACCESSORIES AS SHOWN ON THE SCHEDULE, AS MANUFACTURED BY TITUS OR APPROVED EQUAL BY METAL-AIRE, PRICE, OR KRUEGER.

B. WALL LOUVERS SHALL BE RECESSED FRAME DOUBLE WEATHER STOP WITH BIRD SCREEN. PROVIDE RUSKIN MODEL L545 OR APPROVED EQUAL BY GREENHECK OR SEMCO. C. FURNISH AND INSTALL SCREENS ON ALL DUCT, FAN OR OTHER MECHANICAL OPENINGS OR EQUIPMENT FURNISHED BY THIS CONTRACTOR, WHICH LEAD TO OR ARE OUTDOORS. SCREENS SHALL BE 16 GAUGE, ONE-HALF INCH MESH IN REMOVABLE GALVANIZED FRAMES.

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SPACE.

**RELEASED FOR** CONSTRUCTION

ent Services D Lee's Summit, Misso 07/03/2024

# 4.6.6 SYSTEM CHARGING AND STARTUP

A. SUPPLY THE INITIAL CHARGE OF REFRIGERANT AS REQUIRED TO COMPLETELY CHARGE THE SYSTEM. ANY LOSS OF REFRIGERANT OR OIL DURING TESTING PERIOD OR INITIAL RUNS SHALL BE REPLACED BY THE MECHANICAL SUB-CONTRACTOR AT HIS COST.

B. THE SYSTEMS SHALL BE CHARGED ONLY AFTER THEY HAVE BEEN TESTED AND RENDERED FREE OF LEAKS AND THOROUGHLY EVACUATED USING A VACUUM PUMP AND A RELIABLE VACUUM DEHYDRATION INDICATOR, FOLLOWING STANDARD RECOMMENDED PROCEDURES. C. MECHANICAL SUB-CONTRACTOR SHALL OPERATE ALL SYSTEMS UNTIL THE SATISFACTORY PERFORMANCE OF SPECIFICATION REQUIREMENTS IS DEMONSTRATED TO THE COMPLETE SATISFACTION OF THE CONTRACTOR. PRIOR TO, AND DURING OPERATION, ALL CONTROLS AND OTHER APPURTENANCES AND DEVICES SHALL BE ADJUSTED AND CALIBRATED. TEST ALL SAFETY DEVICES AND MAKE READY FOR AUTOMATIC OPERATION. ALL SYSTEMS SHALL BE CALIBRATED, AND ALL FANS AND OTHER ROTATING PARTS SHALL BE PROPERLY LUBRICATED AND CHECKED FOR CORRECT ALIGNMENT.

D. THE MECHANICAL SUB-CONTRACTOR, DURING OPERATION AND BALANCING PERIODS, SHALL INSTRUCT THE CONTRACTOR'S AND OWNER'S PERSONNEL IN THE OPERATION AND CONTROL OF THE SYSTEMS AND MAINTENANCE SCHEDULE. 4.7.1 ROOF TOP AIR HANDLING UNITS

GALVANIZED STEEL PAINTED WITH BAKED ENAMEL. GALVANIZED-STEEL LINER.

- INSULATED WITH FIBERGLASS. STAINLESS-STEEL OR CORROSION RESISTANT DRAIN PAN.
- SUPPLY-AIR FAN: BELT DRIVEN, FORWARD CURVED, CENTRIFUGAL. CONDENSER-COIL FAN: DIRECT-DRIVEN PROPELLER.
- SUPPLY-AIR REFRIGERANT COIL: ALUMINUM-PLATE FINS AND SEAMLESS COPPER TUBE.
  - BAKED PHENOLIC COATING.
- REFRIGERANT CIRCUIT COMPONENTS: NUMBER OF REFRIGERANT CIRCUITS: ONE.
  - COMPRESSOR: HERMETIC SCROLL REFRIGERANT CHARGE: R-410A.
- FILTERS: DISPOSABLE, PLEATED.

### ELECTRICAL HEAT PUMP

SINGLE POINT OF CONNECTION. BASIC UNIT CONTROLS: PROGRAMMABLE WALL-MOUNTED THERMOSTAT

ACCESSORIES DUPLEX ELECTRICAL OUTLET.

- FILTER DIFFERENTIAL PRESSURE SWITCH. HAIL GUARDS. ROOF CURB:
- VIBRATION ISOLATORS.

SECTION 5 - SYSTEM BALANCING

A. TESTING, ADJUSTMENT AND START-UP OF MECHANICAL SYSTEMS SHALL BE PERFORMED BY PERSONNEL CERTIFIED BY THE AMERICAN AIR BALANCE COUNCIL OR SIMILAR ORGANIZATION. TESTING, ADJUSTING AND BALANCING SHALL BE PERFORMED BY AN INDEPENDENT 3RD PARTY CONTRACTOR. ALL NECESSARY TEST EQUIPMENT, INSTRUMENTS, MATERIALS AND LABOR REQUIRED FOR PERFORMING ALL THE TESTS DESCRIBED SHALL BE PROVIDED AS PART OF THE WORK OF THIS DIVISION.

B. UPON COMPLETION OF THE INSTALLATION AND START-UP OF THE MECHANICAL EQUIPMENT, CHECK, ADJUST AND BALANCE SYSTEMIC COMPONENTS TO OBTAIN OPTIMUM CONDITIONS IN EACH CONDITIONED SPACE IN THE BUILDING.

C. PRIOR TO REQUESTING A FINAL INSPECTION, THIS SUB-CONTRACTOR SHALL PREPARE AND SUBMIT TO THE ARCHITECT/ENGINEER OF RECORD COMPLETE REPORTS ON THE BALANCE AND OPERATIONS OF THE SYSTEM, BEARING THE SEAL OF A CERTIFIED AIR BALANCE TECHNICIAN. IN THIS REPORT, THE ORIGINAL CONDITIONS MEASURED AT STARTUP AND FINAL CONDITIONS AFTER BALANCING OF ALL EQUIPMENT SHALL BE CLEARLY INDICATED.

D. MAKE AN INSPECTION IN THE BUILDING DURING THE OPPOSITE SEASON FROM THAT IN WHICH THE INITIAL ADJUSTMENTS WERE MADE AND, AT THE TIME, MAKE ANY NECESSARY MODIFICATIONS TO THE INITIAL ADJUSTMENTS REQUIRED TO PRODUCE OPTIMUM OPERATION OF THE SYSTEMIC COMPONENTS TO PRODUCE THE PROPERTY CONDITIONS IN EACH CONDITIONED

# 5.1.2 WORK INCLUDED

A. THE BALANCING TECHNICIAN SHALL BE RESPONSIBLE FOR INSPECTING, ADJUSTING, BALANCING AND LOGGING THE DATA ON THE PERFORMANCE OF FANS, ALL DAMPERS IN THE DUCT SYSTEMS AND ALL AIR DISTRIBUTION DEVICES. THE MECHANICAL CONTRACTOR AND THE SUPPLIERS OF THE EQUIPMENT INSTALLED SHALL ALL COOPERATE WITH THE BALANCING TECHNICIAN TO PROVIDE ALL NECESSARY DATA ON THE DESIGN AND PROPER APPLICATION OF THE SYSTEMATIC COMPONENTS AND SHALL FURNISH ALL LABOR AND MATERIALS REQUIRED TO ELIMINATE ANY DEFICIENCIES OR IMPROPER-PERFORMANCE.

B. DURING THE BALANCING, THE TEMPERATURE REGULATION SHALL BE ADJUSTED FOR PROPER RELATIONSHIP BETWEEN CONTROLLING INSTRUMENTS AND CALIBRATED BY THE TEMPERATURE CONTROLS SUB-CONTRACTOR USING DATA SUBMITTED BY THE BALANCING TECHNICIAN. THE TOTAL VARIATION SHALL NOT EXCEED 3 DEGREES FROM THE PRESENT MEDIAN TEMPERATURE DURING THE ENTIRE TEMPERATURE SURVEY PERIOD. C. IN ALL FAN SYSTEMS, BALANCE THE AIR QUANTITIES TO BE BETWEEN PLUS 10- TO MINUS 5-

PERCENT OF THE VALUES SHOWN ON THE PLANS. IT SHALL BE THE OBLIGATION OF THE MECHANICAL CONTRACTOR TO FURNISH OR REVISE FAN DRIVES AND/OR MOTORS, IF NECESSARY, WITHOUT COST TO THE CONTRACTOR, TO ATTAIN THE SPECIFIED AIR VOLUME. 5.1.3 REPORT

A. BEFORE FINAL ACCEPTANCE IS MADE, THE BALANCING TECHNICIAN SHALL PREPARE A DETAILED. WRITTEN REPORT.

B. THE DATA SHALL BE NEATLY ENTERED ON APPROPRIATE FORMS TOGETHER WITH ANY TYPED SUPPLEMENTS REQUIRED TO COMPLETELY DOCUMENT ALL RESULTS. C. WRITTEN EXPLANATIONS OF ANY ABNORMAL CONDITIONS SHALL BE INCLUDED. ALL THIS SHALL BE ASSEMBLED INTO A SUITABLE BROCHURE, AND A TOTAL OF FOUR COPIES SHALL BE PROVIDED

D. THE TYPED TEST DATA SHEETS AND CORRELATION OF THE TEST RESULTS SHALL BE CERTIFIED TO BE TRUE AND CORRECT BY A CERTIFIED AIR BALANCE TECHNICIAN OVER THE SIGNATURE OF THE SUBCONTRACTOR. SUCH SIGNATURE SHALL BE EXECUTED BY AN OFFICER IF THE SUBCONTRACTING FIRM IS A CORPORATION, A PARTNER IF A PARTNERSHIP, OR BY THE OWNER IS A SOLE OWNERSHIP. THIS DATA SHALL BE DELIVERED TO DESIGNATED MEMBERS OF THE BUILDING OPERATING PERSONNEL NOT LESS THAN THREE DAYS AFTER THE TEXTS ARE COMPLETE SETTINGS, READING, ETC. SHALL BE PREPARED AND SUBMITTED IN QUADRUPLICATE. 5.1.4 INSTRUCTIONS

A. DURING THE TEST PERIODS, THE BALANCING TECHNICIAN SHALL INSTRUCT THE BUILDING MAINTENANCE PERSONNEL IN THE CONSTRUCTION AND OPERATION OF ALL EQUIPMENT.

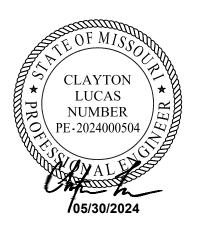


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**REVISION SET** 

CONTRACTOR SHALL VERIFY ALL CONDITIONS AND DIMENSIONS AT THE JOB SITE AND NOTIFY THE ARCHITECT OF ANY DIMENSIONAL ERRORS, OMISSIONS OR DISCREPANCIES BEFORE BEGINNING OR FABRICATING ANY WORK. DO NOT SCALE DRAWINGS. SSUE DATE DESCRIPTION

| PROJECT INFORMATION |             |   |            |  |
|---------------------|-------------|---|------------|--|
| PRO                 | JECT NO:    |   | 24-0087    |  |
| ORIC                | SINAL ISSUE | : | 09/06/2022 |  |

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SHEET TITLE

DRAWN BY: CHECKED BY:

SCALE:

MECHANICAL **SPECIFICATIONS** 

SHEET NUMBER

M105

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| Location:<br>Climate Zor                                                                                                                                                                                                                                                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | nmit, Missouri                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                                                                                                                                                                                                                                                                                                                                                   | Section<br>#                                                                                                                                                                                                                                                                                                                                                                                      | Plan Review                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Complies? 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              | Plans, specifications, and/or<br>calculations provide all information                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    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| Lee's Sur                                                                                                                                                                                                                                                                                | Chipman Road                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | r/Agent:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Designer/Contractor:<br>Gemini Engineering Group<br>101 Nightlinger Ln<br>Milsap, TX 76066<br>(817) 901-5191                                                                                                                                                                                                                                                                                      |                                                                                                                                                                                                                                                                                                                                                                                                   | with which compliance can be<br>determined for the mechanical<br>systems and equipment and<br>document where exceptions to the<br>standard are claimed. Load<br>calculations per acceptable                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Not Observable                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| Reduced<br>Mechanic<br>Quantity<br>1                                                                                                                                                                                                                                                     | 0 Required 1.0 Proposed<br>Lighting Power, 1.0 credit<br><b>cal Systems List</b><br><b>System Type &amp; Description</b><br>HVAC System 1 (Single Zone):<br>Single Package Heat Pump<br>Heating Mode: Capacity = 34 kBtu/h,<br>Proposed Efficiency = 8.30 HSPF, Require                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | ed Efficiency = 8.00 H                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | SDE                                                                                                                                                                                                                                                                                                                                                                                               | C103.2<br>[PR3] <sup>1</sup>                                                                                                                                                                                                                                                                                                                                                                      | engineering standards and<br>handbooks.<br>Plans, specifications, and/or<br>calculations provide all information<br>with which compliance can be<br>determined for the service water<br>heating systems and equipment and<br>document where exceptions to the<br>standard are claimed. Hot water<br>system sized per manufacturer's<br>sizing guide.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | □Complies<br>□Does Not<br>□Not Observable<br>□Not Applicable                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | Requirement will be met.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
|                                                                                                                                                                                                                                                                                          | Cooling Mode: Capacity = 52 kBtu/h,<br>Proposed Efficiency = 16.20 SEER, Requ<br>Fan System: FAN SYSTEM 1 Compliance<br>Fans:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               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              | Plans, specifications, and/or<br>calculations provide all information<br>with which compliance can be<br>determined for the additional energy<br>efficiency package options.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             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                                                                                                                                                                                                                                                                                                                                                      | Requirement will be met.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| <b>Mechani</b><br><i>Complianc</i><br>specificatio                                                                                                                                                                                                                                       | FAN 1 Supply, Constant Volume, 1750 CF<br>Water Heater 1:<br>Electric Storage Water Heater, Capacity: 50<br>Proposed Efficiency: 0.84 SL, %/h (if > 12<br>Cal Compliance Statement<br><i>e Statement:</i> The proposed mechanical<br>ons, and other calculations submitted with                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | gallons w/ Circulation<br>kW), Required Efficie<br>design represente<br>ith this permit appli                                                                                                                                                                                                                                                                                                                                                                                                         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| Project Titl                                                                                                                                                                                                                                                                             | e: Salad & Go<br>ame: C:\Users\jbour\Gemini Engineering                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Report date: 04/09/2<br>ineering Group - Page 1 of 2                                                                                                                                                                                                                                                                                                                                              | <br>24 Project Titl                                                                                                                                                                                                                                                                                                                                                                               | 1     High Impact (Tier 1)       Ie:     Salad & Go                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 2 Medium Imp                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | act (Tier 2) 3 Low Impact (Tier 3)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
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| Section<br>#                                                                                                                                                                                                                                                                             | Documents\Projects\Retail_Commo<br>MO\Design\6_Energy\Salad&GO_Lo<br>Plumbing Rough-In Inspection                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           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              | Documents\Projects\Retail_Comm<br>MO\Design\6_Energy\Salad&GO_L<br>Mechanical Rough-In Inspection                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        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| Section<br>#<br>& Req.ID<br>C404.5,                                                                                                                                                                                                                                                      | Documents\Projects\Retail_Commo<br>MO\Design\6_Energy\Salad&GO_Lo<br>Plumbing Rough-In Inspection                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Complies                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | \2024\24-001-05 Lee Summit,<br>CC 2018.cck                                                                                                                                                                                                                                                                                                                                                        | Section                                                                                                                                                                                                                                                                                                                                                                                           | Documents\Projects\Retail_Comm<br>MO\Design\6_Energy\Salad&GO_L<br>Mechanical Rough-In Inspection                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | erical\Salad and Go<br>ee's Summit, MO_IE<br>Complies? 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| Section<br>#<br>& Req.ID<br>C404.5,<br>C404.5,1,<br>C404.5,2                                                                                                                                                                                                                             | Documents\Projects\Retail_Commo<br>MO\Design\6_Energy\Salad&GO_Lo<br>Plumbing Rough-In Inspection<br>Heated water supply piping conforms<br>to pipe length and volume<br>requirements. 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| Section<br>#<br>C404.5,<br>C404.5,1,<br>C404.5,2<br>[PL6] <sup>3</sup><br>C404.5,1,<br>C404.5,2<br>[PL6] <sup>3</sup>                                                                                                                                                                    | Documents\Projects\Retail_Commo<br>MO\Design\6_Energy\Salad&GO_Lo<br>Plumbing Rough-In Inspection<br>Heated water supply piping conforms<br>to pipe length and volume<br>requirements. Refer to section details.<br>Heated water supply piping conforms<br>to pipe length and volume<br>requirements. 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Pumps that circulate water between a         heater and storage tank have controls         that limit operation from startup to         <= 5 minutes after end of heating                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | Complies?<br>Complies?<br>Complies?<br>Does Not<br>Not Observable<br>Not Applicable<br>Complies<br>Does Not<br>Not Observable<br>Not Applicable<br>Complies<br>Does Not<br>Not Observable<br>Not Applicable<br>Complies<br>Does Not<br>Not Observable<br>Not Applicable<br>Not Applicable                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Comments/Assumptions Comments/Assumptions Requirement will be met. 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Mechanical ventilation has<br>capability to reduce outdoor air supply<br>to minimum per IMC Chapter 4.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Complies?<br>f Complies?<br>f Complies<br>Does Not<br>Not Observable<br>Does Not<br>Not Observable<br>Complies<br>Does Not<br>Not Observable<br>Not Applicable<br>Complies<br>Does Not<br>Not Observable<br>Not Observable<br>Not Applicable                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | Comments/Assumptio         Requirement will be met.         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| Section<br>#<br>& Req.ID<br>C404.5,<br>C404.5,<br>C404.5,<br>C404.5,<br>C404.5,<br>C404.5,<br>[PL6] <sup>3</sup><br>C404.6.2<br>[PL3] <sup>1</sup><br>C404.6.3<br>[PL7] <sup>3</sup><br>C404.6.3<br>[PL7] <sup>3</sup><br>C404.6.3<br>[PL7] <sup>3</sup><br>C404.7<br>[PL8] <sup>3</sup> | Plumbing Rough-In Inspection Plumbing Rough-In Inspection Heated water supply piping conforms to pipe length and volume requirements. Refer to section details. Heated water supply piping conforms to pipe length and volume requirements. Refer to section details. Automatic time switches installed to automatically switch off the recirculating hot-water system or heat trace. Pumps that circulate water between a heater and storage tank have controls that limit operation from startup to <= 5 minutes after end of heating cycle. Pumps that circulate water between a heater and storage tank have controls that limit operation from startup to <= 5 minutes after end of heating cycle. 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Requirement will be met. | Section<br>#<br>& Req.ID<br>C402.2.6<br>[ME41] <sup>3</sup><br>C403.8.4<br>[ME142] <sup>2</sup><br>C403.8.5<br>[ME143] <sup>2</sup><br>C403.12.1<br>[ME71] <sup>2</sup><br>C403.2.3<br>[ME55] <sup>2</sup><br>C403.2.2<br>[ME55] <sup>1</sup><br>C403.7.1<br>[ME59] <sup>1</sup>                                                                                                                  | Documents\Projects\Retail_Comm<br>MO\Design\6_Energy\Salad&GO_L         Mechanical Rough-In Inspection         Thermally ineffective panel surfaces of<br>sensible heating panels have<br>insulation >= R-3.5.         Motors for fans that are not less than<br>1/12 hp and less than 1 hp are<br>electronically commutated motors or<br>have a minimum motor efficiency of<br>70 percent. These motors have the<br>means to adjust motor speed.         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| Section<br>#<br>& Req.ID<br>C404.5,<br>C404.5,<br>C404.5,<br>C404.5,<br>C404.5,<br>C404.5,<br>[PL6] <sup>3</sup><br>C404.6.2<br>[PL3] <sup>1</sup><br>C404.6.3<br>[PL7] <sup>3</sup><br>C404.6.3<br>[PL7] <sup>3</sup><br>C404.6.3<br>[PL7] <sup>3</sup><br>C404.7<br>[PL8] <sup>3</sup> | Plumbing Rough-In Inspection Heated water supply piping conforms to pipe length and volume requirements. Refer to section details. Heated water supply piping conforms to pipe length and volume requirements. Refer to section details. Heated water supply piping conforms to pipe length and volume requirements. Refer to section details. Automatic time switches installed to automatically switch off the recirculating hot-water system or heat trace. Pumps that circulate water between a heater and storage tank have controls that limit operation from startup to <= 5 minutes after end of heating cycle. 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Enclosed parking garage ventilation<br>has automatic contaminant detection<br>and capacity to stage or modulate<br>fans to 50% or less of design capacity         HVAC systems serving guestrooms in       Interview                                                                                                                                                                                                                                                                                          | Complies?<br>f Complies?<br>f Complies<br>Does Not<br>Not Observable<br>Not Applicable<br>Complies<br>Does Not<br>Not Observable<br>Not Observable<br>Not Applicable<br>Complies<br>Does Not<br>Not Observable<br>Not Observable<br>Not Applicable<br>Complies<br>Does Not<br>Not Observable<br>Not Observable                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | A2024\24-001-05 Lee Summit,         ECC 2018.cck         Comments/Assumptio         Requirement will be met.         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| leview                                                                                                                                 | Complies?                                                    | Comments/Assumptions     |
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| s, and/or<br>e all information<br>nce can be<br>mechanical<br>ment and<br>cceptions to the<br>ed. Load<br>ceptable<br>rds and          | Complies<br>Does Not<br>Not Observable<br>Not Applicable     | Requirement will be met. |
| s, and/or<br>e all information<br>nce can be<br>service water<br>d equipment and<br>cceptions to the<br>ed. Hot water<br>anufacturer's | □Complies<br>□Does Not<br>□Not Observable<br>□Not Applicable | Requirement will be met. |
| s, and/or<br>e all information<br>nce can be<br>additional energy<br>options.                                                          | □Complies<br>□Does Not<br>□Not Observable<br>□Not Applicable | Requirement will be met. |
| sumptions:                                                                                                                             |                                                              |                          |

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| #<br>& Req.ID                                                                                                                                                                                                                                                                                                           | Footing / Foundation Inspection<br>Snow/ice melting system and freeze                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Complies? 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| ,                                                                                                                                                                                                                                                                                                                       | protection systems have sensors and<br>controls configured to limit service for<br>pavement temperature and outdoor                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          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| [105]                                                                                                                                                                                                                                                                                                                   | temperature. future connection to controls.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  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| Mechanical Rough-In Inspection                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Complies?                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Comments/Assum                                                                                                                                                           |
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|                                                                                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                              |                                                                                       | Development Services D<br>Lee's Summit, Miss<br>07/03/2024                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
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| ,<br>C403.12.3<br>[FO9] <sup>3</sup>                                                                             | protection systems have sensors and<br>controls configured to limit service for<br>pavement temperature and outdoor                                                                                                                                                                                                                                                                                                                                                                                                           |                                              | Comments/Assumptions<br>Exception: Requirement does not apply.                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|                                                                                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                              |                                                                                       | 610 NW CHIPMAN ROAD<br>LEE'S SUMMIT, MO 64086 PROPOSED LOT 3<br>PROTOTYPE VERSION V2-B                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
|                                                                                                                  | 1       High Impact (Tier 1)         :       Salad & Go         ne:       C:\Users\jbour\Gemini Engineering         Documents\Projects\Retail_Comme         MO\Design\6_Energy\Salad&GO_Le                                                                                                                                                                                                                                                                                                                                    | rical\Salad and Go\                          | Report date: 04/09/24<br>ineering Group - Page 3 of 10<br>\2024\24-001-05 Lee Summit. | <b>O GEMIN</b><br>ENGINEERING GROU                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| C403.11.2<br>[ME60] <sup>2</sup><br>C403.4.3.<br>3.2<br>[ME121] <sup>3</sup>                                     | HVAC ducts and plenums insulated in<br>accordance with C403.11.1 and<br>constructed in accordance with<br>C403.11.2, verification may need to<br>occur during Foundation Inspection.<br>Closed-circuit cooling tower within<br>heat pump loop have either automatic                                                                                                                                                                                                                                                           | Does Not<br>Not Observable<br>Not Applicable | Requirement will be met.                                                              | SEAL<br>CLAYTON<br>CLAYTON<br>CLAYTON<br>LUCAS<br>NUMBER<br>PE-2024000504<br>CLAYTON<br>LUCAS<br>NUMBER<br>PE-2024000504<br>CLAYTON<br>LUCAS<br>NUMBER<br>PE-2024000504<br>CLAYTON<br>LUCAS<br>NUMBER<br>PE-2024000504<br>CLAYTON<br>LUCAS<br>NUMBER<br>PE-2024000504<br>CLAYTON<br>LUCAS<br>NUMBER<br>PE-2024000504<br>CLAYTON<br>LUCAS<br>NUMBER<br>PE-2024000504<br>CLAYTON<br>LUCAS<br>NUMBER<br>PE-2024000504<br>CLAYTON<br>LUCAS<br>NUMBER<br>PE-2024000504<br>CLAYTON<br>LUCAS<br>NUMBER<br>PE-2024000504<br>CLAYTON<br>LUCAS<br>NUMBER<br>PE-2024000504<br>CLAYTON<br>LUCAS<br>NUMBER<br>PE-202400504<br>CLAYTON<br>LUCAS<br>NUMBER<br>PE-202400504<br>CLAYTON<br>LUCAS<br>NUMBER<br>PE-202400504<br>CLAYTON<br>LUCAS<br>NUMBER<br>PE-202400504<br>CLAYTON<br>LUCAS<br>NUMBER<br>PE-202400504<br>CLAYTON<br>LUCAS<br>NUMBER<br>PE-202400504<br>CLAYTON<br>LUCAS<br>NUMBER<br>PE-2024000504<br>CLAYTON<br>LUCAS<br>NUMBER<br>PE-2024000504<br>CLAYTON<br>LUCAS<br>NUMBER<br>PE-202400504<br>CLAYTON<br>LUCAS<br>NUMBER<br>PE-202400504<br>CLAYTON<br>LUCAS<br>NUMBER<br>PE-202400504<br>CLAYTON<br>LUCAS<br>NUMBER<br>PE-202400504<br>CLAYTON<br>LUCAS<br>NUMBER<br>PE-202400504<br>CLAYTON<br>LUCAS<br>NUMBER<br>PE-202400504<br>CLAYTON<br>LUCAS<br>NUMBER<br>PE-202400504<br>CLAYTON<br>LUCAS<br>NUMBER<br>PE-202400504<br>CLAYTON<br>LUCAS<br>NUMBER<br>PE-202400504<br>CLAYTON<br>LUCAS<br>NUMBER<br>PE-202400504<br>CLAYTON<br>LUCAS<br>NUMBER<br>PE-202400504<br>CLAYTON<br>LUCAS<br>NUMBER<br>PE-202400504<br>CLAYTON<br>LUCAS<br>NUMBER<br>PE-202400504<br>CLAYTON<br>LUCAS<br>NUMBER<br>PE-202400504<br>CLAYTON<br>LUCAS<br>NUMBER<br>PE-202400504<br>CLAYTON<br>LUCAS<br>NUMBER<br>PE-202400504<br>CLAYTON<br>LUCAS<br>NUMBER<br>PE-202400504<br>CLAYTON<br>LUCAS<br>NUMBER<br>PE-202400504<br>CLAYTON<br>LUCAS<br>NUMBER<br>PE-202400504<br>CLAYTON<br>LUCAS<br>NUMBER<br>PE-202400504<br>CLAYTON<br>LUCAS<br>NUMBER<br>PE-202400504<br>CLAYTON<br>LUCAS<br>NUMBER<br>LUCAS<br>NUMBER<br>PE-202400504<br>CLAYTON<br>LUCAS<br>NUMBER<br>PE-202400504<br>CLAYTON<br>LUCAS<br>NUMBER<br>PE-202400504<br>CLAYTON<br>LUCAS<br>NUMBER<br>PE-202400504<br>CLAYTON<br>LUCAS<br>NUMBER<br>PE-202400504<br>CLAYTON<br>LUCAS<br>NUMBER<br>PE-202400504<br>CLAYTON<br>LUCAS<br>NUMBER<br>PE-202400504<br>CLAYTON<br>LUCAS<br>NUMBER<br>PE-202400504<br>CLAYTON<br>LUCAS<br>NUMBER<br>PE-202400504<br>CLAYTON<br>LUCAS<br>NUMBER<br>PE-202400<br>CLAYTON<br>LUCAS<br>NUMBER<br>PE-202400<br>CLAYTON<br>LUCAS<br>NUMBER<br>PE-202400<br>CLAYTON<br>LUCAS<br>NUMBER<br>PE- |
| C403.4.1.<br>4<br>[ME63] <sup>2</sup><br>C408.2.2.<br>1<br>[ME53] <sup>3</sup><br>C403.5,<br>C403.5,<br>C403.5.2 | Heating for vestibules and air curtains<br>with integral heating include<br>automatic controls that shut off the<br>heating system when outdoor air<br>temperatures > 45F. Vestibule<br>heating and cooling systems<br>controlled by a thermostat in the<br>vestibule with heating setpoint <=<br>60F and cooling setpoint >= 80F.<br>Air outlets and zone terminal devices<br>have means for air balancing.<br>Refrigerated display cases, walk-in<br>coolers or walk-in freezers served by<br>remote compressors and remote | Does Not<br>Not Observable<br>Not Applicable | Requirement will be met.                                                              | CONDITIONS AND DIMENSIONS AT THI<br>JOB SITE AND NOTIFY THE ARCHITEC<br>OF ANY DIMENSIONAL ERRORS,<br>OMISSIONS OR DISCREPANCIES BEFOR<br>BEGINNING OR FABRICATING ANY WOR<br>DO NOT SCALE DRAWINGS.<br>ISSUE DATE DESCRIPTION                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| [ME123] <sup>3</sup><br>Additiona                                                                                | condensers not located in a<br>condensing unit, have fan-powered<br>condensers that comply with Sections<br>C403.5.1 and refrigeration compressor<br>systems that comply with C403.5.2<br>I Comments/Assumptions:<br>1 High Impact (Tier 1)<br>Salad & Go<br>ne: C:\Users\ibour\Gemini Engineering                                                                                                                                                                                                                            | 2 Medium Impe                                | Report date: 04/09/24<br>ineering Group - Page 6 of 10                                | PROJECT INFORMATION PROJECT NO: 24-00 ORIGINAL ISSUE: 09/06/20 SCALE: AS NOT DRAWN BY: CHECKED BY: SHEET TITLE MECHANICAL ENERGY FORMS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
|                                                                                                                  | Documents\Projects\Retail_Comme<br>MO\Design\6_Energy\Salad&GO_Le                                                                                                                                                                                                                                                                                                                                                                                                                                                             | e's Summit, MO_IE                            | CC 2018.cck                                                                           | SHEET NUMBER<br>M106                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |

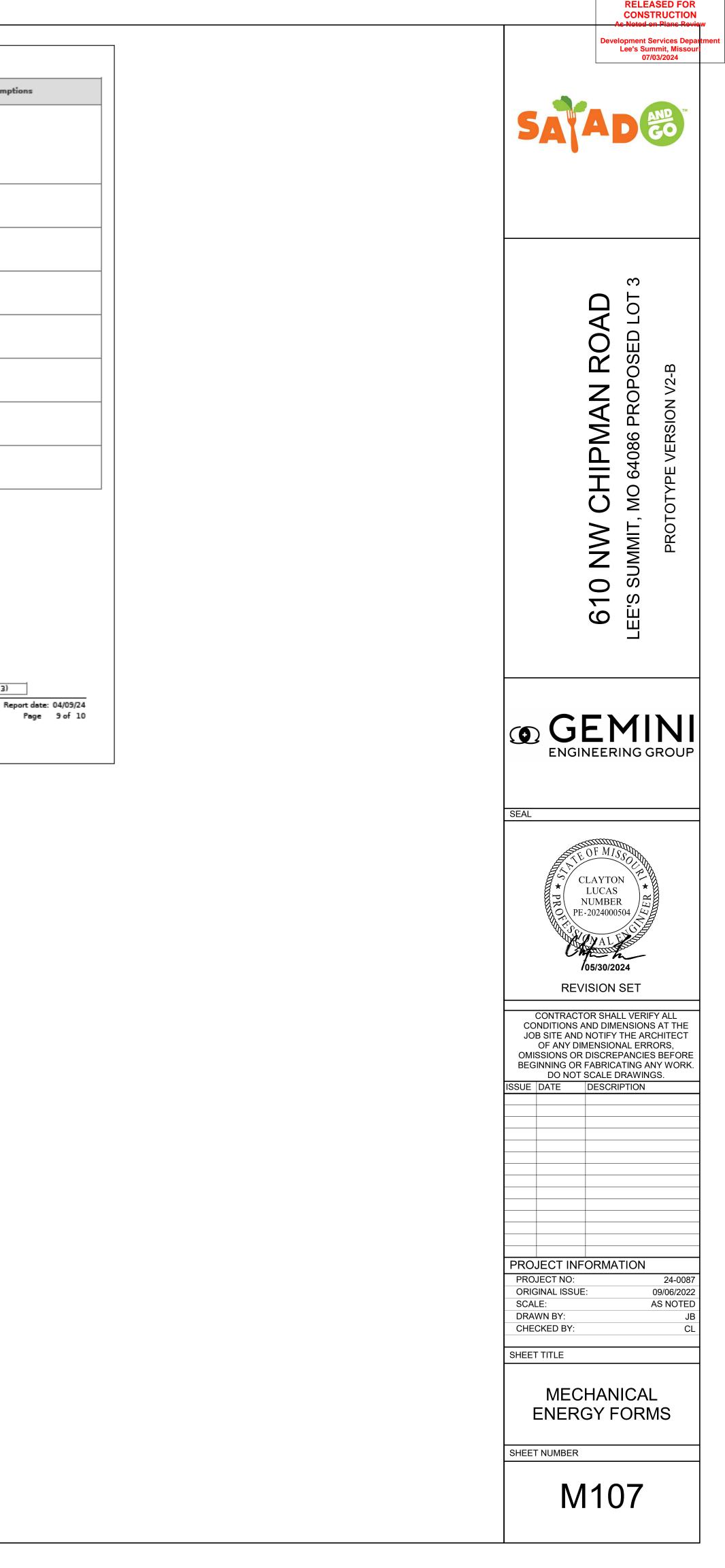
| & Req.ID            | Rough-In Electrical Inspection                                                                                             | Complies?                                    | Comments/As                               | ssumptions                            | #<br>& Req.ID                        | Final Inspection                                                                                                                                              | Complies?                                                     | Comments/Assumptions                                                                    |
|---------------------|----------------------------------------------------------------------------------------------------------------------------|----------------------------------------------|-------------------------------------------|---------------------------------------|--------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------|-----------------------------------------------------------------------------------------|
| EL26] <sup>2</sup>  | Low-voltage dry-type distribution<br>electric transformers meet the                                                        |                                              | Requirement will be met.                  |                                       | C303.3,                              | Furnished O&M manuals for HVAC                                                                                                                                | Complies                                                      | Requirement will be met.                                                                |
|                     | electric transformers meet the<br>minimum efficiency requirements of<br>Table C405.6.                                      | Does Not<br>Not Observable<br>Not Applicable |                                           |                                       | C408.2.5.<br>3<br>[FI8] <sup>3</sup> | systems within 90 days of system<br>acceptance.                                                                                                               | Does Not<br>Not Observable<br>Not Applicable                  |                                                                                         |
| 405.7               | Electric motors meet the minimum                                                                                           | Complies                                     | Requirement will be met.                  |                                       | C403.2.2                             | HVAC systems and equipment                                                                                                                                    |                                                               | Requirement will be met.                                                                |
| EL27] <sup>2</sup>  | efficiency requirements of Tables<br>C405.7(1) through C405.7(4).                                                          | Does Not<br>Not Observable                   |                                           |                                       | [FI27] <sup>3</sup>                  | capacity does not exceed calculated loads.                                                                                                                    | Does Not                                                      |                                                                                         |
|                     | Efficiency verified through certification<br>under an approved certification<br>program or the environment efficiency      | Not Applicable                               |                                           |                                       |                                      |                                                                                                                                                               | □Not Observable<br>□Not Applicable                            |                                                                                         |
|                     | program or the equipment efficiency<br>ratings shall be provided by motor<br>manufacturer (where certification             |                                              |                                           |                                       | C403.2.4.                            | Heating and cooling to each zone is<br>controlled by a thermostat control.                                                                                    | Complies                                                      | Requirement will be met.                                                                |
|                     | programs do not exist).                                                                                                    |                                              | Barris and B                              |                                       | [FI47] <sup>3</sup>                  | controlled by a thermostat control.<br>Minimum one humidity control device<br>per installed                                                                   | Not Observable                                                |                                                                                         |
| C405.8.2.           | with ASME A17.1/CSA B44 and have                                                                                           | Complies<br>Does Not                         | Requirement will be met.                  |                                       |                                      | humidification/dehumidification                                                                                                                               | Not Applicable                                                |                                                                                         |
| EL28] <sup>2</sup>  | automatic controls configured to<br>reduce speed to the minimum                                                            | □Not Observable<br>□Not Applicable           |                                           |                                       |                                      | Heat pump controls prevent<br>supplemental electric resistance heat                                                                                           | Complies                                                      | Requirement will be met.                                                                |
|                     | permitted speed in accordance with<br>ASME A17.1/CSA B44 or applicable                                                     | Duor Abbucance                               |                                           |                                       | 1.1<br>[FI42] <sup>3</sup>           | from coming on when not needed.                                                                                                                               | Does Not<br>Not Observable                                    |                                                                                         |
|                     | local code when not conveying<br>passengers.                                                                               |                                              |                                           |                                       | C402.4.1                             | Thermostatic controls have a 5 °F                                                                                                                             | ONot Applicable                                               | Requirement will be met.                                                                |
| [EL29] <sup>2</sup> | Total voltage drop across the<br>combination of feeders and branch                                                         | Complies                                     | Requirement will be met.                  |                                       | 2                                    | deadband.                                                                                                                                                     | Does Not                                                      | Requirement will be met.                                                                |
| · · · · · ·         | circuits <= 5%.                                                                                                            | □Not Observable<br>□Not Applicable           |                                           |                                       | [FI38] <sup>3</sup>                  |                                                                                                                                                               | □Not Observable<br>□Not Applicable                            |                                                                                         |
| dditiona            | l Comments/Assumptions:                                                                                                    |                                              |                                           |                                       |                                      | Temperature controls have setpoint                                                                                                                            | Complies                                                      | Requirement will be met.                                                                |
|                     | <b>-</b>                                                                                                                   |                                              |                                           |                                       | 1.3<br>[FI20] <sup>3</sup>           | overlap restrictions.                                                                                                                                         | Does Not<br>Not Observable                                    |                                                                                         |
|                     |                                                                                                                            |                                              |                                           |                                       | C402.2.4                             | Each zone equipped with setback                                                                                                                               | ONot Applicable                                               | Requirement will be met.                                                                |
|                     |                                                                                                                            |                                              |                                           |                                       | 2<br>[FI39] <sup>3</sup>             | controls using automatic time clock or<br>programmable control system.                                                                                        | Does Not                                                      |                                                                                         |
|                     |                                                                                                                            |                                              |                                           |                                       | [133]                                | programmable control system.                                                                                                                                  | □Not Observable<br>□Not Applicable                            |                                                                                         |
|                     |                                                                                                                            |                                              |                                           |                                       |                                      |                                                                                                                                                               | Complies                                                      | Requirement will be met.                                                                |
|                     |                                                                                                                            |                                              |                                           |                                       | 2.1,<br>C403.2.4.<br>2.2             | (heat) and 85°F (cool); 7-day clock, 2-<br>hour occupant override, 10-hour<br>backup                                                                          | Not Observable                                                |                                                                                         |
|                     |                                                                                                                            |                                              |                                           |                                       | 2.2<br>[FI40] <sup>3</sup>           |                                                                                                                                                               | Not Applicable                                                |                                                                                         |
|                     |                                                                                                                            |                                              |                                           |                                       | C403.2.4                             | Systems include optimum start                                                                                                                                 | Complies                                                      | Requirement will be met.                                                                |
|                     |                                                                                                                            |                                              |                                           |                                       | 2.3<br>[FI41] <sup>3</sup>           | controls.                                                                                                                                                     | Does Not                                                      |                                                                                         |
|                     |                                                                                                                            |                                              |                                           |                                       | [. (+1]                              |                                                                                                                                                               | □Not Observable<br>□Not Applicable                            |                                                                                         |
|                     |                                                                                                                            |                                              |                                           |                                       | C404.3<br>[FI11] <sup>3</sup>        | Heat traps installed on supply and<br>discharge piping of non-circulating                                                                                     | Complies                                                      | Requirement will be met.                                                                |
|                     |                                                                                                                            |                                              |                                           |                                       | furrly.                              | systems.                                                                                                                                                      | Not Observable                                                |                                                                                         |
|                     |                                                                                                                            |                                              |                                           |                                       | C404.4                               | All piping insulated in accordance with                                                                                                                       | ONot Applicable                                               | Requirement will be met.                                                                |
|                     |                                                                                                                            |                                              |                                           |                                       | [FI25] <sup>2</sup>                  |                                                                                                                                                               | Does Not                                                      |                                                                                         |
|                     |                                                                                                                            |                                              |                                           |                                       |                                      |                                                                                                                                                               | □Not Observable<br>□Not Applicable                            |                                                                                         |
|                     |                                                                                                                            |                                              |                                           |                                       | C404.6.1<br>[FI12] <sup>3</sup>      | Controls are installed that limit the<br>operation of a recirculation pump                                                                                    | Complies                                                      | Requirement will be met.                                                                |
|                     |                                                                                                                            |                                              |                                           |                                       |                                      | operation of a recirculation pump<br>installed to maintain temperature of a<br>storage tank. System return pipe is a<br>dedicated return pipe or a cold water | Not Observable                                                |                                                                                         |
|                     |                                                                                                                            |                                              |                                           |                                       |                                      | dedicated return pipe or a cold water<br>supply pipe.                                                                                                         | Not Applicable                                                |                                                                                         |
|                     | 1 High Impact (Tier 1)                                                                                                     | 2 Medium Impe                                | ct (Tier 2) 3 Low Impact (T               |                                       |                                      | 1 High Impact (Tier 1)                                                                                                                                        | 2 Medium Imp                                                  | act (Tier 2) 3 Low Impact (Tier 3)                                                      |
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| Section<br>#<br>& Req.ID              | Final Inspection                                                                                                                                                                                                                                                                                                            | Complies?                                                    | Comments/Assum           |
|---------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------|--------------------------|
| C408.1.1<br>[FI57] <sup>1</sup>       | Building operations and maintenance<br>documents will be provided to the<br>owner. Documents will cover<br>manufacturers' information,<br>specifications, programming<br>procedures and means of illustrating<br>to owner how building, equipment and<br>systems are intended to be installed,<br>maintained, and operated. | □Complies<br>□Does Not<br>□Not Observable<br>□Not Applicable | Requirement will be met. |
| C408.2.1<br>[FI28] <sup>1</sup>       | Commissioning plan developed by<br>registered design professional or<br>approved agency.                                                                                                                                                                                                                                    | Complies<br>Does Not<br>Not Observable<br>Not Applicable     | Requirement will be met. |
| C408.2.3.<br>1<br>[FI31] <sup>1</sup> | HVAC equipment has been tested to<br>ensure proper operation.                                                                                                                                                                                                                                                               | Complies<br>Does Not<br>Not Observable<br>Not Applicable     | Requirement will be met. |
| C408.2.3.<br>2<br>[FI10] <sup>1</sup> | HVAC control systems have been<br>tested to ensure proper operation,<br>calibration and adjustment of controls.                                                                                                                                                                                                             | Complies<br>Does Not<br>Not Observable<br>Not Applicable     | Requirement will be met. |
| C408.2.4<br>[FI29] <sup>1</sup>       | Preliminary commissioning report<br>completed and certified by registered<br>design professional or approved<br>agency.                                                                                                                                                                                                     | Complies<br>Does Not<br>Not Observable<br>Not Applicable     | Requirement will be met. |
| C408.2.5.<br>1<br>[FI7] <sup>3</sup>  | Furnished HVAC as-built drawings<br>submitted within 90 days of system<br>acceptance.                                                                                                                                                                                                                                       | Complies<br>Does Not<br>Not Observable<br>Not Applicable     | Requirement will be met. |
| C408.2.5.<br>3<br>[FI43] <sup>1</sup> | An air and/or hydronic system<br>balancing report is provided for HVAC<br>systems.                                                                                                                                                                                                                                          | Complies<br>Does Not<br>Not Observable<br>Not Applicable     | Requirement will be met. |
| C408.2.5.<br>4<br>[FI30] <sup>1</sup> | Final commissioning report due to<br>building owner within 90 days of<br>receipt of certificate of occupancy.                                                                                                                                                                                                               | Complies<br>Does Not<br>Not Observable<br>Not Applicable     | Requirement will be met. |

Additional Comments/Assumptions:

1 High Impact (Tier 1) 2 Medium Impact (Tier 2) 3 Low Impact (Tier 3)

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# NON-STRUCTURAL ELECTRICAL COMPONENT NOTES

- A. THE FOLLOWING ITEMS ARE TAKEN DIRECTLY FROM THE 2018 INTERNATIONAL BUILDING CODE AND FROM THE AMERICAN SOCIETY OF CIVIL ENGINEERS (ASCE) STANDARD 7. THE CONTRACTOR SHALL REFER TO THE ABOVE FOR ADDITIONAL INFORMATION, EXCEPTIONS, AND FURTHER DESCRIPTIONS. THE CONTRACTOR SHALL ADHERE TO REQUIREMENTS AND AS SUCH, SHALL BE INCLUDED WITHIN BID. ALSO REFER TO SPECIFICATIONS.
- B. <u>2018 IBC, 1613.1, SCOPE:</u> ARCHITECTURAL, MECHANICAL, ELECTRICAL, AND NON-STRUCTURAL COMPONENTS THAT ARE PERMANENTLY ATTACHED TO STRUCTURES AND THEIR SUPPORTS AND ATTACHMENTS SHALL BE DESIGNED AND CONSTRUCTED TO RESIST THE EFFECTS OF EARTHQUAKE MOTIONS IN ACCORDANCE WITH ASCE 7, EXCLUDING CHAPTER 14 AND APPENDIX 11A.
- C. <u>ASCE 7-02, 11A.1.2.2CONTRACTOR RESPONSIBILITY</u>: THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE CONSTRUCTION OF A SEISMIC-FORCE-RESISTING SYSTEM, DESIGNATED SEISMIC SYSTEM, OR COMPONENT LISTED IN THE QUALITY ASSURANCE PLAN SHALL SUBMIT A WRITTEN CONTRACTOR'S STATEMENT OF RESPONSIBILITY TO THE AUTHORITY HAVING JURISDICTION AND TO THE OWNER PRIOR TO THE COMMENCEMENT OF WORK ON THE SYSTEM OR COMPONENT. THE a. CONTRACTOR'S STATEMENT OF RESPONSIBILITY SHALL INCLUDE THE FOLLOWING:
- b. ACKNOWLEDGMENT OF AWARENESS OF THE SPECIAL REQUIREMENTS
   CONTAINED IN THE OUTLUTY ASSUBATION OF AND
- CONTAINED IN THE QUALITY ASSURANCE PLAN; c. ACKNOWLEDGMENT THAT CONTROL WILL BE EXERCISED TO OBTAIN CONFORMANCE WITH THE CONSTRUCTION DOCUMENTS APPROVED BY THE
- AUTHORITY HAVING JURISDICTION; d. PROCEDURES FOR EXERCISING CONTROL WITHIN THE CONTRACTOR'S ORGANIZATION, THE METHOD AND FREQUENCY OF REPORTING AND THE
- DISTRIBUTION OF THE REPORTS; AND
  e. IDENTIFICATION AND QUALIFICATIONS OF THE PERSON(S) EXERCISING SUCH CONTROL AND THEIR POSITION(S) IN THE ORGANIZATION.
- D. DIVISION 16 RESPONSIBILITIES:
- a. HANGERS AND SEISMIC BRACING FOR ELECTRICAL SYSTEMS SHALL BE DESIGNED AND SPECIFIED BY DIVISION 16. DIVISION 16 SHALL REFER TO THE ELECTRICAL DRAWINGS FOR LOCATIONS OF EQUIPMENT AND ELECTRICAL SYSTEMS AS STRUCTURAL DRAWINGS DO NOT SHOW THE LOCATIONS OF ELECTRICAL EQUIPMENT, RACEWAYS, AND OTHER COMPONENTS.
- DIVISION 16 SHALL COORDINATE THE SUPPORT SYSTEMS AND DESIGN LOADS FOR HUNG RACEWAYS AND OTHER ELECTRICAL SYSTEMS (INCLUDING COMBINED MULTIPLE RACEWAY RUNS) WITH THE GENERAL CONTRACTOR AND THE STEEL AND WOOD JOIST MANUFACTURERS IN ADDITION TO OTHER TRADES THAT MAY BE IMPACTED.

# ENERGY CODE NOTES

- A. RECORD DRAWINGS: SUBMIT TO THE BUILDING OWNER PER ENERGY CODE ENFORCED BY THE LOCAL AHJ.
- B. OPERATION AND MAINTENANCE MANUALS: SUBMIT TO THE BUILDING OWNER PER ENERGY CODE ENFORCED BY THE LOCAL AHJ.
- C. THIS BUILDING AND ITS ENERGY SYSTEMS HAVE BEEN DESIGNED TO COMPLY WI ENERGY CODE ENFORCED BY THE LOCAL AHJ. CONTRACTOR IS RESPONSIBLE FO CORRECT INSTALLATION OF ENERGY CONSERVATION MEASURES.
- D. LIGHTING CONTROL SYSTEMS COMMISSIONING AND COMPLETION REQUIREMENT TEST SYSTEMS TO ENSURE THAT BUILDING SYSTEMS HAVE BEEN INSTALLED AND FUNCTION PROPERLY AND EFFICIENTLY, AND CAN BE MAINTAINED IN ACCORDANCE WITH THE CONTRACT DOCUMENTS AND OPERATIONAL REQUIREMENTS PER ENERGY CODE ENFORCED BY THE AHJ. REFER TO SPECIFICATIONS FOR ADDITIONAL COMMISSIONING REQUIREMENTS.

# **GENERAL NOTES**

- A. PERFORM WORK IN ACCORDANCE WITH APPLICABLE NATIONAL AND STATE CODE AS AMENDED LOCALLY AND ENFORCED BY THE AHJ.
- B. OBTAIN AND PAY FOR PERMITS REQUIRED FOR INSTALLATION OF WORK. ARRANG AND SCHEDULE REQUIRED INSPECTIONS.
- C. DRAWINGS ARE DIAGRAMMATIC IN NATURE. PROVIDE COMPONENTS AS REQUIRE FOR A COMPLETE OPERATIONAL SYSTEM WHETHER OR NOT SPECIFICALLY SHOWN ON THE DRAWINGS.
- D. DEVICE LOCATIONS ARE APPROXIMATE. COORDINATE DEVICE LOCATIONS AND ELEVATIONS WITH APPROPRIATE DOCUMENTS INCLUDING CASEWORK SHOP DRAWINGS AND ARCHITECT'S INTERIOR ELEVATIONS PRIOR TO ROUGH-IN.
- E. COORDINATE ELECTRICAL WORK WITH THAT OF OTHER TRADES. REFER TO MECHANICAL, ARCHITECTURAL, STRUCTURAL, CIVIL, AND LANDSCAPE DRAWINGS AND SPECIFICATIONS. COORDINATION SHALL OCCUR PRIOR TO FABRICATION, PURCHASE, AND INSTALLATION OF WORK.
- 5. COORDINATE LOCATION OF LIGHT FIXTURES AND CEILING-MOUNTED DEVICES WITH ARCHITECTURALREFLECTED CEILING PLANS AND ELEVATIONS.
- G. PROVIDE RATED ENCLOSURES AROUND ALL LIGHT FIXTURES PENETRATING RATE CEILINGS. COORDINATE WITH ARCHITECTURAL.
- H. REFER TO ARCHITECTURAL AND STRUCTURAL DRAWINGS FOR LOCATIONS OF EXPANSION/SEISMIC JOINTS. PROVIDE RACEWAY EXPANSION/SEISMIC JOINTS FO RACEWAYS CROSSING BUILDING EXPANSION/SEISMIC JOINTS.
- I. DEMOLISH EXISTING SYSTEMS AS INDICATED ON PLANS OR AS REQUIRED FOR INSTALLATION OF NEWWORK. MATERIAL SHALL BE REMOVED FROM SITE ANDLEGALLY DISPOSED OF OFF SITE UNLESS OTHERWISE DIRECTED. RETURN ITEMS TO OWNER IN EXISTING CONDITION WHEN DIRECTED BY OWNER.
- COMPLETION OF WORK SHALL BE EXECUTED INACCORDANCE WITH THE PROJEC SCHEDULE. SCHEDULE INSTALLATION WITH OTHER TRADES TO ENSURE PROJEC MILESTONES ARE MET.
- K. THE ELECTRICAL DRAWINGS ARE DIAGRAMMATIC AND DO NOT NECESSARILY SHOW EVERY RACEWAY, BOX, CONDUCTOR, OR SIMILAR ITEMS FOR A COMPLETE INSTALLATION. PROVIDE ITEMS NECESSARY FOR COMPLETE AND OPERATIONAL ELECTRICAL SYSTEM.
- L. BRANCH CIRCUIT HOMERUNS ARE SHOWN TO INDICATE CIRCUIT PROPERTIES ANI CONFIGURATION. SINGLE-CIRCUIT HOMERUNS SERVED FROM THE SAME PANELBOARD MAY BE COMBINED IN ACCORDANCE WITH THE DIVISION SPECIFICATIONS, UNLESSINDICATEDOTHERWISE. EXTEND AND CONNECT BRANC CIRCUIT RACEWAY AND WIRING FROM HOMERUN TO DEVICES AND EQUIPMENT WITH CIRCUIT NUMBERS INDICATED. CONDUCTOR QUANTITIES AND SIZES ARE INDICATED AT HOMERUNS ONLY. SHOW ACTUAL RACEWAY ROUTING AND CIRCUITING ON RECORD DRAWINGS. MINIMUM CONDUCTOR SIZE #12 AWG.
- M. LIGHT FIXTURES MOUNTED IN CONTINUOUS ROWS SHALL BE THROUGH-WIRED V FIXTURE INTERNAL WIREWAYS. CIRCUITS AS INDICATED ON DRAWINGS. FIXTURE NOT LISTED FOR THROUGH WIRING SHALL BE WIRED VIA SEPARATE RACEWAY AND WIRING SYSTEM EXTERNAL TO THE FIXTURES. PROVIDE RACEWAYS, WIRING AND CONNECTIONS FOR A COMPLETE AND OPERATIONAL SYSTEM.
- N. PROVIDE BIDDER DESIGN FIRE ALARM SYSTEM MODIFICATIONS AS REQUIRED BY CODES ASSOCIATED WITH THE TENANT IMPROVEMENTS. REFER TO DIVISION 28 SPECIFICATIONS. DEVICES SHOWN ON DRAWINGS ARE FOR COORDINATION PURPOSES ONLY. PROVIDE ADDITIONAL DETECTION, NOTIFICATION AND SUPERVISORY DEVICES AS REQUIRED BY CODES.

| SYMBOL*        | DESCRIPTION                                                                                                                                                   |  |  |
|----------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------|--|--|
| \$             | SINGLE POLE SWITCH                                                                                                                                            |  |  |
| ×<br>\$        | SWITCH - 'X' INDICATES TYPE:33-WAY44-WAYDDIMMERTTIMERMMOTOR RATEDMCMOMENTARY CONTACTOCOCCUPANCY SENSORGGAS SHUT-OFFPPILOT-LIGHTEDEPOEMERGENCY POWER OFF       |  |  |
| a<br><b>\$</b> | SWITCHING CIRCUIT 'a', 'b', etc.<br>REFER TO LIGHTING FIXTURES ON PLANS.                                                                                      |  |  |
| 8              | OCCUPANCY SENSOR, CEILING MOUNTED                                                                                                                             |  |  |
| 8              | VACANCY SENSOR, CEILING MOUNTED                                                                                                                               |  |  |
| ⊗→             | OCCUPANCY SENSOR, WALL MOUNTED                                                                                                                                |  |  |
| Ð              | DAYLIGHT SENSOR, CEILING MOUNTED                                                                                                                              |  |  |
| 2. F<br>L      | TES:<br>NOT ALL SYMBOLS MAY BE USED.<br>REFER TO ARCHITECTURAL DRAWINGS FOR MOUNTING HEIGHT AND<br>LOCATION.<br>REFER TO SPECIFICATIONS FOR MORE INFORMATION. |  |  |

RELEASED FOR CONSTRUCTION

|                                              |                                                                                                                                                         | Lee's Summit, I<br>07/03/202 |
|----------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------|
| SYMBOL*                                      | ELECTRICAL SYMBOLS                                                                                                                                      |                              |
|                                              | REFER TO 'ELECTRICAL NOTES BY SYMBOL'                                                                                                                   | SATAD                        |
| 1<br>E201                                    | REFER TO DETAIL/VIEW '1' ON SHEET 'E201'                                                                                                                |                              |
| $\bigotimes$                                 | CONNECT TO EXISTING                                                                                                                                     |                              |
| <u>–––––––––––––––––––––––––––––––––––––</u> | HOMERUN TO PANELBOARD '1-P1' CIRCUITS 1 & 3                                                                                                             |                              |
| φ                                            | RECEPTACLE/DUPLEX, +18"AFF (OR AS INDICATED)                                                                                                            |                              |
| \$                                           | RECEPTACLE, QUAD, +18"AFF (OR AS INDICATED)                                                                                                             | ю<br>С                       |
| Φ                                            | 220V RECEPTACLE +18"AFF (OR AS INDICATED)                                                                                                               |                              |
| Φ                                            | RECEPTACLE FOR SPECIAL EQUIPMENT                                                                                                                        | 6 PROPOSED LOT               |
| GFI                                          | GROUND FAULT INTERRUPT PROTECTED DEVICE                                                                                                                 |                              |
| WP                                           | WEATHERPROOF DEVICE                                                                                                                                     |                              |
| 0                                            | FLOOR MOUNTED RECEPTACLE                                                                                                                                |                              |
| $\bigcirc$                                   | LOCATION OF FLOOR MOUNTED RECEPTACLE, COORDINATE DATA<br>REQUIREMENTS WITH TECHNOLOGY DRAWINGS. REFER TO<br>SPECIFICATIONS.                             | HIPM,<br>64086 F             |
| J                                            | JUNCTION BOX, 4" X 4" MINIMUM, WITH SINGLE GANG PLASTER RING & 1" CONDUIT(S) TURNED HORIZ. TO ABOVE CLG. WITH PROTECTIVE BUSHING AND PULL TAPE          | W CHIF<br>MIT, MO 64(        |
| HM                                           | MICROPHONE OUTLET @ 18" AFF.                                                                                                                            | O ≥ 0<br>> ± 0               |
| $\Diamond$                                   | DEVICE CLUSTER, FLAT SCREEN                                                                                                                             | 610 NW<br>EE'S SUMMIT        |
| <b></b>                                      | DEVICE CLUSTER, MEDIA CENTER                                                                                                                            | 10<br>'s sl                  |
| S                                            | AIR SENSOR<br>REFER TO MECHANICAL PLANS AND/OR ARCHITECTURAL<br>PLANS FOR TYPE, MOUNTING LOCATION AND ANY<br>ADDITIONAL REQUIREMENTS.                   | 61(                          |
| ØB                                           | DOORBELL PUSH BUTTON<br>REFER TO CONSULTANT PLANS AND/OR ARCHITECTURAL<br>PLANS FOR TYPE, MOUNTING LOCATION AND ANY<br>ADDITIONAL REQUIREMENTS.         |                              |
| 60                                           | DOORBELL CONTACT/TRANSFORMER<br>REFER TO CONSULTANT PLANS AND/OR ARCHITECTURAL<br>PLANS FOR TYPE, MOUNTING LOCATION AND ANY<br>ADDITIONAL REQUIREMENTS. |                              |
|                                              | EXHAUST FAN, CEILING MOUNTED                                                                                                                            |                              |
| ,[- — ]ı<br> ∟ ]ı                            | EXHAUST FAN, INLINE / ABOVE CEILING                                                                                                                     | SEAL                         |
|                                              | EXHAUST FAN, ROOFTOP                                                                                                                                    | SEAL                         |
|                                              | MECHANICAL EQUIPMENT (REFER TO MECHANICAL SCHEDULE<br>FOR MORE INFORMATION.                                                                             | CLAYTON<br>CLAYTON<br>LUCAS  |
|                                              | NON-FUSED DISCONNECT NEMA 1 (UNO). FOR AMP RATING, VOLTAGE<br>AND PHASE REFER TO PLANS.                                                                 | NUMBER<br>PE-2024000504      |

|      | AUXILIARY SYSTEM SYMBOLS                                                       |
|------|--------------------------------------------------------------------------------|
| FACP | FIRE ALARM CONTROL PANEL, COORDINATE EXACT LOCATION WITH LOCAL FIRE AUTHORITY. |
|      |                                                                                |

|      | LOCAL FIRE AUTHORITY.                                                               |
|------|-------------------------------------------------------------------------------------|
| FARA | FIRE ALARM REMOTE ANNUNCIATOR, COORDINATE EXACT LOCATION WITH LOCAL FIRE AUTHORITY. |

# FIRE ALARM SYSTEM NOTES

A. COORDINATE FINAL LOCATION OF ALL DEVICES WITH LIGHT AND HVAC SYSTEM DEVICES.

B. MAINTAIN CLEARANCES FROM ALL AIR MOVING DEVICES PER NFPA AND MANUFACTURER REQUIREMENTS.

C. CENTER DEVICES BETWEEN CEILING ELEMENTS AND CEILING AREAS.

D. EXACT LOCATION OF FIRE ALARM REMOTE ANNUNCIATOR TO BE APPROVED BY THE LOCAL FIRE MARSHALL.

E. ALL DEVICES TO BE INSTALLED PER ALL APPLICABLE CODES.

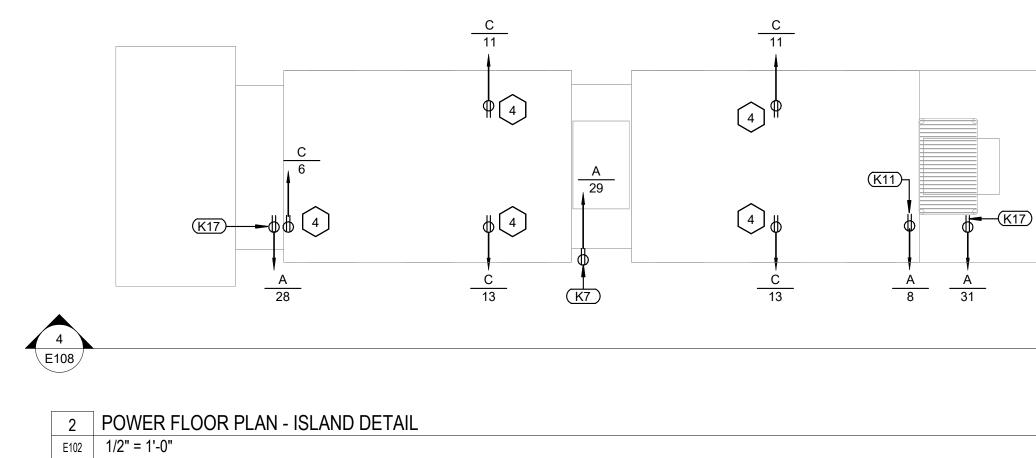
| 610 NW CHP<br>LEE'S SUMMIT, MO 640<br>PROTOTYPE V                                                                                                                                                                                       |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>O GEMINI</b><br>ENGINEERING GROUP                                                                                                                                                                                                    |
| SEAL                                                                                                                                                                                                                                    |
| CLAYTON<br>LUCAS<br>NUMBER<br>PE-2024000504                                                                                                                                                                                             |
| CONTRACTOR SHALL VERIFY ALL<br>CONDITIONS AND DIMENSIONS AT THE<br>JOB SITE AND NOTIFY THE ARCHITECT<br>OF ANY DIMENSIONAL ERRORS,<br>OMISSIONS OR DISCREPANCIES BEFORE<br>BEGINNING OR FABRICATING ANY WORK.<br>DO NOT SCALE DRAWINGS. |
| ISSUE DATE DESCRIPTION                                                                                                                                                                                                                  |
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| PROJECT INFORMATIONPROJECT NO:24-0087ORIGINAL ISSUE:10/06/2023SCALE:AS NOTEDDRAWN BY:JBCHECKED BY:CL                                                                                                                                    |
| SHEET TITLE                                                                                                                                                                                                                             |
| ELECTRICAL LEGEND<br>AND NOTES                                                                                                                                                                                                          |
| SHEET NUMBER                                                                                                                                                                                                                            |
| E101                                                                                                                                                                                                                                    |

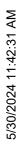
# KITCHEN GENERAL NOTES

- A. FINAL CONNECTION TO ALL HARD-WIRED EQUIPMENT SHALL BE MADE WITH "SEAL-TITE" FLEXIBLE CONDUIT.
- B. THE ELECTRICAL CONTRACTOR SHALL MAKE FINAL ELECTRICAL CONNECTIONS TO ALL RELATED EQUIPMENT.
- C. "CALL OUT" -INDICATES EQUIPMENT IDENTIFICATION NUMBER. REFER TO EQUIPMENT SCHEDULE. COORDINATE WITH EQUIPMENT SCHEDULE FOR ADDITIONAL INFORMATION.
- D. THE ELECTRICAL CONTRACTOR SHALL VERIFY ROUGH-IN REQUIREMENTS, LOCATIONS, MOUNTING HEIGHTS, VOLTAGE, PHASE, AMPS, HP, KW, ETC. FOR ALL EQUIPMENT PRIOR TO ROUGH-IN.
- E. PROVIDE SEAL-OFFS FOR ALL CONDUITS ENTERING OR LEAVING WALK-IN BOXES.
- ALL CIRCUIT BREAKERS PROVIDED WITH SHUNT TRIPPING DEVICES SHALL HAVE THE CONTROL CIRCUIT ROUTED THROUGH DRY CONTACTS PROVIDED IN THE FIRE PROTECTION SYSTEM. UPON ACTIVATION OF FIRE PROTECTION SYSTEM THOSE CIRCUIT BREAKERS SHALL BE AUTOMATICALLY TRIPPED.
- G. ALL CIRCUITS SHALL HAVE AN INSULATED GROUND WIRE (BOND) SIZED PER 2020 NEC 250.122, #12 MINIMUM GROUND, WIRE NOT SHOWN ON DRAWINGS.
- H. THE ELECTRICAL CONTRACTOR SHALL FURNISH AND INSTALL DISCONNECT SWITCHES, CONDUIT, WIRE AND INSTALL UNDER SUPERVISION OF THE EQUIPMENT SUPPLIER.
- THE ELECTRICAL CONTRACTOR SHALL VERIFY PLUG CONFIGURATIONS FOR APPLICABLE EQUIPMENT WITH SUPPLIER PRIOR TO ROUGH-IN.
- PROVIDE GFCI PROTECTION FOR ALL EQUIPMENT/KITCHEN RECEPTACLES PER 2017 NEC 210.8 (B)(2).

# MECHANICAL GENERAL NOTES

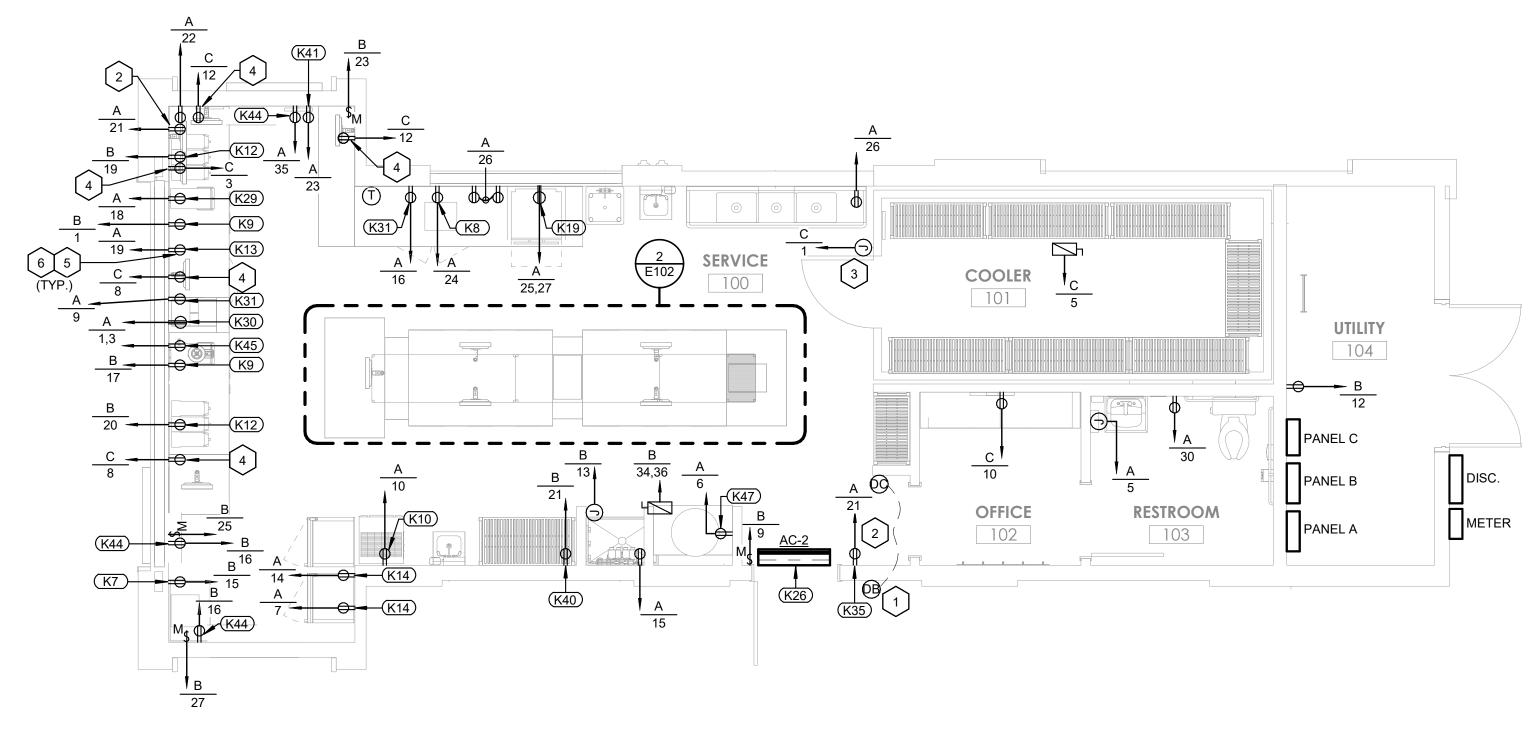
- A. VERIFY ALL MECHANICAL UNIT LOCATIONS WITH MECHANICAL PLANS.
- B. THE ELECTRICAL CONTRACTOR SHALL NOT MOUNT DISCONNECT EQUIPMENT DIRECTLY TO MECHANICAL UNITS FOR DISCONNECTS 200A AND LARGER. THE ELECTRICAL CONTRACTOR SHALL PROVIDE A SELF-SUPPORTING SYSTEM FOR DISCONNECT EQUIPMENT.
- PROVIDE WEATHERPROOF, HEAVY DUTY, NEMA 3R FUSIBLE DISCONNECT SWITCHES FOR ALL MECHANICAL UNITS LOCATED OUTSIDE.
- D. ALL EXTERIOR RECEPTACLES SHALL BE WEATHER RESISTANT GFCI (PASS & SEYMOUR 2095DSWRBK OR EQUAL), INTALLED IN A WEATHERPROOF ENCLOSURE WITH A WHILE IN USE COVERPLATE (PASS & SEYMOUR #WIUC10DCL OR EQUAL).
- EXHAUST FANS MOUNTED OUTSIDE SHALL HAVE A WEATHERPROOF DISCONNECT MOUNTED EXTERIOR TO THE UNIT. INTERNAL DISCONNECT SWITCHES SHALL NOT BE ALLOWED.





|        | -                                      |         |      | PMENT SC     |                  |                   |                                                                                                            |
|--------|----------------------------------------|---------|------|--------------|------------------|-------------------|------------------------------------------------------------------------------------------------------------|
| TAO // | DECODIDION                             |         |      |              |                  | MOUNTING          | NOTEO                                                                                                      |
| TAG #  | DESCRIPTION                            | VOLTAGE | LOAD | BREAKER SIZE | WIRE SIZE        | HEIGHT            | NOTES                                                                                                      |
| K7     | NITRO WARMER                           | 120 V   | 12 A | 20           | 3/4"C, 2#12,#12G | 42"               |                                                                                                            |
| K8     | SOUP WARMER                            | 120 V   | 10 A | 20           | 3/4"C, 2#12,#12G | 42"               |                                                                                                            |
| K9     | UNDER COUNTER ICE MAKER                | 120 V   | 12 A | 20           | 3/4"C, 2#12,#12G | 18"               |                                                                                                            |
| K10    |                                        | 120 V   | 11 A | 20           | 3/4"C, 2#12,#12G | 18"               |                                                                                                            |
| K11    | PANINI PRESS                           | 120 V   | 15 A | 20           | 3/4"C, 2#12,#12G | REFER TO<br>PLANS |                                                                                                            |
| K12    | LEMONADE DISPENSER                     | 120 V   | 9 A  | 20           | 3/4"C, 2#12,#12G | 42"               |                                                                                                            |
| K13    | DAIRY DISPENSER                        | 120 V   | 1 A  | 20           | 3/4"C, 2#12,#12G | 42"               |                                                                                                            |
| K14    | BEVERAGE COOLER                        | 120 V   | 5 A  | 20           | 3/4"C, 2#12,#12G | 18"               |                                                                                                            |
| K17    | FOOD PREP TABLE                        | 120 V   | 7 A  | 20           | 3/4"C, 2#12,#12G | REFER TO<br>PLANS |                                                                                                            |
| K19    | MICROWAVE                              | 208 V   | 27 A | 30           | 3/4"C, 3#10,#10G | 42"               |                                                                                                            |
| K21    | WALK-IN COOLER                         | 208 V   | 11 A | 20           | 3/4"C, 2#12,#12G | REFER TO<br>PLANS | PROVIDE 30A/2P NE<br>DISCONNECT                                                                            |
| K26    | 42" MARS AIR<br>CURTAIN                | 120 V   | 2 A  | 20           | 3/4"C, 2#12,#12G | 96"               |                                                                                                            |
| K29    | ICE TEA BREWER                         | 120 V   | 14 A | 20           | 3/4"C, 2#12,#12G | 42"               |                                                                                                            |
| K30    | FROZEN BEV DISPENSER                   | 208 V   | 29 A | 30           | 3/4"C, 3#10,#10G | 42"               |                                                                                                            |
| K31    | REACH-IN COOLER                        | 120 V   | 3 A  | 20           | 3/4"C, 2#12,#12G | 18"               | SIMPLEX RECEPTA                                                                                            |
| K35    | WALL FAN                               | 120 V   | 2 A  | 20           | 3/4"C, 2#12,#12G | 92"               |                                                                                                            |
| K36    | WATER FILTER                           | 120 V   | 16 A | 20           | 3/4"C, 2#12,#12G | 84"               | PROVIDE 2 WATER<br>FOR FILTERED WAT<br>SOFTWATER                                                           |
| K39    | SECURITY VCR                           | 120 V   | 3 A  | 20           | 3/4"C, 2#12,#12G | 18"               |                                                                                                            |
| K40    | MUSIC SYSTEM                           | 120 V   | 3 A  | 20           | 3/4"C, 2#12,#12G | 18"               |                                                                                                            |
| K41    | DRIVE THRU DETECTOR                    | 120 V   | 2 A  | 20           | 3/4"C, 2#12,#12G | 18"               |                                                                                                            |
| K44    | DRIVE THRU WINDOW AND SERVING<br>SHELF | 120 V   | 5 A  | 20           | 3/4"C, 2#12,#12G | 42"               |                                                                                                            |
| K45    | BREWER SERVER SOFT HEAT                | 120 V   | 3 A  | 20           | 3/4"C, 2#12,#12G | 42"               |                                                                                                            |
| K47    | WATER SOFTNER                          | 120 V   | 16 A | 20           | 3/4"C, 2#12,#12G | 18"               | PROVIDE POWER F<br>FUTURE WATER SC<br>COORDINATE EXAC<br>LOCATION WITH OV<br>ARCHITECT<br>PRIOR TO INSTALL |

| ELE   | ECTRICAL | DISC  | ONNE       | CT S  | CHE  | DULE            |
|-------|----------|-------|------------|-------|------|-----------------|
| Mark  | Count    | Panel | DISC       | W. P. | WALL | ABV.<br>CEILING |
| CU-1  | 1        | С     | 2P/30/20AF | •     |      |                 |
| RTU-1 | 1        | A     | 3P/60A     | •     |      |                 |



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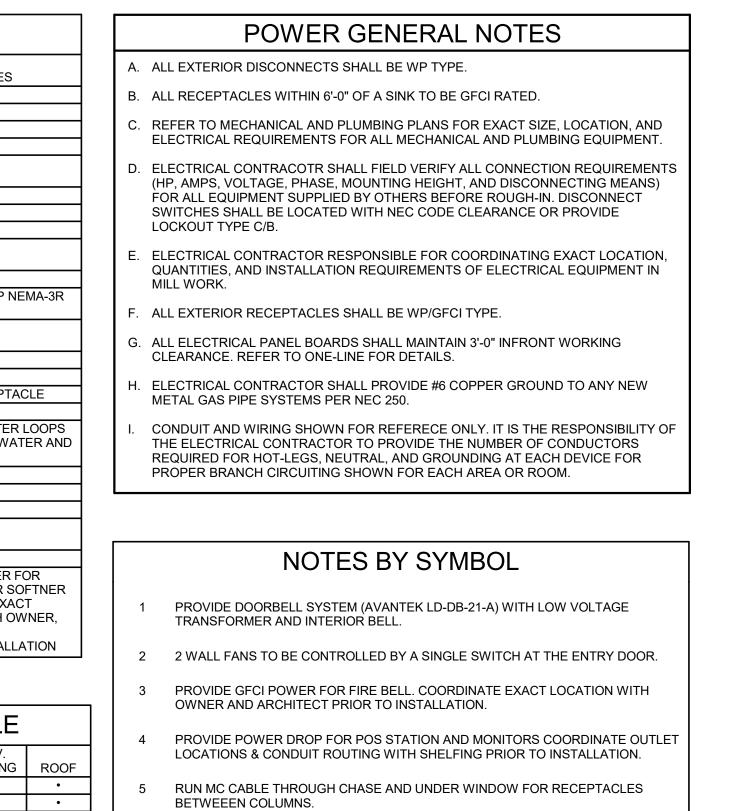
**VERSION V2**.

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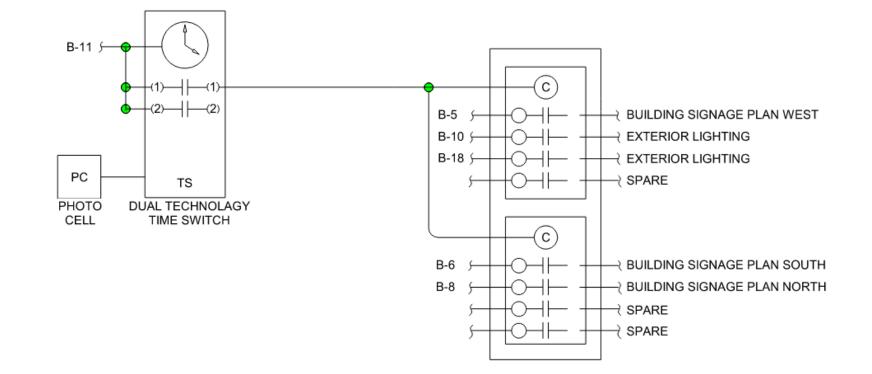
6 WEATHER RATED WATERPROOF RECEPTACLES ALONG DRINK LINE. PROVIDE BUBBLE COVERS FOR ALL RECEPTACLES.

|                                                                                                                 | 610 NW CHIPMA                                     | LEE'S SUMMIT, MO 64086 PR                                      | PROTOTYPE VERSION                                   |
|-----------------------------------------------------------------------------------------------------------------|---------------------------------------------------|----------------------------------------------------------------|-----------------------------------------------------|
|                                                                                                                 |                                                   |                                                                |                                                     |
| * PROFILES                                                                                                      | OF MISION                                         | 500 N × NH = 1<br>504 V 504                                    |                                                     |
| CONTRACTO<br>CONDITIONS A<br>JOB SITE AND<br>OF ANY DIN<br>OMISSIONS OR<br>BEGINNING OR<br>DO NOT<br>ISSUE DATE | ND DIMI<br>NOTIFY<br>IENSION<br>DISCRE<br>FABRICA | ENSIONS<br>THE AR<br>NAL ERR<br>PANCIES<br>ATING AN<br>DRAWING | S AT THE<br>CHITECT<br>ORS,<br>S BEFORE<br>NY WORK. |
|                                                                                                                 |                                                   |                                                                |                                                     |
| PROJECT INF<br>PROJECT NO:<br>ORIGINAL ISSUE<br>SCALE:<br>DRAWN BY:<br>CHECKED BY:<br>SHEET TITLE               |                                                   |                                                                | 24-0087<br>09/06/2022<br>AS NOTED<br>JB<br>CL       |
| POWER                                                                                                           | FLO                                               | OR F                                                           | PLAN                                                |
| E                                                                                                               | 10                                                | 2                                                              |                                                     |

|      |                 |                                              |         | LIGI      | HT FIXTURE SCHEI | JULE           |             |                                                                                                                                                         |
|------|-----------------|----------------------------------------------|---------|-----------|------------------|----------------|-------------|---------------------------------------------------------------------------------------------------------------------------------------------------------|
| MARK | MANUFACTURER    | MODEL                                        | VOLTAGE | REF. NOTE | MOUNTING         | TOTAL<br>WATTS | LAMP TYPE   | REMARKS                                                                                                                                                 |
| D    | HALO            | SMD6RTRMWH                                   | UNV     | 1,3,4     | SURFACE          | 13             | LED         | 6" ROUND LED DOWNLIGHT, SURFACE MOUNT, 120V DRIVER, WHITE FINISH - INSTALLED ONTO JUNCTION BOX                                                          |
| DE   | HALO            | SMD6RTRMWH W/90 MINUTE BODINE BATTERY BACKUP | UNV     | 1,3,4     | SURFACE          | 13             | LED         | 6" ROUND LED DOWNLIGHT, SURFACE MOUNT, 120V DRIVER, WHITE FINISH - INSTALLED ONTO JUNCTION BOX                                                          |
| EX   | EXITRONIX       | QCRS U WH                                    | UNV     | 2         | SURFACE          | 1              | LED         | COMBO LED EXIT SIGN, WET LOCATION, FIELD SELECTABLE RED/GREEN LEDS, TWO (2) 0.5W FUL ADJUSTABLE ROUND HEADS WITH HIGH-INTENSITY LED LAMPS, WHITE FINISH |
| G4   | SATCO           | NUVO 65-572                                  | UNV     | 3         | RECESSED         | 50             | LED         | 2X4 LED BACKLIT FLAT PANEL, SELECTABLE COLOR TEMP, IP20 DAMP LISTED, DIMMABLE, WHITE FINISH                                                             |
| G4E  | SATCO           | NUVO 65-572 LUMEN BATTERY                    | UNV     | 3         | RECESSED         | 50             | LED         | 2X4 LED BACKLIT FLAT PANEL, SELECTABLE COLOR TEMP, IP20 DAMP LISTED, DIMMABLE, WHITE FINISH                                                             |
| S4   | SATCO           | NUVO 65-573 + 65-592                         | UNV     | 3         | PENDENT/SURFACE  | 40             | LED         | 1X4 LED BACKLIT FLAT PANEL, SELECTABLE COLOR TEMP, IP20 DAMP LISTED, DIMMABLE, WHITE FINISH + SUSPENSION KIT                                            |
| S4E  | SATCO           | NUVO 65-573 + 65-592 LUMEN BATTERY           | UNV     | 3         | PENDENT/SURFACE  | 40             | LED         | 1X4 LED BACKLIT FLAT PANEL, SELECTABLE COLOR TEMP, IP20 DAMP LISTED, DIMMABLE, WHITE<br>FINISH + SUSPENSION KIT, WITH 90 MINUTE BATTERY BACK-UP         |
| T1   | NOVA FLEX       | NF-PRO-O-60-24V-4100K                        | UNV     | 1         | SURFACE          | 135            | LED         | LED TAPE LIGHT, 4100K, NO DOTTING CHANNEL, WET LOCATION RATED                                                                                           |
| W    | RAB             | SLIM 18 N                                    | UNV     | 1,3       | SURFACE          | 18             | LED         | WALL PACK, FULL CUTOFF, 4000K (NEUTRAL) COLOR TEMP, 2547LM, BRONZE FINISH W/ 90 MINUT BATTERY BACK-UP                                                   |
| WS   | CAMMAN LIGHTING | W425-24-40K-1-WM-PBR                         | UNV     | 1,3       | WALL             | 20             | WALL SCONCE | WALL SCONCE, WHITE ACRYLIC FRONT, SHALLOW PROFILE 24", 4000K, 120V, MATTE WHITE ACRYLIC, BRONZE FIXTURE                                                 |

# Key Name

| Name | LIGHT FIXTURE NOTES                                                                                                                         |
|------|---------------------------------------------------------------------------------------------------------------------------------------------|
| *    | NOTE: SALAD AND GO HAS A NATIONAL ELECTRICAL AGREEMENT WITH CONSOLIDATED ELECTRICAL DISTRIBUTORS, INC. (CED).                               |
|      | THE GENERAL CONTRACTOR IS RESPONSIBLE FOR PROVIDING AND INSTALLING THE LED LIGHTING EQUIPMENT, AND SHOULD PURCHASE FROM CED ACCORDING       |
|      | QUESTIONS CONCERNING QUOTES, PRICING, AND TECHNICAL SPECIFICATIONS SHALL BE DIRECTED TO DAVID RASH, CED NATIONAL ACCOUNTS, VIA EMAIL david. |
| 1    | VERIFY MOUNTING HEIGHT WITH ARCHITECT AND COORDINATE CORRESPONDING PENDANT MOUNTING HARDWARE LENGTH WITH FIXTURE MANUFACTURER.              |
| 2    | EXIT SIGNS. PROVIDE ALL DIRECTIONAL ARROWS. DOUBLE FACEPLATES. OR BLANK FACEPLATES AS REQUIRED TO CLEARLY IDENTIFY PATH OF EGRESS. COORDI   |
| 3    | FIXTURE TO HAVE FINISH AS SPECIFIED BY ARCHITECT.                                                                                           |
| 4    | PROVIDE ALL MOUNTIING CLIPS, JOINTS, AND ANY OTHER NESSARY APPURTENANCES FOR ROW MOUNTING.                                                  |
| 5    | COORDINATE MOUNTING LOCATION OF REMOTE POWER SUPPLY WITH ARCHITECT. LOCATE IN ACCESSIBLE SPACE ABOVE 12"AFF.                                |
| 6    | COORDINATE MOUNTING LOCATION OF REMOTE POWER SUPPLY WITH ARCHITECT. LOCATE ON TOP OF REFRIGERATION CASE, NOT VISIBLE FROM BELOW.            |
| 7    | LOCATE FIXTURE WITHIN MOUNTING CHANNEL LOCATED ABOVE REFRIGERATION CASE. CHANNEL FURNISHED BY OTHERS.                                       |
| 8    | LIGHT FIXTURE FURNISHED WITH COOLER AND INSTALLED BY CONTRACTOR. COORDINATE INSTALLATION WITH COOLER MANUFACTURER PRIOR TO ROUGH-IN.        |
| -    |                                                                                                                                             |

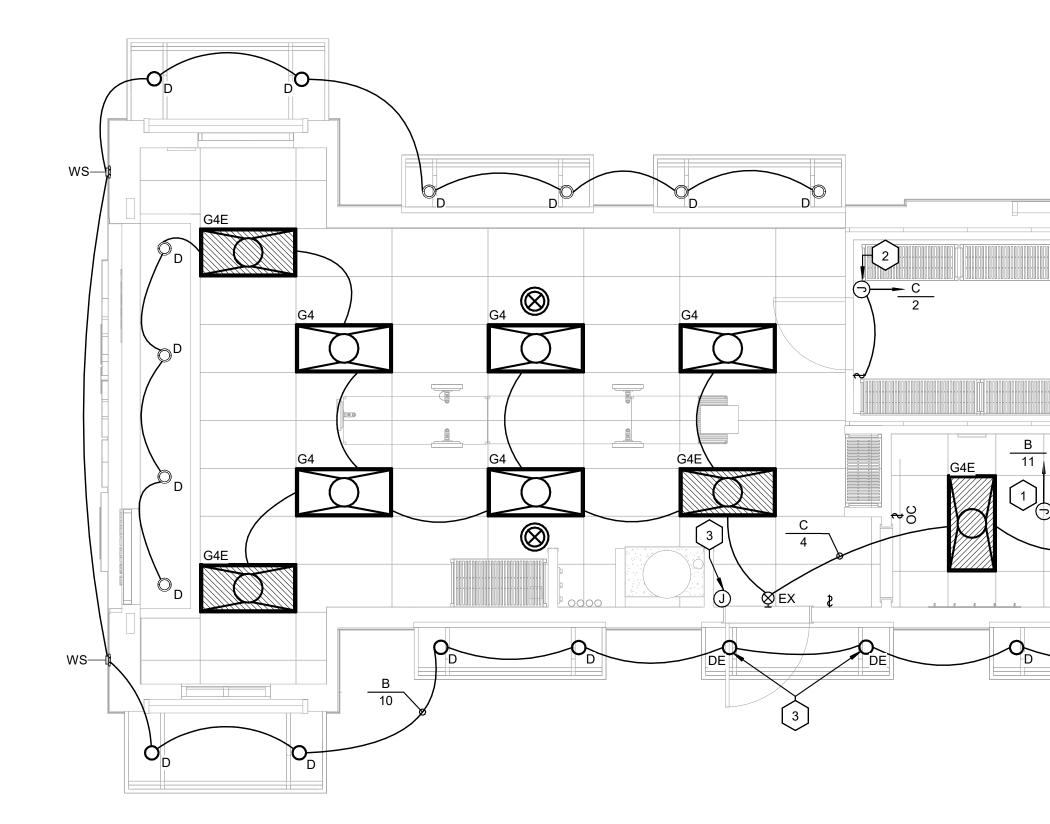


2 LIGHTING CONTROLS E103 N.T.S.

LIGHT FIXTURE NOTES

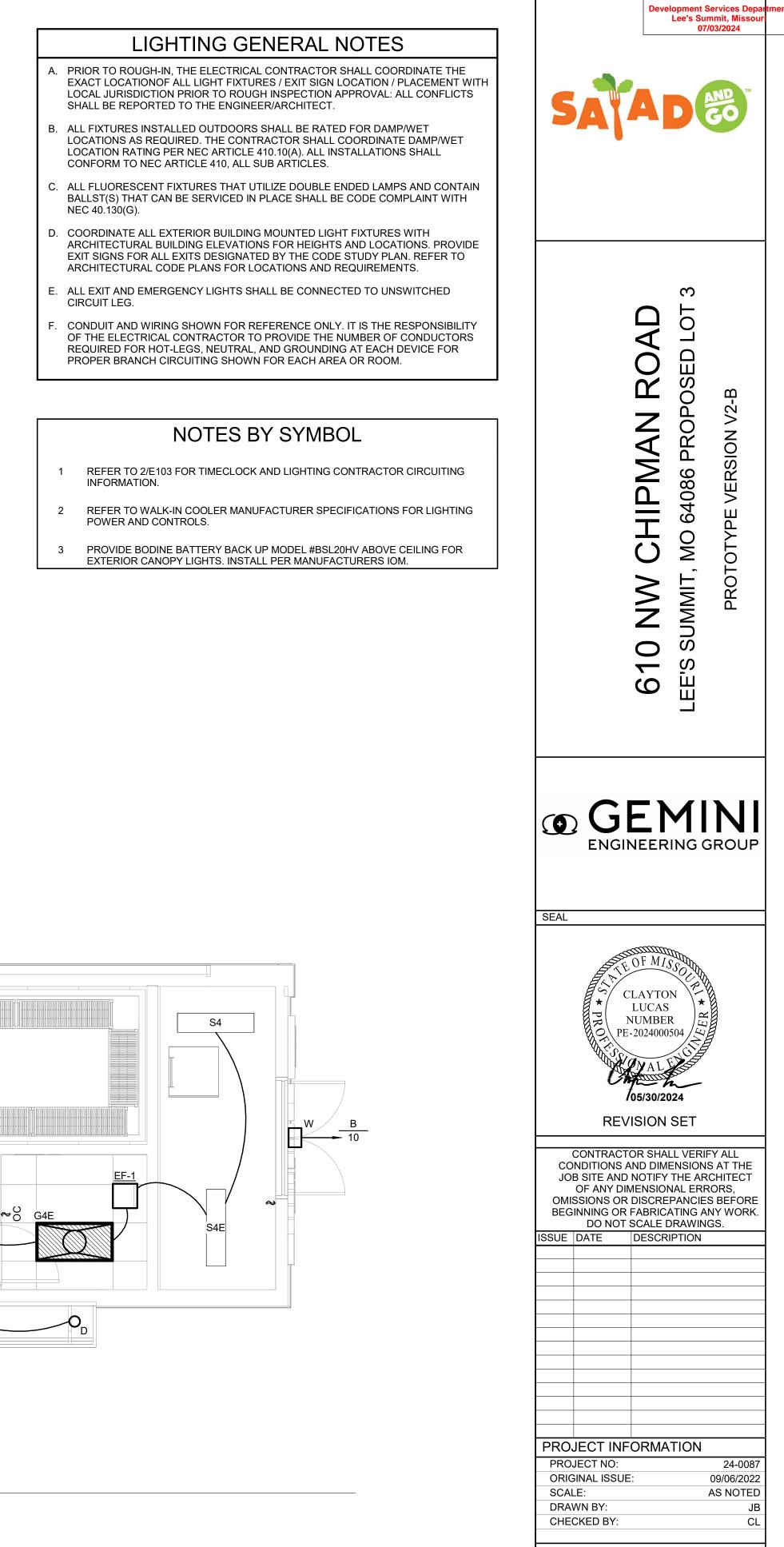
ATIONS SHALL BE DIRECTED TO DAVID RASH, CED NATIONAL ACCOUNTS, VIA EMAIL david.rash@ced.com OR BY TELEPHONE (817) 480-1171

PONDING PENDANT MOUNTING HARDWARE LENGTH WITH FIXTURE MANUFACTURER. OR BLANK FACEPLATES AS REQUIRED TO CLEARLY IDENTIFY PATH OF EGRESS. COORDINATE MOUNTING TYPE WITH REFLECTED.



1 LIGHTING FLOOR PLAN E103 1/4" = 1'-0"

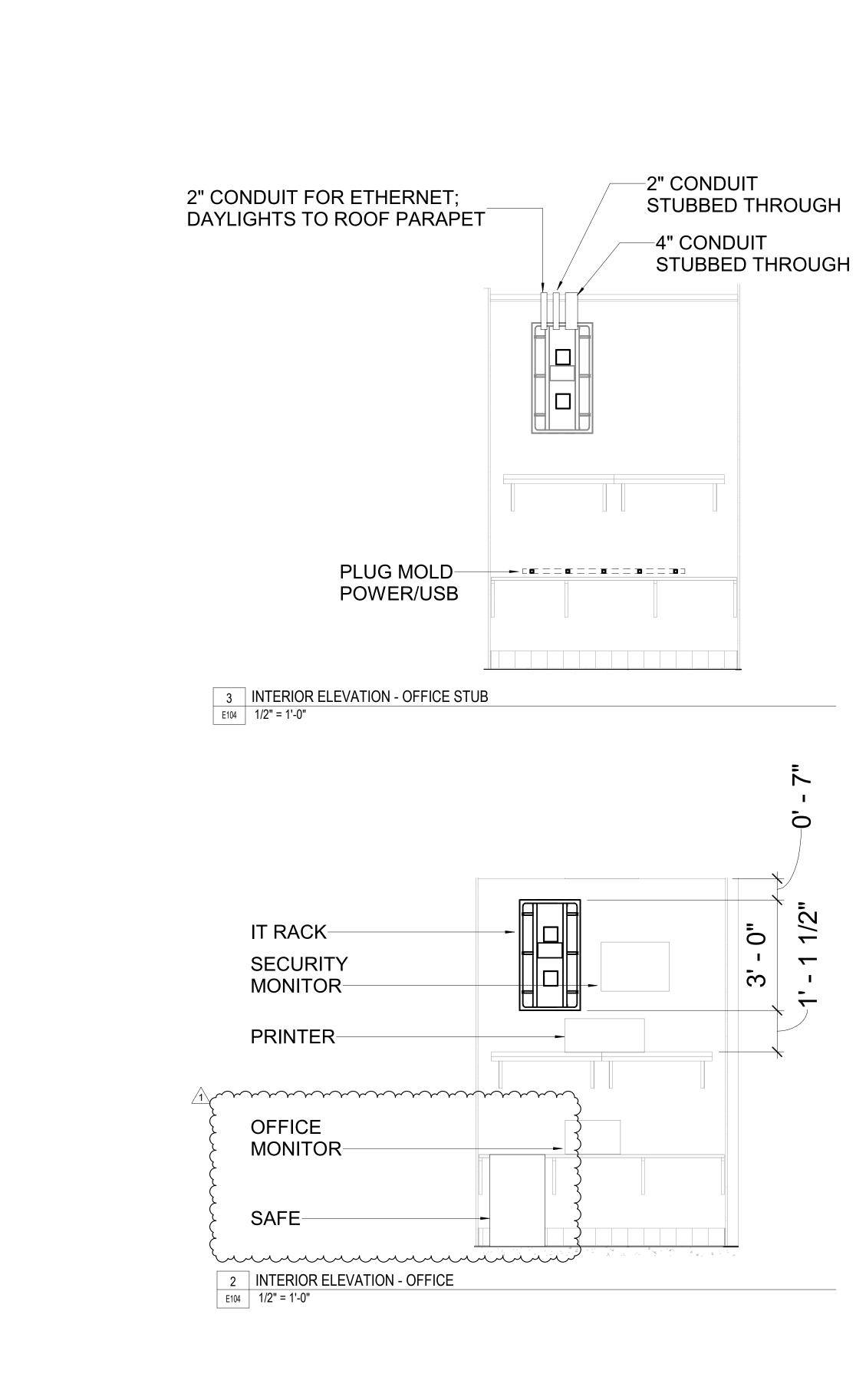
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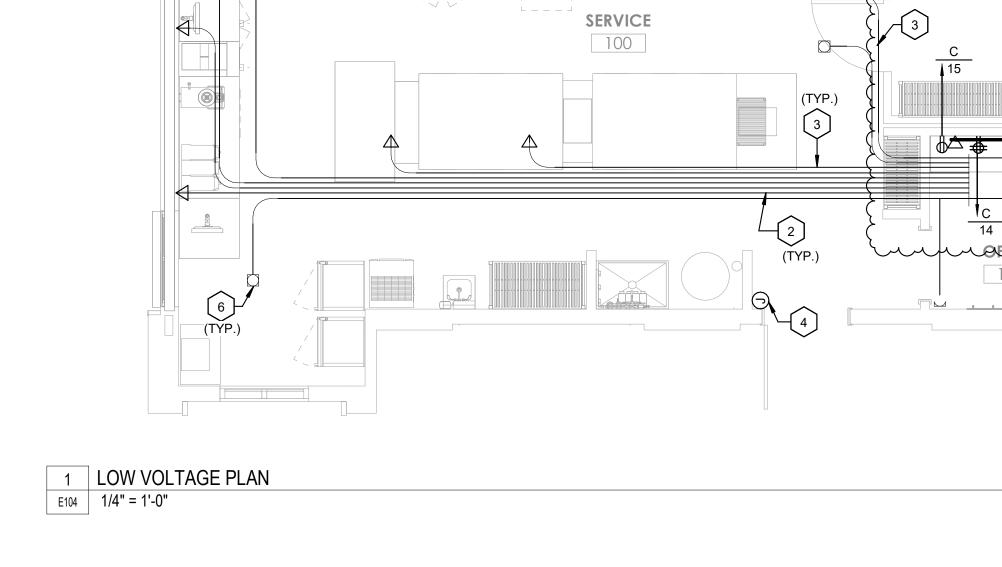


SHEET TITLE

LIGHTING FLOOR PLAN SHEET NUMBER

E103





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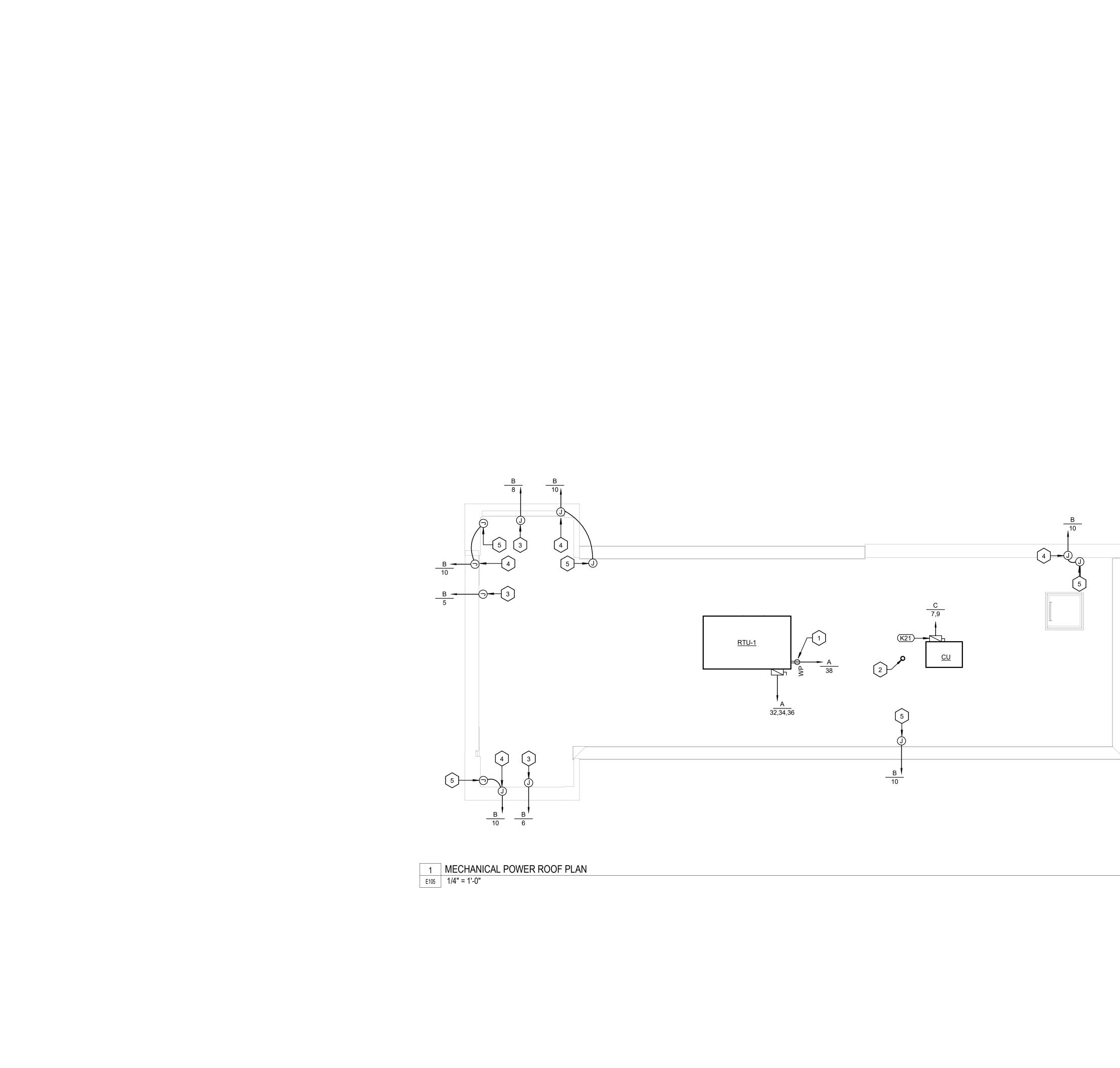
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RELEASED FOR CONSTRUCTION velopment Services Depa Lee's Summit, Missour 07/03/2024 **GENERAL NOTES** A. ALL LOW VOLTAGE CABILING TO BE SUSPENDED SECURLY TO STRUCTURE; DO NOT SUSPEND OR ATTACH TO GRID. B. ALL RUNS SHOWN AS CAT 5E. C. ALL CABLE: EXTRA LENGTH OF CABLE COIL 5' ABOVE CEILING PRIOR TO CONNECTION POINT, BEFORE TURNING DOWN WALL TO MAKE CONNECTION. D. ALL DRINK LINE RECEPTACLES TO HAVE WATERPROOF COVERS. GC TO VERIFY AFTER INSTALLATION. NOTES BY SYMBOL 1 PLUGMOLD 2000 SERIES STEEL MULTIOUTLET SYSTEM (OR SIMILAIR). STANDARD RECEPTACLES AND USB; LAYOUT TO BE DETERMINED BY GC. З CHIPMAN ROAD 2 1-1/2" CONDUIT FOR DATA CABLING. Ö 3 1" CONDUIT FOR DATA CABLING. 64086 PROPOSED 4 PROVIDE J-BOX WITH CONDUIT STUBBED ABOVE WALL FOR FUTURE ALARM KEYPAD. PROTOTYPE VERSION V2-B PROVIDE J-BOX @ 9'-0" AFF FOR EXTERIOR WALL MOUNTED SECURITY CAMERA. ROUTE CONDUIT TO SERVER RACK. COORDINATE LOCATIONS AND HEIGHTS WITH EXTERIOR AWNINGS. GC TO VERIFY. 6 SECURITY CAMERA MOUNTED FLUSH TO CEILING. ROUTE CONDUIT TO SERVER RACK. GC TO VERIFY. ОМ SUMMIT, MN 610 LEE'S GEMINI
 ENGINEERING GROUP 5 CLAYTON LUCAS NUMBER Q PE-2024000504 / € UTILITY 05/30/2024 104 **REVISION SET** CONTRACTOR SHALL VERIFY ALL CONDITIONS AND DIMENSIONS AT THE JOB SITE AND NOTIFY THE ARCHITECT OF ANY DIMENSIONAL ERRORS, OMISSIONS OR DISCREPANCIES BEFORE

 $\langle \mathcal{A} \rangle$ COOLER 101 RESTROOM **UNDEFICE** 103 102 (5)

5

BEGINNING OR FABRICATING ANY WORK. DO NOT SCALE DRAWINGS. ISSUE DATE DESCRIPTION 5/30/24 REVISION 1 PROJECT INFORMATION PROJECT NO: 24-0087 ORIGINAL ISSUE: 12/06/22 AS NOTED SCALE: DRAWN BY: CHECKED BY: SHEET TITLE LOW VOLTAGE PLAN SHEET NUMBER E104

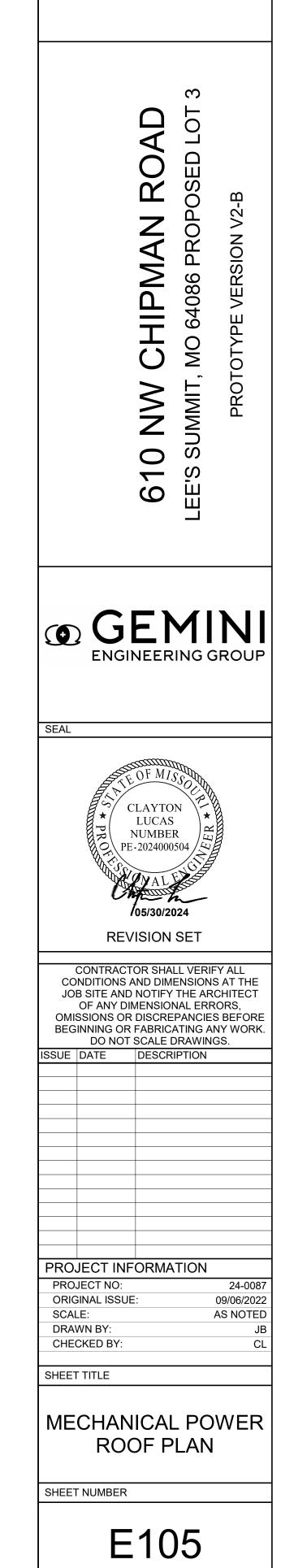


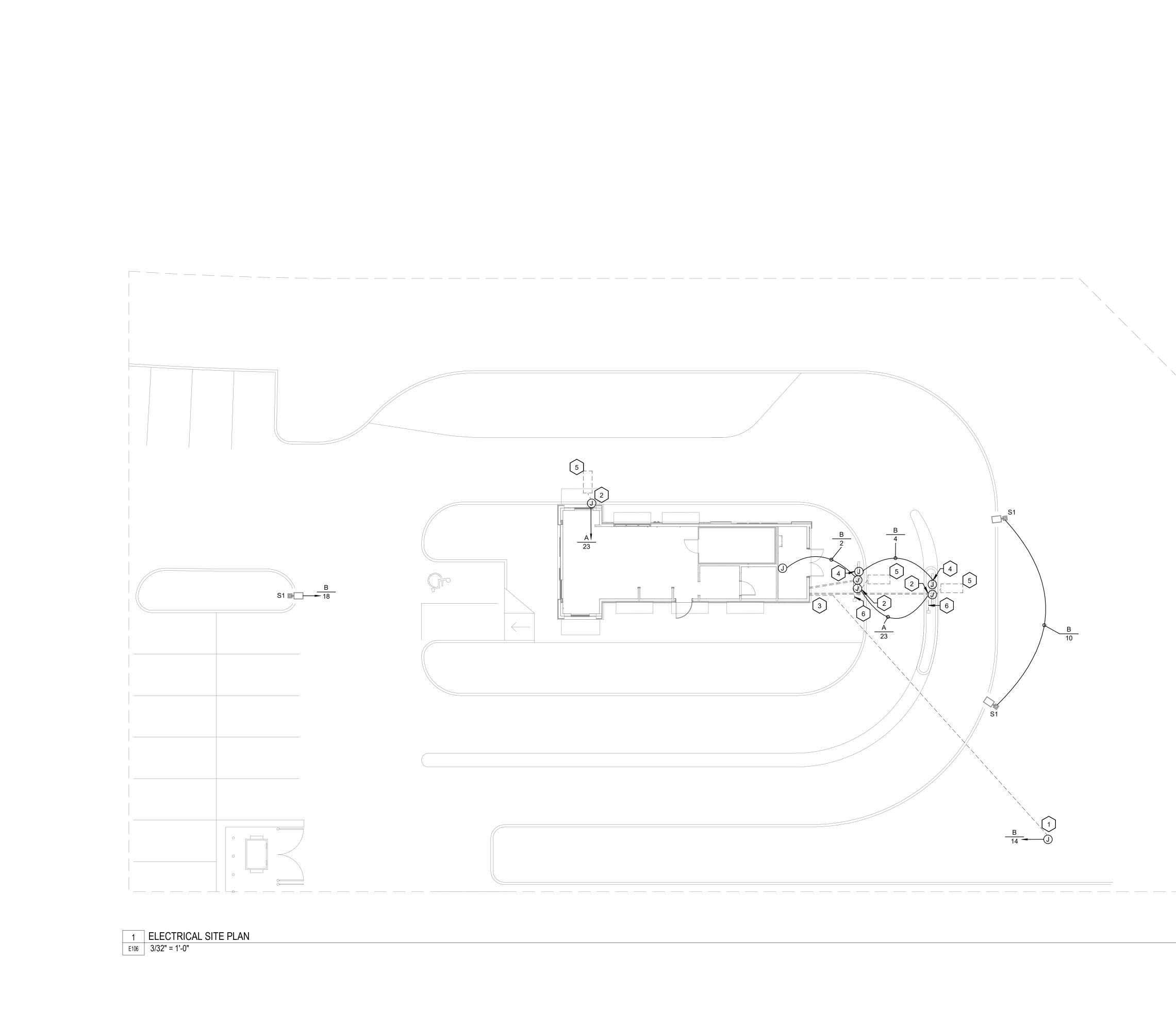
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# NOTES BY SYMBOL

- 1 PROVIDE GFCI MAINTENANCE RECEPTACLE WITHIN 25' OF ALL MECHANICAL EQUIPMENT PER NEC 210.63.
- 2 APPROXIMATE LOCATION OF IT STUB OUT. TO BE CAPPED UNTIL EQUIPMENT INSTALLATION. GC TO PROVIDE PULL STRING IN CONDUIT FOR EASE OF INSTALLATION.
- 3 PROVIDE WP J-BOX AND TOGGLE SWITCH LOCATED ON SIGN IN CONCEALED LOCATION FOR EXTERIOR SIGNAGE PER NEC. COORDINATE EXACT LOCATIONS PRIOR TO INSTALLATION, EXTEND CIRCUIT THROUGH PHOTOCELL TIME CLOCK. VERIFY EXACT REQUIREMENTS WITH OWNER.
- 4 (DI-24-VLX5-40-XX-16-BL-MC-O/O) (DRIVER: VLM200W-24-LPL). NO MORE THAN 40 FEET BETWEEN DRIVERS. TAPE TO BE PLACE ON INSIDE PERIMETER OF ALL 3 SIDES OF BOXOUT. REFER TO ARCHITECTURAL SHEET A131. CLASS 3 TAPE LIGHT TO BE ON BETWEEN THE HOURS OF 6 A.M-9 P.M. ONLY.
- 5 PROVIDE JBOX FOR EXTERIOR PERIMETER COPE TAPE LIGHT (DI-24-VLX5-40-XX-16-BL-MC-O/O) (DRIVER: VLM200W-24-LPL). NO MORE THAN 40 FEET BETWEEN DRIVERS. TAPE TO BE PLACE ON INSIDE PERIMETER OF ALL 3 SIDES OF BOXOUT. REFER TO ARCHITECTURAL SHEET A201. CLASS 3 TAPE LIGHT TO BE ON BETWEEN THE HOURS OF 6 A.M-9 P.M. ONLY.

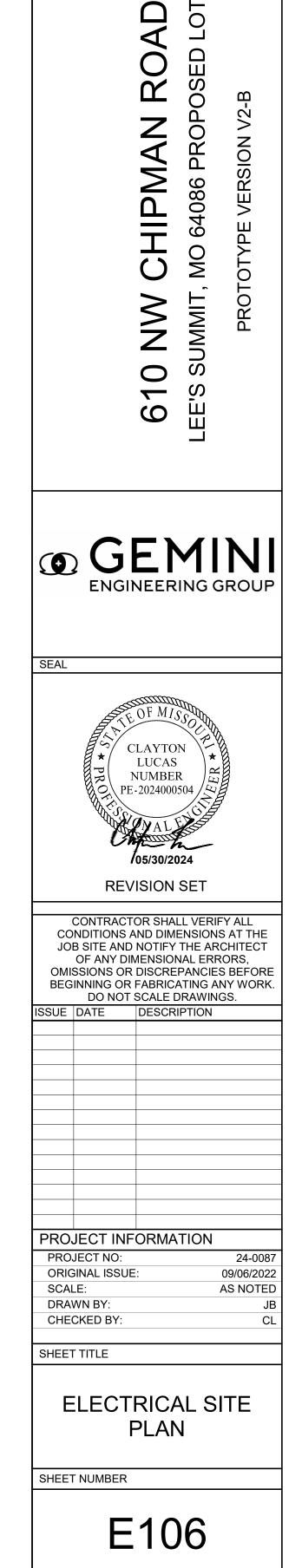


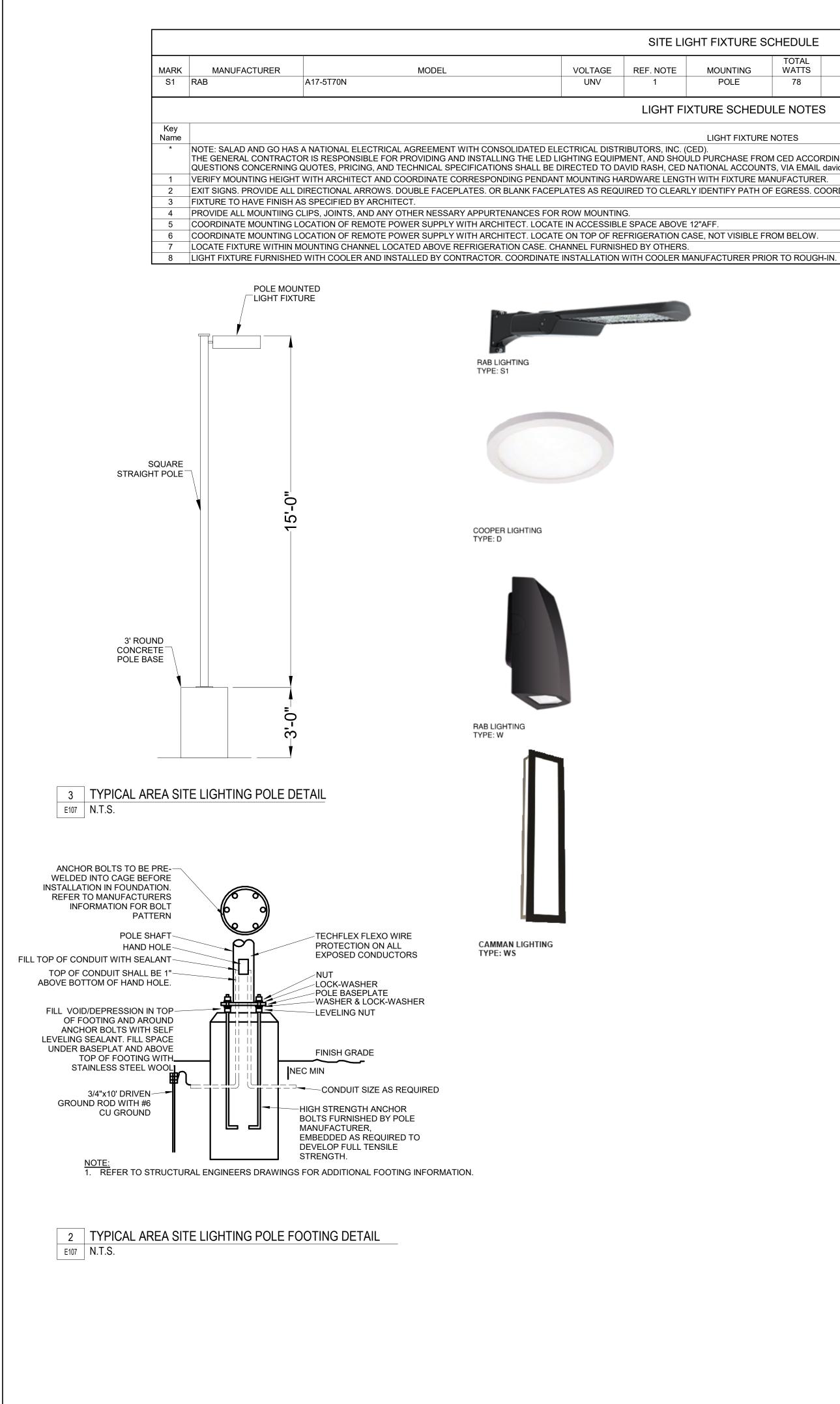


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- APPROXIMATE LOCATION OF MARQUEE SIGN. CONTRACTOR TO COORDINATE EXACT LOCATION WITH ARCHITECT/OWNER PRIOR TO BID. PROVIDE (1) 1" CONDUIT FROM MARQUEE SIGN BACK TO ELECTRICAL ROOM. VERIFY ROUTING WITH CIVIL PRIOR TO INSTALLATION.
   PROVIDE JBOX FOR DRIVE-THRU DETECTOR. INSTALL PER MANUFACTURER'S SPECIFICATIONS. PROVIDE 1" PVC CONDUIT FOR LOW VOLTAGE RUN TO MANAGER'S OFFICE.
- 3 LOCATION OF MAIN SERVICE DISCONNECT AND PANELS. REFER TO RISER DIAGRAM ON E110 FOR MORE INFORMATION.
- 4 PROVIDE JBOX FOR MENU BOARD. INSTALL PER MANUFACTURER'S SPECIFICATIONS. PROVIDE 1" PVC CONDUIT FOR 120V POWER SUPPLY FROM BUILDING.
- 5 WIRE MAGNETIC LOOP UNDER DRIVE-THRU.
- 6 PROVIDE 1" PVC CONDUIT FOR LOW VOLTAGE RUN BETWEEN SPEAKER POST AND MENU BOARD.





| LIC   | GHT FIXTURE SC                                 | CHEDULE        |                 |                                                                                                                                                       |
|-------|------------------------------------------------|----------------|-----------------|-------------------------------------------------------------------------------------------------------------------------------------------------------|
| E     | MOUNTING                                       | TOTAL<br>WATTS | LAMP SIZE       | REMARKS                                                                                                                                               |
|       | POLE                                           | 78             | LED             | LED AREA LIGHT, TYPE V SYMMETRICAL DISTRIBUTION (360*), 4000K, 0-10V DIMMING, WET LISTED, BRONZE FINISH. 15'-0" ALUMINUM POLE RAB MODEL # PS4-11-15D2 |
| · FI) | KTURE SCHEDU                                   | LE NOTES       | S               |                                                                                                                                                       |
|       | LIGHT FIXTURE                                  | NOTES          |                 |                                                                                                                                                       |
| HOÙ   | CED).<br>ILD PURCHASE FROM<br>NATIONAL ACCOUNT |                |                 | OR BY TELEPHONE (817) 480-1171                                                                                                                        |
| NGT   | H WITH FIXTURE MAI                             | NUFACTURE      | R.              |                                                                                                                                                       |
| ARL   | Y IDENTIFY PATH OF                             | EGRESS. CO     | OORDINATE MOUNT | NG TYPE WITH REFLECTED.                                                                                                                               |
|       |                                                |                |                 |                                                                                                                                                       |
|       |                                                |                |                 |                                                                                                                                                       |
| DVE   | 12"AFF.                                        |                |                 |                                                                                                                                                       |
| N CA  | ASE, NOT VISIBLE FR                            | OM BELOW.      |                 |                                                                                                                                                       |
| ERS.  |                                                |                |                 |                                                                                                                                                       |

Calculation Summary

Label

PERIMETER

SITE

Luminaire Schedule

| Symbol           | Qty | Label           | Description                                       | Тад | Total<br>Watts | Mounting<br>Height | BUG Rating |
|------------------|-----|-----------------|---------------------------------------------------|-----|----------------|--------------------|------------|
|                  | 1   | RAB LIGHTINGS   | SLIM18N                                           | W   | 20.8           | 12                 | B1-U0-G0   |
|                  | 14  | COOPER LIGHTING | RECESSED CANOPY LIGHTS                            | D   | 173.869        | 12                 | B1-U1-G0   |
| $[] \rightarrow$ | 3   | RAB LIGHTING    | RECTANGULAR LED SINGLE HEAD<br>POLE MOUNTED LIGHT | S1  | 212.43         | 18                 | B3-U0-G3   |
|                  | 2   | CAMMAN LIGHTING | WALL MOUNTED SCONCE                               | WS  | 36.28          | 5                  | B0-U4-G2   |

|     | 0.1              | 0.1              | 0.1                | 0.1              | 0.1              | 0.1              | 0.1              | 0.1              | 0.1                                 | 0.1                   | 0.1              | 0.1              | 0.1              | 0.1              |
|-----|------------------|------------------|--------------------|------------------|------------------|------------------|------------------|------------------|-------------------------------------|-----------------------|------------------|------------------|------------------|------------------|
| 0.1 | <sup>+</sup> 0.1 | <sup>+</sup> 0.1 | <sup>+</sup> 0.1   | +0.1             | <sup>+</sup> 0.1 | <sup>+</sup> 0.1 | +0.1             | <sup>+</sup> 0.1 | <sup>+</sup> 0.1                    | <sup>+</sup> 0.1      | <sup>+</sup> 0.1 | <sup>+</sup> 0.1 | <sup>+</sup> 0.1 | <sup>+</sup> 0.1 |
| 0.1 | <sup>+</sup> 0.1 | <sup>+</sup> 0.2 | <sup>+</sup> 0.2   | <sup>+</sup> 0.2 | <sup>+</sup> 0.2 | <sup>+</sup> 0.2 | <sup>+</sup> 0.2 | <sup>+</sup> 0.2 | <sup>+</sup> 0.2                    | <sup>+</sup> 0.2      | <sup>+</sup> 0.2 | <sup>+</sup> 0.2 | <sup>+</sup> 0.2 | <sup>+</sup> 0.2 |
| 0.2 | <sup>+</sup> 0.2 | <sup>+</sup> 0.3 | <sup>+</sup> 0.3   | <sup>+</sup> 0.3 | <sup>+</sup> 0.3 | <sup>†</sup> 0.3 | <sup>+</sup> 0.3 | <sup>+</sup> 0.3 | <sup>+</sup> 0.4                    | <sup>+</sup> 0.5      | <sup>+</sup> 0.5 | <sup>+</sup> 0.4 | <sup>+</sup> 0.4 | <sup>+</sup> 0.3 |
| 0.2 | <sup>+</sup> 0.3 | <sup>+</sup> 0.4 | <sup>+</sup> 0.6   | -0.6             | +0.5             | <sup>+</sup> 0.4 | <sup>+</sup> 0.4 | <sup>+</sup> 0.5 | <sup>+</sup> 1.0                    | <sup>+</sup> 1.7      | <sup>+</sup> 1.6 | <sup>+</sup> 1.3 | <sup>+</sup> 0.8 | <sup>+</sup> 0.5 |
| 0.3 | <sup>+</sup> 0.5 | <sup>+</sup> 0.7 | <sup>+</sup> 1.1   | <sup>+</sup> 1.2 | <sup>+</sup> 1.0 | <sup>+</sup> 0.7 | <sup>+</sup> 0.6 | <sup>+</sup> 0.8 | <sup>+</sup> 2.9                    | -D4.7D-               | <sup>+</sup> 5.5 | 4.8              | <sup>+</sup> 2.6 | +<br>0.8         |
| 0.4 | <sup>+</sup> 0.7 | <sup>+</sup> 1.3 | <sup>+</sup> 2.3   | <sup>+</sup> 2.6 | <sup>+</sup> 1.8 | <sup>+</sup> 1.1 | <sup>+</sup> 0.7 | <sup>+</sup> 0.9 | ₩S<br>-+<br>2.4                     |                       | • D D •          | -D D -           |                  |                  |
| 0.5 | <sup>+</sup> 0.9 | <sup>+</sup> 1.8 | <sup>+</sup> 3.5 S | 4.0<br>1 ▣□      | <sup>+</sup> 2.8 | <sup>+</sup> 1.4 | <b>4</b> .8      | <sup>+</sup> 0.9 | <sup>+</sup> 1.9<br>WS <sup>E</sup> |                       | •D D•            |                  |                  | D•               |
| 0.6 | <sup>+</sup> 0.8 | <sup>+</sup> 1.7 | <sup>+</sup> 3.2   | <sup>+</sup> 3.7 | <sup>+</sup> 2.5 | <sup>+</sup> 1.3 | <sup>+</sup> 0.8 | <sup>+</sup> 1.0 | *3.7                                | • <b>Đ</b> D •<br>4.9 | +<br>6.3         | <sup>+</sup> 6.1 | <sup>+</sup> 5.7 | 4.3              |
| 0.5 | <sup>+</sup> 0.6 | <sup>+</sup> 1.1 | <sup>+</sup> 1.8   | <sup>+</sup> 2.1 | <sup>+</sup> 1.5 | <sup>+</sup> 0.9 | +0.6             | <sup>+</sup> 0.7 | <sup>+</sup> 1.3                    | <sup>+</sup> 2.1      | <sup>+</sup> 2.1 | <sup>+</sup> 1.9 | <sup>+</sup> 1.7 | <sup>+</sup> 1.4 |
| 0.4 | <sup>+</sup> 0.4 | <sup>+</sup> 0.6 | +<br>0.8           | <sup>+</sup> 0.9 | +<br>0.8         | <sup>+</sup> 0.6 | <sup>+</sup> 0.4 | <sup>+</sup> 0.4 | <sup>+</sup> 0.5                    | <sup>+</sup> 0.6      | <sup>+</sup> 0.7 | <sup>+</sup> 0.6 | <sup>+</sup> 0.6 | <sup>+</sup> 0.6 |
| 0.2 | <sup>+</sup> 0.3 | <sup>+</sup> 0.4 | <sup>+</sup> 0.5   | 0.5              | <sup>+</sup> 0.4 | <sup>+</sup> 0.4 | 0.3              | +<br>0.3         | ÷<br>0.3                            | ÷<br>0.3              | +<br>0.3         | ÷                | +<br>0.3         | +<br>0.4         |
| 100 |                  | <sup>+</sup> 0.2 | <sup>+</sup> 0.3   | <sup>+</sup> 0.3 |                  |                  |                  |                  |                                     |                       |                  |                  |                  |                  |
| 0.1 | +0.2<br>+<br>0.1 | + 0.1            | +                  | +0.2             | <sup>+</sup> 0.2 | <sup>+</sup> 0.2 | <sup>+</sup> 0.1 | +0.1             | <sup>+</sup> 0.1                    | <sup>+</sup> 0.1      | <sup>+</sup> 0.1 | <sup>+</sup> 0.1 | <sup>+</sup> 0.2 | <sup>+</sup> 0.2 |
| 0.1 | 0.1              | 0.1              | 0.1                | 0.1              | 0.1              | 0.1              | 0.1              | 0.1              |                                     | 0.1                   | 0.1              |                  | 0.1              | 0.               |

1 PHOTOMETRIC PLAN

E107 1/16" = 1'-0"

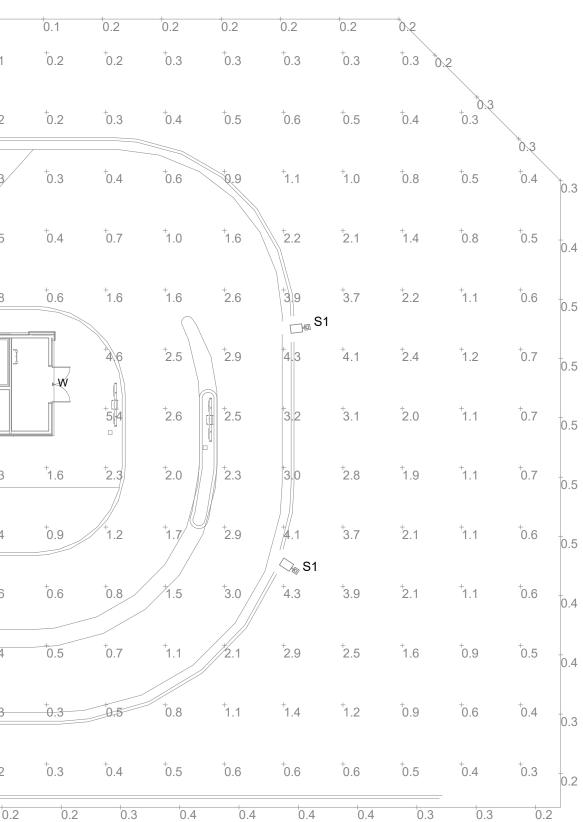
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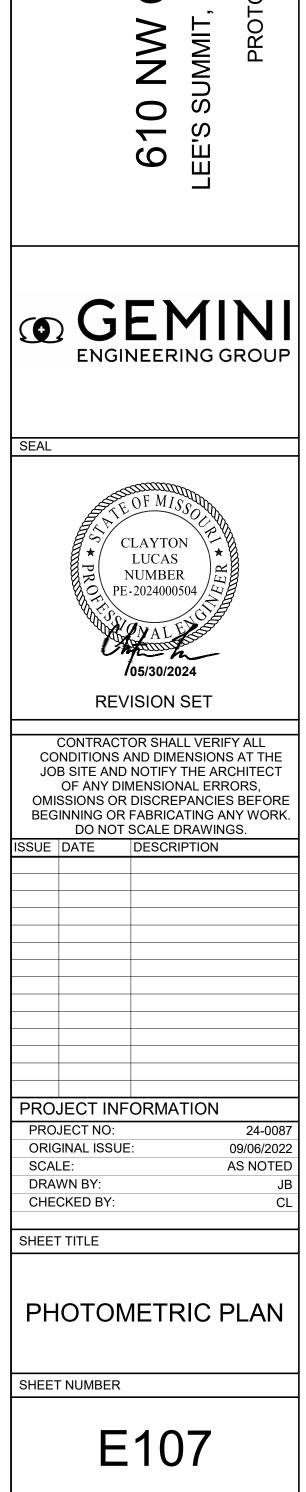
pment Services D Lee's Summit, Misso 07/03/2024

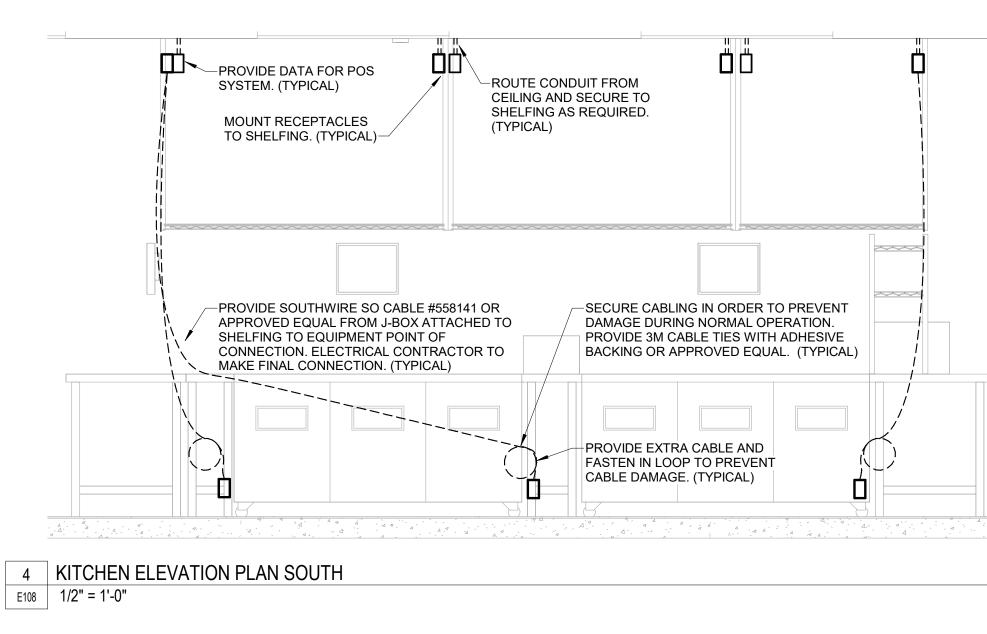


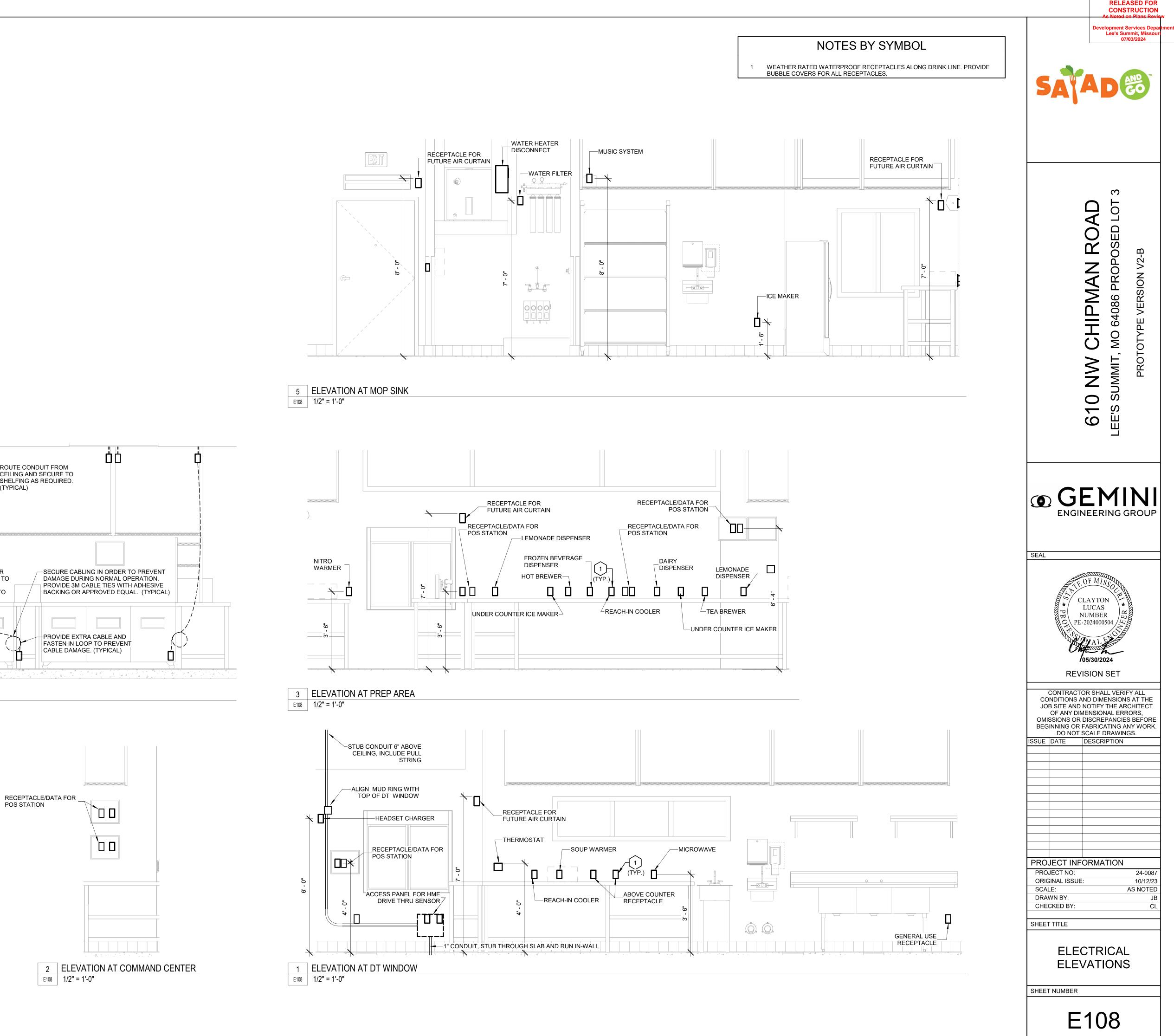
 $\mathcal{C}$  $\bigcirc$ 4 OSED CHIPMAN RO PROTOTYPE VERSION V2-B PROP 64086 ОМ NN 10 S

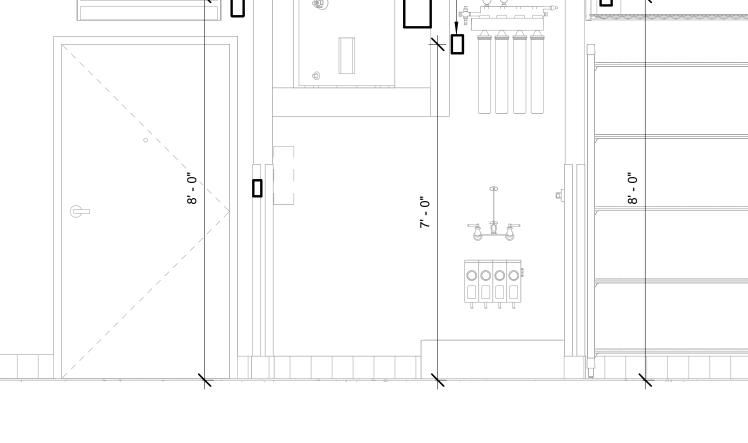
| Units | Avg  | Max | Min | Max/Min |
|-------|------|-----|-----|---------|
| Fc    | 0.23 | 0.6 | 0.1 | 6.00    |
| Fc    | 1.14 | 6.3 | 0.1 | 63.00   |

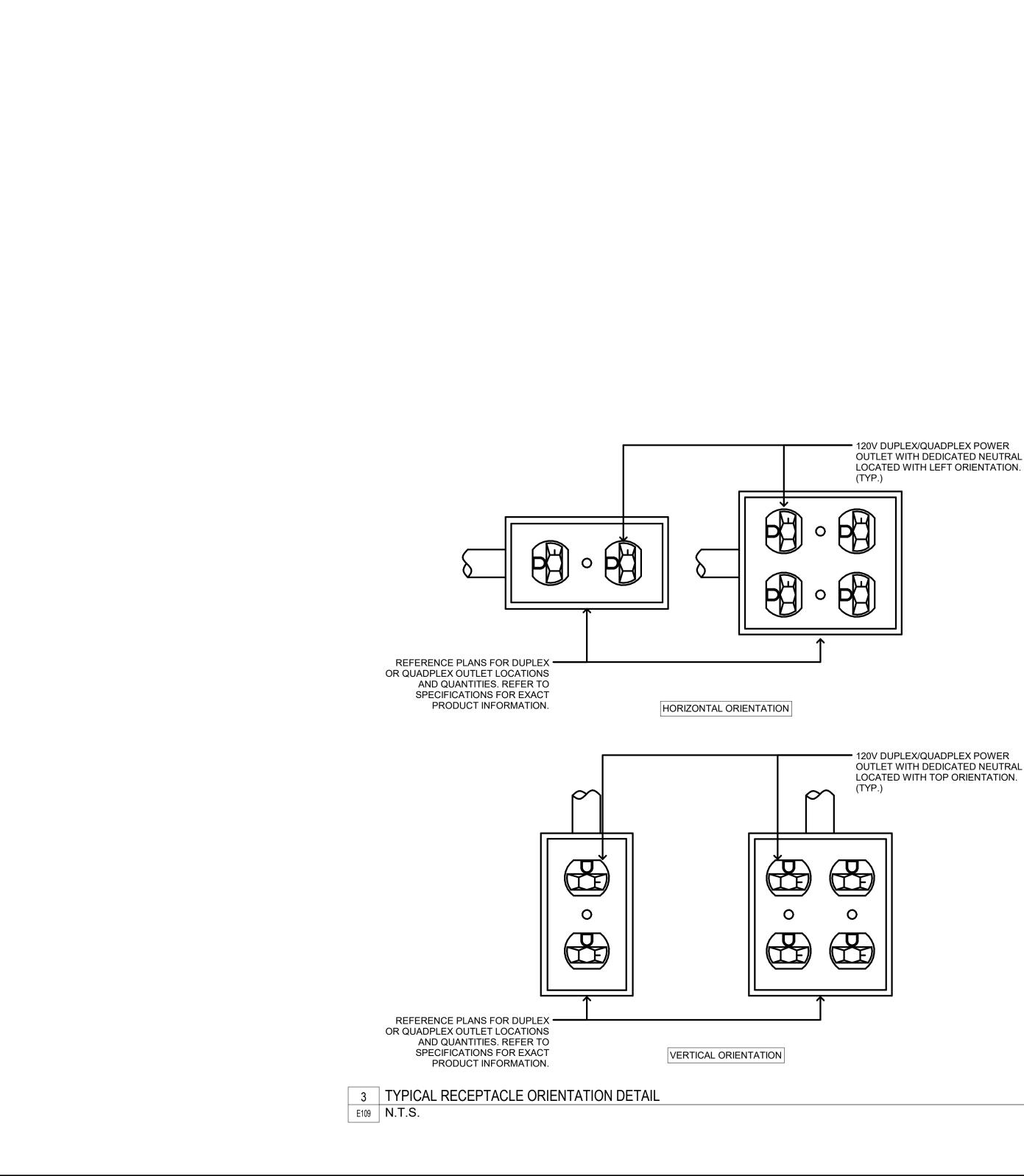


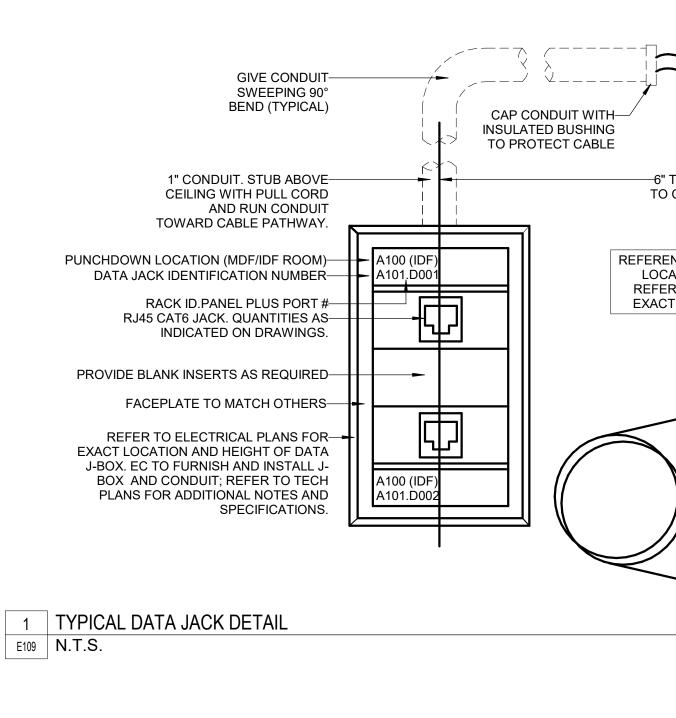


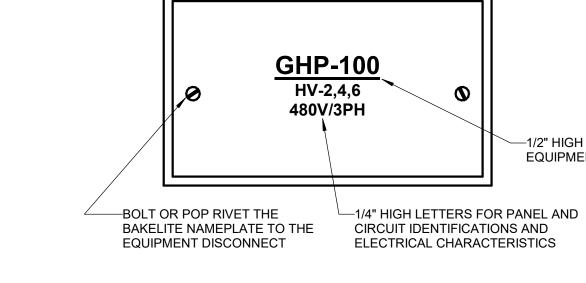










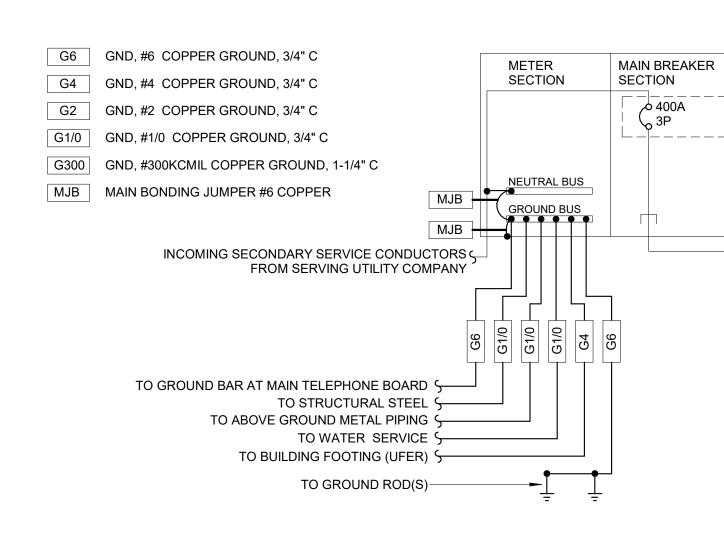


NOTE: 1. ALL NAMEPLATES SHALL BE CUSTOM ENGRAVED WHITE LETTERING ON BLACK PHENOLIC PLASTIC (BAKELITE).

2 TYPICAL EQUIPMENT DISCONNECT NAMEPLATE DETAIL E109 N.T.S.

# **GROUNDING ELECTRODE FEEDER SCHEDULE:**

SIZES ARE BASED ON COPPER (CU) THHN/THWN-2 INSULATION, UNO. ALL CONDUCTOR SIZES ARE BASED ON 75 DEG C RATED TERMINATIONS, UNO. CONDUIT SIZES SHOWN ARE APPROPRIATE FOR SCHEDULE 40 PVC, EMT, GRS, IMC AND RMC; ADJUST SIZE AS NEEDED FOR OTHER RACEWAY TYPES. FOR ANY OTHER CONDITIONS MODIFY SIZES PER CODE. REFER TO SPECIFICATIONS FOR ADDITIONAL INFORMATION.



4 GROUNDING ELECTRODE SYSTEM DETAIL

E109 N.T.S.

ment Services De Lee's Summit, Misso 07/03/2024 -PANDUIT CAT 6 HORIZONTAL CABLES WITH AN IDENTIFIER TAG ON EACH END. PROVIDE CONNECTION PLUGS AT EACH END OF THE CABLE RUNS AS REQUIRED FOR EQUIPMENT INPUT. PROVIDE COLOR COORDINATION AS REQUIRED TO MATCH JACK COLOR. —6" TO 10" CENTER OF DATA DEVICE — TO CENTER OF ELECTRICAL DEVICE REFERENCE PLANS FOR ALL OUTLET LOCATIONS AND QUANTITIES. REFER TO SPECIFICATIONS FOR З EXACT PRODUCT INFORMATION. Ο 4  $\square$ CHIPMAN RO ш ISO PROTOTYPE VERSION V2-B -PROVIDE TWO (2) CAT 6 PATCH 64086 PROF CORDS FOR EACH CAT 6 HORIZONTAL RUN. (1) 3' AND (1) 7', PANDUIT #UTPSP3 AND #UTPSP7. ОМ UMMIT, NN 610 S EE'S —1/2" HIGH LETTERS FOR **© GEMINI** EQUIPMENT IDENTIFICATION ENGINEERING GROUP CLAYTON LUCAS NUMBER Q PE-2024000504 / 5€ 05/30/2024 **REVISION SET** CONTRACTOR SHALL VERIFY ALL CONDITIONS AND DIMENSIONS AT THE JOB SITE AND NOTIFY THE ARCHITECT OF ANY DIMENSIONAL ERRORS, OMISSIONS OR DISCREPANCIES BEFORE BEGINNING OR FABRICATING ANY WORK. DO NOT SCALE DRAWINGS. ISSUE DATE DESCRIPTION PROJECT INFORMATION PROJECT NO: 24-0087 ORIGINAL ISSUE: 09/06/2022 AS NOTED SCALE: DRAWN BY: JE CHECKED BY: CL SHEET TITLE ELECTRICAL DETAILS

SHEET NUMBER

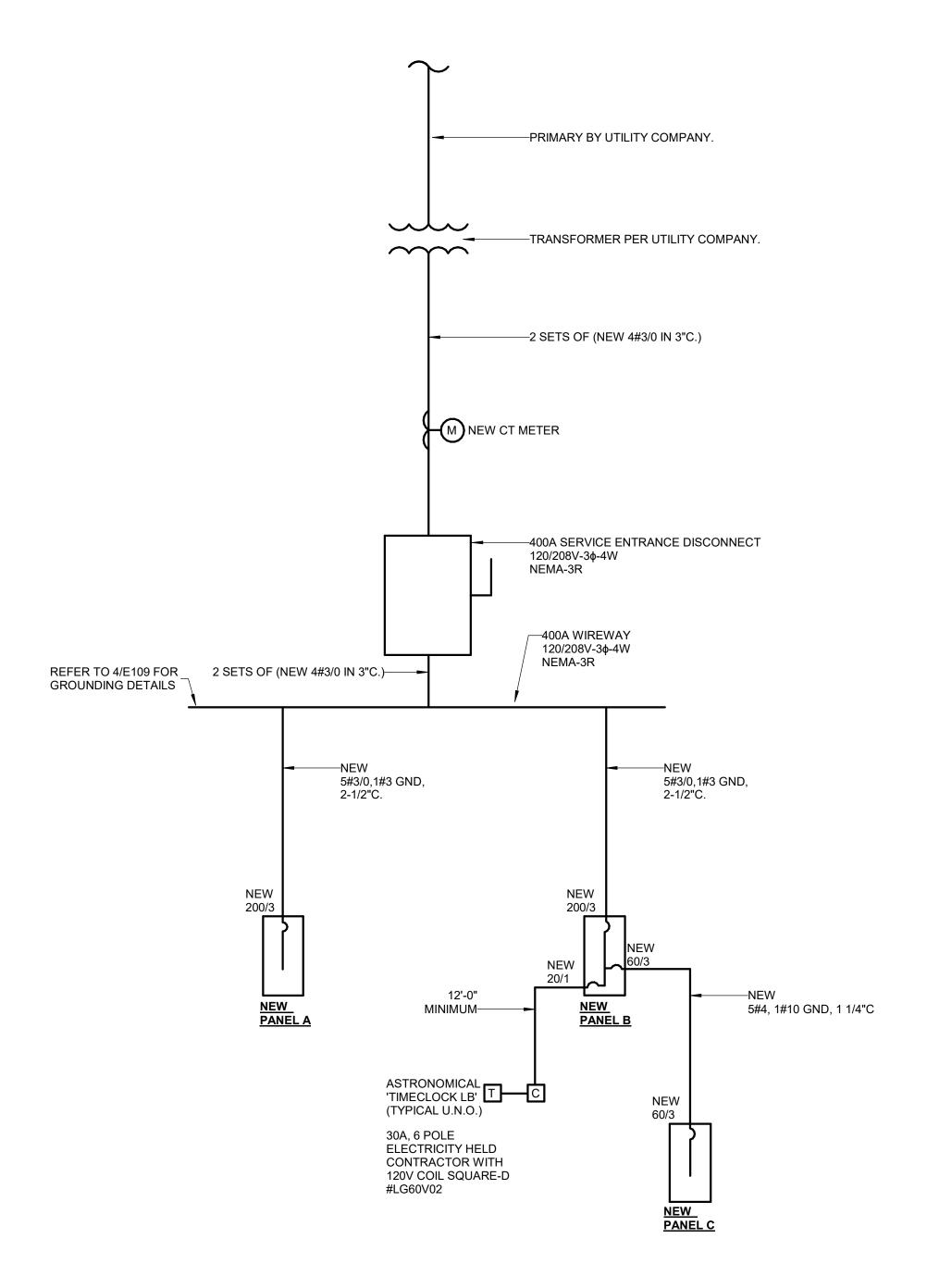
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| Pro<br>Circ<br>Pro<br>Pro<br>Pro                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | C<br>C<br>C<br>C<br>C<br>1<br>3<br>5<br>7<br>9                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | e Breaker and Fuses Per Ma<br>H.A.C.R. Breaker<br>a Lock on Breaker<br>a Lock on Breaker<br><b>nel: C</b><br>ocation: UTILITY 104<br>ly From: B<br>ounting: SURFACE<br><u>CIRCUIT DESCRIPTION</u><br>FIRE BELL<br>POS RECEPTACLE<br>WALK IN CONDENSING UNIT                                                                                                                                                                                                                                                             | DC Cor<br>nufactur<br>12<br>12<br>12<br>12<br>12                                                 | BRKR<br>20<br>20<br>20<br>20<br>20                                                 | <pre># # 1 1 1 2</pre>                                                                                        | Volts<br>Phas<br>Wires<br>A<br>100                                                                                                       | : 120/2<br>. 3<br>: 4<br><b>B</b><br>180                                                                                                        | <b>C</b><br>1932                                                                                                                               | <b>A</b><br>300                                                 |                            | 180                                                               | 1<br>1<br>1<br>1                               | Main<br>Ma<br>BRKR<br>20<br>20<br>20<br>20<br>20<br>20             | C. Ratin<br>s Ratin<br>ins Ratin<br>ins Ty<br>WIRE<br>12<br>12<br>12<br>12<br>12<br>12                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | C<br>2<br>4<br>6<br>8<br>10                   | . NO         |
| Pro<br>Circ<br>Pro<br>Pro<br>Pro<br>D                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | C<br>1<br>3<br>5<br>7<br>9<br>11<br>13                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Breaker and Fuses Per Ma<br>H.A.C.R. Breaker<br>a Lock on Breaker<br>Deckton Breaker                                                                                                                                                                                                                                                                                                                                                                                                                                    | DC Cor<br>nufactur<br>12<br>12<br>12<br>12<br>12<br>12<br>12<br>12                               | BRKR<br>20<br>20<br>20<br>20<br>20<br>20<br>20<br>20<br>20<br>20                   | <ul> <li>#</li> <li>1</li> <li>1</li> <li>2</li> <li>1</li> <li>1</li> </ul>                                  | Volts<br>Phas<br>Wires<br>A<br>100<br>1186                                                                                               | : 120/2<br>. 3<br>: 4<br><b>B</b><br>180<br>1186                                                                                                | <b>C</b><br>1932                                                                                                                               | <b>A</b><br>300<br>360                                          | 720                        |                                                                   | 1<br>1<br>1<br>1<br>1<br>1<br>1<br>1           | Main<br>Ma<br>BRKR<br>20<br>20<br>20<br>20                         | C. Ratin<br>Is                                                              | Al Est. Demand: 35184<br>Total Conn.: 98<br>al Est. Demand: 98<br>PROVIDE 200%  <br>ng: 22,000<br>ng: 60<br>pe: MCB<br>CIRCUIT DESCRIPTION<br>WALK IN COOLER LIGHT<br>INTERIOR LIGHTING<br>POS RECEPTACLE<br>POS RECEPTACLE<br>SECURITY VCR<br>POS RECEPTACLE<br>IT RECEPTS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | C<br>2<br>4<br>6<br>8<br>10<br>12<br>14       |              |
| Pro<br>Circ<br>Pro<br>Pro<br>Pro<br>D                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | C<br>1<br>3<br>5<br>7<br>9<br>11<br>13<br>15                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Breaker and Fuses Per Ma<br>H.A.C.R. Breaker<br>a Lock on Breaker                                                                                                                                                                                                                                                                                                                                                                                                                                                       | DC Cor<br>nufactur<br>12<br>12<br>12<br>12<br>12<br>12<br>12<br>12<br>12<br>12                   | BRKR<br>20<br>20<br>20<br>20<br>20<br>20<br>20<br>20<br>20<br>20<br>20             | #       1       1       1       1       1       1       1       1       1                                     | Volts<br>Phas<br>Wires<br>A<br>100<br>1186                                                                                               | : 120/2<br>. 3<br>: 4<br><b>B</b><br>180<br>1186                                                                                                | <b>C</b><br>1932<br>360                                                                                                                        | <b>A</b><br>300<br>360                                          | 720                        | 180                                                               | 1<br>1<br>1<br>1<br>1<br>1                     | Main<br>Ma<br>BRKR<br>20<br>20<br>20<br>20<br>20<br>20<br>20       | C. Ratin<br>s Ratin<br>ins Ty<br>WIRE<br>12<br>12<br>12<br>12<br>12<br>12<br>12                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Al Est. Demand: 35184<br>Total Conn.: 98<br>Al Est. Demand: 98<br>PROVIDE 200%<br>ng: 22,000<br>ng: 60<br>pe: MCB<br>CIRCUIT DESCRIPTION<br>WALK IN COOLER LIGHT<br>INTERIOR LIGHTING<br>POS RECEPTACLE<br>POS RECEPTACLE<br>SECURITY VCR<br>POS RECEPTACLE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | C<br>2<br>4<br>6<br>8<br>10<br>12             |              |
| Proc<br>Circ<br>Pro<br>Pro<br>Pro<br>Pro                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | C<br>1<br>3<br>5<br>7<br>9<br>11<br>13<br>15                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Breaker and Fuses Per Ma<br>H.A.C.R. Breaker<br>a Lock on Breaker                                                                                                                                                                                                                                                                                                                                                                                                                                                       | DC Cor<br>nufactur<br>12<br>12<br>12<br>12<br>12<br>12<br>12<br>12<br>12<br>12<br>12<br>12<br>12 | BRKR<br>20<br>20<br>20<br>20<br>20<br>20<br>20<br>20<br>20<br>20<br>20<br>20<br>20 | <ul> <li>#</li> <li>1</li> <li>1</li> <li>1</li> <li>1</li> <li>1</li> <li>1</li> <li>1</li> <li>1</li> </ul> | Volts<br>Phas<br>Wires<br>A<br>100<br>1186<br>360<br>310                                                                                 | : 120/2<br>. 3<br>: 4<br><b>B</b><br>180<br>1186                                                                                                | C<br>1932<br>360<br><br>254                                                                                                                    | A<br>300<br>360<br>800<br>6 W                                   | 720<br>360<br><br>301      | 180                                                               | 1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1      | Main<br>Ma<br>BRKR<br>20<br>20<br>20<br>20<br>20<br>20<br>20<br>20 | Tota<br>Tota<br>Tota<br>C. Ratin<br>is Ratin<br>is Ratin<br>is Ratin<br>is Ratin<br>ins Ty<br>WIRE<br>12<br>12<br>12<br>12<br>12<br>12<br>12<br>12<br>12<br>12<br>12<br>12                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Al Est. Demand: 35184<br>Total Conn.: 98<br>al Est. Demand: 98<br>PROVIDE 200%  <br>PROVIDE 200%  <br>ng: 22,000<br>ng: 60<br>pe: MCB<br>CIRCUIT DESCRIPTION<br>WALK IN COOLER LIGHT<br>INTERIOR LIGHTING<br>POS RECEPTACLE<br>POS RECEPTACLE<br>SECURITY VCR<br>POS RECEPTACLE<br>IT RECEPTS<br>SPACE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | C<br>2<br>4<br>6<br>8<br>10<br>12<br>14<br>16 |              |
| Pro     Circ     Circ     Circ     Pro     Pro     Pro     O     f                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Cuit cuit cuit cuit cuit cuit cuit cuit c                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | e Breaker and Fuses Per Ma<br>H.A.C.R. Breaker<br>a Lock on Breaker<br>a Lock on Breaker<br><b>CIRCUIT DESCRIPTION</b><br>FIRE BELL<br>POS RECEPTACLE<br>WALK IN CONDENSING UNIT<br>POS RECEPTACLE<br>POS RECEPTACLE<br>POS RECEPTACLE<br>SAFE<br>SPACE                                                                                                                                                                                                                                                                 | DC Cor<br>nufactur<br>12<br>12<br>12<br>12<br>12<br>12<br>12<br>12<br>12<br>12<br>12<br>12<br>12 | BRKR<br>20<br>20<br>20<br>20<br>20<br>20<br>20<br>20<br>20<br>20<br>20<br>20<br>20 | <ul> <li>#</li> <li>1</li> <li>1</li> <li>1</li> <li>1</li> <li>1</li> <li>1</li> <li>1</li> <li>1</li> </ul> | Volts<br>Phas<br>Wires<br>A<br>100<br>1186<br>360<br>310                                                                                 | : 120/2<br>. 3<br>: 4<br><b>B</b><br>180<br>1186                                                                                                | C<br>1932<br>360<br><br>254                                                                                                                    | A<br>300<br>360<br>800<br>6 W                                   | 720<br>360<br><br>301      | 180<br>540<br><br>2 W                                             | 1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1      | Main<br>Ma<br>BRKR<br>20<br>20<br>20<br>20<br>20<br>20<br>20<br>20 | Tota<br>Tota<br>Tota<br>C. Ratin<br>is Ratin<br>is Ratin<br>is Ratin<br>is Ratin<br>ins Ty<br>WIRE<br>12<br>12<br>12<br>12<br>12<br>12<br>12<br>12<br>12<br>12<br>12<br>12                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Al Est. Demand: 35184<br>Total Conn.: 98<br>al Est. Demand: 98<br>PROVIDE 200%  <br>PROVIDE 200%  <br>ng: 22,000<br>ng: 60<br>pe: MCB<br>CIRCUIT DESCRIPTION<br>WALK IN COOLER LIGHT<br>INTERIOR LIGHTING<br>POS RECEPTACLE<br>POS RECEPTACLE<br>SECURITY VCR<br>POS RECEPTACLE<br>IT RECEPTS<br>SPACE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | C<br>2<br>4<br>6<br>8<br>10<br>12<br>14<br>16 |              |
| 2. Circuits<br>3. Circuits<br>4. Prod<br>5. Prod<br>6<br>10<br>6<br>6<br>4.5<br>6<br>6<br>6<br>6<br>6<br>7<br>8<br>8<br>8<br>8<br>8<br>8<br>8<br>8<br>8<br>8<br>8<br>8<br>8                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Cuit           vide                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | e Breaker and Fuses Per Ma<br>H.A.C.R. Breaker<br>a Lock on Breaker<br>a Lock on Breaker<br><b>nel: C</b><br>ocation: UTILITY 104<br>ly From: B<br>ounting: SURFACE<br><u>CIRCUIT DESCRIPTION</u><br>FIRE BELL<br>POS RECEPTACLE<br>WALK IN CONDENSING UNIT<br>POS RECEPTACLE<br>POS RECEPTACLE<br>POS RECEPTACLE<br>POS RECEPTACLE<br>SAFE<br>SPACE<br>GFCI Breaker<br>Via Energy Management System<br>Via Photo Cell Operation / D<br>Breaker and Fuses Per Ma<br>a H.A.C.R. Breaker                                  | DC Cor<br>nufactur<br>12<br>12<br>12<br>12<br>12<br>12<br>12<br>12<br>12<br>12<br>12<br>12<br>12 | BRKR<br>20<br>20<br>20<br>20<br>20<br>20<br>20<br>20<br>20<br>20<br>20<br>20<br>20 | #<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1                                                      | Volts<br>Phas<br>Wires<br>A<br>100<br>1186<br>360<br>310<br>2                                                                            | : 120/2<br>. 3<br>: 4<br><b>B</b><br>180<br>1186<br>100<br>6 W<br>6                                                                             | C<br>1932<br>360<br><br>254                                                                                                                    | A<br>300<br>360<br>800<br>6 W                                   | 720<br>360<br><br>301      | 180<br>540<br><br>2 W                                             | 1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1      | Main<br>Ma<br>BRKR<br>20<br>20<br>20<br>20<br>20<br>20<br>20<br>20 | Tota<br>Tota<br>Tota<br>C. Ratin<br>is Ratin<br>Ratin<br>Ratin<br>Ratin<br>Ratin<br>Ratin<br>Ratin<br>Ratin<br>Ratin<br>Ratin<br>Ratin<br>Ratin<br>Ratin<br>Ratin<br>Ratin<br>Ratin<br>Ratin<br>Ratin<br>Ratin<br>Ratin<br>Ratin<br>Ratin<br>Ratin<br>Ratin<br>Ratin<br>Ratin<br>Ratin<br>Ratin<br>Ratin<br>Ratin<br>Ratin<br>Ratin<br>Ratin<br>Ratin<br>Ratin<br>Ratin<br>Ratin<br>Ratin<br>Ratin<br>Ratin<br>Ratin<br>Ratin<br>Ratin<br>Ratin<br>Ratin<br>Ratin<br>Ratin<br>Ratin<br>Ratin<br>Ratin<br>Ratin<br>Ratin<br>Ratin<br>Ratin<br>Ratin<br>Ratin<br>Ratin<br>Rat | Al Est. Demand: 35184<br>Total Conn.: 98<br>al Est. Demand: 98<br>PROVIDE 200%  <br>PROVIDE 200%  <br>ng: 22,000<br>ng: 60<br>pe: MCB<br>CIRCUIT DESCRIPTION<br>WALK IN COOLER LIGHT<br>INTERIOR LIGHTING<br>POS RECEPTACLE<br>POS RECEPTACLE<br>SECURITY VCR<br>POS RECEPTACLE<br>IT RECEPTS<br>SPACE<br>SPACE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | C<br>2<br>4<br>6<br>8<br>10<br>12<br>14<br>16 |              |
| Pro     Circ     Circ     Circ     Pro     Pro     Pro     IO     Pro     IO     Pro     IO     Pro     IO     Pro     Circ     Pro     Circ     Pro     Pro                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | Cuit           vide                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | e Breaker and Fuses Per Ma<br>H.A.C.R. Breaker<br>a Lock on Breaker<br>a Lock on Breaker<br><b>nel: C</b><br>ocation: UTILITY 104<br>ly From: B<br>ounting: SURFACE<br><u>CIRCUIT DESCRIPTION</u><br>FIRE BELL<br>POS RECEPTACLE<br>WALK IN CONDENSING UNIT<br>POS RECEPTACLE<br>POS RECEPTACLE<br>POS RECEPTACLE<br>POS RECEPTACLE<br>SAFE<br>SPACE<br>GFCI Breaker<br>Via Energy Management System<br>Via Photo Cell Operation / D<br>Breaker and Fuses Per Ma<br>a H.A.C.R. Breaker                                  | DC Cor<br>nufactur<br>12<br>12<br>12<br>12<br>12<br>12<br>12<br>12<br>12<br>12<br>12<br>12<br>12 | BRKR<br>20<br>20<br>20<br>20<br>20<br>20<br>20<br>20<br>20<br>20<br>20<br>20<br>20 | #<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1                                                      | Volts<br>Phas<br>Wires<br>A<br>100<br>1186<br>360<br>310<br>2                                                                            | : 120/2<br>. 3<br>: 4<br><b>B</b><br>180<br>1186<br>100<br>6 W<br>6                                                                             | C<br>1932<br>360<br><br>254                                                                                                                    | A<br>300<br>360<br>800<br>6 W                                   | 720<br>360<br><br>301      | 180<br>540<br><br>2 W                                             | 1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1      | Main<br>Ma<br>BRKR<br>20<br>20<br>20<br>20<br>20<br>20<br>20<br>20 | Tota<br>Tota<br>Tota<br>C. Ratin<br>is Ratin<br>Ratin<br>Ratin<br>Ratin<br>Ratin<br>Ratin<br>Ratin<br>Ratin<br>Ratin<br>Ratin<br>Ratin<br>Ratin<br>Ratin<br>Ratin<br>Ratin<br>Ratin<br>Ratin<br>Ratin<br>Ratin<br>Ratin<br>Ratin<br>Ratin<br>Ratin<br>Ratin<br>Ratin<br>Ratin<br>Ratin<br>Ratin<br>Ratin<br>Ratin<br>Ratin<br>Ratin<br>Ratin<br>Ratin<br>Ratin<br>Ratin<br>Ratin<br>Ratin<br>Ratin<br>Ratin<br>Ratin<br>Ratin<br>Ratin<br>Ratin<br>Ratin<br>Ratin<br>Ratin<br>Ratin<br>Ratin<br>Ratin<br>Ratin<br>Ratin<br>Ratin<br>Ratin<br>Ratin<br>Ratin<br>Ratin<br>Rat | Al Est. Demand: 35184<br>Total Conn.: 98<br>al Est. Demand: 98<br>PROVIDE 200% I<br>PROVIDE 200% I<br>ng: 22,000<br>ng: 60<br>pe: MCB<br>CIRCUIT DESCRIPTION<br>WALK IN COOLER LIGHT<br>INTERIOR LIGHTING<br>POS RECEPTACLE<br>INTERIOR LIGHTING<br>POS RECEPTACLE<br>SECURITY VCR<br>POS RECEPTACLE<br>SECURITY VCR<br>POS RECEPTACLE<br>IT RECEPTS<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>S | C<br>2<br>4<br>6<br>8<br>10<br>12<br>14<br>16 |              |
| Pro     Circ     Circ     Pro     Pro     Pro     Circ     Pro     Circ     Circ     Circ     Circ     Circ     Pro     Circ     Pro     Circ     Pro     Circ     Pro                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Cuit           vide                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | e Breaker and Fuses Per Ma<br>H.A.C.R. Breaker<br>a Lock on Breaker<br>a Lock on Breaker<br><b>neel: C</b><br>ocation: UTILITY 104<br>by From: B<br>ounting: SURFACE<br><b>CIRCUIT DESCRIPTION</b><br>FIRE BELL<br>POS RECEPTACLE<br>WALK IN CONDENSING UNIT<br>POS RECEPTACLE<br>POS RECEPTACLE<br>POS RECEPTACLE<br>POS RECEPTACLE<br>SAFE<br>SPACE<br>GFCI Breaker<br>Via Energy Management Syst<br>Via Photo Cell Operation / D<br>b Breaker and Fuses Per Ma<br>a Lock on Breaker<br>a Lock on Breaker<br>ELECTRIC | DC Cor<br>nufactur<br>12<br>12<br>12<br>12<br>12<br>12<br>12<br>12<br>12<br>12<br>12<br>12<br>12 | BRKR<br>20<br>20<br>20<br>20<br>20<br>20<br>20<br>20<br>20<br>20<br>20<br>20<br>20 | * #<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1            | Volts<br>Phas<br>Wires<br>A<br>100<br>1186<br>360<br>310<br>2<br>310<br>2<br>mmendat                                                     | : 120/2<br>. 3<br>: 4<br><b>B</b><br>180<br>1186<br>100<br>6 W<br>6<br>0 <b>S</b><br>4W                                                         | с<br>1932<br>360<br><br>254<br>2                                                                                                               | A<br>300<br>800<br>6 W<br>1                                     | 720<br>360<br><br>301<br>2 | 180<br>540<br><br>2 W<br>6                                        | 1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1 | Main<br>Ma<br>BRKR<br>20<br>20<br>20<br>20<br>20<br><br>           | Tota<br>Tota<br>Tota<br>C. 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| Provide a second | C<br>P<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C | e Breaker and Fuses Per Ma<br>H.A.C.R. Breaker<br>a Lock on Breaker<br>a Lock on Breaker<br><b>nel: C</b><br>ocation: UTILITY 104<br>by From: B<br>ounting: SURFACE<br><b>CIRCUIT DESCRIPTION</b><br>FIRE BELL<br>POS RECEPTACLE<br>WALK IN CONDENSING UNIT<br>POS RECEPTACLE<br>POS RECEPTACLE<br>POS RECEPTACLE<br>POS RECEPTACLE<br>SAFE<br>SPACE<br>GFCI Breaker<br>Via Energy Management Systia<br>Photo Cell Operation / D<br>Breaker and Fuses Per Ma<br>a Lock on Breaker<br>a Lock on Breaker<br>CELECTRIC     | VIRE 12 12 12 12 12 12 12 12 12 12 12 12 12                                                      | BRKR<br>20<br>20<br>20<br>20<br>20<br>20<br>20<br>20<br>20<br>20<br>20<br>20<br>20 | * #<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1            | Volts<br>Phas<br>Wires<br>A<br>100<br>1186<br>360<br>310<br>2<br>310<br>2<br>310<br>2<br>0<br>AC                                         | : 120/2<br>. 3<br>: 4<br><b>B</b><br>180<br>1186<br>100<br>6 W<br>6<br>6<br>ion                                                                 | C<br>1932<br>360<br><br>254<br>2<br>2<br>5<br>4<br>2<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0 | A<br>300<br>360<br>6 W<br>1                                     | 720<br>360<br><br>301<br>2 | 180<br>540<br>2 W<br>6                                            | 1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1 | Main<br>Ma<br>BRKR<br>20<br>20<br>20<br>20<br>20<br><br>           | Tota<br>Tota<br>Tota<br>C. 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Demand: 98<br>PROVIDE 200% I<br>PROVIDE 200% I<br>ng: 22,000<br>ng: 60<br>pe: MCB<br>CIRCUIT DESCRIPTION<br>WALK IN COOLER LIGHT<br>INTERIOR LIGHTING<br>POS RECEPTACLE<br>INTERIOR LIGHTING<br>POS RECEPTACLE<br>SECURITY VCR<br>POS RECEPTACLE<br>SECURITY VCR<br>POS RECEPTACLE<br>IT RECEPTS<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>S | C<br>2<br>4<br>6<br>8<br>10<br>12<br>14<br>16 |              |
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Breaker<br>a Lock on Breaker<br>a Lock on Breaker<br><b>POS</b><br><b>CIRCUIT DESCRIPTION</b><br>FIRE BELL<br>POS RECEPTACLE<br>WALK IN CONDENSING UNIT<br>POS RECEPTACLE<br>POS RECEPTACLE<br>POS RECEPTACLE<br>POS RECEPTACLE<br>SAFE<br>SPACE<br>CIRCUIT DESCRIPTION<br>ELECTRUC<br>D DESCRIPTION<br>CO<br>CO<br>CO<br>CO<br>CO<br>CO<br>CO<br>CO<br>CO<br>CO                                                                                                                 | VIRE 12 12 12 12 12 12 12 12 12 12 12 12 12                                                      | BRKR<br>20<br>20<br>20<br>20<br>20<br>20<br>20<br>20<br>20<br>20<br>20<br>20<br>20 | * #<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1            | Volts<br>Phas<br>Wires<br>A<br>100<br>1186<br>360<br>310<br>2<br>310<br>2<br>310<br>2<br>0<br>AC<br>PH - 4<br>DEM,<br>FAC<br>1.2<br>NOTE | : 120/2<br>. 3<br>: 4<br><b>B</b><br>180<br>1186<br>100<br>6 W<br>6<br>6<br>w<br>6<br>w<br>6                                                    | C<br>1932<br>360<br><br>254<br>2<br>254<br>2<br>2<br>5<br>4<br>2<br>2<br>8<br>5                                                                | A<br>300<br>360<br>6 W<br>1<br>ID LOAI<br>1TTS)<br>35.0<br>43.5 | 720<br>360<br><br>301<br>2 | 180<br>540<br><br>2 W<br>6<br>4<br>MAND L<br>(AMPS<br>8.3<br>79.3 | 1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1 | Main<br>Ma<br>BRKR<br>20<br>20<br>20<br>20<br>20<br><br>           | Tota<br>Tota<br>Tota<br>C. Ratin<br>is Ratin<br>Ratin<br>Ratin<br>Ratin<br>Ratin<br>Ratin<br>Ratin<br>Ratin<br>Ratin<br>Ratin<br>Ratin<br>Ratin<br>Ratin<br>Ratin<br>Ratin<br>Ratin<br>Ratin<br>Ratin<br>Ratin<br>Ratin<br>Ratin<br>Ratin<br>Ratin<br>Ratin<br>Ratin<br>Ratin<br>Ratin<br>Ratin<br>Ratin<br>Ratin<br>Ratin<br>Ratin<br>Ratin<br>Ratin<br>Ratin<br>Ratin<br>Ratin<br>Ratin<br>Ratin<br>Ratin<br>Ratin<br>Ratin<br>Ratin<br>Ratin<br>Ratin<br>Ratin<br>Ratin<br>Ratin<br>Ratin<br>Ratin<br>Ratin<br>Ratin<br>Ratin<br>Ratin<br>Ratin<br>Ratin<br>Ratin<br>Rat | Al Est. Demand: 35184<br>Total Conn.: 98<br>al Est. 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Breaker<br>a Lock on Breaker<br>a Lock on Breaker<br><b>POS</b><br><b>CIRCUIT DESCRIPTION</b><br>FIRE BELL<br>POS RECEPTACLE<br>WALK IN CONDENSING UNIT<br>POS RECEPTACLE<br>POS RECEPTACLE<br>POS RECEPTACLE<br>POS RECEPTACLE<br>SAFE<br>SPACE<br>CIRCUIT DESCRIPTION<br>ELECTRUC<br>D DESCRIPTION<br>CO<br>CO<br>CO<br>CO<br>CO<br>CO<br>CO<br>CO<br>CO<br>CO                                                                                                                 | VIRE<br>12<br>12<br>12<br>12<br>12<br>12<br>12<br>12<br>12<br>12                                 | BRKR<br>20<br>20<br>20<br>20<br>20<br>20<br>20<br>20<br>20<br>20<br>20<br>20<br>20 | * #<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1            | Volts<br>Phas<br>Wires<br>A<br>100<br>1186<br>360<br>310<br>2<br>310<br>2<br>310<br>2<br>0<br>AC<br>PH - 4<br>DEM<br>FAC                 | : 120/2<br>. 3<br>: 4<br>B<br>180<br>1186<br>100<br>6 W<br>6<br>ion<br>6 W<br>6<br>100<br>0 SI<br>4 W<br>AND E<br>70R<br>25<br>= #1<br>25<br>25 | C<br>1932<br>360<br><br>254<br>2<br>254<br>2<br>2<br>5<br>4<br>2<br>8<br>5<br>4<br>5<br>(<br>112                                               | A<br>300<br>360<br>6 W<br>1                                     | 720<br>360<br><br>301<br>2 | 180<br>540<br>2 W<br>6                                            | 1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1 | Main<br>Ma<br>BRKR<br>20<br>20<br>20<br>20<br>20<br><br>           | Tota<br>Tota<br>Tota<br>C. 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2. 100% OF A/C LOAD, PLUS 25% OF HIGHEST LOAD.



1ELECTRICAL ONE-LINE DIAGRAME110N.T.S.

RELEASED FOR CONSTRUCTION As Noted on Plans Review

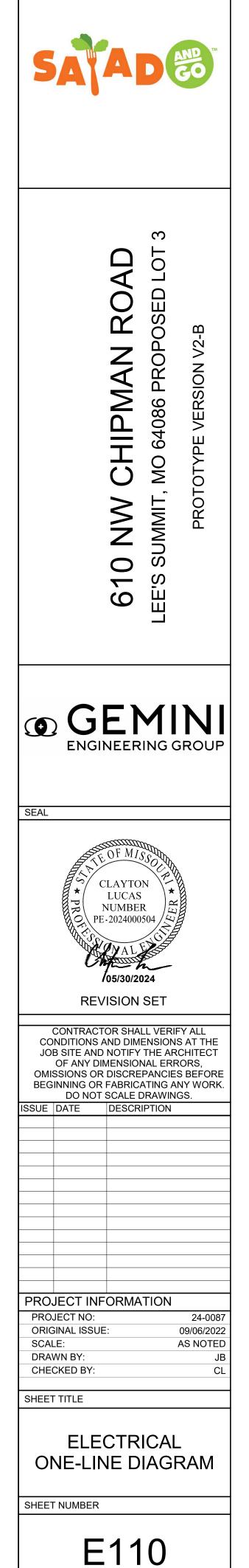
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# ONE-LINE GENERAL NOTES

- A. SWITCHBOARD COMPONENTS, INCLUDING OVER CURRENT PROTECTIVE DEVICES SHALL BE FULLY RATED TO THE AVAILABLE FAULT CURRENT SHOW.
- B. PROVIDE ARC FLASH AND SHOCK HAZARD WARNING IDENTIFICATION PER NEC ARTICLE 110.16.
- C. "NO DESIGN CHANGES MAY BE MADE TO THE SYSTEM WITHOUT THE PRIOR APPROVAL OF THE DESIGN ENGINEER AND THE ELECTRICAL INSPECTOR"
- D. THE FEEDER LENGTHS SHOWN IN THE INPUT DATA IS FOR CALCULATIONS ONLY. IT IS NOT THE INTENT TO USE THESE ENTERED LENGTHS FOR USAGE OF ACTUAL FIELD FEEDER LENGTH MEASUREMENTS.

# PANEL SCHEDULE GENERAL NOTES

- A. A.I.C. RATING SHOWN ON PANEL SCHEDULES ARE THE MINIMUM RATING FOR NEW OVERCURRENT PROTECTIVE DEVICES.
- B. ALL PANEL BOARDS SHALL HAVE A TYPE WRITTEN DIRECTORY IDENTIFYING EACH NUMBERED CIRCUIT PLACED IN A DIRECTORY HOLDER INSIDE THE DOOR.
- C. THE CONTRACTOR SHALL PERMANENTLY MARK WITH PERMANENT MARKER THE CIRCUIT IDENTIFICATIONS ON THE COVERPLATES OF RECEPTACLE, EQUIPMENT, AND LIGHTING JUNCTION BOXES. (STICK LABELS NOT ACCEPTABLE)
- D. PER NEC 210.4(B) ALL MULTIWIRE BRANCH CIRCUITS ARE TO BE PROVIDED WITH A DEVICE THAT WILL DISCONNECT POWER TO ALL UNDERGROUND CONDUCTORS SIMULTANEOUSLY AT THE POINT OF ORIGIN.



## DIVISION 16010 - BASIC ELECTRICAL REQUIREMENTS

A. THE WORK OF EACH OF THE ELECTRICAL SECTIONS INCLUDES FURNISHING AND INSTALLING THE MATERIAL, EQUIPMENT, AND SYSTEMS COMPLETE AS SPECIFIED AND/OR INDICATED ON THE DRAWINGS. THE ELECTRICAL INSTALLATIONS, WHEN FINISHED, SHALL BE COMPLETE AND COORDINATED, READY FOR SATISFACTORY SERVICE.

B. THE WORK UNDER THIS CONTRACT SHALL BE DONE IN STRICT ACCORDANCE WITH ALL FEDERAL (OSHA), STATE, APPLICABLE LOCAL STANDARDS, ALL SPECIFIC SAFETY REQUIREMENTS, THE CURRENT EDITION OF THE NATIONAL ELECTRICAL CODE (NEC), AND THE LATEST ENFORCED EDITION OF THE AMERICANS WITH DISABILITIES ACT.

C. THE CONTRACTOR SHALL MAKE APPLICATION AND PAY FOR ALL PERMITS, LICENSES AND INSPECTIONS AS REQUIRED UNDER THE ABOVE CODES.

D. THE GENERAL ARRANGEMENT OF CONDUIT, WIRING AND EQUIPMENT SHALL BE AS IDENTIFIED ON THE CONTRACT DRAWINGS. THE CONTRACTOR SHALL CAREFULLY INVESTIGATE THE SITE, STRUCTURAL, AND FINISH CONDITIONS AFFECTING HIS WORK AND SHALL ARRANGE SUCH WORK ACCORDINGLY, PROVIDING SUCH FITTINGS AND ACCESSORIES AS MAY BE REQUIRED TO MEET SUCH CONDITIONS.

E. THE CONTRACTOR SHALL PROVIDE ALL LABOR, MATERIALS, TOOLS, EQUIPMENT AND SERVICES NECESSARY FOR AND REASONABLY INCIDENTAL TO THE COMPLETE INSTALLATION OF THE ELECTRICAL WORK AND RELATED SYSTEMS AS INDICATED ON THE DRAWINGS OR AS NECESSARY TO PROVIDE A COMPLETE SYSTEM.

F. THE CONTRACTOR SHALL PROVIDE ALL NECESSARY TEMPORARY WIRING, LIGHTING AND CONSTRUCTION POWER FOR ALL TRADES AS REQUIRED TO COMPLETE THE PROJECT.

G. ALL MATERIALS AND EQUIPMENT SHALL BE INSTALLED AND COMPLETED IN A FIRST CLASS WORKMANLIKE MANNER. ALL MATERIALS SHALL BE NEW AND THE BEST OF THEIR RESPECTIVE KINDS. ALL EQUIPMENT AND SYSTEMS SHALL BE APPROVED BY UL OR SIMILAR NATIONALLY ACCEPTED TESTING AGENCY SUCH AS ETL TESTING LABORATORIES.

H. THE CONTRACTOR SHALL VISIT THE SITE AND OBSERVE THE CONDITIONS UNDER WHICH THE WORK SHALL BE COMPLETED. NO ALLOWANCE WILL BE MADE SUBSEQUENTLY IN THIS CONTRACT FOR ANY ERROR OR NEGLIGENCE ON THE CONTRACTOR'S PART.

THE CONTRACTOR SHALL SUBMIT DETAILED DIMENSIONED SHOP DRAWINGS, TOGETHER WITH WIRING DIAGRAMS, SPECIFICATIONS, OPERATING DATA, AND/OR CATALOG CUTSHEETS FOR ALL EQUIPMENT.

J. A THOROUGH TEST SHALL BE MADE PRIOR TO ENERGIZING THE SYSTEM TO DEMONSTRATE THAT THE SYSTEM IS ENTIRELY FREE FROM GROUND FAULTS, SHORT CIRCUITS, AND OPEN CIRCUITS; THAT THE RESISTANCE TO GROUND ALL NON-GROUNDED CIRCUITS, BEFORE AND AFTER CONNECTION OF EQUIPMENT MEETS THE REQUIREMENTS OF THE NATIONAL ELECTRICAL CODE AND IEEE STANDARDS/RECOMMENDATIONS.

K. IDENTIFY ALL MOTOR STARTERS, SWITCHES, CONTROLS, PANELBOARDS, SWITCHBOARDS, TERMINAL BOARDS, CONTROL CENTERS AND OTHER EQUIPMENT. PROVIDE BLACK AND WHITE NAMEPLATES CONSTRUCTED FROM LAMINATED PHENOLIC WITH A WHITE CENTER CORE. LETTERS SHALL BE ENGRAVED IN THE PHENOLIC TO FORM WHITE LETTERS 3/8" HIGH. FASTEN THE NAMEPLATES WITH SCREWS AND ADHESIVE FASTENER.

UPON COMPLETION OF THE ELECTRICAL INSTALLATION. THE CONTRACTOR L. SHALL DELIVER TO THE OWNER ONE (1) SET OF PRINTS OF ELECTRICAL CONTRACT DRAWINGS WHICH SHALL BE LEGIBLY MARKED IN RED PENCIL TO SHOW ALL ADDITIONS, CHANGES AND DEPARTURES OF THE INSTALLATION AS COMPARED WITH THE ORIGINAL DESIGN. THEY SHALL BE SUITABLE FOR USE IN PREPARATION OF RECORD DRAWINGS.

M. THE CONTRACTOR SHALL GUARANTEE THEIR WORKMANSHIP AND MATERIAL (LAMPS EXCEPTED) FOR A PERIOD OF ONE (1) YEAR FROM THE DATE OF BUILDING ACCEPTANCE AND LEAVE HIS WORK IN PERFECT ORDER AT THE COMPLETION. SHOULD DEFECTS DEVELOP WITHIN THE GUARANTEE PERIOD, THE CONTRACTOR SHALL, UPON NOTICE OF THE SAME, REMEDY THE DEFECTS AND HAVE ALL DAMAGES TO OTHER WORK OR FURNISHINGS CAUSED BY THE REPAIRS CORRECTED AT HIS EXPENSE TO THE CONDITION BEFORE SUCH DAMAGE.

N. THE CONTRACTOR SHALL PREPARE THREE (3) COPIES OF A RECORD AND INFORMATION MANUAL. THE MANUAL SHALL BE BOUND IN A THREE-RING LOOSE-LEAF BINDER. PROVIDE THE FOLLOWING DATE IN THE BOOKLET:

- CUTSHEETS OF ALL EQUIPMENT WITH TECHNICAL SPECIFICATIONS. OPERATION AND MAINTENANCE PROCEDURES.
- SERVICING INSTRUCTIONS.
- COPIES OF PANELBOARD DIRECTORIES. 4) COPIES OF WARRANTIES. 5)
- LIST OF LAMPS SHOWING QUANTITY, TYPE, WATTAGE, 6) MANUFACTURER, CATALOG NUMBER, ETC., FOR EACH FIXTURE
- TYPF COPIES OF TEST REPORTS. 7)

0. EXACT LOCATIONS OF OUTLETS SHALL BE COORDINATED WITH DOOR SWINGS AND VARIOUS PROTRUSIONS. MOUNTING HEIGHTS OF THE VARIOUS ELECTRICAL DEVICES SHALL BE AS FOLLOWS:

| SWITCHES          | 48" AFF TO CENTER OF BOX                                                                                      |
|-------------------|---------------------------------------------------------------------------------------------------------------|
| RECEPTACLES       | 18" AFF TO CENTER OF BOX                                                                                      |
| TELEPHONE OUTLETS | 18" AFF TO CENTER OF BOX                                                                                      |
| EXIT LIGHTS       | CENTERED BETWEEN CEILING AND TOP OF<br>DOOR (UP TO 1'-0" ABOVE DOOR), SURFACE<br>OR CEILING MOUNTED AS SHOWN. |

DISCONNECTING SWITCHES 52" AFF TO CENTER OF SWITCH

P. PROVIDE A DISCONNECT SWITCH FOR EACH MOTOR AS SHOWN ON THE DRAWINGS SIZED AS REQUIRED TO MEET THE NATIONAL ELECTRICAL CODE AND PROVIDE ALL WIRING CONNECTIONS FROM SOURCE. PROVIDE REQUIRED VOLTAGE.

Q. SEAL ALL CONDUIT PENETRATIONS THRU FIRE RATED WALLS AND FLOORS TO MAINTAIN FIRE INTEGRITY. REFER TO ARCHITECTURAL DRAWING FOR FIRE WALL LOCATIONS.

R. ELECTRICAL CONTRACTOR SHALL VERIFY ALL VOLTAGES OF MECHANICAL AND PLUMBING EQUIPMENT WITH THE RESPECTIVE CONTRACTOR PRIOR TO ROUGH-IN.

S. ALL SURFACE-MOUNTED EQUIPMENT ON BLOCK WALLS SHALL BE MOUNTED ON 3/4" PLYWOOD BACKBOARD. ALL FLOOR-MOUNTED EQUIPMENT SHALL BE INSTALLED ON A 4" HIGH CONCRETE PAD.

**DIVISION 16050 - BASIC ELECTRICAL MATERIALS AND METHODS** 

A. INSTALL ALL WIRING IN CONDUIT MINIMUM, U.N.O. MINIMUM CONDUIT SIZE SHALL BE 3/4". ALL CONDUIT EMBEDDED IN CONCRETE SHALL BE 3/4" MINIMUM. INSTALL ALL CONDUIT CONCEALED UNLESS ON UNFINISHED WALLS, ON UNFURRED CEILINGS OR MECHANICAL EQUIPMENT SPACES. PROVIDE CONDUIT AS FOLLOWS:

1) RIGID STEEL CONDUIT FOR WORK EXPOSED TO WEATHER OR EMBEDDED IN CONCRETE OR MASONRY.

|                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                                                                                                                                                                          | Development Services Departmen<br>Lee's Summit, Missour<br>07/03/2024                                                                      |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------|
| 2) GALVANIZED ELECTRICAL METALLIC TUBING (EMT) FOR INTERIOR<br>EXPOSED WORK, CONCEALED WORK ABOVE SUSPENDED CEILINGS, AND WITHIN<br>INTERIOR PARTITIONS OR NON-MASONRY WALLS.                                                                                                                                                                                                | T. PROVIDE EQUIPMENT GROUNDING CONDUCTORS IN ALL BRANCH CIRCUITS<br>AND FEEDERS SIZED IN ACCORDANCE WITH THE NATIONAL ELECTRICAL CODE<br>TABLE 250.112.                                                                                                                                  |                                                                                                                                            |
| 3) FLEXIBLE METAL CONDUIT IN SHORT LENGTHS (6' MAXIMUM) FOR THE CONNECTION OF RECESSED LIGHTING FIXTURES AND MOTORS.                                                                                                                                                                                                                                                         | U. ALL BRANCH CIRCUITS SHALL BE RUN CONCEALED IN EXISTING AND NEW WALLS. CUT AND PATCH EXISTING WALLS AND SURFACES AS REQUIRED.                                                                                                                                                          | SATAD                                                                                                                                      |
| 4) LIQUID TIGHT FLEXIBLE METAL CONDUIT WHEREVER MOISTURE MAY BE<br>PRESENT AND MOTORS IN MECHANICAL EQUIPMENT SPACES.                                                                                                                                                                                                                                                        | V. ALL D.C. WIRING SHALL BE #10 AWG MINIMUM.                                                                                                                                                                                                                                             |                                                                                                                                            |
| 5) POLYVINYLCHLORIDE (PVC) SCHEDULE 40 AND 80 CONDUIT WITH GROUND<br>CONDUCTOR FOR UNDERGROUND OUTSIDE OF BUILDING (SITE) INSTALLATION AS<br>PERMITTED BY NATIONAL ELECTRICAL CODE (NEC) ARTICLE 352.                                                                                                                                                                        | W. GROUND, PHASE AND NEUTRAL CONDUCTORS SHALL BE PIG-TAILED IN<br>OUTLET BOXES OR MULTI-OUTLET ASSEMBLY FOR RECEPTACLES SO THAT<br>GROUND AND ELECTRICAL SERVICE WILL NOT BE DISTURBED TO OTHER<br>RECEPTACLES ON THE SAME MULTI-WIRE CIRCUIT IF RECEPTACLE IS REMOVED.                  |                                                                                                                                            |
| B. INSTALL CONDUITS PARALLEL AND PERPENDICULAR TO WALLS AND INTERIOR<br>SURFACES. CLEAN AND PLUG AND PROVIDE A PULL LINE IN EACH CONDUIT LEFT EMPTY.<br>USE MANUFACTURED ELBOWS AND SCREW JOINTED CONDUIT FITTINGS. USED CAPPED<br>BUSHINGS OR "PUSH PENNY" PLUGS. ALL FITTINGS SHALL BE STEEL OR MALLEABLE IRON.<br>ALL EMT FITTINGS SHALL BE COMPRESSION TYPE.             | DIVISION 16140 - WIRING DEVICES<br>A. WIRING DEVICES SHALL BE ARROW HART, GENERAL ELECTRIC, P & S,<br>LEVITON, HUBBELL, OR APPROVED EQUAL (COORDINATE COLOR SELECTION WITH<br>ARCHITECT):                                                                                                |                                                                                                                                            |
| C. ALL OUTLET, SWITCH AND JUNCTION BOXES, SHALL BE SHERARDIZED OR<br>GALVANIZED STAMPED STEEL BY STEEL CITY, RACO, APPLETON, VALEN, OR EQUIVALENT.<br>OUTLET BOXES IN CONCRETE CONSTRUCTION SHALL BE OCTAGONAL. NO "THRU-WALL"<br>BOXES SHALL BE USED IN PARTITIONS. ALL BOXES SHALL BE FURNISHED WITH<br>APPROPRIATE COVERS.                                                | <ol> <li>WALL SWITCHES: THREE AND FOUR-WAY SWITCHES SHALL BE OF THE<br/>SAME MANUFACTURER AND GRADE.</li> <li>RECEPTACLES: GFCI SHALL BE #GFCS20 RATED 20 AMPERE,<br/>120 VOLT.</li> </ol>                                                                                               | LOT 3                                                                                                                                      |
| D. JUNCTION AND PULL BOXES SHALL BE FURNISHED AND INSTALLED AS INDICATED<br>OR WHERE REQUIRED TO FACILITATE PULLING OF WIRES OR CABLES. BOXES FOR<br>EXTERIOR WORK SHALL BE CAST ALUMINUM OR GALVANIZED CAST IRON TYPE WITH<br>THREADED HUBS, U.N.O. GASKETED COVER PLATES SHALL BE FURNISHED FOR<br>OUTDOOR INSTALLATIONS.                                                  | <ul> <li>3) DIMMERS: 600/1000/1500/2000 WATTS AS REQUIRED BY JOB<br/>ONDITIONS. LUTRON 'NOVA' SERIES OR EQUAL.</li> <li>4) DEVICE PLATES: ARROW HART SWITCH PLATES SI-S6<br/>SERIES. ARROW HART RECEPTACLE PLATES S8. ARROW</li> </ul>                                                   | N RO<br>DPOSED<br>V2-B                                                                                                                     |
| DIVISION 16060 - GROUNDING AND BONDING                                                                                                                                                                                                                                                                                                                                       | <ul> <li>B. WIRING DEVICE COLOR SHALL BE WHITE, UNLESS OTHERWISE NOTED.</li> </ul>                                                                                                                                                                                                       |                                                                                                                                            |
| <ul> <li>GROUND ALL EQUIPMENT PER NATIONAL ELECTRICAL CODE (NEC).</li> <li>B. GROUND ALL DRY TYPE TRANSFORMERS AS PER DRAWINGS AND NATIONAL ELECTRICAL CODE (NEC).</li> </ul>                                                                                                                                                                                                | C. PROVIDE TOTALLY ENCLOSED, 20 AMPERE, 120/277 VOLT, QUIET A/C GENERAL USE SNAP SWITCHES.                                                                                                                                                                                               | HIPM,<br>64086 P                                                                                                                           |
| C. ALL CONDUITS SHALL CONTAIN A CODE-SIZED GROUND WIRE SIZE PER NATIONAL<br>ELECTRICAL CODE (NEC) IN ADDITION TO THE CONDUCTORS SHOWN ON THE PLANS.<br>WHERE CIRCUIT CONDUCTORS ARE INCREASED IN SIZE FOR VOLTAGE DROP, THE<br>GROUND WIRE SIZE SHALL BE INCREASE PROPORTIONATELY.                                                                                           | <ul> <li>D. SWITCHES SHALL BE SPECIFICATION GRADE AS MANUFACTURED BY<br/>HUBBELL, P&amp;S, LEVITON, OR APPROVED EQUAL.</li> <li>E. PROVIDE NEMA CONFIGURATION 5-20R DUPLEX 125 VOLT GROUNDING TYPE<br/>RECEPTACLES RATED FOR 20 AMPERES U.N.O. ON THE DRAWINGS.</li> </ul>               | , MO 64                                                                                                                                    |
| D. WHERE AN ISOLATED, INSULATED GROUND IS REQUIRED A SEPARATE GREEN<br>GROUND SHALL BE RUN FROM THE PANEL GROUND BUS TO THE ISOLATED GROUND<br>CONNECTION OF THE DEVICE SERVED. IN NO CASE SHALL THE SYSTEM GROUND (WIRE<br>AND ASSOCIATED OUTLET BOXES, CONDUIT AND BUILDING STEEL) BE ALLOWED TO                                                                           | <ul> <li>F. RECEPTACLES SHALL BE SPECIFICATION GRADE AS MANUFACTURED BY<br/>HUBBELL, P&amp;S, LEVITON, OR APPROVED EQUAL.</li> <li>1.6 RECEPTACLES REQUIRING AMPERAGES, VOLTAGES OR</li> </ul>                                                                                           |                                                                                                                                            |
| CONTACT THE ISOLATED GROUND (GREEN WIRE AND DEVICE GROUND).                                                                                                                                                                                                                                                                                                                  | CONFIGURATIONS DIFFERENT FROM THE DUPLEX CONVENIENCE<br>RECEPTACLES ABOVE SHALL BE AS INDICATED ON THE DRAWINGS.                                                                                                                                                                         |                                                                                                                                            |
| A. THE COLOR CODING SYSTEM LISTED BELOW SHALL BE USED THROUGHOUT THE BUILDING:                                                                                                                                                                                                                                                                                               | 1.7 PROVIDE OTHER RECEPTACLES OF A QUALITY, MATERIAL AND<br>WORKMANSHIP EQUAL TO THAT SPECIFIED FOR DUPLEX<br>CONVENIENCE RECEPTACLES.                                                                                                                                                   | 61(<br>EE'S                                                                                                                                |
| SYSTEMPHASE APHASE BPHASE CNEUTRAL/GROUND208/120VBLACKREDBLUEWHITE GREEN240/120VBLACKREDBLUEWHITE GREEN480/277VBROWNORANGEYELLOWGRAY GREEN                                                                                                                                                                                                                                   | <ul> <li>1.8 PROVIDE COVER OR DEVICE PLATES FOR OUTLET BOXES AS<br/>FOLLOWS UNLESS OTHERWISE NOTED:</li> <li>1.8a FINISHED AREAS: THERMOPLASTIC-COLOR TO MATCH<br/>DEVICE.</li> </ul>                                                                                                    |                                                                                                                                            |
| B. THE WIRE SIZE INDICATED IN THE HOMERUN SHALL BE USED THROUGH THE<br>CIRCUIT.                                                                                                                                                                                                                                                                                              | G. UNFINISHED AREAS: ZINC COATED SHEET METAL, ALUMINUM, OR CAST<br>METAL AS APPROPRIATE FOR THE TYPE OF BOX.                                                                                                                                                                             |                                                                                                                                            |
| C. BUILDING WIRE, U.N.O., SHALL BE COPPER, 600 VOLT, TYPE THWN/THHN<br>INSULATION, #12 AWG MINIMUM, FOR INTERIOR AND EXTERIOR APPLICATIONS. TYPE<br>THHN SHALL NOT BE USED IN WET OR DAMP LOCATIONS.                                                                                                                                                                         | H. EXTERIOR AREAS: COPPER FREE ALUMINUM WITH GRAY, POWDER EPOXY<br>FINISH, GASKET, WEATHERPROOF, CROUSE-HINDS "WLRD" FOR DUPLEX<br>RECEPTACLES AND "WLRS" FOR SINGLE RECEPTACLES OR APPROVED EQUAL.                                                                                      |                                                                                                                                            |
| D. INSTALL ALL WIRING IN CONDUIT.<br>E. CONTROL CONDUCTORS SHALL BE #14 MINIMUM FOR NATIONAL ELECTRICAL<br>CODE (NEC) CLASS 1 AND #16 FOR NATIONAL ELECTRICAL CODE (NEC) CLASS 2.                                                                                                                                                                                            | I. TELEPHONE COMMUNICATIONS, AND SIGNAL OUTLET PLATES, SHALL<br>MATCH THOSE USED FOR RECEPTACLES AND SWITCHES. ALL OUTLET AND/OR<br>JUNCTION BOXES SHALL BE COMPLETE WITH A COVER PLATE BY THIS<br>CONTRACTOR.                                                                           | ENGINEERING GROUP                                                                                                                          |
| F. CONDUCTORS #8 AWG AND LARGER SHALL BE STRANDED.                                                                                                                                                                                                                                                                                                                           | J. WHERE DEVICES ARE GANGED, THEY SHALL BE INSTALLED UNDER A COMMON COVER PLATE.                                                                                                                                                                                                         | SEAL                                                                                                                                       |
| <ul> <li>G. CONDUCTORS #10 AWG AND SMALLER SHALL BE SOLID.</li> <li>H. NO SPLICES SHALL BE MADE EXCEPT WITHIN OUTLET OR JUNCTION BOXES.</li> <li>WIRES AND CABLES SHALL BE MANUFACTURED BY PIRELLI, ROYAL, TRIANGLE OR</li> <li>APPROVED EQUAL.</li> </ul>                                                                                                                   | K. LOCATE THE SWITCHES APPROXIMATELY 4'-0" ABOVE THE FINISHED FLOOR<br>ELEVATION OR NEAREST BLOCK COURSE (WITHIN A.D.A. REQUIREMENTS), U.N.O.<br>THE LONG DIMENSION OF THE SWITCHES SHALL BE VERTICAL.                                                                                   | CLAYTON                                                                                                                                    |
| <ul> <li>PULL CONDUCTORS USING RECOGNIZED METHODS AND EQUIPMENT LEAVING AS LEAST 6" WIRE AT ALL JUNCTION BOXES FOR CONNECTIONS.</li> <li>J. CLEAN OUT EACH CONDUIT SYSTEM BEFORE PULLING WIRE.</li> </ul>                                                                                                                                                                    | L. LOCATE RECEPTACLES APPROXIMATELY 1'-6" ABOVE THE FINISHED FLOOR<br>ELEVATION OR NEAREST BLOCK COURSE (WITHIN A.D.A. REQUIREMENTS), U.N.O.<br>THE LONG DIMENSION OF RECEPTACLES SHALL BE VERTICAL.                                                                                     | CLAYTON<br>LUCAS<br>NUMBER<br>PE-2024000504                                                                                                |
| <ul> <li>K. FORM AND TIE ALL WIRING IN PANEL BOARDS.</li> </ul>                                                                                                                                                                                                                                                                                                              | SECTION 16500 - LIGHTING<br>A. ALL LIGHTING SHALL BE LED TYPE, U.N.O.                                                                                                                                                                                                                    | NALLASS                                                                                                                                    |
| L. THERE SHALL BE NO WIRE NUT JOINTS OR SPLICES MADE INSIDE<br>SWITCHBOARDS/PANEL BOARDS.                                                                                                                                                                                                                                                                                    | B. PROVIDE A COMPLETE LIGHTING FIXTURE AT EACH LOCATION INDICATED<br>ON THE DRAWINGS. FIXTURES SHALL BE SPECIFIED ON THE LIGHTING FIXTURE<br>SCHEDULE ON THE DRAWINGS.                                                                                                                   | 105/30/2024<br>REVISION SET                                                                                                                |
| M. BRANCH CIRCUIT WIRE SIZES (AND CONDUITS) SHALL BE INCREASED FROM<br>THOSE INDICATED ON THE PLANS TO PREVENT EXCESSIVE VOLTAGE DROP. BRANCH<br>CIRCUITS SHALL BE INSTALLED WITH WIRES OF SUFFICIENT SIZE SO THAT VOLTAGE<br>DROP BETWEEN THE PANEL AND THE LOADS DOES NOT EXCEED LIMIT OF 3 PERCENT.                                                                       | C. EACH FIXTURE SHALL BE COMPLETELY EQUIPPED WITH LAMPS OF THE<br>SIZE, TYPE, WATTAGE AND SHAPE INDICATED AND SPECIFIED. ALL LAMPS SHALL BE<br>MANUFACTURED BY THE GENERAL ELECTRIC CO., PHILIPS LIGHTING CO., VENTURE<br>LIGHTING INTERNATIONAL, SYLVANIA/OSRAM CORPORATION OR APPROVED | CONTRACTOR SHALL VERIFY ALL<br>CONDITIONS AND DIMENSIONS AT THE                                                                            |
| <ul> <li>WIRE SIZES SHALL BE BASED ON THE 60°C. AMPACITIES FOR WIRE SIZES NO. 14-1</li> <li>AWG, AND 75°C. AMPACITIES FOR WIRE SIZES #1/0 AWG AND LARGER.</li> <li>CIRCUITS MAY BE MULTI-PLEXED IN CONDUIT PROVIDED WIRE IS PROPERLY</li> </ul>                                                                                                                              | EQUAL. LUMEN OUTPUT AND LIFE OF LAMPS SHALL BE EQUIVALENT TO THE<br>GENERAL ELECTRIC LAMP OF THAT TYPE AND WATTAGE. EXACT VOLTAGE SHALL<br>BE CHECKED BEFORE ORDERING LAMPS.                                                                                                             | JOB SITE AND NOTIFY THE ARCHITECT<br>OF ANY DIMENSIONAL ERRORS,<br>OMISSIONS OR DISCREPANCIES BEFORE<br>BEGINNING OR FABRICATING ANY WORK. |
| DERATED AND CONDUIT SIZED PER NATIONAL ELECTRICAL CODE. UNDER NO<br>CIRCUMSTANCES SHALL MORE THAN (9) CURRENT CARRYING CONDUCTORS BE RUN IN A<br>SINGLE CONDUIT.                                                                                                                                                                                                             | D. THE CONTRACTOR SHALL CONSULT THE CEILING CONTRACTOR AND<br>ARCHITECT'S DRAWINGS FOR APPROVED REFLECTED CEILING PLANS BEFORE<br>ORDERING FIXTURES TO INSURE THAT ALL ARE COMPATIBLE WITH THE CEILING<br>SYSTEM AND PROPERLY LOCATED. VERIFY THAT ADEQUATE CLEARANCE FOR                | DO NOT SCALE DRAWINGS.       ISSUE     DATE       DESCRIPTION                                                                              |
| P. PROVIDE WIRE AND RACEWAY SYSTEMS AS DESCRIBED HEREIN AND INDICATED<br>ON DRAWINGS. METAL-CLAD (MC), ARMORED CABLE (AC), AND NON-METALLIC SHEATED<br>CABLE (NMC) SHALL NOT BE PERMITTED, U.N.O, AND APPROVED PRIOR TO BIDDING.                                                                                                                                             | INSTALLATION, MAINTENANCE, AND HEAT DISSIPATION IS AVAILABLE.<br>E. PROVIDE A MINIMUM OF TWO (2) GALVANIZED STEEL #12 GAUGE HANGER<br>WIRES (ALTERNATE CORNERS) ON ALL RECESSED FIXTURES.                                                                                                |                                                                                                                                            |
| Q. PROVIDE DISCONNECT SWITCHES WHERE INDICATED AND AS REQUIRED.<br>SWITCHES SHALL BE OF SIZE, NUMBER OF POLES AND FUSED OR NONFUSED, AS<br>REQUIRED FOR JOB CONDITIONS AND THE NATIONAL ELECTRICAL CODE. ALL SAFETY<br>SWITCHES SHALL BE NEMA I ENCLOSURE "HD" WITH INTERLOCKING COVER AND HANDLE,<br>MANUFACTURED BY SQUARE D OR APPROVED EQUAL. PROVIDE NEMA 3R ENCLOSURES | F. CONTRACTOR SHALL PROVIDE ADDITIONAL EXIT LIGHTS AND EMERGENCY<br>BATTERY PACK WITH DUAL HEADS AS NEEDED TO MEET FIRE MARSHAL'S WALK-<br>THROUGH AND ACCEPTANCE.                                                                                                                       |                                                                                                                                            |
| WHERE REQUIRED.<br>R. MOUNT WEATHERPROOF DEVICES IN CAST METAL BOXES WITH GASKETED,<br>SPRING-HINGED LID-TYPE LOCKING COVERS HAVING CORROSION-RESISTANT FINISH.                                                                                                                                                                                                              | G. CONNECT EXIT LIGHTS, EMERGENCY BATTERY UNITS AND NIGHT LIGHTS<br>(NL) TO UNSWITCHED PORTION OF LIGHTING CIRCUIT SERVING RESPECTIVE AREA.                                                                                                                                              |                                                                                                                                            |
| S. THE ENTIRE ELECTRICAL SYSTEM SHALL BE SOLIDLY GROUNDED INCLUDING MAIN<br>SERVICE EQUIPMENT, DISCONNECT SWITCHES, WIRING TROUGHS AND PULL BOXES,<br>CONDUIT SYSTEM, OUTLET BOXES, MOTORS, ELECTRIC HEATING EQUIPMENT, LIGHTING<br>FIXTURES, TRANSFORMERS, EMERGENCY SYSTEMS, UPS SYSTEMS, AND FIRE ALARM<br>SYSTEMS.                                                       |                                                                                                                                                                                                                                                                                          | PROJECT INFORMATIONPROJECT NO:24-0087ORIGINAL ISSUE:09/06/2022SCALE:AS NOTEDDRAWN BY:JBCHECKED BY:CL                                       |
|                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                                                                                                                                                                          | SHEET TITLE                                                                                                                                |

- G.

RELEASED FOR CONSTRUCTION loted on Plans Rev

SHEET NUMBER

E111

ELECTRICAL

SPECIFICATIONS

| <b>COMcheck Software Version 4.1.5.5</b><br>Interior Lighting Compliance Certificate                                                                                                                                                                                                                                                                                                                | CLAYTON LUCAS, P.E.                                                                                                                                                                                                                                                                                       | <b>COMcheck Software Version 4.1.5.5</b><br>Exterior Lighting Compliance Co                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
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| Project Information                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                                                                                                                                                                                                                                           | Project Information                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| Energy Code:       2018 IECC         Project Title:       Salad & Go         Project Type:       New Construction                                                                                                                                                                                                                                                                                   |                                                                                                                                                                                                                                                                                                           | Energy Code:2018 IECCProject Title:Salad & GoProject Type:New ConstructionExterior Lighting Zone3 (Other (LZ3))                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| nstruction Site: Owner/Agent: Designer/Contractor:<br>L0 NW Chipman Road Gemini Engineering Group<br>ae's Summit, MO 101 Nightlinger Ln<br>Milsap, TX 76066<br>(817) 901-5191                                                                                                                                                                                                                       |                                                                                                                                                                                                                                                                                                           | Construction Site: Owner/Agent: Designer/Contra<br>610 NW Chipman Road Gemini Engli<br>Lee's Summit, MO 101 Nightline<br>(817) 901-51                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| redits: 1.0 Required  1.0 Proposed<br>Reduced Lighting Power, 1.0 credit                                                                                                                                                                                                                                                                                                                            |                                                                                                                                                                                                                                                                                                           | Allowed Exterior Lighting Power                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| owed Interior Lighting Power<br>A B C D<br>Area Category Floor Area Allowed Allowed Watts                                                                                                                                                                                                                                                                                                           |                                                                                                                                                                                                                                                                                                           | A B C<br>Area/Surface Category Quantity Allowed Tr                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| (ft2)Watts / ft2(B X C)RESTROOM (Common Space Types:Restrooms)500.7738                                                                                                                                                                                                                                                                                                                              |                                                                                                                                                                                                                                                                                                           | Watts / UnitWDRIVE THRU (Free standing/attached sales canopy)145 ft20.6WALK-UP WINDOW (Entry canopy)174 ft20.4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| FFICE (Common Space Types:Office - Enclosed)610.8451ERVICE (Common Space Types:Food Preparation)4860.95462ES (Common Space Types:Electrical/Mechanical)990.3939                                                                                                                                                                                                                                     |                                                                                                                                                                                                                                                                                                           | Parking area (Parking area)<br>Total Tradable V<br>Total Allowe                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| Total Allowed Watts = 590                                                                                                                                                                                                                                                                                                                                                                           |                                                                                                                                                                                                                                                                                                           | Total Allowed Supplemental V<br>(a) Wattage tradeoffs are only allowed between tradable areas/surfaces.<br>(b) A supplemental allowance equal to 500 watts may be applied toward compliance of both non-tradable and i                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| A B C D E<br>Fixture ID : Description / Lamp / Wattage Per Lamp / Ballast Lamps/ # of Fixture (C X D)<br>Fixture Fixtures Watt.                                                                                                                                                                                                                                                                     |                                                                                                                                                                                                                                                                                                           | Proposed Exterior Lighting Power                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| RESTROOM (Common Space Types:Restrooms)<br>G4/G4E: G4/G4E: 2X4 LED TROFFER: LED Panel 36W: 1 1 36 36                                                                                                                                                                                                                                                                                                |                                                                                                                                                                                                                                                                                                           | Fixture ID : Description / Lamp / Wattage Per Lamp / Ballast Lamps/<br>Fixture F                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| DFFICE (Common Space Types:Office - Enclosed)         G4/G4E: G4/G4E: 2X4 LED TROFFER: LED Panel 36W:         1       1       36       36         SERVICE (Common Space Types:Food Preparation)                                                                                                                                                                                                     |                                                                                                                                                                                                                                                                                                           | DRIVE THRU (Free standing/attached sales canopy 145 ft2): Tradable Wattage<br>D: D: RECESSED LED: Other: 1<br>WALK-UP WINDOW (Entry canopy 174 ft2): Tradable Wattage                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| G4/G4E: G4/G4E: 2X4 LED TROFFER: LED Panel 36W:       1       8       36       288         D: D: RECESSED: Other:       1       4       16       64         SES (Common Space Types:Electrical/Mechanical)       64                                                                                                                                                                                 |                                                                                                                                                                                                                                                                                                           | D: D: RECESSED LED: Other: 1<br>WS: WS: SCONCE: Other: 1<br>Parking area ( Parking area 30000 ft2): Tradable Wattage                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| <u>a/S4E: S4/S4E: PENDANT: Other:</u><br>1 2 40 80<br>Total Proposed Watts = 504                                                                                                                                                                                                                                                                                                                    |                                                                                                                                                                                                                                                                                                           | S1: S1: LED POLE LIGHTS: Other: 1<br>Total Tradable                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| erior Lighting PASSES: Design 15% better than code<br>erior Lighting Compliance Statement                                                                                                                                                                                                                                                                                                           |                                                                                                                                                                                                                                                                                                           | Exterior Lighting PASSES: Design 81% better than code<br>Exterior Lighting Compliance Statement                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| <i>mpliance Statement:</i> The proposed interior lighting design represented in this document is consistent with the building plans,<br>accifications, and other calculations submitted with this permit application. The proposed interior lighting systems have been<br>signed to meet the 2018 IECC requirements in COM <i>check</i> Version 4.1.5.5 and to comply with any applicable mandatory |                                                                                                                                                                                                                                                                                                           | <i>Compliance Statement:</i> The proposed exterior lighting design represented in this document is consistent specifications, and other calculations submitted with this permit application. The proposed exterior l designed to meet the 2018 IECC requirements in COM <i>check</i> Version 4.1.5.5 and to comply with any                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| equirements listed in the Inspection Checklist.                                                                                                                                                                                                                                                                                                                                                     |                                                                                                                                                                                                                                                                                                           | requirements listed in the Inspection Checklist.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| Name - Title       Of / 30 / 2024         Jate                                                                                                                                                                                                                                                                                                                                                      | | Section<br>#<br>@ Req.1D         Rough-In Electrical Inspection         Complies?         Comments           C405.2.2.<br>[E122] <sup>1</sup> Spaces required to have light:<br>reduct the connected lighting load in<br>a reasonably unform illumination<br>pattern >= 50 percent.         Complies<br>Does Not         Requirement will be met.           C405.2.1.<br>C405.2.1.<br>C405.2.1.<br>C405.2.1.<br>Castroom/lecture/training rooms,<br>conference/meeting/multipurpose<br>rooms, copy/print rooms,<br>lounges/breakrooms, enclosed office,<br>open plan office areas, restrooms,<br>storage rooms, locker rooms,<br>storage rooms, locker rooms,<br>storage rooms, locker rooms,<br>marchouses storage areas, and other<br>spaces <= 300 sqft that are enclosed<br>by floor-to-ceiling hight partitions.<br>Reference section language<br>C405.2.1.2 for control function in<br>warchouses, the<br>lighting in aisleways and open areas is<br>controlled with occupant sensors that<br>automatically reduce lighting power<br>by 50% or more when the areas are<br>unoccupied. The ocupant sensors that<br>automatically reduce lighting power<br>by 50% or more when the areas are<br>unoccupied. The ocupant sensor<br>control lighting in each aisleway<br>bindpendenty and do not control<br>lighting beyond the aisleway being<br>controlled by the sensor.         Complies<br>Does Not<br>Not Observable         Requirement will be met.           C405.2.1.<br>for open plan office areas: Occupant<br>sensor controls in open office areas: Occupant<br>be controlled by the sensor.         Complies<br>Does Not<br>Not Observable         Requirement will be met.           C405.2.1.<br>for open plan office areas: Occupant<br>sensor controls in open office areas: Occupant<br>sensor controls in open office areas: Occupant<br>sensor control in open office areas: Occupa |
|                                                                                                                                                                                                                                                                                                                                                                                                     |                                                                                                                                                                                                                                                                                                           | within 20 minutes of all occupants<br>leaving that control zone, and 4) are<br>configured such that any daylight<br>responsive control will activate space<br>general lighting or control zone<br>general lighting only when occupancy<br>for the same area is detected.       C405.2.2,<br>Each area not served by occupancy<br>sensors (per C405.2.1) have time-<br>switch controls and functions detailed<br>in sections C405.2.2.1 and C405.2.2.2.       Complies<br>Does Not<br>Not Observable<br>Not Applicable                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |

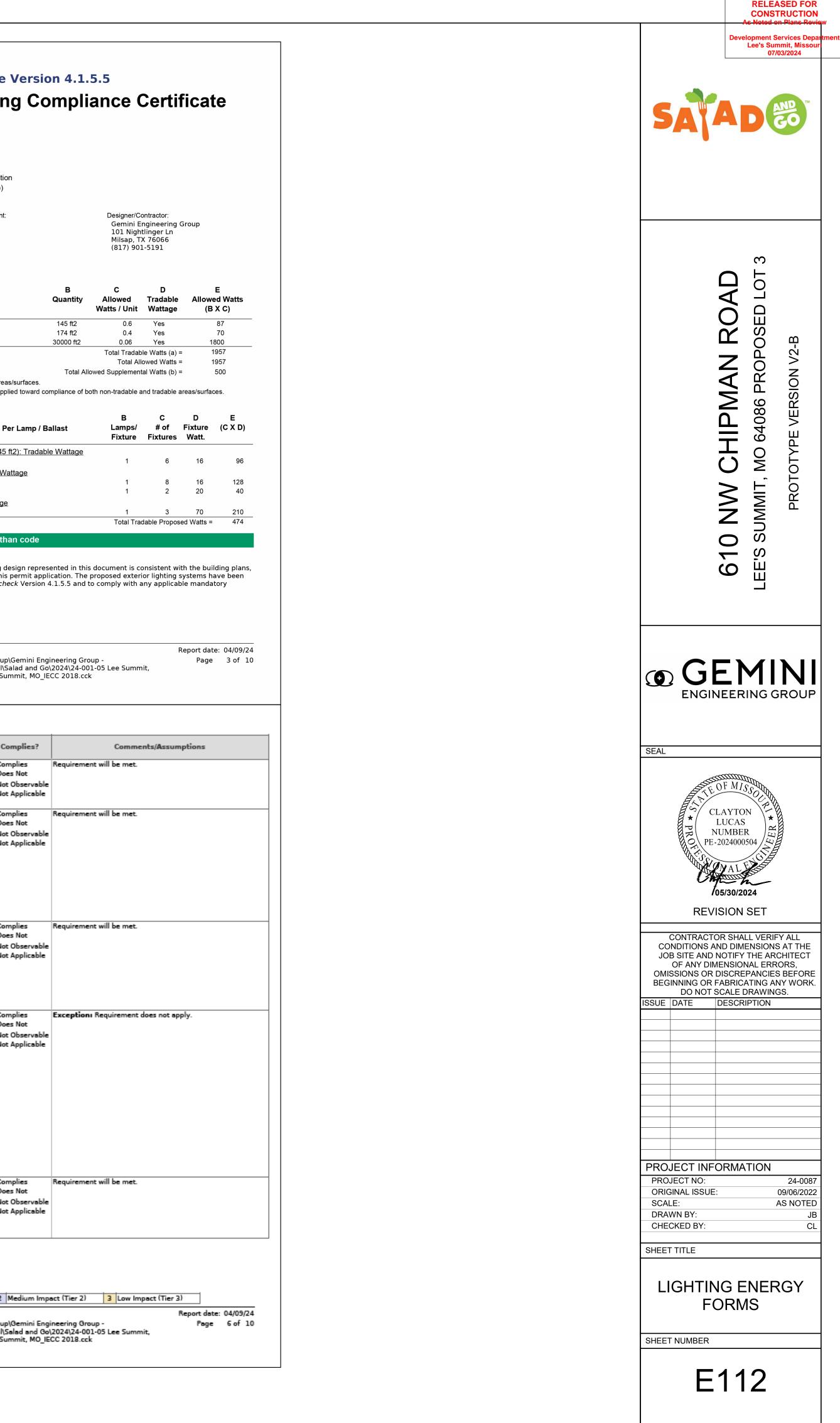
| V                              |
|--------------------------------|
| Project Information            |
| Energy Code:                   |
| Project Title:                 |
| Project Type:                  |
| Exterior Lighting Zone         |
| Construction Site:             |
| 610 NW Chipman Road            |
| Lee's Summit, MO               |
|                                |
| Allowed Exterior Lighting Powe |
| А                              |
| Area/Surface Catego            |

| Λ. | <b>COM</b> <i>check</i> Software Version 4.1.5.5                                   |       |
|----|------------------------------------------------------------------------------------|-------|
|    | <b>COM</b> <i>check</i> Software Version 4.1.5.5<br>Exterior Lighting Compliance ( | Certi |

| Energy Code:                                                                                                                                                                                                      | 2018 IECC                                                                                                                                                                        |                                                                      |                                                                      |                                                                      |                                 |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------|----------------------------------------------------------------------|----------------------------------------------------------------------|---------------------------------|
| Project Title:                                                                                                                                                                                                    | Salad & Go                                                                                                                                                                       |                                                                      |                                                                      |                                                                      |                                 |
| Project Type:                                                                                                                                                                                                     | New Construction                                                                                                                                                                 |                                                                      |                                                                      |                                                                      |                                 |
| Exterior Lighting Zone                                                                                                                                                                                            | 3 (Other (LZ3))                                                                                                                                                                  |                                                                      |                                                                      |                                                                      |                                 |
| Exterior Lighting Zone                                                                                                                                                                                            | S (Other (LZS))                                                                                                                                                                  |                                                                      |                                                                      |                                                                      |                                 |
| Construction Site:<br>610 NW Chipman Road<br>Lee's Summit, MO                                                                                                                                                     | Owner/Agent:                                                                                                                                                                     |                                                                      |                                                                      | ngineering<br>tlinger Ln<br>X 76066                                  | Group                           |
| Allowed Exterior Lighting P                                                                                                                                                                                       | Power                                                                                                                                                                            |                                                                      |                                                                      |                                                                      |                                 |
| A<br>Area/Surface Ca                                                                                                                                                                                              | tegory                                                                                                                                                                           | B<br>Quantity                                                        | C<br>Allowed                                                         | D<br>Tradable                                                        | Allo                            |
|                                                                                                                                                                                                                   |                                                                                                                                                                                  |                                                                      | Watts / Unit                                                         | Wattage                                                              | ,                               |
| DRIVE THRU (Free standing/attach                                                                                                                                                                                  | ed sales canopy)                                                                                                                                                                 | 145 ft2                                                              | 0.6                                                                  | Yes                                                                  |                                 |
| WALK-UP WINDOW (Entry canopy)                                                                                                                                                                                     | )                                                                                                                                                                                | 174 ft2                                                              | 0.4                                                                  | Yes                                                                  |                                 |
| Parking area (Parking area)                                                                                                                                                                                       |                                                                                                                                                                                  | 30000 ft2                                                            | 0.06                                                                 | Yes                                                                  |                                 |
|                                                                                                                                                                                                                   |                                                                                                                                                                                  |                                                                      |                                                                      | ole Watts (a)                                                        |                                 |
|                                                                                                                                                                                                                   |                                                                                                                                                                                  |                                                                      | Total All                                                            | owed Watts                                                           | _                               |
|                                                                                                                                                                                                                   |                                                                                                                                                                                  |                                                                      |                                                                      |                                                                      |                                 |
|                                                                                                                                                                                                                   |                                                                                                                                                                                  |                                                                      | owed Supplement                                                      |                                                                      |                                 |
|                                                                                                                                                                                                                   | owed between tradable areas/surf<br>ual to 500 watts may be applied to<br><b>Power</b>                                                                                           | aces.                                                                | owed Supplement                                                      | tal Watts (b)                                                        | =                               |
| (b) A supplemental allowance eq                                                                                                                                                                                   | ual to 500 watts may be applied to                                                                                                                                               | aces.                                                                | owed Supplement                                                      | tal Watts (b)                                                        | =                               |
| (b) A supplemental allowance eq<br>Proposed Exterior Lighting                                                                                                                                                     | ual to 500 watts may be applied to <b>Power</b>                                                                                                                                  | faces.<br>ward compliance of bo                                      | owed Supplement                                                      | tal Watts (b) :<br>and tradable a                                    | =<br>areas/su<br>D<br>Fixtur    |
| (b) A supplemental allowance eq<br>Proposed Exterior Lighting                                                                                                                                                     | ual to 500 watts may be applied to<br>Power<br>A<br>tion / Lamp / Wattage Per La                                                                                                 | faces.<br>oward compliance of bo<br>nmp / Ballast                    | owed Supplement<br>oth non-tradable a<br>B<br>Lamps/                 | tal Watts (b)<br>and tradable<br>C<br># of                           | =<br>areas/su<br>D<br>Fixtur    |
| (b) A supplemental allowance eq<br>Proposed Exterior Lighting<br>Fixture ID : Descrip                                                                                                                             | ual to 500 watts may be applied to<br>Power<br>A<br>tion / Lamp / Wattage Per La                                                                                                 | faces.<br>oward compliance of bo<br>nmp / Ballast                    | owed Supplement<br>oth non-tradable a<br>B<br>Lamps/                 | tal Watts (b)<br>and tradable<br>C<br># of                           | =<br>areas/su<br>D<br>Fixtur    |
| (b) A supplemental allowance eq<br>Proposed Exterior Lighting<br>Fixture ID : Descrip<br>DRIVE THRU ( Free standing/at                                                                                            | ual to 500 watts may be applied to<br>Power<br>A<br>tion / Lamp / Wattage Per La<br>tached sales canopy 145 ft2):                                                                | faces.<br>ward compliance of bo<br>Imp / Ballast<br>Tradable Wattage | owed Supplement<br>oth non-tradable a<br>B<br>Lamps/<br>Fixture      | tal Watts (b)<br>and tradable a<br>C<br># of<br>Fixtures             | =<br>D<br>Fixtur<br>Watt        |
| (b) A supplemental allowance eq<br>Proposed Exterior Lighting<br>Fixture ID : Descrip<br>DRIVE THRU ( Free standing/att<br>D: D: RECESSED LED: Other:<br>WALK-UP WINDOW ( Entry can<br>D: D: RECESSED LED: Other: | ual to 500 watts may be applied to<br>Power<br>A<br>tion / Lamp / Wattage Per La<br>tached sales canopy 145 ft2):                                                                | faces.<br>ward compliance of bo<br>Imp / Ballast<br>Tradable Wattage | owed Supplement<br>oth non-tradable a<br>B<br>Lamps/<br>Fixture<br>1 | tal Watts (b) =<br>and tradable a<br>C<br># of<br>Fixtures<br>6<br>8 | =<br>D<br>Fixtur<br>Watt.<br>16 |
| (b) A supplemental allowance eq<br>Proposed Exterior Lighting<br>Fixture ID : Descrip<br>DRIVE THRU ( Free standing/at<br>D: D: RECESSED LED: Other:<br>WALK-UP WINDOW ( Entry can                                | ual to 500 watts may be applied to<br>Power<br>A<br>tion / Lamp / Wattage Per La<br>tached sales canopy 145 ft2):                                                                | faces.<br>ward compliance of bo<br>Imp / Ballast<br>Tradable Wattage | owed Supplement<br>oth non-tradable a<br>B<br>Lamps/<br>Fixture      | tal Watts (b) =<br>and tradable =<br>C<br># of<br>Fixtures<br>6      | =<br>D<br>Fixtur<br>Watt.<br>16 |
| (b) A supplemental allowance eq<br>Proposed Exterior Lighting<br>Fixture ID : Descrip<br>DRIVE THRU ( Free standing/att<br>D: D: RECESSED LED: Other:<br>WALK-UP WINDOW ( Entry can<br>D: D: RECESSED LED: Other: | ual to 500 watts may be applied to<br>Power<br>A<br>tion / Lamp / Wattage Per La<br>tached sales canopy 145 ft2):<br>opy 174 ft2): Tradable Wattage<br>00 ft2): Tradable Wattage | faces.<br>ward compliance of bo<br>Imp / Ballast<br>Tradable Wattage | owed Supplement<br>oth non-tradable a<br>B<br>Lamps/<br>Fixture<br>1 | tal Watts (b) =<br>and tradable a<br>C<br># of<br>Fixtures<br>6<br>8 | =<br>D<br>Fixtur<br>Watt.<br>16 |

ing design represented in this document is consistent with the building plans, n this permit application. The proposed exterior lighting systems have been M*check* Version 4.1.5.5 and to comply with any applicable mandatory

| Section<br>#<br>& Req.ID                                              | Rough-In Electrical Inspection                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Complies?                                                | Comments/Assur                     |
|-----------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------|------------------------------------|
| C405.2.2.<br>2<br>[EL22] <sup>1</sup>                                 | Spaces required to have light-<br>reduction controls have a manual<br>control that allows the occupant to<br>reduce the connected lighting load in<br>a reasonably uniform illumination<br>pattern >= 50 percent.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Complies<br>Does Not<br>Not Observable<br>Not Applicable | Requirement will be met.           |
| C405.2.1,<br>C405.2.1.<br>1<br>[EL18] <sup>1</sup>                    | Occupancy sensors installed in<br>classrooms/lecture/training rooms,<br>conference/meeting/multipurpose<br>rooms, copy/print rooms,<br>lounges/breakrooms, enclosed offices,<br>open plan office areas, restrooms,<br>storage rooms, locker rooms,<br>warehouse storage areas, and other<br>spaces <= 300 sqft that are enclosed<br>by floor-to-ceiling height partitions.<br>Reference section language<br>C405.2.1.2 for control function in<br>warehouses and section C405.2.1.3<br>for open plan office spaces.                                                                                                                                                                                                                                                                                                                                           | Complies<br>Does Not<br>Not Observable<br>Not Applicable | Requirement will be met.           |
| C405.2.1.<br>2<br>[EL19] <sup>1</sup>                                 | Occupancy sensors control function in<br>warehouses: In warehouses, the<br>lighting in aisleways and open areas is<br>controlled with occupant sensors that<br>automatically reduce lighting power<br>by 50% or more when the areas are<br>unoccupied. The occupant sensors<br>control lighting in each aisleway<br>independently and do not control<br>lighting beyond the aisleway being<br>controlled by the sensor.                                                                                                                                                                                                                                                                                                                                                                                                                                       | Complies<br>Does Not<br>Not Observable<br>Not Applicable | Requirement will be met.           |
| C405.2.1.<br>3<br>[EL20] <sup>1</sup>                                 | Occupant sensor control function in<br>open plan office areas: Occupant<br>sensor controls in open office spaces<br>>= 300 sq.ft. have controls 1)<br>configured so that general lighting can<br>be controlled separately in control<br>zones with floor areas <= 600 sq.ft.<br>within the space, 2) automatically turn<br>off general lighting in all control zones<br>within 20 minutes after all occupants<br>have left the space, 3) are configured<br>so that general lighting power in each<br>control zone is reduced by >= 80% of<br>the full zone general lighting power<br>within 20 minutes of all occupants<br>leaving that control zone, and 4) are<br>configured such that any daylight<br>responsive control will activate space<br>general lighting or control zone<br>general lighting only when occupancy<br>for the same area is detected. |                                                          | Exception: Requirement does not ap |
| C405.2.2,<br>C405.2.2.<br>1,<br>C405.2.2.<br>2<br>[EL21] <sup>2</sup> | Each area not served by occupancy<br>sensors (per C405.2.1) have time-<br>switch controls and functions detailed<br>in sections C405.2.2.1 and C405.2.2.2.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Complies<br>Does Not<br>Not Observable<br>Not Applicable | Requirement will be met.           |



| Section<br>#<br>& Req.ID                                              | Rough-In Electrical Inspection                                                                                                                                                                                                                                                                 | Complies?                                                    | Comments/Assumptions                                                       |
|-----------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------|----------------------------------------------------------------------------|
| C405.2.3,<br>C405.2.3.<br>1,<br>C405.2.3.<br>2<br>[EL23] <sup>2</sup> | individual controls that control the<br>lights independent of general area<br>lighting. See code section C405.2.3<br>Daylight-responsive controls for<br>applicable spaces, C405.2.3.1 Daylight<br>responsive control function and<br>section C405.2.3.2 Sidelit zone.                         | □Complies<br>□Does Not<br>□Not Observable<br>□Not Applicable | Exception: Sidelit zones on first floor in Group A-2 and M<br>occupancies. |
| C405.2.4<br>[EL26] <sup>1</sup>                                       | specific uses installed per approved<br>lighting plans.                                                                                                                                                                                                                                        | Complies<br>Does Not<br>Not Observable<br>Not Applicable     | Requirement will be met.                                                   |
| C405.2.4<br>[EL27] <sup>1</sup>                                       | Additional interior lighting power<br>allowed for special functions per the<br>approved lighting plans and is<br>automatically controlled and<br>separated from general lighting.                                                                                                              | Complies<br>Does Not<br>Not Observable<br>Not Applicable     | Requirement will be met.                                                   |
| C405.2.5<br>[EL28] <sup>null</sup>                                    | energy code are in a location with<br>ready access to occupants and<br>located where the controlled lights are<br>visible, or identify the area served and<br>their status.                                                                                                                    | □Complies<br>□Does Not<br>□Not Observable<br>□Not Applicable | Requirement will be met.                                                   |
| C405.2.6<br>[EL30] <sup>null</sup>                                    | Automatic lighting controls for exterior<br>lighting installed. Controls will be<br>daylight controlled, set based on<br>business operation time-of-day, or<br>reduce connected lighting > 30%.                                                                                                | Complies<br>Does Not<br>Not Observable<br>Not Applicable     | Requirement will be met.                                                   |
| C405.3<br>[EL6] <sup>1</sup>                                          | Exit signs do not exceed 5 watts per<br>face.                                                                                                                                                                                                                                                  | Complies<br>Does Not<br>Not Observable<br>Not Applicable     | Requirement will be met.                                                   |
| C405.6<br>[EL26] <sup>2</sup>                                         | electric transformers meet the<br>minimum efficiency requirements of<br>Table C405.6.                                                                                                                                                                                                          | Complies<br>Does Not<br>Not Observable<br>Not Applicable     | Requirement will be met.                                                   |
| C405.7<br>[EL27] <sup>2</sup>                                         | efficiency requirements of Tables<br>C405.7(1) through C405.7(4).<br>Efficiency verified through certification<br>under an approved certification<br>program or the equipment efficiency<br>ratings shall be provided by motor<br>manufacturer (where certification<br>programs do not exist). | □Complies<br>□Does Not<br>□Not Observable<br>□Not Applicable | Requirement will be met.                                                   |
| C405.8.2,<br>C405.8.2.<br>1<br>[EL28] <sup>2</sup>                    | with ASME A17.1/CSA B44 and have<br>automatic controls configured to<br>reduce speed to the minimum                                                                                                                                                                                            | Complies<br>Does Not<br>Not Observable<br>Not Applicable     | Requirement will be met.                                                   |
| C405.9<br>[EL29] <sup>2</sup>                                         | combination of feeders and branch<br>circuits <= 5%.                                                                                                                                                                                                                                           | Complies<br>Does Not<br>Not Observable<br>Not Applicable     | Requirement will be met.                                                   |

|                | 1 High Impact (Tier 1) 2 Medium                                                                                                               | Impact (Tier 2) 3      | Low Impact (Tier 3) |          |
|----------------|-----------------------------------------------------------------------------------------------------------------------------------------------|------------------------|---------------------|----------|
| Project Title: | Salad & Go                                                                                                                                    |                        | Report date:        | 04/09/24 |
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| roject Title: | Salad & Go                                                                                                                                                                                                       | Report date: |       |
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|               |                                                                                                                                                                                                                  |              |       |

|                                                                |                                   | Section<br>#<br>& Reg.ID              | Final Inspection                                                                                                                                                                                                                                                                                                            | Complies?                                                | Comments/Assu                                |
|----------------------------------------------------------------|-----------------------------------|---------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------|----------------------------------------------|
|                                                                |                                   | C303.3,                               | Furnished O&M instructions for<br>systems and equipment to the<br>building owner or designated<br>representative.                                                                                                                                                                                                           | Complies<br>Does Not<br>Not Observable<br>Not Applicable | Requirement will be met.                     |
|                                                                |                                   | C405.4.1<br>[FI18] <sup>1</sup>       | Interior installed lamp and fixture<br>lighting power is consistent with what<br>is shown on the approved lighting<br>plans, demonstrating proposed watts<br>are less than or equal to allowed<br>watts.                                                                                                                    | Complies<br>Does Not<br>Not Observable<br>Not Applicable | See the Interior Lighting fixture schedule ( |
|                                                                |                                   | (FI19) <sup>1</sup>                   | Exterior lighting power is consistent<br>with what is shown on the approved<br>lighting plans, demonstrating<br>proposed watts are less than or equal<br>to allowed watts.                                                                                                                                                  | Complies<br>Does Not<br>Not Observable<br>Not Applicable | See the Exterior Lighting fixture schedule   |
|                                                                |                                   | C408.1.1<br>[FI57] <sup>1</sup>       | Building operations and maintenance<br>documents will be provided to the<br>owner. Documents will cover<br>manufacturers' information,<br>specifications, programming<br>procedures and means of illustrating<br>to owner how building, equipment and<br>systems are intended to be installed,<br>maintained, and operated. | Complies<br>Does Not<br>Not Observable<br>Not Applicable | Requirement will be met.                     |
|                                                                |                                   | C408.2.5.<br>1<br>[FI16] <sup>3</sup> | Furnished as-built drawings for<br>electric power systems within 90 days<br>of system acceptance.                                                                                                                                                                                                                           | Complies<br>Does Not<br>Not Observable<br>Not Applicable | Requirement will be met.                     |
|                                                                |                                   | C408.3<br>[FI33] <sup>1</sup>         | Lighting systems have been tested to<br>ensure proper calibration, adjustment,<br>programming, and operation.                                                                                                                                                                                                               | Complies<br>Does Not<br>Not Observable                   | Requirement will be met.                     |
|                                                                |                                   |                                       |                                                                                                                                                                                                                                                                                                                             |                                                          |                                              |
| Impact (Tier 1) 2 Medium Impact (Tier 2) 3 Low Impact (Tier 3) | ]                                 |                                       | 1 High Impact (Tier 1)                                                                                                                                                                                                                                                                                                      | 2 Medium Imp                                             | act (Tier 2) 3 Low Impact (Tier              |
|                                                                | rt date: 04/09/24<br>Page 8 of 10 | Project Title<br>Data filena          | e: Salad & Go<br>me: C:\Users\jbour\Gemini Engineering<br>Documents\Projects\Retail_Comme<br>MO\Design\6_Energy\Salad&GO_Le                                                                                                                                                                                                 | rical\Salad and Go                                       | 2024\24-001-05 Lee Summit,                   |

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