



VICINITY MAP





LEE'S SUMMIT, MO

220337BLS APRIL 22, 2022

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BUILDING SUPPLIER



DREW RODIGER PROJECT MANAGER C: 417-425-4546 E: DREW@CMCMOD.COM

LEE LOVEALL OWNER/DESIGN CONSULTANT C: 417.353.1865

E: <u>LEE@CMCMOD.COM</u>

BUILDING CODE INFORMATION

CITY OF LEE'S SUMMIT AUTHORITY HAVING JURISDICTION:

APPLICABLE BUILDING CODES: 2018 IBC, 2017 NEC, 2010 ADA, 2018 INTERNATIONAL FIRE CODE.

CURRENT ZONING: CP-2, PLANNED COMMUNITY COMMERCIAL USE GROUPS: B, BUSINESS

BUILDING LIMITATIONS: ALLOWABLE HEIGHT: 2 STORIES, 40' (BASED ON B USE GROUP, IBC 2018, 504.3) ACTUAL HEIGHT: 2 STORIES, 19'-8"

> ALLOWABLE AREA: 9,000 S.F. (BASED ON B USE GROUP, IBC 2018, 506.2) (SERVING AREA - 468 S.F., MECHANICAL ACCESS - 131 S.F., COOLER - 124 S.F.)

OTHER CODE ITEMS: SEE EGRESS PLAN FOR ADDITIONAL ITEMS

PROJECT DESCRIPTION

PREFABRICATED FREESTANDING BUILDING WITH ACCOMPANYING WALK-IN COOLER DELIVERS COFFEE, TEA, AND ENERGY DRINKS TO CUSTOMERS VIA DRIVE-THROUGH LANES. NO INTERIOR OR EXTERIOR DINING COMPONENT IS PROVIDED; THE INTERIOR IS ONLY OCCUPIED BY STAFF. DRINK ITEMS ARE THE ONLY ITEMS OFFERED ON THE MENU.

GENERAL NOTES

CONSTRUCTION TYPE:

ALL CONSTRUCTION SHALL FOLLOW THE CITY OF LEE'S SUMMIT DESIGN AND CONSTRUCTION MANUAL AS ADOPTED BY ORDINANCE 5831. WHERE DISCREPANCIES EXIST BETWEEN THESE PLANS AND THE DESIGN AND CONSTRUCTION MANUAL, THE DESIGN AND CONSTRUCTION MANUAL SHALL PREVAIL

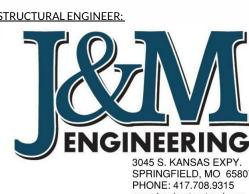
THE CONTRACTOR SHALL CONTACT THE CITY'S DEVELOPMENT SERVICES ENGINEERING INSPECTION TO SCHEDULE A PRE-CONSTRUCTION MEETING WITH A FIELD ENGINEERING INSPECTOR PRIOR TO ANY LAND DISTURBANCE WORK AT (816) 969-1200.

CONSULTANTS

CIVIL ENGINEER:



8040 NORTH OAK TRAFFICWAY KANSAS CITY, MO 64118 (816) 468-5858



MECHANICAL, ELECTRICAL, PLUMBING ENGINEER:





ARCHITECT OF RECORD:

LICENSE NO. 2011002764

NAME: ADAM KREHER

PROJECT NUMBER: 22033 7BLS

REVISION: 1 ADD 001 6/17/22

COVER SHEET

EQUIP	MENT	AND FIXTURE SCHED	ULE			
ITEM NO.	QTY.	MANUFACTURER	PRODUCT	PRODUCT NO.	SIZE	NOTES
EQ-1	1	NOLAKE	REMOTE WALK-IN COOLER	KODB77104-C	675 CUBIC SF	
EQ-2	1	BUNN WATER HEATER	HOT WATER MACHINE	H5X - ELEMENT		
EQ-3	2	LA MARZOCCO	ESPRESSO MACHINE	LINEA PB (AV) - 3		
EQ-4	1	LA MARZOCCO	ESPRESSO MACHINE	LINEA PB (AV) - 4		
EQ-5	2	MANITOWOC	ICE MAKER HEADS	IYF 1800 C		REMOTE CONDENSOR - IF 1800C
EQ-6	1	MANITOWOC	ICE MAKER BIN	LB 1760	60"	
EQ-7	27	TORRANI	SYRUP RACK			
EQ-8	3	VITAMIX	BLENDER			
EQ-9	4	EAGLE GROUP	STAINLESS STEEL STORAGE SHELVING	(1) SS 1872 - PZ86S (2) SS 1424 - PZ86S (3) SS 1436 - PZ86S (4) SS 1436 - PZ86S		
EQ-10	2	SPACEMAN	CHILLER MACHINE	6695-C		
EQ-11	3 3	MAZZER	COFFEE BEAN GRINDER	ROBUR S NERO		
EQ-12	1	MAZZER	DECAF COFFEE BEAN GRINDER	SUPER JOLLY PRO V (E) NERO		
EQ-13	1	RUBBERMAID	TRASH CONTAINER			
EQ-14	1	ATOSA	REACH-IN COOLER	MCF8723GR		
EQ-15	3	LA CROSSR	MOBILE ICE BINS	513034 CL-24ICCCAB-31		
EQ-16	1	CONTINENTAL	UNERCOUNTER COOLER	SW36NGD-U		
EQ-17	3	STRONGWAY	AIR CURTAIN	49947		
EQ-18	3		RAPID RINSER			

EQUIPMENT SCHEDULE NOTES:

a. ALL EQUIPMENT TO BE INSTALLED BY A LICENSED INSTALLER AND THE MANUFACTURERS SPECIFICATIONS.

GENERAL SCHEDULE NOTES:

THE ITEMS IDENTIFIED ON THE FINISH MATERIALS SCHEDULE, EQUIPMENT AND FIXTURE SCHEDULES HAVE BEEN SELECTED AND APPROVED FOR THE USE ON 7 BREW COFFEE PROJECTS AS "STANDARDS". ITEMS SPECIFIED MAY OR MAY NOT ACTUALLY APPEAR ON THE DRAWINGS. THE DESCRIPTIONS ARE TO IDENTIFY THE PRODUCTS AND NOT TO DETERMINE THE INCLUSION OR USE OF ANY PARTICULAR ITEM.

SYMBOL	ITEM	DESCRIPTION	REMARKS
FRP-1	MEG-WALLS	WHITE	MEG PANELS
MP-1	METAL SIDING	CUSTOM COLOR: ZINC GRAY FINISH: SMOOTH	EXTERIOR SIDING
MP-2	BRAKE METAL	COLOR: SLATE BLUE FINISH: SMOOTH	METAL ROOF, COPING AND CANOPY COLUMNS
MP-3	BRAKE METAL	COLOR: MATTE BLACK FINISH: SMOOTH	METAL SOFFIT AND COPING
MP-4	BRAKE METAL	COLOR: ZINC GRAY FINISH: SMOOTH	METAL COPING AT SIDE WALLS
MP-5	BRAKE METAL	COLOR: COLONIAL RED FINISH: SMOOTH	METAL COPING
PL-1	DECORATIVE PANEL	NICHIHA MODERNBRICK COLOR: MIDNIGHT FIBER CEMENT PANEL	EXTERIOR FINISH
PL-2	DECORATIVE PANEL	NICHIHA CANYONBRICK COLOR: SHALE BROWN FIBER CEMENT PANEL	EXTERIOR FINISH
WC-1	DECORATIVE WALL COVERING	CUSTOM VINYL WALL COVERING	COOLER WALLS
VT-1	RESILIENT VINYL FLOORING	PROTECT-ALL FLOORING COLOR: LIGHT GRAY	SERVICE AREA AND TOILET
VB-1	RESILIENT VINYL BASE	PROTECT-ALL BASE COLOR: LIGHT GRAY	SERVICE AREA AND TOILET

FINISH MATERIALS SCHEDULE NOTES:

- a. PROVIDED BY 7 BREW AND INSTALLED BY GENERAL CONTRACTOR.
- b. ALL MATERIALS AND WORK PROVIDED AND INSTALLED BY GENERAL CONTRACTOR.
- c. PROVIDE A MINIUM OF TWO (2) COATS PAINT OVER ONE (1) COAT PRIMER ON ALL EXPOSED GYP BD IN SERVICE AREA AND TOILET
- d. CEILING AND WALL TO BE SATIN FINISH. DOORS AND DOOR FRAMES TO BE SEMI-GLOSS.

GENERAL CONSTRUCTION PROCEDURES

- 1. ALL CONSTRUCTION SHALL BE EXECUTED IN STRICT COMPLIANCE WITH ALL LOCAL CODES AND ORDINANCES.
 GENERAL CONTRACTOR SHALL COMPLY WITH ALL CONSTRUCTION REGULATIONS AND PROCEDURES ESTABLISHED BY
 THE LANDLORD.
- 2. THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR MAKING APPLICATION FOR AND PROCURING ALL PERMITS AND CERTIFICATES AS MIGHT BE REQUIRED BY GOVERNING AGENCIES AND SHALL BEAR THE COST FOR SUCH PERMITS AND CERTIFICATES. THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING ALL EXISTING CONDITIONS OF THE SITE.
- 3. EVERY EFFORT HAS BEEN MADE TO ASSURE ACCURATE CONSTRUCTION DOCUMENTS, BUT IF A CONFLICT EXISTS THE GENERAL CONTRACTOR SHALL CONTACT THE ARCHITECT IMMEDIATELY FOR CLARIFICATION. THESE DOCUMENTS INDICATE THE DESIGN INTENT AND IF EXISTING CONDITIONS ARE IN CONFLICT THE GENERAL CONTRACTOR SHALL CONTACT THE ARCHITECT IMMEDIATELY FOR CLARIFICATION.
- 4. THE GENERAL CONTRACTOR SHALL MAINTAIN DIRECT SUPERVISION OVER ALL SUBCONTRACTORS AND SHARE RESPONSIBILITY FOR THEIR PERFORMANCE AND QUALITY OF WORK. A LIST OF ALL SUBCONTRACTORS SHALL BE PROVIDED TO THE OWNER AND THE ARCHITECT. A COPY OF THIS LIST SHALL BE POSTED ON THE JOB SITE.
- 5. ALL SIGNAGE AND MOUNTING DEVICES SHALL BE PROVIDED, AND ALL SIGNAGE APPOVALS OBTAINED, BY OWNERS SIGN CONTRACTOR. GENERAL CONTRACTOR SHALL PROVIDE ELECTRICAL POWER AS REQUIRED AND INSURE SUFFICIENT SPACE AND CLEARANCE IS PROVIDED FOR PROPER INSTALLATION. SIGNAGE CONTRACTOR SHALL APPLY FOR AND SECURE ALL APPROVALS REQUIRED BY ALL LOCAL GOVERNING AGENCIES AND SUPPLY ANY DRAWINGS OR GRAPHIC REPRESENTATIONS REQUIRED BY LANDLORD.
- ALL CONCEALED WOOD BLOCKING USED IN CONSTRUCTION SHALL BE FIRE-RETARDENT TREATED (IF APPLICABLE).
 GENERAL CONTRACTOR SHALL PERFORM AND/OR CAUSE TO BE PERFORMED ALL WORK IN A FIRST-CLASS WORKMANLIKE MANNER AND IN ACCORDANCE WITH EACH TRADE'S ESTABLISHED PROCEDURES AND
- 8. ALL PRODUCTS USED ON THIS PROJECT SHALL BE FIRST QUALITY, NEW AND FREE OF ASBESTOS OR OTHER ENVIRONMENTALLY UNSAFE SUBSTANCES.
- 9. MILLWORK, BASE, DESIGNATED TRIM, ETC. SHALL BE PROVIDED BY OWNER AND INSTALLED BY CONTRACTOR WHERE INDICATED ON THE DRAWINGS AND/OR SCHEDULES.
- 10. GENERAL CONTRACTOR SHALL CONTACT ARCHITECT PRIOR TO CONSTRUCTION START DATE TO CONFIRM THAT HE/SHE HAS LATEST APPROVED CONSTRUCTION DOCUMENTS FOR THIS LOCATION.

SUSTAINABILITY GUIDELINES

MANUFACTURER'S RECOMMENDATIONS FOR PRODUCT USE AND INSTALLATION.

THE FOLLOWING GUIDELINES TO BE USED BY GENERAL CONTRACDTOR ARE VOLUNTARY IN NATURE. IT IS HIGHLY RECOMMENDED THAT THE GENERAL CONTRACTOR FOLLOW THESE GUIDELINES TO THE EXTENT IT IS FEASIBLE..

- 1. IMPROVE INDOOR AIR QUALITY:
- A. REDUCE CONSTRUCTION DUST AND AIR PARTICULATES WITH DUST CONTAINMENT SYSTEMS AND/OR SHUT
- B. CHANGE HVAC FILTERS AT THE CONCLUSION OF THE JOB.
- C. USE LOW V.O.C. PAINTS, ADHESIVES, SEALANTS, ETC

PREFABRICATED BUILDING

THIS BUILDING IS BEING FABRICATED IN A CONTROLLED ENVIRONMENT AND TRANSFERRED TO THE JOB SITE.
CJD ENGINEERING GROUP HAS BEEN ENGAGED TO CONDUCT 3rd PARTY INSPECTIONS OF ALL FABRICATION WITHIN
THE 7 BREW COFFEE WAREHOUSE. THE INSPECTION WILL INCLUDE STRUCTURAL, FRAMING, BUILDING, PLUMBING
AND ELECTRICAL.

TYPICAL SYMBOL LEGEND

DETAIL NUMBER SHEET NUMBER DETAIL DESIGNATION 12/A3.4	ELEVATION HEIGHT	T.O. WALL 106'-0"
SQUARE FOOTAGE ROOM NUMBER NAME 101 150 SF	ELEVATION TAG	1 A1.1
DOOR TAG (101)	CEILING HEIGHT	0'-0"
SECTION CUT TAG	WINDOW TAG	W1
ROOF SLOPE 2	REVISION DELTA	<u>^</u> 1
WALL TYPE/ PARTITION TYPE	GRID BUBBLE	0
WALL PARTITION	ENLARGED DETAIL	1 101
EXISTING WALL	FINISH TAG	(PT-1)

MATERIAL INDICATION

CONCRETE	A A	FINISHED WOOD	
DIMENSIONAL LUMBER		GYPSUM BOARD	
RIGID INSULATION		PLYWOOD	
BATT OR BLOWN INSULATION		GLASS	
EARTH/BACKFILL		СМИ	

ABBREVIATIONS

ACCOUST.	ACOUSTICAL	FR	FIRE RETARDANT	RCP	REINFORCED
ADD'	ADDITIONAL	FRM		KCI	CONCRETE PIPE
			FRAME	5-	
A.F.F.	ABOVE FINISH FLOOR	FURN	FURNISHED	RE	REFER
AF	AS FURNISHED	F.R.T.	FIRE RETARDANT	R.H.B.	RIGHT HAND BEVEL
Al	AS INSTALLED		TREATED	R.H.R.B.	RIGHT HAND
ALT.	ALTERNATE	FTG	FOOTING		REVERSE BEVEL
ALUM.	ALUMINUM	FUR	FURRING	RL	RAIN LEADER
ANCH.	ANCHOR	GA.	GAUGE	RM	ROOM
ARCH.	ARCHITECT	GAL	GALLON	R.O.	ROUGH OPENING
@ @	AT	GALV	GALVANIZED	RES.	RESILIENT TILE
B.B	BOTTOM OF BEAM	GC	GENERAL CONTRACTOR	REQ'D	REQUIRED
B.F.	BOTTOM OF FOOTING	G.I.	GALVANIZED IRON	REQM'T	REQUIREMENT
BD	BOARD	GLAZ.	GLAZING	R.T.V.	ROTARY-TURBINE VENT
BKT.	BRACKET	GOV'T	GOVERNMENT	REG	REGULAR
BLDG.	BUILDING	G.S.	GRAVEL STOP	SAF	SAFETY
BLK'G	BLOCKING	GEN	GENERAL	SAN	SANITARY
ЗМ	BENCH MARK	GYP	GYPSUM	SCHED	SCHEDULE
B.O.	BOTTOM OF	HDWR	HARDWARE	S.C.	SOLID CORE
BRG	BEARING	H.C.	HOLLOW CORE	SECT	SECTION
BSMT	BASEMENT	HOL	HOLLOW	SHT	SHEET
		HORIZ			SIMILAR
C.S.	COUNTERSUNK		HORIZONTAL	SIM	
CAB.	CABINET	H	HIGH	SPEC	SPECIFICATION
C.C	CENTER-TO-CENTER	HT.	HEIGHT	STND	STANDARD
CEM.	CEMENT	HTG.	HEATING	STD	STUD
CF	CONTRACTOR	HTR	HEATER	STL	STEEL
	FURNISHED	H.W.	HOT WATER	STOR	STORAGE
CFCI	CONTRACTOR	I.D.	INSIDE DIAMETER	STRUCT	STRUCTURE/STRUCTURAL
	FURNISHED	INSUL	INSULATION	SURF	SURFACE
	CONTRACTOR	INT.	INTERIOR	SUSP	SUSPENDED
	INSTALLED	INV	INVERT	SYST	SYSTEM
CI				S.W.	
CI	CONTRACTOR	JNT	JOINT		STORM WATER
	INSTALLED	JSTS	JOISTS	TYP.	TYPICAL
CLG	CEILING	K.E.S.	KITCHEN EQUIPMENT	T.O.	TOP OF
C.O.	CLEAN OUT		SUPPLIER	U.N.O	UNLESS NOTED OTHERWIS
COL	COLUMN	LAM	LAMINATE	VCP	VITRIFIED-CLAY-PIPE
CONC	CONCRETE	LAV	LAVATORY	VEST	VESTIBULE
CONF	CONFERENCE	LG	LONG	VERT	VERTICAL
CONN	CONNECTION	L.H.B.	LEFT HAND BEVEL	VOL	VOLUME
CONST'R	CONSTRUCTION	L.H.R.B.	LEFT HAND	V.T.R.	VENT-THRU-ROOF
CONT	CONTINUOUS	Lii iii (i.b.	REVERSE BEVEL	VCT	VINYL COMPOSITION TILE
CONT'R	CONTRACTOR	LIN	LINEAR / LINEAL	w	WIDE
	CONTRACTOR		-	W/	WITH
COORD		LVR	LOUVER		
CORR	CORRUGATED/	MAS	MASONRY	WD	WOOD
	CORRIDOR	MATL	MATERIAL	W.D.	WINDOW DIMENSION
CTR	CENTER	MAX	MAXIMUM	WDW	WINDOW
CYL	CYLINDER	MEZZ	MEZZANINE	WRB	WEATHER RESISTANT
¢	CENTERLINE	MFRD	MANUFACTURED		BARRIER
C.W.	COLD WATER	MFR	MANUFACTURER	WWF	WELDED WIRE FABRIC
DP	DEEP	MID	MIDDLE	W.P.	WEATHER PROOF
DBL	DOUBLE	MIN	MINIMUM	WT	WEIGHT
DEG	DEGREE	MISC	MISCELLANEOUS		
D.F.		MK	MARK		
	DRINKING FOUNTAIN	M.O.	MASONRY OPENING		
DEMO	DEMOLITION				
DIA Ø	DIAMETER	MTD	MOUNTED		
DIAG	DIAGONAL	MTL	METAL		
DIM	DIMENSION	MULL	MULLION		
D.O.	DO-OVER	NOM	NOMINAL		
DTL	DETAIL	NTS	NOT TO SCALE		
DR	DOOR	O.A.	OVERALL		
D.S.	DOWNSPOUT	O.C.	ON CENTER		
EA.	EACH	OD	OUTSIDE DIAMETER		
EA. ELEC	ELECTRICAL	OFCI	OWNER FURNISHED		
			CONTRACTOR		
ELEV	ELEVATION (VIEW)		INSTALLED		
ELEV	ELEVATOR	OFOI			
E.W.C.	ELECTRIC WATER	OFOI	OWNER FURNISHED		
	COOLER		OWNER INSTALLED		
EQUIP.	EQUIPMENT	O/H	OVERHEAD		
EXIST'G	EXISTING	O/	OVER		
EXP	EXPOSED	OPN'G	OPENING		
EXT	EXTERIOR / EXTENSION	OPP	OPPOSITE		
		PART	PARTITION		
F.B.O.	FURNISHED BY OTHERS	P.E.M.B.	PRE-ENGINEERED		
F.D.	FLOOR DRAIN		METAL BUILDING		
F.E.	FIRE EXTINGUISHER	PERIM	PERIMETER		
F.E.C.	FIRE EXTINGUISHER				
	CABINET	P.G.	PRESENT GRADE		
F.E.B.	FIRE EXTINGUISHER	PLAM	PLASTIC LAMINATE		
•	BRACKET	PLAS	PLASTIC		
FIN	FINISH	PL	PROPERTY LINE		
F.G.	FINISH GRADE	PLUMB'G	PLUMBING		
		PLY	PLYWOOD		
F.L.	FLOW LINE	P.P.	POWERPOLE		
FLASH'G	FLASHING				
FLR	FLOOR	PR	PAIR		
	FACE OF MASONRY	PVC	POLYVINYL CHLORIDE		
		-			
	FOUNDATION	Q.T.	QUARRY TILE		
F.O.M FND		Q.T. R	QUARRY TILE RADIUS		

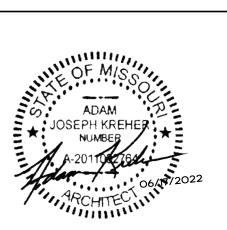
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CONSTRUCTION
As Noted on Plans Review



7 BREW COFFEE

S SUMMIT, MO



ARCHITECT OF RECORD: NAME: ADAM KREHER

PROJECT NUMBER:

GO.1

GENERAL NOTES & SCHEDULES

COLD-FORMED STEEL NOTES

PRODUCT IDENTIFICATION

THE AMERICAN IRON AND STEEL INSTITUTE STANDARDS ARE USED IN THIS PACKAGE. ANY MANUFACTURER WHOSE PRODUCT GEOMETRIES MEETS OR EXCEED AISI STANDARDS ARE ACCEPTABLE

THE LAST TWO NUMBERS INDICATE THE STEEL THICKNESS

COLD-FORMED STEEL FABRICATION AND INSTALLATION SHALL BE IN ACCORDANCE WITH AISI STANDARD FOR COLD-FORMED STEEL FRAMING -GENERAL PROVISIONS

WELDING OF COLD-FORMED STEEL SHALL BE IN ACCORDANCE WITH THE STANDARD CODE OF ARC AND GAS WELDING IN BUILDING CONSTRUCTION. AXIALLY LOADED STUDS SHALL BE POSITIONED DIRECTLY UNDER JOIST BEARING POINTS WHENEVER

POSSIBLE STUDS SHALL NOT BE SPLICED PROVIDE MANUFACTURER'S STANDARD BRIDGING AS NOTED ON STUD TABLES (4' MAX U.N.O.).

ENDS, EACH SIDE OF OPENINGS, AND WHERE INDICATED ON DRAWINGS. ALL NON LOAD-BEARING WALLS.

PROVIDE DOUBLE STUDS, MINIMUM, AT ALL PARTITION

MINIMUM TRACK SIZE SHALL MATCH STUD SIZE U.N.O.

SEE STANDARD LIGHT GAGE DETAILS AND STUD CHARTS FOR ADDITIONAL INFORMATION. ALIGN WEB PUNCHOUTS IN STUD WALLS. WEB PUNCHOUTS MUST BE LOCATED A MINIMUM OF 10" AWAY FROM THE STUD END.

MINIMUM YIELD STRENGTH FOR 18 AND 20 GA COLD-FORMED MEMBERS SHALL BE 33 KSL MINIMUM YIELD STRENGTH FOR 16 GA AND HEAVIER COLD-FORMED MEMBERS SHALL BE 50 KSI. HEADERS AND BUILT-UP BEAMS SHALL BE FORMED

STUDS SHALL NOT BE NOTCHED, SPLICED, OR COPED WITHOUT WRITTEN APPROVAL OF ENGINEER. CUTTING OF STUDS SHALL BE DONE BY SAWING, SHEARING, OR PLASMA CUTTING. OTHER METHODS

FROM UNPUNCHED MEMBERS.

OF CUTTING ARE NOT PERMITTED WITHOUT APPROVAL OF ENGINEER. SEE SPECIFICATIONS FOR ADDITIONAL STRUCTURAL COLD-FORMED FRAMING REQUIREMENTS. SEE SPECIFICATION SECTION 09260 FOR ADDITIONAL REQUIREMENTS FOR COLD-FORMED DRYWALL COMPONENTS ALL MATERIALS AND WORK SHALL CONFORM TO THE CODE LISTED IN THESE DRAWINGS THESE NOTES GIVE MINIMUM REQUIREMENTS WHERE CONFLICTS ARISE BETWEEN THE CODE. THE DRAWINGS, AND THE STRUCTURAL NOTES, THE MORE

ADDITIONAL COLD-FORMED STEEL NOTES

STRINGENT REQUIREMENT SHALL CONTROL

CONTRACTOR SHALL PROVIDE LIGHT GAGE FRAMING SHOP DRAWING SUBMITTAL SUBMITTAL SHAL INCLUDE LIGHT GAGE FRAMING PLANS, DETAILS,

SECTIONS AND ACCESSORIES. LIMIT STUD/HEADER DEFLECTIONS TO L/600 FOR MEMBERS SUPPORTING BRICK VENEER AND L/360 FOR ALL OTHERS.

SUBMITTAL SHALL INCLUDE INTERIOR AND EXTERIOR STUDS AND CEILING/SOFFIT MEMBERS. COOR'D DEFLECTION TRACK AT NON-LOADING BEARING WALLS AND FIREPROOFING REQUIREMENTS W/ ARCH. TRACK (OR CLIPS) SHALL ALLOW 3/4" VERTICAL MOVEMENT UP OR DOWN.

PROVIDE DEFLECTION CLIPS AT TOP OF ALL EXTERIOR NON-LOAD BEARING JAMB MEMBERS PUNCHOUTS SHALL ALIGN AND SHALL NOT BE LOCATED WITHIN 10" OF BASE.

STATEMENT OF SPECIAL INSPECTIONS

SPECIAL INSPECTIONS ARE REQUIRED FOR THIS STRUCTURE IN ACCORDANCE WITH CHAPTER 17 OF THE INTERNATIONAL BUILDING CODE FOR THE ITEMS NOTED IN THE TABLE ON THIS SHEET. TESTING SHALL BE PERFORMED BY A QUALIFIED TESTING LABORATORY RETAINED BY THE OWNER AND APPROVED BY THE ENGINEER.

A LETTER OF SUBSTANTIAL COMPLETION SHALL BE SUBMITTED TO THE BUILDING DEPARTMENT BY THE SPECIAL INSPECTION PROVIDER PRIOR TO THE FINAL INSPECTION.

IBC TABLE 1705.6 REQUIRED VERIFICATION AND INSPECTION OF SOILS VERIFICATION AND INSPECTION TASK CONTINUOUS | PERIODIC VERIFY MATERIALS BELOW SHALLOW FOUNDATIONS ARE ADEQUATE TO ACHIEVE THE DESIGN BEARING CAPACITY. VERIFY EXCAVATIONS ARE EXTENDED TO PROPER Х DEPTH AND HAVE REACHED PROPER MATERIAL. PERFORM CLASSIFICATION AND TESTING OF Х COMPACTED FILL MATERIALS. VERIFY USE OF PROPER MATERIALS, DENSITIES AND LIFT THICKNESSES DURING PLACEMENT AND COMPACTION OF COMPACTED FILL. PRIOR TO PLACEMENT OF COMPACTED FILL, INSPECT SUBGRADE AND VERIFY THAT SITE HAS BEEN PREPARED PROPERLY.

AISI= AMERICAN IRON AND STEEL INSTITUTE ARCH= ARCHITECTURE/ARCHITECT ASTM= AMERICAN SOCIETY FOR TESTING AND MATERIALS A W = AFTER WEI DING AWS= AMERICAN WELDING SOCIETY BAR= REBAR B.O.= BOTTOM OF B.O.A.= BACK OF ANGLE B.O.F. = BOTTOM OF FOOTING 3. B.O.S.= BOTTOM OF STEEL BRG= BEARING BTM= BOTTOM . CANT= CANTILEVERED C.I.P.= CAST-IN-PLACE . C.J.P.= COMPLETE JOINT PENETRATION WELD CENTERLINE . CLR= CLEAR 1. CMU= CONCRETE MASONRY UNIT . COL= COLUMN . CONC= CONCRETE CONN= CONNECTION 5 CONT = CONTINUOUS b. D.B.= DECK BEARING D.B.A.= DEFORMED BAR ANCHOR 8. D.E.= DECK EDGE 9. DIA= DIAMETER 0. DL= DEAD LOAD DTL= **DETAIL** 2. DWG= **DRAWING EXISTING** 6. E.F.= **EACH FACE ELEVATION** 6. EL= EXPANDED POLYSTYRENE . EPS= 38. EQ= EQUAL 39. E.W.= EACH WAY 10. EXT= FXTFRIOR CONCRETE COMPRESSIVE STRENGTH 12 FF= FINISHED FLOOR 3. FND= FOUNDATION 14. F.O.W.= FACE OF WALL 45. F.S.= FAR SIDE 46. FTG= FOOTING 47. F.V.= FIELD VERIFY 8. GA= GAGE / GAUGE 19. GALV= GALVANIZED . G.B.= GRADE BEAM . G.C.= GENERAL CONTRACTOR 2. (H)= 3. H&L= HIGH & LOW 4. H.A.S.= HEADED ANCHOR STUD HORIZ= HORIZONTAL 6. IBC= INTERNATIONAL BUILDING CODE 7 ID= INSIDE DIAMETER 8. INFO= INFORMATION 9. INT= INTERIOR 0. J.B.= JOIST BEARING 31. J.B.E.= JOIST BEARING ELEVATION 2. KIP= 1000 POUNDS 33. KSI= KIPS PER SQUARE INCH 64. (L)= LENGTH 7. LGSF= LIGHT-GAGE STEEL FRAMING 88. LL= LIVE LOAD 9. LLH= LONG LEG HORIZONTAL O. LLV= LONG LEG VERTICAL LONG= LONGITUDINAL 2. L.P.= LAYOUT POINT 3. LVL= LAMINATED VENEER LUMBER 4. LW= LIGHTWEIG 5. MAX= MAXIMUM LIGHTWFIGHT MECH= MECHANICAL MEP= MECHANICAL, ELECTRICAL, PLUMBING 8. MFR= MANUFACTURER 9. MIL= THOUSANDS OF AN INCH O. MIN= MINIMUM 1. MISC= MISCELLANEOUS 2. MTL= 33. N.I.C.= NOT IN CONTRACT 4. N.S.= NEAR SIDE 35. N.T.S.= NOT TO SCALE 6. N.W.= NORMAL WEIGHT . O.C.= ON CENTER O.D.= OUTSIDE DIAMETER 89. OPP= OPPOSITE / OPPOSITE HAND) PAF= POWDER ACTUATED FASTENER 1 P.C.E. = POLINDS PER CLIBIC FOOT 22. PEMB= PRE-ENGINEERED METAL BUILDING 93. PLF= POUNDS PER LINEAR FOOT PRESERVATIVE PRESSURE TREATED 5. PSF= POUNDS PER SQUARE FOOT POUNDS PER SQUARE INCH 7. PT= POST TENSIONED 8. REINF= REINFORCING 99. REQ= REQUIRE 100. RTU= ROOF TOP UNIT 101. S.C.= SLIP CRITICAL 102. SCH= SCHEDULE STEEL DECK INSTITUTE 103. SDI= 104. SIM= SIMILAR 105. SJI= STEEL JOIST INSTITUTE SNOW LOAD 106 SI = 107. S.O.G.= SLAB ON GRADE 108. SPECS= SPECIFICATIONS 109 STD= STANDARD 110. STL= STEEL THICKNESS 112. T&B= TOP AND BOTTOM 113. T.O.= TOP OF 114. T.O.F. TOP OF FOOTING 115. T.O.P.= TOP OF PEDESTAL 16. T.O.S.= TOP OF STEEL

ABBREVIATIONS

A.B.= ANCHOR BOLT

AMERICAN CONCRETE INSTITUTE

AISC= AMERICAN INSTITUTE OF STEEL CONSTRUCTION

POST-INSTALLED ANCHOR NOTES

117. T.O.W.= TOP OF WALL

119. UL= ULTIMATE LOAD

WIDTH

122. VLD= VERTICAL LEG DOWN

126. WWF= WELDED WIRE FABRIC

120. U.N.O.= UNLESS NOTED OTHERWISE

118. TYP= TYPICAL

121. VERT= VERTICAL

124 WI = WIND I OAD

127. (#)= QUANTITY

125. W.P.= WORK POINT

123 W=

CONTINUOUS INSPECTIONS ARE REQUIRED FOR POST INSTALLED ANCHOR BOLTS INCLUDING TYPE, SIZE, LENGTH. DRILLING METHOD, HOLE CLEANING PROCEDURES, AND ANCHOR INSTALLATION AND SETTING PROCEDURES.

ADHESIVE ANCHORS SHALL BE INSTALLED BY AN ADHESIVE ANCHOR INSTALLER WHO HAS BEEN CERTIFIED BY ACI AND TRAINED BY THE

ANCHORS SHALL BE INSTALLED IN ACCORDANCE INSTRUCTIONS.

TO ACI 301. WHEN PLACING CONCRETE IN COLD WEATHER, REFER TO ACI 306.1. MANUFACTURER.

ELEMENTS OF SPECIAL STRUCTURAL WALLS

OF CONCRETE AND SHEAR REINFORCEMENT

c. SHEAR REINFORCEMENT.

d. OTHER REINFORCING STEEL

WITH THE MANUFACTURER'S PRINTED INSTALLATION

VERIFICATION AND INSPECTION CONTINUOUS | PERIODIC | STANDARD MATERIAL VERIFICATION OF COLD-FORMED STEEL DECK: A. IDENTIFICATION MARKINGS TO CONFORM APPLICABLE TO ASTM STANDARDS SPECIFIED IN THE ASTM MATERIAL APPROVED CONSTRUCTION DOCUMENTS. STANDARDS B. MANUFACTURER'S CERTIFIED TEST REPORTS INSPECTION OF WELDING: A. COLD-FORMED STEEL DECK: a. FLOOR AND ROOF DECK WELDS. AWS D1.3 Χ B. REINFORCING STEEL: a. VERIFICATION OF WELDABILITY OF REINF STEEL OTHER THAN ASTM A 706. REINFORCING STEEL RESISTING FLEXURAL AND AXIAL FORCES IN INTERMEDIATE AND AWS D1.4 SPECIAL MOMENT FRAMES, AND BOUNDARY ACI 318:

REQUIRED VERIFICATION AND INSPECTION OF STEEL CONSTRUCTION OTHER THAN STRUCTURAL STEEL

CONCRETE NOTES **GENERAL FOUNDATION & SLAB ON GRADE** NOTES (NO SPECS, NO GEOTECH) CONCRETE FOR FOUNDATIONS, FOOTINGS AND

INTERIOR SLABS ON GRADE SHALL BE AS FOLLOWS:

CONCRETE FOR EXTERIOR USES. SIDEWALKS.

SLABS ON GRADE SHALL BE AS FOLLOWS:

SLUMP:

SI UMP:

A615 GRADE 60

REINFORCING.

WITH ADHESIVES, ETC.

SHALL INCLUDE:

AIR CONTENT

SLUMP

ASTM C260.

SHALL BE AS FOLLOWS:

HORIZONTAL APPLICATIONS

AIR-ENTRAINMENT:

MAXIMUM WATER TO CEMENT RATIO: 0.52

RETAINING WALLS, BASEMENT WALLS, AND EXTERIOR

28-DAY COMPRESSIVE STRENGTH: 4000 PSI

MAXIMUM WATER TO CEMENT RATIO: 0.45

CONCRETE FOR ELEVATED SLABS ON METAL DECK

• 28-DAY COMPRESSIVE STRENGTH: 4000 PSI

MAXIMUM WATER TO CEMENT RATIO: 0.45

NO LIME SAND FINE AGGREGATE MAY BE USED IN

ALL REINFORCING STEEL SHALL CONFORM TO ASTM

A185. LAP FABRIC 9" ON SIDES AND ENDS. MAINTAIN

WELDED WIRE FABRIC SHALL CONFORM TO ASTM

WIRE 1" TO 2" BELOW TOP SURFACE OF SLABS ON

GRADE. PROVIDE CHAIRS, BOLSTERS OR OTHER

IF ADDITIONAL FLOWABILITY IS REQUIRED FOR

PLACEMENT OF ANY CONCRETE MIX, A WATER-

REDUCING ADDITIVE CONFORMING TO ASTM C494,

WATER MAY BE ADDED TO THE MIX AT THE SITE.

SLUMP FOR CONCRETE CONTAINING WATER-

IS ADDED TO CONCRETE WITH A 2"-4" SI UMP

REDUCING OR HIGH-RANGE WATER-REDUCING

TYPE A, D, E OR F SHALL BE USED. NO ADDITIONAL

ADMIXTURE SHALL NOT EXCEED 8" AFTER ADMIXTURE

INTERIOR SLABS SHALL HAVE SMOOTH TROWELED

FINISH AND EXTERIOR SLABS SHALL HAVE LIGHT

CURING COMPOUND COMPLYING WITH ASTM C309

APPLIED TO SURFACE. EXCEPTIONS ARE WHERE

FLOOR FINISHES REQUIRE SCRATCH FINISH AND

WHERE CURING COMPOUNDS ARE NOT COMPATIBLE

CONTRACTOR SHALL COORDINATE ALL CONCRETE

SEALERS, CURING COMPOUNDS, ETC TO ENSURE

COMPATIBILITY WITH FLOORING ADHESIVES FOR

FLOORING INDICATED IN THE FLOOR PLANS AND

TESTING OF FRESH CONCRETE SHALL BE DONE BY A

QUALIFIED TESTING LABORATORY RETAINED BY THE

OWNER AND APPROVED BY THE ENGINEER. TESTING

NOTE ANY WATER OR ADMIXTURES ADDED ON-

SLUMP AND ONE AIR CONTENT TEST FOR EACH DAYS

POUR AND ADDITIONAL TESTS WHEN THE CONCRETE

CONSISTENCY SEEMS TO HAVE CHANGED IN THE

C173 AND C231. PERFORM TEMPERATURE TESTS

ONE TEMPERATURE TEST FOR EACH SET OF

ASTM C1064 PERFORM ONE COMPRESSIVE-

THAN THE FIRST 25 CUBIC YARD. TEST ONE

CONCRETE FOR GROUTING MASONRY UNITS IS

PROVIDE CONTINUITY OF HORIZONTAL STEEL

AND ALL PERMANENT BRACING ELEMENTS ARE

CONSTRUCTION JOINTS IN SLABS ON GRADE AT

APPROXIMATELY 50 FEET IN EACH DIRECTION.

APPROXIMATELY 10 FEET ON CENTER IN EACH

PROVIDE CONTROL JOINTS IN SLABS ON GRADE AT

DIRECTION. JOINTS SHALL FORM NEARLY SQUARE

SHAPES. CONTRACTOR SHALL COORDINATE JOINT

WHERE DOWELS, BOLTS OR INSERTS ARE CALLED TO

CONCRETE ELEMENTS USING EPOXY ADHESIVES USE

INJECTION ADHESIVE. FOLLOW ALL MANUFACTURERS

ANCHORAGE SYSTEM FOLIAL TO "HILT!" HIT RE 500

LOCATIONS WITH TILE LAYOUT AS SHOWN IN THE

FLOOR PLANS AND FLOOR FINISH PLANS AS

BE ANCHORED TO CAST IN PLACE OR PRECAST

RECOMMENDATIONS. ALTERNATE ANCHORAGE

AS CONCRETE IS ABLE TO BE SAWN WITHOUT

SHALL NOT BE LEFT OVERNIGHT, OR ANY

PULLING OUT AGGREGATE FROM FLOOR. SLABS

SYSTEMS MAY BE USED WITH ENGINEER'S PRIOR

SAWN CONTROL JOINTS SHALL BE PLACED AS SOON

REASONABLE AMOUNT OF TIME, WITHOUT SAWING

REQUIRED TO PROVIDE JOINTS IN TIME TO PREVENT

SHRINKAGE CRACKING. PROPER JOINTING OF SLAB IS

CONCRETE REINFORCING STEEL SHALL MEET REQ. AS

SET FORTH BY CRSI AND THE AMERICAN CONCRETE

INSTITUTE AND THE APPLICABLE BUILDING CODE. SHOP DRAWINGS SHALL BE SUBMITTED INDICATING

CONSTRUCTION OF THE REINFORCED CONCRETE

REINFORCEMENT DETAILS, CONNECTION DETAILS,

WHEN PLACING CONCRETE IN HOT WEATHER, REFER

SECTION 3.5.2

ELEMENTS. SHOP DRAWINGS SHALL INCLUDE

LAYOUT AND DIMENSIONS OF REINFORCING

INCLUDING ANY OPENINGS, CONVENTIONAL

PROCEDURES AND SEQUENCES ETC.

JOINTS. WEATHER IS CRITICAL TO SCHEDULE OF

SAWN JOINTS. IF LARGE AREAS OF SLAB ARE

POURED AT ONE TIME, SEVERAL SAWS MAY BE

CRITICAL. REFER TO ACI MANUAL OF CONCRETE

PRACTICE FOR PROPER JOINTING TECHNIQUES.

DETAILING, MATERIALS AND INSTALLATION OF

COMPLETE INFORMATION REQUIRED FOR

. UNLESS NOTED OTHERWISE, PROVIDE

PROVIDE A MINIMUM OF 3" COVER FOR ANCHOR

BOLTS AND LOCATE HORIZONTAL REINFORCEMENT

TO THE OUTSIDE FOR ANCHOR BOLT CONTAINMENT,

PROVIDE TEMPORARY SHORING AND BRACING OF ALL

STRUCTURAL AND MISCELLANEOUS ELEMENTS UNTIL

CONCRETE HAS OBTAINED 80% OF DESIGN STRENGTH

SPECIFIED IN CONCRETE MASONRY UNIT NOTES

WHERE FOOTINGS, WALLS, OR OTHER STRUCTURA

CORNER BARS WITH REQUIRED LAP LENGTHS TO

ELEMENTS INTERSECT, CORNER OR TEE, PROVIDE

REFER TO ASTM C31 AND C39.

REINFORCING UNO.

APPLICABLE.

APPROVAL.

OPINION OF THE INSPECTOR. REFER TO ASTM C143,

HOURLY WHEN THE AMBIENT AIR TEMPERATURE IS

COMPRESSIVE-STRENGTH SPECIMENS REFER TO

ADDITIONAL TEST FOR EACH 50 CUBIC YARD MORE

SPECIMEN AT 7 DAYS AND 2 SPECIMENS AT 28 DAYS.

STRENGTH TEST FOR EACH DAYS POUR AND AN

BELOW 40 DEGREES F OR ABOVE 80 DEGREES F AND

FLOOR FINISH PLANS AS APPLICABLE.

CONCRETE TEMPERATURE

28 DAY COMPRESSIVE STRENGTH

REFER TO ASTM C172 AND C94. PERFORM ONE

BROOM FINISH, UNO. ALL SLABS SHALL HAVE A

APPROVED MEANS TO PROPERLY LOCATE

CONCRETE EXPOSED TO WEATHER, VIEW, OR IN

AIR-ENTRAINING ADMIXTURE SHALL CONFORM TO

28-DAY COMPRESSIVE STRENGTH: 3000 PSI

IN AREA OF THE STRUCTURE, EXISTING ORGANIC MATERIAL, UNSUITABLE SOIL, ABANDONED FOOTINGS AND ANY OTHER EXISTING UNSUITABLE MATERIALS SHALL BE REMOVED. ANY FILL MATERIAL REQUIRED AT THE SITE SHALL BE OF A SIMILAR TYPE SOIL THAT IS PRESENT AT THIS SITE EXHIBITING LIQUID LIMIT VALUES BELOW 50 AND PLASTIC INDEX VALUES BELOW 10. ROCKS GREATER THAN 6 IN. SHALL BE EXCLUDED FROM STRUCTURAL FILL LIFTS. FILL MATERIAL SHALL BE PLACED IN LOOSE LIFTS NO GREATER THAN 8 INCHES IN DEPTH AND SHALL BE COMPACTED TO 95% OF MAXIMUM DENSITY BASED ON STANDARD PROCTOR DENSITIES (ASTM D-698). ADEQUATE FIELD DENSITY AND MOISTURE CONTENT TESTS SHALL BE PERFORMED TO ENSURE COMPLIANCE

WITH REQUIREMENTS. TESTING OF CONTROLLED STRUCTURAL FILL SHALL BE DONE BY A QUALIFIED TESTING LABORATORY RETAINED BY THE OWNER. SEE STRUCTURAL

DRAWINGS FOR REQUIRED TESTING. CONTRACTOR IS RESPONSIBLE FOR COORDINATING WORK WITH INSPECTOR AFTER STRIPPING SITE AND PRIOR TO

PLACEMENT OF ANY FILL, NOTIFY SPECIAL INSPECTOR/TESTING AGENCY FOR INSPECTION OF SOIL CONDITIONS. INSPECTION SHALL INCLUDE PROOF ROLLING SITE WITH HEAVY EQUIPMENT PROVIDED BY THE CONTRACTOR. AFTER EXCAVATION FOR FOUNDATIONS AND PRIOR TO PLACEMENT OF STEEL REINFORCEMENT OR CONCRETE, NOTIFY

SPECIAL INSPECTOR/TESTING AGENCY FOR INSPECTION OF SOIL CONDITIONS. WHEN SOIL OF INADEQUATE STRENGTH IS NOTED. CONTRACTOR SHALL FURTHER DEEPEN **EXCAVATIONS UNTIL SUITABLE BEARING** CONDITIONS ARE VERIFIED BY TESTING OVEREXCAVATIONS MAY BE BACKFILLED WITH SUITABLE COMPACTED ENGINEERED FILL, SUITABLE GRANULAR BASE, OR STRUCTURAL CONCRETE BACKFILL.

EXTERIOR FOOTINGS SHALL BEAR AT MIN. DEPTHS AS NOTED IN FOOTING SECTIONS AND PLANS, 30" BELOW EXTERIOR FINISH GRADE, OR INTO APPROVED BEARING STRATA, WHICHEVER DEPTH IS GREATER. NOTE THAT FOOTING BEARING ELEVATIONS GIVEN ON THE PLANS ARE ESTIMATED DEPTHS ONLY. WHERE UNSUITABLE SOIL IS **ENCOUNTERED. FOOTING DEPTHS MAY VARY EXCAVATION FOR FOOTINGS SHALL BE CUT TO**

ACCURATE SIZE AND DIMENSIONS AS SHOWN ON PLANS ALL SOIL BELOW SLABS AND FOOTINGS SHALL BE PROPERLY COMPACTED AND SUBGRADE BROUGHT TO A REASONABLE TRUE AND LEVEL PLANE BEFORE PLACING CONCRETE CONTINUOUS FOOTINGS AND INDIVIDUAL FOOTINGS ARE DESIGNED FOR A NET ALLOWABLE SOIL

BEARING OF CONTINUOUS FOOTINGS: 1500 PSF INDIVIDUAL FOOTINGS: 1500 PSF FOR EITHER NATURALLY OCCURRING SOIL OR

COMPACTED ENGINEERED FILL. TYPICAL SLABS ON GRADE THICKNESS: 4" THICK NORMAL WEIGHT CONCRETE

REINFORCING: 6x6-W1.4xW1.4 WELDED WIRE FABRIC (WWF) VAPOR BARRIER: 15 MIL., (ASTM E1745 CLASS A) SUBGRADE: A MINIMUM OF 4" OF FREE-DRAINING GRANULAR BASE, COMPACTED PER RECOMMENDATIONS OF GEOTECHNICAL

FNGINFFR MAINTAIN REINFORCING 1"-2" BELOW TOP SURFACE OF SLABS ON GRADE. PROVIDE BOLSTERS, CHAIRS OR OTHER MEANS APPROVED IN WRITING BY THE ENGINEER TO PROPERLY LOCATE REINFORCING. GRANULAR BASE SHALL BE #57 STONE OR APPROVED **EQUAL UNLESS OTHERWISE INDICATED IN** GEOTECHNICAL REPORT. REFER TO ASTM

D448 FOR GRADATION. IN SOME CASES 1.5 POUNDS (MIN) OF POLYPROPYLENE FIBRILLATED FIBERS PER CUBIC YARD REINFORCING MAY BE SUBSTITUTED FOR THE WWF REINFORCING ANY VISIBLE FIBERS REMAINING AFTER CONCRETE HAS CURED SHALL BE TORCHED OFF THIS SUBSTITUTION IS NOT ALWAYS APPROPRIATE AND SHALL NOT BE MADE WITHOUT WRITTEN APPROVAL OF THE

DRAINAGE FILL SHALL BE A FREE-DRAINING GRANULAR MATERIAL. USE #57 STONE OR EQUAL. REFER TO ASTM D448 FOR GRADATION.

CONTRACTOR IS RESPONSIBLE TO MAINTAIN EXCAVATIONS AND BACKFILL MATERIALS AT AN APPROPRIATE MOISTURE CONTENT FOR PROPER SOIL BEARING CAPACITY AND COMPACTION. CONTRACTOR SHALL COORDINATE WITH THE CIVIL SITE DRAWINGS TO DETERMINE WHETHER FOUNDATION DRAINS AROUND PERIMETER OF

BUILDING AND/OR UNDER THE SLAB-ON-GRADE SHALL BE REQUIRED AND. IF SO, SHALL RUN TO DAYLIGHT OR EXTENDED TO THE STORM SEWER AT RETAINING WALLS FILTER FABRIC SHALL BE PLACED AT THE INTERFACE BETWEEN THE DRAINAGE FILL AND EITHER NATURAL OR COMPACTED SUBGRADE. PERFORATED DRAINS SHALL ALSO BE WRAPPED WITH FILTER FABRIC.

COMPONENTS AND CLADDING WIND PRESSURE

BUILDING ELEMENTS SHALL BE DESIGNED FOR THE APPROPRIATE COMPONENTS AND CLADDING WIND PRESSURES GIVEN IN THE TABLES BELOW BASED ON THE ELEMENT'S ZONE AND EFFECTIVE WIND AREA. PRESSURES PROVIDED ARE ULTIMATE AND

ZONE 2, 3 AND 5 PRESSURES SHALL BE APPLIED WITHIN 11'-6" OF ALL WALL AND ROOF EDGES AND CORNERS PER ASCE 7-10 FIGURES 30.4-1 & 30.4-2A.

ELEMENTS WITH TRIBUTARY AREAS GREATER THAN 700 SQUARE FEET SHALL BE PERMITTED TO BE DESIGNED USING THE PROVISIONS FOR MWFRS.

ROOF	ROOF C&C PRESSURES							
	GROSS UF	PLIFT						
OPEN WEB	ZONE 1	27 PSF						
JOISTS	ZONE 2	32 PSF						
	ZONE 3	32 PSF						
METAL DECK	ZONE 1	29 PSF						
METAL DECK	ZONE 2	49 PSF						
	ZONE 3	73 PSF						
	NET UPL	IFT						
0051111150	ZONE 1	24 PSF						
OPEN WEB	ZONE 2	29 PSF						
JOISTS	ZONE 3	29 PSF						
METAL DEOK	ZONE 1	27 PSF						
METAL DECK	ZONE 2	47 PSF						
	ZONE 3	71 PSF						
Ι \Λ/ΔΙΙ	C&C PRI	ESSURES						

WALL C&C PRESSURES								
EFFECTIVE WIND AREA (FT²)	ZONE 4 NEG. PRESSURE	ZONE 5 NEG. PRESSURE						
10	41 PSF	50 PSF						
20	39 PSF	47 PSF						
50	37 PSF	42 PSF						
100	34 PSF	39 PSF						
500+	31 PSF	31 PSF						

WOOD SHEATHING & DECKING NOTES ANCHORED TO LIGHT GAUGE

ISOMETRIC VIEW BACK SIDE (MODULAR BUILDING)

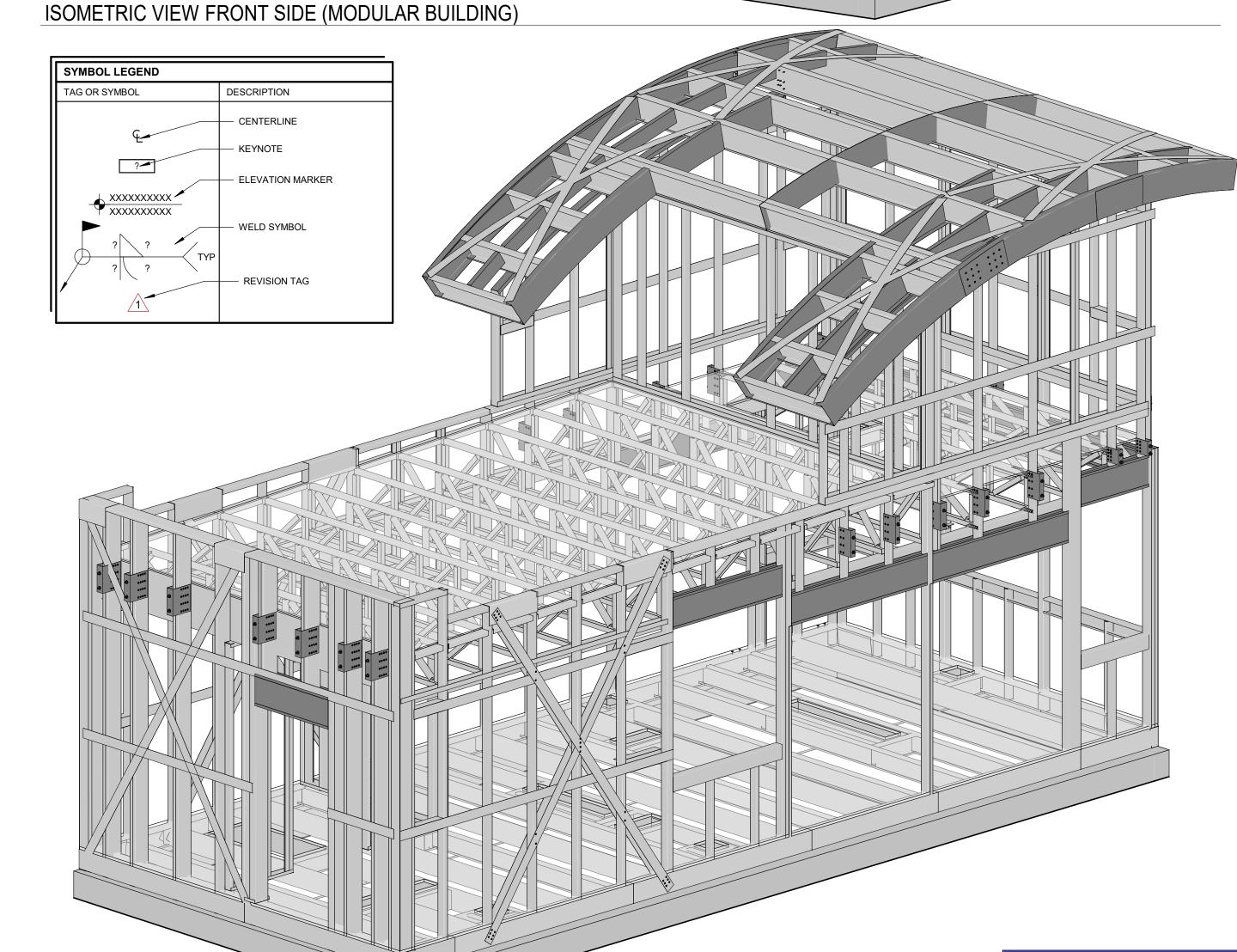
TYPICAL WALL SHEATHING SHALL BE 7/16" (1/2") APA RATED 24/16 STRUCTURAL 1 EXPOSURE 1 PANÉLS. SCREW TO SUPPORTS WITH #8 PAN HEAD TEK SCREWS AT 6" O.C. AT PANEL EDGES AND 12" O.C. AT INTERMEDIATE SUPPORTS. PROVIDE LIGHT GAUGE BLOCKING AT ALL PANEL EDGES. SEE SHEAR WALL SCHEDULE FOR REQUIREMENTS AT SHEAR WALLS. ROOF DECKING SHALL BE 19/32" (5/8") STRUCTURAL EXPOSURE I APA RATED 40/20 TONGUE AND GROOVE PANELS. "H" CLIPS MAY BE USED AT THE CONTRACTOR'S OPTION IN LIEU OF T&G. SCREW TO SUPPORTS WITH #8 PAN HEAD TEK SCREWS AT 6" O.C. AT PANEL EDGES AND 12" O.C. AT INTERIOR

SUPPORTS. REDUCE SPACING TO 4" O.C. AT EDGES AND INTERIOR SUPPORTS WITHIN 4'-0" OF BUILDING FLOOR DECKING SHALL BE 23/32" (3/4") ADVANTECH PANELS T&G. GLUE AND SCREW TO SUPPORTS WITH

#8 PAN HEAD TEK SCREWS AT 6" O.C. AT PANEL EDGES AND 12" O.C. AT INTERMEDIATE SUPPORTS. GLUE SHALL MEET APA SPEC AFG-01 WOOD STRUCTURAL PANELS SHALL BE OSB OR PI YWOOD WITH (4) OR MORE PLIES AND SHALL

COMPLY WITH DOC PS 1 OR PS 2. PANELS SHALL BE INSTALLED WITH THE STRENGTH AXIS (LONG DIRECTION) PERPENDICULAR TO

ISOMETRIC VIEWS FOR REFERENCE ONLY



BUILDING SUPPLIER / ERECTOR

CREATIVE MODULAR CONSTRUCTION

NUMBER E-29518

ENGINEER OF RECORD: JOHN C. MILLER

E-2011011004 PROJECT NUMBER: 22033 7BLS

E-29518

REVISION:

DATE: 04/22/2022

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J&M ENGINEERING, LL0

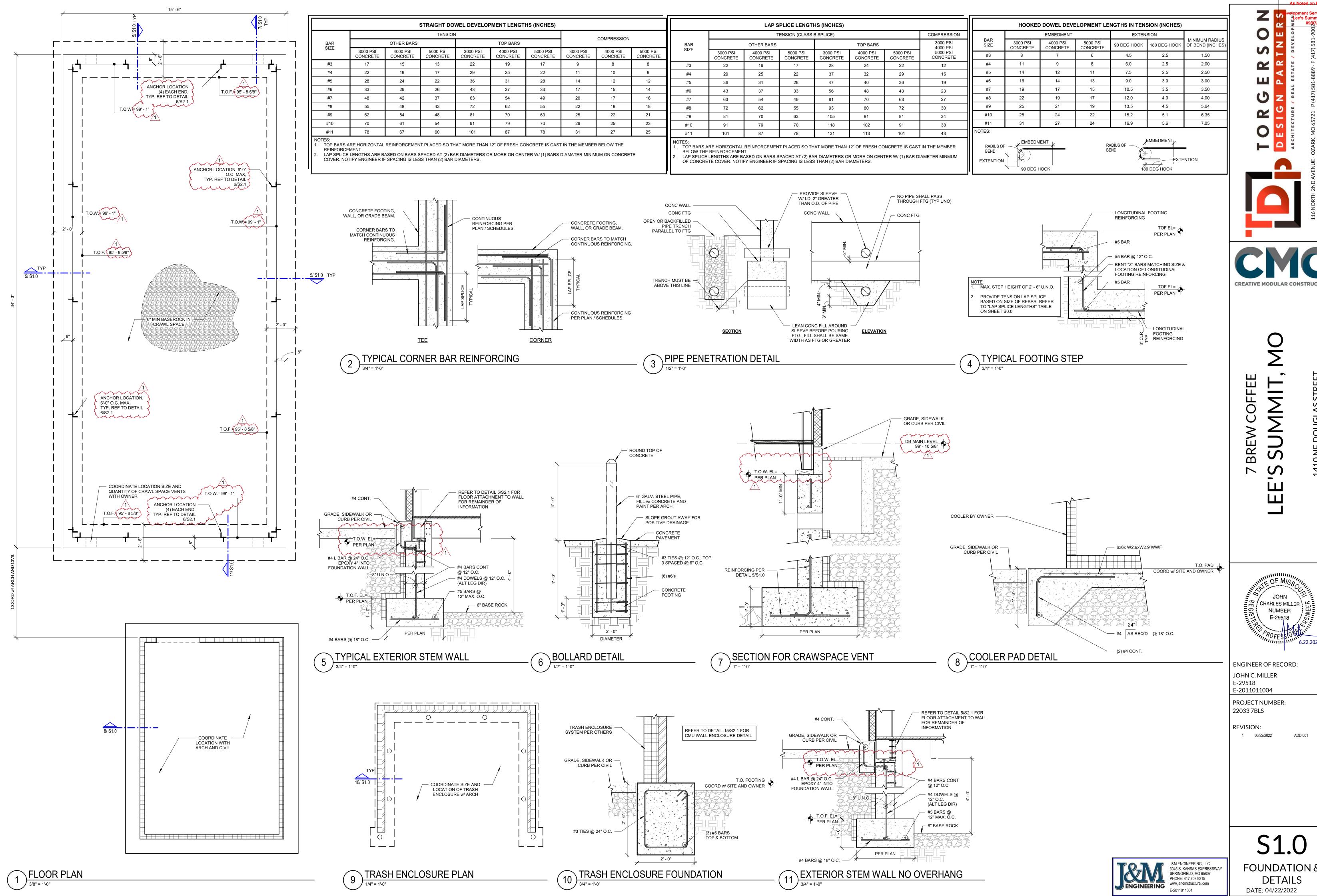
3045 S. KANSAS EXPRES

SPRINGFIELD, MO 65807

PHONE: 417.708.9315 www.iandmstructural.cor

SCHEDULE - SPECIAL INSPECTIONS

GENERAL NOTES



CONSTRUCTION
As Noted on Plans Review

CREATIVE MODULAR CONSTRUCTION

FOUNDATION &

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KEYNOTE LEGEND MECHANICAL EQUIPMENT WEIGHTS AND LOCATIONS ARE ESTIMATED ONLY. COORDINATE ALL RTU EQUIPMENT LOCATIONS AND CURBS WITH

12 GA CLIP.

12" x 2 1/2" 14 GA ROOF JOIST SPACED @ 24" O.C. MAX.

PROVIDE FLOOR JOIST BOX FRAME AT ALL OPENINGS, MATCH GA OF FLOOR JOIST. ENGINEERING.

18 1/8" x 2 1/2" 14 GA JOIST, @ ROOF DECK BEARING.
ALL EXACT MEMBER SIZES PER MODULAR BUILDING SUPPLIERS HEADER PER MODULAR BUILDING SUPPLIERS ENGINEERING.

THESE DRAWINGS INDICATE THE GENERAL REQUIREMENTS FOR A CUSTOM FABRICATED STRUCTURAL SYSTEM, BY CREATIVE MODULAR CONSTRUCTION

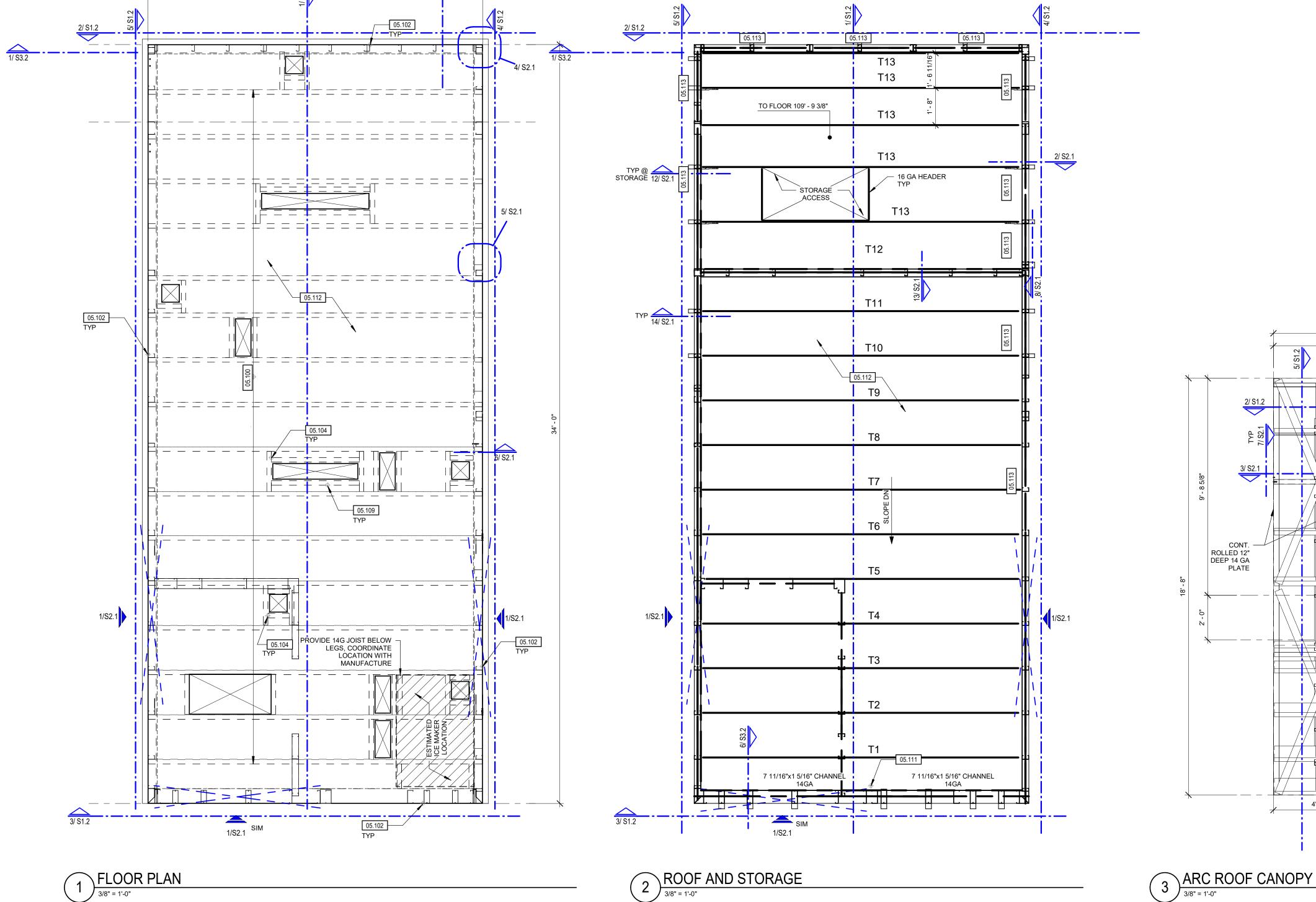
PLAN NOTES - FRAMING

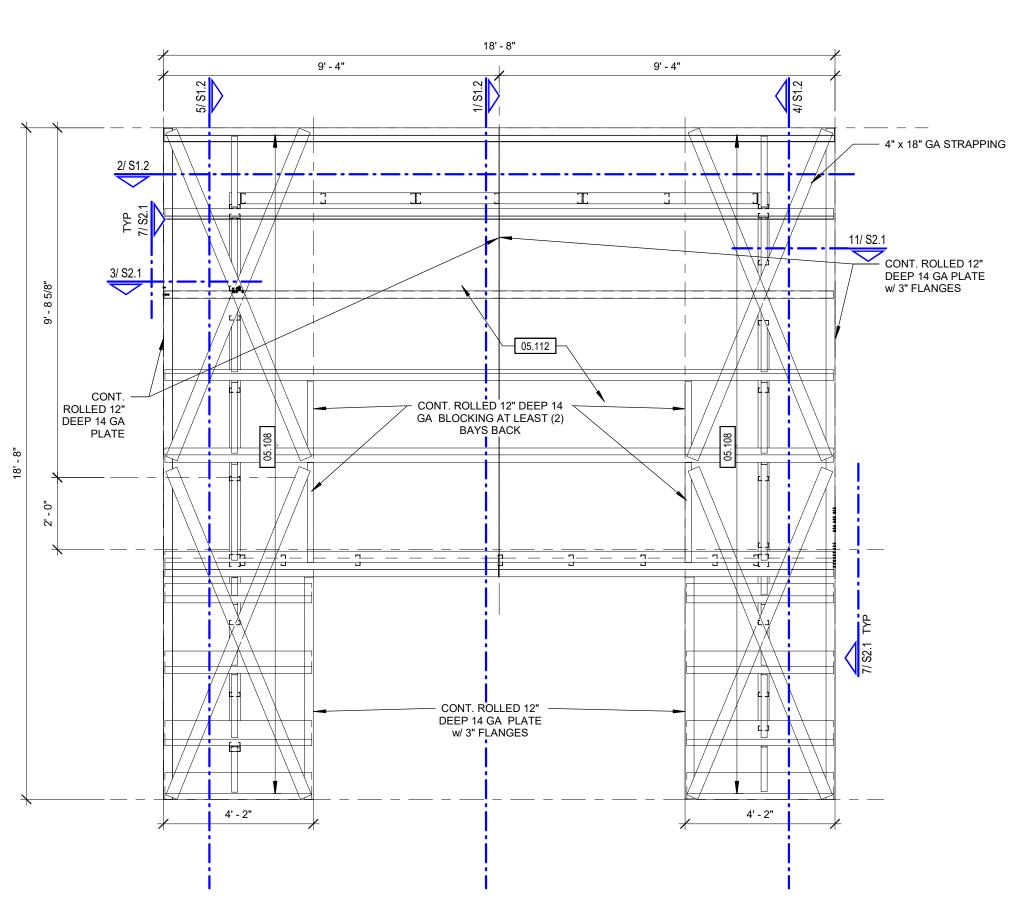
MEP AND ARCH.

COORDINATE ROOF OPENINGS WITH MEP AND ARCH. PROVIDE SUPPLEMENTAL FRAMING PER NOTES AND DETAILS AT OPENINGS.

MECHANICAL HANGERS AND OTHER ITEMS SUPPORTED FROM TRUSS FRAMING ARE TO BE SUPPORTED AT PANEL POINTS ONLY.

PROVIDE (2) 3/4" BOLTS AT EACH LIFTING POINT LOCATION.





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S1.1 FRAMING PLANS

DATE: 04/22/2022

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3045 S. KANSAS EXPRESSWA SPRINGFIELD, MO 65807

CONSTRUCTION
As Noted on Plans Review

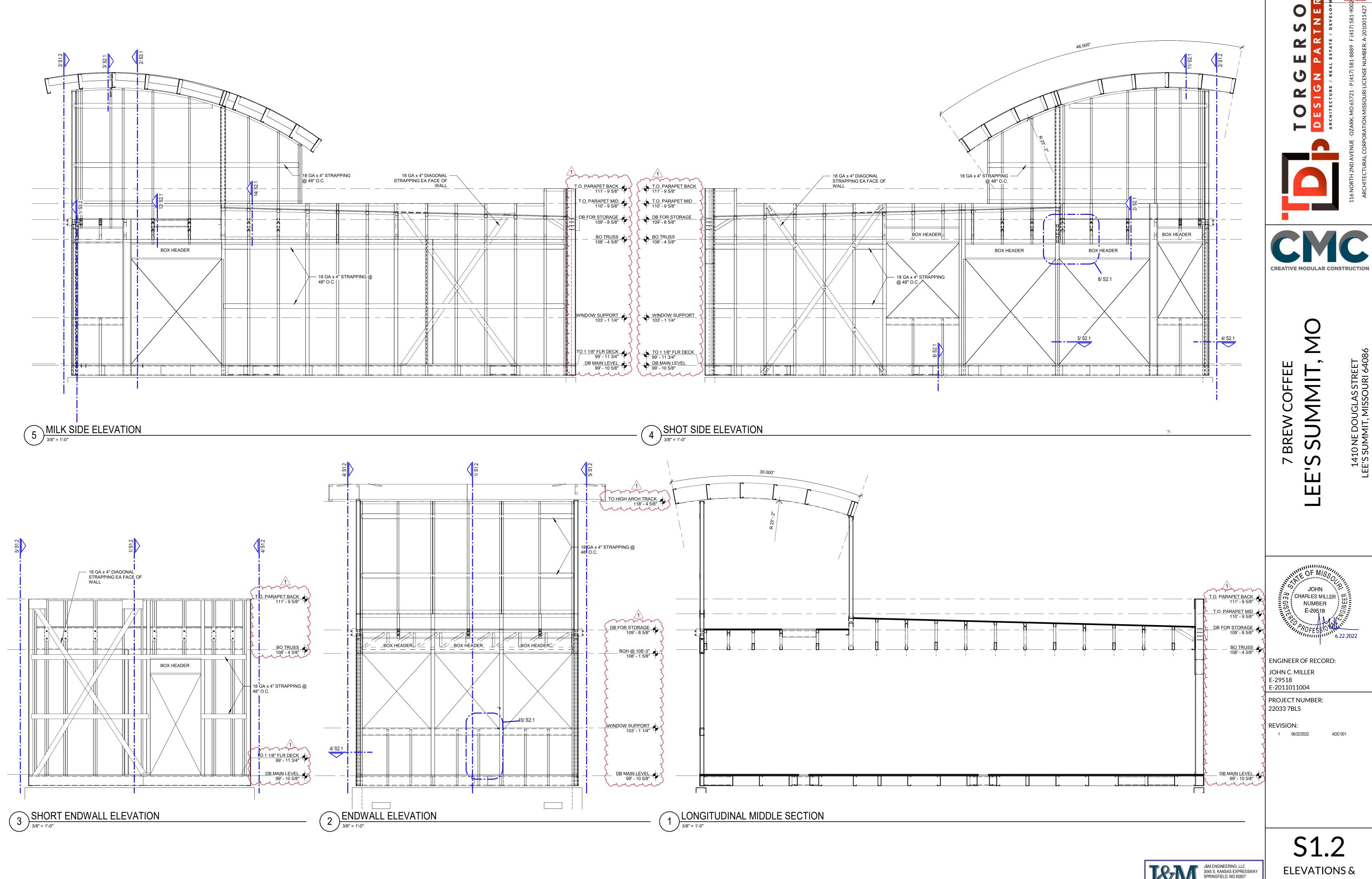
CHARLES MILLER NUMBER E-29518

ENGINEER OF RECORD: JOHN C. MILLER

E-29518 E-2011011004 PROJECT NUMBER:

22033 7BLS

REVISION:



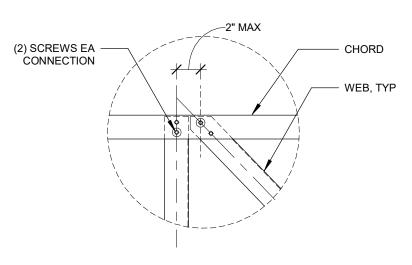
J&M ENGINEERING, LLC 3045 S. KANSAS EXPRESSWAY SPRINGFIELD, MO 65807 PHONE: 417.708.9315 www.jandmstructural.com SECTIONS DATE: 04/22/2022 E-2011011004

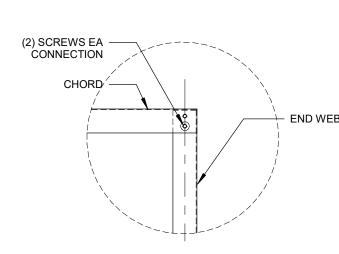
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RELEASED FOR
CONSTRUCTION
As Noted on Plans Review

TRUSS	DEPTH	WEB WIDTH	LENGTH	CHORD GAUGE
T1	18 9/16"	2.5"	14' - 4 5/8"	14
T2	19 3/16"	2.5"	14' - 4 5/8"	14
T3	19 13/16"	2.5"	14' - 4 5/8"	14
T4	20 7/16"	2.5"	14' - 4 5/8"	14
T5	21 1/16"	2.5"	14' - 4 5/8"	14
T6	21 11/16"	2.5"	14' - 4 5/8"	14
T7	22 5/16"	2.5"	14' - 4 5/8"	14
T8	22 15/16"	2.5"	14' - 4 5/8"	14
T9	23 1/2"	2.5"	14' - 4 5/8"	14
T10	24 1/8"	2.5"	14' - 4 5/8"	14
T11	24 3/4"	2.5"	14' - 4 5/8"	14
T12	25 3/8"	3.5"	14' - 4 5/8"	14
T13	16"	2.5"	14' - 11 3/4"	14

1 TYPICAL LONG TRUSS ELEVATION

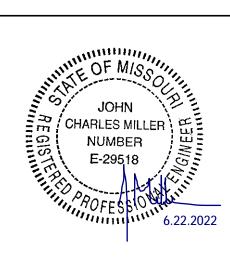




2 TYPICAL TRUSS MEMBER CONNECTION
1 1/2" = 1'-0"

3 TYPICAL TRUSS END MEMBER CONNECTION
1 1/2" = 1'-0"

RELEASED FOR CONSTRUCTION
As Noted on Plans Review



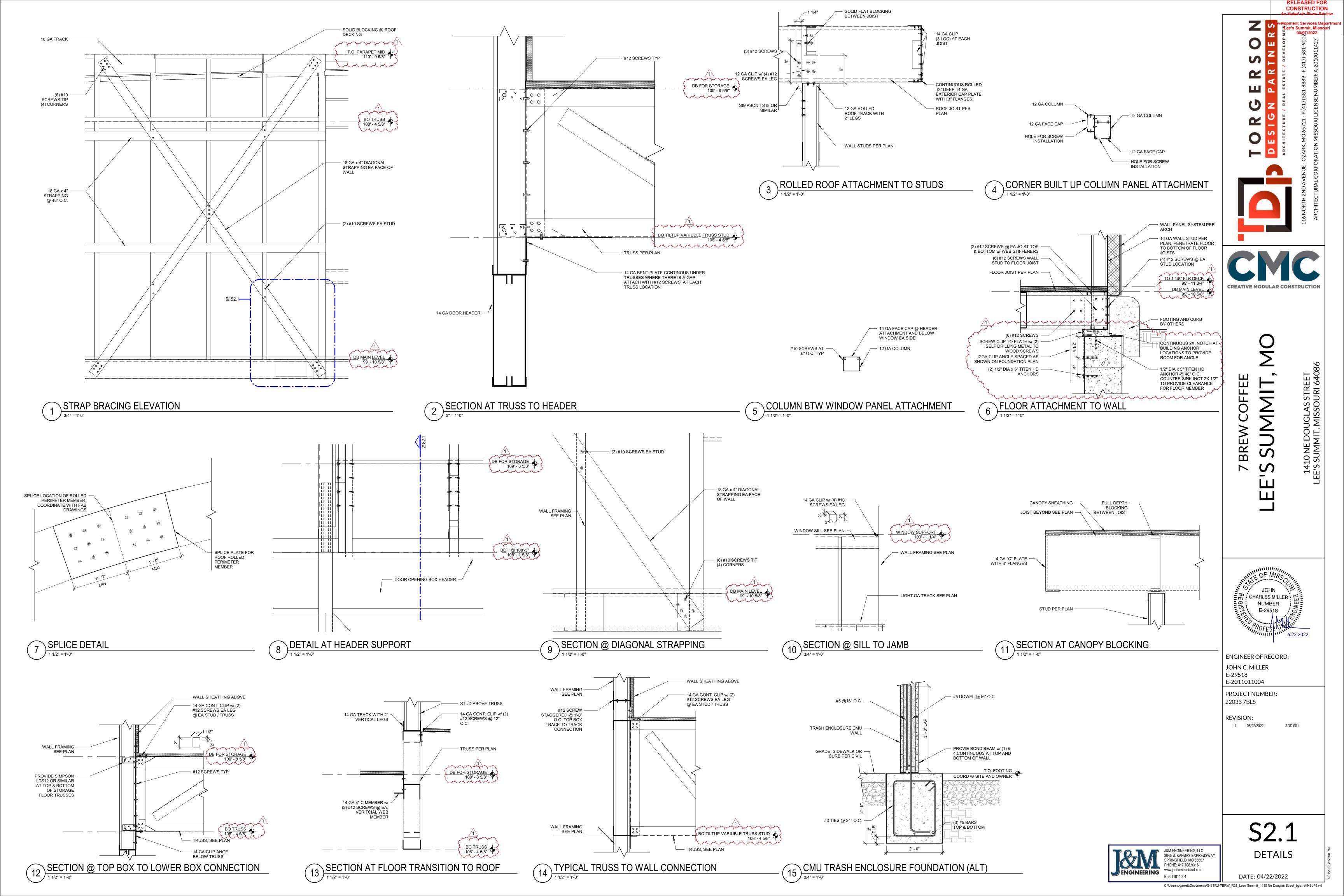
ENGINEER OF RECORD: JOHN C. MILLER E-29518 E-2011011004

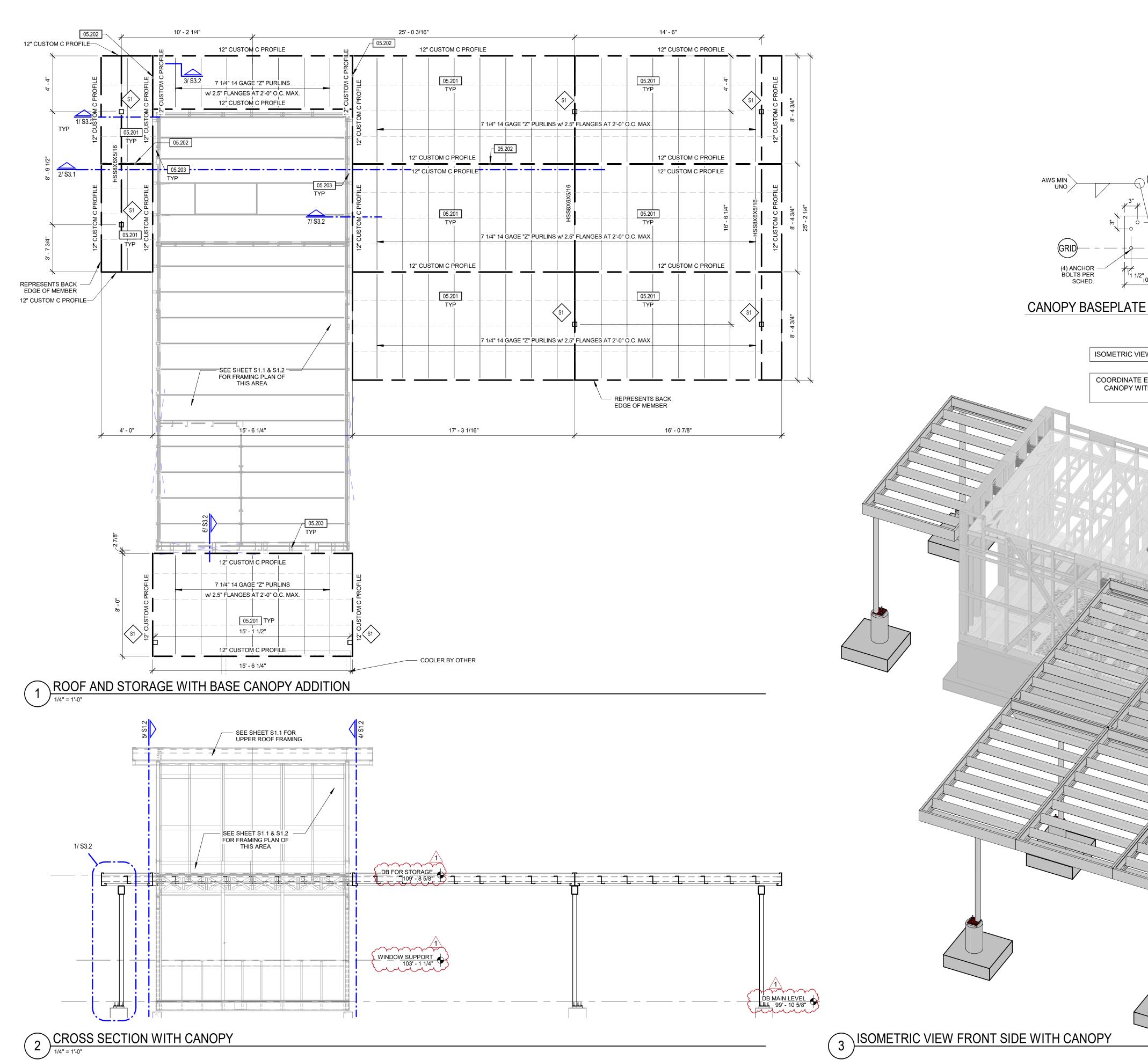
PROJECT NUMBER: 22033 7BLS

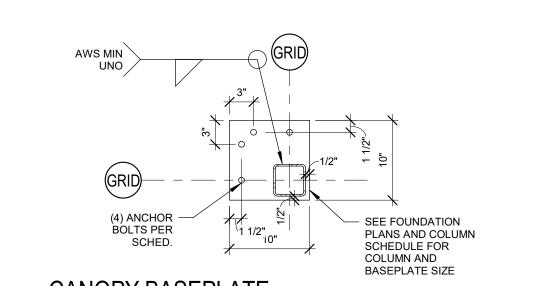
REVISION:

J&M ENGINEERING, LLC
3045 S. KANSAS EXPRESSWAY
SPRINGFIELD, MO 65807
PHONE: 417.708.9315
www.jandmstructural.com
E-2011011004 C:\Users\bgarrett\Documents\S-STRU-7BRW_R21_Lees Summit_1410 Ne Douglas Street_bgarrettNSLP3.rvt

S1.3 TRUSS SHEET

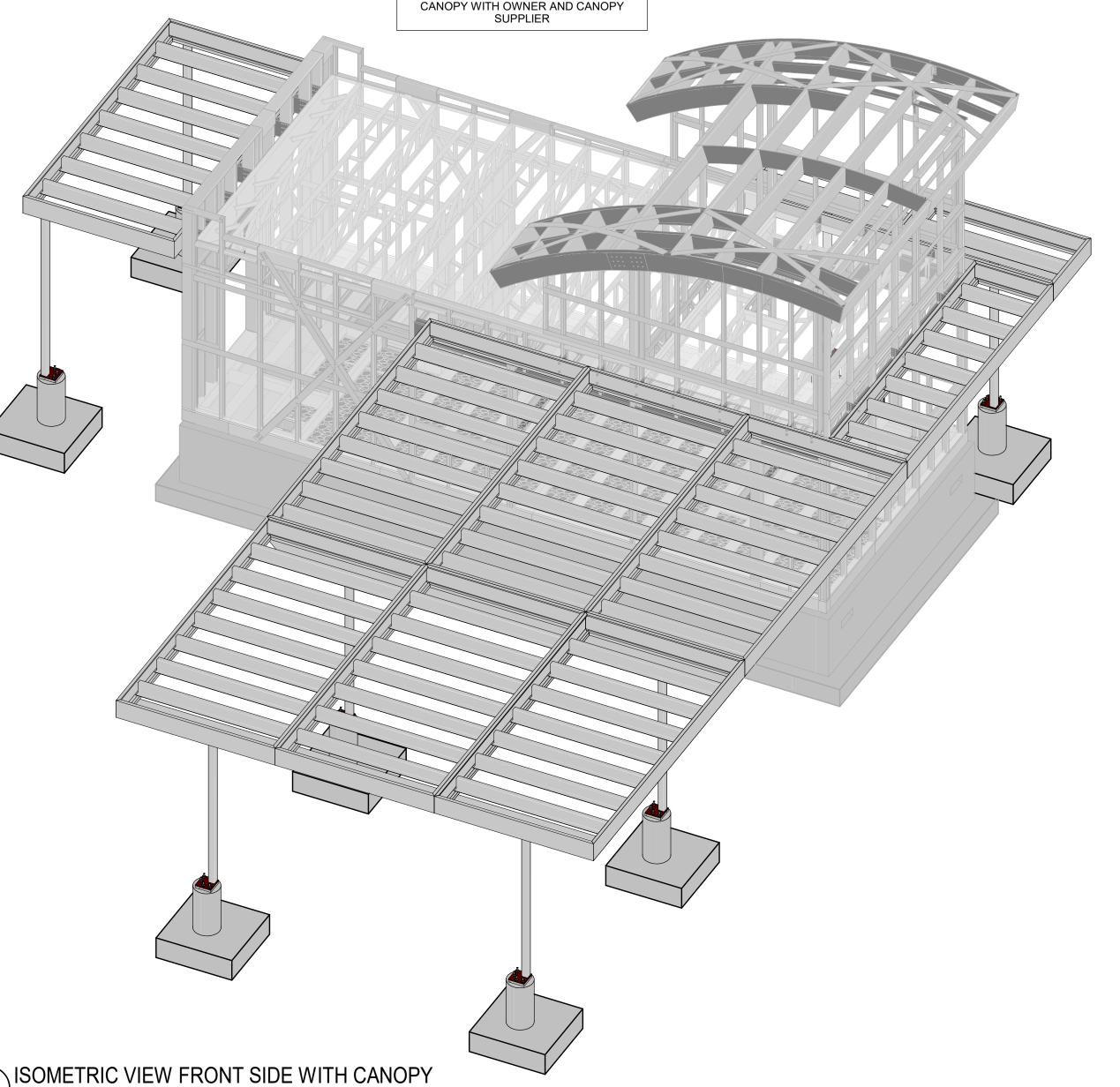






ISOMETRIC VIEWS FOR REFERENCE ONLY

COORDINATE EXACT SIZE AND SHAPE OF CANOPY WITH OWNER AND CANOPY SUPPLIER



KEYNOTE LEGEND

| DESCRIPTION | 05.201 | PROVIDE STRAP BRIDGING @ 24" O.C. w/ BLOCKING PIECES EACH END. | 05.202 | PLACE "C" PROFILE BACK TO BACK, ATTACH w/ (3) SCREWS AT 12" MAX. ON CENTER. | O5.203 | ANCHOR CHANNEL TO WALL w/ (4) #12 GALV. TEK SCREWS @ EACH STUD. |

COLUMN SCHEDULE TYPE MARK COLUMN SIZE S1 HSS4X4X1/4 BASE PLATE TYPE & SIZE ANCHOR BOLT SIZE NOTES (4) 3/4" DIA w/ 18" EMBEDMENT 5/8"x10" SQ

CREATIVE MODULAR CONSTRUCTION

RELEASED FOR CONSTRUCTION
As Noted on Plans Review

ENGINEER OF RECORD:

JOHN C. MILLER E-29518 E-2011011004

PROJECT NUMBER: 22033 7BLS

REVISION:

1 06/22/2022

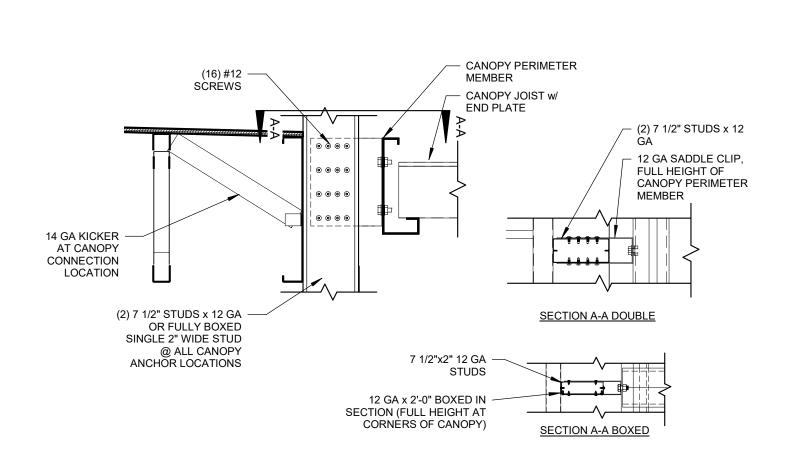
J&M ENGINEERING, LLC 3045 S. KANSAS EXPRESSWAY SPRINGFIELD, MO 65807 PHONE: 417.708.9315

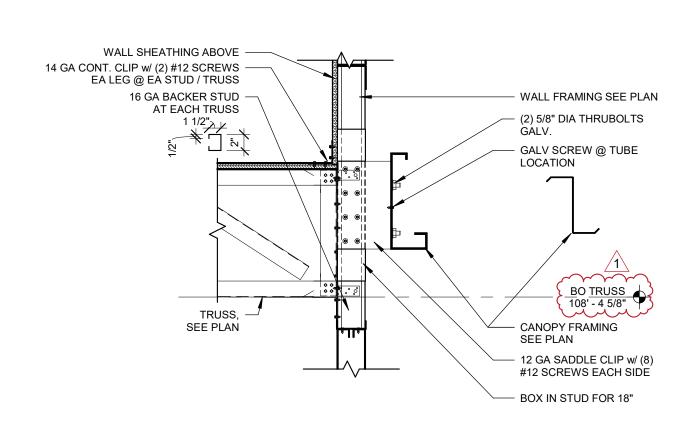
S3.1 **DRIVE THRU** CANOPY

3 "Z" PURLIN ATTACHMENT

DETAIL AT CORNER

1 1/2" = 1'-0"





6 BACK CANOPY CONNECTION

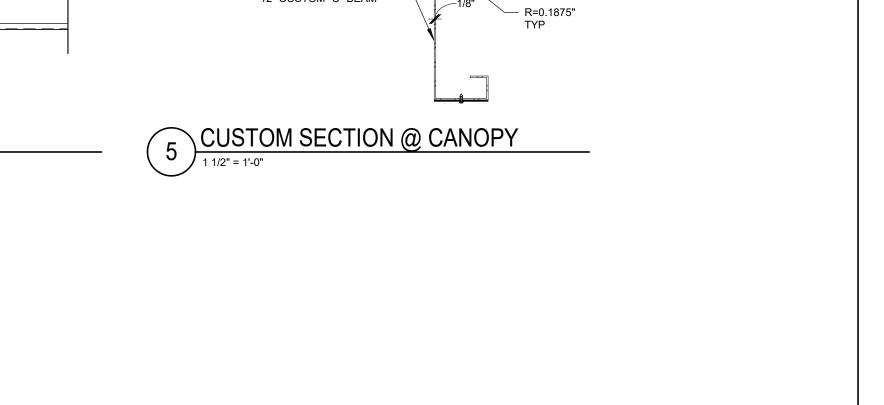
SLAB ON GRADE OR PAVING PER

OTHERS

SECTION AT COLUMN

7 SECTION @ LOW CANOPY

SECTION AT COLUMN CAP



J&M ENGINEERING, LLC 3045 S. KANSAS EXPRESSW SPRINGFIELD, MO 65807 PHONE: 417.708.9315 www.jandmstructural.com E-2011011004

S3.2

JOHN

CHARLES MILLER
NUMBER
E-29518

ENGINEER OF RECORD:

JOHN C. MILLER

PROJECT NUMBER:

1 06/22/2022

ADD 001

E-29518 E-2011011004

22033 7BLS

REVISION:

CONSTRUCTION As Noted on Plans Review

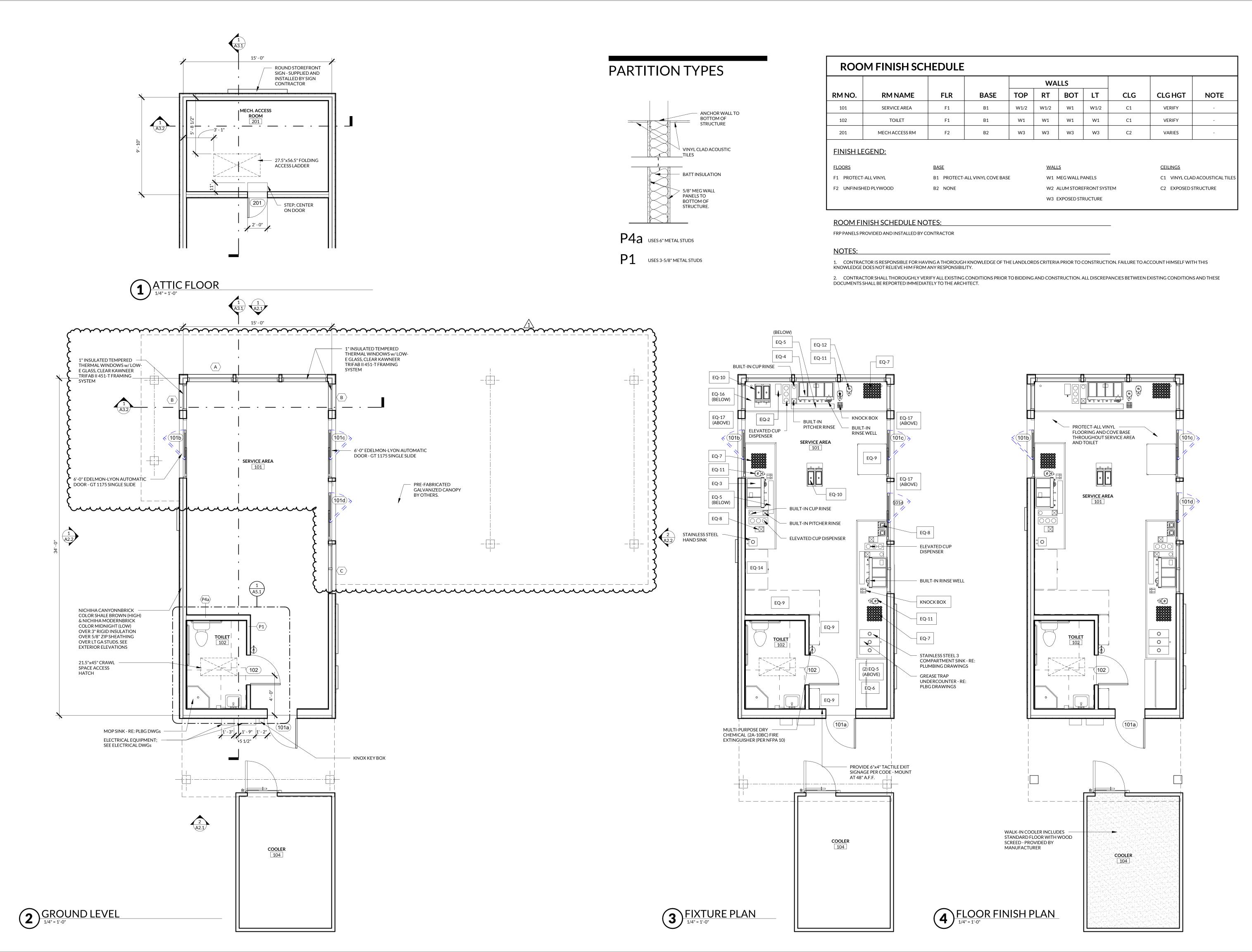
10 NE DOUGLAS STREET SUMMIT, MISSOURI 6408

BREW

DATE: 04/22/2022

C:\Users\bgarrett\Documents\S-STRU-7BRW_R21_Lees Summit_1410 Ne Douglas Street_bgarrettNSLP3.rvt

CANOPY DETAILS





7 BREW COFFEE

'S SUMMIT, M

ADAM

JOSEPH KREHER

NUMBER

A-2011042164

ARCHITEC 06/17/2022

ARCHITECT OF RECORD:

NAME: ADAM KREHER

LICENSE NO. 2011002764

PROJECT NUMBER: 22033 7BLS

REVISION: 1 ADD 001 6/17/22

A1.1
FLOOR PLANS

EGRESS LOADING INFORMATION

OCCUPANCY LOADING CALCULATIONS PER IBC 2018: TABLE 1004.1.2

KITCHENS: 200 S.F. PER OCCUPANT
STORAGE: 300 S.F. PER OCCUPANT

ROOM OCCUPANCY CALCULATION OCUPPANTS

101 SERVICE AREA KITCHEN 468 SF/200 SF 3
104 COOLER STORAGE 124 SF/300 SF 1
201 MECH. ACCESS STORAGE 131 SF/300 SF 1
EQUIPMENT STORAGE 131 SF/300 SF 1
EGRESS WIDTH REQUIRED: 5 OCCUPANTS X 0.2" PER OCCUPANT REQUIRED = 1.0"
EGRESS WIDTH PROVIDED: 36"
EGRESS WIDTH OF 0.2" PER OCCUPANT USED FOR DOORS PER IBC TABLE 1005.

NUMBER OF EXITS REQUIRED:
(1) EXIT REQUIRED FOR PER STORY FOR LESS THAN 49 OCCUPANTS PER IBC TABLE 1006.2.1.
(1) EXIT PROVIDED.

MAXIMUM TRAVEL DISTANCE: 200'-0" PER IBC TABLE 1017.2 ACTUAL MAX TRAVEL DISTANCE TO EXIT: 32'-0"

20'-0" MAX LENGTH OF DEAD END CORRIDOR PER IBC SECTION 1018

RESTROOM LOADING

OCCUPANCY: 5 OCCUPANTS

TUB/ SHOWERS:

SINKS PROVIDED:

RESTROOM FIXTURES REQUIRED/PROVIDED • USE GROUP: BUSINESS

TOILET COUNT:

= 1 PER 25 FOR THE FIRST 50 AND 1 PER 50 FOR THE REMAINDER EXCEEDING 50

LAVATORY COUNT:

= 1 PER 40 FOR THE FIRST 80 AND 1 PER 80 FOR THE REMAINDER EXCEEDING 80

DRINKING FOUNTAINS: = 1 PER 100

OTHER: = 1 SERVICE SINK

PLUMBING FIXTURE COUNT PER IBC TABLE 2902.1

TOILET COUNT:

WATER CLOSETS REQUIRED: 5 OCCUPANTS / 25

WATER CLOSETS PROVIDED:

LAVATORY COUNT:

SINKS REQUIRED: 5 OCCUPANTS / 40

= 1 REQUIRED = 1 PROVIDED PANTS / 100 = 1 REQUIRED

REQUEST.

NOT REQUIRED

= 1 WATER CLOSET REQUIRED

1 UNISEX WATER CLOSET PROVIDED

WATER WILL BE PROVIDED FOR FREE UPON

DRINKING FOUNTAIN COUNT:
DRINKING FOUNTAINS REQUIRED: 5 OCCUPANTS / 100
DRINKING FOUNTAIN PROVIDED:

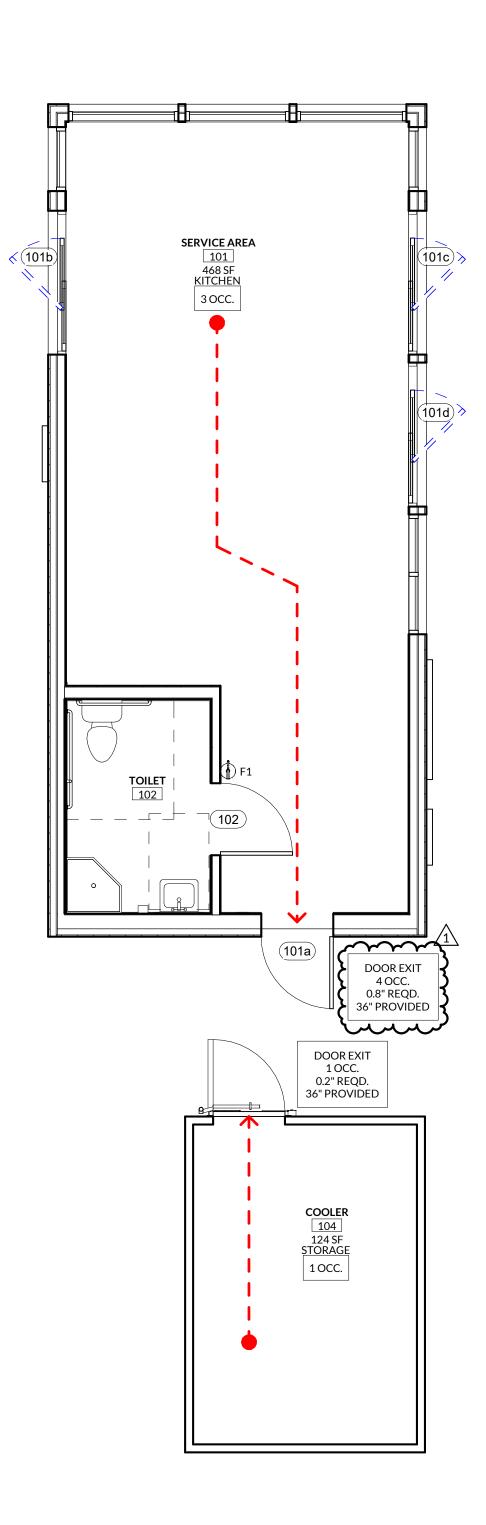
SERVICE SINK COUNT:
SERVICE SINKS REQUIRED:

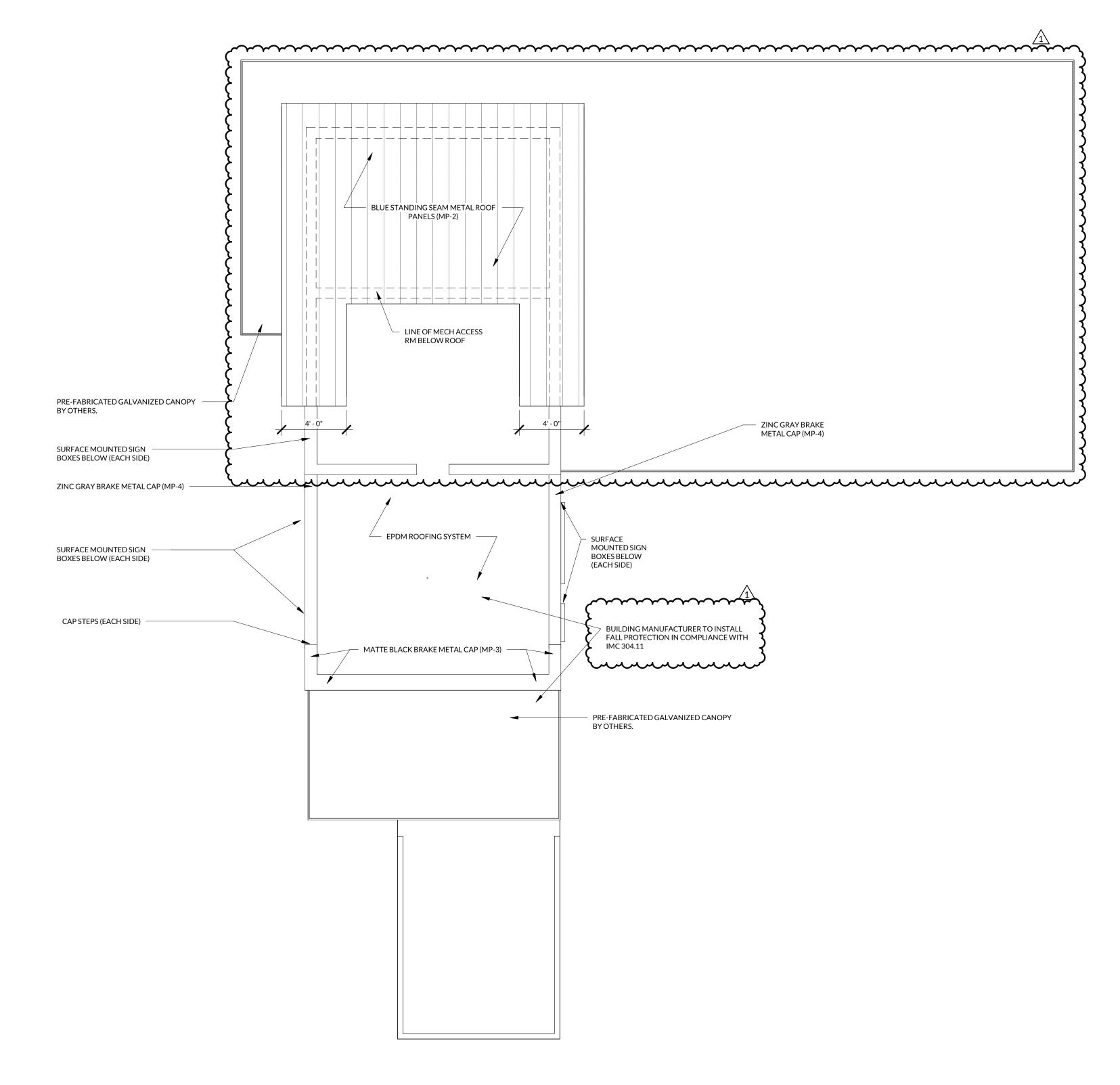
SERVICE SINKS REQUIRED: = 1 REQUIRED SERVICE SINK PROVIDED: = 1 PROVIDED

FIRE EXTINGUISHER NOTES

F1 10 LBS, ABC FIRE EXTINGUISHER ON WALL MOUNTED BRACKET. MOUNT HANDLE @ 4'-0".

75'-0" RADIUS FROM FIRE EXTINGUISHER @ F1
(NOT SHOWN, ENCOMPASSES ENTIRE BUILDING)





1 EGRESS PLAN 1/4" = 1'-0"

ROOF PLAN

ORGERSON

ESIGN PARTNERS

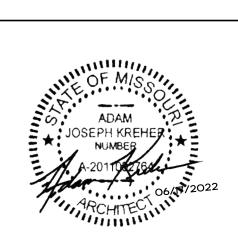
HITECTURE / REAL ESTATE / DEVELOPMENS

MO 65721 · P (417) 581-889 · F (417) 581-900 (60)

CONSTRUCTION



7 BREW COFFEE
LEE'S SUMMIT, M



ARCHITECT OF RECORD:

NAME: ADAM KREHER

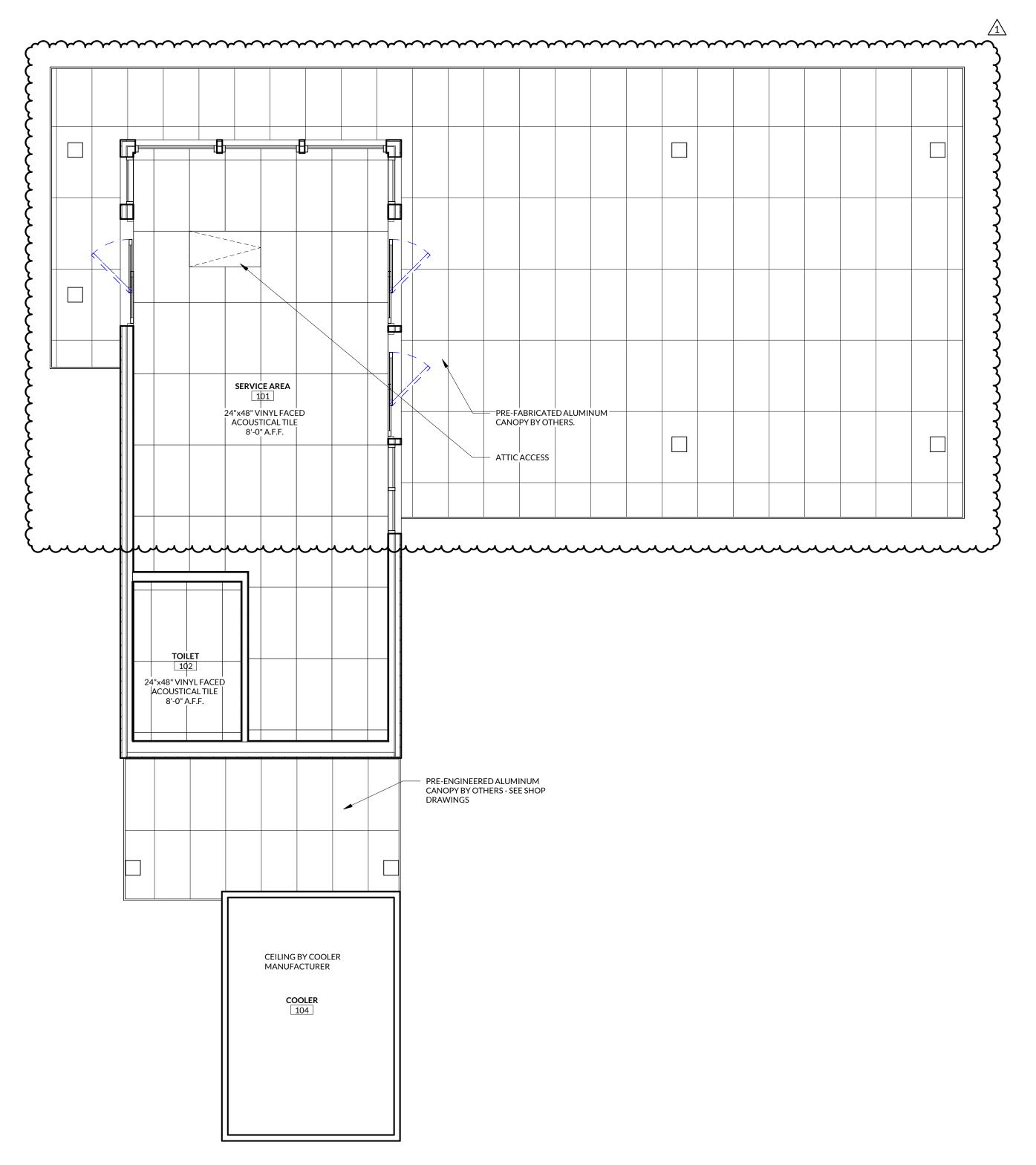
LICENSE NO. 2011002764

PROJECT NUMBER: 22033 7BLS

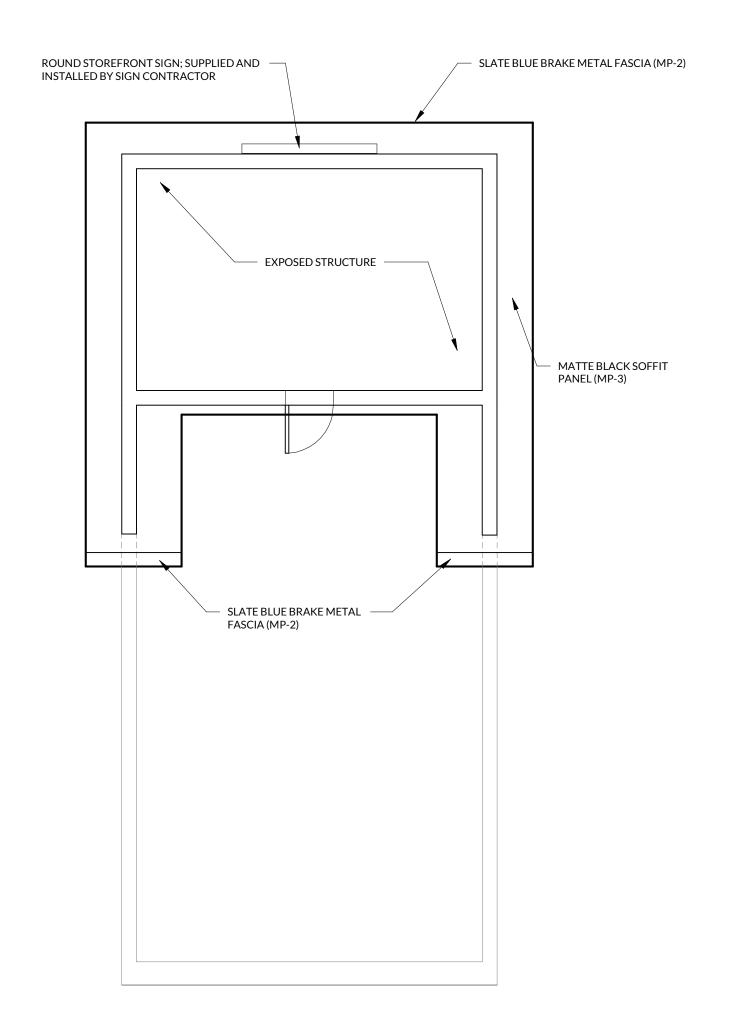
REVISION: 1 ADD 001 6/17/22

A1.2
ROOF PLAN/

EGRESS PLAN

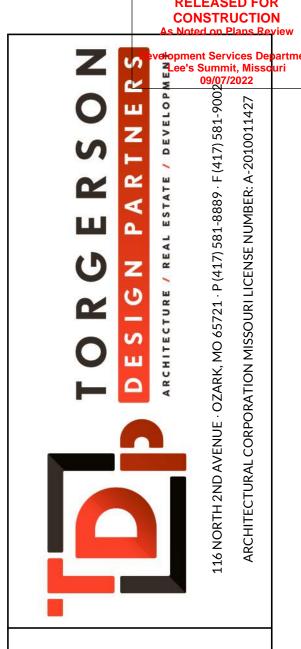


RCP - GROUND LEVEL



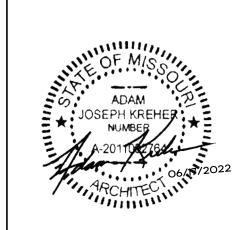
RCP - ATTIC FLOOR

1/4" = 1'-0"



7 BREW COFFEE
LEE'S SUMMIT, MC

1



ARCHITECT OF RECORD:

NAME: ADAM KREHER

LICENSE NO. 2011002764

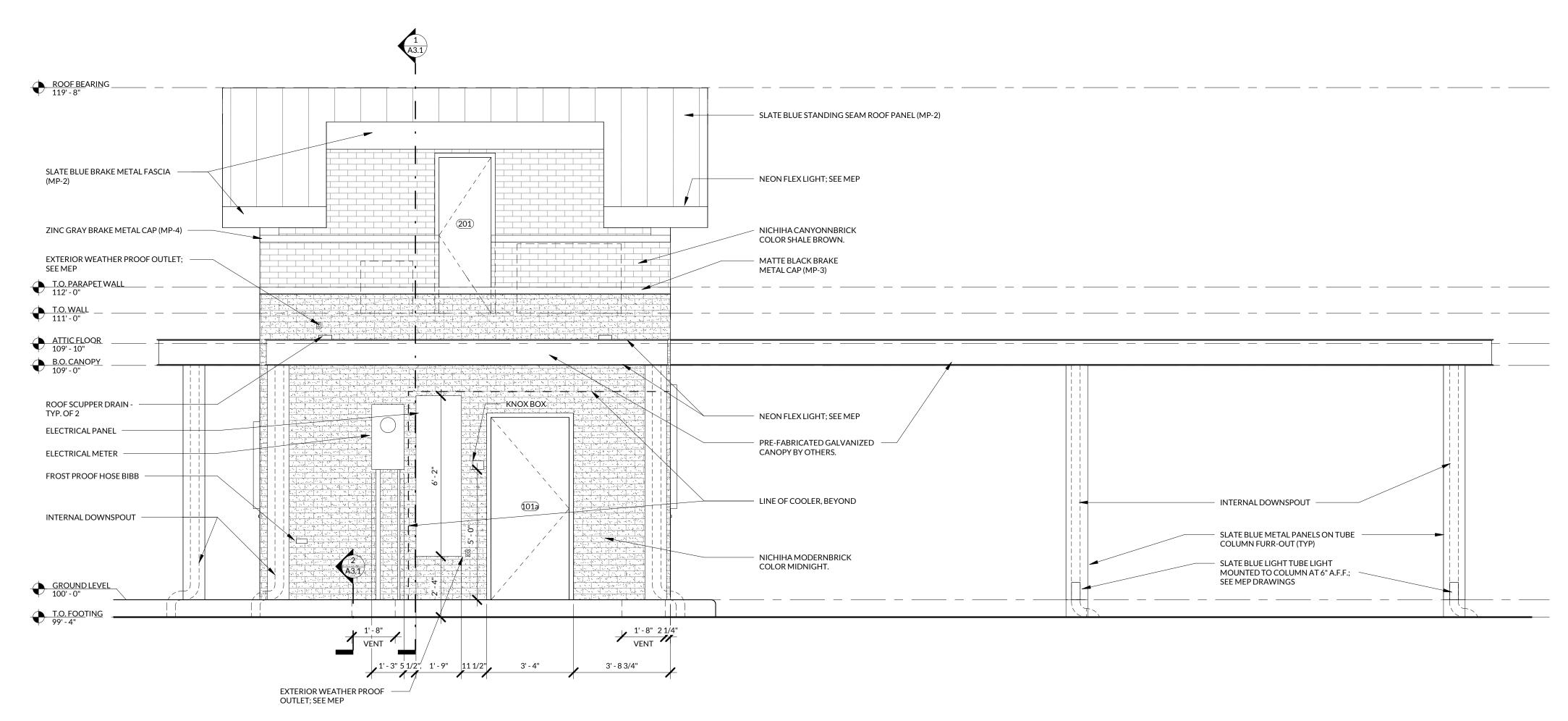
PROJECT NUMBER: 22033 7BLS

REVISION: 1 ADD 001 6/17/22

A1.3

REFLECTED CEILING
PLANS
DATE: APRIL 22, 2022

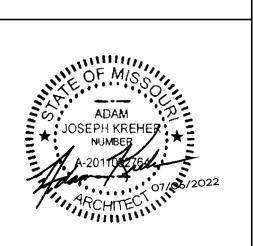




2 EXTERIOR ELEVATION - BACK
3/8" = 1'-0"

CONSTRUCTION
As Noted on Plans Review

BREW



ARCHITECT OF RECORD: NAME: ADAM KREHER LICENSE NO. 2011002764

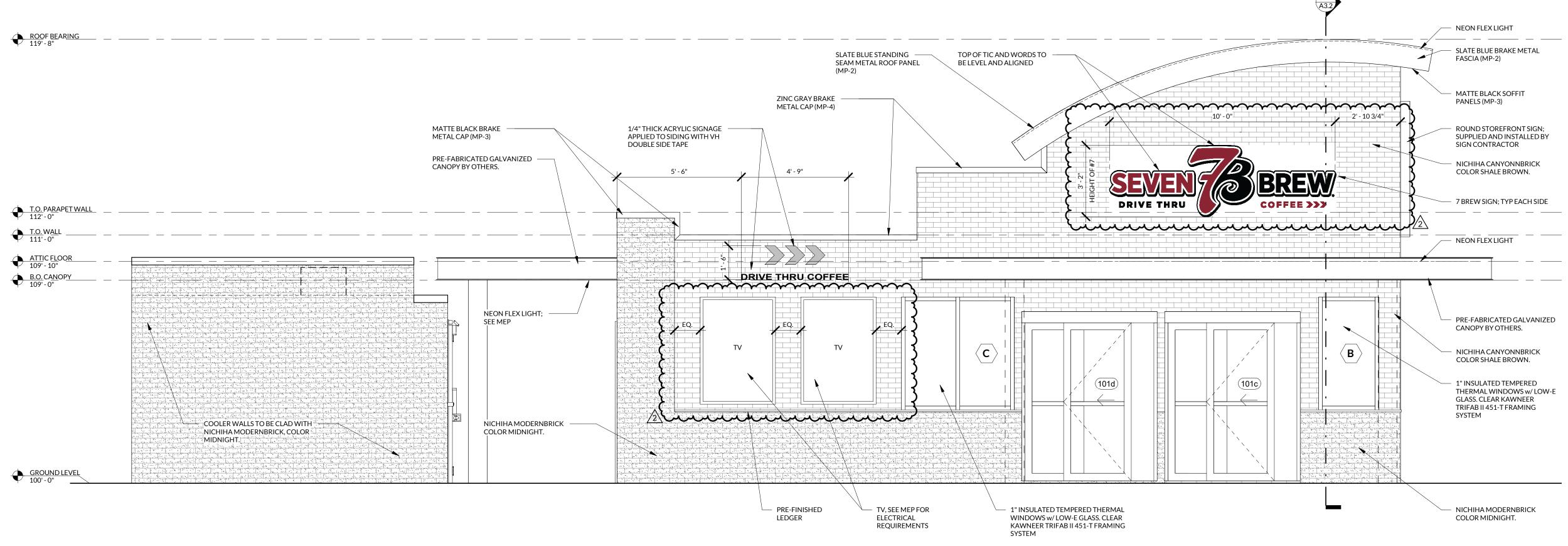
PROJECT NUMBER: 22033 7BLS

REVISION: 1 ADD 001 6/17/22

ADD 002 7/5/22

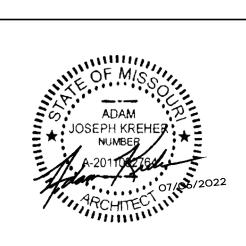
A2.1 **EXTERIOR ELEVATIONS** DATE: APRIL 22, 2022







OFFEE BREW



ARCHITECT OF RECORD: NAME: ADAM KREHER LICENSE NO. 2011002764

PROJECT NUMBER: 22033 7BLS

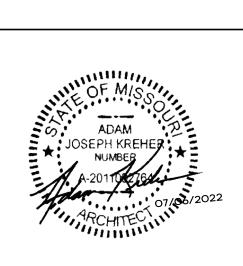
REVISION: 1 ADD 001 6/17/22

ADD 002 7/5/22

A2.2 **EXTERIOR ELEVATIONS**



OFFEE **BREW**



ARCHITECT OF RECORD: NAME: ADAM KREHER

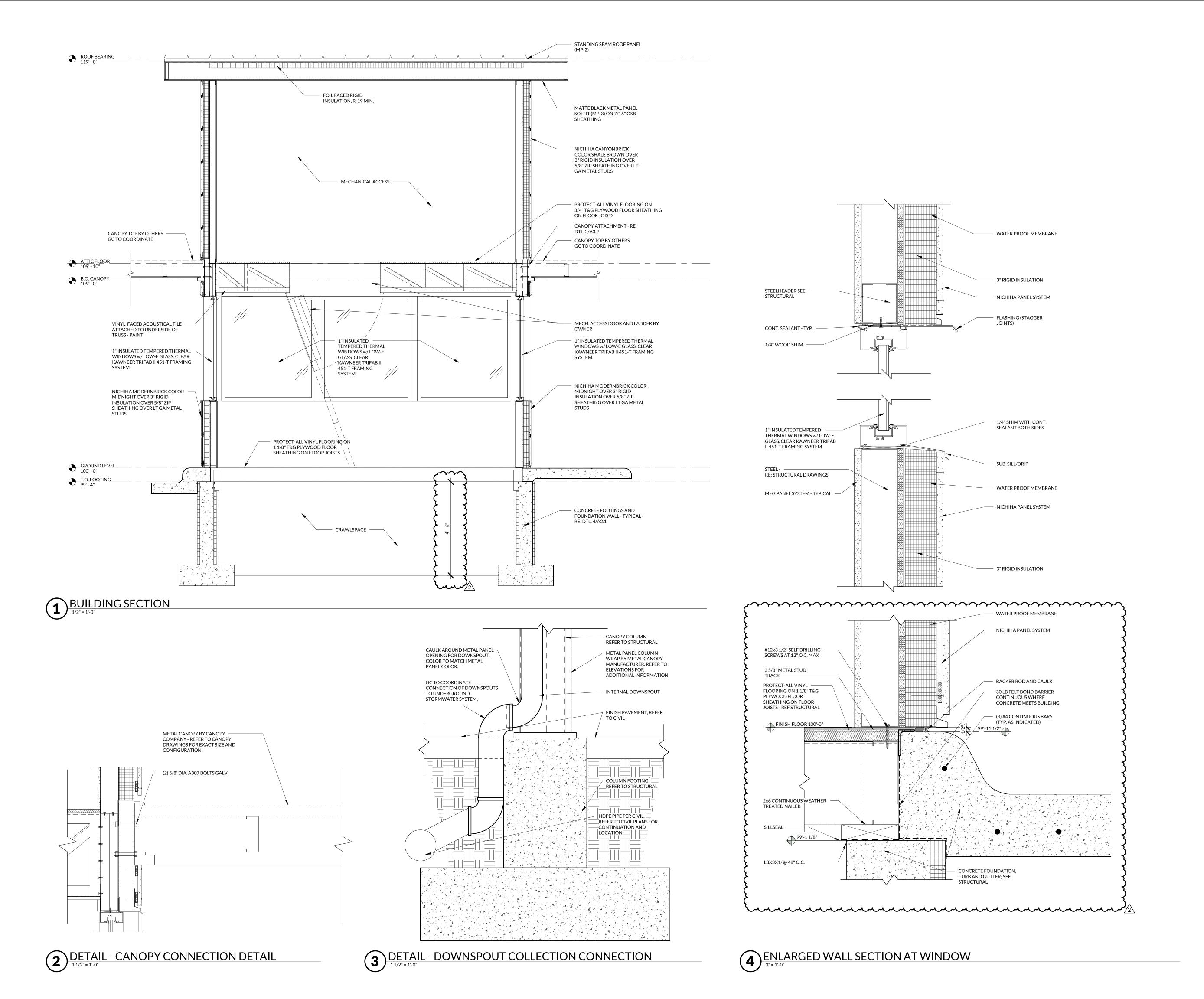
LICENSE NO. 2011002764

PROJECT NUMBER: 22033 7BLS

REVISION: 1 ADD 001 6/17/22

ADD 002 7/5/22

A3.1 SECTIONS AND **DETAILS** DATE: APRIL 22, 2022

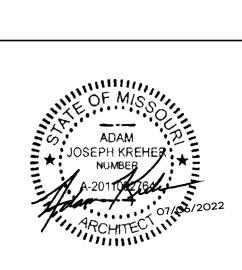


TORE GERSON

TORESTATE / DESTATE / DEVELOP MENANCE STATE / DEVELOP MENANCE STA

7 BREW COFFEE
LEE'S SUMMIT, M

1430 NE EE'S SUMI



ARCHITECT OF RECORD:

NAME: ADAM KREHER

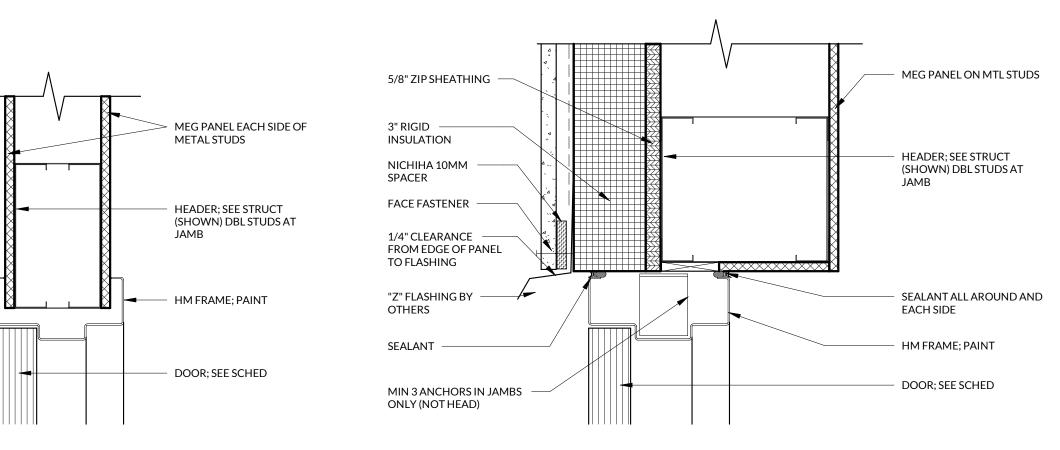
LICENSE NO. 2011002764

PROJECT NUMBER: 22033 7BLS

REVISION: ADD 002 7/5/22

A3.2

SECTIONS AND
DETAILS
DATE: APRIL 22, 2022

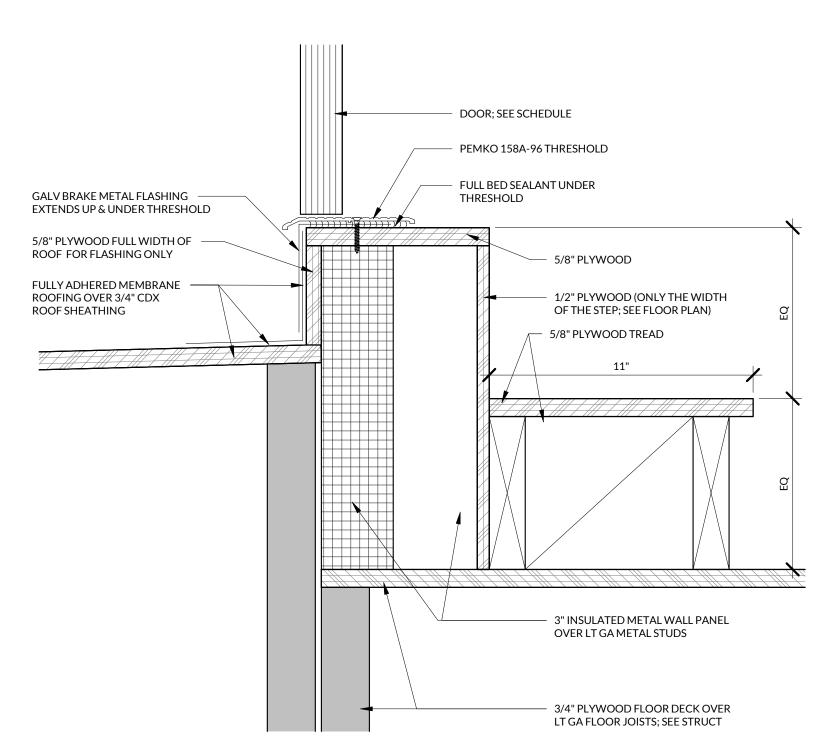


DOOR HEAD @ HM FRAME

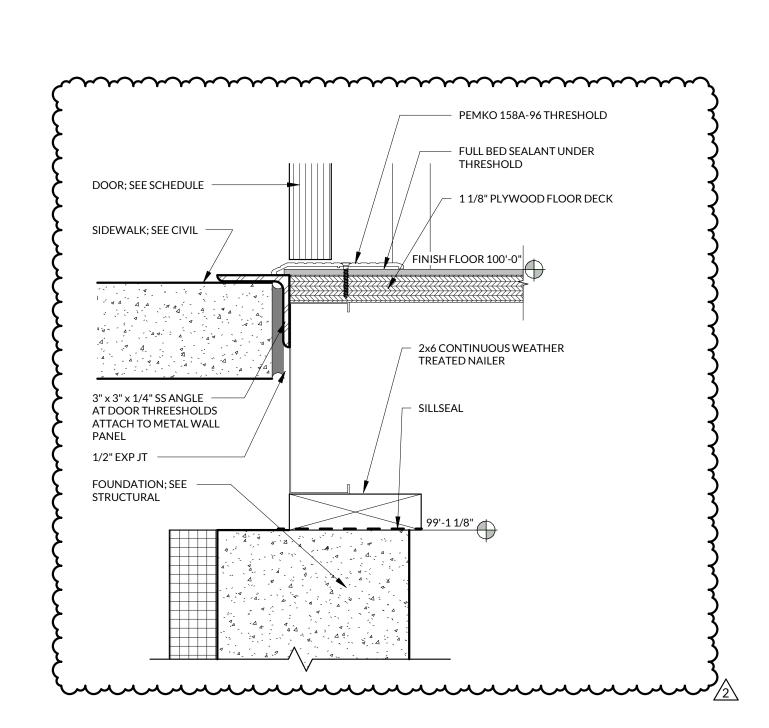
3" = 1'-0"

DOOR HEAD @ 3" INSUL PANEL

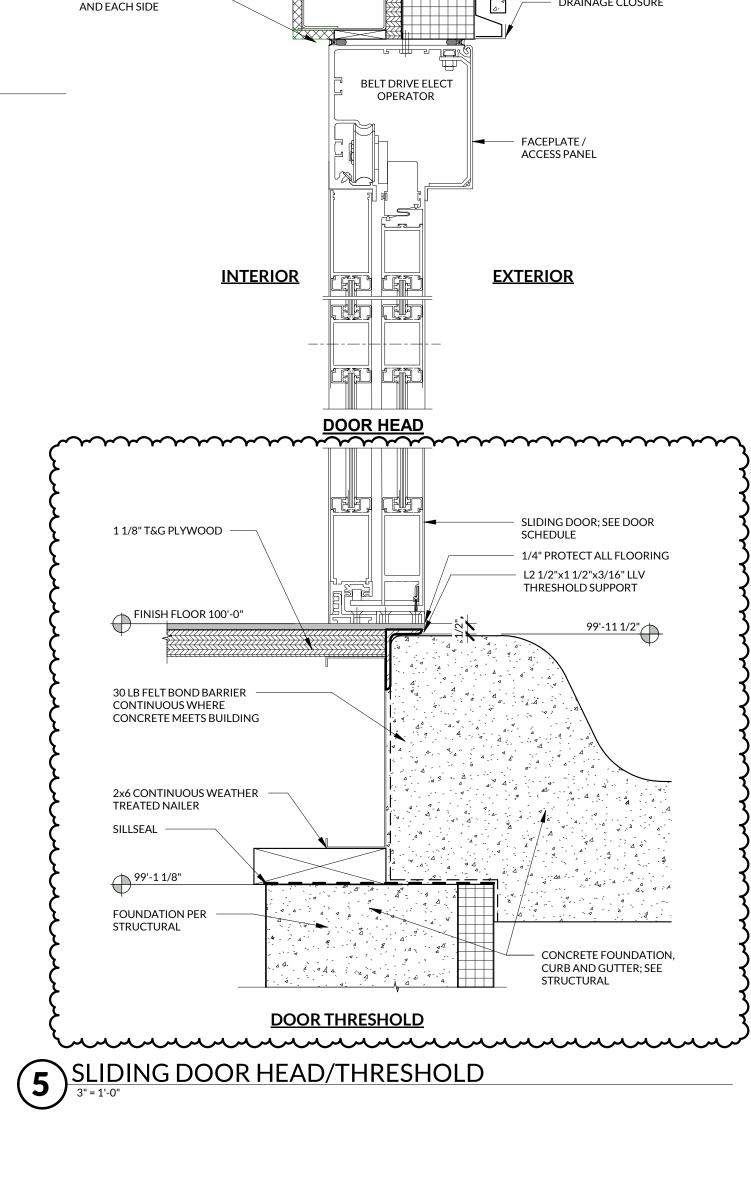
3" = 1'-0"



3 DOOR THRESHOLD @ MECH ACCESS RM DOOR



DOOR THRESHOLD @ MAIN FLOOR EXTERIOR DOOR



VINYL FACED ACOUSTICAL TILE

LT GA HEADER; SEE STRUCT —

MEG PANEL WALLS

SEALANT ALL AROUND

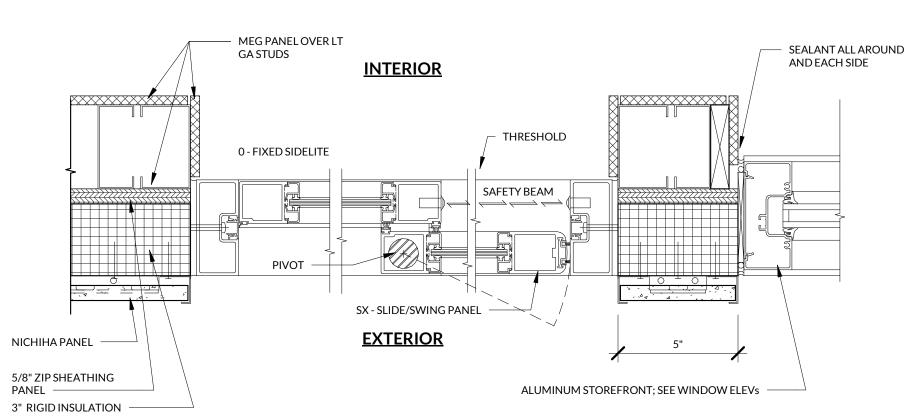
THROUGHOUT

NICHIHA PANEL SYSTEM.

5/8" ZIP SHEATHING

- 3" RIGID INSULATION

DRAINAGE CLOSURE

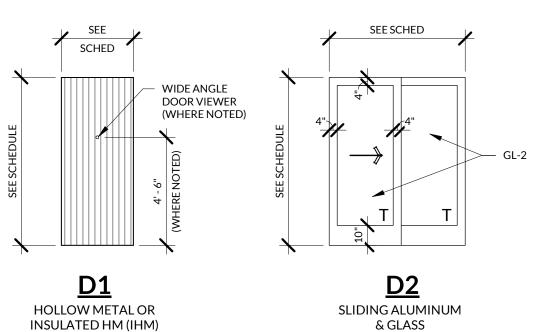


SLIDING DOOR JAMB

3" = 1'-0"

	DOOR SCHEDULE												
				DOOR	F	RAME		DETAILS					
DOOR NUMBER	ROOM	SIZE	TYPE	MATERIAL	TYPE	MATERIAL	HEAD	JAMB	THRESHOLD	FIRE RATING	HARDWARE SET	COMMENTS	
101a	SERVICE AREA	3'-0"x7'-0"	D1	НМ	F1	НМ	2/A4.1	2/A4.1 SIM.			1		
101b	SERVICE AREA	6'-0"x7'-6"	D2	ALUM	F2	ALUM	3/A2.2	3/A2.2			4		
101c	SERVICE AREA	6'-0"x7'-6"	D2	ALUM	F2	ALUM	3/A2.2	3/A2.2			4		
101d	SERVICE AREA	6'-0"x7'-6"	D2	ALUM	F2	ALUM	3/A2.2	3/A2.2			4		
102	TOILET .	3'-0"x7'-0"	D1	НМ	F1	НМ	1/A4.1	1/A4.1 SIM.			2		

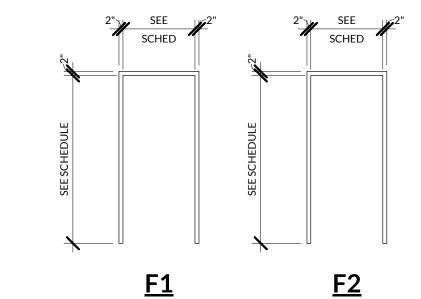
DOOR ELEVATIONS



MECH. ACCESS ROOM 2'-0"x6'-0" D1 IHM

FRAME ELEVATIONS

2/A4.1 SIM.



HOLLOW METAL

ALUMINUM FRAME

BUILDING CODE (IBC) AND THE STATE OF MISSOURI ACCESSIBILITY CODE:

- a. REFER TO DOOR SCHEDULE FOR HARDWARE SETS
- b. PAINT TO MATCH ADJACENT FINISHES

DOOR SCHEDULE NOTES:

c. REFER TO CODE COMPLIANCE DOOR NOTES (BELOW) FOR ADDITIONAL REQUIREMENTS.

CODE COMPLIANCE DOOR NOTES:

ALL EXIT DOORS SHALL CONFORM TO THE FOLLOWING PROVISIONS OF THE INTERNATIONAL

- 1. THE EXIT DOORS SHALL BE OPERABLE FROM THE INSIDE WITHOUT THE USE OF ANY SPECIAL
- KNOWLEDGE OR EFFORT WHEN THE BUILDING IS OCCUPIED.
- ALL HAND-ACTIVATED DOOR OPENING HARDWARE SHALL BE CENTERED BETWEEN 34" TO 48" A.F.F. AND SHALL BE OPERATED WITH A SINGLE EFFORT BY LEVER TYPE HARDWARE. 3. DOOR LEADING TO UNISEX TOILET ROOM SHALL BE IDENTIFIED WITH A 12" DIAMETER CIRCLE
- WITH A TRIANGLE SUPERIMPOSED ON THE CIRCLE AND WITHIN THE 12" DIAMETER. SIGN/SYMBOL SHALL BE MOUNTED ON THE WAL, ON THE LATCH SIDE OF THE DOOR AND 60" A.F.F. AND NO MORE THAN 8" FROM THE EDGE OF THE DOOR TO THE EDGE OF THE SIGN.

GENERAL NOTES

ALL GLAZING FOR EXTERIOR DOOR OR WINDOW FRAMES SHALL BE INSULATED

ALL GLAZING FOR INTERIOR DOOR OR WINDOW FRAMES SHALL BE UNINSULATED, SINGLE PANE

DOOR & FRAME FINISH LEGEND

AL = ALUM DOOR OR FRAME

HM = HOLLOW METAL DOOR OR FRAME

F1 = PAINTED

F2 = PRE-FINISHED; CLEAN & PROTECT

HARDWARE SETS:

SET #1:

CLOSER

- PANIC HARDWARE; "DETEX" ECL-600 (OR EQUAL)
 1 1/2 PAIR STANLEY #CB0700 TWO KNUCKLE HINGES
- STANLEY #803969 (OR EQUAL) STEEL-BRIGHT BRASS • 170 DEGREE, WIDE ANGLE DOOR VIEWER; SEE ELEV FOR LOCATION
- KEYED LOCK ON EXTERIOR THUMB TURN DEADBOLT KNOB ON INTERIOR

- SCHLAGE PRIVACY LOCK"SATURN" LEVER HANDLE (BRUSHED ALUMINUM)
- 1 1/2 PAIR BUTT HINGES

- 1 1/2 PAIR STANLY #CB0700 TWO KNUCKLE HINGES
 THUMB TURN DEADBOLT KNOB ON INTERIOR
- KEYED LOCK ON EXTERIOR

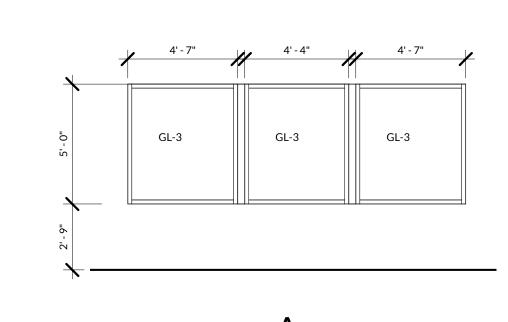
EDELMON-LYON AUTOMATIC DOOR - GT 1175 SINGLE SLIDE DOOR

KEYED LOCK ON SLIDING DOORS

GLAZING SCHEDULE

- GL-1 1/4" FULLY TEMPERED GLASS
- GL-2 1" INSULATED SAFETY GLASS
- GL-3 1" INSULATED TEMPERED GLASS GL-4 5/8" INSUL SAFETY DOOR GLASS

WINDOW ELEVATIONS



ALUMINUM STOREFRONT

GL-3

ALUMINUM STOREFRONT

GL-3 GL-3

ALUMINUM STOREFRONT

ARCHITECT OF RECORD: NAME: ADAM KREHER

LICENSE NO. 2011002764

PROJECT NUMBER: 22033 7BLS

REVISION: 2 ADD 002 7/5/22

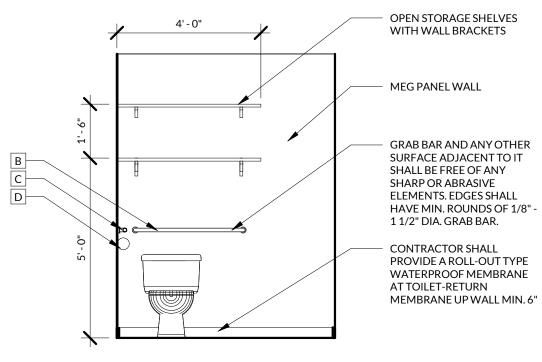
A4.1 **DOORS AND WINDOWS**

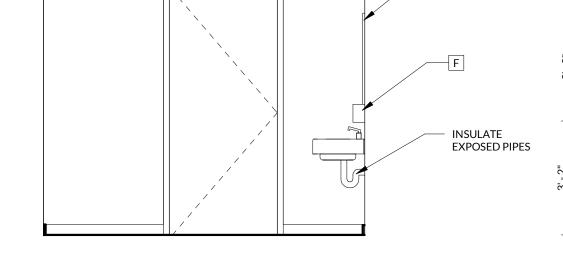
DATE: APRIL 22, 2022

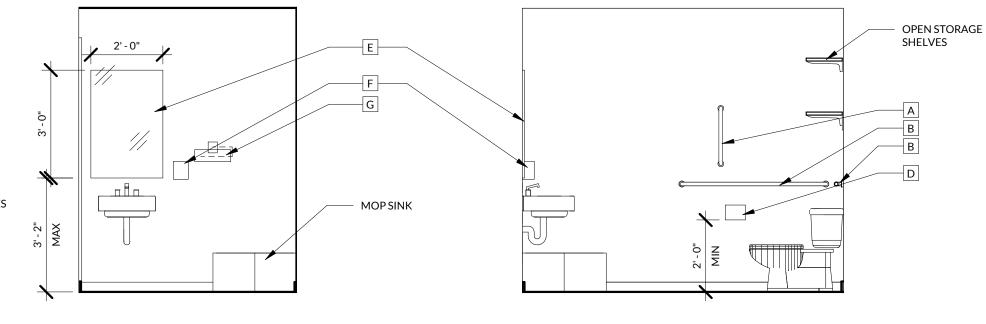
CONSTRUCTION



OFFEI BREW







RR 102 - NORTH ELEVATION

3/8" = 1'-0"

RR 102 - EAST ELEVATION

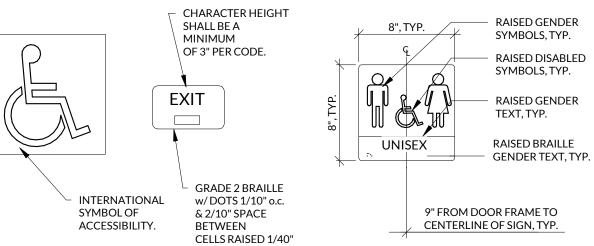
3/8" = 1'-0"

RR 102 - SOUTH ELEVATION

5 RR 102 - WEST ELEVATION

3/8" = 1'-0"

RESTROOM SIGNAGE



PER CODE.

. SIGNS SHALL CONFORM TO ANSI OR LOCAL ACCESSIBILITY GUIDELINES WHICHEVER IS MORE

- 2. ALL BUILDINGS AND ENTRANCES THAT ARE ACCESSIBLE AND USABLE BY PERSONS WITH DISABILITIES SHALL BE IDENTIFIED WITH A MINIMUM OF ONE INTERNATIONAL SYMBOL OF ACCESSIBILITY.
- 3. G.C. TO PROVIDE TACTILE "EXIT" SIGNS AT ALL GRADE LEVEL EXIT DOORS PER CODE.
- 4. SIGNS TO BE INSTALLED ON THE LATCH SIDE OF THE DOOR, OR IF NO SPACE ON THE NEAREST WALL PREFERABLY ON THE RIGHT. SIGNAGE SHALL HAVE NON GLARE FINISH W/ A CONTRASTING BACKGROUND.

RESTROOM SCHEDULE

MARK	ITEM	DESCRIPTION	NOTES
А	18" STRAIGHT GRAB BAR	EQ. TO BOBBRICK B-5806x18, VERTICAL	FINISH TO BE STAINLESS STEEL
В	36" STRAIGHT GRAB BAR	EQ. TO BOBBRICK B-5806x36, HORIZONTAL	FINISH TO BE STAINLESS STEEL
С	48" STRAIGHT GRAB BAR	EQ. TO BOBBRICK B-5806x48, HORIZONTAL	FINISH TO BE STAINLESS STEEL
D	TOILET PAPER DISPENSER		FINISH TO BE STAINLESS STEEL
Е	MIRROR	EQ. TO BOBBRICK B-165 2436	FINISH TO BE STAINLESS STEEL
F	SOAP DISPENSER		FINISH TO BE STAINLESS STEEL
G	PAPER TOWEL DISPENSER		FINISH TO BE STAINLESS STEEL

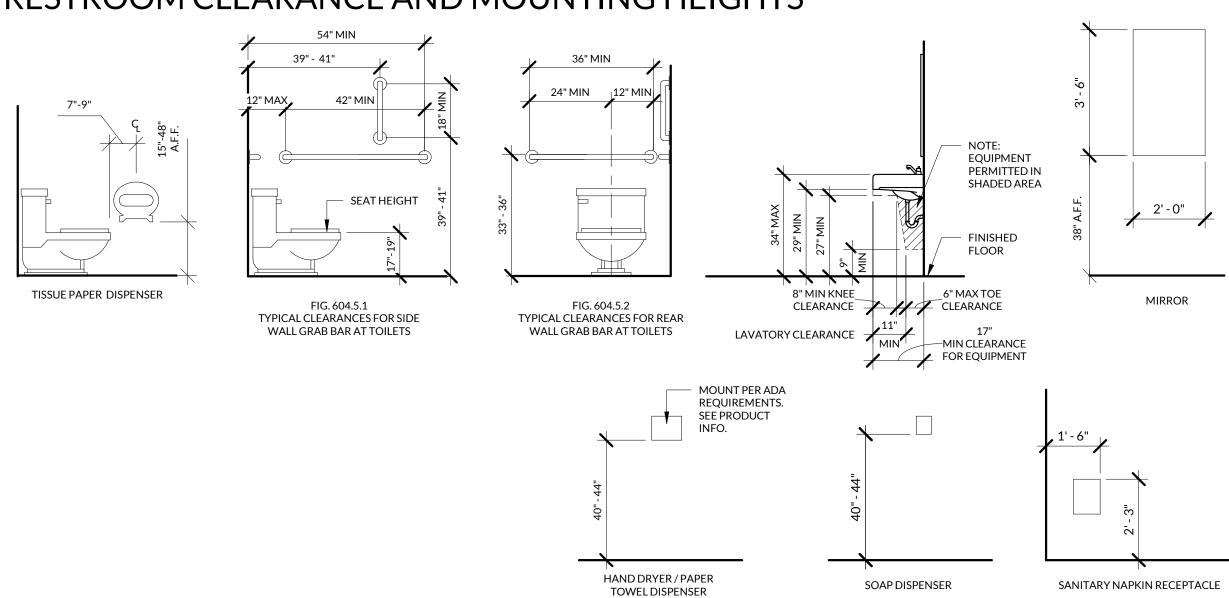
NOTES:

- A. MOUNTING HEIGHT TO COMPLY WITH ADA REQUIREMENTS. CONTRACTOR IS TO PROVIDE ALL BLOCKING NECESSARY FOR PROPER INSTALLATION. INSTALL PER MANF. RECOMMENDATIONS.
- INSTALL PER MANF. RECOMMENDATIONS.

 B. EQUIPMENT SHOWN MAY NOT REFLECT APPEARANCE OF FINAL EQUIPMENT SELECTION.
- C. ALL EQUIPMENT SHALL BE EQUAL TO THAT SPECIFIED. CONTRACTOR TO SUBMIT SHOP DRAWINGS/ CUT SHEETS FOR APPROVAL ON FINAL SELECTION.

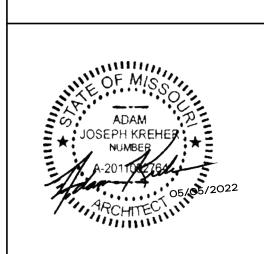
 D. ALL DIMENSIONS TO BE VERIFIED WITH PRODUCT REQUIREMENTS. INSTALL PER MANF. RECOMMENDATIONS.

RESTROOM CLEARANCE AND MOUNTING HEIGHTS





LEE'S SUMMIT, MO



ARCHITECT OF RECORD:

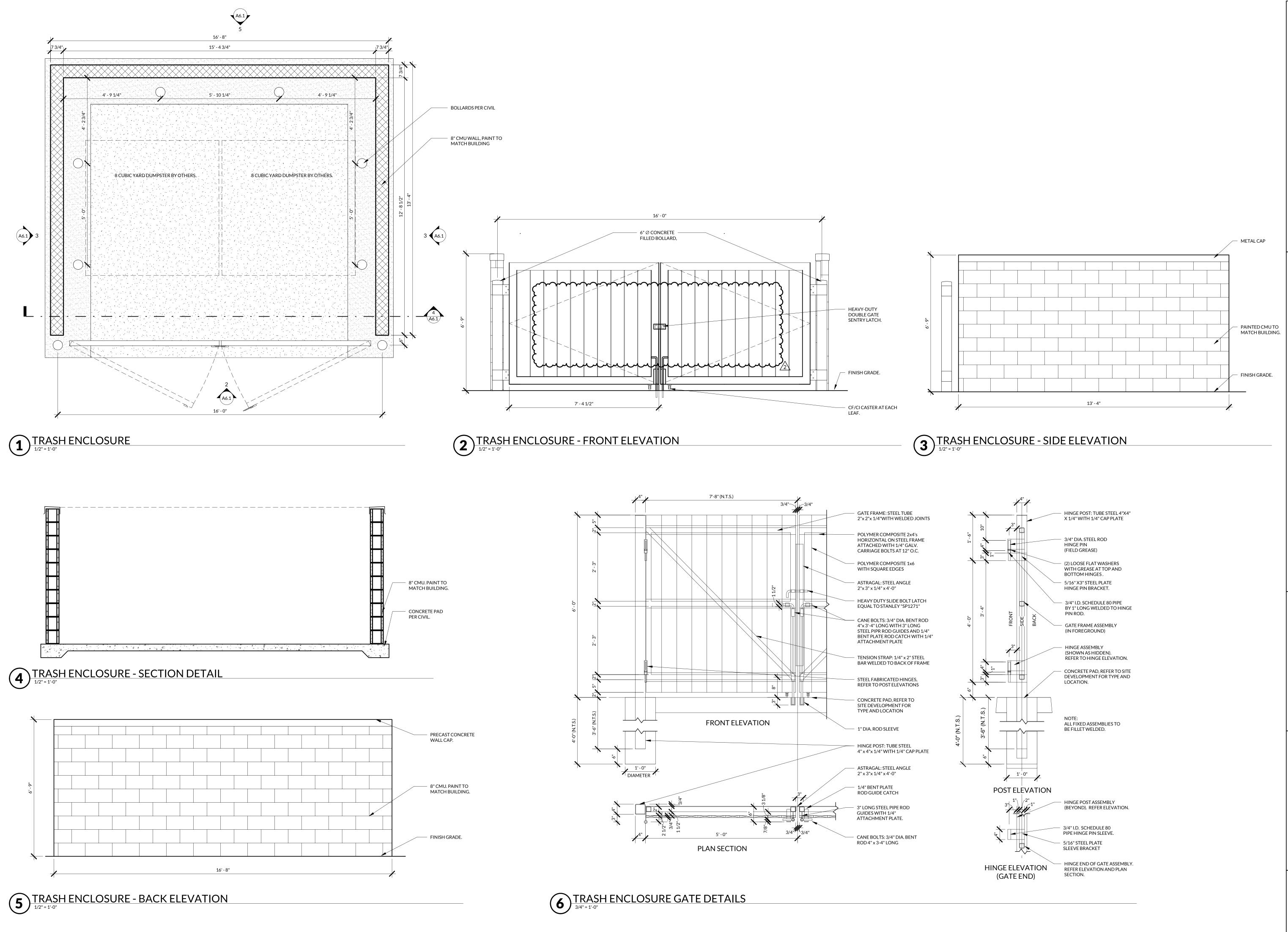
NAME: ADAM KREHER

LICENSE NO. 2011002764

PROJECT NUMBER:

22033 7BLS REVISION:

A5.1
RESTROOMS



TORGERSON ILICENSE NUMBER: A-2010011427 Segretary and a segretary of the s

CONSTRUCTION As Noted on Plans Revie

7 BREW COFFEE
LEE'S SUMMIT, M

ADAM
JOSEPH KREHER
NUMBER
A-2011042164

ARCHITEC

ARCHITECT OF RECORD:

NAME: ADAM KREHER

LICENSE NO. 2011002764

PROJECT NUMBER: 22033 7BLS

REVISION: ADD 002 7/5/22

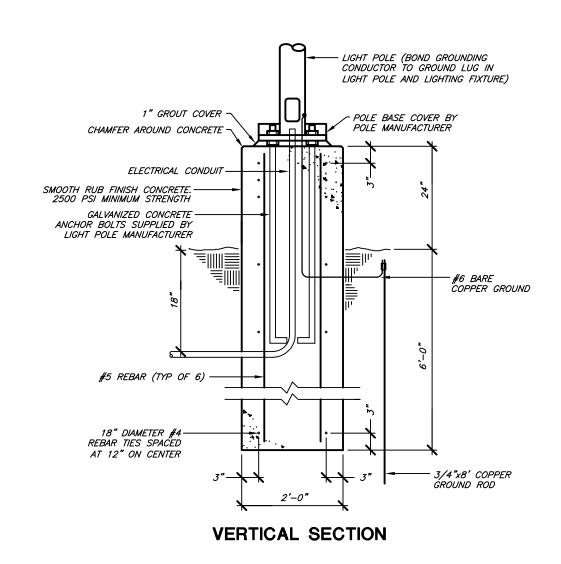
A6.1

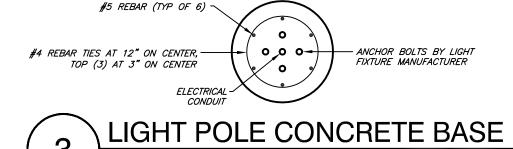
TRASH ENCLOSURE

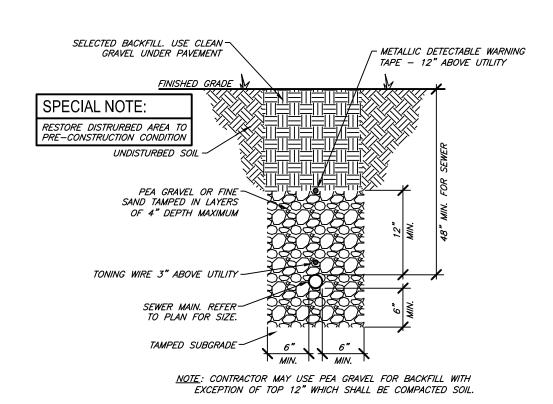
DETAILS

DATE: APRIL 22, 2022

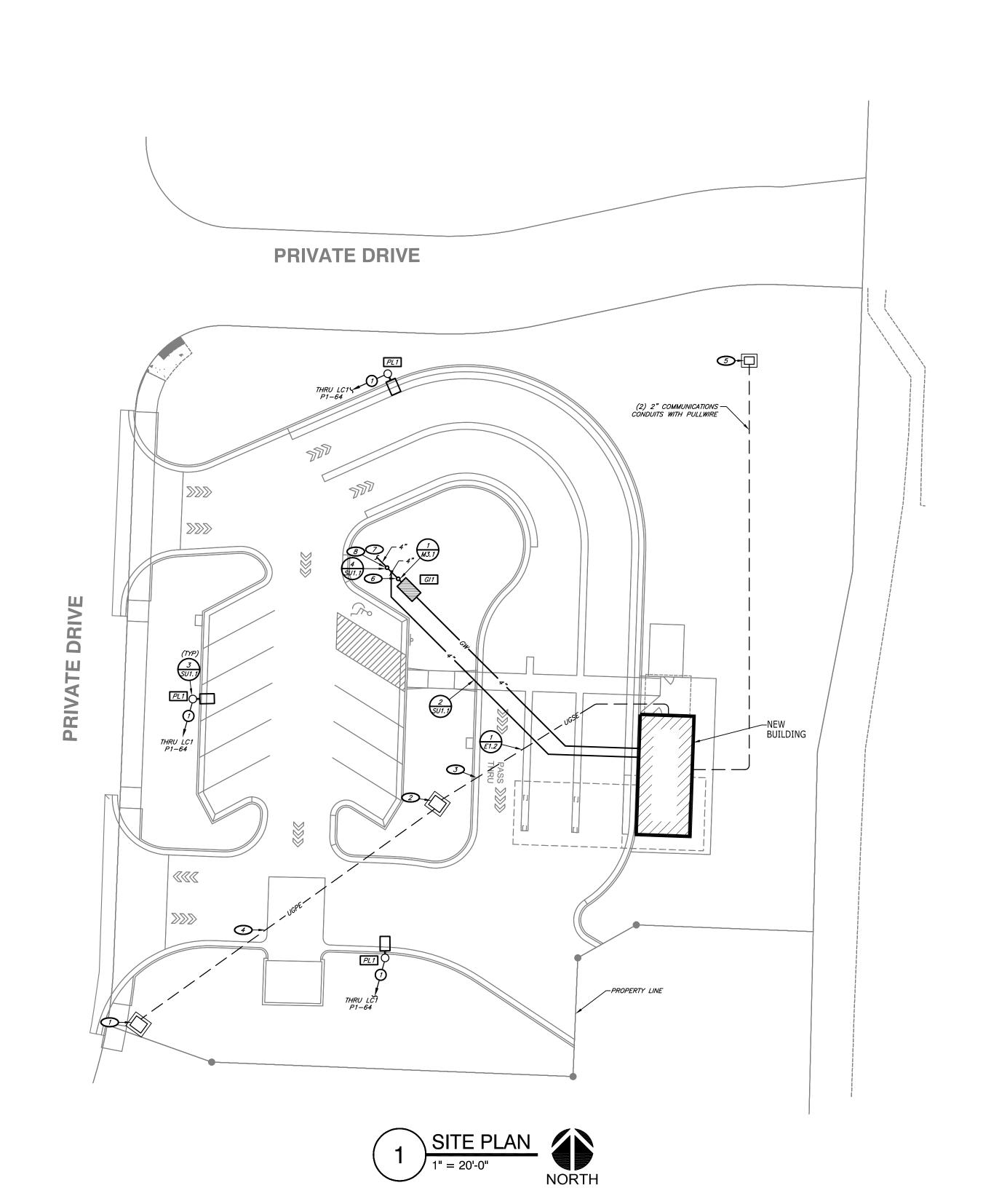
FINISH GRADE SAMPLING MANHOLE DETAIL NO SCALE







2 SEWER TRENCH DETAIL
NO SCALE



KEYNOTES:

- EXISTING PRIMARY JUNCTION BOX IN THIS AREA. COORDINATE EXACT LOCATION AND REQUIREMENTS WITH UTILITY COMPANY.
- 2 PADMOUNT 120/240-VOLT SINGLE-PHASE TRANSFORMER BY UTILITY COMPANY.
 CONCRETE PAD BY CONTRACTOR. EXACT LOCATION SHALL BE FIELD
 DETERMINED/COORDINATED.

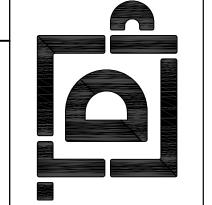
 3 SECONDARY CONDUIT AND CONDUCTORS BY CONTRACTOR. FIELD COORDINATE
 EXACT ROUTINGS.
- EXACT ROUTINGS.

 PRIMARY CONDUITS AND CONDUCTORS BY UTILITY COMPANY. VERIFY EXACT ROUTING, TERMINATION LOCATION, AND REQUIREMENTS WITH THE UTILITY COMPANY. COORDINATE WITH UTILITY COMPANY FOR CONDUCTOR/CONDUIT SIZES.
- 5 PROVIDE 18x18 2-BOLT, OPEN BOTTOM, HEAVY DUTY PULL BOX EQUIVALENT TO HUBBELL-QUAZITE MODEL DT121212GSN. "COMMUNICATIONS" SHALL BE INSCRIBED ON THE LID. INSTALL TOP OF BOX FLUSH WITH FINISH GRADE. PROVIDE EXTENSION AS REQUIRED TO MATCH CONDUIT BURIAL DEPTH. VERIFY/COORDINATE EXACT SERVICE LOCATION AND ALL REQUIREMENTS WITH SERVICE PROVIDER(S) PRIOR TO CONDUIT AND COMMUNICATION BOX INSTALLATION.
- 6 4" WASTE UP TO FINISH GRADE CLEANOUT.

 7 REFER TO CIVIL PLAN FOR CONTINUATION.
- 8 4" WASTE UP TO SAMPLING MANHOLE.

CONDUIT & CONDUCTOR SCHEDULE:

(2) #10 AND (1) #10 GROUND IN 0.75" CONDUIT.



CONSTRUCTION

(417) R: A-2

7. 108 108

GENERAL NOTES:

- 1. UTILITY ROUTINGS ARE DIAGRAMMATIC. ADJUST EXACT ROUTING TO ACCOMMODATE FIELD CONDITIONS. REFER TO CIVIL AND PUBLIC IMPROVEMENT PLANS FOR NEW SEWER, WATER AND STORMWATER PIPING
- 2. REFER TO CIVIL AND PUBLIC IMPROVEMENT PLANS FOR LOCATION AND COORDINATION OF ALL EASEMENTS.
- 3. REVIEW ALL CIVIL AND PUBLIC IMPROVEMENT PLANS AND COORDINATE ALL WORK WITH DIFFERENT DISCIPLINES. REVIEW AND OBTAIN APPROVAL FROM CITY UTILITIES AND CITY OF SPRINGFIELD PRIOR TO PERFORMING ANY UTILITY WORK.
- SPRINGFIELD PRIOR TO PERFORMING ANY UTILITY WORK.

 4. THE CONTRACTOR SHALL VERIFY ALL EXISTING CONDITIONS PRIOR TO SUBMITTING HIS BID.
 NO EXTRAS WILL BE PAID DUE TO UNANTICIPATED EXISTING CONDITIONS. PLANS ARE
 DIAGRAMMATIC AND SHALL NOT BE SCALED. REFER TO ARCHITECTURAL AND CIVIL DRAWINGS
 FOR DIMENSIONS.
- 5. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING TEMPORARY TELEPHONE, ELECTRICAL AND WATER SERVICES REQUIRED DURING CONSTRUCTION, AND SHALL PAY ALL
- 6. THE CONTRACTOR SHALL CONTACT EVERGY AT (888) 471-5275 AND ARRANGE FOR ELECTRICAL SERVICES AS INDICATED ON DRAWINGS. THE CONTRACTOR SHALL INCLUDE ALL FEES, CHARGES, ETC. INCURRED BY THE UTILITY COMPANY INTO BID. THE CONTRACTOR SHALL PROVIDE ALL MATERIALS AS REQUIRED BY THE LOCAL AUTHORITIES FOR SERVICE INSTALLATION, ALL WORK SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS OF LOCAL AUTHORITIES.
- AUTHORITIES.

 7. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING WITH TELECOMMUNICATIONS AND CABLE TELEVISION SERVICE PROVIDERS TO FACILITATE AND SCHEDULE INSTALLATION OF SERVICES. CONTRACTOR SHALL COORDINATE WITH OWNER FOR SERVICE PROVIDER CONTACT. THE OWNER SHALL BE RESPONSIBLE FOR ALL COSTS, CHARGES, FEES, ETC. INCURRED BY SERVICE PROVIDERS. PROVIDE ALL MATERIALS AS REQUIRED BY LOCAL AUTHORITIES FOR SERVICE INSTALLATION. ALL WORK SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS OF LOCAL AUTHORITIES.
- 8. ALL SITE ELECTRICAL INSTALLATIONS AND CONSTRUCTION SHALL BE PER THE MOST RECENT REVISIONS OF THE NATIONAL ELECTRIC SAFETY CODE (NESC) AND THE NATIONAL ELECTRIC
- CODE (NEC) STANDARDS AND SPECIFICATIONS.

 9. COORDINATE ALL TRANSFORMER LOCATIONS WITH OTHER UTILITIES INDICATED ON CIVIL PLANS.
- 10. REFER TO CIVIL PLANS FOR ALL SITE SANITARY SEWER WORK.

SITE UTILITIES SYMBOLS:

7 BRE LEE'S



ENGINEER OF RECORD:

NAME: RYAN JONES

LICENSE NO.PE-2004017193

PROJECT NUMBER: 21334 7BSM

REVISION:



CJD L

Engineering | Energy | Innovation

2225 West Chesterfield Boulevard, Suite 200, Springfield, MO 65807

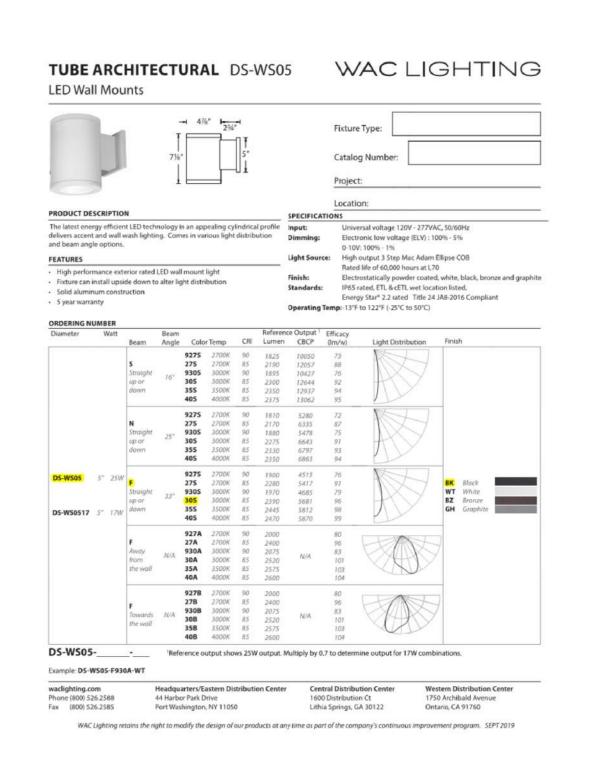
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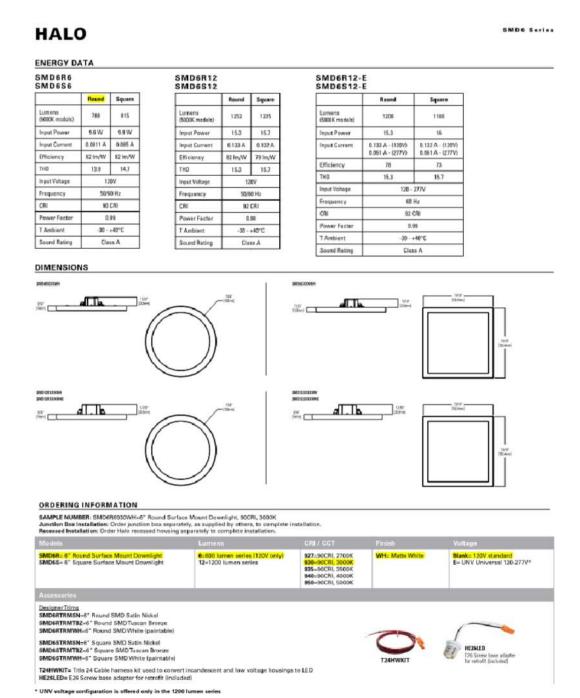
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SITE UTILITIES
PLAN
PLAN
DATE: APRIL 26, 2022

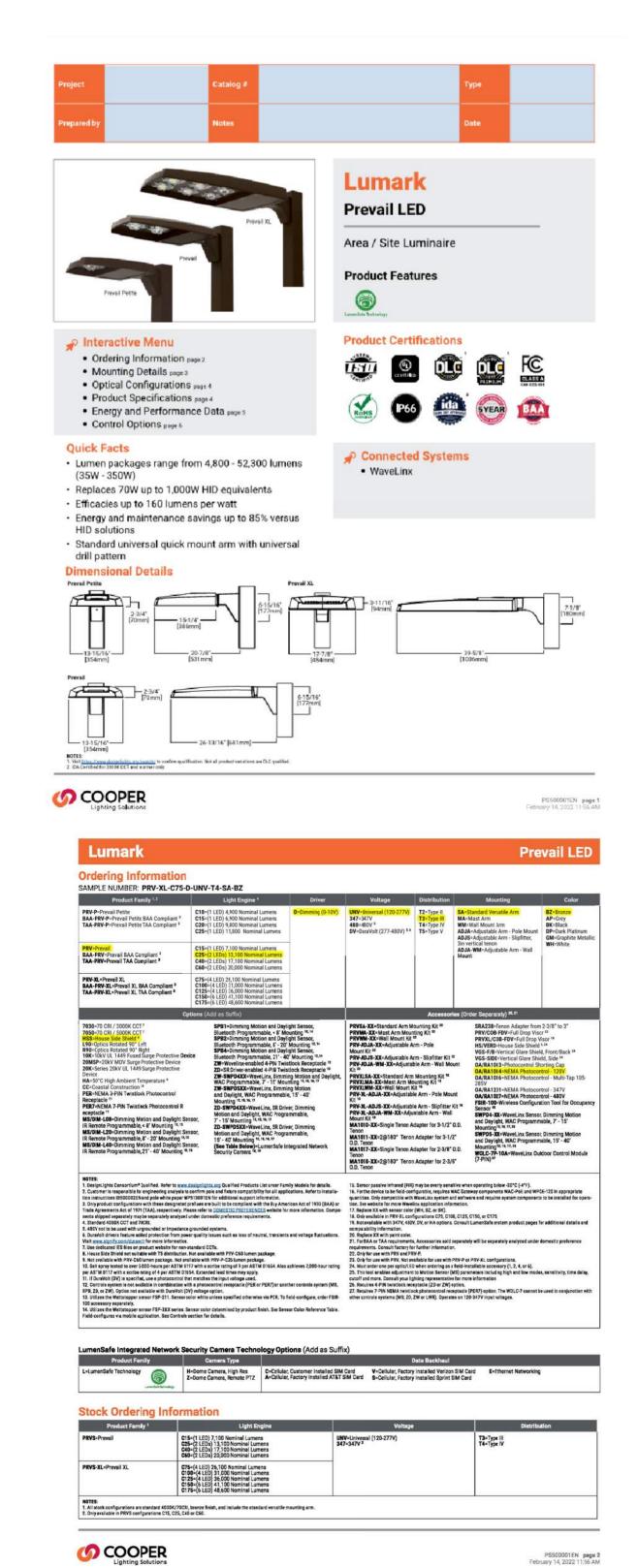




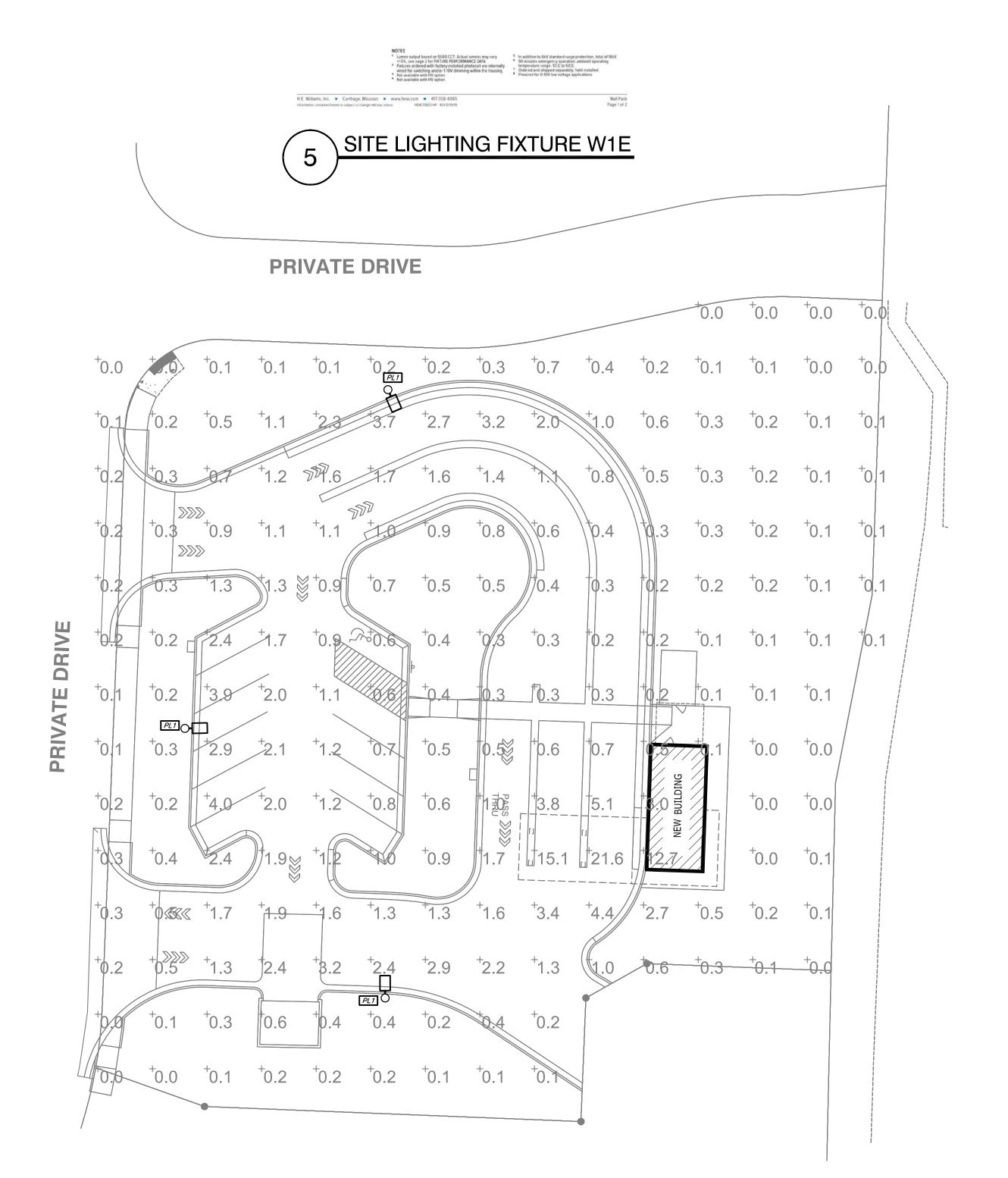




COOPER











SITE PHOTOMETRIC PLAN **DATE:** APRIL 26, 2022

RELEASED FOR CONSTRUCTION

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ASMO

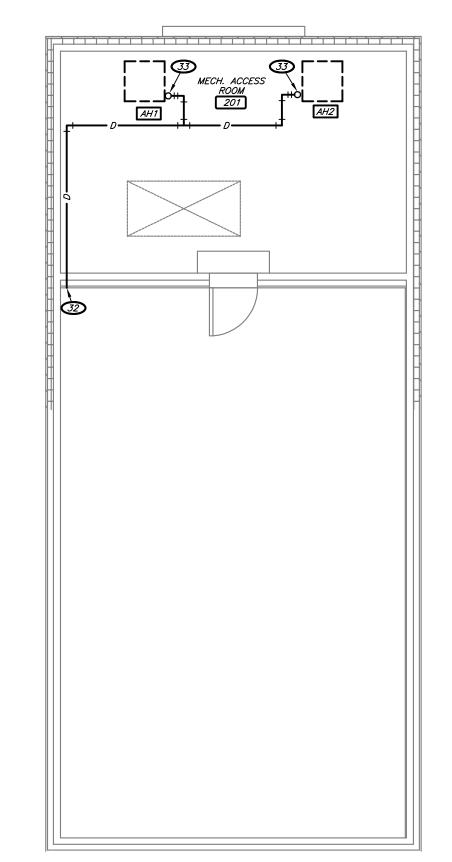
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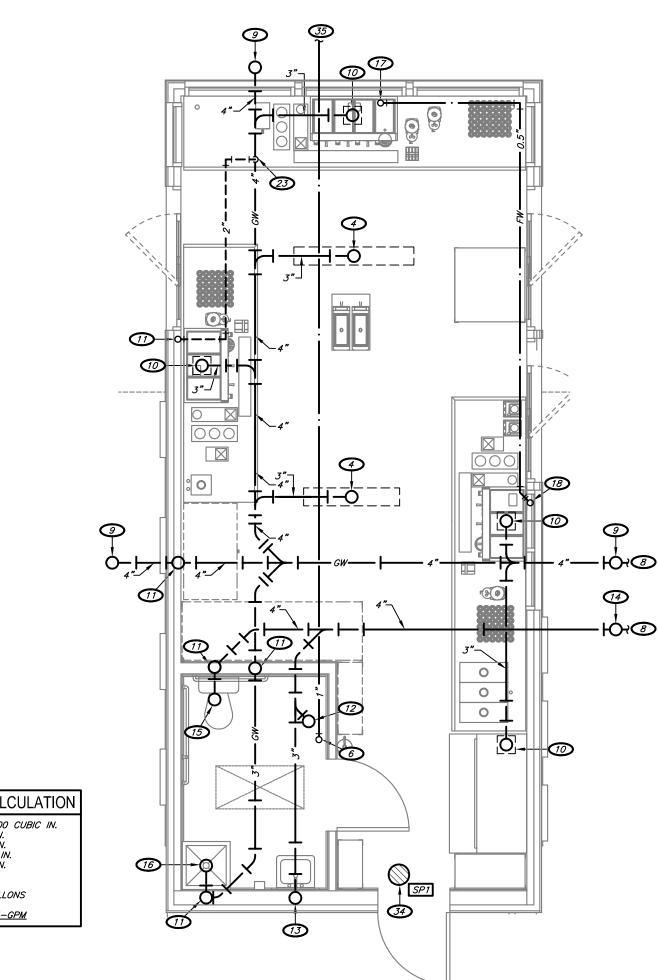
ENGINEER OF RECORD: NAME: RYAN JONES LICENSE NO.PE-2004017193

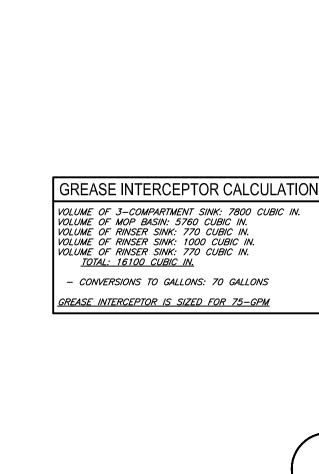
PROJECT NUMBER: 21334 7BSM

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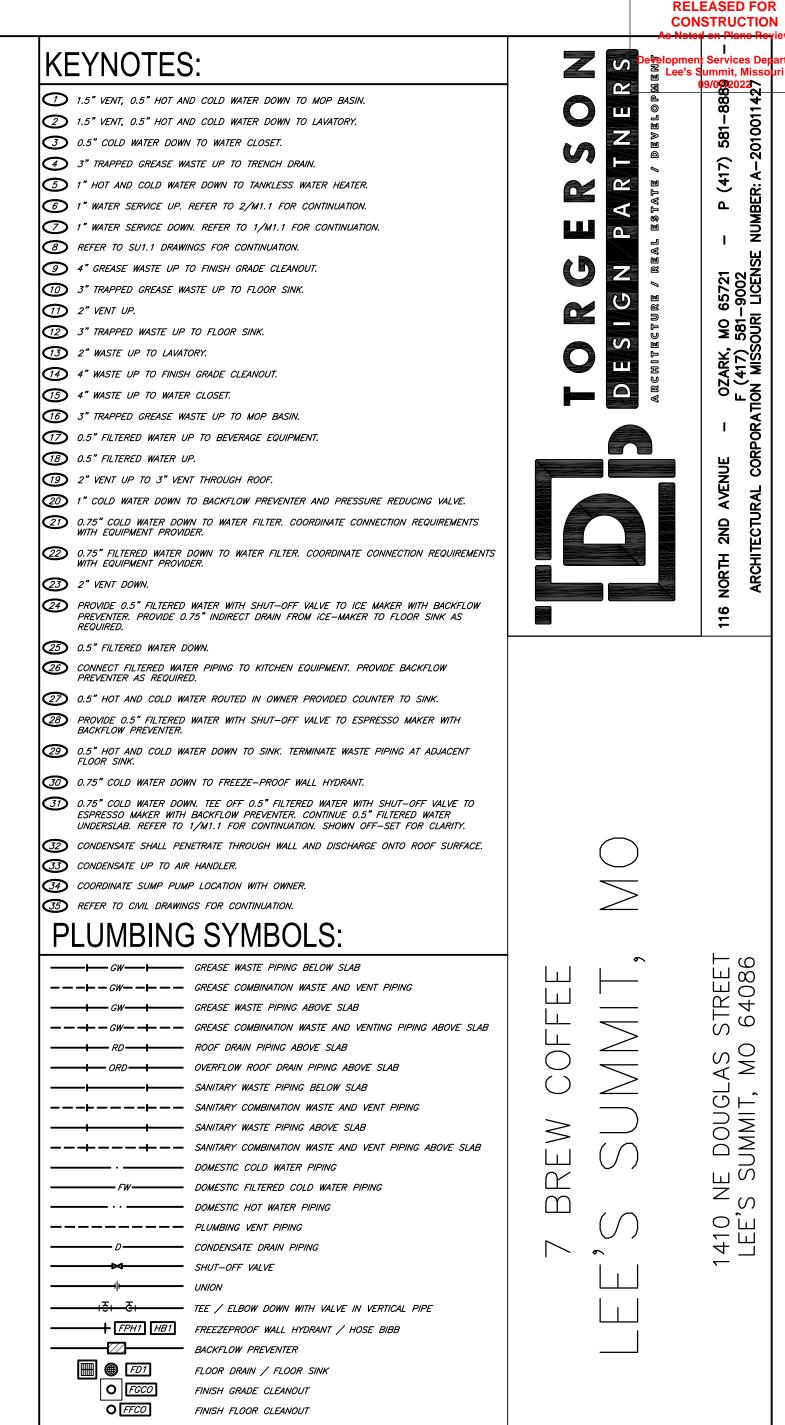


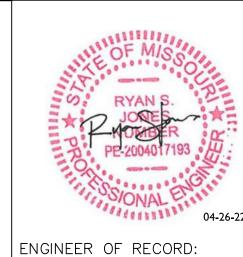












NAME: RYAN JONES LICENSE NO.PE-2004017193

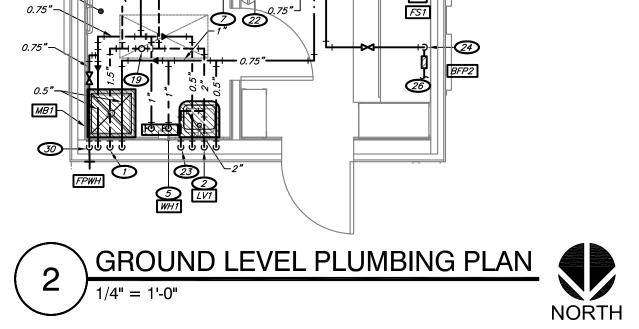
PROJECT NUMBER: 21334 7BSM

REVISION:

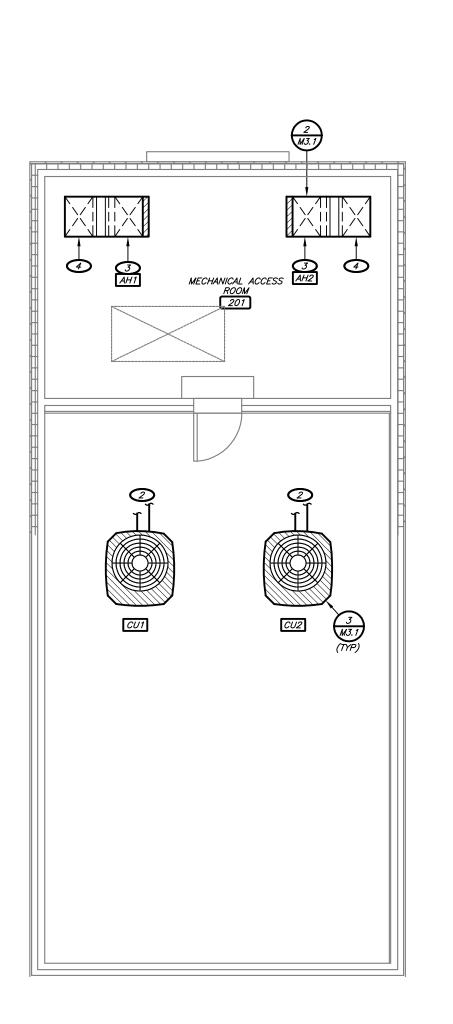
Engineering | Energy | Innovation $2225~\mathrm{West}$ Chesterfield Boulevard, Suite 200, Springfield, MO 65807P: 417.877.1700 F: 417.324.7735 www.cjd-eng.com Missouri State Certificate of Authority #2005026903 Special notice: Drawings prepared by CJD LLC are instruments of service for use solely with respect to this project. CJD LLC retains ownership and all common law, statutory law and other reserved rights including copyrights. This drawing shall not be reused in part or in full for any other work without prior written consent by and appropriate compensation to CJD LLC. Whoseever changes the design without prior written approved from CJD LLC, does so at their own risk and assumes full responsibility for any damages, liabilities or costs resulting directly or indirectly from such changes to the fullest extent of the law.

PLUMBING PLAN

DATE: APRIL 26, 2022

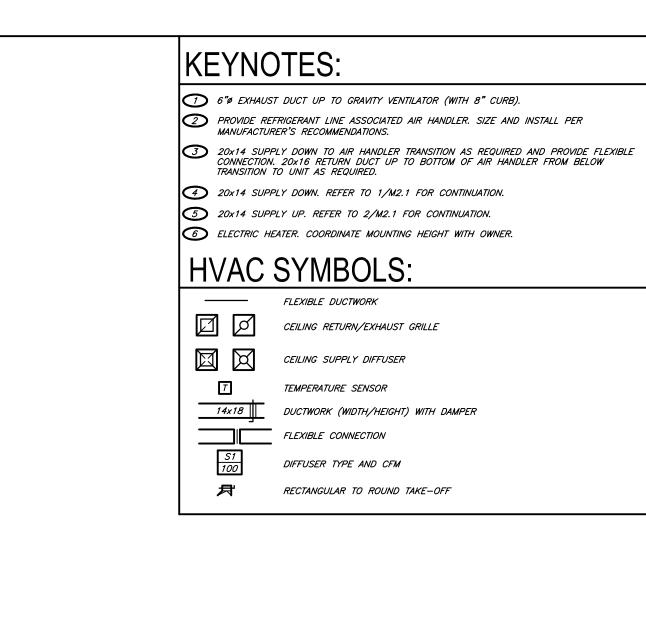


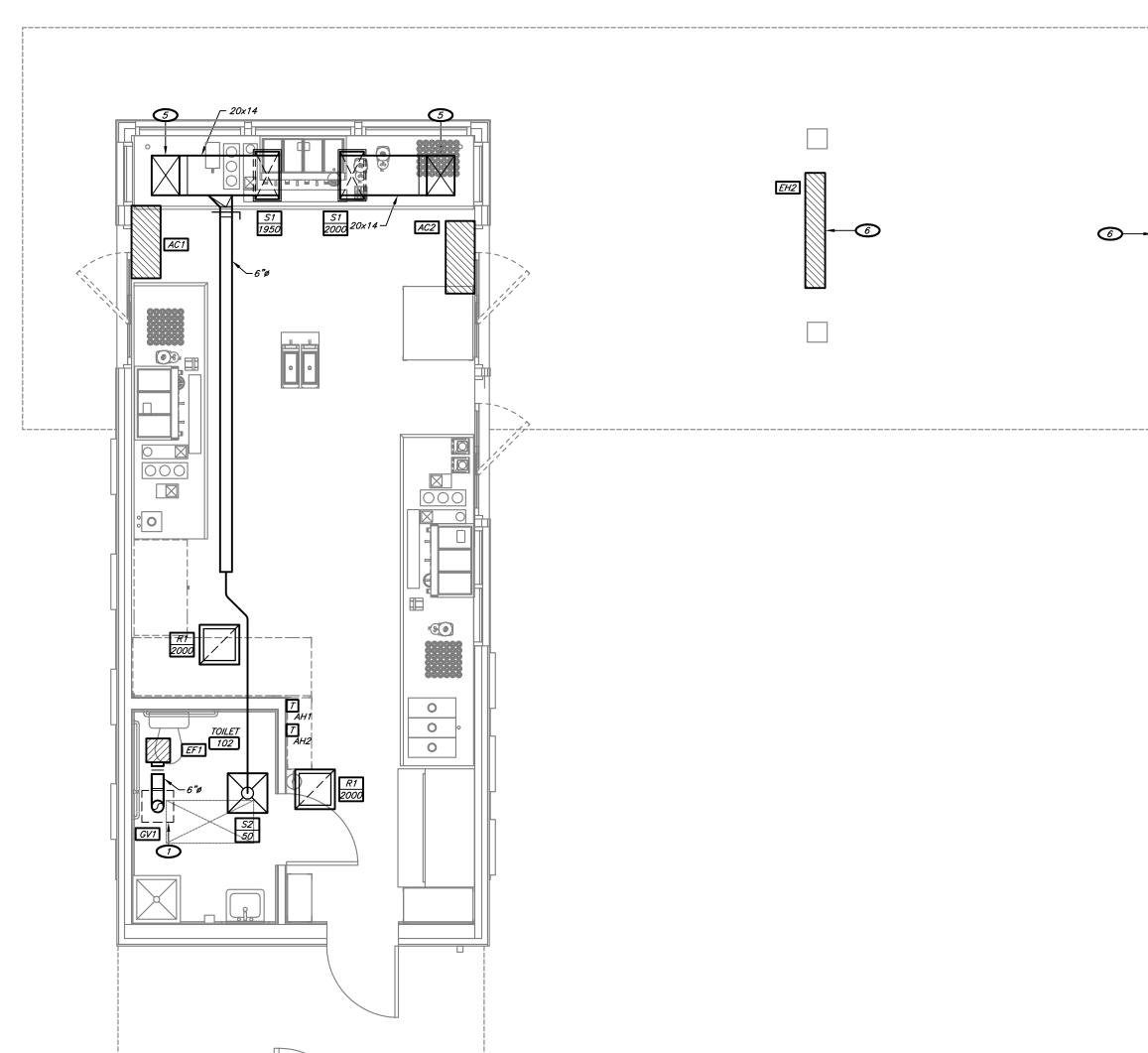
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PARTIAL ROOF AND ATTIC HVAC PLAN





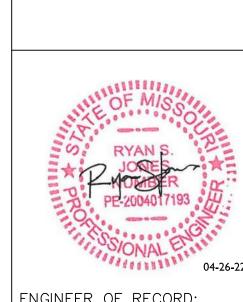


GROUND LEVEL HVAC PLAN

1/4" = 1'-0"

NORTH

CONSTRUCTION



ENGINEER OF RECORD: NAME: RYAN JONES LICENSE NO.PE-2004017193

PROJECT NUMBER: 21334 7BSM

REVISION:

Engineering | Energy | Innovation 2225 West Chesterfield Boulevard, Suite 200, Springfield, MO 65807 P: 417.877.1700 F: 417.324.7735 www.cjd-eng.com Missouri State Certificate of Authority #2005026903

M2.1HVAC PLAN

PIPING MATERIAL SCHEDULE													
			PIPI	NG			F	TITTINGS	MAXIMUM WORKING		FIELD TEST		
SYSTEM	SIZE	TYPE	SCHEDULE	GRADE	ASTM	MATERIAL	MATERIAL	TYPE	PRESSURE (PSI)	TEMP (DEG. F)	PRESSURE (PSI)	TIME (HOURS)	NOTES
DOMESTIC WATER ABOVE AND BELOW GRADE	0.5"-2"	PEX	-	-	A877	PEX	BRONZE	MJ	120	40-180	150	1	-
GREASE WASTE AND VENT ABOVE GRADE	ALL	DWV	40	-	2665	PVC	PVC	DR/SW	10 FT	50-180	10 FT	1	1
GREASE WASTE BELOW GRADE	ALL	DWV	40	-	2665	PVC	PVC	DR/SW	10 FT	50-180	10 FT	1	1
SANITARY WASTE BELOW GRADE	ALL	DWV	40	-	2665	PVC	PVC	DR/SW	10 FT	50-180	10 FT	1	1
SANITARY WASTE & VENT ABOVE GRADE	ALL	DWV	40	-	2665	PVC	PVC	DR/SW	10 FT	50-180	10 FT	1	1
TEMPERATURE & PRESSURE RELIEF DRAIN	ALL	М	-	-	B88	COPPER	COPPER	DR/SJ	10 FT	40-70	10 FT	1	-

. USE OF CELLULAR CORE DWV PIPING IS STRICTLY PROHIBITED.

ABBREVIATIONS: CI - CAST IRON

CS - CARBON STEEL CW - CONTINUOUS WELD DI - DUCTILE IRON

DR - DRAINAGE FITTING DWV - DRAINAGE WASTE AND VENT MI - MALLEABLE IRON MJ - MECHANICAL JOINT

NH - NO-HUB - 95-5 TIN-ANTIMONY SOLDER JOINT - STANDARD STRENGTH / SERVICE WEIGHT SW - SOLVENT WELD

			PLUM	BING FIXTURE & EQUIPMENT SCHED	ULE					
					PIF	PING CONN	ECTION SIZI			
MARK	DESCRIPTION	MANUFACTURER	MODEL NUMBER	ACCESSORIES	COLD WATER	HOT WATER	WASTE	VENT	NOTES	EQUIVALENT MANUFACTURERS
BFP1	BACK FLOW PREVENTER	WATTS	LF009	LEAD FREE BNRONZE CONSTRUCTION, TWO IN LINE INDEPENDENT CHECK VALVES, REPLACEABLE CHECK SEATS WITH AN INTERMEDIATE RELIEF VALVE, AND BALL VALVE TEST COCKS.	1"	-	-	-	-	FEBCO
BFP2	BACKFLOW PREVENTER	WATTS	SD-3	DUAL CHECK VALVE WITH ATMOSPHERIC PORT AND STRAINER FOR CARBONATED BEVERAGE MACHINES	0.5"	-	-	-	-	FEBCO
TD1	FLOOR DRAIN	-	-	CUSTOM STAINLESS STEEL TRENCH DRAIN BY OWNER	-	-	SEE PLAN	SEE PLAN	2	ZURN
TD2	FLOOR DRAIN	-	-	CUSTOM STAINLESS STEEL TRENCH DRAIN BY OWNER		-	SEE PLAN	SEE PLAN	2	ZURN
FGCO	FINISH GRADE CLEANOUT	ZURN	ZN1400-HD	-	-	-	SEE PLAN	-	-	SIOUX CHIEF, SMITH, WADE
FPWH	FREEZE-PROOF WALL HYDRANT	JAY R. SMITH	#5609	NICKEL BRONZE-FACE, KEY OPERATED, INTEGRAL VACUUM BREAKER	0.75"	-	-	-	3	SMITH, WOODFORD
FS1	FLOOR SINK	JAY R. SMITH	#3161	CAST IRON RECEPTOR, A.R.E. INTERIOR 12"x12" NICKEL BRONZE STRAINER, SEDIMENT BUCKET.	-	-	3"	SEE PLAN	1	-
GI1	GREASE INTERCEPTOR	SCHIER	GB-75	75 GPM, 125 GALLON CAPACITY, 616 lbs. GREASE CAPACITY, PEDESTRIAN RATED COVER, PROVIDE 24" COVER RISER.	-	-	4"	-	-	SUBMIT FOR APPROVAL
LV1	WALL HUNG ADA LAVATORY	AMERICAN STANDARD	#355.012	#2385.130 FAUCET, WITH SINGLE METAL LEVER HANDLE #7723.018, 1.25" TAILPIECE AND TRAP, SUPPLIES AND STOP VALVES, INSULATE WITH PROWRAP SEAMLESS MOLDED CLOSED CELL VINYL INSULATION. PROVIDE WATTS LFUSG-B MIXING VALVE.	0.5"	0.5"	2"	1.5"	1,3,	CRANE, KOHLER, TOTO, ZURN
MB1	MOP BASIN	FIAT	MSB-2424	830-AA FAUCET, 838-AA HOSE AND BRACKET, 889-CC MOP HANGER, MSG2424 WALL GUARD	0.5"	0.5"	3"	1.5"	1	STERN WILLIAMS
PRV1	PRESSURE REDUCING VALVE	CASH ACME	EB25	SET TO MAX DELIVERY PRESSURE OF 80-PSI.	SEE PLAN	-	-	-	-	FEBCO, WILKINS
WC1	ADA FLUSH TANK WATER CLOSET	AMERICAN STANDARD	2467.016	1.6 GALLON FLUSH, 16.5" HIGH ELONGATED BOWL, FLOOR MOUNTED, TANK TYPE, VITREOUS CHINA, OPEN FRONT SEAT WITH CHECK HINGE AND LESS COVER. CHROME PLATED ANGLE STOP AND RISER. HANDLE ON WIDE SIDE OF FIXTURE.	0.5"	-	4"	2"	1,4	ELJER, KOHLER, TOTO

- ACCESSORIES SHALL BE SAME MANUFACTURER AS FIXTURE / EQUIPMENT UNLESS NOTED OTHERWISE.
- REFER TO ARCHITECTURAL DRAWINGS FOR MOUNTING HEIGHT. INSTALL ACCESSORIES AS RECOMMENDED BY MANUFACTURER FOR ADA COMPLIANCE.
- FIELD COORDINATE/VERIFY FRAMING ROUGH-IN DIMENSIONS WITH ASSOCIATED CONTRACTOR BEFORE ORDERING. PROVIDE WALL CARRIER OR BRACKET AS RECOMMENDED BY MANUFACTURER FOR WALL MOUNTED INSTALLATION.

PUMP SCHEDULE																	
MARK	MANUFACTURER	SERIES	INLET	DISCH.	GPM	HEAD (FT.)	NPSH	TYPE	WORKING CLASS	H.P.	RPM	VOLTAGE/ PHASE	CONST.	FLUID TYPE	FLUID TEMP.	NOTES/ ACCESS.	EQUIVALENT MANUFACTURERS
SP1	ZOELLER	1043-0006	-	1"	35	20	-	SUMP	-	1/3	-	115/1	CI	WATER	40-140	1	LITTLE GIANT, WEIL

PROVIDE ZOELLER 30-0152 CHECK VALVE INSTALLED ON PUMP DISCHARGE PER MANUFACTURER'S INSTALLATION INSTRUCTIONS.

ABBREVIATIONS: NPSH - NET POSITIVE SUCTION HEAD

CW - CHILLED WATER CHW - CHILLED/HOT WATER

. THERMAL EXPANSION TANK EQUIVALENT TO AMTROL MODEL ST-5

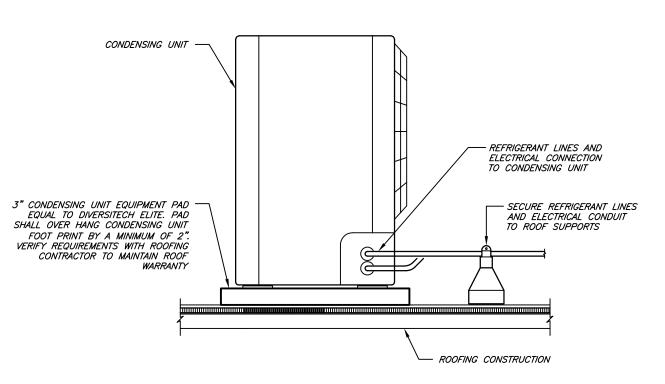
DRAIN VALVE WITH THREADED HOSE CONNECTION

B. PRESSURE & TEMPERATURE RELIEF VALVE

CDW - CONDENSER WATER HW - HEATING HOT WATER DHW - DOMESTIC HOT WATER BFCI - BR

RONZE FITTED CAST IRON	AS	- AQUASTAT KIT
LL BRONZE	BMES	- BASE MOUNTED END SUCTION
LL IRON	IL	- IN-LINE

WATER HEATER SCHEDULE												
MARK	MANUFACTURER	MODEL#	TYPE	GALLON CAPACITY	RECOVERY GPH @ 85F	KW	VOLTAGE/ PHASE	ACCESSORIES				
WH1	RHEEM	RTEX-18	ELEC	-	-	18.0	240/1	1,2,3				
ACCESS	ODIES:											



ROOF MOUNTED CONDENSING UNIT DETAIL NO SCALE

GRAVITY VENTILATOR SCHEDULE DELTA P THROAT AREA FACE AREA FACE VELOCITY NOTES AND (STATIC) MIN (SQ.FT.) MIN (SQ.FT.) (FPM) ACCESSORIES 1.38 54.3 1,2,3,4 COOK PR8 EXHAUST 75 0.1" 0.394 NOTES AND ACCESSORIES: 1. FACTORY FABRICATED INSULATED ROOF CURB WITH CUSTOM HEIGHT OF 14" MINIMUM ABOVE FINISH ROOF SURFACE. PROVIDE COUNTER BALANCE BACKDRAFT DAMPER. PROVIDE ANTI-CONDENSATE COATING.

	AIR I	HANDLE	ER/C	OIL/C	CONDE	NSING	UNIT S	SCHE	DULE	=
AIR HANDLI	ER									
MARK	MANUFACTURER	MODEL#	SA (CFM)	OA (CFM)	EXTERNAL STATIC	ELEC HEAT (KW/STAGES)	VOLTAGE/ PHASE	MCA	МОСР	NOTES
AH1	OMNIGUARD	BCE5E60	1810	-	0.5"	14.4/1	240/1	96	100	1,2,3,4,5
AH2	OMNIGUARD	BCE5E60	1810	-	0.5"	14.4/1	240/1	96	100	1,2,3,4,5
AIR HANDI FR	NOTES:									

EXTERNAL STATIC PRESSURE INCLUDES WET COIL, EXCLUDES FILTER LOSS. PROVIDE FRONT ACCESSIBLE FILTER RACK AND 2" FILTER EQUAL TO FARR 30/30 WITH MERV 7 MINIMUM RATING. PROVIDE SINGLE POINT POWER CONNECTION WITH CIRCUIT BREAKER DISCONNECTING MEANS.

PROVIDE WATER LEVEL MONITORING DEVICE IN DRAIN CONNECTED TO FAN SHUT DOWN RELAY IN AIR HANDLER.

MARK	MANUF	EVAP. COIL MODEL#	COND. UNIT MODEL #	ENTERING AIR DB/WB	SENSIBLE MBH	TOTAL MBH	VOLTAGE/ PHASE	MCA	МОСР	NOTES
CU1	OMNIGUARD	W/ AHU	4AC16L60P-50	80 / 67	45.4	60.5	240/1	29.6	50	1,2,3
CU2	OMNIGUARD	W/ AHU	4AC16L60P-50	80/67	45.4	60.5	240/1	29.6	50	1,2,3

PROVIDE REFRIGERANT LINE SET(S) SIZED PER MANUFACTURER'S RECOMMENDATIONS PROVIDE ALL REFRIGERATION SYSTEM ACCESSORIES REQUIRED BY MANUFACTURER FOR GIVEN LINE SET ROUTING

				AIR (CURT	AIN SO	CHED	ULE				
Λ	<i>IARK</i>	MANUFACTURER	MODEL#	MOUNTING	HEATING (KW)	AMCA LAB AIRFLOW (SCFM)	NOZZLE WIDTH	MAX. VELOCITY @ NOZZLE (FPM)	VOLTAGE/ PHASE	MCA	МОСР	NOTES
	AC1	STRONGWAY	49947	WALL	-	816	36"	3,937	120/1	2.9	15	1 THRU 8
	AC2	STRONGWAY	49947	WALL	-	816	36"	3,937	120/1	2.9	15	1 THRU 8
NO	TEQ.											

PROVIDE FACTORY INSTALLED DISCONNECT.

PROVIDE BIRD SCREEN.

FACTORY INSTALLED UNIT MOUNTED CONTROLS WITH TWO SPEED CONTROL. MAGNETIC DOOR LIMIT SWITCH.

PROVIDE LOW AMBIENT CRANK CASE HEATER (10 DEG. F)

- FACTORY MOUNTED MOTOR CONTROL PANEL
- CLEANABLE FILTER. FIELD COORDINATE EXACT MOUNTING REQUIREMENTS AND PROVIDE ALL REQUIRED ACCESSORIES

PROVIDE ENERGY STAR RATED 7-DAY PROGRAMMABLE THERMOSTAT.

UNIT SHALL BE RATED FOR OUTDOOR CONDITIONS COORDINATE FINISH WITH OWNER.

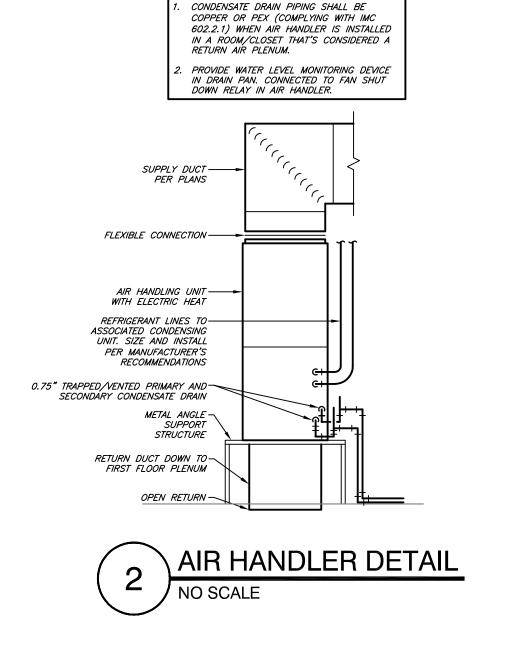
FAN SCHEDULE											
MARK	MANUFACTURER	MODEL#	CFM	ESP (IN. W.C.)	MOUNTING	FINISH	DAMPER	VOLTAGE/ PHASE	MOTOR HP/WATTS	NOTES	
EF1	соок	GC-146	75	0.25"	CEILING	STD	-	120/1	31W	1,2,3	
NOTES:						_					

 FACTORY MOUNTED DISCONNECTING MEANS GRAVITY BACKDRAFT DAMPER. PROVIDE BIRD SCREEN.

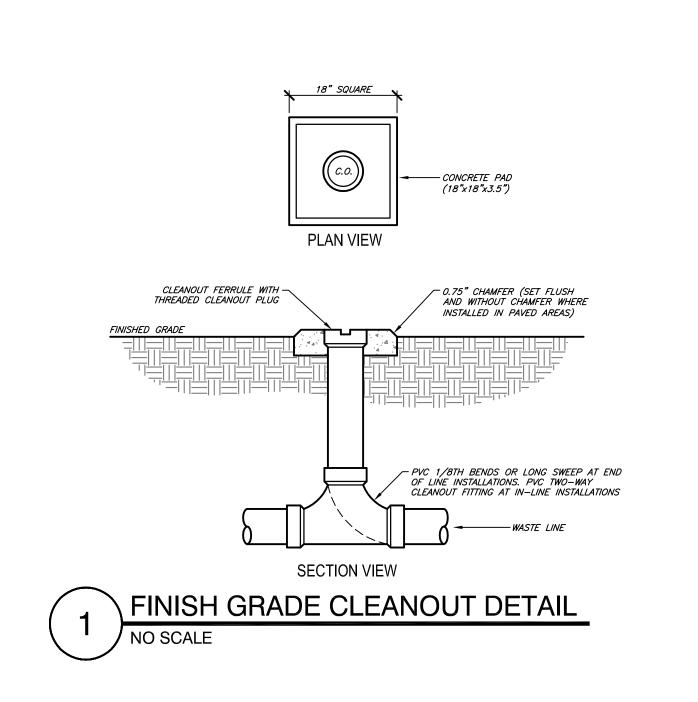
PROVIDE FACTORY MOUNTED DISCONNECTING MEANS.

ELECTRIC HEATER SCHEDULE												
MARK	MANUFACTURER	MODEL#	MOUNTING	FINISH	CFM	HEATING (WATTS)	VOLTAGE/ PHASE	MCA	моср	NOTES		
EH1	INFRATECH	CL3024SS	SUSPENDED	ARCH	-	3000	240/1	12.5	20	1		
EH2	INFRATECH	CL3024SS	SUSPENDED	ARCH	-	3000	240/1	12.5	20	1		
EH3	INFRATECH	CL3024SS	SUSPENDED	ARCH	-	3000	240/1	12.5	20	1		
NOTES:												

AIR DEVICE SCHEDULE											
MANUFACTURER	MODEL#	DUCT CONNECTION SIZE	SERVICE	MODULE SIZE	FRAME	FINISH	DAMPER	MAX. NC	THROW (FT)	DELTA P (STATIC)	NOTES
OWNE	ER PROVIDED	12x24: 0-2000 CFM	SUPPLY	-	SURFACE	WHITE	-	30	20	0.1"	
OWNE	ER PROVIDED	6": 0-75 CFM	SUPPLY	-	SURFACE	WHITE	-	30	20	0.1"	-
OWNER PROVIDED		22x22: 0-2000 CFM	RETURN	-	SURFACE	WHITE	-	30	-	0.1"	-
	OWNE	OWNER PROVIDED OWNER PROVIDED	MANUFACTURER MODEL # DUCT CONNECTION SIZE OWNER PROVIDED 12x24: 0-2000 CFM OWNER PROVIDED 6": 0-75 CFM	MANUFACTURER MODEL # DUCT CONNECTION SIZE SERVICE OWNER PROVIDED 12x24: 0-2000 CFM SUPPLY OWNER PROVIDED 6": 0-75 CFM SUPPLY	MANUFACTURER MODEL# DUCT CONNECTION SIZE SERVICE MODULE SIZE OWNER PROVIDED 12x24: 0-2000 CFM SUPPLY - OWNER PROVIDED 6": 0-75 CFM SUPPLY -	MANUFACTURER MODEL # DUCT CONNECTION SIZE SERVICE MODULE SIZE FRAME OWNER PROVIDED 12x24: 0-2000 CFM SUPPLY - SURFACE OWNER PROVIDED 6": 0-75 CFM SUPPLY - SURFACE	MANUFACTURER MODEL# DUCT CONNECTION SIZE SERVICE MODULE SIZE FRAME FINISH OWNER PROVIDED 12x24: 0-2000 CFM SUPPLY - SURFACE WHITE OWNER PROVIDED 6": 0-75 CFM SUPPLY - SURFACE WHITE	MANUFACTURER MODEL# DUCT CONNECTION SIZE SERVICE MODULE SIZE FRAME FINISH DAMPER OWNER PROVIDED 12x24: 0-2000 CFM SUPPLY - SURFACE WHITE - OWNER PROVIDED 6": 0-75 CFM SUPPLY - SURFACE WHITE -	MANUFACTURER MODEL# DUCT CONNECTION SIZE SERVICE MODULE SIZE FRAME FINISH DAMPER MAX. NC OWNER PROVIDED 12x24: 0-2000 CFM SUPPLY - SURFACE WHITE - 30 OWNER PROVIDED 6": 0-75 CFM SUPPLY - SURFACE WHITE - 30	MANUFACTURER MODEL # DUCT CONNECTION SIZE SERVICE MODULE SIZE FRAME FINISH DAMPER MAX. THROW (FT) OWNER PROVIDED 12x24: 0-2000 CFM SUPPLY - SURFACE WHITE - 30 20 Contact the contac	MANUFACTURER MODEL # DUCT CONNECTION SIZE SERVICE MODULE SIZE FRAME FINISH DAMPER MAX. NC THROW (FT) DELTA P (STATIC) OWNER PROVIDED 12x24: 0-2000 CFM SUPPLY - SURFACE WHITE - 30 20 0.1" OWNER PROVIDED 6": 0-75 CFM SUPPLY - SURFACE WHITE - 30 20 0.1"



SPECIAL NOTE:



GENERAL MECHANICAL NOTES: GENERAL MECHANICAL NOTES:

GENERAL MECHANICAL NOTES APPLY TO ALL MECHANICAL SHEETS. CJD ENGINEERING LLC, BEING THE AUTHOR OF THESE CONSTRUCTION DOCUMENTS RESERVES THE RIGHT OF FINAL INTERPRETATION AS TO THEIR INTENT AND MEANING. ANY ADDITIONAL WORK OR COSTS RESULTING FROM THE CONTRACTOR'S OWN INTERPRETATION

AS TO THE INTENT OR MEANING WITHOUT CONSULTATION WITH CJD ENGINEERING LLC SHALL

- BE THE RESPONSIBILITY OF THE CONTRACTOR AT NO COST TO OWNER OR A/E. THE INTENT OF THE WORK INDICATED ON THESE CONSTRUCTION DOCUMENTS IS TO PROVIDE A FULLY FUNCTIONING SYSTEM IN COMPLETE WORKING ORDER. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR AND THE CONTRACTOR'S SUPPLIERS TO INCLUDE ALL ACCESSORIES, COMPONENTS, PARTS, ETC. THAT MAY NOT BE INDICATED ON THESE CONSTRUCTION DOCUMENTS TO PROVIDE BUILDING CODE COMPLIANT SYSTEMS AND EQUIPMENT THAT OPERATE SATISFACTORILY AS DESIGNED AND INTENDED.
- DRAWINGS ARE NOT SET UP SPECIFICALLY ACCORDING TO TRADE AND EACH CONTRACTOR AND SUB-CONTRACTOR OR TRADE IS REQUIRED TO REVIEW THE CONSTRUCTION

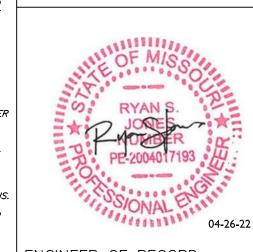
 DOCUMENTS AS A WHOLE AND PROVIDE ANY MISC. ITEMS, MATERIALS, WORK, ETC. REQUIRED TO COMPLETE THE WORK AS SHOWN ON ALL DOCUMENTS. THIS REQUIREMENT APPLIES TO ALL TRADES. STRUCTURAL, MECHANICAL, ELECTRICAL, AND PLUMBING
- REQUIREMENTS AND RELATED WORK ARE INDICATED THROUGHOUT THE DOCUMENTS AND SHOULD BE REVIEWED WITH EACH FOR OVERALL SCOPE OF WORK. ALL MECHANICAL WORK SHALL BE PERFORMED BY LICENSED PLUMBING AND MECHANICAL
- CONTRACTORS AND SHALL BE IN ACCORDANCE WITH REQUIREMENTS OF THE 2018 INTERNATIONAL BUILDING, PLUMBING, FUEL GAS AND MECHANICAL CODES, AND ALL APPLICABLE LOCAL CODES AS ADOPTED BY LOCAL AUTHORITIES.
- THE CONTRACTOR SHALL INCLUDE ALL PERMIT AND INSPECTION FEES IN BID. THE PLANS ARE DIAGRAMMATIC AND SHALL NOT BE SCALED. REFER TO CIVIL, STRUCTURAL, AND ARCHITECTURAL DRAWINGS AND EXISTING CONDITIONS FOR DIMENSIONS. FIELD VERIFY
- PIPING AND DUCTWORK LAYOUTS ARE DIAGRAMMATIC. FIELD COORDINATE EXACT LOCATIONS AND ROUTINGS WITH STRUCTURE, LIGHT FIXTURES, CONDUITS, ETC. FINAL RESULT SHALL BE EQUIVALENT TO THAT INDICATED ON DRAWINGS.
- COOPERATE CLOSELY WITH ALL OTHER TRADES TO EXPEDITE CONSTRUCTION AND AVOID INTERFERENCES AND CONFLICTS. BEFORE ANY PIPING, DUCTWORK, CONDUIT, ETC. IS
- INSTALLED, IT SHALL BE COORDINATED CAREFULLY BETWEEN ALL TRADES.
- MAINTAIN ALL CLEARANCES REQUIRED BY PLUMBING AND HVAC EQUIPMENT. COORDINATE WITH ELECTRICAL CONTRACTOR TO MAINTAIN ALL CLEARANCES REQUIRED FOR EQUIPMENT. DO NOT ROUTE PIPING, DUCTWORK, ETC. ABOVE ELECTRICAL PANELS.
- DRAWINGS REPRESENT FINAL RESULT. REMOVE, RELOCATE, MODIFY EXISTING EQUIPMENT, DUCTWORK, PIPING, ETC. AS REQUIRED. FIELD VERIFY EXISTING CONDITIONS AND EXACT REQUIREMENTS. NO EXTRAS WILL BE PAID DUE TO UNANTICIPATED EXISTING CONDITIONS. 12. IF CONTRACTOR WISHES TO INCORPORATE PRODUCTS OTHER THAN THOSE NAMED IN SPECIFICATIONS IN HIS BID OR PRODUCTS BY MANUFACTURERS OTHER THAN THOSE LISTED
- AS APPROVED MANUFACTURERS, THE CONTRACTOR SHALL SUBMIT A WRITTEN REQUEST FOR REVIEW AND APPROVAL OF PROPOSED SUBSTITUTIONS TO CJD ENGINEERING LLC NOT LES THAN FIVE WORKING DAYS PRIOR TO BID DATE. APPROVAL OR ACCEPTANCE OF PROPOSED SUBSTITUTION OF MANUFACTURERS OR ITEMS IS FOR THE PURPOSES OF BIDDING ONLY AND DOES NOT RELIEVE THE PROPOSED SUBSTITUTION FROM THE SUBMITTAL/SHOP DRAWING REVIEW AND DOES NOT CONSTITUTE PRIOR APPROVAL OF PROPOSED
- 5. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE COSTS OF LARGER WIRING, CONDUIT, ENCLOSURES, CONTROL AND OVERCURRENT PROTECTIVE DEVICES, ETC. RESULTING FROM SUBSTITUTION OF EQUIPMENT OTHER THAN THAT WHICH WAS THE BASIS OF DESIGN AT NO COST TO OWNER OR A/E.
- THE CONTRACTOR SHALL PROVIDE ELECTRONIC SHOP DRAWINGS/SUBMITTALS OF ALL FIXTURES AND EQUIPMENT FURNISHED UNDER THIS CONTRACT.
- THE CONTRACTOR SHALL PERFORM A PRELIMINARY FUNCTIONAL TEST AND BALANCE FOR ALL EQUIPMENT INSTALLED UNDER THIS CONTRACT. THE CONTRACTOR SHALL THEN OBTAIN THE SERVICES OF AN INDEPENDENT FIRM CERTIFIED WITH ASSOCIATED AIR BALANCING COUNCIL OR NATIONAL ENVIRONMENTAL BALANCING BUREAU TO PERFORM THE HVAC SYSTEM TESTING AND BALANCING IN ACCORDANCE WITH AABC OR NEBB NATIONAL
- THE CONTRACTOR SHALL GUARANTEE ALL EQUIPMENT, ACCESSORIES, AND MATERIAL FURNISHED BY HIM FOR A PERIOD OF ONE YEAR FROM FINAL ACCEPTANCE AGAINST ALL
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR ENSURING COSTS TO CUT, PATCH AND REPAIR EXISTING WALL, FLOOR AND CEILING CONSTRUCTION AS REQUIRED TO INSTALL NEW PLUMBING FIXTURES, DUCTWORK, EQUIPMENT, PIPING, ETC. ARE INCLUDED IN THE BID

- ALL SHUTOFF VALVES ON DOMESTIC WATER SHALL BE BRONZE FULL-PORT BALL VALVE
- P-TRAPS SHALL INCLUDE INTEGRAL CLEANOUT.
- DUCT CONSTRUCTION: ALL DUCTWORK SHALL BE FABRICATED OF G90 GALVANIZED STEEL AND INSTALLED IN
- ACCORDANCE WITH THE SMACNA HVAC DUCT CONSTRUCTION STANDARDS METAL AND FLEXIBLE MANUAL. ALL SUPPLY AND RETURN AIR DUCT PRESSURE CLASSES SHALL BE THE SAME AS THE EXTERNAL STATIC PRESSURE OF THE EQUIPMENT SUPPLYING THE DUCT. THE EQUIPMENT ESP SHALL BE THE PRESSURE CLASS FOR THE ENTIRE SUPPLY DUCT SYSTEM. CONCEALED ROUND SUPPLY AIR DUCT — 3" PRESSURE CLASS OR LESS: GALVANIZED SNAP—LOCK PIPE WITH TRANSVERSE JOINTS AND CONNECTIONS SEALED. WRAP SUPPLY AND
- OUTSIDE AIR DUCTS WITH SPECIFIED INSULATION. CONCEALED ROUND RETURN AND EXHAUST DUCT — 3" PRESSURE CLASS OR LESS: GALVANIZED SNAP—LOCK PIPE WITH TRANSVERSE JOINTS AND CONNECTIONS SEALED WITH
- SPECIFIED INSULATION. RECTANGULAR SUPPLY AND RETURN AIR DUCT: — 3" PRESSURE CLASS OR LESS: GALVANIZED SHEET METAL. LINE SUPPLY, RETURN, OUTDOOR AIR AND MAKE—UP AIR DUCTWORK WITH SPECIFIED INSULATION.
- FLEXIBLE DUCTWORK: FLEXMASTER USA TYPE 8B, UL 181 CLASS 1 RATED PRE-INSULATED ACOUSTICAL FLEX DUCT WITH MECHANICAL LOCK HELIX CONSTRUCTION, 25/50 FLAME SMOKE RATING, AND R-6.0 THERMAL BARRIER. RUNS OF FLEXIBLE DUCT SHALL NOT EXCEED 5 LINEAR FEET. FLEXIBLE DUCT SHALL NOT BE USED ON SYSTEMS WITH PRESSURE CLASS GREATER THAN 1".
- EXTERIOR DUCTWORK SHALL HAVE FLANGED AND GASKETED JOINTS BY DUCTMATE OR
- ALL METAL DUCTWORK SPECIFIED TO RECEIVE INTERIOR THERMAL AND ACOUSTICAL LINER IS NOT SIZED ON PLANS TO INCLUDE THE PROPER THICKNESS OF INSULATION. PROVIDE ADDITIONAL HEIGHT AND WIDTH OF DUCTWORK TO ACCOMMODATE THICKNESS OF INSULATION DUCT INSULATION:
- RECTANGULAR DUCT (LOCATED WITHIN CONDITIONED SPACE): 1.0" THICK, 2.0 LB. DENSITY DUCT LINER. MINIMUM R-VALUE OF 6.0. ROUND DUCT: WRAP WITH 2", 1.0 LB DENSITY FIBERGLASS DUCT WRAP WITH FOIL—SCRIM—KRAFT FACING. MINIMUM R—VALUE OF 6.0.
- ALL DUCTWORK LOCATED WITHIN AN ATTIC OR UNCONDITIONED SPACE SHALL BE WRAPPED TO PROVIDE A MINIMUM INSULATION VALUE OF R-8. ROUND TAKE—OFF FITTINGS FROM RECTANGULAR DUCTWORK SHALL BE MADE WITH BUCKLEY AIR PRODUCTS MODEL 3300 AND 3300D RECTANGULAR TO ROUND BOOT FITTINGS FITTINGS
- WITH INTEGRAL VOLUME DAMPERS AND INSULATION STAND-OFFS WHERE INDICATED.

 EQUIVALENT BY AIR-TITE AND CROWN. PROVIDE AERO-DYNE OR EQUIVALENT DOUBLE WALL TURNING VANES IN ALL RECTANGULAR
- BRANCH DUCTS SHALL BE THE SAME SIZE AS DIFFUSER NECK UNLESS NOTED OTHERWISE.
- EQUIVALENT WATER HEATERS BY A.O. SMITH, BRADFORD WHITE, LOCHINVAR, RHEEM, STATE, OR OTHERS WITH PRIOR APPROVAL.
- EQUIVALENT GRILLES, DIFFUSERS AND REGISTERS BY CARNES, KRUEGER, NAILOR, PRICE, TITUS, HART & COOLEY, TUTTLE & BAILEY, OR OTHERS WITH PRIOR APPROVAL. EQUIVALENT EXHAUST FANS BY ACME, COOK, GREENHECK, PENN, OR OTHERS WITH PRIOR
- EQUIVALENT FURNACES, EVAPORATOR COILS AND CONDENSING UNITS BY CARRIER, TRANE AND YORK, AND SHALL BE THE PRODUCT OF A SINGLE MANUFACTURER. **EXECUTION**
- PROVIDE ALL ACCESSORIES, COMPONENTS, ETC. REQUIRED FOR COMPLETE INSTALLATION OF
- PROVIDE UNISTRUTS AND ACCESSORIES AS REQUIRED FOR SUPPORT OF PIPING, EQUIPMENT CONTRACTOR SHALL MAKE ALL FINAL CONNECTIONS TO EQUIPMENT. PROVIDE ADAPTERS, FITTINGS, ETC. FOR ALL EQUIPMENT AS REQUIRED. COORDINATE SPECIFIC REQUIREMENTS WITH EQUIPMENT SUPPLIERS. REFER TO SPECIAL EQUIPMENT DRAWINGS FOR ADDITIONAL
- INSULATE ALL DOMESTIC WATER AND REFRIGERANT PIPING WITH 1/2" THICK ARMACELL AP/ARMAFLEX FLEXIBLE ELASTOMERIC THERMAL PIPE INSULATION. EQUIVALENT BY RUBATEX. THE USE OF TUBOLIT OR EQUIVALENT CLOSED CELL POLYETHYLENE FOAM INSULATION IS
- INSTALL TRAPS AT WASTE CONNECTIONS TO ALL FLOOR DRAINS AND OTHER PLUMBING FIXTURES WITHOUT A TRAP INTEGRAL TO THE FIXTURE.
- INSTALL WATER AND WASTE PIPING BELOW SLAB AND BELOW GRADE ON TOP OF A 6" BED OF PEA GRAVEL, WITH 6" PEA GRAVEL ON SIDES AND TOP OF PIPING.
- PROVIDE TRAPPED AND VENTED CONDENSATE DRAIN CONNECTION TO ALL HVAC EQUIPMENT WHERE REQUIRED. EXTEND FULL SIZE TO NEAREST ROOF DRAIN, FLOOR DRAIN, OR MOP SEAL ALL DUCTWORK IN ACCORDANCE WITH THE LATEST SMACNA METAL AND FLEXIBLE
- DUCT CONSTRUCTION STANDARDS MANUAL. AT A MINIMUM, LOW STATIC PRESSURE DUCTS SHALL BE SEALED WITH WATER, SOLVENT OR SILICONE BASED SEALANT IN ACCORDANCE WITH SMACNA DUCT SEAL CLASS C. THE USE OF DUCT TAPE IS STRICTLY PROHIBITED. ALL THERMOSTATS, SENSORS, DAMPER CONTROLS, ASSOCIATED ACCESSORIES, AND FINAL WIRING CONNECTIONS SHALL BE PROVIDED BY HVAC CONTRACTOR. ROUGH—IN AND WIRE
- INSTALLATION SHALL BE PROVIDED BY ELECTRICAL CONTRACTOR. PROVIDE HVAC EQUIPMENT WITH NEW FILTERS DURING CONSTRUCTION AND UPON
- COORDINATE CEILING DIFFUSER/GRILLE LOCATIONS WITH ARCHITECTURAL REFLECTED CEILING

SUBSTANTIAL COMPLETION.

- PROVIDE FLEXIBLE CONNECTION AND TRANSITION TO UNIT OPENING SIZES FOR ALL HVAC
- INSTALL ALL ROOF EQUIPMENT, PIPE, CONDUIT AND DUCTWORK SUPPORTS, CURBS AND PENETRATIONS IN ACCORDANCE WITH THE REQUIREMENTS OF THE ROOFING SYSTEM MANUFACTURER.
- . PROVIDE FACTORY FABRICATED PIPE CURB ASSEMBLIES FOR MULTIPLE CONDUIT AND PIPING PENETRATIONS THROUGH THE ROOF. PIPE CURB ASSEMBLIES SHALL BE FACTORY FABRICATED, 8" TALL (MINIMUM) GALVANIZED STEEL ROOF CURBS WITH INTEGRAL BASE PLATE, 3 LB. DENSITY INSULATION, WOOD NAILER, ACRYLIC CLAD THERMOPLASTIC COVER, FASTENING SCREWS, AND GRADUATED STEP BOOTS WITH STAINLESS STEEL CLAMPS AS MANUFACTURED BY PATE, THYBAR OR APPROVED EQUIVALENT. PROVIDE PIPE SEAL ASSEMBLIES FOR INDIVIDUAL CONDUIT OR PIPE PENETRATIONS. ALL WORK SHALL BE IN ACCORDANCE WITH ROOFING MANUFACTURER'S RECOMMENDATIONS AND REQUIREMENTS.
- SUPPORT PIPING ON ROOF WITH PREMANUFACTURERED PIPING SUPPORTS EQUIVALENT TO B-LINE C-SERIES. FIELD FABRICATED SUPPORTS CONSISTING OF LUMBER, ETC. ARE NOT
- PROVIDE SLEEVES AT PIPE PENETRATIONS OF EXTERIOR OR FOUNDATION WALLS. SEAL PENETRATIONS WEATHERTIGHT.
- SEAL ALL PENETRATIONS THROUGH FIRE-RATED ASSEMBLIES AS NECESSARY TO RESTORE FIRE—RESISTANCE RATING OF ASSEMBLY. REFER TO ARCHITECTURAL PLANS AND SPECIFICATIONS FOR RATED ASSEMBLIES, FIRESTOPPING MATERIALS AND REQUIREMENTS. ALL EXPOSED PIPING, DUCTWORK AND EQUIPMENT SHALL BE PRIMED AND PAINTED. REFER
- O ARCHITECTURAL DRAWINGS FOR REQUIREMENTS AND COORDINATE WITH GENERAL O. THE MECHANICAL/PLUMBING CONTRACTOR SHALL SEAL ALL NECESSARY PENETRATIONS OF RATED WALL AND CEILING CONSTRUCTION WITH FIRE CAULK. PROVIDE FIRE PUTTY PAD AROUND LAUNDRY AND ICE—MAKER ROUGH—IN BOXES INSTALLED IN RATED WALL AND CEILING CONSTRUCTION. FIRE CAULK AND PUTTY PADS SHALL BE MANUFACTURED BY 3M
- OR HILTI, AND SHALL BE INSTALLED IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS. . PROVIDE SIOUX CHIEF WATER HAMMER ARRESTERS ON ALL PLUMBING FIXTURES SIZED IN ACCORDANCE WITH PLUMBING AND DRAINAGE INSTITUTE STANDARD P.D.I. WH201. EQUIVALENT BY JONESPEC, J.R. SMITH, OR WADE.



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CONSTRUCTION

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ENGINEER OF RECORD: NAME: RYAN JONES LICENSE NO.PE-2004017193

PROJECT NUMBER: 21334 7BSM

REVISION:



Engineering | Energy | Innovation 2225 West Chesterfield Boulevard, Suite 200, Springfield, MO 65807 P: 417.877.1700 F: 417.324.7735 www.cjd-eng.com Missouri State Certificate of Authority #2005026903 Special notice: Drawings prepared by CJD LLC are instruments of service for use solely with respect to this project. CJD LLC retains ownership and all common law, statutory law and other reserved rights including copyrights. This drawing shall not be reused in part or in full for any other work without prior written consent by and appropriate compensation to CJD LLC. Whosoever changes the design without prior written approval from CJD LLC, does so at their own risk and assumes full responsibility for any damages, liabilities or costs resulting directly or indirectly from such changes to the fullest extent of the law.

SCHEDULES AND **DETAILS DATE:** APRIL 26, 2022



KEYNOTES:

INSTALL RECEPTACLE IN CRAWL SPACE FOR SUMP PUMP. VERIFY LOCATION AND MOUNTING HEIGHT WITH OWNER PRIOR TO ROUGH-IN.

RECEPTACLE TO BE MOUNTED ABOVE CANOPY. VERIFY LOCATION AND MOUNTING HEIGHT WITH OWNER PRIOR TO ROUGH—IN.

3 PROVIDE JUNCTION BOX AND POWER FOR HORTON SLIDING DOOR.

4 RECEPTACLES FOR SECURITY AND AUDIO. 5 PROVIDE JUNCTION BOX AND POWER FOR COOLER CONTROLS/LIGHTS. FIELD VERIFY EXACT

6 PROVIDE JUNCTION BOX AND POWER FOR COOLER EVAPORATOR. FIELD VERIFY EXACT LOCATION AND REQUIREMENTS.

PROVIDE JUNCTION BOX FOR OUTDOOR HEATER CONTROLS 6" ABOVE SLIDING GLASS TELECOMMUNICATIONS OUTLET: ROUGH—IN JUNCTION BOX OR PLASTER RING ONLY. MAY BE USED FOR VOICE, DATA, FAX, MODEM, OR ANY COMBINATION THEREOF. CABLE, COVER PLATE & JACKS PROVIDED BY OTHERS. DOOR. COORDINATE ROUGH-IN AND WIRING REQUIREMENTS WITH OWNER. 8 PROVIDE JUNCTION BOX FOR POWER CONNECTION TO BUILDING LED TAPE LIGHT. REFER TO ARCHITECTURAL ELEVATIONS FOR EXACT LOCATION AND LINEAR FOOTAGE OF FIXTURE. CONNECT POWER TO LED STRIPS PER MANUFACTURE'S INSTRUCTION.

> 9 PROVIDE WEATHER PROOF JUNCTION BOX AND TOGGLE SWITCH LOCATED ON SIGN IN CONCEALED LOCATION FOR EXTERIOR SIGNAGE PER NEC. COORDINATE EXACT LOCATION OF JUNCTION BOX WITH THE SIGNAGE PROVIDER PRIOR TO INSTALLATION. CONTRACTOR SHALL PULL ALL WIRING TO THE JUNCTION BOXES AND MAKE FINAL CONNECTIONS. COORDINATE ALL REQUIREMENTS WITH THE SIGNAGE PROVIDER.

10 INSTALL FIXTURE 12" ABOVE TOP OF DOOR. FIELD VERIFY EXACT LOCATION WITH OWNER. 11) INSTALL FIXTURE 7' ABOVE FINISH FLOOR. FIELD VERIFY MOUNTING HEIGHT WITH OWNER.

2 RECEPTACLE FOR ESPRESSO MACHINE. PROVIDE CORD AND PLUG CONNECTION. 13 POWER CONNECTION FOR AIR CURTAIN. COORDINATE ROUGH-IN, WIRING REQUIREMENTS, AND MOUNTING HEIGHT WITH OWNER.

14) CT CABINET AND METER. 15 COORDINATE INSTALLATION HEIGHT WITH ARCHITECT

16 POWER CONNECTION FOR ELECTRIC HEATER. COORDINATE INSTALLATION HEIGHT WITH

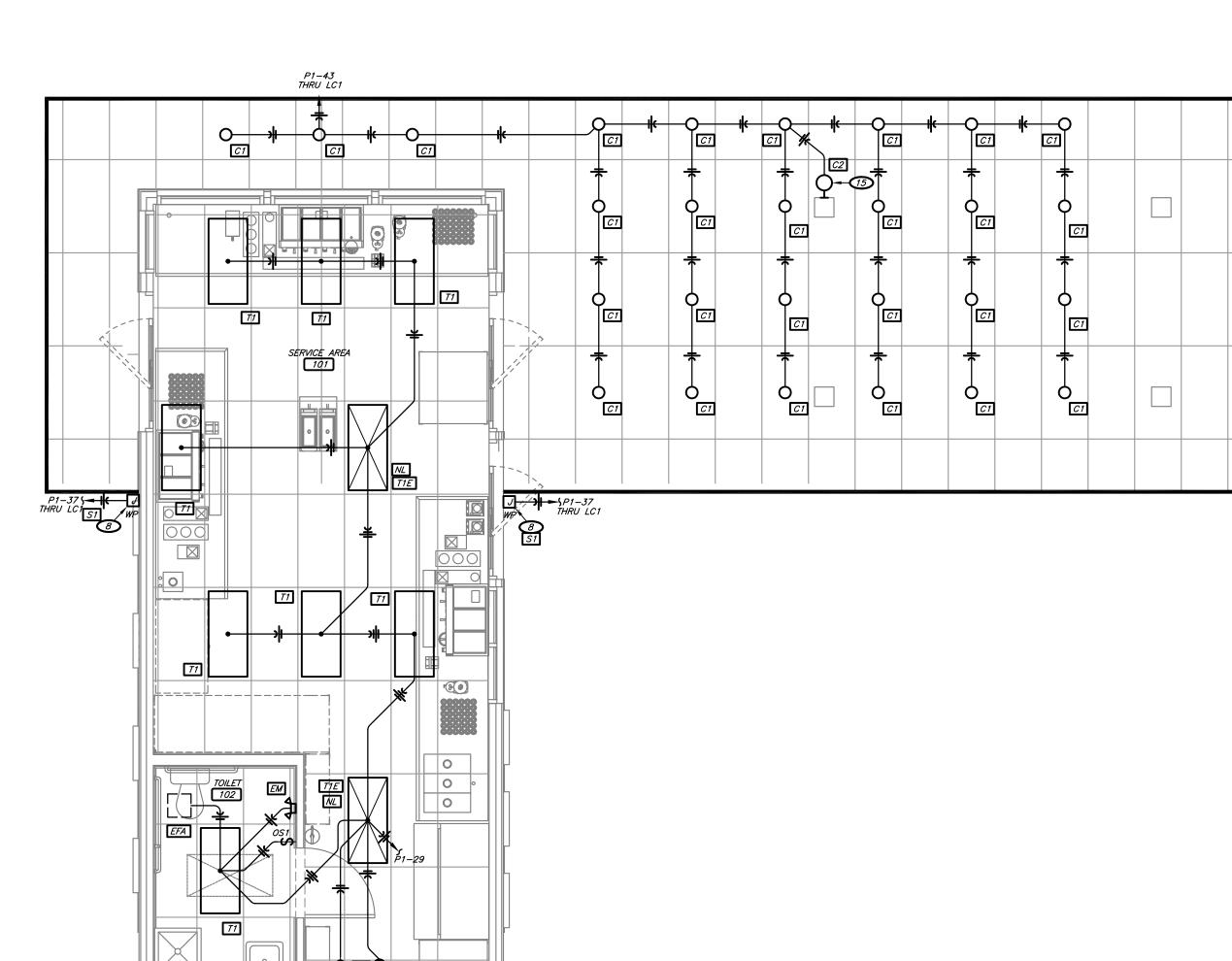
7 RECEPTACLE FOR IPAD. COORDINATE INSTALLATION HEIGHT WITH OWNER.

18) REFER TO 1/SU1.1 FOR CONTINUATION. (2) 2" COMMUNICATION CONDUITS WITH PULL-WIRE. COORDINATE TERMINATION WITH

OWNER PRIOR TO INSTALLATION. 20) COORDINATE LOCATION AND RECEPTACLE TYPE WITH EQUIPMENT PROVIDER.

(2) #8 AND (1) #10 GROUND, IN 0.75" CONDUIT. (2) (2) #3 AND (1) #8 GROUND IN 1.25" CONDUIT.

CONDUIT & CONDUCTOR SCHEDULE:



ELECTRICAL SYMBOLS:

₩P

SIMPLEX RECEPTACLE; 2P, 3W, 20A, 125V

DUPLEX RECEPTACLE; 2P, 3W, 20A, 125V

DUPLEX RECPTACLE; WEATHERPROOF

EXIT/EMERGENCY LIGHT

LED LIGHT FIXTURE

LIGHT SWITCH 3-WAY LIGHT SWITCH

JUNCTION BOX

_ _ _ _ _ CONDUIT BELOW GRADE

——(1)—— FEEDER PER SCHEDULE

DISCONNECT SWITCH

GROUND WIRE

NIGHT LIGHT FIXTURE

OCCUPANCY SENSOR LIGHT SWITCH

LIGHTING & POWER PANELBOARD

INDICATE NUMBER OF CIRCUITS

CEILING MOUNTED OCCUPANCY SENSOR

____ CONDUIT CONCEALED IN CEILING OR WALL

HOME RUN: TICK MARKS INDICATE NUMBER OF WIRES, ARROWS

-O 14-30 SIMPLEX RECEPTACLE; NEMA CONFIGURATION AS INDICATED

DUPLEX RECEPTACLE; MOUNTED @ 42" ABOVE FINISHED FLOOR

DUPLEX RECEPTACLE; MOUNTED 6" ABOVE COUNTERTOP BACKSPLASH

DUPLEX RECEPTACLE W/ GROUND FAULT INTERRUPTER

DOUBLE DUPLEX RECEPTACLE WITH COMMON FACEPLATE

EXIT LIGHT; WALL MOUNTED / CEILING MOUNTED

CABLE TV OUTLET: ROUGH—IN JUNCTION BOX OR PLASTER RING ONLY. CABLE, COVER PLATE & JACKS PROVIDED BY OTHERS.

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CONSTRUCTION

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ENGINEER OF RECORD: NAME: RYAN JONES LICENSE NO.PE-2004017193

PROJECT NUMBER:

21334 7BSM

REVISION:

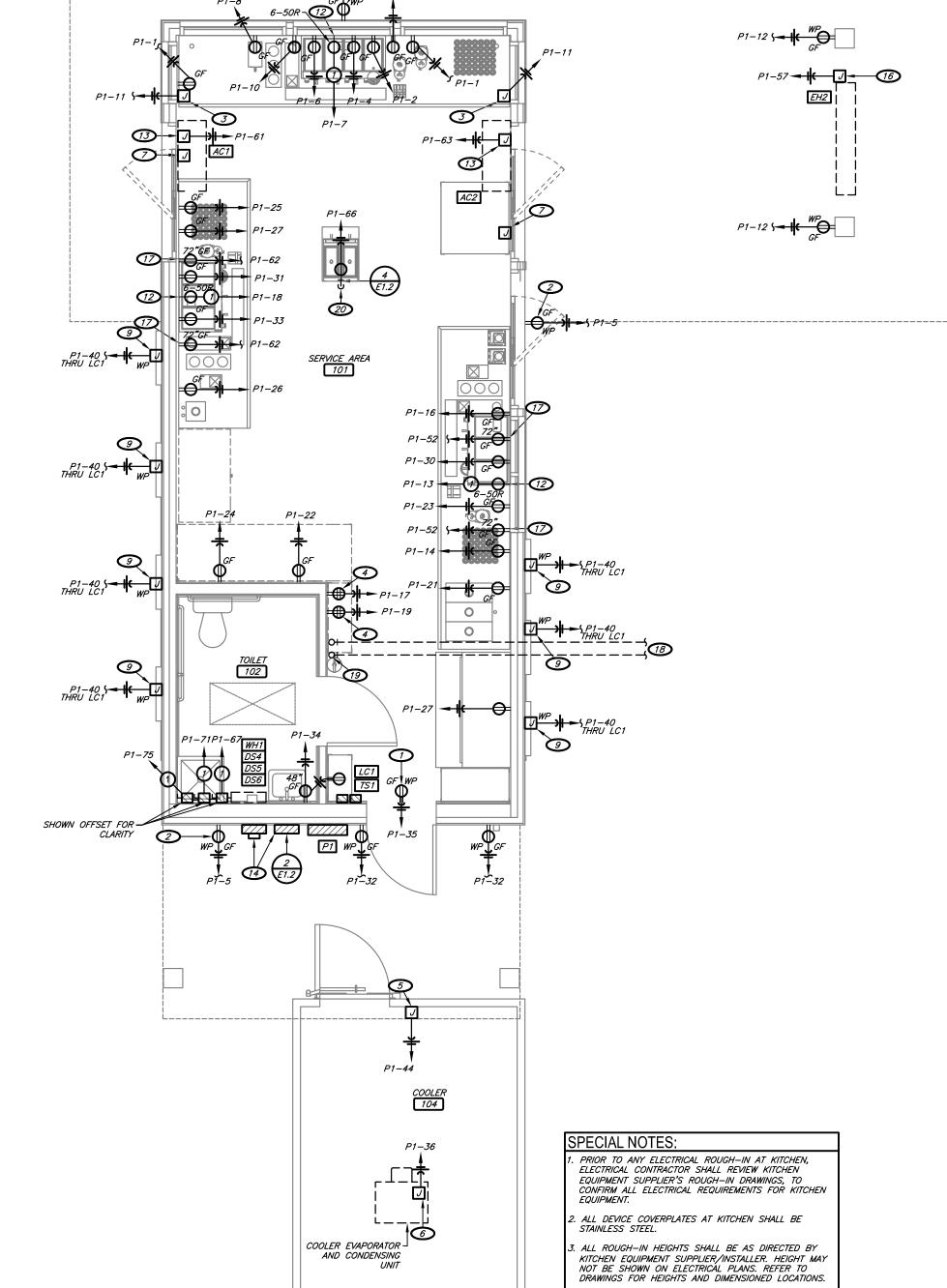
GROUND LEVEL LIGHTING PLAN NORTH

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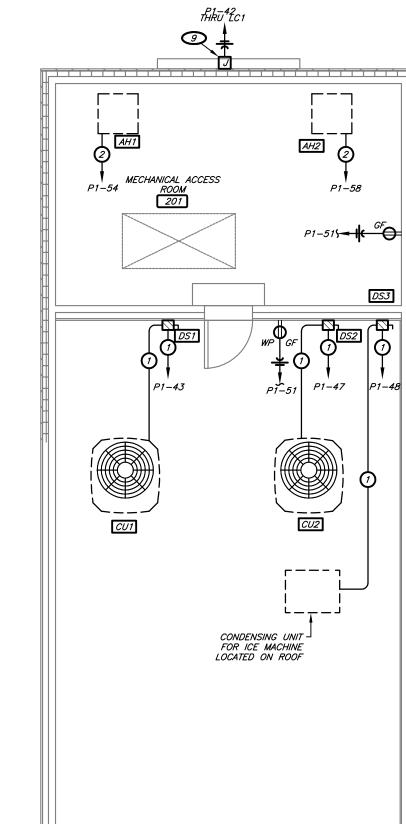
ELECTRICAL PLAN

DATE: APRIL 26, 2022



GROUND LEVEL POWER PLAN

1/4" = 1'-0"





NORTH

ROOF AND ATTIC POWER PLAN

		LIGH	TING FIXT	URE SC	HEDL	JLE					
MADK	MANUIFACTURER	MODEL#	FINICH	MOUNTING		LAMPS		FIXTURE	VOLTAGE	APPROVED	NOTES
MARK	MANUFACTURER	WIODEL#	FINISH	WOONTING	TYPE	CODE	QTY.	WATTS	VOLTAGE	MANUFACTURERS	
T1	WILLIAMS	LP-24-L50/835-DIM-UNV	WHITE	RECESSED	LED	WITH FIXTURE	-	50	UNV	SUBMIT	-
T1E	WILLIAMS	LP-24-L50/835-EM/10WRM-DIM-UNV	WHITE	RECESSED	LED	WITH FIXTURE	-	50	UNV	SUBMIT	-
C1	HALO	SMD6R69SWH	WHITE	SURFACE	LED	WITH FIXTURE	-	10	UNV	SUBMIT	1,2,3,4,6
C2	WAC LIGHTING	DS-WS05-F-B-CC-BK	BLACK	SURFACE	LED	WITH FIXTURE	-	35	UNV	SUBMIT	1,2,4,6
<i>S</i> 1	LED NEONFLEX	LN-11X29-24-RGB	WHITE	SURFACE	LED	WITH FIXTURE	-	1.88/FT	UNV	SUBMIT	1,2,6
S2	WILLIAMS	78-4-L53/830-DIM-UNV	WHITE	SURFACE	LED	WITH FIXTURE	-	35	UNV	SUBMIT	-
PL1	LUMARK	PRV-C25-D-UNV-T3-SA-BZ-HSS	BRONZE	POLE	LED	WITH FIXTURE		96	UNV	SUBMIT	1,4,6,7,8,9
W1E	WILLIAMS	WPAS-L34/850-BZ-PC-EM/6W-UNV	BRONZE	SURFACE	LED	WITH FIXTURE	-	45	UNV	SUBMIT	1,3,6
X1	WILLIAMS	EXIT/EM/LED-R-WHT	WHITE	SURFACE	LED	WITH FIXTURE	-	10	120	SUBMIT	3

FIXTURE SHALL BE LISTED FOR OUTDOOR USE AND SHALL BE LISTED FOR DAMP OR WET LOCATION AS REQUIRED.

COORDINATE WITH ARCHITECT FOR EXACT MOUNTING HEIGHT AND LOCATION.

PROVIDE FIXTURE WITH EMERGENCY BATTERY BACK-UP FOR MINIMUM 90-MINUTES OPERATION. COORDINATE WITH ARCHITECT/OWNER FOR EXACT FINISH.

PROVIDE FIXTURE WITH LUMARK NEMA PHOTOCONTROL OA/RA1014

- SHUNT TRIP

4. COURDINATE WITH ARCHITECT/OWNER FOR EXACT FINISH.
5. REFER TO PLANS AND COORDINATE WITH OWNER/ARCHITECT FOR MOUNTING TYPE, FACE ORIENTATION, AND CHEVRON DIRECTION AS APPLICABLE.

6. FIXTURE LAMP AND BALLAST SHALL BE CAPABLE OF OPERATING DOWN TO 0 DEGREES F AND UP TO 110 DEGREES F AS REQUIRED.
7. PROVIDE 20' STRAIGHT STEEL POLE AND ACCESSORIES AS REQUIRED FOR COMPLETE INSTALLATION.
8. PROVIDE ALL ACCESSORIES AS REQUIRED FOR COMPLETE INSTALLATION. POLE AND ACCESSORIES SHALL BE SAME COLOR AS FICTURE HEAD.

ABBREVIATIONS: OSFCI - OWNER FURNISHED, CONTRACTOR INSTALLED TBD - TO BE DETERMINED

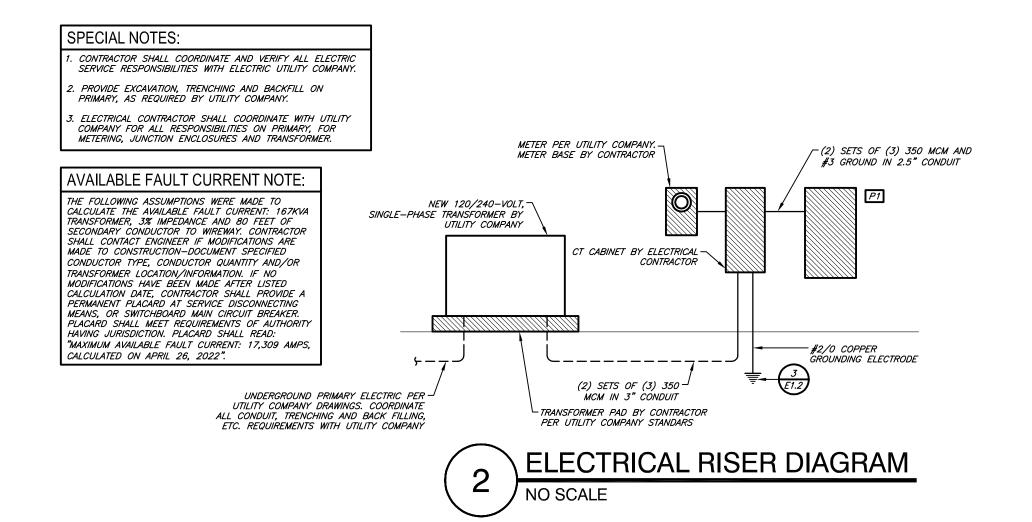
GENERAL NOTES (APPLY TO ALL LIGHT FIXTURES):
1. PROVIDE INSULATION BARRIER, WHERE NON IC-RATED LIGHT FIXTURES ARE INSTALLED WHERE THEY MAY BE CONTACT WITH INSULATION. INSULATION BARRIER SHALL BE EQUAL TO PRODUCTS BY 'E.Z. BARRIER'

OLTAGE: HASE / WIRE: MPS: circ. NO.	120/240 1 /3	POLES:												
MPS:	1 /3					84		MOUNTI	NG:		SUR	FACE	ENCLOSURE:	NEMA 3
CIRC.		KAIC AMPS	(RMS):			22K		LOCATIO	DN:		EXTE	RIOR	MANUFACTURER:	SQUARE
	600	MAIN BREAK	KER / M	ILO:		MLO		FED FRO	DM:	UT	LITY .	XFMR	MODEL:	٨
	EQUIPMENT SERVED		C/B AMPS	C/B POLES	C/B ACC.	LOAD (VA)	PHASE L	OADS (VA)	LOAD (VA)	C/B ACC. C/B	POLES	C/B AMPS	EQUIPMENT SERVED	CIRC. I
1	POINT OF SALE RECEPTACLES		20	1	-	400	1050		650	-	1	20	GRINDER	2
3	FRONT BAR RECEPTACLE		20	1	-	180		830	650	-	1	20	GRINDER	4
5	EXTERIOR RECEPTACLES		20	1	-	540	720		180	-	1	20	FRONT BAR RECEPTACLE	6
7	ESPRESSO MACHINE 4 GROUP		50	2	-	4000		5800	1800	-	1	20	HOT WATER RECEPTACLE	8
9	п				-	4000	5284		1284	-	1	20	ICE MAKER	10
11	HORTON SLIDING DOOR		20	1	-	500		1220	720	-	1	20	EXTERIOR RECEPTACLES	12
13	ESPRESSO MACHINE 3 GROUP		50	2	-	3050	4334		1284	-	1	20	BLENDER	14
15	п				-	3050		4334	1284	-	1	20	ICE MAKER	16
17	SECURITY RECEPTACLES		20	1	-	360	3410		3050	-	2	50	ESPRESSO MACHINE 3 GROUP	18
19	SECURITY RECEPTACLES		20	1	-	360		3410	3050	-			н	20
21	SIDE BAR RECEPTACLE		20	1	-	180	360		180	-	1	20	SERVICE AREA RECEPTACLE	22
23	SIDE BAR RECEPTACLE		20	1	-	180		360	180	-	1	20	SERVICE AREA RECEPTACLE	24
25	SIDE BAR RECEPTACLE		20	1	-	180	1464		1284	-	1	20	BLENDER	26
27	ICE MAKER		20	1	-	1284		1554	270	-	1	20	EXTERIOR LIGHTS	28
29	INTERIOR LIGHTS		20	1	-	700	1984		1284	-	1	20	BLENDER	30
31	SIDE BAR RECEPTACLE		20	1	-	180		540	360	-	1	20	EXTERIOR RECEPTACLES	32
33	BLENDER		20	1	-	1284	1644		360	-	1	20	BATHROOM RECEPTACLE	3.
35	CRAWL SPACE RECEPTACLE		20	1	-	180		970	790	HACR	2	20	WALK IN COOLER	30
37	EXTERIOR LED LIGHTS		20	1	-	500	1290		790				п	3
39	SPARE		20	1	-			1200	1200	-	1	20	BUILDING SIGNAGE	4
41	SPARE		20	1	-		1200		1200	-	1	20	BUILDING SIGNAGE	4.
43	CONDENSING UNIT CU1		50	2	HACR	3078	,	3278	200	-	1	20	COOLER LIGHT	4
45	н					3078	3218	02.0	140	HACR	1	15	ICE MACHINE	4
47	CONDENSING UNIT CU2		50	2	HACR	3078	32,6	6918	3840	HACR	2	40	REMOTE CONDENSING UNIT	4
49	и					3078	6918	0010	3840				и	5
51	MECHANICAL ACCESS RECEPTACLE		20	1	-	360		720	360	-	1	20	IPAD RECEPTACLES	5.
53	ELECTRIC HEATER EH1		20	2	_	1500	11484	720	9984	HACR	2	100	AIR HANDLER AH1	5-
55	п					1500	11101	11484	9984				н	5
57	ELECTRIC HEATER EH2		20	2	_	1500	11484	11404	9984	HACR	2	100	AIR HANDLER AH2	5
59	и		20	1	_	1500	11101	11484	9984				"	6
61	AIR CURTAIN AC1		15	1	HACR	768	1128	11404	360		1	20	IPAD RECEPTACLES	6
63	AIR CURTAIN AC2		15	1	HACR	768	1120	1068	300	_	1	20	SITE LIGHTING	6-
65	SPARE		20	1	-	700	0	1000	300	-	1	20	SPARE	60
	WATER HEATER WH1		40	2	_	4000	0	4000		-	•		SPARE	
67	"		1 40		-	4000	4000	4000		-	1	20		68
69	WATER LEATER WILL		10				4000	4000		-	1	20	SPARE	70
71	WATER HEATER WH1		40	2	-	4000		4000		-	1	20	SPARE	72
73						4000	4000			-	1	20	SPARE	74
75	WATER HEATER WH1		40	2	-	4000		4000		-	1	20	SPARE	7
77	"					4000	4000			-	1	20	SPARE	78
79	SPARE		20	1	-			0		-	1	20	SPARE	80
81	SPARE		20	1	-		0			-	1	20	SPARE	82
83	SPARE		20	1	-			0		-	1	20	SPARE	8-
NCLOSURE A	ACCESSORIES: CH, FL								PANELE	BOARD ACC	ESSC	DRIES:	GB, CBB	
<u>CIRCUIT BR</u> AC EO	REAKER ACCESSORIES: - AUXILLIARY CONTACTS - ELECTRICAL OPERATOR	ENCLOSURE ACC	- CONC	<u>ES:</u> EALED HI MN WIDTI				<u>PANELBOA</u> CL FTL	RD ACCESSO - COMPRES - FEED-THR	SSION LUGS			SFB - SUB-FEED CIRCUIT BREAKER SFL - SUB-FEED LUGS	
GFCI HACR HLF	- ELECTRICAL OFERATOR - GROUND-FAULT INTERRUPTING - HACR RATING - HANDLE LOCK-OFF	DWD EGT EGB	- HINDG - EXTER	GED DOO! NDED GU		INGED DOC)R	GB IGB NBK	- EQUIPMEI - INSULATE	NT GROUND BA ED GROUND BAF BONDING KIT			CBB - SILVER PLATED COPPER BUS BARS ABB - TIN PLATED ALUMINUM BUS BARS TRN - 200% RATED NEUTRAL BUS BAR	

	1	OCCUPA	MINCY 5	ENSOR S	OCHEL	JULE					
MARK	CONTROL TYPE	LOAD		SENSOR							
707 0 0 0	SONTINGE THE	EQUIPMENT SERVED	VOLTAGE	MANUF	MODEL#	VOLTAGE	TYPE	TIME DELAY	MOUNTING	INTERLOCK	ACCES
OS1	WALL MOUNTED OCCUPANCY	RESTROOMS	120	WATTSTOPPER	DW-100	120	IR/US	AUTO	WALL BOX	-	1
								US - ULTRASOI			
	ES (APPLIES TO ALL SENSORS):	E LOCATIONS ON ELECTRICAL	DI ANS					IR/US -DUAL TE	ECHNOLOGY ANUFACTURER:	<u>S:</u>	
1. EACH SE 2. EQUIPME (PROVIDE	ES (APPLIES TO ALL SENSORS): NSOR TYPE MAY BE SHOWN IN MULTIPL INT SUBMITTAL: PRIOR TO APPROVAL, W ED BY MANUFACTURER'S REPRESENTAT IND SENSOR COVERAGE FOR EACH SPA	VITH OCCUPANCY SENSOR SPE TIVE) WITH OCCUPANCY SENSO	ECIFICATION INF				,	IR/US -DUAL TE	ECHNOLOGY ANUFACTURERS IOVITAS	<u>S:</u>	

SER - SERVICE ENTRANCE RATING

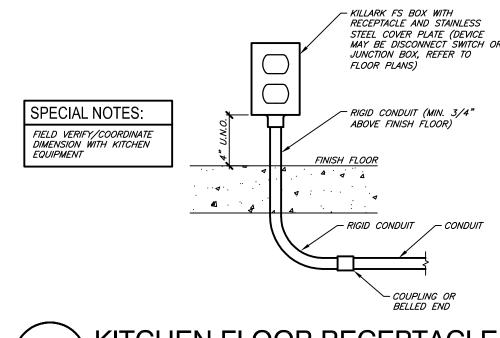
- FLUSH LOCK(S)



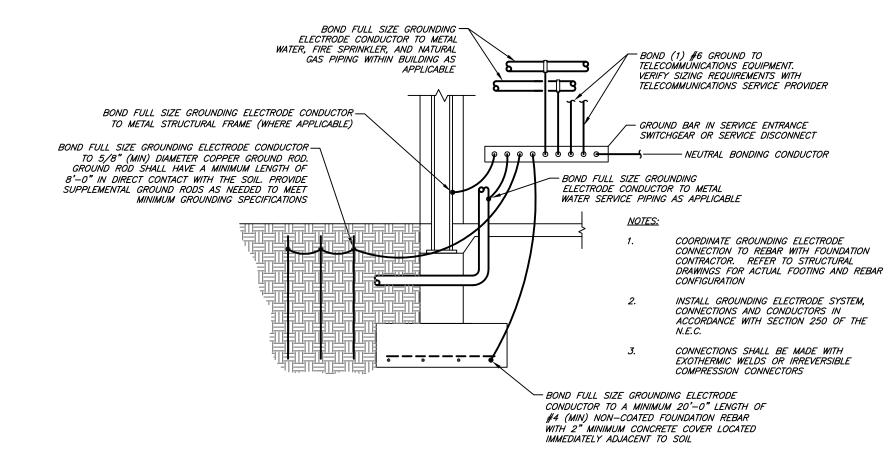
	DIS	CONNE	ECT	SW	/ITC	H SCH	EDULE		
MADIC	EQUIPMENT SERVED	SWITCH				OVERCURRE	NT PROTECTION	NEMA	NOTES &
MARK		VOLTAGE	DUTY	AMP	POLE	AMP	TYPE	ENCLOSURE	ACCESSORIES
DS1	CONDENSING UNIT CU1	240	GD	60	2	-	-	3R	1
DS2	CONDENSING UNIT CU2	240	GD	60	2	-	-	3R	1
DS3	REMOTE CONDENSING UNIT	240	GD	30	3	-	-	3R	1
DS4	WATER HEATER WH1	240	GD	100	2	-	-	1	1
	D LUG KIT					UIT BREAKER			
2. SOLID N 3. SERVIC	E ENTRANCE RATED				HD - HEAV	RAL DUTY Y DUTY			

MARK -	LOAD			CONTACTOR					
	EQUIPMENT SERVED	VOLTAGE	TYPE	AMP	POLE	ENCLOSURE	CONTROLLED BY	NOTES	
LC1	EXTERIOR LIGHTING	120/240	NOEH	20A	8	NEMA 1	TIME SWITCH TS1	1	

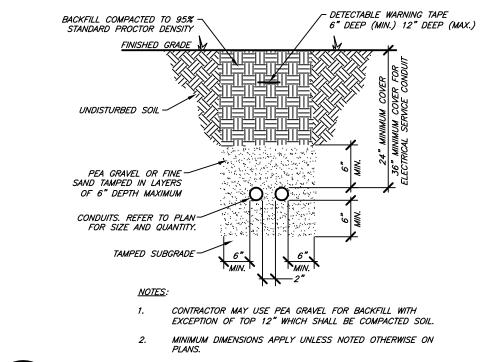
MARK	MANUFACTURER	MODEL#	EQUIPMENT SERVED	VOLTAGE	AMP	POLE	ENCLOSURE	NOTES		
TS1	TORK	DTS200B	EXTERIOR LIGHTING	120	30	1	NEMA 1	1		







GROUNDING ELECTRODE DETAIL NO SCALE



1 ELECTRICAL CONDUIT TRENCH DETAIL
NO SCALE

GENERAL ELECTRICAL NOTES:

<u>GENERAL</u>

- 1. GENERAL ELECTRICAL NOTES APPLY TO ALL ELECTRICAL SHEETS.

 2. CJD ENGINEERING LLC, BEING THE AUTHOR OF THESE CONSTRUCTION DOCUMENTS RESERVES THE RIGHT OF FINAL INTERPRETATION AS TO THEIR INTENT AND MEANING. ANY ADDITIONAL WORK OR COSTS RESULTING FROM THE CONTRACTOR'S OWN INTERPRETATION AS TO THE INTENT OR MEANING WITHOUT CONSULTATION WITH CJD ENGINEERING LLC SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR AT NO COST TO OWNER OR A/E.
- 3. THE INTENT OF THE WORK INDICATED ON THESE CONSTRUCTION DOCUMENTS IS TO PROVIDE A FULLY FUNCTIONING SYSTEM IN COMPLETE WORKING ORDER. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR AND THE CONTRACTORS SUPPLIERS TO INCLUDE ALL ACCESSORIES, COMPONENTS, PARTS, ETC. THAT MAY NOT BE INDICATED ON THESE CONSTRUCTION DOCUMENTS TO PROVIDE BUILDING CODE COMPLIANT SYSTEMS AND EQUIPMENT THAT OPERATE SATISFACTORILY AS DESIGNED AND INTENDED.
- 4. ALL ELECTRICAL WORK SHALL BE PERFORMED BY LICENSED CONTRACTORS IN ACCORDANCE WITH THE 2018 INTERNATIONAL BUILDING CODES, THE 2017 NATIONAL ELECTRICAL CODE, AND ALL LOCAL CODES AS ADOPTED BY THE AUTHORITIES HAVING JURISDICTION.

 5. THE CONTRACTOR SHALL INCLUDE ALL PERMIT AND INSPECTION FEES IN BID.
- 6. THE CONTRACTOR SHALL VERIFY ALL EXISTING CONDITIONS PRIOR TO SUBMITTING HIS BID. NO EXTRAS WILL BE PAID DUE TO UNANTICIPATED EXISTING CONDITIONS.

 7. PLANS ARE DIAGRAMMATIC AND SHALL NOT BE SCALED. REFER TO CIVIL, STRUCTURAL AND ARCHITECTURAL DRAWINGS AND EXISTING CONDITIONS FOR DIMENSIONS. FIELD VERIFY ALL
- DIMENSIONS.

 EQUIPMENT AND CONDUIT/CONDUCTOR LAYOUTS ARE DIAGRAMMATIC. FIELD COORDINATE

 EYACT LOCATIONS AND POLITINGS WITH STRUCTURE PIRING DUCTWORK LIGHT FIXTURES
- EXACT LOCATIONS AND ROUTINGS WITH STRUCTURE, PIPING, DUCTWORK, LIGHT FIXTURES, ETC. FINAL RESULT SHALL BE EQUIVALENT TO THAT INDICATED ON DRAWINGS.

 COOPERATE CLOSELY WITH ALL OTHER TRADES TO EXPEDITE CONSTRUCTION AND AVOID
- INTERFERENCES AND CONFLICTS. BEFORE ANY PIPING, DUCTWORK, CONDUIT, ETC. IS INSTALLED, IT SHALL BE COORDINATED CAREFULLY BETWEEN ALL TRADES.

 10. MAINTAIN ALL CLEARANCES REQUIRED BY ELECTRICAL EQUIPMENT. COORDINATE WITH PLUMBING, HYAC, AND SPRINKLER CONTRACTORS TO MAINTAIN ALL CLEARANCES REQUIRED FOR EQUIPMENT. DO NOT ROUTE PIPING, DUCTWORK, ETC. ABOVE ELECTRICAL PANELS.
- FOR EQUIPMENT. DO NOT ROUTE PIPING, DUCTWORK, ETC. ABOVE ELECTRICAL PANELS.

 11. DRAWINGS REPRESENT FINAL RESULT. REMOVE, RELOCATE, MODIFY EXISTING EQUIPMENT, DUCTWORK, PIPING, ETC. AS REQUIRED. FIELD VERIFY EXISTING CONDITIONS AND EXACT REQUIREMENTS.
- 12. COORDINATE INFORMATION OUTLET, RECEPTACLE, AND OTHER DEVICE LOCATIONS WITH OWNER AND WITH MILLWORK AND WITH OTHER TRADES PRIOR TO ROUGH—IN.
- 13. INFORMATION OUTLET (DATA AND TELEPHONE) DEVICES, WALL PLATES, AND ASSOCIATED WIRING SHALL BE SUPPLIED AND INSTALLED BY OTHERS UNDER A SEPARATE CONTRACT WITH THE OWNER.
 - P. THE CONTRACTOR SHALL PROVIDE ELECTRONIC SHOP DRAWINGS/SUBMITTALS OF ALL FIXTURES AND EQUIPMENT FURNISHED UNDER THIS CONTRACT.
- 15. IF CONTRACTOR WISHES TO INCORPORATE PRODUCTS OTHER THAN THOSE NAMED IN SPECIFICATIONS IN HIS BID OR PRODUCTS BY MANUFACTURERS OTHER THAN THOSE LISTED AS APPROVED MANUFACTURERS, THE CONTRACTOR SHALL SUBMIT A WRITTEN REQUEST FOR REVIEW AND APPROVAL OF PROPOSED SUBSTITUTIONS TO CJD ENGINEERING LLC NOT LESS THAN FIVE WORKING DAYS PRIOR TO BID DATE. APPROVAL OR ACCEPTANCE OF PROPOSED SUBSTITUTION OF MANUFACTURERS OR TIEMS IS FOR THE PURPOSED OF BIDDING ONLY AND DOES NOT RELIEVE THE PROPOSED SUBSTITUTION FROM SUBMITTAL/SHOP DRAWING REVIEW AND DOES NOT CONSTITUTE PRIOR APPROVAL OF PROPOSED SUBSTITUTIONS.
- 16. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE COSTS OF LARGER WIRING, CONDUIT, ENCLOSURES, CONTROL AND OVERCURRENT PROTECTIVE DEVICES, ETC. RESULTING FROM SUBSTITUTION OF EQUIPMENT OTHER THAN THAT WHICH WAS THE BASIS OF DESIGN AT NO COST TO OWNER OR A/E.
- 17. THE CONTRACTOR SHALL GUARANTEE ALL EQUIPMENT, ACCESSORIES, AND MATERIAL FURNISHED BY HIM FOR A PERIOD OF ONE YEAR FROM FINAL ACCEPTANCE AGAINST ALL DEFECTS.
- 18. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ENSURING COSTS TO CUT, PATCH AND REPAIR EXISTING WALL, FLOOR AND CEILING CONSTRUCTION AS REQUIRED TO INSTALL NEW FIXTURES, CONDUIT, WIRING, ETC. ARE INCLUDED IN THE BID PRICE.

 PRODUCTS
- 1. LIGHT SWITCHES SHALL BE EQUIVALENT TO HUBBELL 1220 SERIES, 20-AMP, 120/277-VOLT, IN COLOR SELECTED BY THE ARCHITECT/INTERIOR DESIGNER.
- 2. DUPLEX RECEPTACLES SHALL BE EQUIVALENT TO HUBBELL 5300 SERIES, 20A, 125V, NEMA CONFIGURATION 5-20R, IN COLOR SELECTED BY THE ARCHITECT/INTERIOR DESIGNER.
- N.E.C.

 4. ELECTRICAL DEVICE WALL PLATES SHALL BE HIGH IMPACT NYLON PLASTIC IN COLOR AS
- SELECTED BY THE ARCHITECT/INTERIOR DESIGNER.

 FEEDER AND BRANCH CIRCUIT WIRING SHALL BE COPPER, 600V WITH THHN/THWN
 INSULATION. BRANCH CIRCUIT WIRING SHALL BE #12 AWG MINIMUM. HOMERUNS FOR

ALL RECEPTACLES THROUGHOUT SHALL BE TAMPER-RESISTANT TYPE, TO COMPLY WITH

- BRANCH CIRCUITS OVER 75 FEET LONG SHALL BE #10 AWG; OVER 100 FEET LONG, #8
 AWG UNLESS INDICATED OTHERWISE.

 EQUIVALENT WIRING DEVICES BY BRYANT, COOPER, HUBBELL, LEVITON, OR AS APPROVED
- BY OWNER.

 EQUIVALENT PANELBOARDS, LIGHTING CONTACTORS AND DISCONNECT SWITCHES BY CUTLER HAMMER, GENERAL ELECTRIC, SIEMENS, SQUARE D, OR AS APPROVED BY OWNER.
- 1. PROVIDE ALL ACCESSORIES, COMPONENTS, ETC. REQUIRED FOR COMPLETE INSTALLATION OF
- SPECIFIED EQUIPMENT.

 2. PROVIDE UNISTRUTS AND ACCESSORIES AS REQUIRED FOR SUPPORT OF PIPING, EQUIPMENT,
- 3. COORDINATE LIGHTING AND CEILING DEVICE LOCATIONS WITH ARCHITECTURAL REFLECTED
- ALL WIRING SHALL BE INSTALLED IN EMT CONDUIT AND SHALL BE CONCEALED UNLESS OTHERWISE NOTED. PVC CONDUIT WILL BE ALLOWED BELOW SLAB. ALL TRANSITIONS FROM PVC TO STEEL CONDUIT SHALL BE MADE BELOW GRADE. MINIMUM CONDUIT SIZE FOR LIGHTING AND POWER BRANCH CIRCUITS ABOVE GRADE SHALL BE 1/2". MINIMUM CONDUIT SIZE FOR LIGHTING AND POWER BRANCH CIRCUITS BELOW GRADE SHALL BE 3/4". CONTRACTOR SHALL HAVE THE OPTION TO USE METALLIC CLAD (M/C) CABLE FOR CONCEALED BRANCH CIRCUIT WIRING.
- 5. MINIMUM CONDUIT SIZE FOR INFORMATION OUTLETS SHALL BE 3/4". CONDUIT STUBS SHALL BE TERMINATED WITH INSULATING BUSHINGS.
- 6. ALL LIGHTING AND POWER CIRCUITS SHALL HAVE A GROUNDING CONDUCTOR.
- 7. ALL RECEPTACLES, TELECOMMUNICATIONS OUTLETS, AND TELEVISION OUTLETS SHALL BE INSTALLED AT 18" AFF TO CENTER UNLESS NOTED OTHERWISE. ALL SWITCHES SHALL BE INSTALLED AT 48" AFF TO CENTER UNLESS NOTED OTHERWISE.
- B. PROVIDE TYPED CIRCUIT DIRECTORIES FOR ALL PANELBOARDS. DIRECTORY INFORMATION SHALL INCLUDE CIRCUIT NUMBER AND EQUIPMENT SERVED.
- SHALL INCLUDE CIRCUIT NUMBER AND EQUIPMENT SERVED.

 9. INSTALL ALL ROOF EQUIPMENT, PIPE, AND CONDUIT SUPPORTS, CURBS AND PENETRATIONS
- IN ACCORDANCE WITH THE REQUIREMENTS OF THE ROOFING SYSTEM MANUFACTURER.

 O. SUPPORT CONDUIT ON ROOF WITH PREMANUFACTURERED PIPING SUPPORT EQUIVALENT TO B-LINE C-SERIES. FIELD FABRICATED SUPPORTS CONSISTING OF LUMBER, ETC. ARE NOT
- ACCEPTABLE.

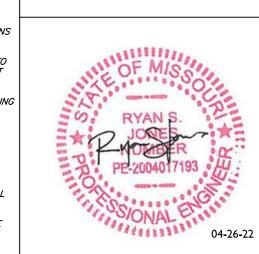
 11. PROVIDE FACTORY FABRICATED PIPE CURB ASSEMBLIES FOR MULTIPLE CONDUIT AND PIPING
 PENETRATIONS THROUGH THE ROOF. PIPE CURB ASSEMBLIES SHALL BE FACTORY
 FABRICATED. 8" TALL (MINIMUM) GALVANIZED STEEL ROOF CURBS WITH INTEGRAL BASE
- FABRICATED, 8" TALL (MINIMUM) GALVANIZED STEEL ROOF CURBS WITH INTEGRAL BASE PLATE, 3 LB. DENSITY INSULATION, WOOD NAILER, ACRYLIC CLAD THERMOPLASTIC COVER, FASTENING SCREWS, AND GRADUATED STEP BOOTS WITH STAINLESS STEEL CLAMPS AS MANUFACTURED BY PATE, THYBAR OR APPROVED EQUIVALENT. PROVIDE PIPE SEAL ASSEMBLIES FOR INDIVIDUAL CONDUIT OR PIPE PENETRATIONS. ALL WORK SHALL BE IN ACCORDANCE WITH ROOFING MANUFACTURER'S RECOMMENDATIONS AND REQUIREMENTS.
- PROVIDE SLEEVES AT CONDUIT PENETRATIONS OF EXTERIOR OR FOUNDATION WALLS. SEAL PENETRATIONS WEATHERTIGHT.
 SEAL ALL PENETRATIONS THROUGH FIRE—RATED ASSEMBLIES AS NECESSARY TO RESTORE
- FIRE-RESISTANCE RATING OF ASSEMBLY. REFER TO ARCHITECTURAL PLANS AND SPECIFICATIONS FOR RATED ASSEMBLIES, FIRESTOPPING MATERIALS AND REQUIREMENTS.

 14. CONTRACTOR SHALL MAKE ALL FINAL CONNECTIONS TO SPECIAL EQUIPMENT. PROVIDE ADAPTERS, FITTINGS, ETC. FOR ALL EQUIPMENT AS REQUIRED. COORDINATE SPECIFIC REQUIREMENTS WITH EQUIPMENT SUPPLIERS. REFER TO SPECIAL EQUIPMENT DRAWINGS FOR
- ADDITIONAL INFORMATION.

 15. ELECTRICAL CONTRACTOR SHALL PROVIDE ROUGH—IN FOR THERMOSTATS AND SENSORS.

 PROVIDE SINGLE—GANG BOX WITH 0.75" CONDUIT TO ABOVE ACCESSIBLE CEILING OR TO ASSOCIATED EQUIPMENT. THERMOSTATS, SENSORS, AND WIRING SHALL BE PROVIDED BY
- MECHANICAL CONTRACTOR. REFER TO HVAC PLANS FOR THERMOSTAT AND CONTROL LOCATIONS.

 5. BRANCH CIRCUIT WIRING SERVING EQUIPMENT, LIGHTING, AND RECEPTACLES IN PATIENT CARE AREAS SHALL COMPLY WITH NEC SECTION 517.13. METAL RACEWAYS, ARMORED CABLING AND ASSOCIATED FITTINGS SHALL BE LISTED AS A GROUND RETURN PATH AND SHALL CONTAIN A SEPARATE EQUIPMENT GROUNDING CONDUCTOR AS SPECIFIED.



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CONSTRUCTION

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ENGINEER OF RECORD:

NAME: RYAN JONES

LICENSE NO.PE-2004017193

PROJECT NUMBER: 21334 7BSM

REVISION:

CID

Engineering | Energy | Innovation

2225 West Chesterfield Boulevard, Suite 200, Springfield, MO 65807
P: 417.877.1700 F: 417.324.7735 www.cjd-eng.com

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SCHEDULES AND
DETAILS
DATE: APRIL 26, 2022