

# ABBREVIATIONS

ACC	ACCESSIBLE	L	LONG
ACP	ACOUSTICAL CEILING	LAV	LAVATORY
PANEL	AD	LT	LIGHT
AD	AREA DRAIN	LTG	LIGHTING
AF	ABOVE FINISHED FLOOR	MAS	MASONRY
AHU	AIR HANDLING UNIT	MAX	MAXIMUM
ALT	ALTERNATE	MECH	MECHANICAL
ALUM	ALUMINUM	MED	MEDIUM
ANOD	ANODIZED	MEMB	MEMBRANE
APPROX	APPROXIMATE	MFR	MANUFACTURER
ARCH	ARCHITECT	MIN	MINIMUM, MINUTE
ARCHITECTURAL	ARCHITECTURAL	MISC	MISCELLANEOUS
AUTO	AUTOMATIC	MIS	MOUNTED
AV	AUDIO VISUAL	MOP	SINK
		MTD	MOUNTED
BCT	BABY CHANGING TABLE	MTL	METAL
BD	BOARD	MVBL	MOVABLE
BLDG	BUILDING	N	NORTH
BLDG	BLOCKING	NIC	NOT IN CONTRACT
BO	BOTTOM	NO	NUMBER
BOT	BOTTOM OF	NOM	NOMINAL
BRG	BEARING	NTS	NOT TO SCALE
		OC	ON CENTER
CB	CATCH BASIN	OPNG	OPENING
CG	CORNER GUARD	OPP	OPPOSITE
CH	CURT HOOK	ORD	OVERFLOW ROOF DRAIN
CL	CENTERLINE	OTS	OPEN TO STRUCTURE
CLG	CEILING		
CLR	CLEAR		
CMU	CONCRETE MASONRY		
UNIT			
CO	CLEAN OUT, CASED	PBD	PARTICLEBOARD
	OPENING	PRCST	PRECAST
COL	COLUMN	PERP	PERPENDICULAR
CONT	CONTINUOUS, CONTINUE	PLAM	PLASTIC LAMINATE
CSWK	CASEWORK	PLAS	PLASTER
CTR	CENTER	PLYWD	PLYWOOD
CU	CUBIC	PNL	PANEL
		PL	PROPERTY LINE
D	DEEP, DEPTH	PR	PAIR
DEMO	DEMOLISH, DEMOLITION	PRKG	PARKING
DET	DETAIL	PROP	PROPERTY
DA	DIAMETER	PT	POINT, POINT
DIAG	DIAGONAL DIAGRAM	PTN	PARTITION
DM	DIMENSION		
DN	DOWN	R	RADIUS, RISER
DR	DOOR	RCP	REFLECTED CEILING
DS	DOWNSPOUT	PLAN	PLAN
DW	DISHWASHER	RD	ROOF DRAIN, ROAD
DWG	DRAWING	REF	REFER TO, REFERENCE
		REFG	REFRIGERATOR
E	EAST	REINFC	REINFORCED
EPS	EXTERIOR INSULATION	REINF	REINFORCING
AND		REQD	REQUIRED
		REV	REVISED, REVISION
		RFG	ROOFING
EJ	EXPANSION JOINT	RM	ROOM
EL	ELEVATION	RO	ROUGH OPENING
ELEC	ELECTRIC, ELECTRICAL	RT	RIGHT
ELEV	ELEVATOR		
ENCL	ENCLOSE, ENCLOSURE		
EP	ELECTRICAL PANEL	S	SOUTH
EQ	EQUAL	SAM	SELF ADHERING
EQUIP	EQUIPMENT	SC	SCHEDULE
EXIST	EXISTING	SCD	SCHEDULE
EXH	EXHAUST	SD	STORM DRAIN
EXP	EXPANSION, EXPOSED	SD	SOAP DISPENSER
EXTR	EXTERIOR	SECT	SECTION
		SGL	SINGLE
FA	FIRE ALARM	SHT	SHEET
FOC	FURNISHED BY CONTRACTOR	SHTHG	SHEATHING
	INSTALLED BY CONTRACTOR	SIM	SIMILAR
FOID	FURNISHED BY CONTRACTOR	SPEC	SPECIFICATION
	INSTALLED BY OWNER	SPKLR	SPEAKER
		SQ	SQUARE
FD	FLOOR DRAIN	SS	SERVICE SINK, SANITARY
FDC	FIRE DEPARTMENT CONNECTION	SST	STAINLESS STEEL
FDN	FOUNDATION	STC	SOUND TRANSMISSION CLASS
FE	FIRE EXTINGUISHER		
FH	FIRE HYDRANT	STD	STANDARD
FHC	FIRE HOSE CABINET	STL	STEEL
FIG	FIGURE	STR	STORAGE
FIN	FINISH, FINISHED	STRUC	STRUCTURAL
FO	FACE OF FINISHED	SUSP	SUSPENDED
	OPENING		
FOC	FURNISHED BY OWNER	T	TREAD
	INSTALLED BY CONTRACTOR	T&G	TONGUE AND GROOVE
FOO	FURNISHED BY OWNER	TEL	TELEPHONE
	INSTALLED BY OWNER	TEMP	TEMPERATURE, TEMPORARY
FP	FIRE PROTECTION, FIREPROOF	TEMPD	TEMPERED
FR	FRAME, FIRE RATED	TOP OF	TOP OF
FRT	FIRE RETARDANT	TSTAT	THERMOSTAT
	TREATED	TY	TYPICAL
FS	FLOOR SINK	UGND	UNDERGROUND
FT	FOOT, FEET	UNFN	UNFINISHED
		UN	UNLESS OTHERWISE
GA	GAUGE	NOTED	NOTED
GALV	GALVANIZED	UR	URINAL
GB	GRAB BAR		
GEN	GENERAL GENERATOR	VERT	VERTICAL
GFR	GLASS-FIBER REINFORCED CONCRETE	VEST	VESTIBULE
	REINFORCED	VF	VEEP IN FIELD
GFRG	GLASS-FIBER REINFORCED	VNR	VEENER
	REINFORCED	VR	VAPOR RETARDER
		VWC	VINYL WALLCOVERING
GFRP	GLASS-FIBER REINFORCED	W	WEST, WIDE
	PLASTIC	WI	WITH
GL	GLASS	WIO	WITHOUT
GYP	GYPSONIUM	WC	WATER CLOSET
GYP BD	GYPSONIUM BOARD	WALLCOVERING	WALLCOVERING
		WOOD	WOOD
WB	WALL BOARD	WHD	WALL HYDRANT
WB	WALL BOARD	WP	WEATHERPROOF, WATERPROOF
HDW	HARDWARE	WATERPROOFING	WATERPROOFING, WORK
HO	HOLD OPEN	POINT	POINT
HORIZ	HORIZONTAL	WR	WATER RESISTANT
HR	HOOR	WR	WASTE RECEPTACLE
HT	HEIGHT		
HVAC	HEATING, VENTILATING		
AND			
	AIR-CONDITIONING		
ID	INSIDE DIAMETER		
INFO	INFORMATION		
INSUL	INSULATE, INSULATION		
INT	INTERIOR		
IWD	INDIRECT WASTE DRAIN		
JT	JOINT		
KIT	KITCHEN		

# RESPONSIBILITY LEGEND

ITEM / DESCRIPTION	LANDLORD		OWNER		GC		VENDOR	
	FURNISHED	INSTALLED	FURNISHED	INSTALLED	FURNISHED	INSTALLED	FURNISHED	INSTALLED
CONSTRUCTION FENCE / BARRICADE					X	X		
TEMPORARY UTILITIES / LIGHTING					X	X		
DEMISING WALL	X	X						
RESTROOMS					X	X		
STOREFRONT MODIFICATIONS	X	X						
ROOFING REPAIRS	X	X						
HVAC EQUIPMENT	X	X						
GREASE INTERCEPTOR	X	X						
GAS METER	X	X						
GAS STUB TO SPACE	X	X						
ELECTRICAL METER	X	X						
ELECTRICAL CONDUIT TO SPACE	X	X						
ELECTRICAL PANELS	X	X						
TELEPHONE CONDUIT TO SPACE	X	X						
WATER METER / SUBMETER	X	X						
WATER BACKFLOW PREVENTOR	X	X						
WATER STUB TO SPACE	X	X						
FIRE RISER	X	X						
FIRE SPRINKLER SYSTEM MODIFICATIONS					X	X		
FIRE ALARM SYSTEM MODIFICATIONS					X	X		
FLOOR & WALL FINISHES					X	X		
PIZZA OVEN					X	X		
PIZZA OVEN EXHAUST					X	X		
CASEWORK					X	X		
SODA MACHINE					X	X		
KITCHEN EQUIPMENT					X	X		

# SEPARATE PERMITS

- A. TENANT SIGNAGE
- B. FIRE SPRINKLER MODIFICATIONS
- C. FIRE ALARM MODIFICATIONS

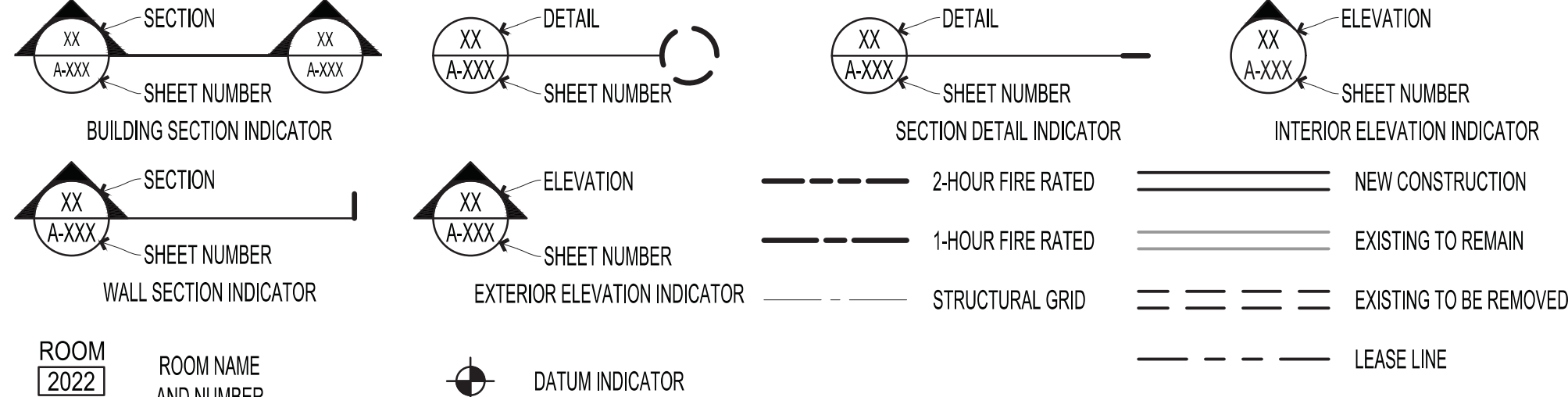
# SCOPE OF WORK

TENANT IMPROVEMENT OF AN INTERIOR SPACE IN AN EXISTING MULTI-TENANT SINGLE-LEVEL BUILDING FOR A FAST CASUAL DINING PIZZA RESTAURANT. WORK MAY INCLUDE: NON-STRUCTURAL PARTITIONS, INTERIOR DOORS, SUSPENDED CEILINGS, LIGHTING, FINISHES, FURNITURE / CASEWORK / FOOD SERVICE EQUIPMENT INSTALLATION, ASSOCIATED HVAC / PLUMBING / ELECTRICAL / GAS / TELECOMMUNICATION SYSTEMS, PIZZA OVEN EXHAUST SYSTEM, DOOR, FIRE SPRINKLER MODIFICATIONS, FIRE ALARM MODIFICATIONS

# GENERAL NOTES

- DO NOT SCALE THE DRAWINGS.
- VERIFY FIELD CONDITIONS PRIOR TO COMMENCEMENT OF EACH PORTION OF THE WORK.
- THE CONTRACT DOCUMENTS ARE COMPLEMENTARY, AND WHAT IS REQUIRED BY ONE SHALL BE BINDING IF REQUIRED BY ALL. THE CONTRACTOR SHALL COORDINATE ALL PORTIONS OF THE WORK AS DESCRIBED IN THE CONTRACT DOCUMENTS. NOTIFY THE ARCHITECT FOR RESOLUTION OF ALL DISCREPANCIES PRIOR TO CONSTRUCTION.
- DIMENSIONS ARE TO THE STRUCTURAL GRID OR TO FINISH SURFACES, UNLESS OTHERWISE INDICATED.
- DOORS AND CASED OPENINGS INDICATED NEAR BY WALL INTERSECTIONS, SHALL BE LOCATED SO THAT THE EDGE OF THE FINISH OPENING IS SIX INCHES FROM THE FACE OF THE NEARBY WALL UNLESS OTHERWISE INDICATED. ALL OTHER DOORS AND CASED OPENINGS SHALL BE CENTERED BETWEEN ADJACENT WALL INTERSECTIONS.
- ALL ANGLED WALLS ARE 45°, 90° OR 135° UON.
- ALL WOOD BACKERS AND NAILERS SHALL BE FIRE RETARDANT AS REQUIRED.
- THROUGHOUT THIS SET OF DRAWINGS, THE TERM "OWNER" REFERS TO THE "TENANT". THE TERM "LANDLORD" REFERS TO THE "PROPERTY OWNER".

# REFERENCE SYMBOLS



# BUILDING CODE INFORMATION

**JURISDICTION:** CITY OF LEE'S SUMMIT BUILDING & PLANNING DEPARTMENT  
**LEASE AREA:** 3,079 SF SINGLE STORY  
**APPLICABLE CODES:**  
 BUILDING CODE: 2018 INTERNATIONAL BUILDING CODE  
 EXISTING BUILDING CODE: 2018 INTERNATIONAL EXISTING CODE  
 ELECTRICAL CODE: 2017 NATIONAL ELECTRICAL CODE  
 MECHANICAL CODE: 2018 INTERNATIONAL MECHANICAL CODE  
 PLUMBING CODE: 2018 INTERNATIONAL PLUMBING CODE  
 FIRE CODE: 2018 INTERNATIONAL FIRE CODE  
 ENERGY CODE: 2018 INTERNATIONAL ENERGY CONSERVATION CODE  
 LOCAL ZONING CODE: CITY OF LEE'S SUMMIT UNIFIED DEVELOPMENT ORDINANCE  
 ACCESSIBILITY CODE: 2009 ICC/ANSI A117.1  
 HEALTH CODE: MISSOURI FOOD CODE  
**OCCUPANCY GROUP:** A-2 RESTAURANT  
**CONSTRUCTION TYPE:** II-B  
**SEISMIC DESIGN CATEGORY:** D  
**SPRINKLERED:** YES  
**FIRE ALARM SYSTEM:** YES

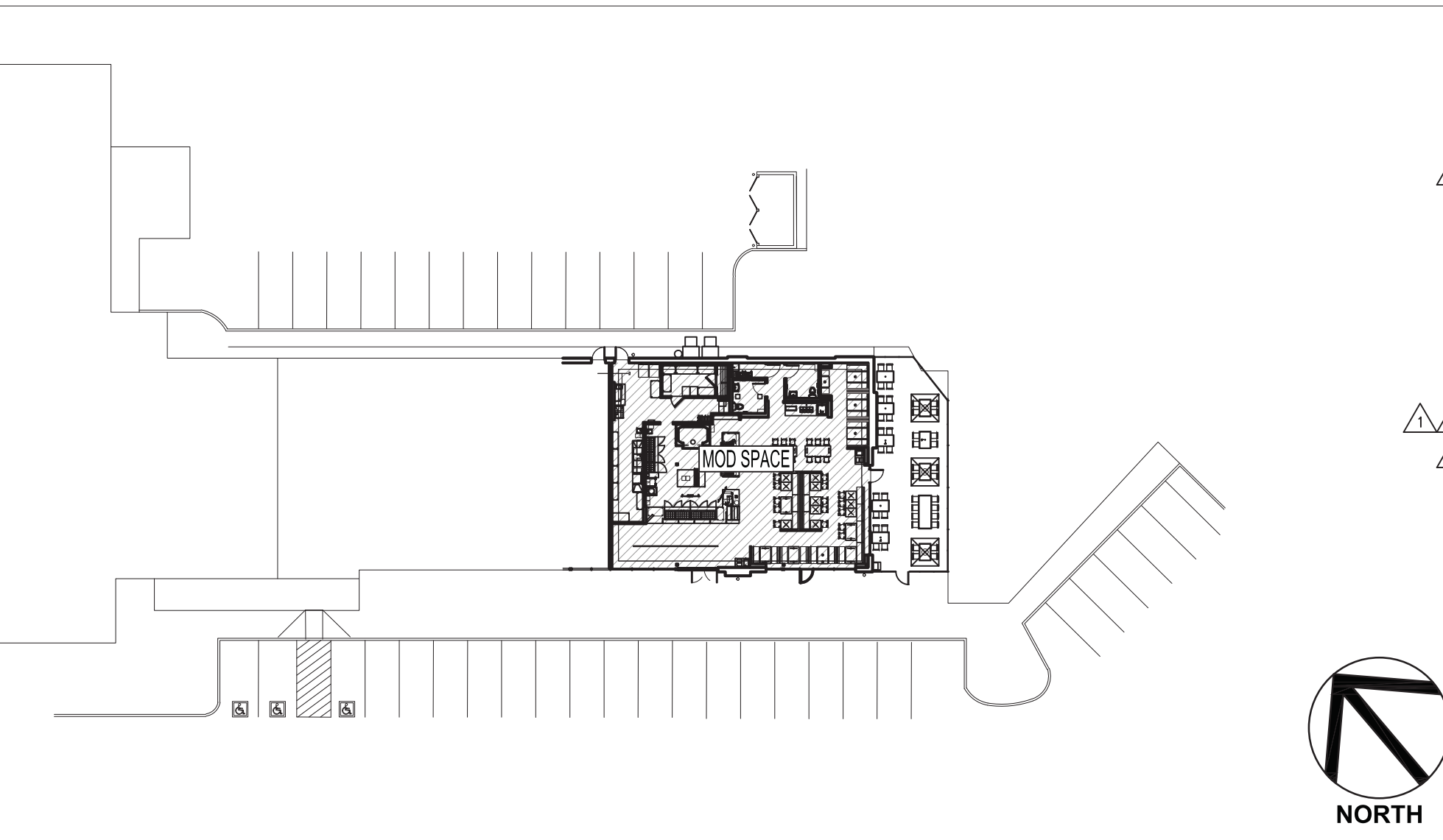
# PROJECT DIRECTORY

**PROPERTY OWNER:** TOWNSEND SUMMIT, LLC  
 120 SOUTH CENTRAL AVE  
 CLAYTON, MO 63105  
 CONTACT: MATT BLANCHARD  
 EMAIL: MATT@THENKIGROUP.COM  
**ARCHITECT:** INTERPLAN LLC  
 220 E CENTRAL PKWY, STE 4000  
 ALTAMONTE SPRINGS, FL 32701  
 ARCHITECT OF RECORD: DAVID BOYCE  
 CONTACT: EDUARDO MANI  
 PHONE: 630.932.2336  
 EMAIL: EMANI@INTERPLANLLC.COM  
**TENANT/FRANCHISE OWNER:** WOMACK RESTAURANT GROUP  
 14 S 9TH ST  
 TERRE HAUTE, IN 47807  
**DESIGN MANAGER:** CONTACT: LESLIE DAHLIN  
 PHONE: 425-381-9024  
 EMAIL: LESLIE.DAHLIN@MODPIZZA.COM  
**CONSTRUCTION MANAGER:** CONTACT: NATHANIEL BROWN  
 PHONE: 812-478-0232  
 EMAIL: NBROWN@WOMACKRESTAURANTS.COM

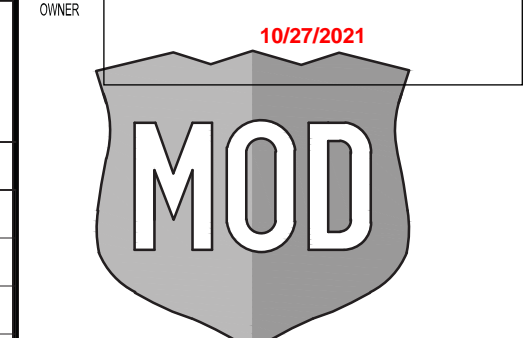
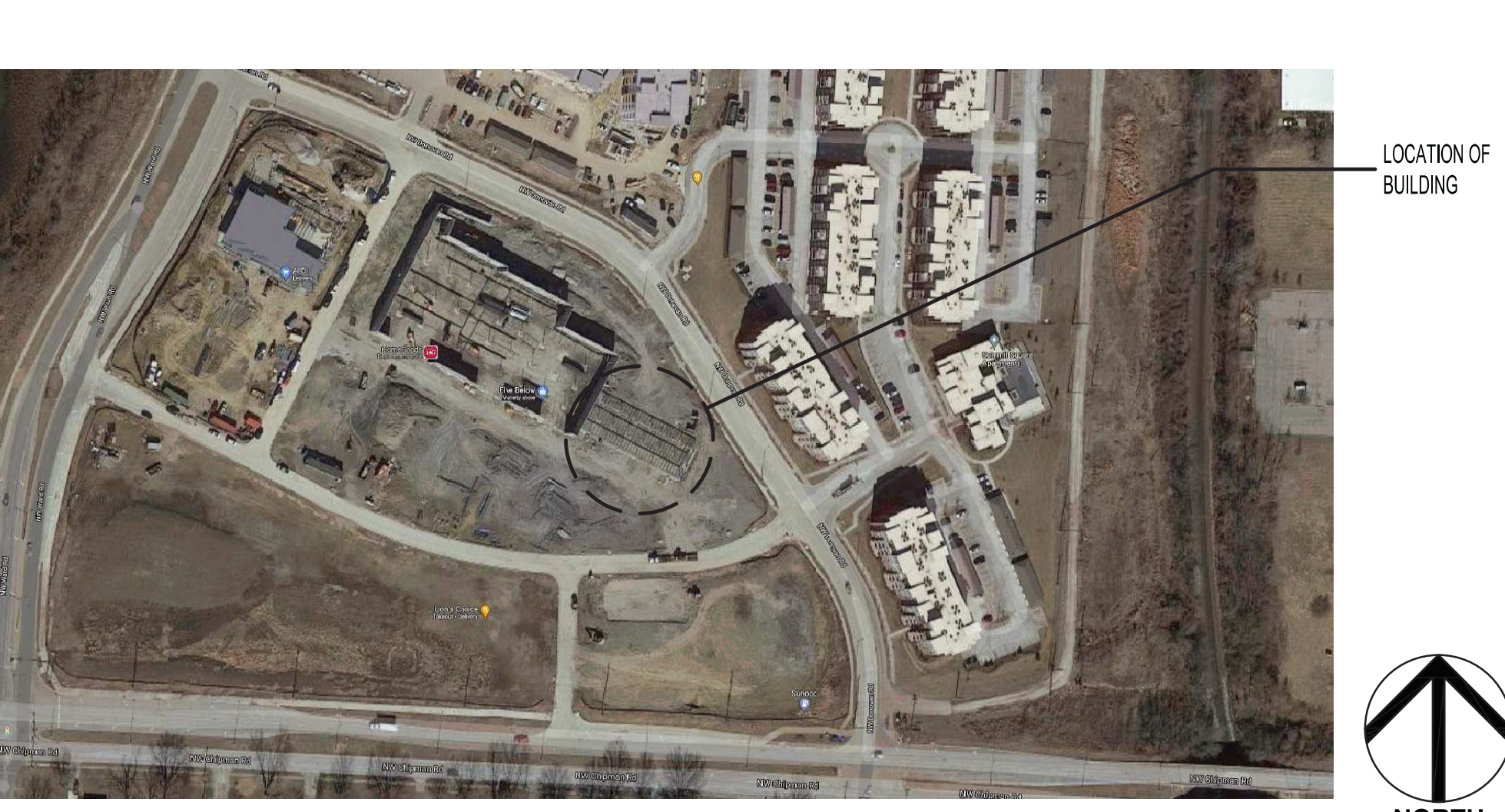
# DRAWING INDEX

GENERAL	PERMIT	REV1	REV2
A-001 GENERAL INFORMATION	●	●	●
A-002 SITE PLAN	●	●	●
A-003 EGRESS PLAN	●	●	●
A-004 HEALTH DEPARTMENT INFORMATION	●	●	●
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A-111 FLOOR PLAN	●	●	●
A-121 REFLECTED CEILING PLAN DETAILS	●	●	●
A-122 REFLECTED CEILING PLAN - BAFFLING	●	●	●
A-131 FINISH PLAN / SCHEDULE	●	●	●
A-132 EQUIPMENT PLAN / SCHEDULE	●	●	●
A-133 MISCELLANEOUS PLAN / SCHEDULE	●	●	●
A-134 FURNITURE & CASEWORK PLAN / SCHEDULE	●	●	●
A-401 ENLARGED PLANS AND DETAILS - PIZZA ENGINE	●	●	●
A-403 ENLARGED PLANS AND ELEVATIONS - RESTROOMS	●	●	●
A-405 ENLARGED PLANS AND DETAILS - PATIO	●	●	●
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A-701 INTERIOR ELEVATIONS - DINING	●	●	●
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A-703 INTERIOR ELEVATIONS - DINING	●	●	●
A-704 INTERIOR ELEVATIONS - DINING	●	●	●
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P-121 GAS PLAN	●	●	●
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P-601 PLUMBING SCHEDULES	●	●	●
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SP-903 ARCHITECTURAL SPECIFICATION	●	●	●
SP-904 ARCHITECTURAL SPECIFICATION	●	●	●
SP-905 ARCHITECTURAL SPECIFICATION	●	●	●
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VENDOR LIST			
V-001 VENDOR LIST	●	●	●
V-002 VENDOR LIST	●	●	●
HOOD DRAWINGS			
H-001 HOOD DRAWINGS	●	●	●
H-002 HOOD DRAWINGS	●	●	●
H-003 HOOD DRAWINGS	●	●	●
H-004 HOOD DRAWINGS	●	●	●
H-005 HOOD DRAWINGS	●	●	●
H-006 HOOD DRAWINGS	●	●	●
H-007 HOOD DRAWINGS	●	●	●

# SITE MAP



# VICINITY MAP



2035 158th CT NE  
Suite 200  
Bellevue, WA 98008

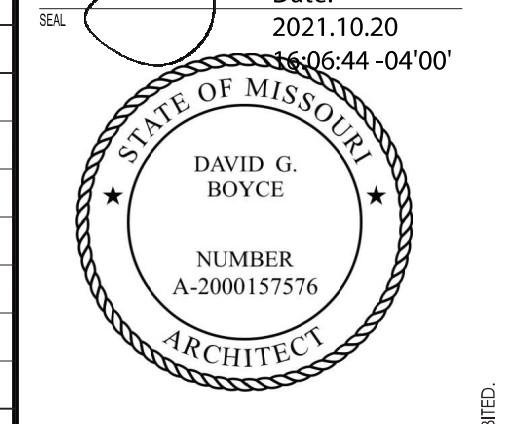


ARCH COA #2015008774  
ENG COA #2005026904

ARCHITECTURE ENGINEERING PERMITTING  
220 E. CENTRAL PKWY, STE 4000  
ALTAMONTE SPRINGS, FL 32701  
407.645.5008  
PROJECT NO. 2021.0524

CONSULTANT

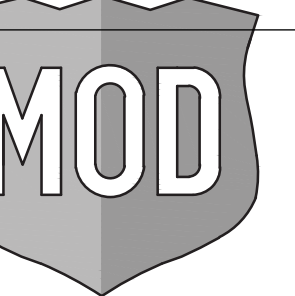
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**MOD LEE'S SUMMIT**  
460 NW CHIPMAN RD  
LEE'S SUMMIT, MO 64086

ISSUED / REVISED	DATE
△ BUILDING COMMENTS	10.18.21
△ DESIGN UPGRADES	10.18.21

**PERMIT SET** 09.20.21  
**A-001**  
 GENERAL INFORMATION  
 CHECKED: EM DRAWN: AL



2035 158th CT NE  
Suite 200  
Bellevue, WA 98008

ARCHITECT OF RECORD  
**INTERPLAN**  
INTERPLAN LLC

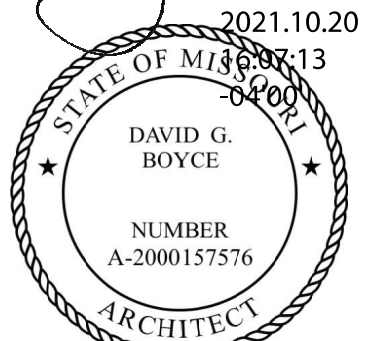
ARCH COA #2015008774  
ENG COA #2005026904

ARCHITECTURE  
ENGINEERING  
PERMITTING

220 E. CENTRAL PKWY. STE 4000  
ALTAMONTE SPRINGS, FL 32701  
407.645.5008  
PROJECT NO. 2021.0524

CONSULTANT

Digitally signed by David Boyce  
Date: 2021.10.20



**MOD LEE'S SUMMIT**  
460 NW CHIPMAN RD  
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ISSUED / REVISED	DATE
BUILDING COMMENTS	10.18.21
DESIGN UPGRADES	10.18.21

PERMIT SET 09.20.21

**A-002**  
SITE PLAN

CHECKED: EM DRAWN: AL

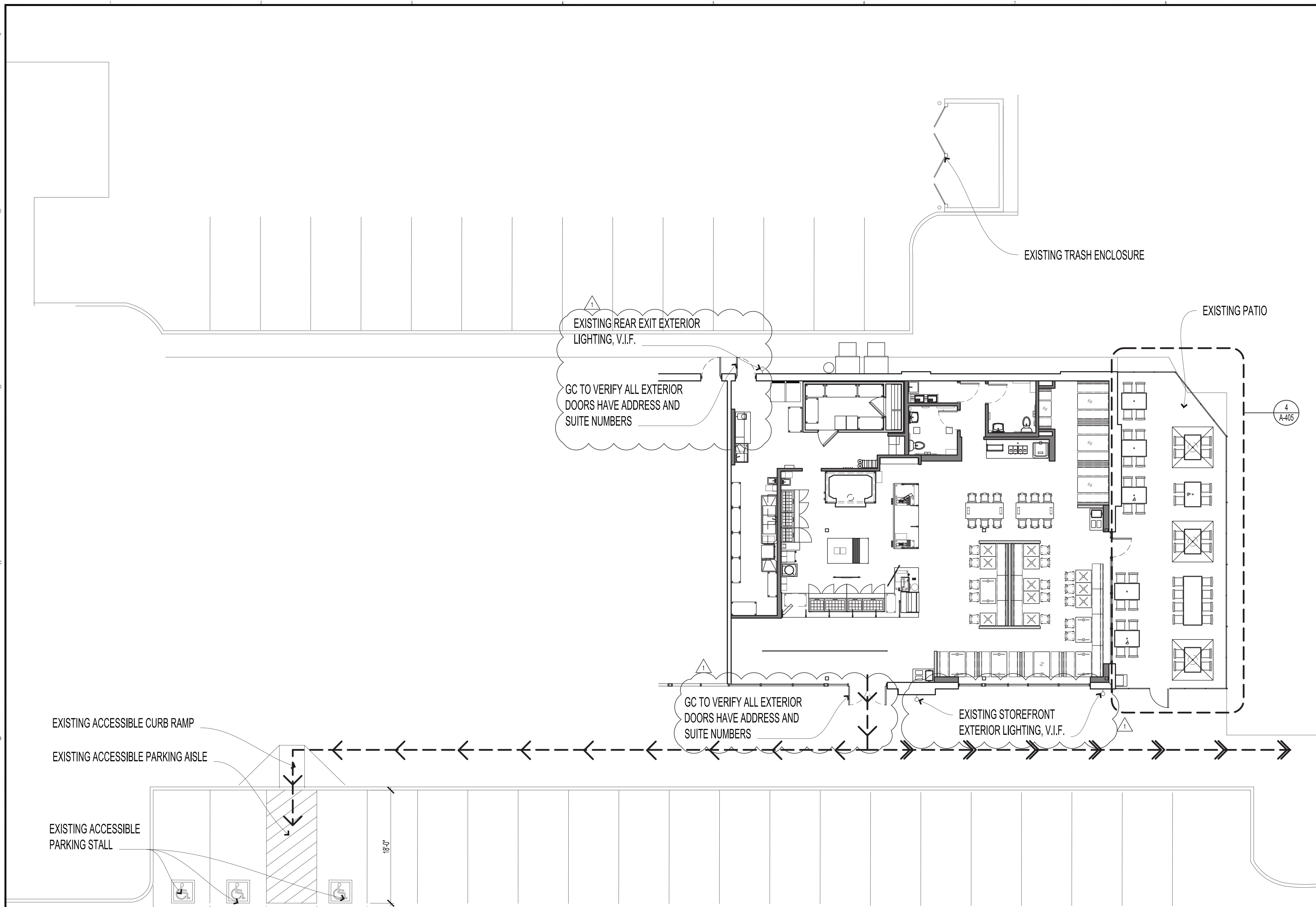
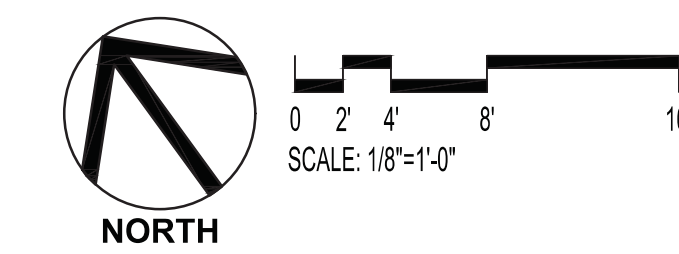
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**SHEET NOTES**

1. ACCESSIBLE ROUTE TO PUBLIC RIGHT OF WAY IS EXISTING.
2. ACCESSIBLE ROUTE BEYOND LEASE LINE TO ACCESSIBLE PARKING IS EXISTING.
3. APPROXIMATE DISTANCE TO DUMPSTER: 35'-0"

**SHEET SYMBOLS**

- ACCESSIBLE ROUTE
- ACCESSIBLE ROUTE TO PUBLIC RIGHT OF WAY



EXISTING REAR EXIT EXTERIOR LIGHTING, V.I.F.

GC TO VERIFY ALL EXTERIOR DOORS HAVE ADDRESS AND SUITE NUMBERS

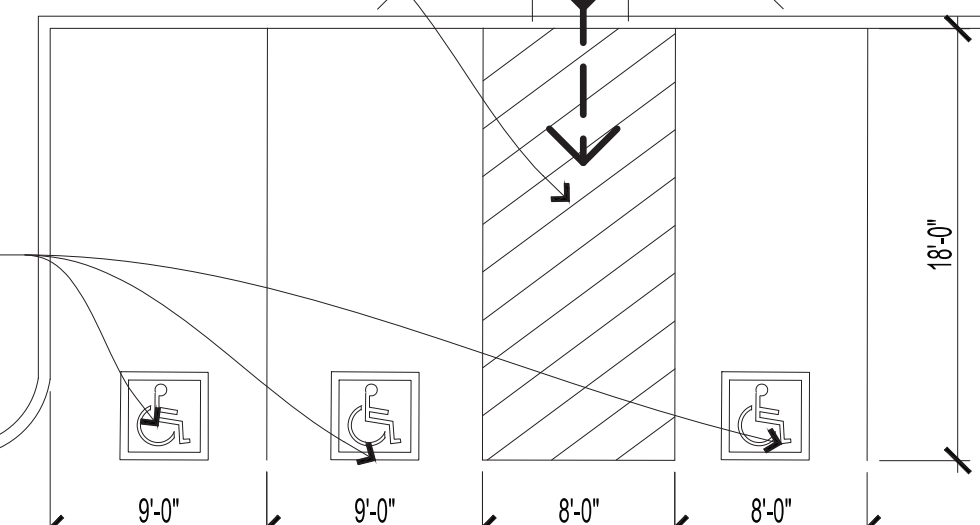
GC TO VERIFY ALL EXTERIOR DOORS HAVE ADDRESS AND SUITE NUMBERS

EXISTING STOREFRONT EXTERIOR LIGHTING, V.I.F.

EXISTING ACCESSIBLE CURB RAMP

EXISTING ACCESSIBLE PARKING AISLE

EXISTING ACCESSIBLE PARKING STALL



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**CALCULATIONS**

OCCUPANCY GROUP: ASSEMBLY A-2 (RESTAURANT)

INTERIOR OCCUPANT LOAD: (IBC TABLE 1004.1.2)

AREA	TOTAL SQ FT	LOAD	LOAD FACTOR	OCCUPANT LOAD
DINING (FLEXIBLE)	1,043	15 / SF	70	
QUEUING (STANDING)	125	5 / SF	25	
KITCHEN	779	200 / SF	4	
ACCESSORY	1,132	0 / SF	0	
<b>TOTAL</b>	<b>3,079</b>			<b>99</b>

EXTERIOR OCCUPANT LOAD: (IBC TABLE 1004.1.2)

PATIO (FLEXIBLE)	672	15 / SF	45	
<b>TOTAL</b>	<b>672</b>			<b>45</b>

INTERIOR SEATING: (IBC TABLE 1108.2.2.1)

SEAT TYPE	TOTAL LINEAR FT	SEATS PROVIDED
MOVABLE SEATS	-	27
FIXED SEATS	-	0
BENCHES (1 PER 18")	45'-0"	30
BOOTH SEATING (1 PER 24")	62'-0"	31
<b>TOTAL</b>		<b>88</b>
ACCESSIBLE	REQUIRED	5
		6

EXTERIOR SEATING: (IBC TABLE 1108.2.2.1)

MOVABLE SEATS	-	44
BENCHES (1 PER 18")	-	0
<b>TOTAL</b>		<b>44</b>
ACCESSIBLE	REQUIRED	2
		3

EXITS:

ALL EXITS ARE ACCESSIBLE	REQUIRED	PROVIDED
NUMBER OF EXITS (IBC TABLE 1015.1)	2	2
SPRINKLERED EXIT WIDTH (IBC 1005.3.2)	28'-8"	102"
EXIT SEPARATION (IBC 1015.2.1)	25'-6"	44'-2"
SPRINKLERED = 1/3 OVERALL DIAGONAL		
MAX TRAVEL DISTANCE (IBC TABLE 1016.2)	250'-0"	133'-6"
MAX COMMON PATH OF TRAVEL (IBC 1014.3)	75'-0"	72'-9"
PLUMBING FIXTURES: (IBC TABLE 2902.1)		

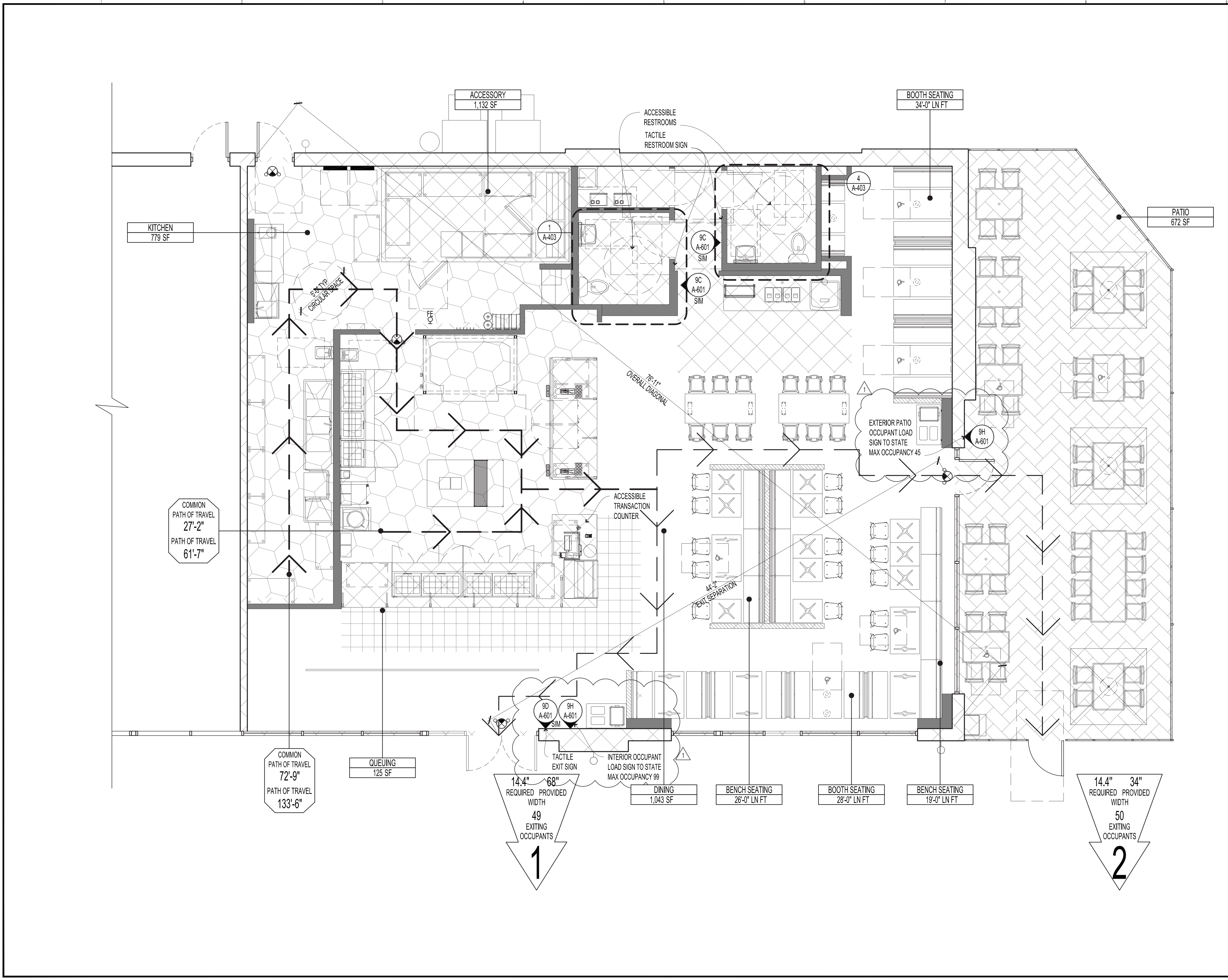
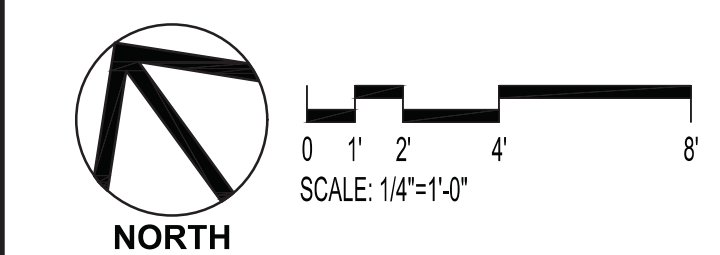
INTERIOR OCC + EXTERIOR OCC = TOTAL OCC 99 + 45 = 144  
 1/2 x TOTAL OCC = OCC PER SEX 1/2 x 144 = 72

PLUMBING FIXTURE	WOMENS		MENS	
	FIXTURES REQUIRED	FIXTURES PROVIDED	FIXTURES REQUIRED	FIXTURES PROVIDED
WATER CLOSET	1	1	1	1
LAVATORY	1	1	1	1
MOP SINK			1	1
DRINKING FOUNTAIN			EXCEPTION	

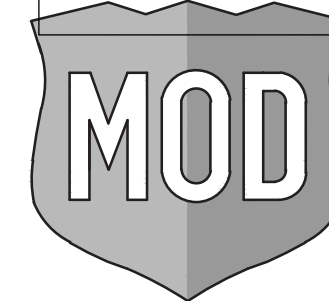
IPC 410.3: EXCEPTION:  
 WHERE RESTAURANTS PROVIDE DRINKING WATER IN A CONTAINER FREE OF CHARGE, DRINKING FOUNTAINS SHALL NOT BE REQUIRED.

**SHEET SYMBOLS**

- COMMON PATH OF TRAVEL (3FT CLEAR)
- PATH OF TRAVEL (3FT CLEAR)
- FF WALL MOUNTED FIRE EXTINGUISHER MOUNT WITH VALVE 48" AFF
- TACTILE SIGNAGE - SEE 9/A-601
- EXIT SIGN, REFER TO ELECTRICAL DRAWINGS







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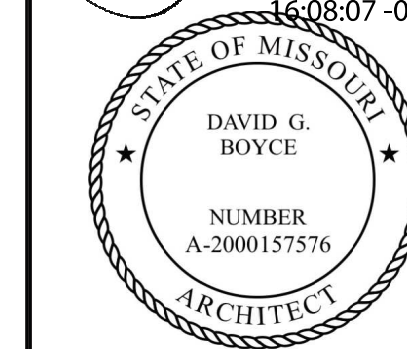
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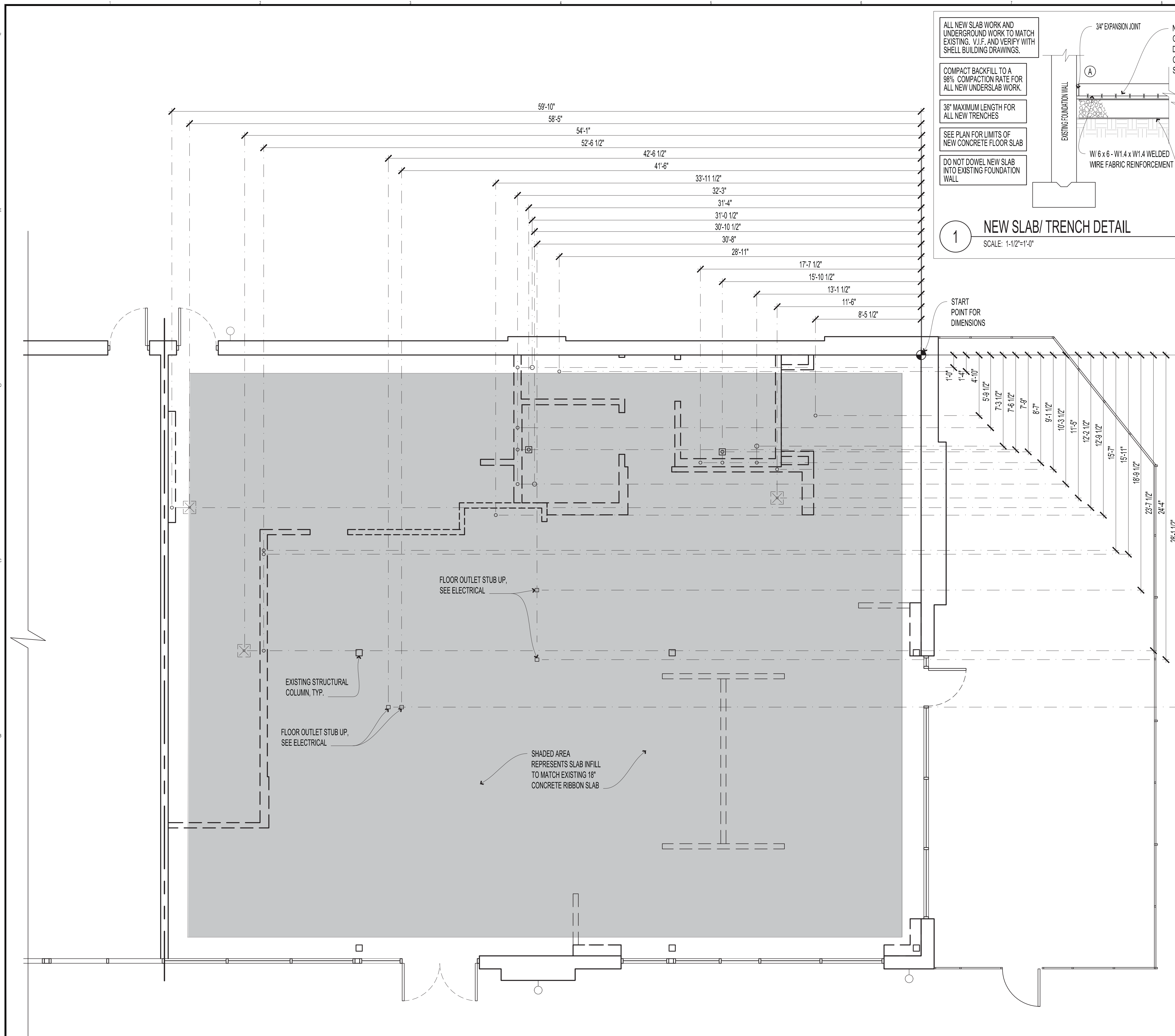
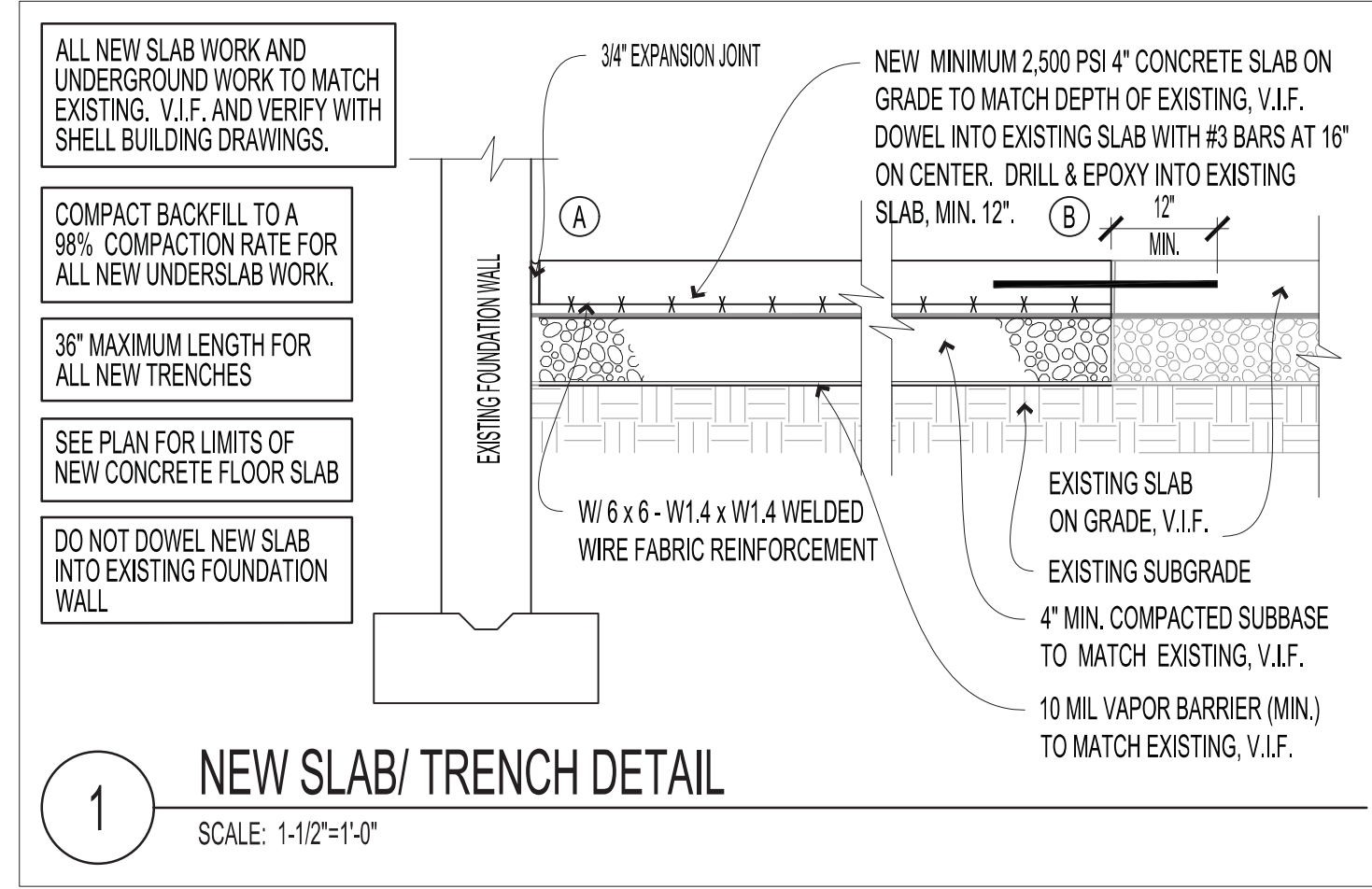
**A-101**  
SLAB PLAN

CHECKED: EM DRAWN: AL

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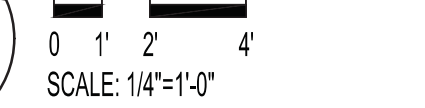
**SHEET NOTES**

1. PROTECT EXISTING MATERIALS, FINISHES AND DEVICES TO REMAIN DURING CONSTRUCTION.
2. SAWCUT EXISTING CONCRETE SLAB & TRENCH TO INSTALL UNDERSLAB CONDUIT & PIPING. PROVIDE NEW CONCRETE SLAB PER DETAIL, 1/A-101. AT TRENCH AREAS IN RESTROOMS AND KITCHEN, POUR BACK CONCRETE FLOOR TO SLOPE TOWARDS FLOOR DRAINS AND FLOOR SINKS WITH 1/4" PER FOOT SLOPE MINIMUM. TAPER AT JOINT WITH EXISTING CONCRETE SLAB TO AVOID TRIP HAZARDS.
3. WHEN NEW SLAB REQUIRED INDICATE AND DIMENSION SLAB CONTROL JOINTS (20' MAXIMUM IN EACH DIRECTION).
4. REFER TO PLUMBING PLAN FOR PENETRATION SIZES AND TYPES.
5. VERIFY ALL EXISTING CONDITIONS PRIOR TO COMMENCEMENT OF WORK AND NOTIFY OWNER OF ANY DISCREPANCIES.
6. DASHED LINES REPRESENT NEW PARTITIONS TO BE CONSTRUCTED AND ARE SHOWN FOR CLARITY IN LOCATING THE SLAB PENETRATIONS.
7. COORDINATE PLUMBING, ELECTRICAL, AND DATA PENETRATIONS WITH FRAMING PLAN. SEE MEP SHEETS.
8. EXTENT OF TRENCHING FOR UNDERGROUND UTILITIES IS NOT INDICATED AND IS CONTRACTOR'S OPTION. MINIMIZE AREA OF TRENCHING REQUIRED. MINIMIZE TRENCHING IN PUBLIC AREAS WHERE POSSIBLE.
9. CONCRETE SLAB TO ALIGN FLUSH WITH EXISTING CONCRETE RIBBON SLAB.



**SHEET SYMBOLS**

- NEW PARTITIONS, SEE A-111
- o SLAB PENETRATION, SEE PLUMBING DRAWINGS
- FLOOR DRAIN, SEE PLUMBING DRAWINGS
- ⊗ FLOOR SINK, SEE PLUMBING DRAWINGS







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Suite 200  
Bellevue, WA 98008

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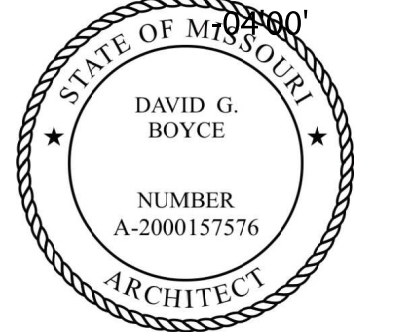
ARCH COA #2015008774  
ENG COA #2005026904

ARCHITECTURE ENGINEERING PERMITTING

220 E. CENTRAL PKWY. STE 4000  
ALTIMONTE SPRINGS, FL 32701  
407.645.5008  
PROJECT NO. 2021.0524

CONSULTANT

Digitally signed by David Boyce  
Date: 2021.10.20 16:08:44  
2021



**MOD LEE'S SUMMIT**  
460 NW CHIPMAN RD  
LEE'S SUMMIT, MO 64086

ISSUED / REVISED DATE  
BUILDING COMMENTS 10.18.21  
DESIGN UPGRADES 10.18.21

PERMIT SET 09.20.21

**A-121**  
REFLECTED CEILING PLAN

CHECKED: EM DRAWN: AL

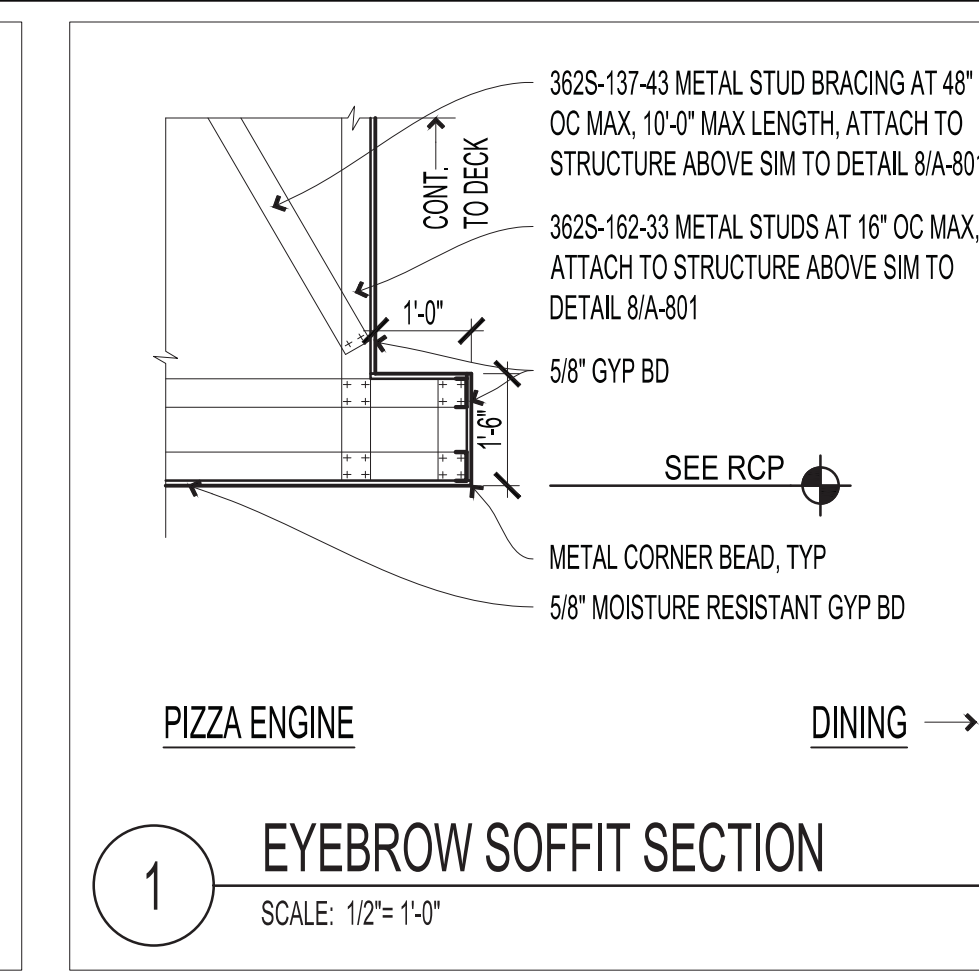
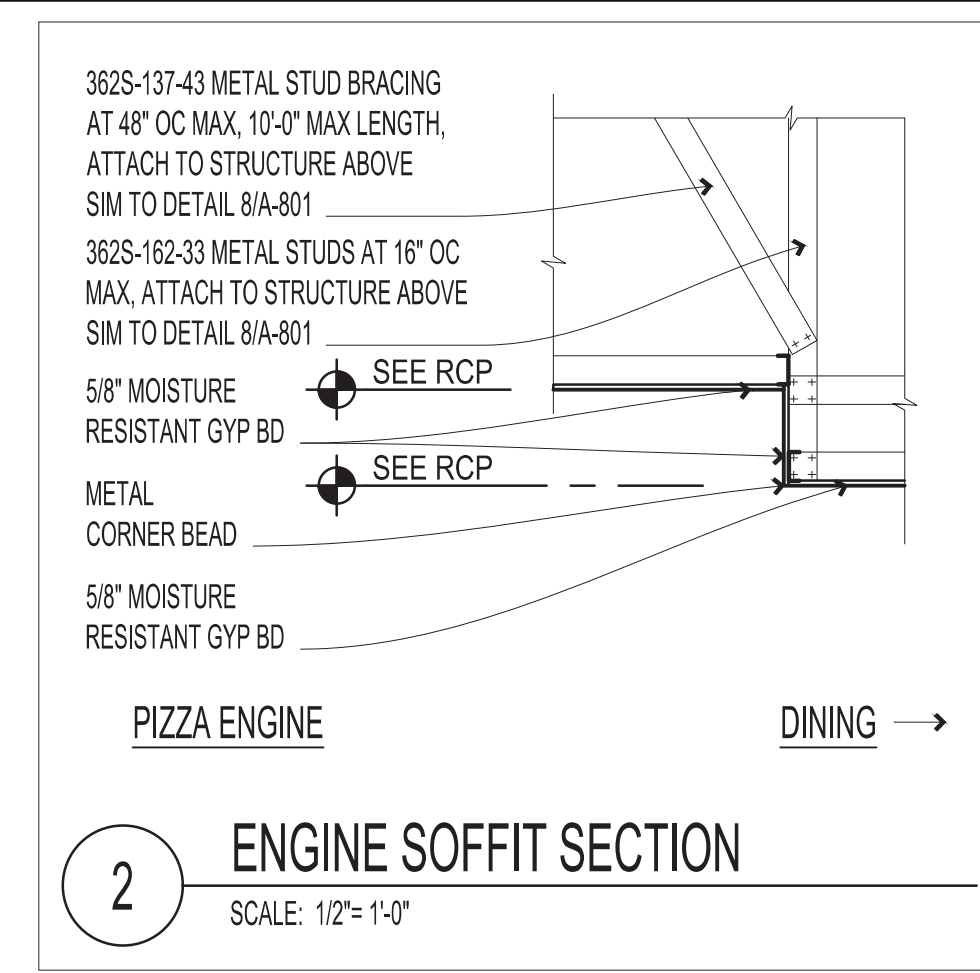
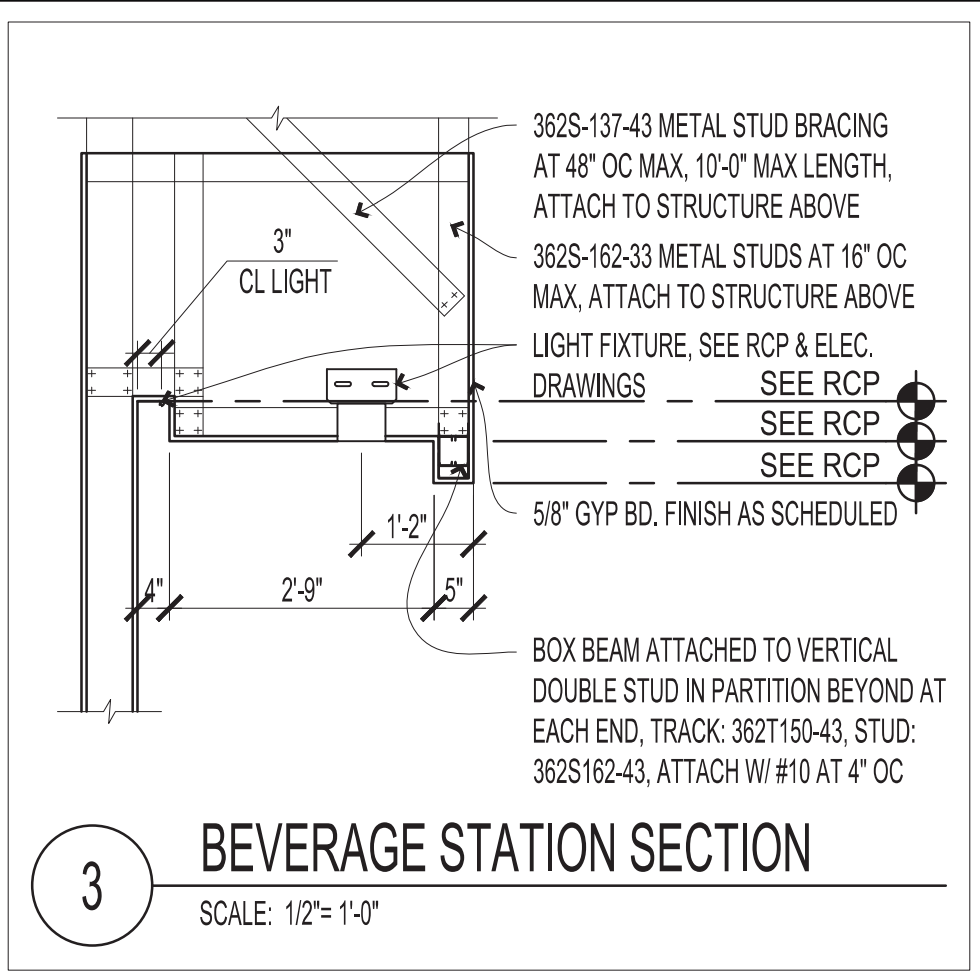
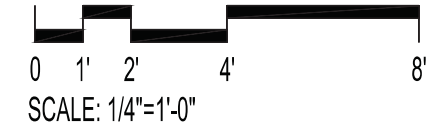
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**SHEET NOTES**

- LIGHTING, ELECTRICAL EQUIPMENT, HVAC EQUIPMENT AND SPRINKLERS TO BE MOUNTED AT POINTS IN ACP AS NOTED IN GRAPHIC BELOW, UON.
- CENTER ACP GRID WITHIN EACH ROOM UON.
- PAINT ALL EXPOSED FIRE SPRINKLER PIPING AND SUPPORTS (PT-117) OR COLOR REQUIREMENT PER FIRE MARSHAL.
- LIGHT FIXTURES TO BE LOCATED AS INDICATED ON THIS PLAN OR CENTERED OVER FIXED DINING TABLES. REFER TO ELECTRICAL DRAWINGS FOR CIRCUITING. REFER TO LIGHT FIXTURE SCHEDULE ON ELECTRICAL SHEETS FOR QUANTITIES. NOTIFY OWNER OF ANY DISCREPANCIES PRIOR TO INSTALLATION.
- LIGHT FIXTURE HEIGHTS ARE INDICATED AS CLEAR ABOVE FINISH FLOOR AND TO BOTTOM OF THE LIGHT FIXTURE, UON. VERIFY FLOOR FINISH THICKNESS PRIOR TO CEILING INSTALLATION.
- LIGHT FIXTURES ARE LOCATED TO CENTERLINE, UON.
- LIGHT FIXTURES OVER FOOD PREPARATION AREAS TO HAVE SHATTER RESISTANT AND CLEANABLE LENSES.
- MECHANICAL DUCT WORK INDICATED FOR REFERENCE ONLY. REFER TO MECHANICAL DRAWINGS FOR LAYOUT, EXHAUST FAN LOCATIONS.
- WHERE NO CEILING FINISH SYSTEM OCCURS:
  - TOP OF MECHANICAL DUCT WORK PARALLEL TO EXISTING STRUCTURE TO BE ROUTED BETWEEN EXISTING STRUCTURE AND 6" MAXIMUM BELOW EXISTING DECK.
  - TOP OF MECHANICAL DUCT WORK CROSSING OR PERPENDICULAR TO EXISTING STRUCTURE TO BE 3" MAXIMUM BELOW BOTTOM OF EXISTING STRUCTURE.
- IN OPEN TO STRUCTURE AREAS, MECHANICAL GRILLE COLOR TO MATCH DUCT COLOR OR PARTITIONS/SOFFIT COLOR WHEN LOCATED IN FACE OF PARTITION/SOFFIT.
- ALL PLUMBING PIPING AND ELECTRICAL CONDUIT AND WIRING TO BE STRAIGHT, NEAT AND HELD TIGHT TO EXISTING DECK OR EXISTING STRUCTURE.
- CEILINGS AND SOFFITS TO BE PLUMB, LEVEL AND SQUARE TO ADJACENT PARTITIONS AND WALLS.
- CEILING AND SOFFIT HEIGHTS ARE INDICATED AS CLEAR ABOVE FINISH FLOOR. VERIFY FLOOR FINISH THICKNESS PRIOR TO CEILING INSTALLATION.
- COORDINATE MECHANICAL, ELECTRICAL AND PLUMBING INSTALLATIONS IN ORDER TO ACHIEVE AND MAINTAIN INDICATED CEILING AND SOFFIT HEIGHTS.
- SPEAKER LOCATIONS, QUANTITIES AND TYPES INDICATED FOR REFERENCE ONLY. REFER TO ELECTRICAL SHEETS FOR SPEAKER INFORMATION.

**SHEET SYMBOLS**

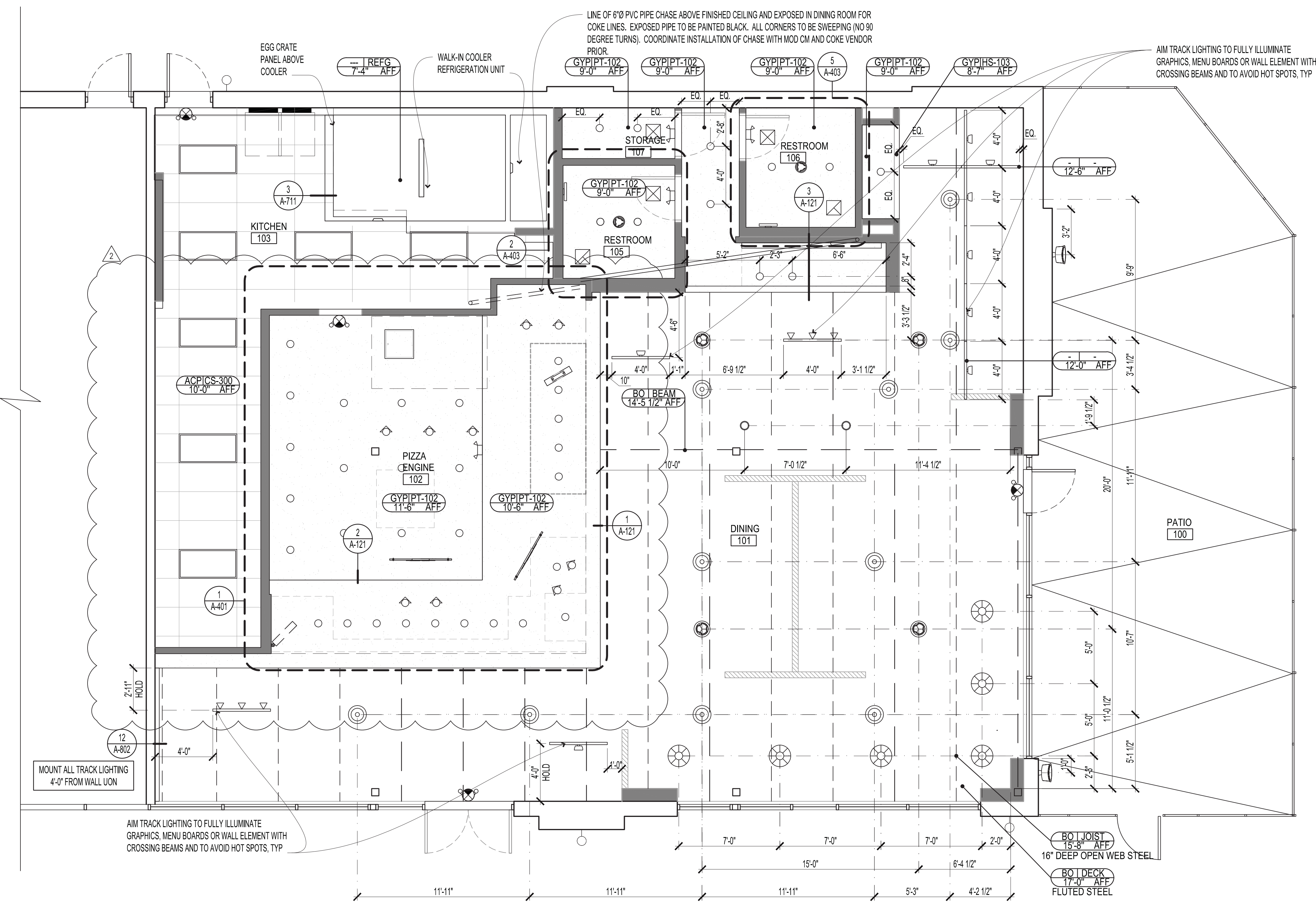
- EXTENT OF ACP CEILING, TO BE INSTALLED PER MANUFACTURE INSTRUCTIONS
- EXTENT OF GYP BD CEILING
- MATERIAL FINISH HEIGHT
- CEILING INDICATOR: SEE A-131 CEILING PANEL, GRID, AND FINISH COLOR



**FIXTURE LEGEND**

SEE ELECTRICAL FOR MORE INFORMATION

○	L-101
◇	L-102
—	L-110 11'-0" AFF
▽	L-111
◊	L-112
—	L-150
—	L-151
○	L-202 12'-0" AFF
○	L-203 9'-0" AFF
□	L-250
—	L-260 6'-10" AFF
—	L-261 7'-4" AFF
⊙	L-460 7'-0" AFF
⊙	L-490 7'-0" AFF
⊙	L-501
⊙	L-503 8'-0" AFF
⊙	L-504 11'-0" AFF
⊙	L-600
⊙	E-512 10'-0" - 12'-0" AFF
⊙	E-513 10'-0" - 12'-0" AFF
⊙	E-514 10'-0" - 12'-0" AFF





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ARCHITECT OF RECORD



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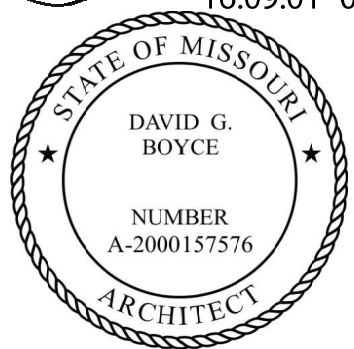
ARCH COA #2015008774  
ENG COA #2005026904

ARCHITECTURE  
ENGINEERING  
PERMITTING

220 E. CENTRAL PKWY. STE 4000  
ALTAMONTE SPRINGS, FL 32701  
407.645.5008  
PROJECT NO. 2021.0524

CONSULTANT

Digitally signed  
by David Boyce  
Date:  
2021.10.20  
16:09:01 -04'00'




**MOD LEE'S SUMMIT**  
460 NW CHIPMAN RD  
LEE'S SUMMIT, MO 64086


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### SHEET NOTES

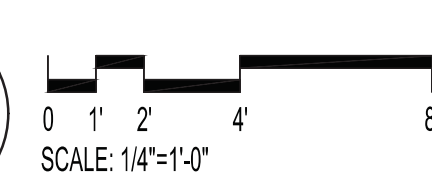
- REFER TO A-121 FOR CEILING AND SOFFIT HEIGHTS.
- ACOUSTIC PANELS MOUNTED TIGHT TO UNDERSIDE OF EXISTING DECK WHERE INDICATED WITH SELF TAPPING SST OVAL-HEAD SCREWS AND 1" DIAMETER SST BEAUTY WASHERS IN CONFIGURATION NOTED IN GRAPHIC BELOW. DO NOT FASTEN INTO UPPER FLUTE OF EXISTING DECK.
- FILL CEILING AREA INDICATED TO RECEIVE ACOUSTIC PANELS TO THE GREATEST EXTENT POSSIBLE USING FULL (48" x 96"), 1/2 OR 1/3 LENGTH PANELS AND FULL OR 1/2 WIDTH PANELS TO MINIMIZE WASTE. DO NOT CREATE COMPLEX CUTS AND SHAPES TO WORK AROUND OBSTRUCTIONS.
- SPACE ACOUSTIC PANELS LENGTHWISE EQUALLY WITHIN EACH EXISTING STRUCTURAL BAY. MAINTAIN EQUAL SPACING DEFINED FOR SPECIFIC STRUCTURAL BAY AT OBSTRUCTIONS WHENWHERE THEY OCCUR. OBSTRUCTIONS MAY NOT BE INDICATED ON PLAN. VERIFY FIELD CONDITIONS PRIOR TO ESTABLISHING ACOUSTIC PANEL TAKE-OFF QUANTITY.
- WHERE ACOUSTIC PANEL IS TO BE INSTALLED, AREAS OF REMAINING EXPOSED DECK TO REMAIN UNFINISHED.

### SHEET SYMBOLS

 **ACOUSTIC CEILING PANEL**  
TAG: CL-100  
ITEM: 2'x4' ACOUSTICAL CEILING PANEL  
MODEL: SELECT SOUND ACOUSTIC BOARD  
SIZE: 2'W X 4'L X 2" THICK  
FINISH: BLACK  
VENDOR: CONTRACTOR PROVIDED

ISSUED / REVISED	DATE
 BUILDING COMMENTS	10.18.21
 DESIGN UPGRADES	10.18.21

PERMIT SET 09.20.21



NORTH

**A-122**

REFLECTED CEILING PLAN -  
BAFFLING

CHECKED: EM DRAWN: AL





# FINISH SCHEDULE

ALL FINISHES FURNISHED AND INSTALLED BY CONTRACTOR UNLESS OTHERWISE NOTED. USE MOD PIZZA NATIONAL ACCOUNT CONTACTS WHERE INDICATED

TAG	ITEM	MANUFACTURER/MODEL	SIZE	FINISH	VENDOR	REMARKS
<b>BASE</b>						
BA-100	RUBBER COVE BASE - 6"	ARMSTRONG / R6161	6TH	*Graphite Gray LRV: 7 Paint Match - SW7062	CONTRACTOR	CONTINUOUS CLEAR SILICON BEAD AT BASE TOP TO WALL FINISH
BA-102	RUBBER COVE BASE - 4"	ARMSTRONG / V4161	4TH	*Graphite Gray LRV: 7 Paint Match - SW7062	CONTRACTOR	EMPLOYEE SIDE OF CASEWORK; CONTINUOUS CLEAR SILICON BEAD AT BASE TOP TO WALL FINISH
<b>CEMENT/ CONCRETE BOARD</b> (CB) 100+						
CB-201	2STONE INDUSTRIAL VENEER	2STONE / INDUSTRIAL VENEER	36"W X 48"L X 5/8"THK	STANDARD GRAY	CONTRACTOR	REQUIRES 5/8" PLYWOOD SUBSTRATE. INSTALL PANELS TO MATCH PATTERN SHOWN. SCREW EACH DIVOT & GLUE TO SUBSTRATE. ALLOW FOR 1/8" REVEAL BETWEEN PANELS. WITH SUBSTRATE PAINTED PT-103 (BLACK). CONCEAL SCREWS AND REVEALS BY CAULKING TO MATCH CONCRETE GREY PANELS. SEAL WITH DRY TREAT STAIN PROOF. PREMIUM IMPREGNATING SEALER. APPLY SEALER PRIOR TO ANY GRAPHIC APPLICATIONS.
<b>CEILING</b>						
CL-100	2X4 ACOUSTIC CEILING PANEL	OWENS CORNING	2'W X 4'L X 2"THK	*White; Vinyl Face LRV: 76	CONTRACTOR	2" THICK
<b>TILE</b>						
CT-106	4X12 WALL TILE - ARCTIC WHITE - MATTE	DAL TILE / COLOR WHEEL LINEAR / 0790	4-1/4"W X 12-3/4"L X 5/16"THK	*10790 Arctic White; Matte LRV: 83	CONTRACTOR	*GROUT: Mapei-47 Charcoal (or) TEC AccuColor EFX Epoxy Special Effects Grout in Charcoal Gray for Oven tile application (high-heat surfaces)*SEE SPEC. SECTION 093000 FOR ADD. INFO.

CT-119	4X12 MATTE COVE BASE - ARCTIC WHITE	DAL TILE / COLOR WHEEL LINEAR / A34C1MOD 4X12CB 0790	4 1/4"W X 12 7/8"L X 5/16"THK	MATTE ARCTIC WHITE	CONTRACTOR	GROUT: MAPEI-47 CHARCOAL
X-CT-223	CEMENT 6X6 TILE - PAVILION II	CEMENT TILE SHOP / PACIFIC CONTEMPORARY COLLECTION PAVILION II	8"W X 8"L X 5/8"THK	PAVILION II	CONTRACTOR	GROUT: MAPEI-47 CHARCOAL (OR) TEC ACCUCOLOR EFX EPOXY SPECIAL EFFECTS GROUT IN CHARCOAL GRAY FOR OVEN TILE APPLICATION (HIGH-HEAT SURFACES); APPLY CLEAR SEALER
<b>COUNTER SURFACE</b>						
CS-201	SOLID SURFACE - YUKON RIVERSTONE	WILSONART / 9196RS	1/2" 30" X 144" SLAB	YUKON RIVERSTONE	CASEWORK	--
<b>FABRIC</b>						
FA-105	VINYL - ROUGE	WOLF GORDON / GOH1278388	54" WIDE	ROUGE - EAST VILLAGE (EAV 8402)	CASEWORK	--
<b>FIBER REINFORCED PLASTIC</b>						
FP-100	FIBER REINFORCED PLASTIC - WHITE	MARLITE / STANDARD P100	4"W X 8" OR 10"L X 3/32"THK	*White; Pebbled Surface LRV: 83	CONTRACTOR	TRIM TO MATCH PANEL COLOR; INSTALL IN KITCHEN
FP-101	FIBER REINFORCED PLASTIC - BLACK	MARLITE / STANDARD P807	4"W X 8" OR 10"L X 3/32"THK	*Black; Pebbled Surface LRV: 0.5	CONTRACTOR	TRIM TO MATCH PANEL COLOR; INSTALL BEHIND BEVERAGE CASEWORK
<b>HOT ROLLED STEEL</b>						
HS-103	HOT ROLLED STEEL - POWDERCOAT	--	--	*Prismatic Powders / PPS-4858 / Flattop LRV: 9 Paint Match - SW7645	CASEWORK OR BFC METALS	USE DIRECTLY ON HOT ROLLED STEEL; DO NOT USE RECOMMENDED BASE COAT
<b>MELAMINE</b>						
ML-100	MELAMINE - WHITE	MEDEX	--	WHITE	CASEWORK	--

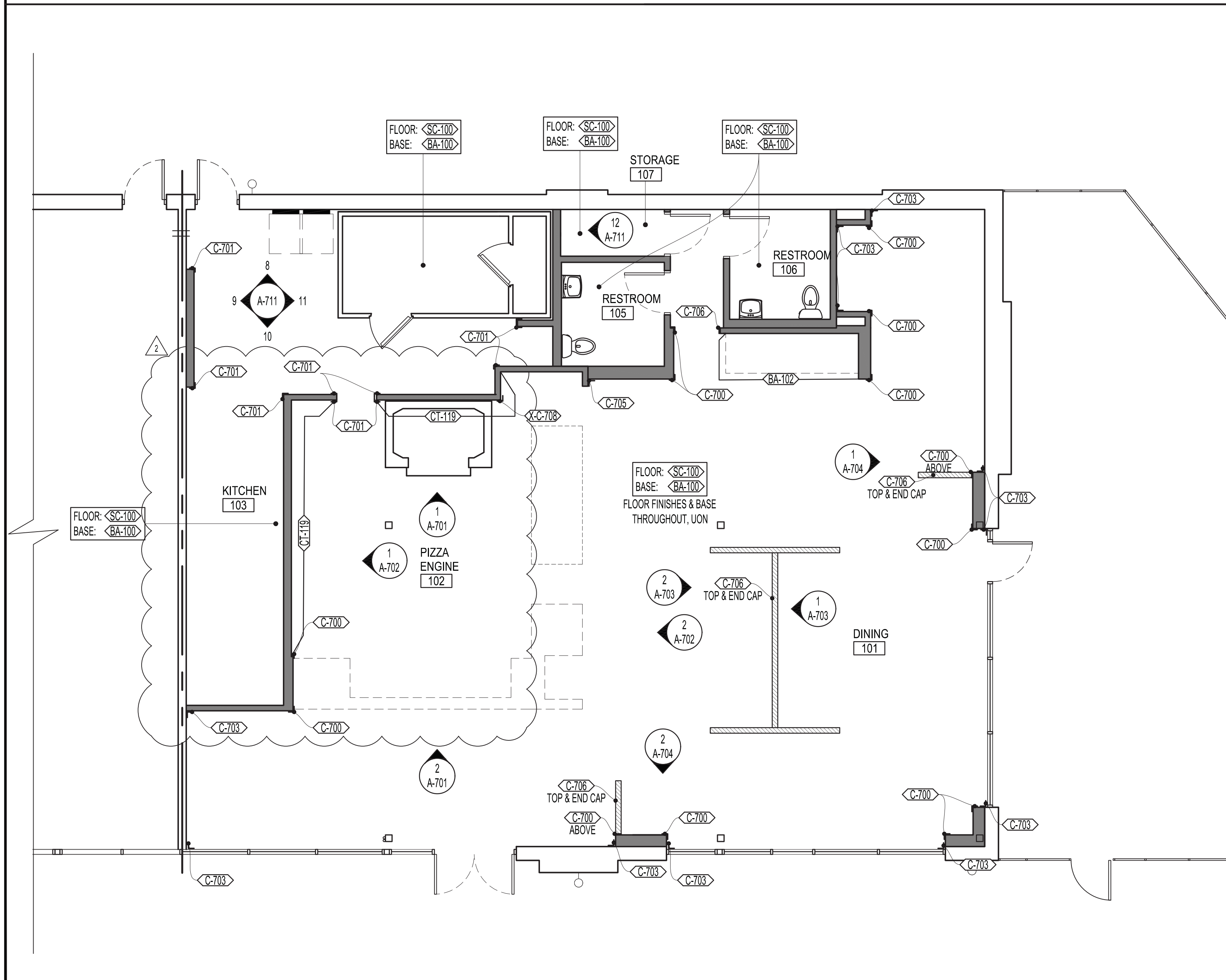
<b>PLASTIC LAMINATE</b>						
PL-105	PLASTIC LAMINATE - BLACK	WILSONART / 1595-60	--	BLACK; MATTE	CASEWORK	--
X-PL-108	PLASTIC LAMINATE - PEPPER ALONA	WILSONART / PEPPER ALONA Y0287	VOL. VERTICAL GRADE LAMINATE, 0287 SHEET SIZE: 4'X8'	PRODUCT TYPE: 362 PATTERN: Y0287-12 FINISH: 12	CONTRACTOR	APPLY FINISH OVER SOLID WOOD RESTROOM DOORS. SEE A-601 FOR DETAILS.
<b>PAINT</b>						
PT-102	PAINT - CEILING BRIGHT WHITE	SHERWIN WILLIAMS / SW7007	--	*Ceiling Bright White; Semi-gloss LRV: 83	CONTRACTOR	REFER TO SHERWIN-WILLIAMS PAINT SCHEDULE GUIDE 2019
PT-103	PAINT - CAVIAR	SHERWIN WILLIAMS / SW6990	--	*Caviar; Semi-gloss LRV: 3	CONTRACTOR	REFER TO SHERWIN-WILLIAMS PAINT SCHEDULE GUIDE 2019
PT-115	PAINT - SHOUJI WHITE	SHERWIN WILLIAMS / SW7042	--	SHOUJI WHITE; SEMI-GLOSS	CONTRACTOR	REFER TO SHERWIN-WILLIAMS PAINT SCHEDULE GUIDE 2019
PT-117	PAINT - SUBWAY	SHERWIN WILLIAMS / CUSTOM MATCH #; 8263-19865 MOD PIZZA TM 0536	--	CUSTOM MATCH COLOR; SEMI-GLOSS	CONTRACTOR	REFER TO SHERWIN-WILLIAMS PAINT SCHEDULE GUIDE 2019
<b>SEALED CONCRETE</b>						
SC-100	SEALED CONCRETE	CONSOLIDECK	--	CONCRETE PROTECTOR; CLEAR	CONTRACTOR	PENETRATING SEALER; USDA APPROVED
<b>STAINLESS STEEL</b>						
ST-100	STAINLESS STEEL PANEL	--	--	#4 FINISH	CONTRACTOR	--
<b>WALL COVERING</b>						
WC-105	WALL COVERING - FOUNDATION - SLATE	WOLF GORDON / FOUNDATION / FDN 5414 / GOH1229467	52"W	SLATE	CONTRACTOR	--
<b>WOOD</b>						
WD-121	ENGINEERED VINYL PLANK - WADDINGTON OAK	CORETEC / V035-00915	8.98" X 72.05" X 8MM	WADDINGTON OAK	CASEWORK	--
X-WD-140	WHITE OAK PANELING	MOUNTAIN LUMBER CO / HARVEST WHITE OAK PANELING - CHARACTER GRADE	7"W X 2" TO 12" RANDOM L X 5/8"THK	DISTRESSED WATER-BASED COLOR	CONTRACTOR	--
<b>WIRE MESH</b>						
WM-103	WIRE METAL MESH - 2" SQUARE	MONICHOLS / 3620302048	2" SQUARE WELDED; 23207 WIRE; 48"X96"	COLD ROLLED STEEL	MONICHOLS	--

# TRIM & WALL PROTECTION SCHEDULE

QUANTITY	TAG	ITEM	MANUFACTURER	SIZE	FINISH	VENDOR/SUPPLIER	REMARKS
<b>TRIM &amp; WALL PROTECTION (CONTRACTOR VERIFY QUANTITIES AND SIZES REQUIRED; CORNER GUARD TO GO FULL HEIGHT OF WALL U.N.O.)</b>							
--	C-700	ANGLED CORNER GUARD - HOT ROLLED STEEL	CASEWORK OR BFC METALS	1-1/2"W X 1-1/2"D X 1/8"	HS-103	CASEWORK OR BFC METALS	START AT TOP OF BASE
--	C-701	ANGLED CORNER GUARD - STAINLESS STEEL	CUSTOM	2"W X 2"D X CUSTOM LENGTH	STAINLESS STEEL	CONTRACTOR	START AT TOP OF BASE
--	C-703	ANGLED CORNER GUARD - INSIDE CORNER	CASEWORK OR BFC METALS	3/4"W X 3/4"D X CUSTOM LENGTH	HS-103	CASEWORK OR BFC METALS	FOR WOOD WALL INSIDE CORNERS
--	C-704	CHAIR RAIL	CASEWORK OR BFC METALS	4"W X 96"L	HS-103	CASEWORK OR BFC METALS	EASED EDGES
--	C-706	WALL CAP STEEL TRIM	CASEWORK OR BFC METALS	CUSTOM WIDTH X CUSTOM LENGTH	HS-103	CASEWORK OR BFC METALS	VERIFY WALL LENGTH & DEPTH WITH PROPOSED FINISHES
--	X-C-708	SCHLUTER QUADEC - DARK ANTHRACITE	SCHLUTER / QUADEC Q-60-TSDA	8-3/16" X 14"W	DARK ANTHRACITE	CONTRACTOR	USE AT DARK TILE CORNERS

# SHEET NOTES

- VERIFY WITH OWNER FOR COMPLIANCE WITH ALL HEALTH DEPARTMENT CONDITIONS OF APPROVAL.
- PROPER PREPARATION OF ALL NEW AND EXISTING SURFACES IN A SATISFACTORY MANNER TO RECEIVE NEW FINISHES. THIS INCLUDES THE DEMOLITION AND REMOVAL OF NECESSARY ITEMS. TOUCH-UP AND/OR REFINISH OF SURFACES DAMAGED BY SUBSEQUENT WORK. ALL WORK SHALL BE PERFORMED IN CONFORMANCE WITH THE MANUFACTURER'S RECOMMENDED INSTALLATION METHODS.
- PAINTER SHALL REMOVE ALL HARDWARE, SWITCH COVERS, ETC. PRIOR TO PAINTING AND BE RESPONSIBLE FOR REINSTALLATION AFTER PAINTING IS COMPLETED.
- ALL FINISHES SHALL BE TOUCHED UP TO CORRECT ANY IMPERFECTIONS AFTER APPLICATION. FIXTURE CONTRACTOR SHALL PROVIDE TO THE GENERAL CONTRACTOR ALL MATERIALS FOR TOUCH UP WORK.
- PAINT SURFACES TO RECEIVE GRAPHICS APPLIED DIRECTLY TO SURFACE OF WALL AT LEAST (1) WEEK PRIOR TO INSTALLATION OF GRAPHIC.
- PAINT FINISH TO TRANSITION AT INSIDE CORNERS THROUGHOUT, UON.
- ALL GWB OUTSIDE CORNERS TO RECEIVE FULL HEIGHT METAL CORNER BEAD.
- NO ELECTRICAL DEVICES, SENSORS, THERMOSTATS, FIRE PROTECTION DEVICES OR LIGHT FIXTURES TO BE LOCATED ON THE GRAPHIC AREAS, OR WITHIN 6" OF WALL GRAPHIC, WALL ARTWORK, MENU BOARDS AND BADGES, UON. NOTIFY OWNER OF ANY DISCREPANCIES PRIOR TO INSTALLATION.
- REFER TO INTERIOR ELEVATIONS FOR WALL FINISHES.



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Bellevue, WA 98008  
ARCHITECT OF RECORD  
**INTERPLAN**  
INTERPLAN LLC  
ARCH COA #2015008774  
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220 E. CENTRAL PKWY. STE 4000  
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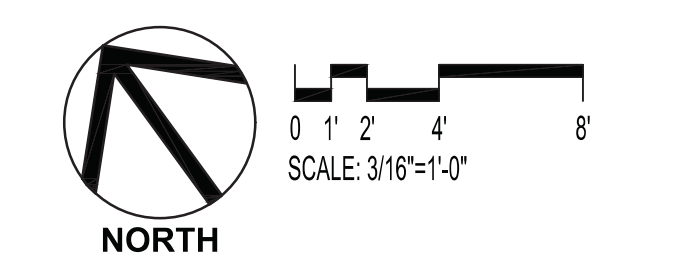
CONSULTANT  
Digitally signed by David Boyce  
Date: 2021.10.20 16:09:19 -04'00'  
STATE OF MISSOURI  
DAVID G. BOYCE  
NUMBER A-2000157576  
ARCHITECT

**MOD LEE'S SUMMIT**  
460 NW CHIPMAN RD  
LEE'S SUMMIT, MO 64086

ISSUED / REVISED DATE  
△ BUILDING COMMENTS 10.18.21  
△ DESIGN UPGRADES 10.18.21

# SHEET SYMBOLS

- X-XXX FINISH TAG
- C-XXX TRIM TAG



PERMIT SET 09.20.21  
**A-131**  
FLOOR FINISH/TRIM PLAN & FINISH SCHEDULE  
CHECKED: EM DRAWN: AL

# EQUIPMENT SCHEDULE

QUANTITY	TAG	ITEM	MANUFACTURER/MODEL	VENDOR	REMARKS
<b>ENGINE</b>					
1	E-102	PIZZA OVEN DIRECT VENT SYSTEM	CAPTIVE AIR SYSTEMS / CUSTOM	CONTRACTOR	SOURCE ONLY FROM CAPTIVE AIRE NW REGION 85
1	E-108-4C	FIRE DECK OVEN - POWDERCOAT - ILLUSION CHERRY	WOOD STONE / FD-6660-RFLGR-R (POWDERCOAT) PRISMATIC POWDERS / PMB 6905	EDWARD DON	EARLY INSTALL REQUIRED; EXTENDED LEAD TIME FOR POWDERCOAT OVENS
1	E-120	DOUGH PRESS	PIZZA EQUIPMENT PROFESSIONALS / PZF30-DF	EDWARD DON	12" BDL FLAT
1	E-121	DOUGH PRESS STAND	FENIX SOL / PRESSSTAND	EDWARD DON	WITH DRAWER, INSERT, DOUGH SPATULA & CASTERS
1	E-130	STAINLESS STEEL TABLE - 15"	FS IMPORTS / CUSTOM	EDWARD DON	---
1	X-E-135	REFRIGERATED COUNTER - 27" WITH HOOD	TRUE MANUFACTURING / TSSU-27-2M-C-ADA-HC	EDWARD DON	8-7/8" CUTTING BOARD, 5" CASTERS
2	E-138	REFRIGERATED COUNTER - 72" WITH FLAT LID	TRUE MANUFACTURING / TSSU-72-30M-B-ST-HC (MODE)	EDWARD DON	8-7/8" CUTTING BOARD, 5" CASTERS
1	E-139	REFRIGERATED COUNTER - 72" WITH HOOD	TRUE MANUFACTURING / TSSU-72-30M-B-ST-HC (MODC)	EDWARD DON	8-7/8" CUTTING BOARD, 5" CASTERS
1	E-144	REACH-IN COOLER - 40"	TURBO AIR / TOM-40S-N	EDWARD DON	CONTRACTOR TO INSTALL CASTERS, LOCKING CASTERS ON FRONT OF CASE
1	E-155	POS SCREEN	PAR / EVERSERV 600	PAR	COMES WITH FINGERPRINT READER
1	E-156	POS PRINTER	EPSON / TM-T78V	POSRG	---
2	E-157	POS INTERNET PRINTER	EPSON / TM-L90 PLUS	POSRG	---
2	E-158	POS CASH BOX	PAR / MB571-03	PAR	(1) ON COUNTER; (1) ON SHELF BELOW COUNTER
1	X-E-165	LOYALTY SCANNER	HONEYWELL / GENESIS 7530G	POSRG	---
1	E-182	UNDERCOUNTER REFRIGERATOR - 24" - LEFT	TRUE / TUC-24-HC-LH	EDWARD DON	WITH RECESSED CASTERS, FRONT BREATHING
1	E-183	UNDERCOUNTER REFRIGERATOR - 24" - RIGHT	TRUE / TUC-24-HC-RH	EDWARD DON	WITH RECESSED CASTERS, FRONT BREATHING
1	X-E-190	DIGITAL PREP STATION	EAGLE GROUP / T3048EIN-2	EDWARD DON	WITH (2) 14" WIRE OVERSHELVES, (1) SOLID UNDERSHELF AND (2) 30" WIRE UNDERSHELVES

1	X-E-209	WOOD TOP PREP TABLE - 48X48	JOHN BOOS & CO / CUSTOM 48X48	EDWARD DON	INSTALL WITH CASTERS
2	X-E-222	SQUEEZE BOTTLE STATION - EIGHT	SERVER / 87340	EDWARD DON	USE WITH ICE OR EUTECTIC ICE PACKS; KEEPS SAUCES COLD FOR UP TO 4 HRS.
1	E-231	LANE/7000 EMV READER	INGENICO / LANE/7000 TAILWIND / CST00166 (BACKPLATE) HILPRO / SWIVEL STAND FOR PAX 5300	PAR	INSTALL ON SWIVEL STAND USING BACKPLATE; SEE INSTALLATION GUIDE
1	X-E-233	CUP DISPENSER	VOLLRATH / K2H	EDWARD DON	INSTALL HORIZONTALLY ON METRO SHELF AT POS
1	E-380	HAND SINK - WALL MOUNTED	FENIX SOL / HS-SEHS-17	EDWARD DON	8" SIDE SPLASH GUARDS, 8" BACKSPLASH
1	E-381	HAND SINK FAUCET	FISHER / 3526	EDWARD DON	DECK MOUNTED, 4" OC
<b>KITCHEN</b>					
1	E-300-LT	WALK-IN COOLER/FREEZER - 16' - LEFT	NORLAKE / MOD PIZZA 8X16 CP-2	EDWARD DON	(2) COMPARTMENT, 36" X 78" DOORS, 36" FREEZER DOOR STRIP CURTAIN, OREGON SEAL
1	E-310	CAPSULE PAK REFRIGERATION UNIT - COOLER	NORLAKE / RCPB10UC-S-4-EV	EDWARD DON	INSTALLED ON TOP OF WALK-IN COOLER; REFER TO INSTALLATION MANUAL
1	E-311	CAPSULE PAK REFRIGERATION UNIT - FREEZER	NORLAKE / RCPF03US-S-4-EV	EDWARD DON	INSTALLED ON TOP OF WALK-IN FREEZER; REFER TO INSTALLATION MANUAL
1	E-320	DISHWASHER	ECOLAB / ES-2000HT	ECOLAB	INTEGRAL VAPOR VENT
1	E-324	CLEAN DISH TABLE - RIGHT	FENIX SOL / 18-COT-26 CLEAN TABLE RIGHT	EDWARD DON	1-1/2" ROLLED EDGE RAISED 2"; 10" BACKSPLASH
1	E-340	THREE COMPARTMENT SINK - LEFT	FENIX SOL / 16-COTS-90 3-COMP SOILED L	EDWARD DON	(3) TUBS, 1-1/2" ROLLED EDGE RAISED 2"; 10" BACKSPLASH
1	E-342	THREE COMPARTMENT SINK FAUCET & SPRAYER	FISHER / 73135	EDWARD DON	SPLASH INTD. SPRING ACTION FLEXIBLE GOOSENECK; WALL BRACKET
1	E-343	THREE COMPARTMENT SINK DISPENSER	SSDC / SINK RITE DOUBLE UNIT	SSDC	CONNECT TO SPRAYER WATER SUPPLY LINE
1	E-360	PREP TABLE - STAINLESS STEEL	FENIX SOL / 16-3-WT30X60C-4	EDWARD DON	1-1/2" STALLION EDGE, 5" BACKSPLASH, MOUNT BOTTOM SHELF W/ #8 X 1 SELF-TAPPING SCREWS 6" AFF. ATTACH TABLE TO PARTITION
1	E-362	PREP SINK - RIGHT	FENIX SOL / 18G-1C1620-D18 10CMP SINK R	EDWARD DON	1-1/2" ROLLED EDGE RAISED 2"; 9" BACKSPLASH
1	E-363	PREP SINK FAUCET	FISHER / 3525	EDWARD DON	SPLASH MOUNTED, 8" OC
1	E-380	HAND SINK - WALL MOUNTED	FENIX SOL / HS-SEHS-17	EDWARD DON	8" SIDE SPLASH GUARDS, 8" BACKSPLASH


1	E-381	HAND SINK FAUCET	FISHER / 3526	EDWARD DON	DECK MOUNTED, 4" OC
4	E-420	SINK TRIP LEVER STRAINER	FISHER / 52434	EDWARD DON	DRINKING WASTE VALVE
1	E-421	TEA BREWER & DISPENSER	BUNN / 36700.0059 TBSQ, 34100.0000 TDC-4	EDWARD DON	WITH HANDLED DISPENSER
1	E-425	BIG STIK - 16" IMMERSION BLENDER	WARING COMMERCIAL / WS860	EDWARD DON	---
1	E-426	DOUGH PRESS BACKUP	DOUGHXPRESS / DMS-2-18	EDWARD DON	(1) PER REGION
2	E-428	COKE BIB RACK	MCCANNIS / IC 44239	COCA COLA	CO2 TANK LOCATED OUTSIDE, SEE PLAN
1	E-430	AUDIT SAFE	AMSEC / DSF2516	EDWARD DON	INSTALL W/ 6" BASE, PROVIDED
1	E-433	CAN OPENER	VOLLRATH / BCC-1	EDWARD DON	MANUAL, QUICK CHANGE
1	E-434	SU NETWORK RACK	TRIPPLITE / SMARTTRACK SRW5UG	RTGPOS	INSTALLED AT MANAGER'S DESK
1	E-510	AUDIO AMPLIFIER	BOSE / POWERSHARE PS602	RTGPOS	LOCATE AT MANAGER'S DESK
1	E-511	AUDIO CONTROL CENTER	BOSE / CONTROLCENTER CC-1	RTGPOS	(2) CONTROLS FOR (2) ZONES; LOCATE ON LEFT WALL OF MANAGER'S DESK
<b>DINING</b>					
1	E-500	SODA MACHINE	CORNELIUS / DF200 PART #621053001	COCA COLA	---
1	E-501	ICE MACHINE	ICE-O-MATIC / GEM0966A	EDWARD DON	CHEWABLE ICE CRYSTALS
2	E-502	JUICE DISPENSER	GRINDMASTER / CRATHCO CERUWARE D25-3	EDWARD DON	(2) 5-GAL CLEAR BOWLS, LOW FOAM IMPELLER
1	E-504	WATER FILTRATION SYSTEM - 1	KINETICO / SMF ICEPRO 600	EDWARD DON	INSTALL AT BEVERAGE CASEWORK UNDER COKE MACHINE
4	E-512	SPEAKER - DINING	BOSE / FREESPACE DS 100F	POSRG	---
2	E-513	SPEAKER - RESTROOM	BOSE / FREESPACE DS 16F	POSRG	---
2	E-514	SPEAKER - PATIO	BOSE / FREESPACE DS 100SE	POSRG	---
<b>STORAGE</b>					
1	E-400	MOP SINK	ELKAY / FLR-3X	CONTRACTOR	2" FREE FLOW DRAIN, 3-1/2" FLAT STRAINER
1	E-401	MOP SINK FAUCET	FISHER / 8253	EDWARD DON	SERVICE SINK FAUCET WITH LONG SPOUT & VACUUM BREAKER
1	E-402	MOP SINK DISPENSER	SSDC / MOP RITE 3	SSDC	CONNECT TO DEDICATED WATER SUPPLY LINE
2	E-451	NAT GAS TANKLESS WATER HEATER	NORITZ / NCC159CDV (GQ-C3259WZFF US NG)	CONTRACTOR	SEE MECHANICAL DRAWINGS

# SHEET NOTES

- REFER TO SHEET A-001 RESPONSIBILITY SCHEDULE FOR SCOPE CLARIFICATION.
- REFER TO MECHANICAL, PLUMBING AND ELECTRICAL DRAWINGS FOR ADDITIONAL SPECIFICATIONS, POWER, DATA, PLUMBING, HVAC, DRAINAGE AND VENTILATION REQUIREMENTS.
- COORDINATE FINAL LOCATIONS AND QUANTITIES OF FIXTURES AND FURNITURE WITH OWNER BEFORE INSTALLATION, INCLUDING COORDINATING POWER, FIXTURE ANCHORAGE AND SLEEVES. SEE ELECTRICAL DRAWINGS FOR ADDITIONAL POWER AND DATA INFORMATION.
- LOCATE FIXTURES AND FURNITURE TO MAINTAIN 36" CLEAR BETWEEN AND A 44" WIDE EGRESS PATH TO EXIT DOOR.
- ALL ITEMS CONTAINED WITHIN THESE CONTRACT DOCUMENTS ARE TO BE THE RESPONSIBILITY OF THE GENERAL CONTRACTOR UNLESS OTHERWISE NOTED.


RELEASE FOR CONSTRUCTION AS NOTED ON PLANS REVIEW DEVELOPMENT SERVICES LEE'S SUMMIT, MISSOURI

10/27/2021



2035 158th CT NE  
Suite 200  
Bellevue, WA 98008

ARCHITECT OF RECORD




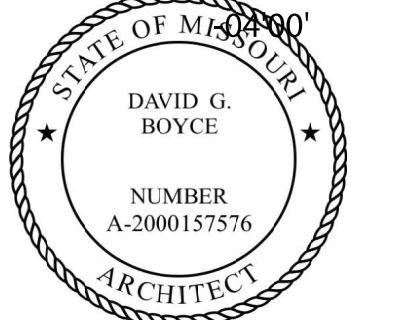
INTERPLAN LLC  
ARCH COA #2015008774  
ENG COA #2005026904

ARCHITECTURE  
ENGINEERING  
PERMITTING



220 E. CENTRAL PKWY. STE 4000  
ALAMONTE SPRINGS, FL 32701  
407.645.5008  
PROJECT NO. 2021.0524

CONSULTANT

Digitally signed by David Boyce  
Date: 2021.10.20 16:09:35

**MOD LEE'S SUMMIT**  
460 NW CHIPMAN RD  
LEE'S SUMMIT, MO 64086

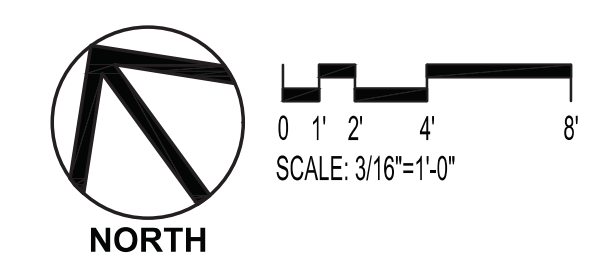
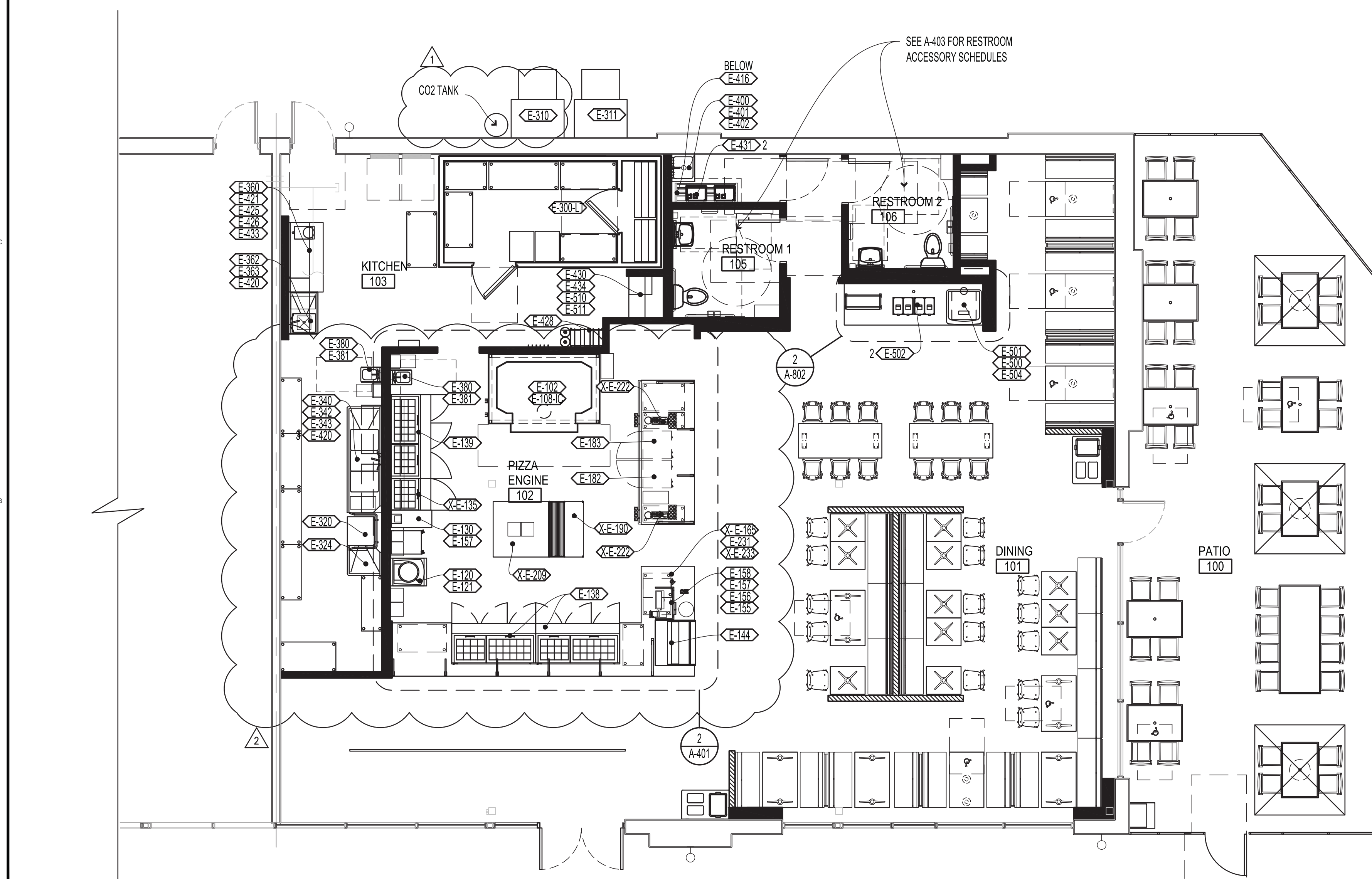
ISSUED / REVISED	DATE
 BUILDING COMMENTS	10.18.21
 DESIGN UPGRADES	10.18.21

 XXXX	EQUIPMENT TAG
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PERMIT SET 09.20.21

**A-132**  
EQUIPMENT PLAN

CHECKED: EM DRAWN: AL



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# MISCELLANEOUS SCHEDULE

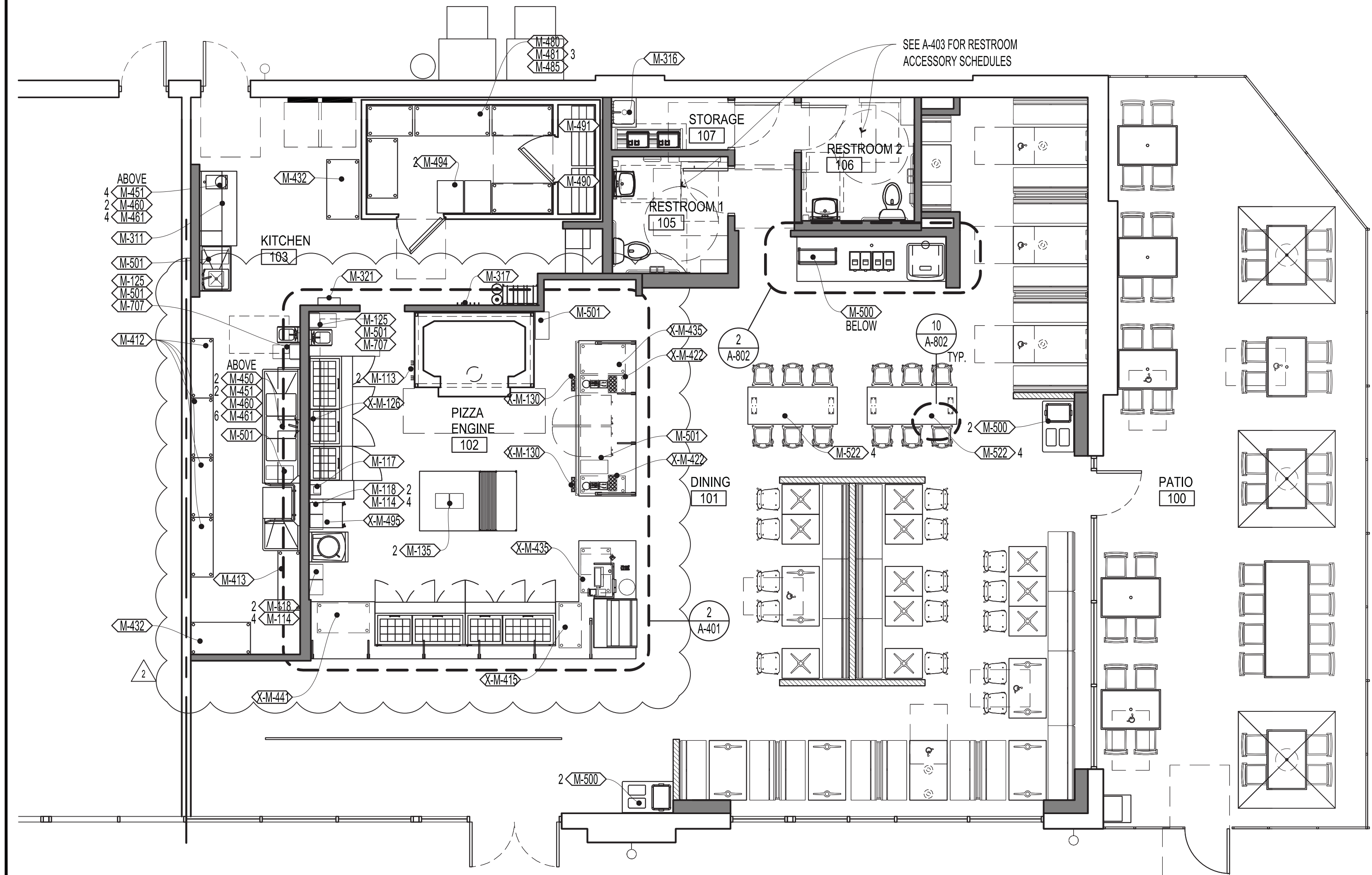
OWNER'S VENDOR FURNISHED ITEMS INSTALLED BY CONTRACTOR UNLESS OTHERWISE NOTED (VENDORS TO VERIFY QUANTITIES PER PLAN).						
QUANTITY	TAG	ITEM	MANUFACTURER	SIZE	VENDOR	REMARKS
ENGINE						
2	M-113	HOOK FOR PIZZA PADDLES	STANLEY NATIONAL HARDWARE / 8007	3" DOUBLE ROBE HOOK	EDWARD DON	(2) PER STORE
8	M-114	PIZZA RACK HOOKS	STANLEY NATIONAL HARDWARE / 8006	2" SINGLE ROBE HOOK	EDWARD DON	(2) PER PIZZA RACK AT UPPER CORNERS
1	M-117	ONLINE ORDER PRINTER SHELF	J&K CONSTRUCTION / CUSTOM	8-18"W X 9-1/2"D X 9-3/8"H	EDWARD DON	--
4	M-118	PIZZA RACK - 15 TIER	AMERICAN METALCRAFT / 19029	12"W X 12"D X 21-1/2"H	EDWARD DON	WALL MOUNTED; (15) SHELVES
1	M-125	HANDS-FREE PAPER TOWEL DISPENSER	TORK / PEAKSERVIE MINI CONTINUOUS HAND TOWEL DISPENSER BLACK	14"W X 4"D X 19"H	EDWARD DON	INSTALL PER INSTALLATION GUIDE; SEE ELEVATIONS FOR ADA MOUNTING HEIGHT
1	X-M-126	STAINLESS STEEL SHELF - 96"	FENIX SOL / WMS12X96	96"W X 12"D X 6.5"H	EDWARD DON	--
2	X-M-130	SPEED RACK CADDY - 12"	CUSTOM	12"W X 3-1/4"D X 6"H	CASEWORK	ATTACH TO CUSTOM RAIL AT EXPO COUNTER
2	M-135	PIZZA RACK - 10 TIER	AMERICAN METALCRAFT / 19033	16"W X 16"D X 21-1/2"H	EDWARD DON	TABLE TOP; (10) SHELVES
1	X-M-495	DOUGH SPEED RACK - HALF SIZE	ADVANCE TABCO / PDB7	26-1/4"W X 26"D X 33-3/4"H	EDWARD DON	SOLID TOP; 7 DOUGH BOX CAPACITY; 5" CASTERS
3	M-501	TRASH CAN - 23 GA	RUBBERMAID / FG354090BLA	22"W X 11"D X 30"H	EDWARD DON	SLIM JIM - WASTE CONTAINER
1	M-707	SOAP DISPENSER	TORK / 570028A	4.4"W X 4.5"D X 11.5"H	PFG	--
KITCHEN						
1	M-125	HANDS-FREE PAPER TOWEL DISPENSER	TORK / PEAKSERVIE MINI CONTINUOUS HAND TOWEL DISPENSER BLACK	14"W X 4"D X 19"H	EDWARD DON	INSTALL PER INSTALLATION GUIDE; SEE ELEVATIONS FOR ADA MOUNTING HEIGHT
1	M-311	MAGNETIC KNIFE HOLDER	MUNDALL / 5512	12"W	EDWARD DON	WITH PLASTIC POUCH
1	M-317	EMPLOYEE COAT HOOK RACK	NYSTROM / UTILITY HOOK RACK 169	19.7"W X 1.9"D X 1.7"H	EDWARD DON	MOUNT 72" AFF; (6) METAL SINGLE HOOKS

OWNER'S VENDOR FURNISHED ITEMS INSTALLED BY CONTRACTOR UNLESS OTHERWISE NOTED (VENDORS TO VERIFY QUANTITIES PER PLAN).						
1	M-321	FIRST AID KIT	ECOLAB / CAREPOD ESSENTIALS FIRST AID KIT W/BIOHAZARD 50225-83-11	18"W X 9"D X 27"H	ECOLAB	INSTALL 48" AFF
3	M-501	TRASH CAN - 23 GA	RUBBERMAID / FG354090BLA	22"W X 11"D X 30"H	EDWARD DON	SLIM JIM - WASTE CONTAINER
1	M-707	SOAP DISPENSER	TORK / 570028A	4.4"W X 4.5"D X 11.5"H	PFG	--
ENGINE (DRY STORAGE)						
1	X-M-415	FLOOR SHELF - 18X36 - 3 TIER	OLYMPIC / J1836C, METRO / ZTP	36"W X 18"D WIRE SHELF 28-3/8" POST	EDWARD DON	INCLUDES (3) WIRE SHELVES AND (4) POSTS
2	X-M-422	FLOOR SHELF - 14X36 - 2 TIER	OLYMPIC / J1436C, METRO / ZTP	14"W X 36"D WIRE SHELF 28-3/8" POST	EDWARD DON	INCLUDES (1) WIRE SHELF, (1) SOLID SHELF AND (4) POSTS
2	X-M-435	FLOOR SHELF - 24X36 - 3 TIER	OLYMPIC / J2436C, METRO / ZTP	24"W X 36"D WIRE SHELF 28-3/8" POST	EDWARD DON	INCLUDES (3) WIRE SHELVES AND (4) POSTS
1	X-M-441	FLOOR SHELF - 24X42 - 3 TIER	OLYMPIC / J2442C, METRO / ZTP	24"W X 42"D WIRE SHELF 28-3/8" POST	EDWARD DON	INCLUDES (3) WIRE SHELVES AND (4) POSTS
KITCHEN (DRY STORAGE)						
4	M-412	FLOOR SHELF - 18X48 - 5 TIER	OLYMPIC / J1848C, 386C	48"W X 18"D WIRE SHELF 86" POST	EDWARD DON	INCLUDES (5) WIRE SHELVES AND (4) POSTS
1	M-413	FLOOR SHELF - 18X60 - 5 TIER	OLYMPIC / J1860C, 386C	60"W X 18"D WIRE SHELF 86" POST	EDWARD DON	INCLUDES (5) WIRE SHELVES AND (4) POSTS
2	M-432	FLOOR SHELF - 24X48 - 5 TIER	OLYMPIC / J2448C, 386C	48"W X 24"D WIRE SHELF 86" POST	EDWARD DON	INCLUDES (5) WIRE SHELVES AND (4) POSTS

OWNER'S VENDOR FURNISHED ITEMS INSTALLED BY CONTRACTOR UNLESS OTHERWISE NOTED (VENDORS TO VERIFY QUANTITIES PER PLAN).						
KITCHEN WALL SHELVES						
2	M-450	WALL SHELF - 42"	OLYMPIC / J1842C	42"W X 18"D	EDWARD DON	WALL MOUNTED
6	M-451	WALL SHELF - 48"	OLYMPIC / J1848C	48"W X 18"D	EDWARD DON	WALL MOUNTED
3	M-460	WALL SHELF BRACKET - DOUBLE	OLYMPIC / J2W18C	18"D	EDWARD DON	IN MIDDLE OF SHELF RUNS
10	M-461	WALL SHELF BRACKET - SINGLE	OLYMPIC / J1W18C	18"D	EDWARD DON	AT ENDS OF SHELF RUNS
WALK-IN COOLER/FREEZER STORAGE						
1	M-480	COOLER SHELF - 24X36 - 4 TIER	OLYMPIC / J2436K, J74K	36"W X 24"D WIRE SHELF 74" POST	EDWARD DON	INCLUDES (4) WIRE SHELVES AND (4) POSTS
3	M-481	COOLER SHELF - 24X48 - 4 TIER	OLYMPIC / J2448K, J74K	48"W X 24"D WIRE SHELF 74" POST	EDWARD DON	INCLUDES (4) WIRE SHELVES AND (4) POSTS
1	M-485	COOLER SHELF - 24X60 - 4 TIER W/ DUNNAGE	OLYMPIC / J2460K, J74K FOCUS FOODSERVICE / FFSM2460GN	60"W X 24"D WIRE SHELF 74" POST	EDWARD DON	INCLUDES (3) OLYMPIC WIRE SHELVES AND (4) POSTS WITH (1) FOCUS FOODSERVICE DUNNAGE SHELF TO BE INSTALLED AT BOTTOM TIER (DUNNAGE HAS 1000 LB CAPACITY)
1	M-490	DUNNAGE RACK - 36"	NEWAGE INDUSTRIAL / 2001	36"W X 18"D X 8"H	EDWARD DON	3000 LB CAPACITY
1	M-491	DUNNAGE RACK - 48"	NEWAGE INDUSTRIAL / 2002	48"W X 18"D X 8"H	EDWARD DON	2500 LB CAPACITY
2	M-494	DOUGH SPEED RACK	CHANNEL MANUFACTURING / RB-4, ELC-69	21"W X 26"D X 70"H	EDWARD DON	END LOAD, 4" SPACING, CAPACITY (15) 18" X 28" PIZZA BOXES, 5" SWIVEL STEM CASTERS, COVER INCLUDED
STORAGE						
1	M-316	MOP & BROOM HOLDER	RUBBERMAID / FG199300 GRAY	34"W X 3.2"D X 4.2"H	EDWARD DON	--
DINING						
5	M-500	TRASH CAN - 15 GA	CARLISLE / 34201523	20"W X 10.3"D X 24.75"H	EDWARD DON	TRIMLINE - RECTANGLE WASTE CONTAINER
8	M-522	PURSE HOOK	SUGATSUNE / HJ-50/SBL	--	CONTRACTOR	MOUNT ON UNDERSIDE OF TABLE 6" FROM EDGE

# SHEET NOTES

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- REFER TO MECHANICAL, PLUMBING AND ELECTRICAL DRAWINGS FOR ADDITIONAL SPECIFICATIONS, POWER, DATA, PLUMBING, HVAC, DRAINAGE AND VENTILATION REQUIREMENTS.
- COORDINATE FINAL LOCATIONS AND QUANTITIES OF FIXTURES AND FURNITURE WITH OWNER BEFORE INSTALLATION, INCLUDING COORDINATING POWER, FIXTURE ANCHORAGE AND SLEEVES. SEE ELECTRICAL DRAWINGS FOR ADDITIONAL POWER AND DATA INFORMATION.
- LOCATE FIXTURES AND FURNITURE TO MAINTAIN 36" CLEAR BETWEEN AND A 44" WIDE EGRESS PATH TO EXIT DOOR.
- ALL ITEMS CONTAINED WITHIN THESE CONTRACT DOCUMENTS ARE TO BE THE RESPONSIBILITY OF THE GENERAL CONTRACTOR UNLESS OTHERWISE NOTED.
- WINDOW SHADE LOCATION & QUANTITY SHOULD BE CONFIRMED BY VENDOR IN FIELD PRIOR TO INSTALL.
- SHELVING FOR REFERENCE ONLY. COORDINATE INSTALLATION WITH OWNER & VENDOR



2035 158th CT NE  
Suite 200  
Bellevue, WA 98008



ARCH COA #2015008774  
ENG COA #2005026904

ARCHITECTURE  
ENGINEERING  
PERMITTING

220 E. CENTRAL PKWY. STE 4000  
ALAMONTE SPRINGS, FL 32701  
407.645.5008  
PROJECT NO. 2021.0524

CONSULTANT

Digitally signed by David Boyce  
Date: 2021.10.20 16:09:53 -04'00'

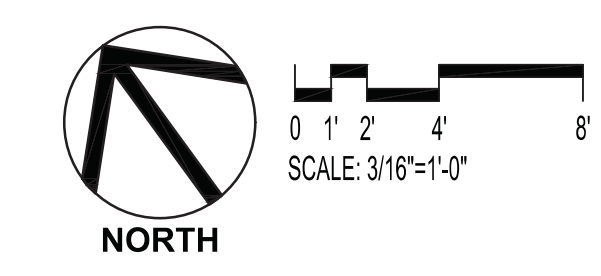


**MOD LEE'S SUMMIT**  
460 NW CHIPMAN RD  
LEE'S SUMMIT, MO 64086

ISSUED / REVISED DATE  
 BUILDING COMMENTS 10.18.21  
 DESIGN UPGRADES 10.18.21

# SHEET SYMBOLS

M-XXX MISCELLANEOUS TAG



PERMIT SET 09.20.21

**A-133**  
MISCELLANEOUS PLAN

CHECKED: EM DRAWN: AL

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# FURNITURE SCHEDULE

OWNER'S VENDOR FURNISHED ITEMS INSTALLED BY CONTRACTOR UNLESS OTHERWISE NOTED. VENDORS TO VERIFY QUANTITIES PER PLAN.

QUANTITY	TAG	ITEM	MANUFACTURER	SIZE	FINISH	VENDOR	REMARKS
<b>TABLE TOPS</b>							
4	F-100-OK	30X24 TABLE TOP - WHITE OAK	CUSTOM	30"W X 24"D X 1-3/4"THK	RESAWN, LIGHTLY TOASTED STAIN	FURNITURE	WOOD TABLETOPS SHOULD BE FINISHED WITH SHERWOOD 30 SHEEN PU TOPCOAT FROM SHERWIN WILLIAMS
8	F-100-SS	30X24 TABLE TOP-SS	CUSTOM	30"W X 24"D X 1-3/4"THK	STAINLESS STEEL TOP, BIRCH PLY SUBSTRATE	CASEWORK	—
5	F-101-OK	30X48 TABLE TOP - WHITE OAK	CUSTOM	48"W X 30"D X 1-3/4"THK	RESAWN, LIGHTLY TOASTED STAIN	FURNITURE	WOOD TABLETOPS SHOULD BE FINISHED WITH SHERWOOD 30 SHEEN PU TOPCOAT FROM SHERWIN WILLIAMS
1	F-101-SS	30X48 TABLE TOP - SS	CUSTOM	48"W X 30"D X 1-3/4"THK	STAINLESS STEEL TOP, BIRCH PLY SUBSTRATE	CASEWORK	—
2	F-102-SS	30X72 TABLE TOP - SS	CUSTOM	72"W X 30"D X 1-3/4"THK	STAINLESS STEEL TOP, BIRCH PLY SUBSTRATE	CASEWORK	—
3	F-111-OK	30X60 TABLE TOP - WHITE OAK	CUSTOM	60"W X 30"D X 1-3/4"THK	RESAWN, LIGHTLY TOASTED STAIN	FURNITURE	WOOD TABLETOPS SHOULD BE FINISHED WITH SHERWOOD 30 SHEEN PU TOPCOAT FROM SHERWIN WILLIAMS
<b>TABLE BASES</b>							
10	F-200	END BASE - 28.5"	J.H. CARR / 1825303KT	22"W X 3" COLUMN, 28.5"H	BLACK SANDEX	EDWARD DON	—
11	F-201	CROSS BASE - 28.5"	J.H. CARR / 1822303KT	22"W X 22"L, 3" COLUMN, 28.5"H	BLACK SANDEX	EDWARD DON	—
6	F-220	BOLT DOWN BASE - 28.5"	FOLDCRAFT / J-28-BL	3" DIA X 28-1/2"H	BLACK SANDEX	EDWARD DON	BOLT DOWN

4	F-242	METAL STRAP LEG BASE - 40.5"	CROW WORKS / 50186	4"W X 10"D X 40-1/2"H	GUNMETAL	CROW WORKS	BOLT DOWN
3	F-280	WALL BRACKET	CASEWORK / CUSTOM	24"L X 1-1/2"H, 7GA THICK	HS-103	CASEWORK	CONTINUOUS CLEAT, 2" LESS WIDTH OF TABLE TOP AT PARTITION. CONTRACTOR TO INSTALL PER 914-804, ATTACH TABLE TOP WITH (3) MIN. SCREWS FROM BELOW
<b>CHAIRS &amp; STOOLS</b>							
15	F-304-BL	AMES CHAIR - BLACK	FOOD SERVICE SEATING / AMES 23-C-2272S-8002	19-1/4"W X 19-1/4"D X 33-1/2"H - 17-3/4"SH	BEECHWOOD VENEER SEAT AND BACK, BLACK POWDERCOAT FRAME	FOODSERVICE SEATING	NYLON GLIDES
12	F-384-WT	TRENTON STACKING STOOL - 30" - METAL SEAT - WHITE	FSS / C0568-MS-8004	12-1/4"W X 12-1/4"D - 30" SEAT HEIGHT	WHITE POWDERCOAT	FSS	NON-MAR FOOT GLIDES, 325LB CAPACITY
<b>BANQUETTE &amp; BOOTH SEATING</b>							
2	F-500-UP	24" BANQUETTE I - UPHOLSTERED SEAT & BACK	CUSTOM	24"W X 21-1/2"D X 36"H	GUNMETAL FRAME (FA105)	FURNITURE	BOLT DOWN
4	F-502-ST	48" BANQUETTE I - UPHOLSTERED SEAT & WOOD BACK	CUSTOM	48"W X 21-1/2"D X 36"H	LIGHTLY TOASTED OAK, GUNMETAL FRAME (FA105)	FURNITURE	BOLT DOWN
3	F-502-UP	48" BANQUETTE I - UPHOLSTERED SEAT & BACK	CUSTOM	48"W X 21-1/2"D X 36"H	GUNMETAL FRAME (FA105)	FURNITURE	BOLT DOWN
4	F-503-ST	60" BANQUETTE I - UPHOLSTERED SEAT & WOOD BACK	CUSTOM	60"W X 21-1/2"D X 36"H	LIGHTLY TOASTED OAK, GUNMETAL FRAME (FA105)	FURNITURE	BOLT DOWN
2	F-503-UP	60" BANQUETTE I - UPHOLSTERED SEAT & BACK	CUSTOM	60"W X 21-1/2"D X 36"H	GUNMETAL FRAME (FA105)	FURNITURE	BOLT DOWN

3	F-612-UP	48" BANQUETTE II - UPHOLSTERED SEAT & BACK	CUSTOM	48"W X 43-1/4"D X 36"H	GUNMETAL FRAME (SPECIFY FABRIC FINISH)	FURNITURE	BOLT DOWN
2	F-613-ST	60" BANQUETTE II - UPHOLSTERED SEAT & WOOD BACK	CUSTOM	60"W X 43-1/4"D X 36"H	LIGHTLY TOASTED OAK, GUNMETAL FRAME (SPECIFY FABRIC FINISH)	FURNITURE	BOLT DOWN

# UPHOLSTERY SCHEDULE

ALL FINISHES FURNISHED AND INSTALLED BY CONTRACTOR UNLESS OTHERWISE NOTED. USE MOD PIZZA NATIONAL ACCOUNT CONTACTS WHERE INDICATED

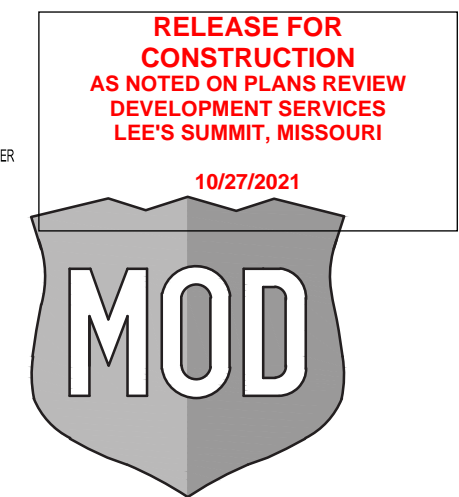
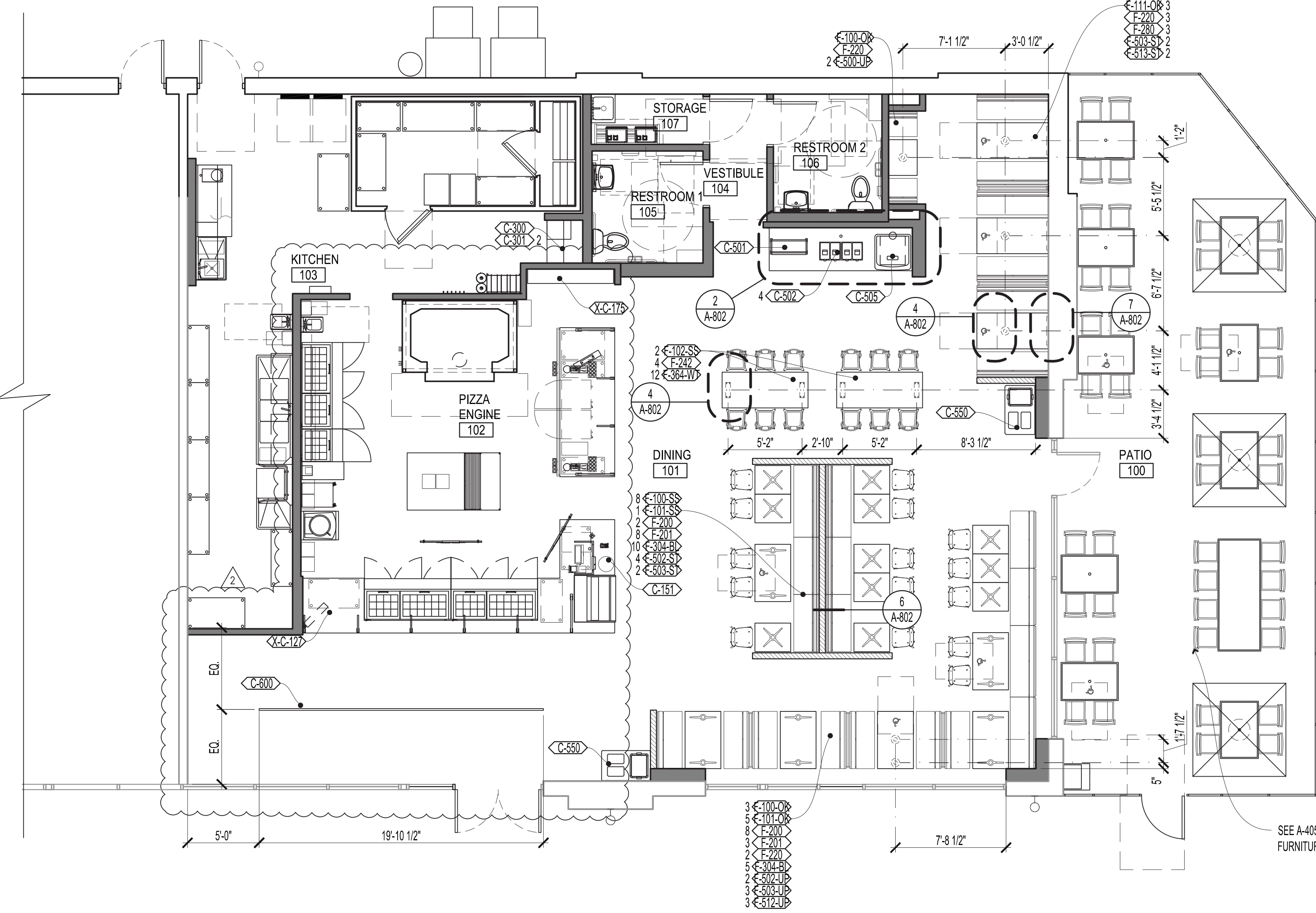
FABRIC							
FA-105	VINYL - ROUGE	WOLF GORDON / GOH12783888	54" WIDE	ROUGE - EAST VILLAGE (EAV 8402)	CASEWORK	—	—

# CASEWORK SCHEDULE

QUANTITY	TAG	ITEM	MANUFACTURER	SIZE	FINISH	VENDOR/SUPPLIER	REMARKS
<b>ENGINE</b>							
1	X-C-127	BOX ENGINE CASEWORK - RIGHT	CUSTOM	—	SEE SHOPS	CASEWORK	—
1	C-151	POS CARD HOLDER	CUSTOM	11-1/4"W X 1"D X 7-3/4" H	HS-103	BFC METALS	FOR CARDS & STICKERS; HUNG ON THE POS SHROUD
1	X-C-175	DIGITAL PICKUP SHELVING SYSTEM - T2"	CUSTOM	72"W X 12"D X 126" H	HS-103 WD-102	CASEWORK	ATTACH TO WALL WITH Z-CLIPS PER VENDOR INSTRUCTIONS; BRACKETS AND WOOD SHELVES INCLUDED; BRACKETS SLIDE INTO GRID SYSTEM
<b>KITCHEN</b>							
1	C-300	MANAGER'S DESK SHELF - 16"	CUSTOM	30"W X 1-8"D X 1-1/2"THK	ML-100	CASEWORK	GROMMET HOLES IN EACH SHELF; SEE KITCHEN ELEVATIONS
2	C-301	MANAGER'S DESK SHELF - 30"	CUSTOM	30"W X 1-8"D X 1-1/2"THK	ML-100	CASEWORK	GROMMET HOLES IN EACH SHELF; SEE KITCHEN ELEVATIONS
<b>DINING</b>							
1	C-501	SHELF W/ UTENSIL HOLDER	CUSTOM	30-1/2"W X 11-1/8"D X 36"H	HS-103	BFC METALS	FOIC, ON TOP OF BEVERAGE STATION COUNTERTOP
4	C-502	METAL JUICE TAGS	CUSTOM	—	HS-103	BFC METALS	FOIC, ON TOP OF BEVERAGE STATION COUNTERTOP; INCLUDES (4) TAGS
1	C-505	BEVERAGE STATION CASEWORK - 10" - RIGHT	CUSTOM	12"W X 36"D X 33"H	CS-201WD-121	CASEWORK	SCRIBE TO FACE OF PARTITION, WHERE OCCURS; SEE A-113
2	C-550	TRASH CART	CUSTOM	41"W X 29"D X 33-3/8"H	CS-201WD-121	CASEWORK	—
1	C-600	METAL QUEUE RAIL	CUSTOM	CUSTOM LENGTH X 43-1/2"H	HS-103	CASEWORK	—

# SHEET NOTES

- REFER TO SHEET A-001 RESPONSIBILITY SCHEDULE FOR SCOPE CLARIFICATION.
- REFER TO MECHANICAL, PLUMBING AND ELECTRICAL DRAWINGS FOR ADDITIONAL SPECIFICATIONS, POWER, DATA, PLUMBING, HVAC, DRAINAGE AND VENTILATION REQUIREMENTS.
- COORDINATE FINAL LOCATIONS AND QUANTITIES OF FIXTURES AND FURNITURE WITH OWNER BEFORE INSTALLATION, INCLUDING COORDINATING POWER, FIXTURE ANCHORAGE AND SLEEVES. SEE ELECTRICAL DRAWINGS FOR ADDITIONAL POWER AND DATA INFORMATION.
- LOCATE FIXTURES AND FURNITURE TO MAINTAIN 36" CLEAR BETWEEN AND A 44" WIDE EGRESS PATH TO EXIT DOOR.
- ALL ITEMS CONTAINED WITHIN THESE CONTRACT DOCUMENTS ARE TO BE THE RESPONSIBILITY OF THE GENERAL CONTRACTOR UNLESS OTHERWISE NOTED.
- GENERAL CONTRACTOR RESPONSIBLE FOR THE INSTALLATION OF FURNITURE AND CASEWORK UNLESS OTHERWISE NOTED.
- FURNITURE AND CASEWORK FOR REFERENCE ONLY. COORDINATE INSTALLATION WITH OWNER & VENDOR



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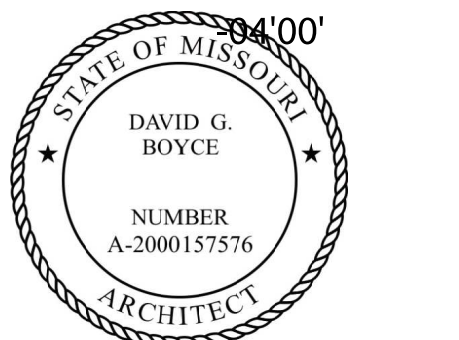
ARCH COA #2015008774  
ENG COA #2005026904

ARCHITECTURE  
ENGINEERING  
PERMITTING

220 E. CENTRAL PKWY, STE 4000  
ALAMONTE SPRINGS, FL 32701  
407.645.5008  
PROJECT NO. 2021.0524

CONSULTANT

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David Boyce  
Date:  
2021.10.20  
16:10:12



**MOD LEE'S SUMMIT**  
460 NW CHIPMAN RD  
LEE'S SUMMIT, MO 64086

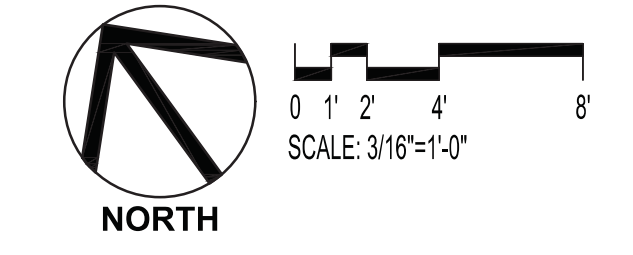
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 △ BUILDING COMMENTS 10.18.21  
 △ DESIGN UPGRADES 10.18.21

# SHEET SYMBOLS

- ◁-XXX CASEWORK TAG
- ◁-XXX FURNITURE TAG

PERMIT SET 09.20.21

**A-134**  
FURNITURE & CASEWORK PLAN



CHECKED: EM DRAWN: AL

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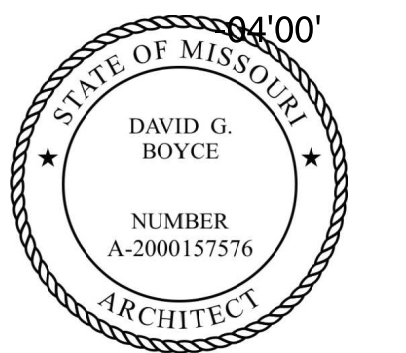
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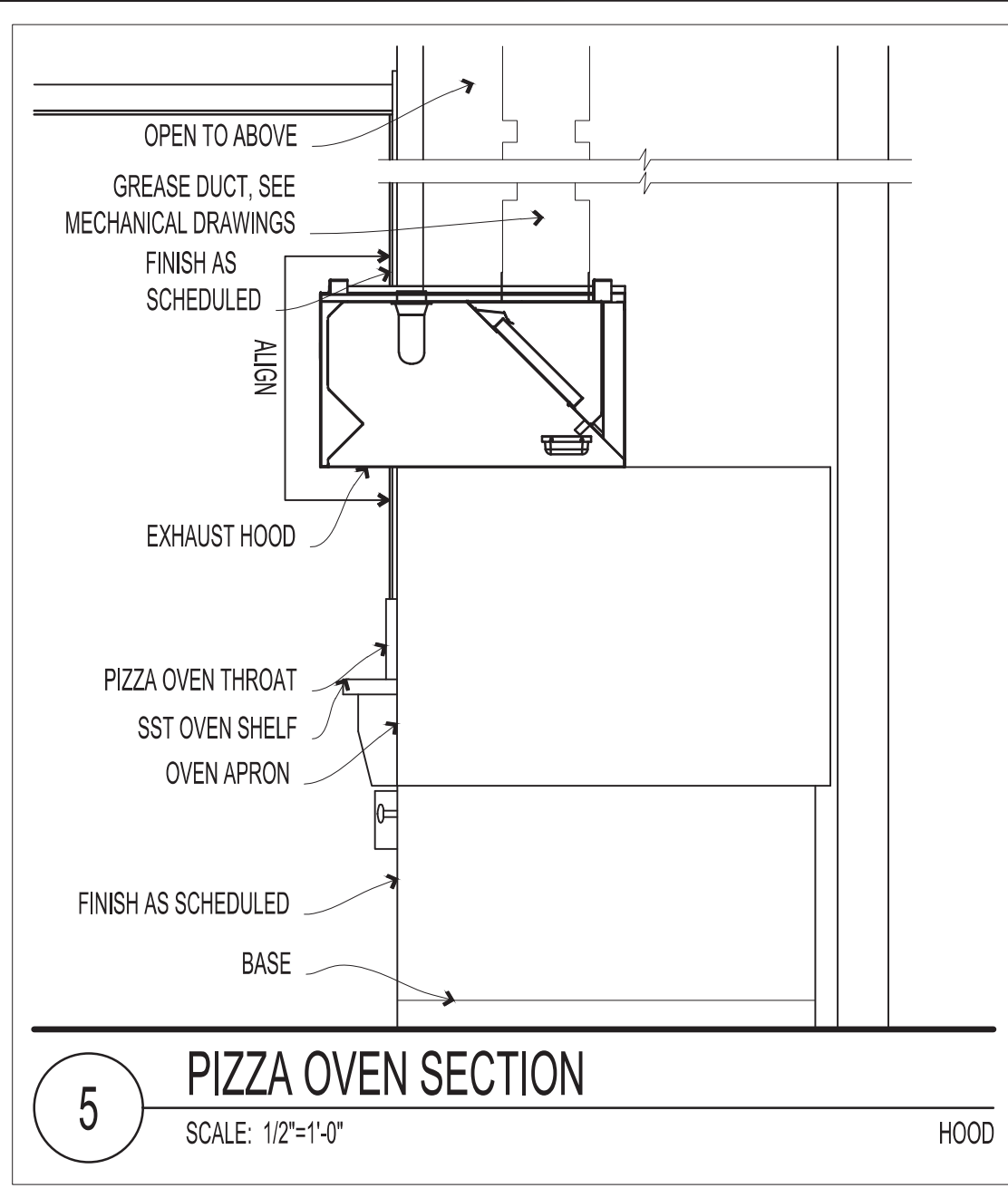
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△ DESIGN UPGRADES	10.18.21

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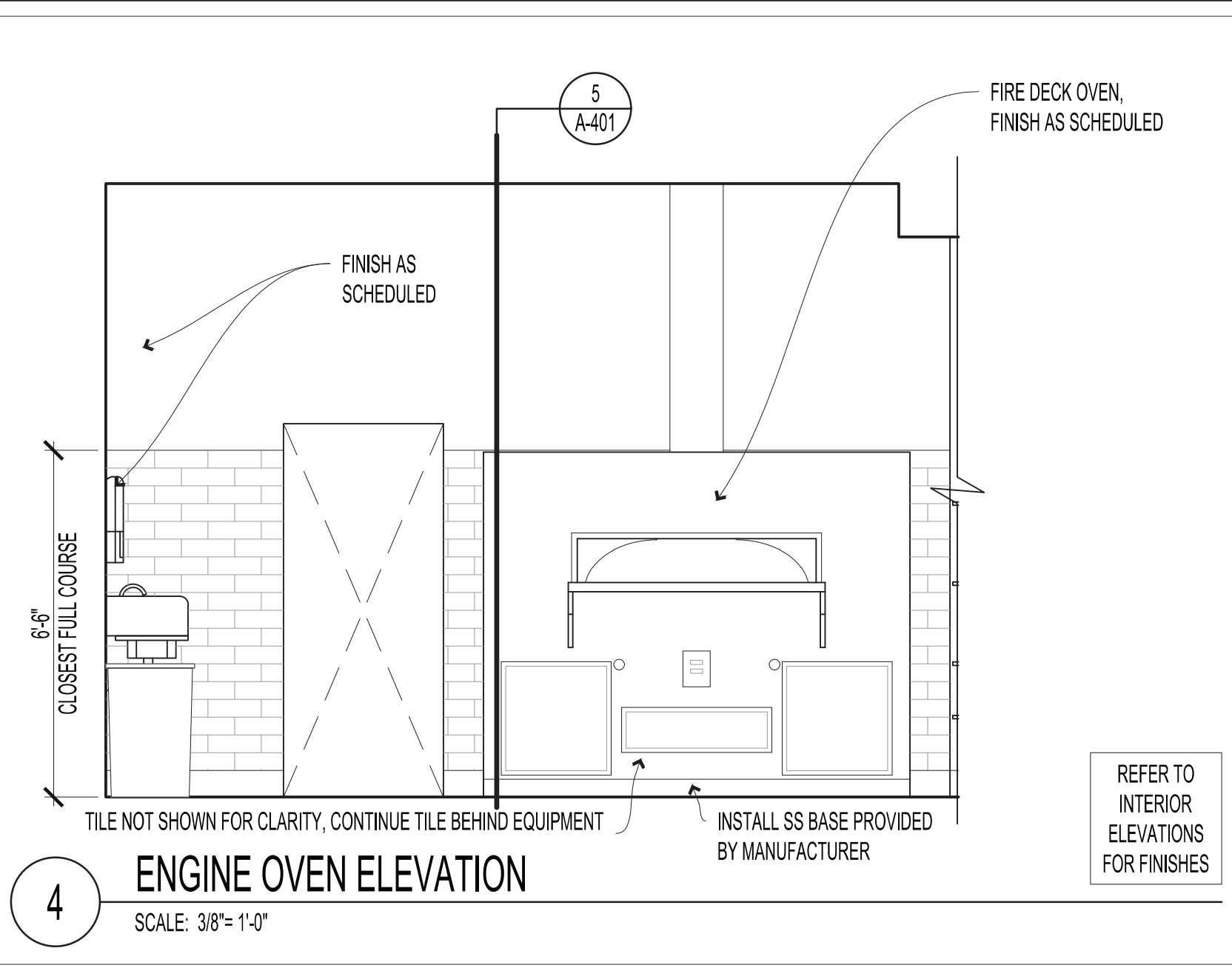
**A-401**  
ENLARGED PLANS AND DETAILS - PIZZA ENGINE

CHECKED: EM DRAWN: AL

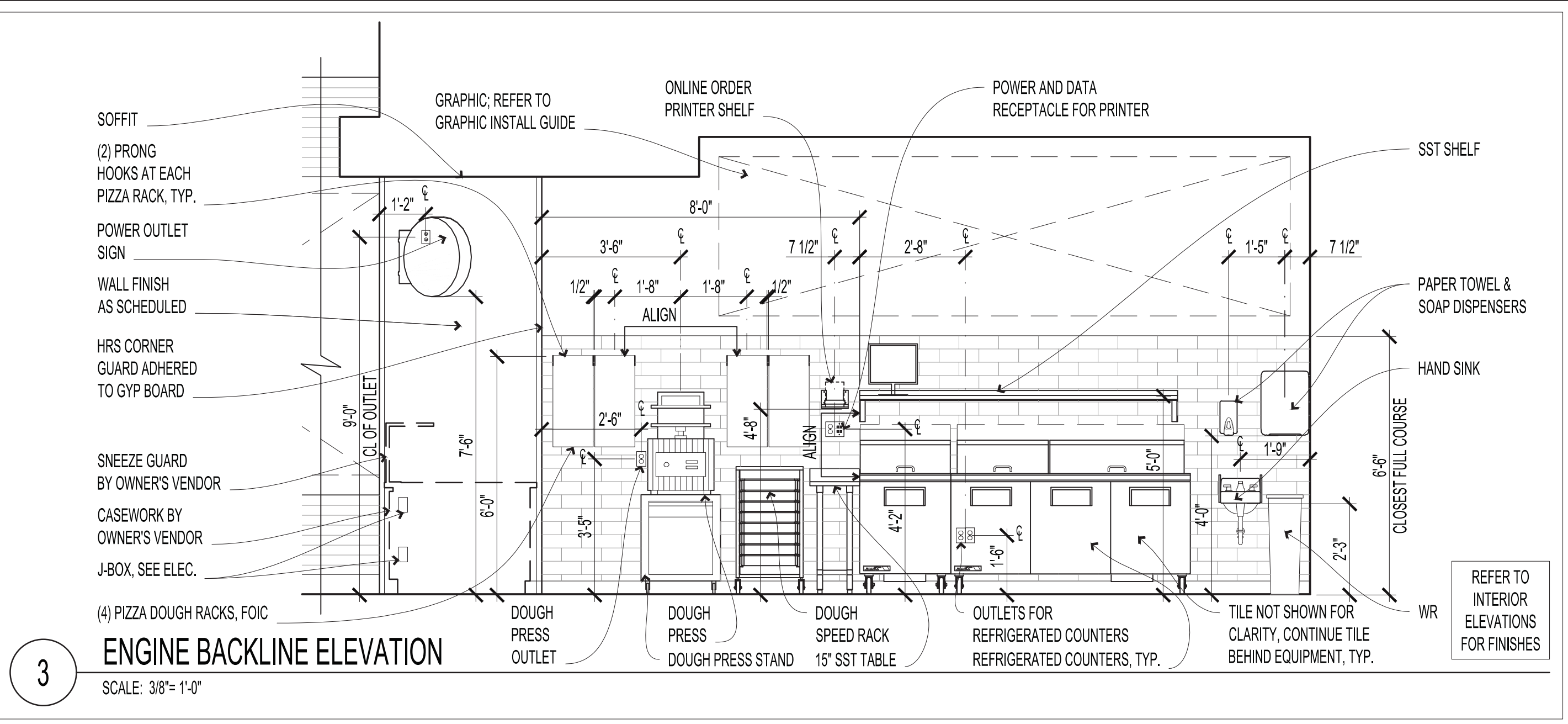
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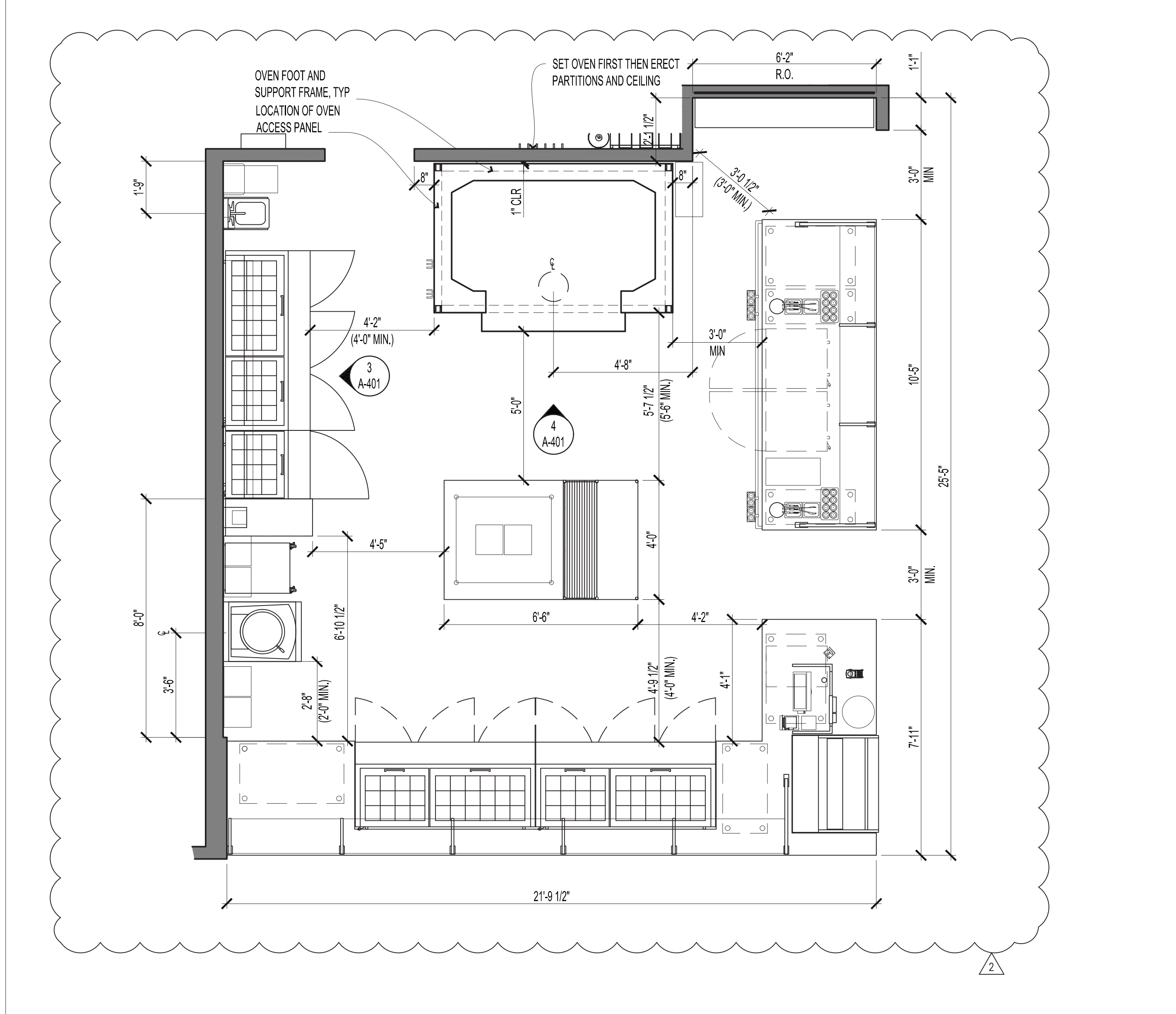
**5 PIZZA OVEN SECTION**  
SCALE: 1/2"=1'-0"



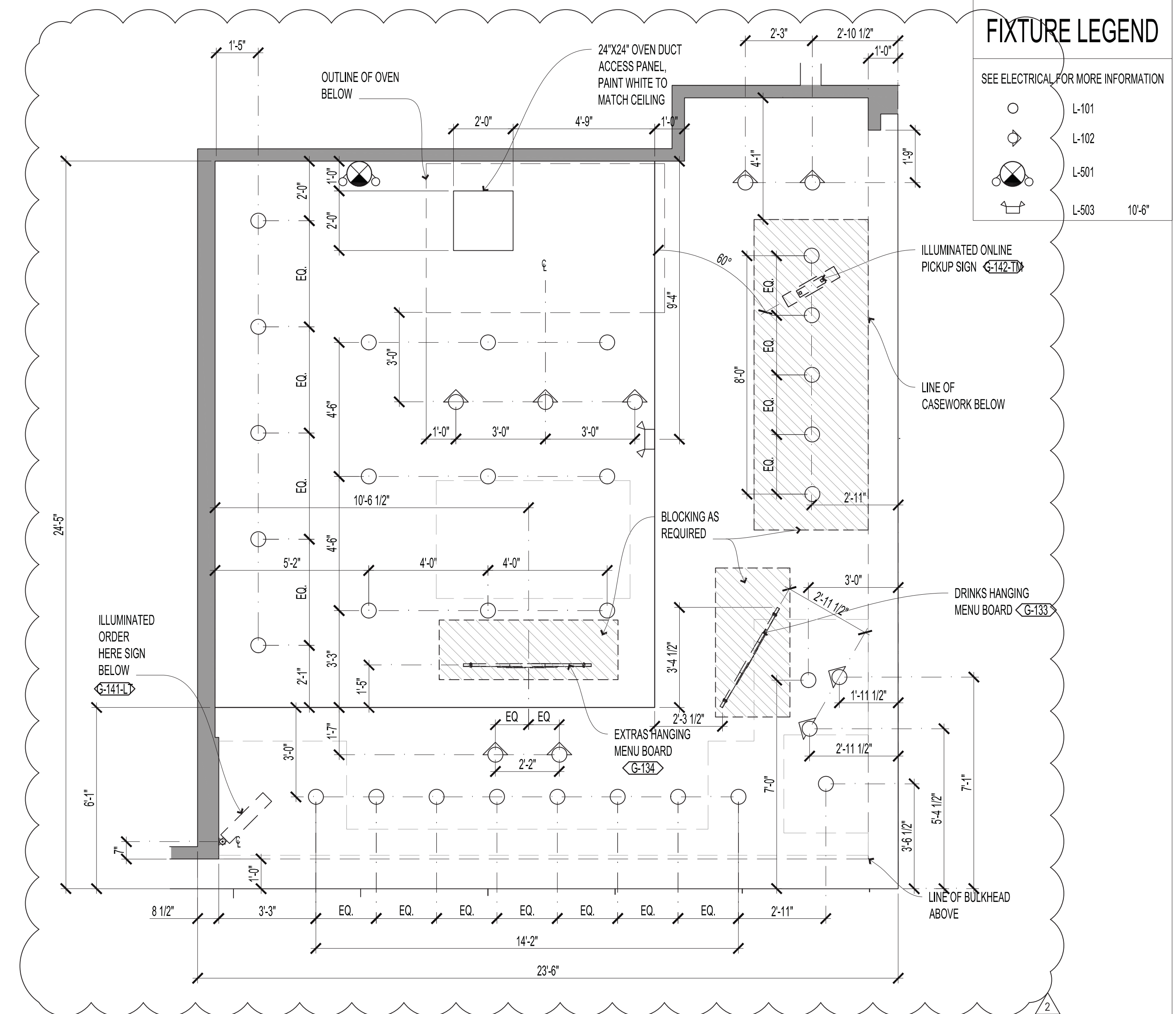
**4 ENGINE OVEN ELEVATION**  
SCALE: 3/8"=1'-0"



**3 ENGINE BACKLINE ELEVATION**  
SCALE: 3/8"=1'-0"



**2 ENLARGED PLAN - PIZZA ENGINE**  
SCALE: 3/8"=1'-0"



**1 ENLARGED REFLECTED CEILING PLAN - PIZZA ENGINE**  
SCALE: 3/8"=1'-0"



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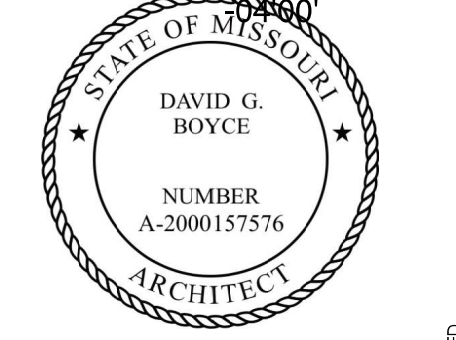
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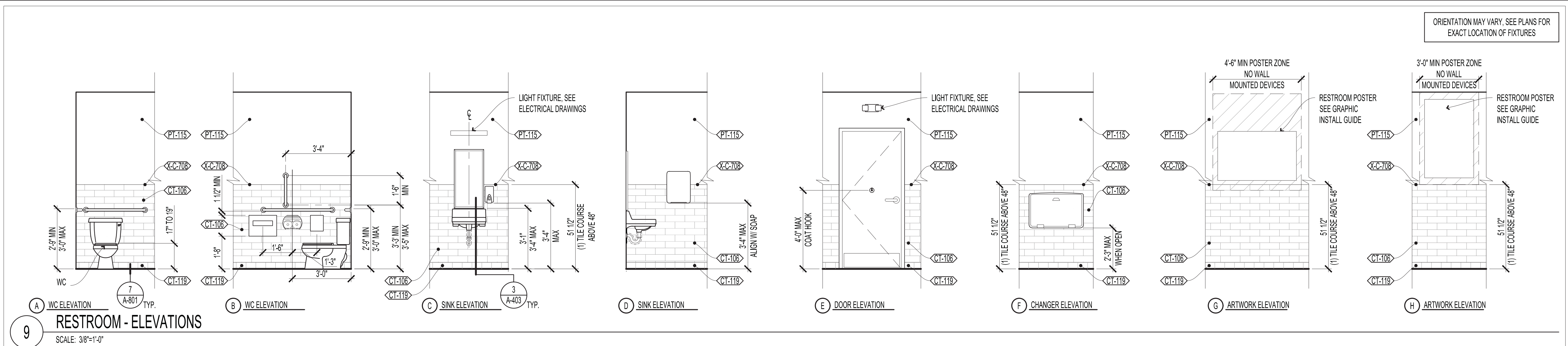
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△ BUILDING COMMENTS	10.18.21
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**A-403**  
ENLARGED PLANS AND DETAILS - RESTROOMS

CHECKED: EM DRAWN: AL



### RESTROOM ACCESSORY SCHEDULE

QUANTITY	TAG	ITEM	MANUFACTURER	SIZE	VENDOR	REMARKS
2	M-125	HANDS-FREE PAPER TOWEL DISPENSER	TORK / PEAKSERVE MINI CONTINUOUS HAND TOWEL DISPENSER BLACK	14"W X 4"D X 19"H	EDWARD DON	INSTALL PER INSTALLATION GUIDE; SEE ELEVATIONS FOR ADA MOUNTING HEIGHT
2	M-700	TOILET PAPER DISPENSER	TORK / 59TR	12.8"W X 5.6"D X 8.3"H	PFG	--
2	M-701	SEAT COVER DISPENSER	BOBRICK / B-221	15-3/4"W X 2"D X 11"H	RESTROOM REMODELS	--
2	M-702	SANITARY NAPKIN DISPOSAL	BOBRICK / B-270	7-1/2" W X 3-13/16"D X 10"H	RESTROOM REMODELS	INSTALL IN BOTH UNISEX RESTROOMS
2	M-703	BABY CHANGING STATION	FOUNDATIONS / 100-EH	34-1/4"W X 4"D X 15-3/8"H	RESTROOM REMODELS	PROTRUDES 11-1/2" WHEN OPEN
2	M-704	GRAB BAR - 42"	BOBRICK / B-5806X42	42"W	RESTROOM REMODELS	HORIZONTAL GRAB BAR
2	M-705	GRAB BAR - 36"	BOBRICK / B-5806X36	36"W	RESTROOM REMODELS	HORIZONTAL GRAB BAR
2	M-706	GRAB BAR - 18"	BOBRICK / B-5806X18	18"W	RESTROOM REMODELS	VERTICAL GRAB BAR
2	M-707	SOAP DISPENSER	TORK / S70028A	4.4"W X 4.5"D X 11.5"H	PFG	--
2	M-710	MIRROR	BOBRICK / B-165 1836	18"W X 12"D X 3/8"H	RESTROOM REMODELS	--
2	M-711	COAT HOOK	LIBERTY / 100170467	3" HEAVY DUTY	EDWARD DON	48" AFF ON INSIDE OF STALL DOOR OR RESTROOM DOOR IN SINGLE USER
2	M-714	LARGE TRASH SWING LID	RUBBERMAID / SWING LID ACC.	--	EDWARD DON	SLIM JIM SWING LID FOR RESTROOMS ONLY
2	M-501	TRASH CAN - 23 GA	RUBBERMAID / FG354061BLA	22"W X 11"D X 30"H	EDWARD DON	SLIM JIM - WASTE CONTAINER

### FIXTURE LEGEND

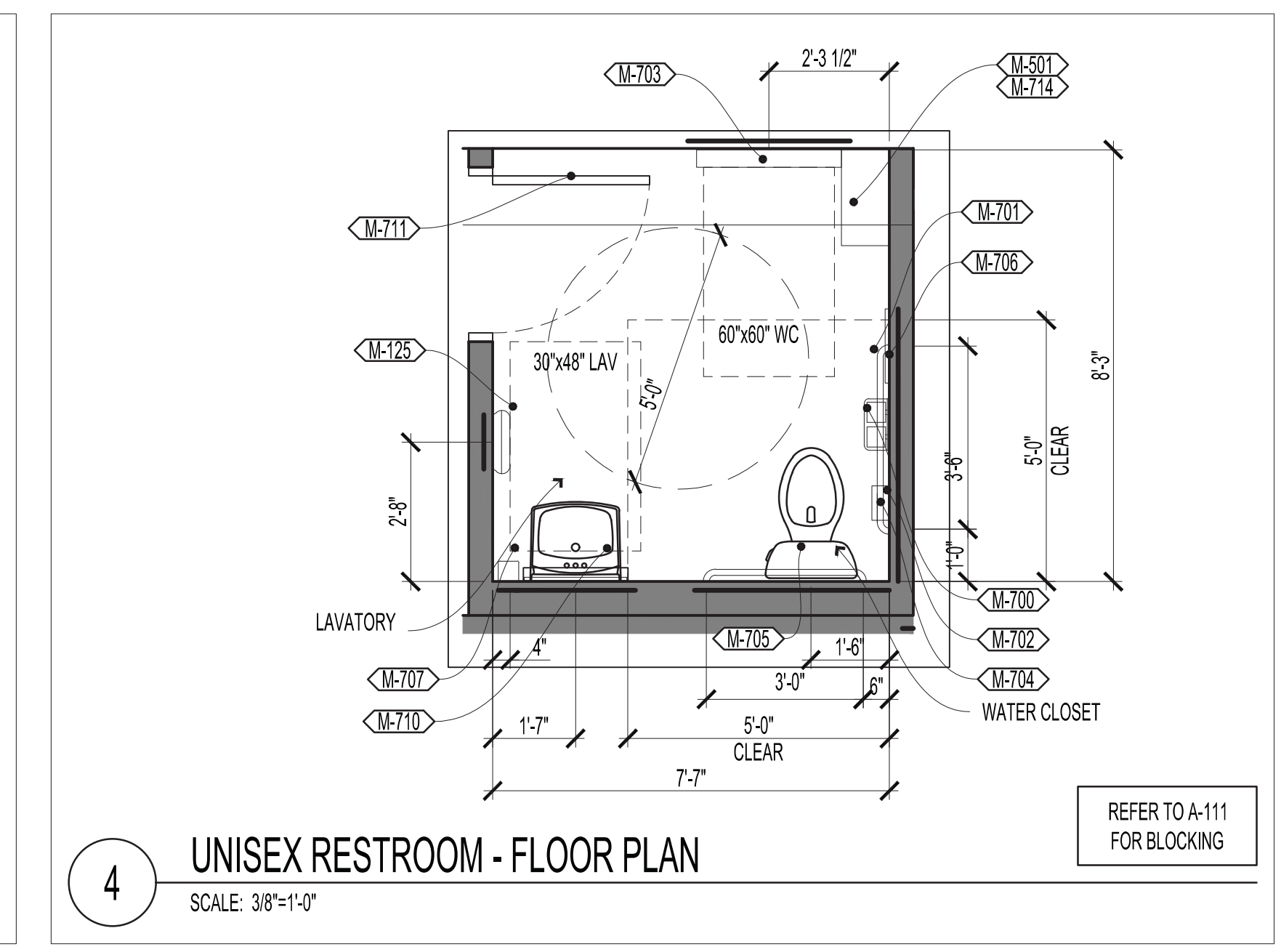
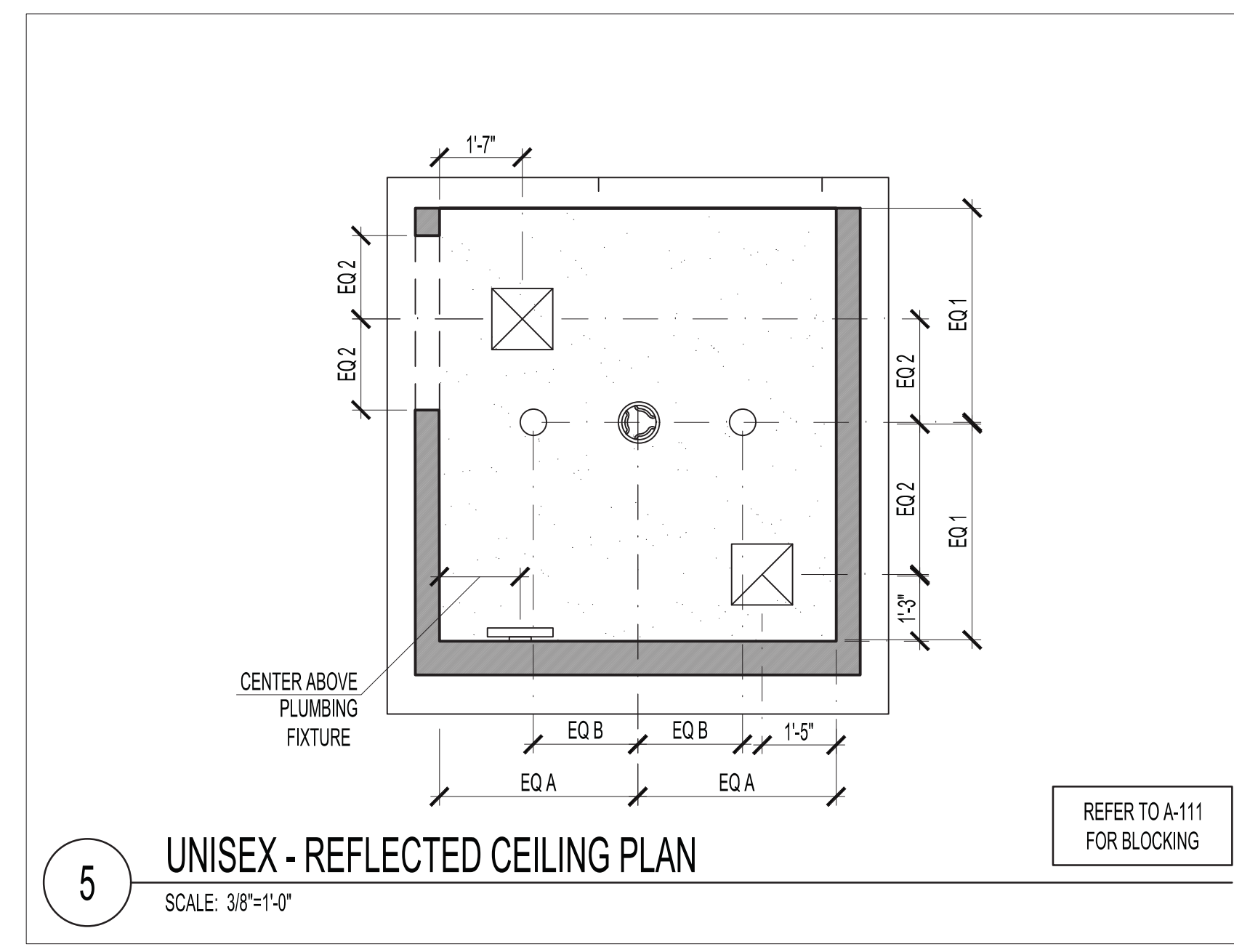
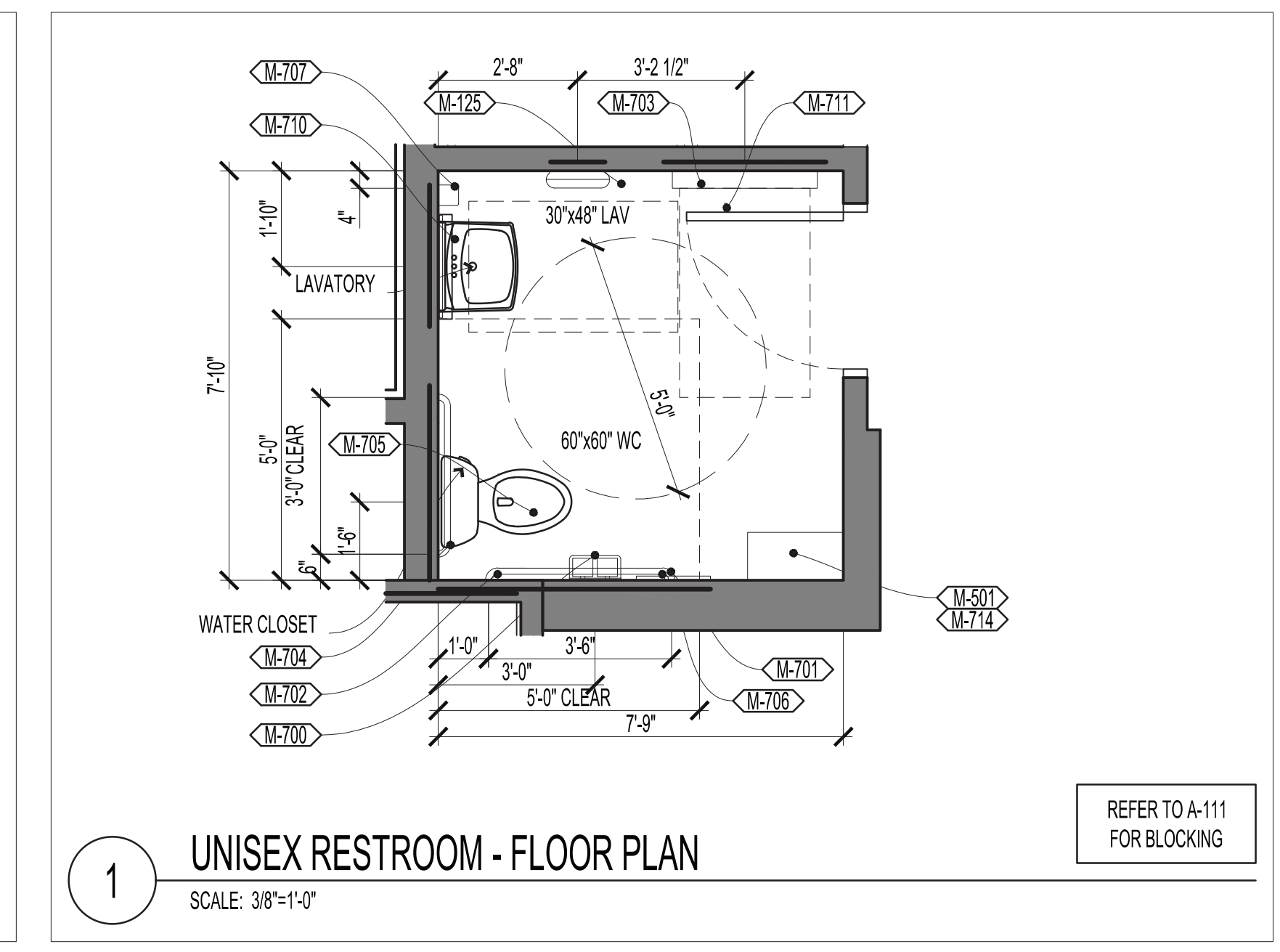
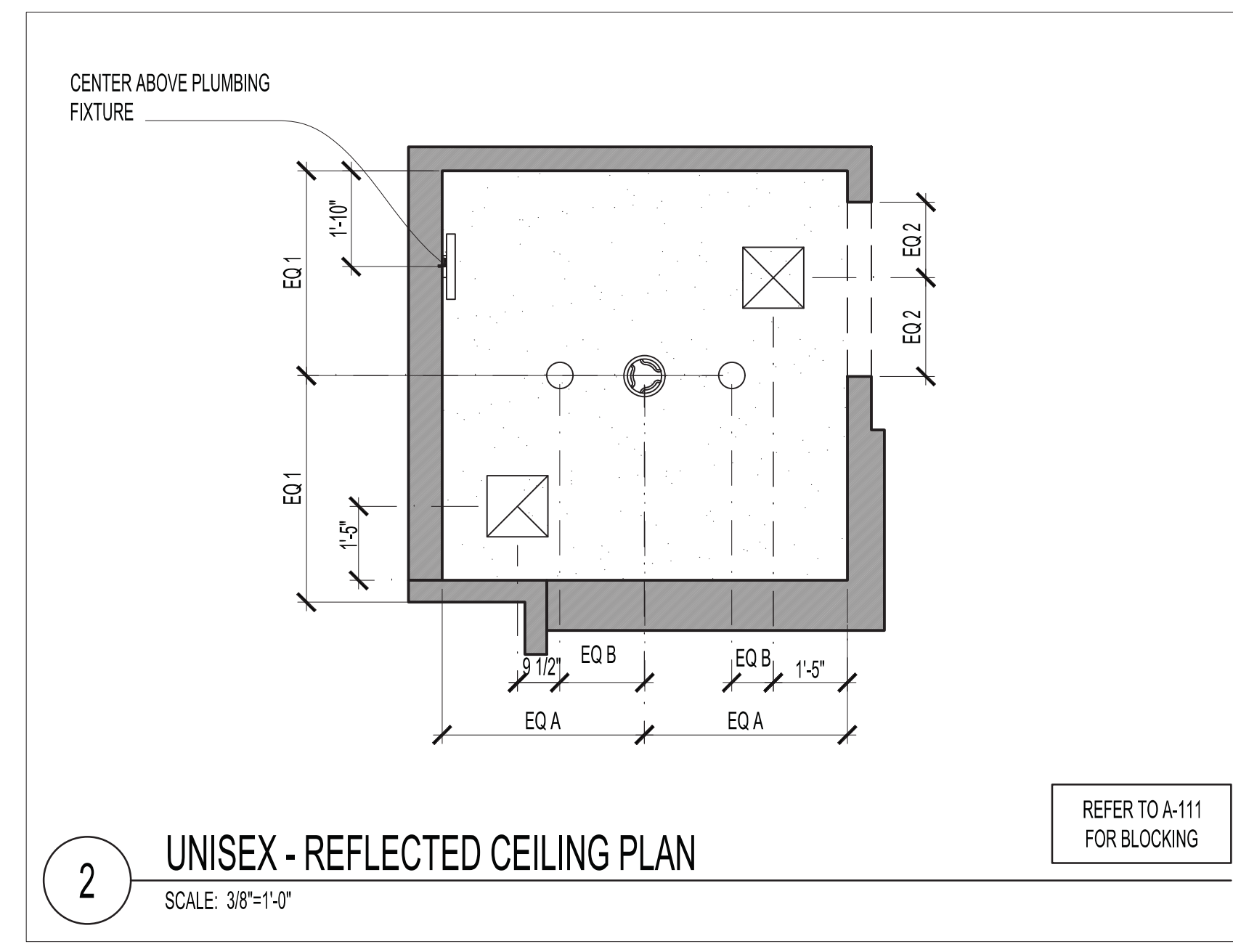
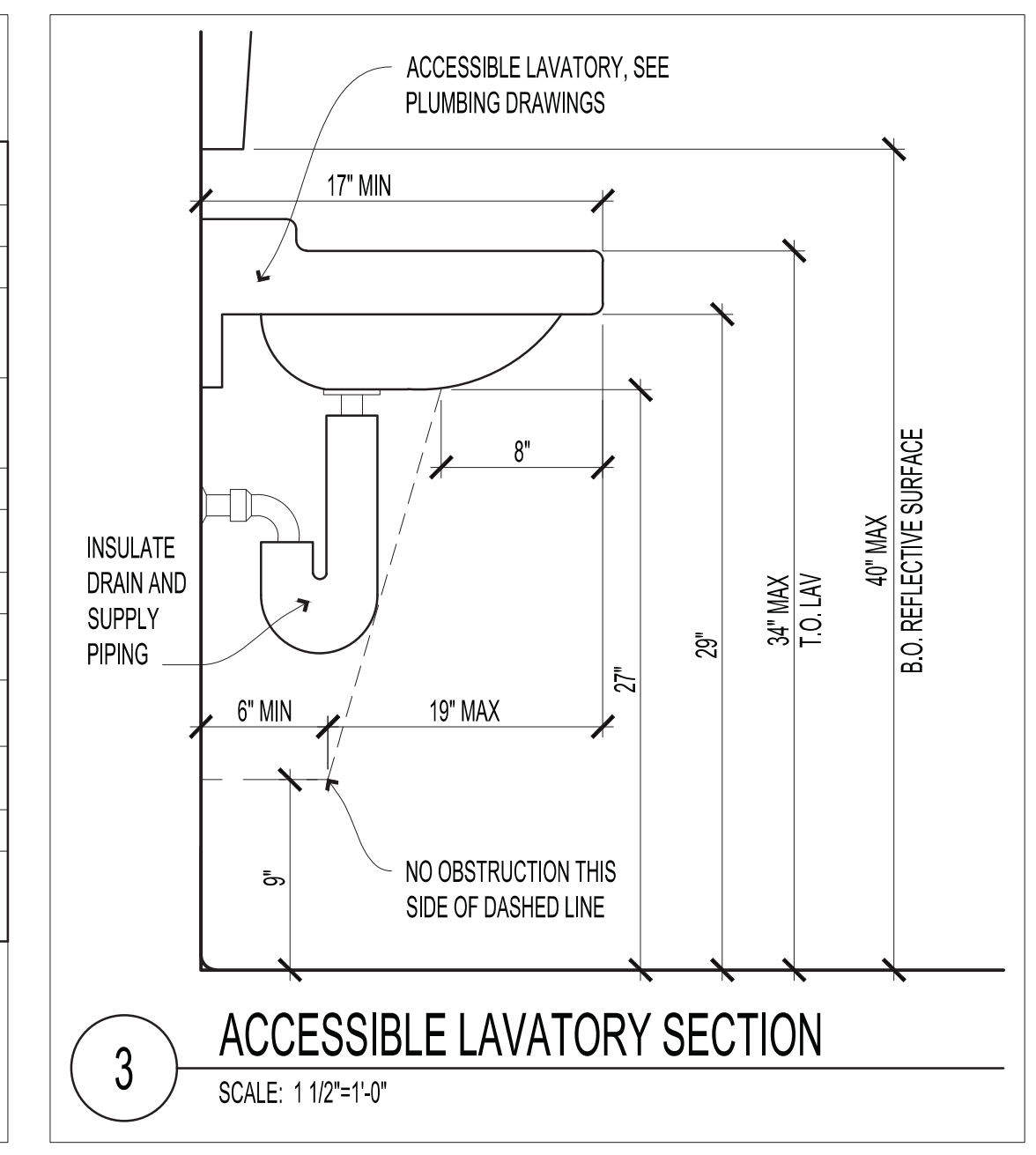
SEE ELECTRICAL FOR MORE INFORMATION

- L-101
- ⊥ L-490 7'-0" AFF
- ⊥ L-503 8'-0" AFF
- ⊙ E-513

### RESTROOM FINISH SCHEDULE

ALL FINISHES FURNISHED AND INSTALLED BY CONTRACTOR UNLESS OTHERWISE NOTED. USE MOD PIZZA NATIONAL ACCOUNT CONTACTS WHERE INDICATED

TAG	ITEM	MANUFACTURER/MODEL	FINISH	REMARKS
<b>TILE</b>				
CT-106	4X12 WALL TILE - ARCTIC WHITE - MATTE	DAL TILE / COLOR WHEEL LINEAR / 0790	0790 ARCTIC WHITE; MATTE	GROUT: MAPEL47 CHARCOAL
CT-119	4X12 MATTE COVE BASE - ARCTIC WHITE	DAL TILE / COLOR WHEEL LINEAR / AS3C1MOD 4X12CB 0790	MATTE ARCTIC WHITE	GROUT: MAPEL47 CHARCOAL
<b>PLASTIC LAMINATE</b>				
PL-101	PLASTIC LAMINATE - CANYON ZEPHYR	WILSONART / 4842-60	CANYON ZEPHYR; MATTE	--
<b>PAINT</b>				
PT-102	PAINT - CEILING BRIGHT WHITE	SHERWIN WILLIAMS / SW7007	CEILING BRIGHT WHITE; SEMI-GLOSS	REFER TO SHERWIN-WILLIAMS PAINT SCHEDULE GUIDE 2019
PT-109	PAINT - LIGHT FRENCH GRAY	SHERWIN WILLIAMS / SW0055	LIGHT FRENCH GRAY; SEMI-GLOSS	REFER TO SHERWIN-WILLIAMS PAINT SCHEDULE GUIDE 2019
PT-115	PAINT - SHOUJI WHITE	SHERWIN WILLIAMS / SW7042	SHOUJI WHITE; SEMI-GLOSS	REFER TO SHERWIN-WILLIAMS PAINT SCHEDULE GUIDE 2019
<b>SEALED CONCRETE</b>				
SC-100	SEALED CONCRETE	CONSOLIDECK	CONCRETE PROTECTOR, CLEAR	PENETRATING SEALER; USDA APPROVED



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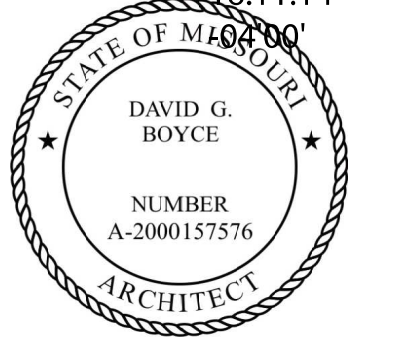
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407.645.5008  
PROJECT NO. 2021.0524

CONSULTANT

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**MOD LEES SUMMIT**  
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LEES SUMMIT, MO 64086

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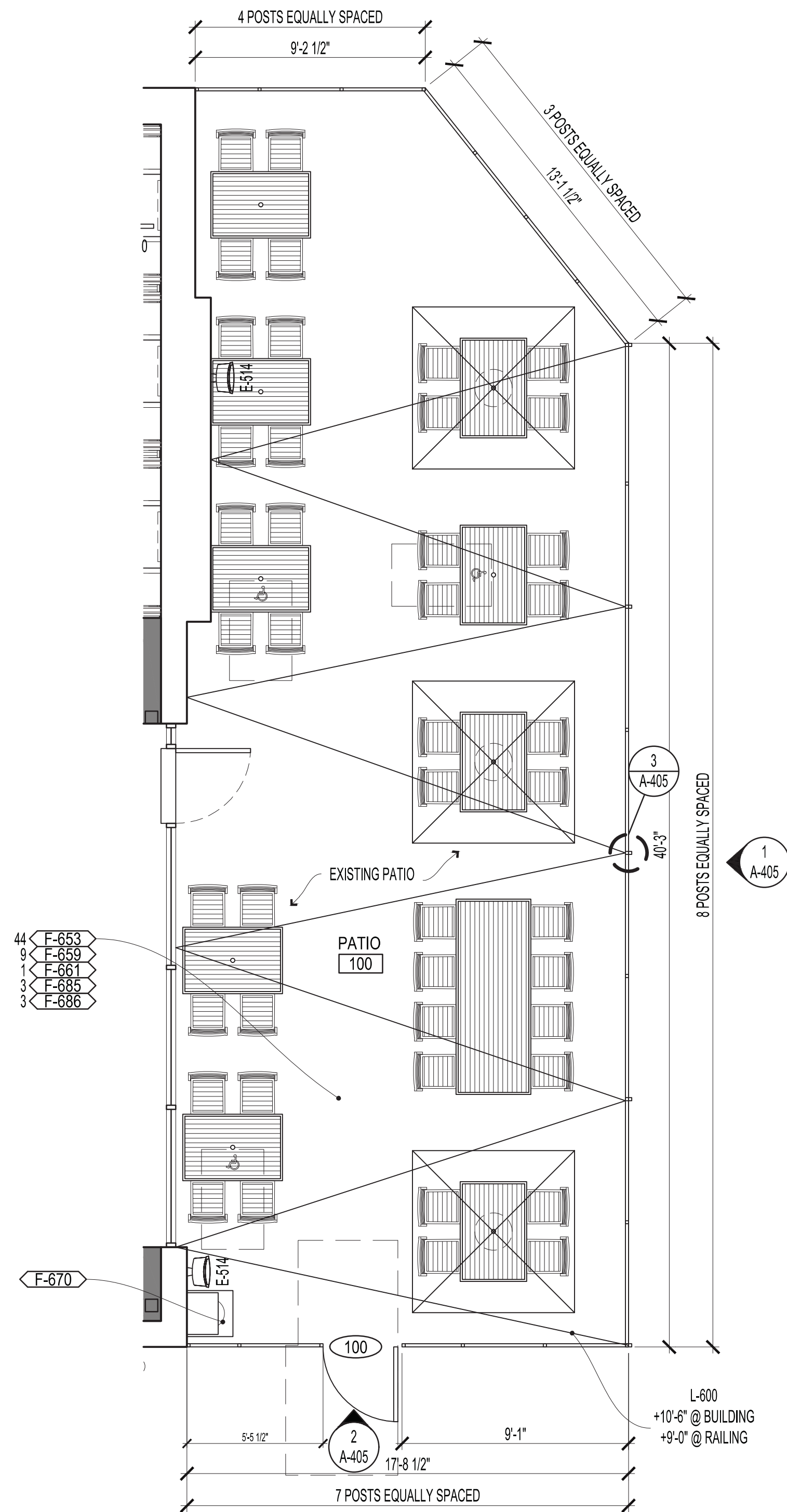
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**A-405**  
PATIO PLAN AND DETAILS

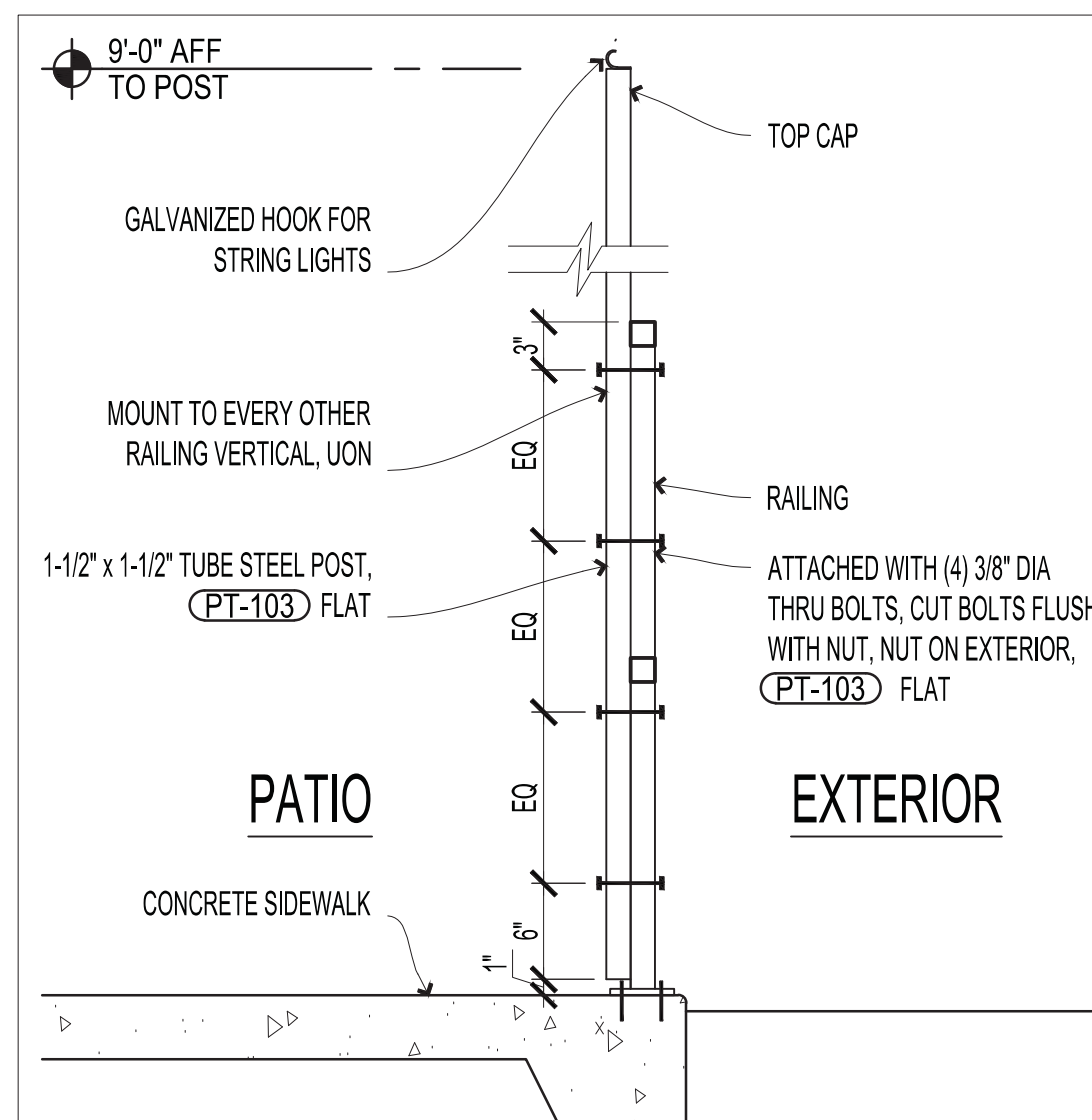
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**PATIO FURNITURE SCHEDULE**

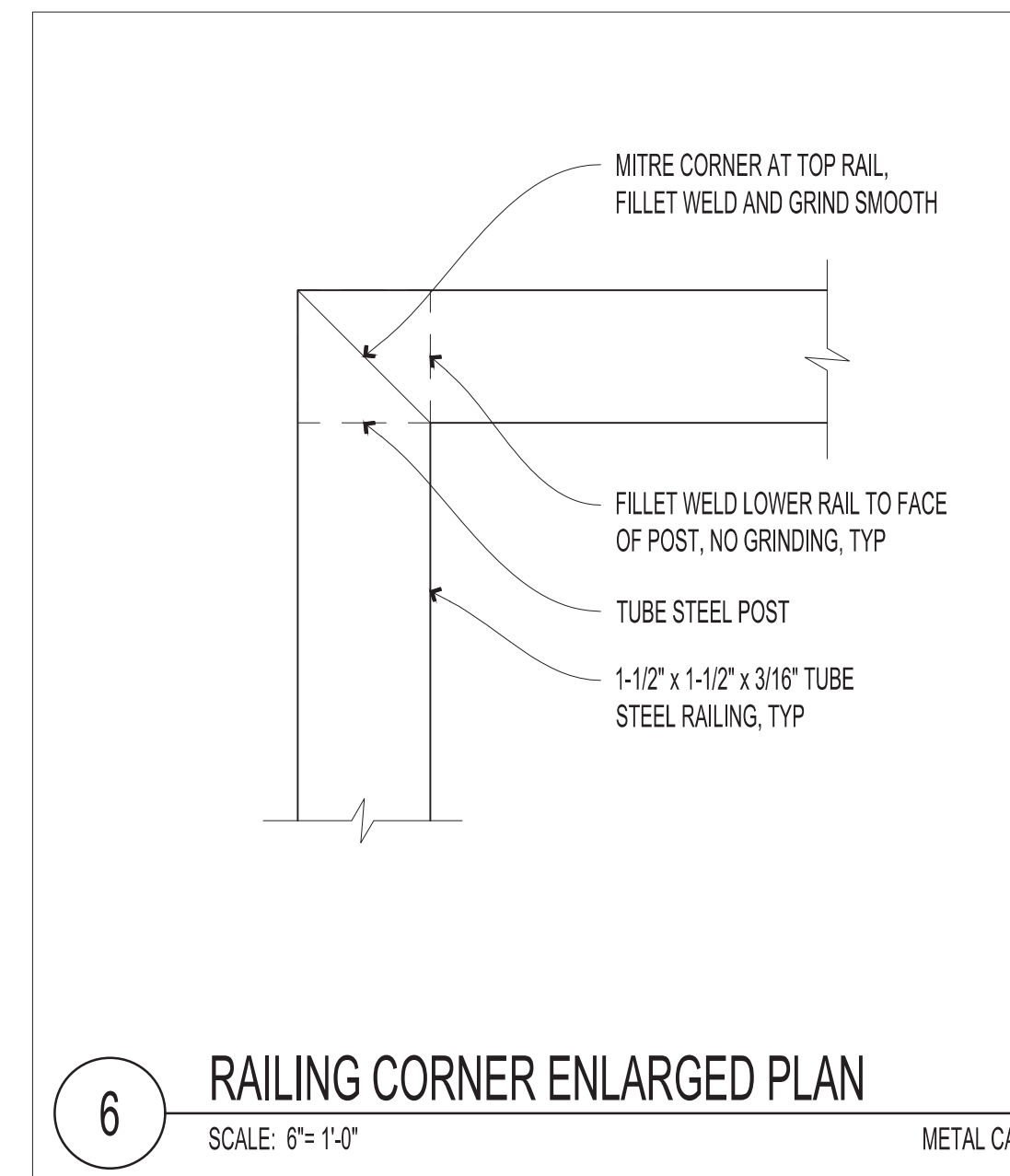
QUANTITY	TAG	ITEM	MANUFACTURER	SIZE	FINISH	VENDOR	REMARKS
44	F-653	PATIO SIDE CHAIR	MIAMI SIDE CHAIR / C516S-SBG	18.25"W X 23"D X 33.5"H	POWDERCOATED ALUMINUM FRAME; ALL WEATHER POLYWOOD SLATS - SILVER WITH GRAY	FOODSERVICE SEATING	32LB CAPACITY
9	F-659	PATIO 4-TOP TABLE	MIAMI DINING TABLES / DT516S-4BQ	48"W X 32"D	POWDERCOATED ALUMINUM FRAME; ALL WEATHER POLYWOOD SLATS - SILVER WITH GRAY	FOODSERVICE SEATING	EXTRA SLATS PROVIDED TO REMOVE UMBRELLA HOLE; ADA COMPLIANT
1	F-661	PATIO COMMUNITY TABLE	MIAMI DINING TABLES / DT516S-94Q	94"W X 36"D	POWDERCOATED ALUMINUM FRAME; ALL WEATHER POLYWOOD SLATS - SILVER WITH GRAY	FOODSERVICE SEATING	EXTRA SLATS PROVIDED TO REMOVE UMBRELLA HOLE; ADA COMPLIANT
1	F-670	EXTERIOR TRASH CART	OCC OUTDOORS PRODUCTS / REC-4MCO-36-TT	22.12"W X 22.12"D X 42.31"H, 36 GAL	POWDERCOAT BLACK HEAVY-DUTY STEEL; RECYCLED PLASTIC TOP WITH 14" DIA. OPENING; 36GAL. POLYETHYLENE LINER	EDWARD DON	36GAL.
3	F-685	PATIO UMBRELLA - MONTEREY FIBERGLASS	FRANKFORD UMBRELLAS / MONTEREY FIBERGLASS / 454FM-MS-A10D	78"W X 78"D X 59"H (7' CLEAR WHEN OPEN)	SUNBRELLA 4631-0000 BURGUNDY 90Z SOLUTION DYED MARINE GRADE ACRYLIC UMBRELLA FABRIC; MATTE SILVER FIBERGLASS/ALUMINUM FRAME	FRANKFORD UMBRELLAS	ORDER 10" EXTENSION "BAR HEIGHT" LOWER POLE FOR TEXAS MARKET
3	F-686	PATIO UMBRELLA BASE - 24G TABLES	FRANKFORD UMBRELLAS / 24G GALVANIZED STEEL PLATE	24" DIA X 5"H; 70LB	GALVANIZED	FRANKFORD UMBRELLAS	--



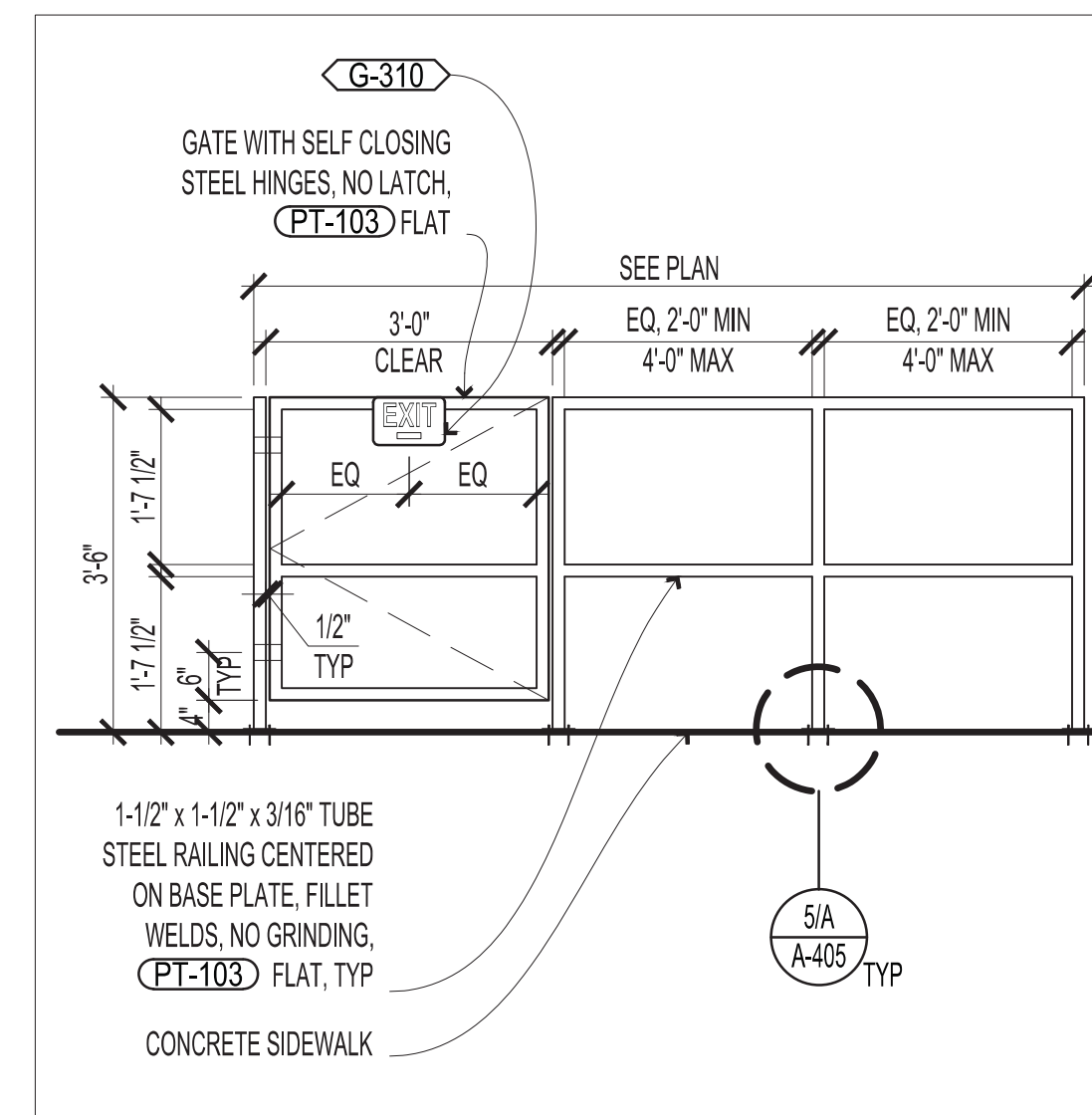
**4 PATIO FLOOR/REFLECTED PLAN**  
SCALE: 1/4" = 1'-0"



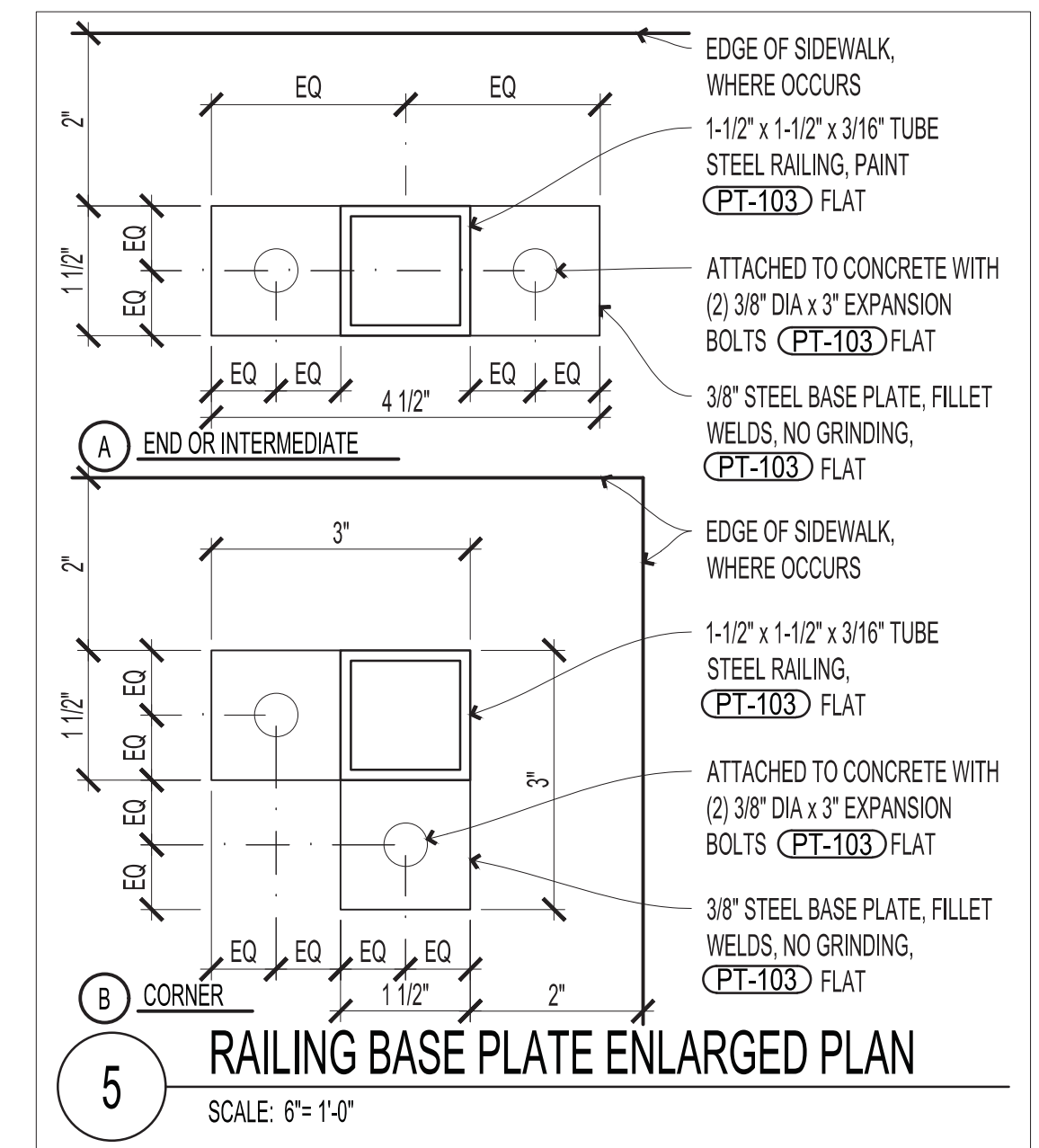
**3 PATIO STRING LIGHT POST DETAIL**  
SCALE: 1" = 1'-0"



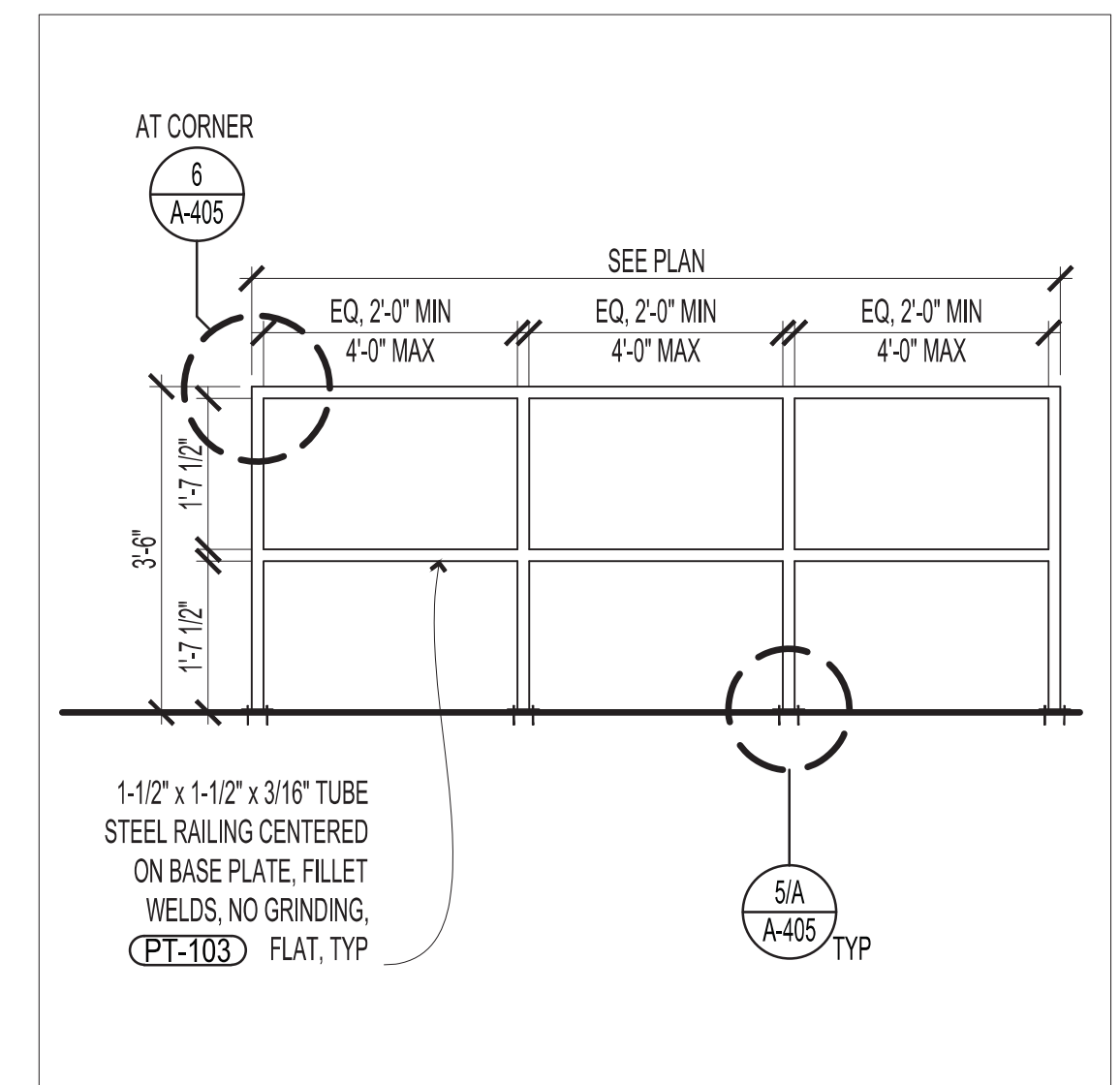
**6 RAILING CORNER ENLARGED PLAN**  
SCALE: 6" = 1'-0" METAL CAP



**2 EXTERIOR RAIL GATE ELEVATION**  
SCALE: 1/2" = 1'-0"



**5 RAILING BASE PLATE ENLARGED PLAN**  
SCALE: 6" = 1'-0"



**1 EXTERIOR RAIL ELEVATION**  
SCALE: 1/2" = 1'-0"

# DOOR HARDWARE SCHEDULE

MANUFACTURERS LIST : BE = BEST ACCESS SYSTEMS; DE = DETEX; DM = DORMA USA; DS = DU SEAUING;  
 HG = HAGER; IV = IVES; LCN = LCN; NA = NATIONAL GUARD; PEM = PEMKO; SC = SCHLAGE; ST = STANLEY;  
 TC = TRU-CLOSE; TR = TRIMCO; VD = VON DUPRIN

**HW #1 - SINGLE STOREFRONT ENTRY**

QTY	DESCRIPTION	CATALOG #	FINISH	MANU
4EA	BUTT HINGE	58B1 4 1/2 x 4 1/2	652	IV
1EA	OFFSET DOOR PULL	8190-2	US32D	IV
1EA	EXIT DEVICE	99EO-LD US28	US28	VD
1EA	SURFACE CLOSER	4111	--	LCN
1EA	THRESHOLD	158-A	--	PEM

**HW #2 - DOUBLE STOREFRONT ENTRY**

QTY	DESCRIPTION	CATALOG #	FINISH	MANU
8EA	BUTT HINGE	58B1 4 1/2 x 4 1/2	652	IV
2EA	OFFSET DOOR PULL	8190-2	US32D	IV
2EA	EXIT DEVICE	99EO-LD US28	US28	VD
2EA	SURFACE CLOSER	4111	--	LCN
1EA	THRESHOLD	172-A	--	PEM
2EA	DUSTPROOF STRIKE	DP2	US26D	IV

**HW #3 - KITCHEN - NOT USED**

QTY	DESCRIPTION	CATALOG #	FINISH	MANU
3EA	HINGES	B 1279, 4 1/2" X 4 1/2"	--	HG
1EA	FLOOR STOP	FS17	--	IV
1EA	CLOSER W/ HOLD OPEN	1480	--	LCN
1EA	LOCKSET	L9496 SATURN	US26D	SC
1EA	10" KICKPLATE	8400, PUSH SIDE	US32D	IV

**HW #7 - REAR EXIT**

QTY	DESCRIPTION	CATALOG #	FINISH	MANU
3EA	HINGE	CB199, 4 1/2" X 4 1/2" NRP	630	ST
1EA	EXIT DEVICE	9301 LD SNB	630	DM
1EA	DOOR CLOSER	8616 SPA	689	DM
1EA	KICKPLATE, PUSH SIDE	K0050 10" X 2" LDW B4E CS	630	TR
1EA	DOOR STOP	1214H	626	TR
1EA	WEATHERSTRIP	700 NA SMS-TEKS	--	NA
1EA	DOOR SWEEP	200 NA SMS-TEKS	--	NA
1EA	THRESHOLD	426 SSMS/ES	--	NA
1EA	VIEWER	DS10000-MB	BLK	DS
1EA	EXIT ALARM	EAX-500-KS	GREY	DE
1EA	SIGN	EA-704-2 (SPANISH)	--	DE

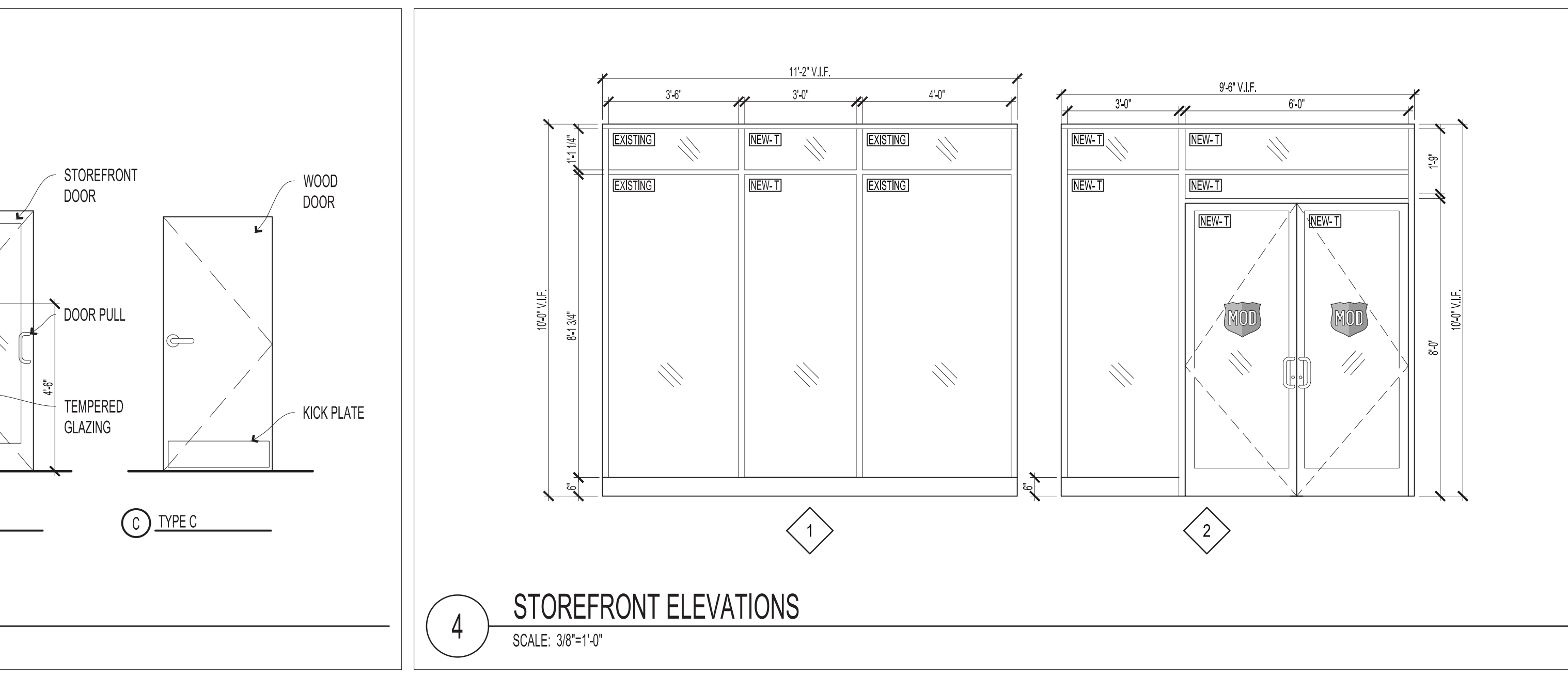
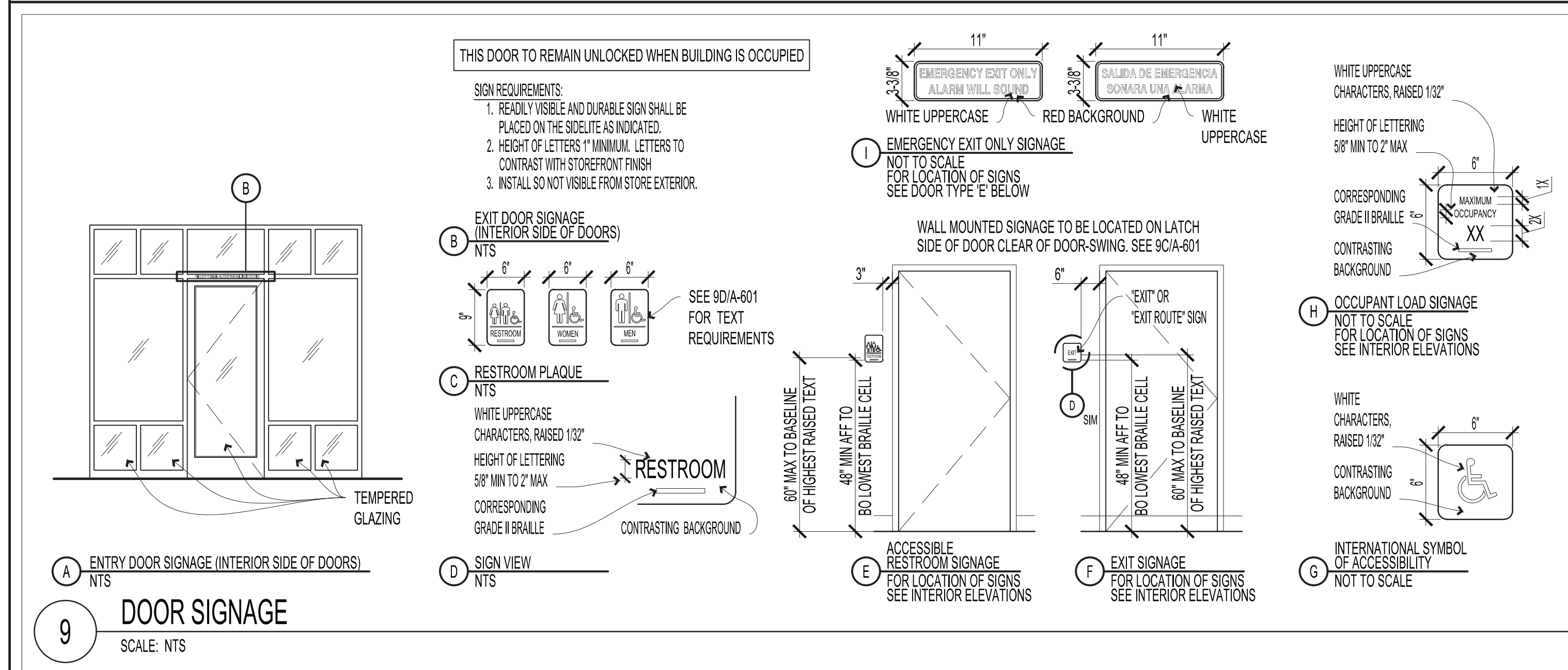
DOOR IS EXIT ONLY. ALARM WILL SOUND. TEMPLATE HARDWARE ACCORDINGLY - DO NOT CUT WEATHERSTRIP. MOUNT THE ENGLISH (PROVIDED) AND SPANISH SIGNAGE ABOVE THE EXIT DEVICE AND BELOW THE DOOR VIEWER.

**HW #8 - PATIO GATE**

QTY	DESCRIPTION	CATALOG #	FINISH	MANU
2EA	SELF CLOSING HINGES	--	--	--

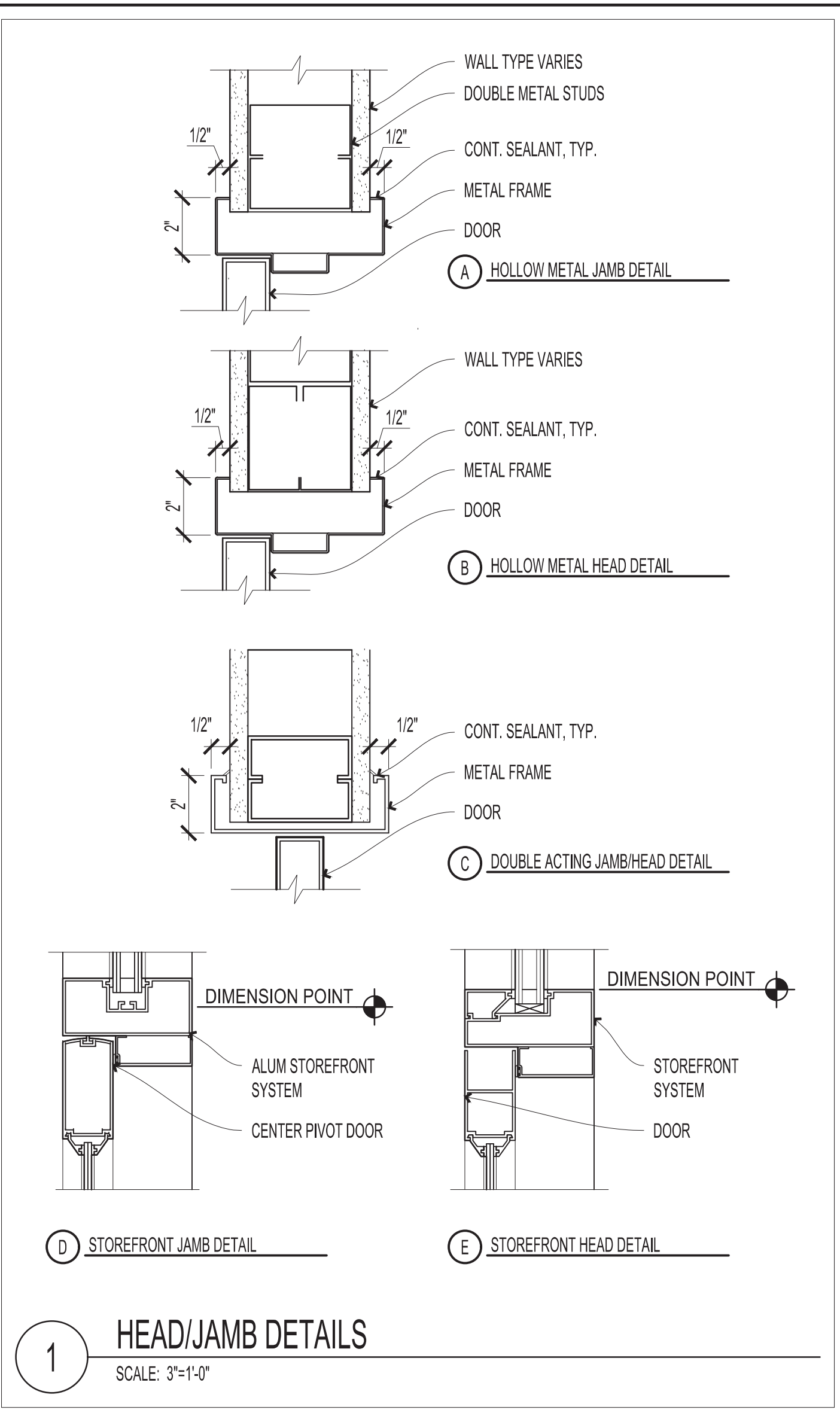
# DOOR LEGEND

DOOR #	ROOM NAME	DOOR							FRAME				REMARKS	
		TYPE	HDWR	WIDTH	HEIGHT	THICK	MATL	FINISH	HEAD	JAMB	THRSLD	MATL		FINISH
100	PATIO GATE	2/A-405	8	2'-10"	3'-6"	1-1/2"	MTL	PT-103	---	2/A-405	---	MTL	PT-103	
101	ENTRY	A	2	(2)3'-0"	7'-0"	--	ALUM	GL	1EA-601	1D/A-601	---	ALUM	ALUM	PROVIDE SIGNAGE ACROSS HEAD OF DOOR PER 9A/A-601
103	EXIT	B	1	3'-0"	7'-0"	-	ALUM	GL	1EA-601	1D/A-601	---	ALUM	ALUM	PROVIDE SIGNAGE ACROSS HEAD OF DOOR PER 9A/A-601
104	REAR EXIT	EXIST	7	EXIST	EXIST	EXIST	EXIST	EXIST	EXIST	EXIST	EXIST	EXIST	EXIST	EXISTING; PROVIDE NEW HARDWARE
105	RESTROOM	C	4	3'-0"	7'-0"	1 3/4"	SOLID WOOD	X-PL-108	1B/A-601	1A/A-601	---	HM	REMARKS	UNDERCUT DOOR 1", FRAME FINISH TO MATCH ADJACENT PARTITION FINISH ON DINING ROOM SIDE
106	RESTROOM	C	4	3'-0"	7'-0"	1 3/4"	SOLID WOOD	X-PL-108	1B/A-601	1A/A-601	---	HM	REMARKS	UNDERCUT DOOR 1", FRAME FINISH TO MATCH ADJACENT PARTITION FINISH ON DINING ROOM SIDE
107	STORAGE	C	4	3'-0"	7'-0"	1 3/4"	SOLID WOOD	X-PL-108	1B/A-601	1A/A-601	---	HM	REMARKS	UNDERCUT DOOR 1", FRAME FINISH TO MATCH ADJACENT PARTITION FINISH ON DINING ROOM SIDE



# SHEET NOTES

- THIS PROJECT SHALL COMPLY WITH ALL FEDERAL AMERICANS WITH DISABILITIES ACT ACCESSIBILITY GUIDELINES AND LOCAL ACCESS CODE REQUIREMENTS.
- THRESHOLDS SHALL BE NO HIGHER THAN 1/2" ABOVE THE FLOOR. EDGE TO BE BEVELED WITH A SLOPE NO GREATER THAN 1 IN 2.
- DOOR HARDWARE SHALL BE OF THE LEVER OR PUSH TYPE, MOUNTED 34" TO 44" ABOVE THE FLOOR AND BE OPERABLE WITH A MAXIMUM EFFORT OF 5 LBS. FOR INTERIOR DOORS, EXTERIOR DOOR - 5 LBS. POUNDS MAX. PRESSURE FIRE DOOR - 15 POUNDS MAX. PRESSURE
- ACCESSIBLE DOORS MUST BE MINIMUM 3'-0"W X 6'-8"H. MODIFY IF REQUIRED.
- PROVIDE 18" CLEAR SPACE AT STRIKE/PULL SIDE ON INTERIOR DOORS, AND 12" CLEAR AT STRIKE/PUSH SIDE OF DOORS W/ CLOSERS AND 24" CLEAR AT STRIKE/PULL SIDE ON EXTERIOR DOOR
- FLOOR SHALL BE LEVEL THROUGHOUT.
- CLOSERS: FURNISHED AND INSTALLED BY GENERAL CONTRACTOR. DOOR CLOSERS TO BE MOUNTED ON SWING SIDE OF DOORS. DOOR CLOSERS TO HAVE A MAXIMUM OPENING FORCE OF 5 LBS (INTERIOR HINGED DOORS). EXTERIOR DOOR - 5 LBS MAXIMUM. PRESSURE. FIRE DOOR - 15 LBS MAXIMUM. PRESSURE THE SWEEP PERIOD OF THE CLOSER SHALL BE ADJUSTED SO THAT FROM AN OPEN POSITION OF 90 DEGREES MINIMUM, THE TIME REQUIRED TO MOVE THE DOOR TO A POSITION OF 12 DEGREES FROM THE LATCH SHOULD BE 5 SECONDS MINIMUM.
- AOR/OWNER SHALL VERIFY WITH SUPPLIER THAT ALL HARDWARE MEETS ADAAG REQUIREMENTS.
- ALL DOOR HINGES TO BE STEEL BALL BEARING, FULL MORTISE TYPE.
- ALL METAL DOOR FRAMES TO BE PROVIDED WITH SILENCERS.
- ALL INTERIOR DOORS TO BE PROVIDED WITH COMMERCIAL GRADE WALL OR FLOOR STOPS.
- GENERAL CONTRACTOR SHALL ENSURE ALL EXISTING DOORS TO REMAIN TO BE IN GOOD OPERATING ORDER AND TO MEET ALL LOCAL BUILDING CODES AND ADAAG REQUIREMENTS. GENERAL CONTRACTOR TO RESTORE DOORS TO "LIKE NEW" CONDITION, AND INSTALL NEW HARDWARE PER SCHEDULE.



2035 158th CT NE  
 Suite 200  
 Bellevue, WA 98008

ARCHITECT OF RECORD  
**INTERPLAN**  
 INTERPLAN LLC  
 ARCH COA #2015008774  
 ENG COA #2005026904

ARCHITECTURE ENGINEERING PERMITTING

220 E. CENTRAL PKWY. STE 4000  
 ALTAMONTE SPRINGS, FL 32701  
 407.645.5008  
 PROJECT NO. 2021.0524

CONSULTANT

Digitally signed by David Boyce  
 Date: 2021.10.20 16:11:33 -04'00'

STATE OF MISSOURI  
 DAVID G. BOYCE  
 NUMBER A-2000157576  
 ARCHITECT

**MOD LEE'S SUMMIT**  
 460 NW CHIPMAN RD  
 LEE'S SUMMIT, MO 64086

ISSUED / REVISED	DATE
△ BUILDING COMMENTS	10.18.21
△ DESIGN UPGRADES	10.18.21

PERMIT SET 09.20.21

**A-601**  
 DOOR LEGEND AND DETAILS



# FINISH SCHEDULE

ALL FINISHES FURNISHED AND INSTALLED BY CONTRACTOR UNLESS OTHERWISE NOTED. USE MOD PIZZA NATIONAL ACCOUNT CONTACTS WHERE INDICATED						
TAG	ITEM	MANUFACTURER/MODEL	SIZE	FINISH	VENDOR	REMARKS
<b>BASE</b>						
BA-100	RUBBER COVE BASE - 6"	ARMSTRONG / R6161	6"H	*Graphite Gray LRV: 7 Paint Match - SW7062	CONTRACTOR	CONTINUOUS CLEAR SILICON BEAD AT BASE TOP TO WALL FINISH
BA-102	RUBBER COVE BASE - 4"	ARMSTRONG / V4161	4"H	*Graphite Gray LRV: 7 Paint Match - SW7062	CONTRACTOR	EMPLOYEE SIDE OF CASEWORK; CONTINUOUS CLEAR SILICON BEAD AT BASE TOP TO WALL FINISH
<b>CEMENT/ CONCRETE BOARD</b>						
CB-201	2STONE INDUSTRIAL VENEER	2STONE / INDUSTRIAL VENEER	36"X 48" X 5/8"THK	STANDARD GRAY	CONTRACTOR	REQUIRES 5/8" PLYWOOD SUBSTRATE. INSTALL PANELS TO MATCH PATTERN SHOWN. SCREW EACH DIVOT & GLUE TO SUBSTRATE. ALLOW FOR 1/8" REVEAL BETWEEN PANELS. WITH SUBSTRATE PAINTED PT-103 (BLACK). CONCEAL SCREWS AND REVEALS BY CAULKING TO MATCH CONCRETE GREY PANELS. SEAL WITH DRY TREAT STAIN PROOF. PREMIUM IMPREGNATING SEALER. APPLY SEALER PRIOR TO ANY GRAPHIC APPLICATIONS.
<b>CEILING</b>						
CL-100	2X4 ACOUSTIC CEILING PANEL	OWENS CORNING	2'W X 4'L X 2"THK	*White Vinyl Face LRV: 76	CONTRACTOR	2" THICK
<b>TILE</b>						
CT-106	4X12 WALL TILE - ARCTIC WHITE - MATTE	DAL TILE / COLOR WHEEL LINEAR / 0790	4-1/4"W X 12-3/4"L X 5/16"THK	*10790 Arctic White; Matte LRV: 83	CONTRACTOR	*GROUT: MAPEI-47 Charcoal (or) TEC AccuColor EFX Epoxy Special Effects Grout in Charcoal Gray for Open tile application (high-heat surfaces)-SEE SPEC. SECTION 093000 FOR ADD. INFO.
CT-119	4X12 MATTE COVE BASE - ARCTIC WHITE	DAL TILE / COLOR WHEEL LINEAR / AS4C1MOD 4X12CB 0790	4 1/4"W X 12 7/8"L X 5/16"THK	MATTE ARCTIC WHITE	CONTRACTOR	GROUT: MAPEI-47 CHARCOAL
X-CT-223	CEMENT 8X8 TILE - PAVILION II	CEMENT TILE SHOP / PACIFIC CONTEMPORARY COLLECTION PAVILION II	8"X 8" PL X 5/8"THK	PAVILION II	CONTRACTOR	GROUT: MAPEI-47 CHARCOAL (OR) TEC ACCUCOLOR EFX EPOXY SPECIAL EFFECTS GROUT IN CHARCOAL GRAY FOR OPEN TILE APPLICATION (HIGH-HEAT SURFACES); APPLY CLEAR SEALER
<b>COUNTER SURFACE</b>						
CS-201	SOLID SURFACE - YUKON RIVERSTONE	WILSONART / 9166RS	1/2"; 30" X 144" SLAB	YUKON RIVERSTONE	CASEWORK	-
<b>FABRIC</b>						
FA-105	VINYL - ROUGE	WOLF GORDON / GOH12783688	54" WIDE	ROUGE - EAST VILLAGE (EAV 8402)	CASEWORK	-
<b>FIBER REINFORCED PLASTIC</b>						
FP-100	FIBER REINFORCED PLASTIC - WHITE	MARLITE / STANDARD P100	4'W X 8' OR 10'L X 3/32"THK	*White; Pebbled Surface LRV: 83	CONTRACTOR	TRIM TO MATCH PANEL COLOR; INSTALL IN KITCHEN
FP-101	FIBER REINFORCED PLASTIC - BLACK	MARLITE / STANDARD P807	4'W X 8' OR 10'L X 3/32"THK	*Black; Pebbled Surface LRV: 0.5	CONTRACTOR	TRIM TO MATCH PANEL COLOR; INSTALL BEHIND BEVERAGE CASEWORK
<b>HOT ROLLED STEEL</b>						
HS-103	HOT ROLLED STEEL - POWDERCOAT	-	-	*Prismatic Powders / PPP-4858 / Flattop Black LRV: 9 Paint Match - SW7845	CASEWORK OR BFC METALS	USE DIRECTLY ON HOT ROLLED STEEL; DO NOT USE RECOMMENDED BASE COAT
<b>MELAMINE</b>						
ML-100	MELAMINE - WHITE	MEDEX	-	WHITE	CASEWORK	-
<b>PLASTIC LAMINATE</b>						
PL-105	PLASTIC LAMINATE - BLACK	WILSONART / 1595-60	-	BLACK; MATTE	CASEWORK	-
X-PL-108	PLASTIC LAMINATE - PEPPER ALONA	WILSONART / PEPPER ALONA Y0287	-	VOL VERTICAL GRADE LAMINATE .028" SHEET SIZE: 4'X8'	CONTRACTOR	APPLY FINISH OVER SOLID WOOD RESTROOM DOORS. SEE A-801 FOR DETAILS.
<b>PAINT</b>						
PT-102	PAINT - CEILING BRIGHT WHITE	SHERWIN WILLIAMS / SW7007	-	*Ceiling Bright White; Semi-gloss LRV: 83	CONTRACTOR	REFER TO SHERWIN-WILLIAMS PAINT SCHEDULE GUIDE 2019
PT-103	PAINT - CAVIAR	SHERWIN WILLIAMS / SW6990	-	*Caviar; Semi-gloss LRV: 3	CONTRACTOR	REFER TO SHERWIN-WILLIAMS PAINT SCHEDULE GUIDE 2019
PT-115	PAINT - SHOJI WHITE	SHERWIN WILLIAMS / SW7042	-	SHOJI WHITE; SEMI-GLOSS	CONTRACTOR	REFER TO SHERWIN-WILLIAMS PAINT SCHEDULE GUIDE 2019
PT-117	PAINT - SUBWAY	SHERWIN WILLIAMS / CUSTOM MATCH # 8260-19885 MOD PIZZA TM 0536	-	CUSTOM MATCH COLOR; SEMI-GLOSS	CONTRACTOR	REFER TO SHERWIN-WILLIAMS PAINT SCHEDULE GUIDE 2019
<b>SEALED CONCRETE</b>						
SC-100	SEALED CONCRETE	CONSOLIDECK	-	CONCRETE PROTECTOR; CLEAR	CONTRACTOR	PENETRATING SEALER; USDA APPROVED
<b>STAINLESS STEEL</b>						
ST-100	STAINLESS STEEL PANEL	-	-	#4 FINISH	CONTRACTOR	-
<b>WALLOVERING</b>						
WC-105	WALL COVERING - FOUNDATION - SLATE	WOLF GORDON / FOUNDATION / FDN 5414 / GOH12294967	52"W	SLATE	CONTRACTOR	-
<b>WOOD</b>						
WD-121	ENGINEERED VINYL PLANK - WADDINGTON OAK	CORETEC / V0035-00915	8.98" X 72.05" X 8MM	WADDINGTON OAK	CASEWORK	-
X-WD-140	WHITE OAK PANELING	MOUNTAIN LUMBER CO / HARVEST WHITE OAK PANELING - CHARACTER GRADE	7" W X 2' TO 12' RANDOM L X 5/8"THK	DISTRESSED WATER-BASED COLOR	CONTRACTOR	-
<b>WIRE MESH</b>						
WM-100	WIRE MESH	WIRE MESH	2" SQUARE	COLD ROLLED	CONTRACTOR	-

# INTERIOR SIGNAGE SCHEDULE

OWNER'S VENDOR FURNISHED ITEMS INSTALLED BY CONTRACTOR UNLESS OTHERWISE NOTED							
QUANTITY	TAG	ITEM	MANUFACTURER/MODEL	SIZE	FINISH	VENDOR	REMARKS
1	G-131	CLASSICS BOARD WITH FRAME	CUSTOM	58-1/2"W X 1'D X 79-3/8"H	16GA STEEL PAN POWDERCOATED MATTE BLACK	INTERIOR SIGNAGE VENDOR	COMES WITH 9" FRAME MECHANICALLY FASTENED TO MAIN PAN. INSTALLED WITH Z-CLIPS. PROVIDED. IT CAN BE INSTALLED WITHOUT FRAME
1	G-133	DRINKS HANGING MENU BOARD	CUSTOM	46"W X 1'D X 31"H	20GA STEEL PAN POWDERCOATED MATTE BLACK	INTERIOR SIGNAGE VENDOR	BLACK MAGALENS MAGNETICALLY MOUNTED TO FACE OF PAN; HANGING BRACKET ATTACHES TO MDF BOARD WITH LOCK NUT. INSTALL WITH WIRE CABLE TO ENGINE SOFFIT
1	G-134	EXTRAS HANGING MENU BOARD	CUSTOM	51-1/2"W X 1'D X 31"H	20GA STEEL PAN POWDERCOATED MATTE BLACK	INTERIOR SIGNAGE VENDOR	BLACK MAGALENS MAGNETICALLY MOUNTED TO FACE OF PAN; HANGING BRACKET ATTACHES TO MDF BOARD WITH LOCK NUT. INSTALL WITH WIRE CABLE TO ENGINE SOFFIT
1	G-137	COMMUNITY BOARD - 48X48	CUSTOM	47-1/2"W X 3/4"D X 47-1/2"H	STEEL CHASSIS POWDERCOATED MATTE BLACK	INTERIOR SIGNAGE VENDOR	DIRECT PRINTED STORE LOGO ON FACE; INSTALL WITH Z-CLIPS, PROVIDED
1	G-141-L	ORDER HERE SIGN - LEFT	CUSTOM	24" DIA X 5'D	ALUMINUM WITH HOT ROLLED STEEL FINISH FAUX NEON LED	INTERIOR SIGNAGE VENDOR	PLUG INTO WALL RECEPTACLE. SEE SHOPS FOR MOUNTING - PROVIDE BLOCKING WHERE REQUIRED
1	G-142-TM	ONLINE PICKUP SIGN - TOP	CUSTOM	24" DIA X 5'D (PIPE SUPPORT LENGTH - 36")	ALUMINUM WITH HOT ROLLED STEEL FINISH FAUX NEON LED	INTERIOR SIGNAGE VENDOR	PLUG INTO WALL RECEPTACLE. SEE SHOPS FOR MOUNTING - PROVIDE BLOCKING WHERE REQUIRED; CUT SUPPORT TUBE ON SITE PER SITE CONDITIONS

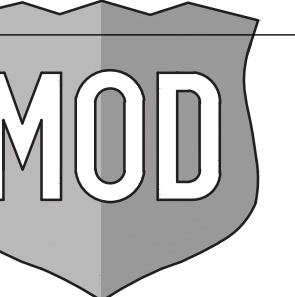
1	G-307	DOOR TO REMAIN UNLOCKED SIGN	RESTROOM REMODELS / D115	24"W X 1.5'H	VINYL DECAL	CONTRACTOR	SEE 9/A-601
1	G-308	OCCUPANCY SIGN	RESTROOM REMODELS / EP5380	6"W X 6"H	PLASTIC; WHITE ON BLACK	CONTRACTOR	MOUNT AT 48" AFF. SEE 9/A-601; PROVIDE NUMERICAL VALUE TO VENDOR WHEN ORDERING - SEE A-112 FOR NUMERICAL VALUE FOR EACH SIGN
2	G-309-VT	TACTILE EXIT SIGN - VERTICAL	RESTROOM REMODELS / MOD2853	2"W X 8"H	PLASTIC; WHITE ON BLACK	CONTRACTOR	SEE 9/A-601; SOURCE FROM RESTROOM REMODELS
1	G-311-MN	ACCESSIBLE RESTROOM WALL SIGN - MEN	RESTROOM REMODELS / EPO002MOD	6"W X 9"H X 1/8"D 1/32" TACTILE GRAPHICS & WORDING; 5/8" TEXT	PLASTIC; WHITE ON BLACK	CONTRACTOR	SEE 9/A-601; SOURCE FROM RESTROOM REMODELS
1	G-311-WN	ACCESSIBLE RESTROOM WALL SIGN - WOMEN	RESTROOM REMODELS / EPO004-BLACK	6"W X 9"H X 1/8"D 1/32" TACTILE GRAPHICS & WORDING; 5/8" TEXT	PLASTIC; WHITE ON BLACK	CONTRACTOR	SEE 9/A-601; SOURCE FROM RESTROOM REMODELS

# SHEET NOTES

- REFER TO A-131 FOR FLOOR & BASE FINISHES.
- REFER TO A-131 FOR TRIM FINISHES.

RELEASE FOR CONSTRUCTION AS NOTED ON PLANS REVIEW DEVELOPMENT SERVICES LEE'S SUMMIT, MISSOURI

10/27/2021



2035 158th CT NE  
Suite 200  
Bellevue, WA 98008

ARCHITECT OF RECORD

**INTERPLAN**  
INTERPLAN LLC

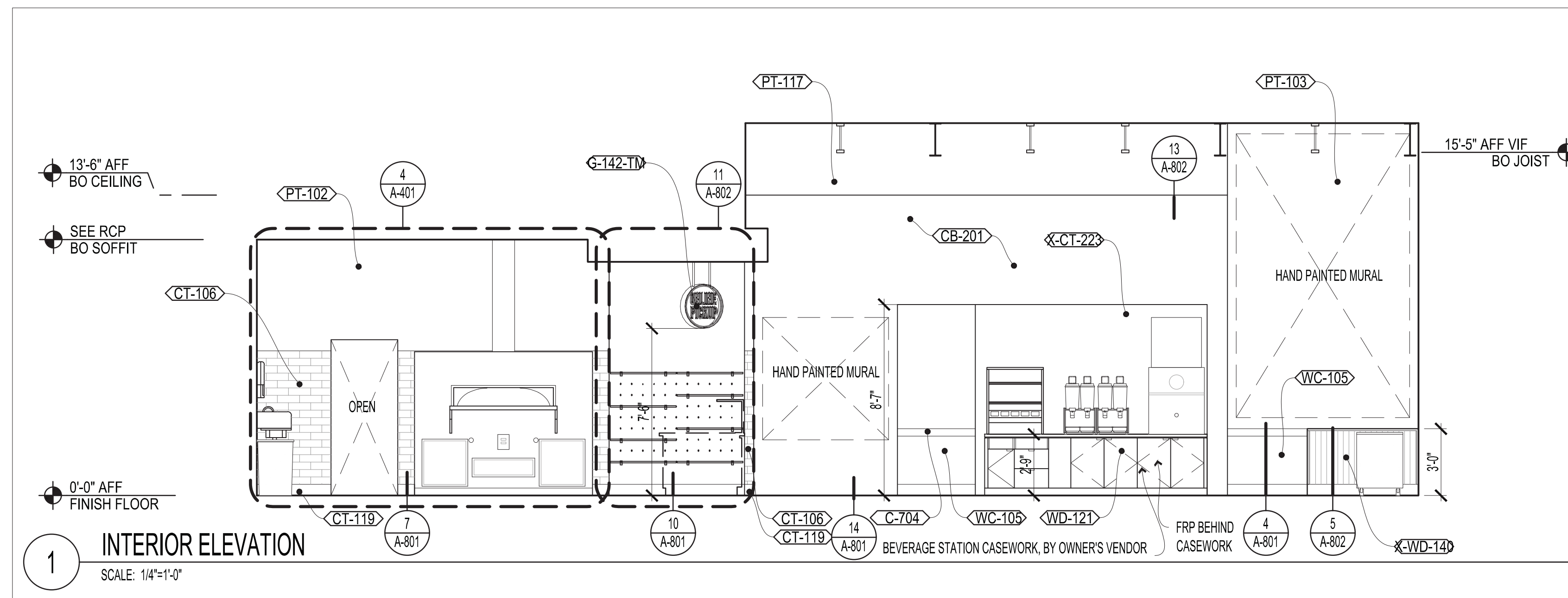
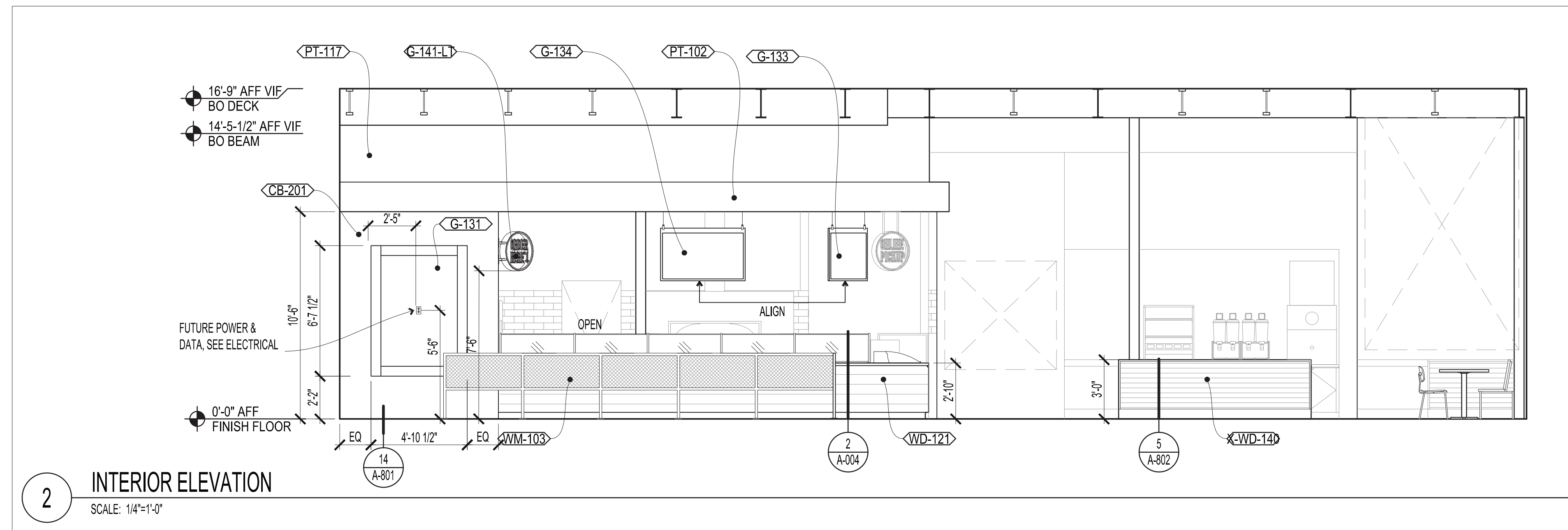
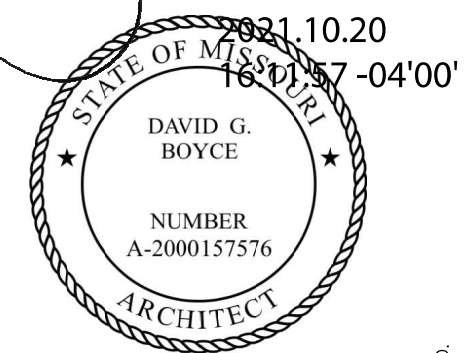
ARCH COA #2015008774  
ENG COA #2005026904

ARCHITECTURE  
ENGINEERING  
PERMITTING

220 E. CENTRAL PKWY. STE 4000  
ALAMONTE SPRINGS, FL 32701  
407.645.5008  
PROJECT NO. 2021.0524

CONSULTANT

Digitally signed  
by David Boyce  
Date: 2021.10.20



**MOD LEE'S SUMMIT**  
460 NW CHIPMAN RD  
LEE'S SUMMIT, MO 64086

ISSUED / REVISED DATE  
BUILDING COMMENTS 10.18.21  
DESIGN UPGRADES 10.18.21

PERMIT SET 09.20.21

**A701**

INTERIOR ELEVATIONS  
DINING

CHECKED: EM DRAWN: AL

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# FINISH SCHEDULE

ALL FINISHES FURNISHED AND INSTALLED BY CONTRACTOR UNLESS OTHERWISE NOTED. USE MOD PIZZA NATIONAL ACCOUNT CONTACTS WHERE INDICATED						
TAG	ITEM	MANUFACTURER/MODEL	SIZE	FINISH	VENDOR	REMARKS
<b>BASE</b>						
BA-100	RUBBER COVE BASE - 6"	ARMSTRONG / R6161	6"H	*Graphite Gray LRV: 7 Paint Match - SW7062	CONTRACTOR	CONTINUOUS CLEAR SILICON BEAD AT BASE TOP TO WALL FINISH
BA-102	RUBBER COVE BASE - 4"	ARMSTRONG / V4161	4"H	*Graphite Gray LRV: 7 Paint Match - SW7062	CONTRACTOR	EMPLOYEE SIDE OF CASEWORK; CONTINUOUS CLEAR SILICON BEAD AT BASE TOP TO WALL FINISH
<b>CEMENT/ CONCRETE BOARD</b>						
CB-201	2STONE INDUSTRIAL VENEER	2STONE / INDUSTRIAL VENEER	36"X 48" X 5/8" THK	STANDARD GRAY	CONTRACTOR	REQUIRES 5/8" PLYWOOD SUBSTRATE. INSTALL PANELS TO MATCH PATTERN SHOWN. SCREW EACH DIVOT & GLUE TO SUBSTRATE. ALLOW FOR 1/8" REVEAL BETWEEN PANELS. WITH SUBSTRATE PAINTED PT-103 (BLACK). CONCEAL SCREWS AND REVEALS BY CAULKING TO MATCH CONCRETE GREY PANELS. SEAL WITH DRY TREAT STAIN PROOF, PREMIUM IMPREGNATING SEALER, APPLY SEALER PRIOR TO ANY GRAPHIC APPLICATIONS.
<b>CEILING</b>						
CL-100	2X4 ACOUSTIC CEILING PANEL	OWENS CORNING	2'W X 4'L X 2" THK	*White; Vinyl Face LRV: 76	CONTRACTOR	2" THICK
<b>TILE</b>						
CT-106	4X12 WALL TILE - ARCTIC WHITE - MATTE	DAL TILE / COLOR WHEEL LINEAR / 0790	4-1/4"W X 12-3/4"L X 5/16" THK	*10790 Arctic White; Matte LRV: 83	CONTRACTOR	*GROUT: MAPEI-47 Charcoal (or) TEC AccuColor EFX Epoxy Special Effects Grout in Charcoal Gray for Oven tile application (high-heat surfaces)-SEE SPEC. SECTION 093000 FOR ADD. INFO.
CT-119	4X12 MATTE COVE BASE - ARCTIC WHITE	DAL TILE / COLOR WHEEL LINEAR / AS4C1MOD 4X12CB 0790	4 1/4"W X 12 7/8"L X 5/16" THK	MATTE ARCTIC WHITE	CONTRACTOR	GROUT: MAPEI-47 CHARCOAL
X-CT-223	CEMENT 8X8 TILE - PAVILION II	CEMENT TILE SHOP / PACIFIC CONTEMPORARY COLLECTION PAVILION II	8"X 8" X 5/8" THK	PAVILION II	CONTRACTOR	GROUT: MAPEI-47 CHARCOAL (OR) TEC ACCUCOLOR EFX EPOXY SPECIAL EFFECTS GROUT IN CHARCOAL GRAY FOR OVEN TILE APPLICATION (HIGH-HEAT SURFACES); APPLY CLEAR SEALER
<b>COUNTER SURFACE</b>						
CS-201	SOLID SURFACE - YUKON RIVERSTONE	WILSONART / 9196RS	1/2"; 30" X 144" SLAB	YUKON RIVERSTONE	CASEWORK	-
<b>FABRIC</b>						
FA-105	VINYL - ROUGE	WOLF GORDON / GOH12783988	54" WIDE	ROUGE - EAST VILLAGE (EAV 8402)	CASEWORK	-
<b>FIBER REINFORCED PLASTIC</b>						
FP-100	FIBER REINFORCED PLASTIC - WHITE	MARLITE / STANDARD P100	4'W X 8' OR 10'L X 3/32" THK	*White; Pebbled Surface LRV: 83	CONTRACTOR	TRIM TO MATCH PANEL COLOR; INSTALL IN KITCHEN
FP-101	FIBER REINFORCED PLASTIC - BLACK	MARLITE / STANDARD P807	4'W X 8' OR 10'L X 3/32" THK	*Black; Pebbled Surface LRV: 0.5	CONTRACTOR	TRIM TO MATCH PANEL COLOR; INSTALL BEHIND BEVERAGE CASEWORK
<b>HOT ROLLED STEEL</b>						
HS-103	HOT ROLLED STEEL - POWDERCOAT	-	-	*Prismatic Powders / PPP-4858 / Flattop Black LRV: 9 Paint Match - SW7845	CASEWORK OR BFC METALS	USE DIRECTLY ON HOT ROLLED STEEL; DO NOT USE RECOMMENDED BASE COAT
<b>MELAMINE</b>						
ML-100	MELAMINE - WHITE	MEDEX	-	WHITE	CASEWORK	-
<b>PLASTIC LAMINATE</b>						
PL-105	PLASTIC LAMINATE - BLACK	WILSONART / 1595-60	-	BLACK; MATTE	CASEWORK	-
X-PL-108	PLASTIC LAMINATE - PEPPER ALONA	WILSONART / PEPPER ALONA Y0287	-	PRODUCT TYPE: 362 PATTERN: Y0287-12 FINISH: 12	CONTRACTOR	APPLY FINISH OVER SOLID WOOD RESTROOM DOORS. SEE A-801 FOR DETAILS.
<b>PAINT</b>						
PT-102	PAINT - CEILING BRIGHT WHITE	SHERWIN WILLIAMS / SW7007	-	*Ceiling Bright White; Semi-gloss LRV: 83	CONTRACTOR	REFER TO SHERWIN-WILLIAMS PAINT SCHEDULE GUIDE 2019
PT-103	PAINT - CAVIAR	SHERWIN WILLIAMS / SW9990	-	*Caviar; Semi-gloss LRV: 3	CONTRACTOR	REFER TO SHERWIN-WILLIAMS PAINT SCHEDULE GUIDE 2019
PT-115	PAINT - SHOJI WHITE	SHERWIN WILLIAMS / SW7042	-	SHOJI WHITE; SEMI-GLOSS	CONTRACTOR	REFER TO SHERWIN-WILLIAMS PAINT SCHEDULE GUIDE 2019
PT-117	PAINT - SUBWAY	SHERWIN WILLIAMS / CUSTOM MATCH # 8260-19885 MOD PIZZA TM 0536	-	CUSTOM MATCH COLOR; SEMI-GLOSS	CONTRACTOR	REFER TO SHERWIN-WILLIAMS PAINT SCHEDULE GUIDE 2019
<b>SEALED CONCRETE</b>						
SC-100	SEALED CONCRETE	CONSOLIDECK	-	CONCRETE PROTECTOR; CLEAR	CONTRACTOR	PENETRATING SEALER; USDA APPROVED
<b>STAINLESS STEEL</b>						
ST-100	STAINLESS STEEL PANEL	-	-	#4 FINISH	CONTRACTOR	-
<b>WALLOVERING</b>						
WC-105	WALL COVERING - FOUNDATION - SLATE	WOLF GORDON / FOUNDATION / FDN 5414 / GOH12294967	52"W	SLATE	CONTRACTOR	-
<b>WOOD</b>						
WD-121	ENGINEERED VINYL PLANK - WADDINGTON OAK	CORETEC / V0035-00915	8.98" X 72.05" X 8MM	WADDINGTON OAK	CASEWORK	-
X-WD-140	WHITE OAK PANELING	MOUNTAIN LUMBER CO / HARVEST WHITE OAK PANELING - CHARACTER GRADE	7" W X 2" TO 12" RANDOM L X 5/8" THK	DISTRESSED WATER-BASED COLOR	CONTRACTOR	-
<b>WIRE MESH</b>						
WM-100	WIRE MESH	WILSONART / 1000000000	2" SQUARE	COLD ROLLED	CONTRACTOR	-

# INTERIOR SIGNAGE SCHEDULE

OWNER'S VENDOR FURNISHED ITEMS INSTALLED BY CONTRACTOR UNLESS OTHERWISE NOTED							
QUANTITY	TAG	ITEM	MANUFACTURER/MODEL/SIZE	FINISH	VENDOR	REMARKS	
1	G-131	CLASSICS BOARD WITH FRAME	CUSTOM	58-1/2"W X 1'D X 79-3/8"H	16GA STEEL PAN POWDERCOATED MATTE BLACK	INTERIOR SIGNAGE VENDOR	COMES WITH 9" FRAME MECHANICALLY FASTENED TO MAIN PAN. INSTALLED WITH Z-CLIPS. PROVIDED. IT CAN BE INSTALLED WITHOUT FRAME
1	G-133	DRINKS HANGING MENU BOARD	CUSTOM	46"W X 1'D X 31"H	20GA STEEL PAN POWDERCOATED MATTE BLACK	INTERIOR SIGNAGE VENDOR	BLACK MAGNETS MAGNETICALLY MOUNTED TO FACE OF PAN. HANGING BRACKET ATTACHES TO MDF BOARD WITH LOCK NUT. INSTALL WITH WIRE CABLE TO ENGINE SOFFIT
1	G-134	EXTRAS HANGING MENU BOARD	CUSTOM	51-1/2"W X 1'D X 31"H	20GA STEEL PAN POWDERCOATED MATTE BLACK	INTERIOR SIGNAGE VENDOR	BLACK MAGNETS MAGNETICALLY MOUNTED TO FACE OF PAN. HANGING BRACKET ATTACHES TO MDF BOARD WITH LOCK NUT. INSTALL WITH WIRE CABLE TO ENGINE SOFFIT
1	G-137	COMMUNITY BOARD - 48X48	CUSTOM	47-1/2"W X 3/4"D X 47-1/2"H	STEEL CHASSIS POWDERCOATED MATTE BLACK	INTERIOR SIGNAGE VENDOR	DIRECT PRINTED STORE LOGO ON FACE; INSTALL WITH Z-CLIPS. PROVIDED
1	G-141-L	ORDER HERE SIGN - LEFT	CUSTOM	24" DIA X 5'D	ALUMINUM WITH HOT ROLLED STEEL FINISH FAUX NEON LED	INTERIOR SIGNAGE VENDOR	PLUG INTO WALL RECEPTACLE. SEE SHOPS FOR MOUNTING - PROVIDE BLOCKING WHERE REQUIRED
1	G-142-TM	ONLINE PICKUP SIGN - TOP	CUSTOM	24" DIA X 5'D (PIPE SUPPORT LENGTH - 36")	ALUMINUM WITH HOT ROLLED STEEL FINISH FAUX NEON LED	INTERIOR SIGNAGE VENDOR	PLUG INTO WALL RECEPTACLE. SEE SHOPS FOR MOUNTING - PROVIDE BLOCKING WHERE REQUIRED; CUT SUPPORT TUBE ON SITE PER SITE CONDITIONS

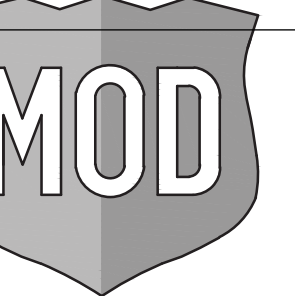
1	G-307	DOOR TO REMAIN UNLOCKED SIGN	RESTROOM REMODELS / D115	24"W X 1.5'H	VINYL DECAL	CONTRACTOR	SEE 9/A-601
1	G-308	OCCUPANCY SIGN	RESTROOM REMODELS / EP5380	6"W X 6"H	PLASTIC; WHITE ON BLACK	CONTRACTOR	MOUNT AT 48" AFF. SEE 9/A-601; PROVIDE NUMERICAL VALUE TO VENDOR WHEN ORDERING - SEE A-112 FOR NUMERICAL VALUE FOR EACH SIGN
2	G-309-VT	TACTILE EXIT SIGN - VERTICAL	RESTROOM REMODELS / MOD2853	2"W X 8"H	PLASTIC; WHITE ON BLACK	CONTRACTOR	SEE 9/A-601; SOURCE FROM RESTROOM REMODELS
1	G-311-MW	ACCESSIBLE RESTROOM WALL SIGN - MEN	RESTROOM REMODELS / EPO002MOD	6"W X 9"H X 1/8"D	1/32" TACTILE GRAPHICS & WORDING; 5/8" TEXT	CONTRACTOR	SEE 9/A-601; SOURCE FROM RESTROOM REMODELS
1	G-311-WW	ACCESSIBLE RESTROOM WALL SIGN - WOMEN	RESTROOM REMODELS / EPO004-BLACK	6"W X 9"H X 1/8"D	1/32" TACTILE GRAPHICS & WORDING; 5/8" TEXT	CONTRACTOR	SEE 9/A-601; SOURCE FROM RESTROOM REMODELS

# SHEET NOTES

- REFER TO A-131 FOR FLOOR & BASE FINISHES.
- REFER TO A-131 FOR TRIM FINISHES.

RELEASE FOR CONSTRUCTION AS NOTED ON PLANS REVIEW DEVELOPMENT SERVICES LEE'S SUMMIT, MISSOURI

10/27/2021



2035 158th CT NE  
Suite 200  
Bellevue, WA 98008

ARCHITECT OF RECORD

**INTERPLAN**  
INTERPLAN LLC

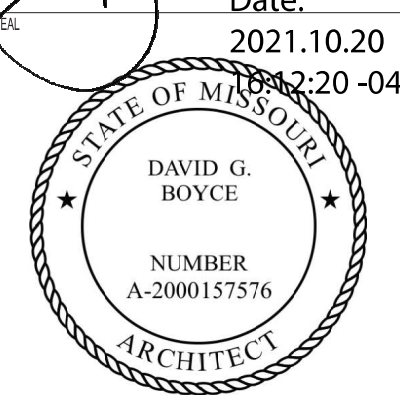
ARCH COA #2015008774  
ENG COA #2005026904

ARCHITECTURE  
ENGINEERING  
PERMITTING

220 E. CENTRAL PKWY. STE 4000  
ALAMONTE SPRINGS, FL 32701  
407.645.5008  
PROJECT NO. 2021.0524

CONSULTANT

Digitally signed by David Boyce  
Date: 2021.10.20  
16:20:04-00'



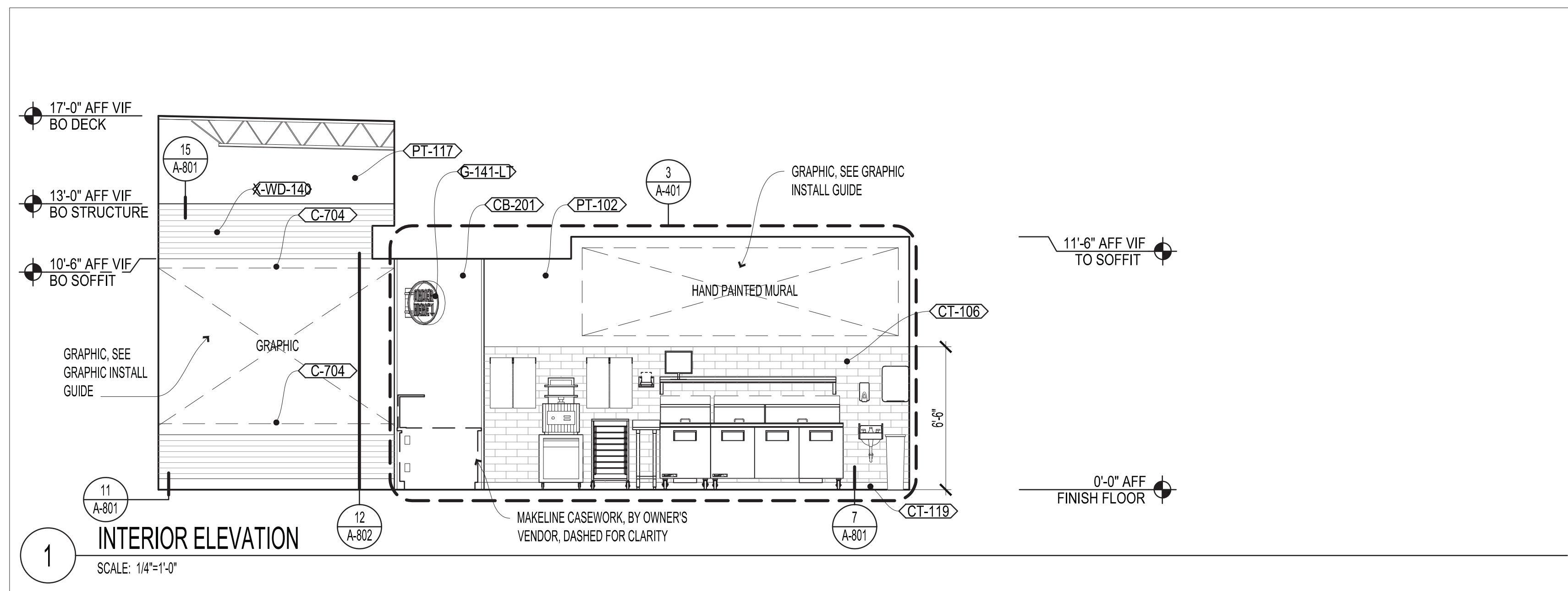
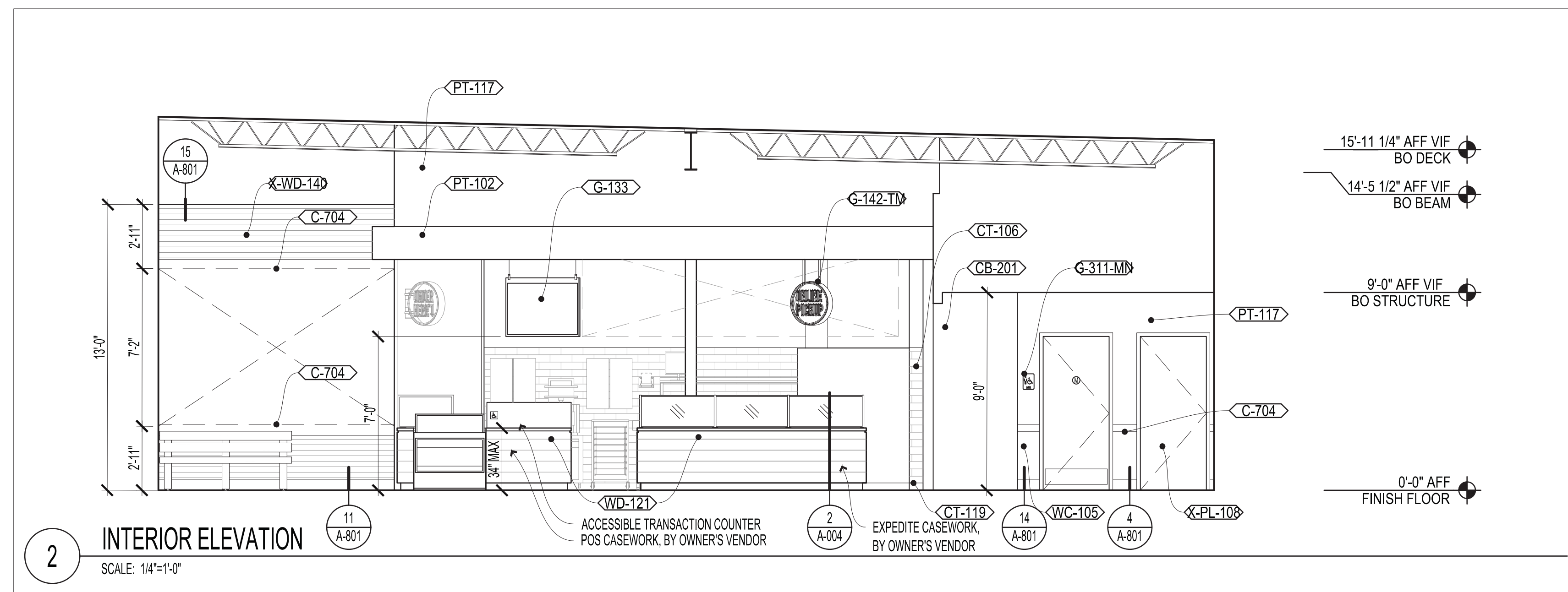
**MOD LEE'S SUMMIT**  
460 NW CHIPMAN RD  
LEE'S SUMMIT, MO 64086

ISSUED / REVISED DATE  
BUILDING COMMENTS 10.18.21  
DESIGN UPGRADES 10.18.21

PERMIT SET 09.20.21

**A702**  
INTERIOR ELEVATIONS  
DINING

CHECKED: EM DRAWN: AL



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# FINISH SCHEDULE

ALL FINISHES FURNISHED AND INSTALLED BY CONTRACTOR UNLESS OTHERWISE NOTED. USE MOD PIZZA NATIONAL ACCOUNT CONTACTS WHERE INDICATED						
TAG	ITEM	MANUFACTURER/MODEL	SIZE	FINISH	VENDOR	REMARKS
<b>BASE</b>						
BA-100	RUBBER COVE BASE - 6"	ARMSTRONG / R6161	6"H	*Graphite Gray LRV: 7 Paint Match - SW7062	CONTRACTOR	CONTINUOUS CLEAR SILICON BEAD AT BASE TOP TO WALL FINISH
BA-102	RUBBER COVE BASE - 4"	ARMSTRONG / V4161	4"H	*Graphite Gray LRV: 7 Paint Match - SW7062	CONTRACTOR	EMPLOYEE SIDE OF CASEWORK; CONTINUOUS CLEAR SILICON BEAD AT BASE TOP TO WALL FINISH
<b>CEMENT/ CONCRETE BOARD</b>						
CB-201	2STONE INDUSTRIAL VENEER	2STONE / INDUSTRIAL VENEER	36"X 48" X 5/8" THK	STANDARD GRAY	CONTRACTOR	REQUIRES 5/8" PLYWOOD SUBSTRATE. INSTALL PANELS TO MATCH PATTERN SHOWN. SCREW EACH DIVOT & GLUE TO SUBSTRATE. ALLOW FOR 1/8" REVEAL BETWEEN PANELS. WITH SUBSTRATE PAINTED PT-103 (BLACK). CONCEAL SCREWS AND REVEALS BY CAULKING TO MATCH CONCRETE GREY PANELS. SEAL WITH DRY TREAT STAIN PROOF, PREMIUM IMPREGNATING SEALER, APPLY SEALER PRIOR TO ANY GRAPHIC APPLICATIONS.
<b>CEILINGS</b>						
CL-100	2X4 ACOUSTIC CEILING PANEL	OWENS CORNING	2'W X 4'L X 2" THK	*White; Vinyl Face LRV: 76	CONTRACTOR	2" THICK
<b>TILE</b>						
CT-106	4X12 WALL TILE - ARCTIC WHITE - MATTE	DAL TILE / COLOR WHEEL LINEAR / 0730	4-1/4"W X 12-3/4"L X 5/16" THK	*10790 Arctic White; Matte LRV: 83	CONTRACTOR	*GROUT: Mapei-47 Charcoal (or) TEC AccuColor EFX Epoxy Special Effects Grout in Charcoal Gray for Oven tile application (high-heat surfaces) - SEE SPEC. SECTION 093000 FOR ADD. INFO.
CT-119	4X12 MATTE COVE BASE - ARCTIC WHITE	DAL TILE / COLOR WHEEL LINEAR / AS4C1MOD 4X12CB 0730	4 1/4"W X 12 7/8"L X 5/16" THK	MATTE ARCTIC WHITE	CONTRACTOR	GROUT: MAPEI-47 CHARCOAL
X-CT-223	CEMENT 8X8 TILE - PAVILION II	CEMENT TILE SHOP / PACIFIC CONTEMPORARY COLLECTION PAVILION II	8"X 8" X 5/8" THK	PAVILION II	CONTRACTOR	GROUT: MAPEI-47 CHARCOAL (OR) TEC ACCUCOLOR EFX EPOXY SPECIAL EFFECTS GROUT IN CHARCOAL GRAY FOR OVEN TILE APPLICATION (HIGH-HEAT SURFACES); APPLY CLEAR SEALER
<b>COUNTER SURFACE</b>						
CS-201	SOLID SURFACE - YUKON RIVERSTONE	WILSONART / 9166RS	1/2"; 30" X 144" SLAB	YUKON RIVERSTONE	CASEWORK	-
<b>FABRIC</b>						
FA-105	VINYL - ROUGE	WOLF GORDON / GOH12783688	54" WIDE	ROUGE - EAST VILLAGE (EAV 8402)	CASEWORK	-
<b>FIBER REINFORCED PLASTIC</b>						
FP-100	FIBER REINFORCED PLASTIC - WHITE	MARLITE / STANDARD P100	4'W X 8' OR 10'L X 3/32" THK	*White; Pebbled Surface LRV: 83	CONTRACTOR	TRIM TO MATCH PANEL COLOR; INSTALL IN KITCHEN
FP-101	FIBER REINFORCED PLASTIC - BLACK	MARLITE / STANDARD P807	4'W X 8' OR 10'L X 3/32" THK	*Black; Pebbled Surface LRV: 0.5	CONTRACTOR	TRIM TO MATCH PANEL COLOR; INSTALL BEHIND BEVERAGE CASEWORK
<b>HOT ROLLED STEEL</b>						
HS-103	HOT ROLLED STEEL - POWDERCOAT	-	-	*Prismatic Powders / PPP-4858 / Flattop Black LRV: 9 Paint Match - SW7845	CASEWORK OR BFC METALS	USE DIRECTLY ON HOT ROLLED STEEL; DO NOT USE RECOMMENDED BASE COAT
<b>MELAMINE</b>						
ML-100	MELAMINE - WHITE	MEDEX	-	WHITE	CASEWORK	-
<b>PLASTIC LAMINATE</b>						
PL-105	PLASTIC LAMINATE - BLACK	WILSONART / 1585-60	-	BLACK; MATTE	CASEWORK	-
X-PL-108	PLASTIC LAMINATE - PEPPER ALONA	WILSONART / PEPPER ALONA Y0287	VDL VERTICAL GRADE LAMINATE .028" SHEET SIZE: 4'X8'	PRODUCT TYPE: 362 PATTERN: Y0287-12 FINISH: 12	CONTRACTOR	APPLY FINISH OVER SOLID WOOD RESTROOM DOORS. SEE A-801 FOR DETAILS.
<b>PAINT</b>						
PT-102	PAINT - CEILING BRIGHT WHITE	SHERWIN WILLIAMS / SW7007	-	*Ceiling Bright White; Semi-gloss LRV: 83	CONTRACTOR	REFER TO SHERWIN-WILLIAMS PAINT SCHEDULE GUIDE 2019
PT-103	PAINT - CAVIAR	SHERWIN WILLIAMS / SW9990	-	*Caviar; Semi-gloss LRV: 3	CONTRACTOR	REFER TO SHERWIN-WILLIAMS PAINT SCHEDULE GUIDE 2019
PT-115	PAINT - SHOJI WHITE	SHERWIN WILLIAMS / SW7042	-	SHOJI WHITE; SEMI-GLOSS	CONTRACTOR	REFER TO SHERWIN-WILLIAMS PAINT SCHEDULE GUIDE 2019
PT-117	PAINT - SUBWAY	SHERWIN WILLIAMS / CUSTOM MATCH # 8260-19885 MOD PIZZA TM 0536	-	CUSTOM MATCH COLOR; SEMI-GLOSS	CONTRACTOR	REFER TO SHERWIN-WILLIAMS PAINT SCHEDULE GUIDE 2019
<b>SEALED CONCRETE</b>						
SC-100	SEALED CONCRETE	CONSOLIDECK	-	CONCRETE PROTECTOR, CLEAR	CONTRACTOR	PENETRATING SEALER, USDA APPROVED
<b>STAINLESS STEEL</b>						
ST-100	STAINLESS STEEL PANEL	-	-	#4 FINISH	CONTRACTOR	-
<b>WALLOVERING</b>						
WC-105	WALL COVERING - FOUNDATION - SLATE	WOLF GORDON / FOUNDATION / FDN 5414 / GOH12294667	52"W	SLATE	CONTRACTOR	-
<b>WOOD</b>						
WD-121	ENGINEERED VINYL PLANK - WADDINGTON OAK	CORETEC / V035-00915	8.98" X 72.05" X 8MM	WADDINGTON OAK	CASEWORK	-
X-WD-140	WHITE OAK PANELING	MOUNTAIN LUMBER CO / HARVEST WHITE OAK PANELING - CHARACTER GRADE	7" W X 2" TO 12" RANDOM L X 5/8" THK	DISTRESSED WATER-BASED COLOR	CONTRACTOR	-
<b>WIRE MESH</b>						
WM-100	WIRE MESH	WIRE MESH	2" SQUARE	COLD ROLLED	CONTRACTOR	-

# INTERIOR SIGNAGE SCHEDULE

OWNER'S VENDOR FURNISHED ITEMS INSTALLED BY CONTRACTOR UNLESS OTHERWISE NOTED							
QUANTITY	TAG	ITEM	MANUFACTURER/MODEL/SIZE	FINISH	VENDOR	REMARKS	
1	G-131	CLASSICS BOARD WITH FRAME	CUSTOM	58-1/2"W X 1'D X 7/8-3/8"H	16GA STEEL PAN POWDERCOATED MATTE BLACK	INTERIOR SIGNAGE VENDOR	COMES WITH 9" FRAME MECHANICALLY FASTENED TO MAIN PAN. INSTALLED WITH Z-CLIPS. PROVIDED. IT CAN BE INSTALLED WITHOUT FRAME
1	G-133	DRINKS HANGING MENU BOARD	CUSTOM	46"W X 1'D X 31"H	20GA STEEL PAN POWDERCOATED MATTE BLACK	INTERIOR SIGNAGE VENDOR	BLACK MAGALENS MAGNETICALLY MOUNTED TO FACE OF PAN. HANGING BRACKET ATTACHES TO MDF BOARD WITH LOCK NUT. INSTALL WITH WIRE CABLE TO ENGINE SOFFIT
1	G-134	EXTRAS HANGING MENU BOARD	CUSTOM	51-1/2"W X 1'D X 31"H	20GA STEEL PAN POWDERCOATED MATTE BLACK	INTERIOR SIGNAGE VENDOR	BLACK MAGALENS MAGNETICALLY MOUNTED TO FACE OF PAN. HANGING BRACKET ATTACHES TO MDF BOARD WITH LOCK NUT. INSTALL WITH WIRE CABLE TO ENGINE SOFFIT
1	G-137	COMMUNITY BOARD - 48X48	CUSTOM	47-1/2"W X 34"D X 47-1/2"H	STEEL CHASSIS POWDERCOATED MATTE BLACK	INTERIOR SIGNAGE VENDOR	DIRECT PRINTED STORE LOGO ON FACE. INSTALL WITH Z-CLIPS, PROVIDED
1	G-141-L	ORDER HERE SIGN - LEFT	CUSTOM	24" DIA X 5'D	ALUMINUM WITH HOT ROLLED STEEL FINISH FAUX NEON LED	INTERIOR SIGNAGE VENDOR	PLUG INTO WALL RECEPTACLE. SEE SHOPS FOR MOUNTING - PROVIDE BLOCKING WHERE REQUIRED
1	G-142-TM	ONLINE PICKUP SIGN - TOP	CUSTOM	24" DIA X 5'D (PIPE SUPPORT LENGTH - 36")	ALUMINUM WITH HOT ROLLED STEEL FINISH FAUX NEON LED	INTERIOR SIGNAGE VENDOR	PLUG INTO WALL RECEPTACLE. SEE SHOPS FOR MOUNTING - PROVIDE BLOCKING WHERE REQUIRED; CUT SUPPORT TUBE ON SITE PER SITE CONDITIONS


1	G-307	DOOR TO REMAIN UNLOCKED SIGN	RESTROOM REMODELS / D115	24"W X 1.5'H	VINYL DECAL	CONTRACTOR	SEE 9/A-601
1	G-308	OCCUPANCY SIGN	RESTROOM REMODELS / EP5380	6"W X 6"H	PLASTIC, WHITE ON BLACK	CONTRACTOR	MOUNT AT 48" AFF. SEE 9/A-601; PROVIDE NUMERICAL VALUE TO VENDOR WHEN ORDERING - SEE A-112 FOR NUMERICAL VALUE FOR EACH SIGN
2	G-309-VT	TACTILE EXIT SIGN - VERTICAL	RESTROOM REMODELS / MOD2853	2"W X 8"H	PLASTIC, WHITE ON BLACK	CONTRACTOR	SEE 9/A-601; SOURCE FROM RESTROOM REMODELS
1	G-311-MW	ACCESSIBLE RESTROOM WALL SIGN - MEN	RESTROOM REMODELS / EPO002MOD	6"W X 9"H X 1/8"D 1/32" TACTILE GRAPHICS & WORDING, 5/8" TEXT	PLASTIC, WHITE ON BLACK	CONTRACTOR	SEE 9/A-601; SOURCE FROM RESTROOM REMODELS
1	G-311-WW	ACCESSIBLE RESTROOM WALL SIGN - WOMEN	RESTROOM REMODELS / EPO004-BLACK	6"W X 9"H X 1/8"D 1/32" TACTILE GRAPHICS & WORDING, 5/8" TEXT	PLASTIC, WHITE ON BLACK	CONTRACTOR	SEE 9/A-601; SOURCE FROM RESTROOM REMODELS

# SHEET NOTES

- REFER TO A-131 FOR FLOOR & BASE FINISHES.
- REFER TO A-131 FOR TRIM FINISHES.


RELEASE FOR CONSTRUCTION AS NOTED ON PLANS REVIEW DEVELOPMENT SERVICES LEE'S SUMMIT, MISSOURI

10/27/2021



2035 158th CT NE  
Suite 200  
Bellevue, WA 98008

ARCHITECT OF RECORD



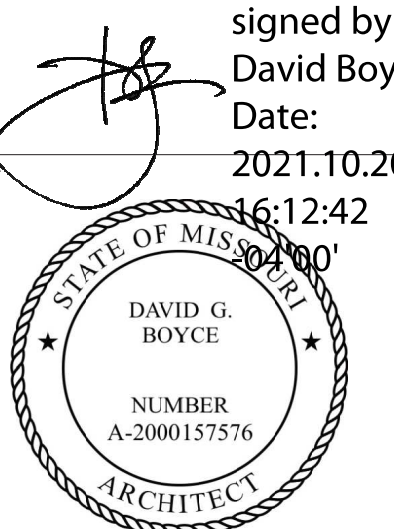
INTERPLAN LLC  
ARCH COA #2015008774  
ENG COA #2005026904

ARCHITECTURE ENGINEERING PERMITTING

220 E. CENTRAL PKWY. STE 4000  
ALAMONTE SPRINGS, FL 32701  
407.645.5008  
PROJECT NO. 2021.0524

CONSULTANT

Digitally signed by David Boyce  
Date: 2021.10.20 16:12:42



DAVID G. BOYCE  
NUMBER A-2000157576  
ARCHITECT

**MOD LEE'S SUMMIT**  
460 NW CHIPMAN RD  
LEE'S SUMMIT, MO 64086

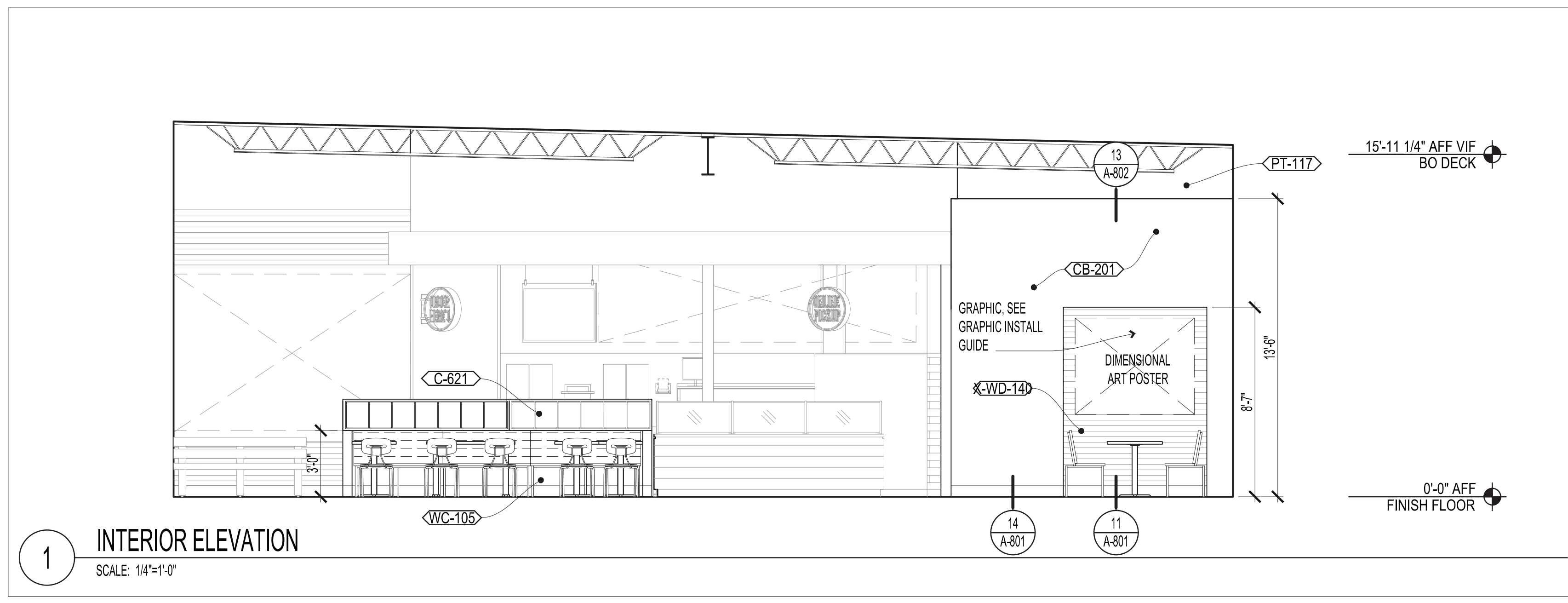
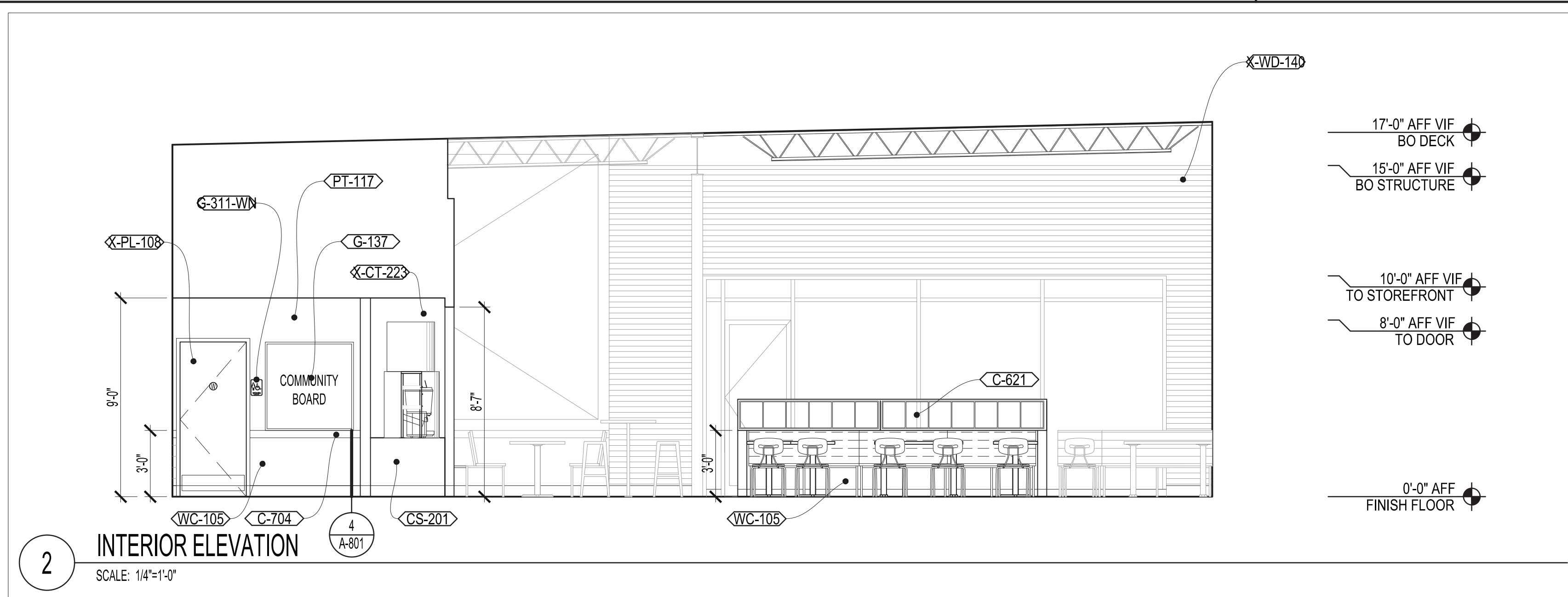
ISSUED / REVISED DATE

△ BUILDING COMMENTS	10.18.21
△ DESIGN UPGRADES	10.18.21

PERMIT SET 09.20.21

**A703**  
INTERIOR ELEVATIONS DINING

CHECKED: EM DRAWN: AL



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# FINISH SCHEDULE

ALL FINISHES FURNISHED AND INSTALLED BY CONTRACTOR UNLESS OTHERWISE NOTED. USE MOD PIZZA NATIONAL ACCOUNT CONTACTS WHERE INDICATED						
TAG	ITEM	MANUFACTURER/MODEL	SIZE	FINISH	VENDOR	REMARKS
<b>BASE</b>						
BA-100	RUBBER COVE BASE - 6"	ARMSTRONG / R6161	6"H	*Graphite Gray LRV: 7 Paint Match - SW7062	CONTRACTOR	CONTINUOUS CLEAR SILICON BEAD AT BASE TOP TO WALL FINISH
BA-102	RUBBER COVE BASE - 4"	ARMSTRONG / V4161	4"H	*Graphite Gray LRV: 7 Paint Match - SW7062	CONTRACTOR	EMPLOYEE SIDE OF CASEWORK; CONTINUOUS CLEAR SILICON BEAD AT BASE TOP TO WALL FINISH
<b>CEMENT/ CONCRETE BOARD</b>						
CB-201	2STONE INDUSTRIAL VENEER	2STONE / INDUSTRIAL VENEER	36"X 48" X 5/8" THK	STANDARD GRAY	CONTRACTOR	REQUIRES 5/8" PLYWOOD SUBSTRATE. INSTALL PANELS TO MATCH PATTERN SHOWN. SCREW EACH DIVOT & GLUE TO SUBSTRATE. ALLOW FOR 1/8" REVEAL BETWEEN PANELS. WITH SUBSTRATE PAINTED PT-103 (BLACK). CONCEAL SCREWS AND REVEALS BY CAULKING TO MATCH CONCRETE GREY PANELS. SEAL WITH DRY TREAT STAIN PROOF. PREMIUM IMPREGNATING SEALER. APPLY SEALER PRIOR TO ANY GRAPHIC APPLICATIONS.
<b>CEILING</b>						
CL-100	2X4 ACOUSTIC CEILING PANEL	OWENS CORNING	2'W X 4'L X 2" THK	*White; Vinyl Face LRV: 76	CONTRACTOR	2" THICK
<b>TILE</b>						
CT-106	4X12 WALL TILE - ARCTIC WHITE - MATTE	DAL TILE / COLOR WHEEL LINEAR / 0790	4-1/4" W X 12-3/4" L X 5/16" THK	*10790 Arctic White; Matte LRV: 83	CONTRACTOR	*GROUT: MAPEI-47 Charcoal (or) TEC AccuColor EFX Epoxy Special Effects Grout in Charcoal Gray for Oven tile application (high-heat surfaces)-SEE SPEC. SECTION 093000 FOR ADD. INFO.
CT-119	4X12 MATTE COVE BASE - ARCTIC WHITE	DAL TILE / COLOR WHEEL LINEAR / AS4C1MOD 4X12CB 0790	4 1/4" W X 12 7/8" L X 5/16" THK	MATTE ARCTIC WHITE	CONTRACTOR	GROUT: MAPEI-47 CHARCOAL
X-CT-223	CEMENT 8X8 TILE - PAVILION II	CEMENT TILE SHOP / PACIFIC CONTEMPORARY COLLECTION PAVILION II	8" W X 8" L X 5/8" THK	PAVILION II	CONTRACTOR	GROUT: MAPEI-47 CHARCOAL (OR) TEC ACCUCOLOR EFX EPOXY SPECIAL EFFECTS GROUT IN CHARCOAL GRAY FOR OVEN TILE APPLICATION (HIGH-HEAT SURFACES); APPLY CLEAR SEALER
<b>COUNTER SURFACE</b>						
CS-201	SOLID SURFACE - YUKON RIVERSTONE	WILSONART / 9166RS	1/2"; 30" X 144" SLAB	YUKON RIVERSTONE	CASEWORK	-
<b>FABRIC</b>						
FA-105	VINYL - ROUGE	WOLF GORDON / GOH12783888	54" WIDE	ROUGE - EAST VILLAGE (EAV 8402)	CASEWORK	-
<b>FIBER REINFORCED PLASTIC</b>						
FP-100	FIBER REINFORCED PLASTIC - WHITE	MARLITE / STANDARD P100	4' W X 8' OR 10' L X 3/32" THK	*White; Pebbled Surface LRV: 83	CONTRACTOR	TRIM TO MATCH PANEL COLOR; INSTALL IN KITCHEN
FP-101	FIBER REINFORCED PLASTIC - BLACK	MARLITE / STANDARD P807	4' W X 8' OR 10' L X 3/32" THK	*Black; Pebbled Surface LRV: 0.5	CONTRACTOR	TRIM TO MATCH PANEL COLOR; INSTALL BEHIND BEVERAGE CASEWORK
<b>HOT ROLLED STEEL</b>						
HS-103	HOT ROLLED STEEL - POWDERCOAT	-	-	*Prismatic Powders / PPP-4858 / Flattop Black LRV: 9 Paint Match - SW7845	CASEWORK OR BFC METALS	USE DIRECTLY ON HOT ROLLED STEEL; DO NOT USE RECOMMENDED BASE COAT
<b>MELAMINE</b>						
ML-100	MELAMINE - WHITE	MEDEX	-	WHITE	CASEWORK	-
<b>PLASTIC LAMINATE</b>						
PL-105	PLASTIC LAMINATE - BLACK	WILSONART / 1585-60	-	BLACK; MATTE	CASEWORK	-
X-PL-108	PLASTIC LAMINATE - PEPPER ALONA	WILSONART / PEPPER ALONA Y0287	-	VOL VERTICAL GRADE LAMINATE .028" SHEET SIZE: 4'X8'	CONTRACTOR	APPLY FINISH OVER SOLID WOOD RESTROOM DOORS. SEE A-801 FOR DETAILS.
<b>PAINT</b>						
PT-102	PAINT - CEILING BRIGHT WHITE	SHERWIN WILLIAMS / SW7007	-	*Ceiling Bright White; Semi-gloss LRV: 83	CONTRACTOR	REFER TO SHERWIN-WILLIAMS PAINT SCHEDULE GUIDE 2019
PT-103	PAINT - CAVIAR	SHERWIN WILLIAMS / SW9990	-	*Caviar; Semi-gloss LRV: 3	CONTRACTOR	REFER TO SHERWIN-WILLIAMS PAINT SCHEDULE GUIDE 2019
PT-115	PAINT - SHOUJI WHITE	SHERWIN WILLIAMS / SW7042	-	SHOUJI WHITE; SEMI-GLOSS	CONTRACTOR	REFER TO SHERWIN-WILLIAMS PAINT SCHEDULE GUIDE 2019
PT-117	PAINT - SUBWAY	SHERWIN WILLIAMS / CUSTOM MATCH # 8260-19885 MOD PIZZA TM 0536	-	CUSTOM MATCH COLOR; SEMI-GLOSS	CONTRACTOR	REFER TO SHERWIN-WILLIAMS PAINT SCHEDULE GUIDE 2019
<b>SEALED CONCRETE</b>						
SC-100	SEALED CONCRETE	CONSOLIDECK	-	CONCRETE PROTECTOR, CLEAR	CONTRACTOR	PENETRATING SEALER, USDA APPROVED
<b>STAINLESS STEEL</b>						
ST-100	STAINLESS STEEL PANEL	-	-	#4 FINISH	CONTRACTOR	-
<b>WALLCOVERING</b>						
WC-105	WALL COVERING - FOUNDATION - SLATE	WOLF GORDON / FOUNDATION / FDN 5414 / GOH12294967	52"W	SLATE	CONTRACTOR	-
<b>WOOD</b>						
WD-121	ENGINEERED VINYL PLANK - WADDINGTON OAK	CORETEC / V035-00915	8.98" X 72.05" X 8MM	WADDINGTON OAK	CASEWORK	-
X-WD-140	WHITE OAK PANELING	MOUNTAIN LUMBER CO / HARVEST WHITE OAK PANELING - CHARACTER GRADE	7" W X 2" TO 12" RANDOM L X 5/8" THK	DISTRESSED WATER-BASED COLOR	CONTRACTOR	-
<b>WIRE MESH</b>						
WM-103	WIRE MESH	WOLF GORDON / GOH12294967	2" SQUARE	COLD ROLLED	CONTRACTOR	-

# INTERIOR SIGNAGE SCHEDULE

OWNER'S VENDOR FURNISHED ITEMS INSTALLED BY CONTRACTOR UNLESS OTHERWISE NOTED							
QUANTITY	TAG	ITEM	MANUFACTURER/MODEL/SIZE	FINISH	VENDOR	REMARKS	
1	G-131	CLASSICS BOARD WITH FRAME	CUSTOM	58-1/2" W X 1' D X 7/8-3/8" H	16GA STEEL PAN POWDERCOATED MATTE BLACK	INTERIOR SIGNAGE VENDOR	COMES WITH 9" FRAME MECHANICALLY FASTENED TO MAIN PAN. INSTALLED WITH Z-CLIPS. PROVIDED. IT CAN BE INSTALLED WITHOUT FRAME
1	G-133	DRINKS HANGING MENU BOARD	CUSTOM	46" W X 1' D X 31" H	20GA STEEL PAN POWDERCOATED MATTE BLACK	INTERIOR SIGNAGE VENDOR	BLACK MAGALENS MAGNETICALLY MOUNTED TO FACE OF PAN. HANGING BRACKET ATTACHES TO MDF BOARD WITH LOCK NUT. INSTALL WITH WIRE CABLE TO ENGINE SOFFIT
1	G-134	EXTRAS HANGING MENU BOARD	CUSTOM	51-1/2" W X 1' D X 31" H	20GA STEEL PAN POWDERCOATED MATTE BLACK	INTERIOR SIGNAGE VENDOR	BLACK MAGALENS MAGNETICALLY MOUNTED TO FACE OF PAN. HANGING BRACKET ATTACHES TO MDF BOARD WITH LOCK NUT. INSTALL WITH WIRE CABLE TO ENGINE SOFFIT
1	G-137	COMMUNITY BOARD - 48X48	CUSTOM	47-1/2" W X 34" D X 47-1/2" H	STEEL CHASSIS POWDERCOATED MATTE BLACK	INTERIOR SIGNAGE VENDOR	DIRECT PRINTED STORE LOGO ON FACE. INSTALL WITH Z-CLIPS. PROVIDED
1	G-141-T	ORDER HERE SIGN - LEFT	CUSTOM	24" DIA X 5'D	ALUMINUM WITH HOT ROLLED STEEL FINISH FAUX NEON LED	INTERIOR SIGNAGE VENDOR	PLUG INTO WALL RECEPTACLE. SEE SHOPS FOR MOUNTING - PROVIDE BLOCKING WHERE REQUIRED
1	G-142-TM	ONLINE PICKUP SIGN - TOP	CUSTOM	24" DIA X 5'D (PIPE SUPPORT LENGTH - 36")	ALUMINUM WITH HOT ROLLED STEEL FINISH FAUX NEON LED	INTERIOR SIGNAGE VENDOR	PLUG INTO WALL RECEPTACLE. SEE SHOPS FOR MOUNTING - PROVIDE BLOCKING WHERE REQUIRED; CUT SUPPORT TUBE ON SITE PER SITE CONDITIONS

1	G-307	DOOR TO REMAIN UNLOCKED SIGN	RESTROOM REMODELS / D115	24" W X 1.5' H	VINYL DECAL	CONTRACTOR	SEE 9/A-801
1	G-308	OCCUPANCY SIGN	RESTROOM REMODELS / EP5380	6' W X 6' H	PLASTIC, WHITE ON BLACK	CONTRACTOR	MOUNT AT 48" AFF. SEE 9/A-801; PROVIDE NUMERICAL VALUE TO VENDOR WHEN ORDERING - SEE A-112 FOR NUMERICAL VALUE FOR EACH SIGN
2	G-309-VT	TACTILE EXIT SIGN - VERTICAL	RESTROOM REMODELS / MOD2853	2' W X 8' H	PLASTIC, WHITE ON BLACK	CONTRACTOR	SEE 9/A-801; SOURCE FROM RESTROOM REMODELS
1	G-311-MW	ACCESSIBLE RESTROOM WALL SIGN - MEN	RESTROOM REMODELS / EPO002MOD	6' W X 9' H X 1/8' D 1/32" TACTILE GRAPHICS & WORDING, 5/8" TEXT	PLASTIC, WHITE ON BLACK	CONTRACTOR	SEE 9/A-801; SOURCE FROM RESTROOM REMODELS
1	G-311-WW	ACCESSIBLE RESTROOM WALL SIGN - WOMEN	RESTROOM REMODELS / EPO004-BLACK	6' W X 9' H X 1/8' D 1/32" TACTILE GRAPHICS & WORDING, 5/8" TEXT	PLASTIC, WHITE ON BLACK	CONTRACTOR	SEE 9/A-801; SOURCE FROM RESTROOM REMODELS

# SHEET NOTES

- REFER TO A-131 FOR FLOOR & BASE FINISHES.
- REFER TO A-131 FOR TRIM FINISHES.

RELEASE FOR CONSTRUCTION AS NOTED ON PLANS REVIEW DEVELOPMENT SERVICES LEE'S SUMMIT, MISSOURI



2035 158th CT NE  
Suite 200  
Bellevue, WA 98008



ARCH COA #2015008774  
ENG COA #2005026904

ARCHITECTURE ENGINEERING PERMITTING

220 E. CENTRAL PKWY. STE 4000  
ALAMONTE SPRINGS, FL 32701  
407.645.5008  
PROJECT NO. 2021.0524

CONSULTANT

Digitally signed by David Boyce  
Date: 2021.10.20 13:05:04-04'00'



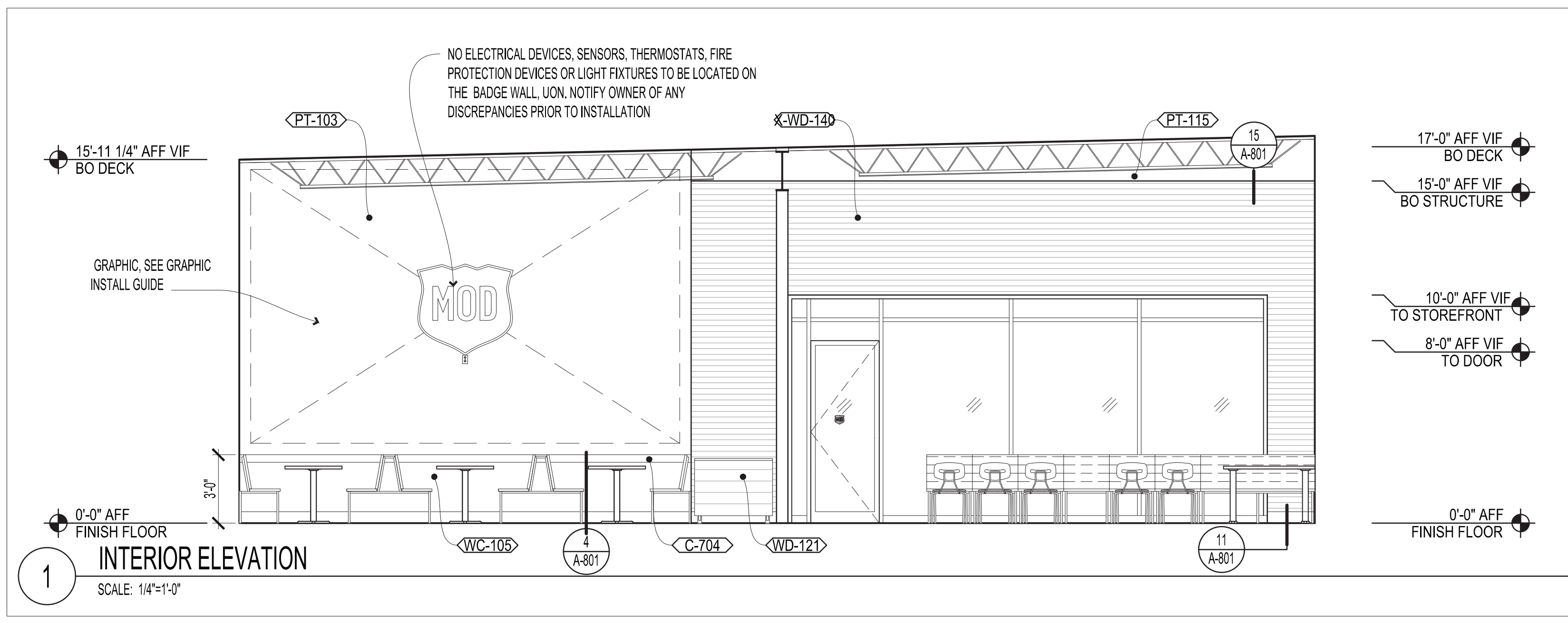
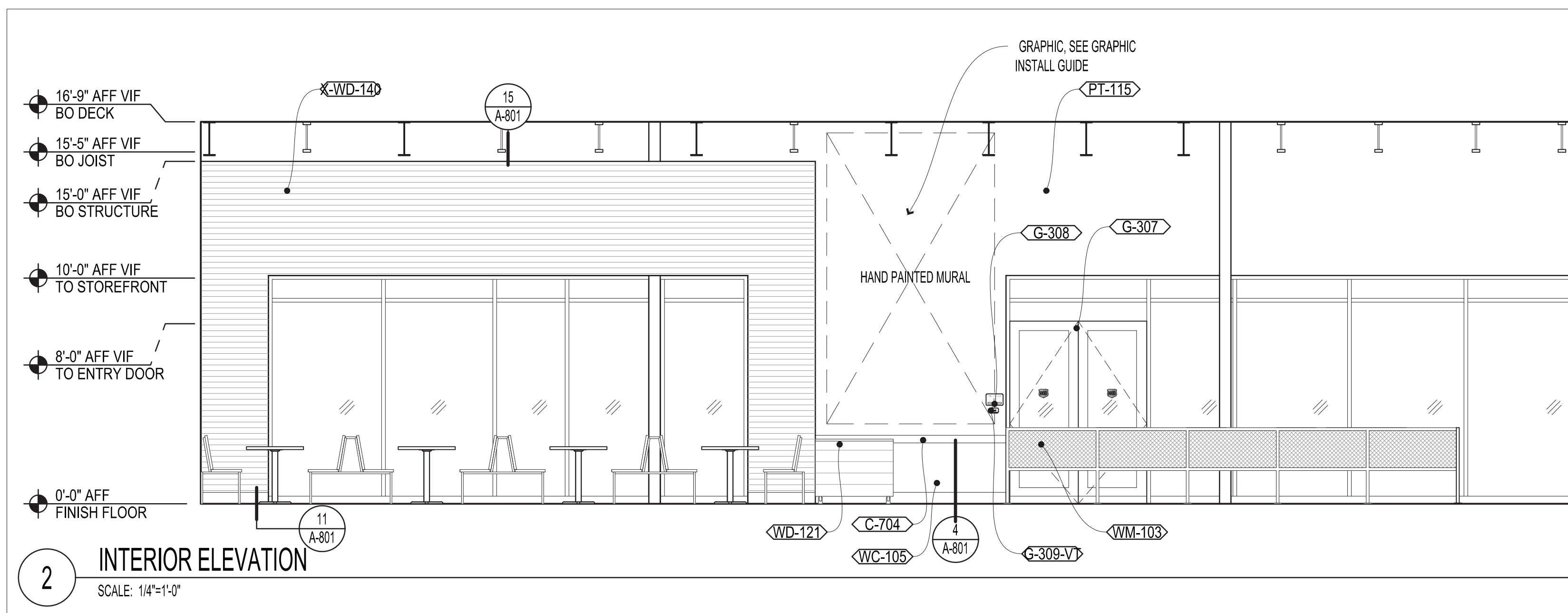
**MOD LEE'S SUMMIT**  
460 NW CHIPMAN RD  
LEE'S SUMMIT, MO 64086

ISSUED / REVISED DATE  
BUILDING COMMENTS 10.18.21  
DESIGN UPGRADES 10.18.21

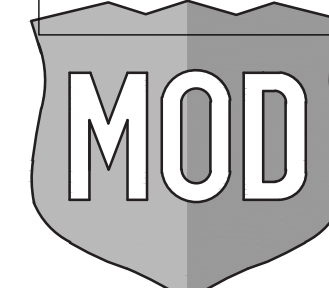
PERMIT SET 09.20.21

**A704**  
INTERIOR ELEVATIONS DINING

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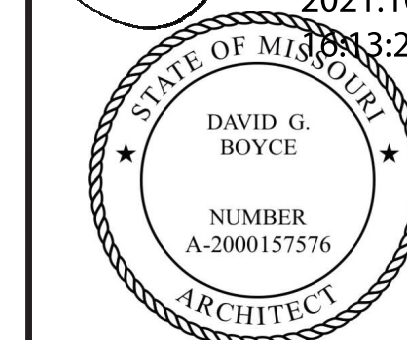
ARCH COA #2015008774  
ENG COA #2005026904

ARCHITECTURE  
ENGINEERING  
PERMITTING

220 E. CENTRAL PKWY. STE 4000  
ALTA MONTE SPRINGS, FL 32701  
407.645.5008  
PROJECT NO. 2021.0524

CONSULTANT

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Date: 2021.10.20 13:26 -04'00'



**MOD LEE'S SUMMIT**  
460 NW CHIPMAN RD  
LEE'S SUMMIT, MO 64086

ISSUED / REVISED	DATE
△ BUILDING COMMENTS	10.18.21
△ DESIGN UPGRADES	10.18.21

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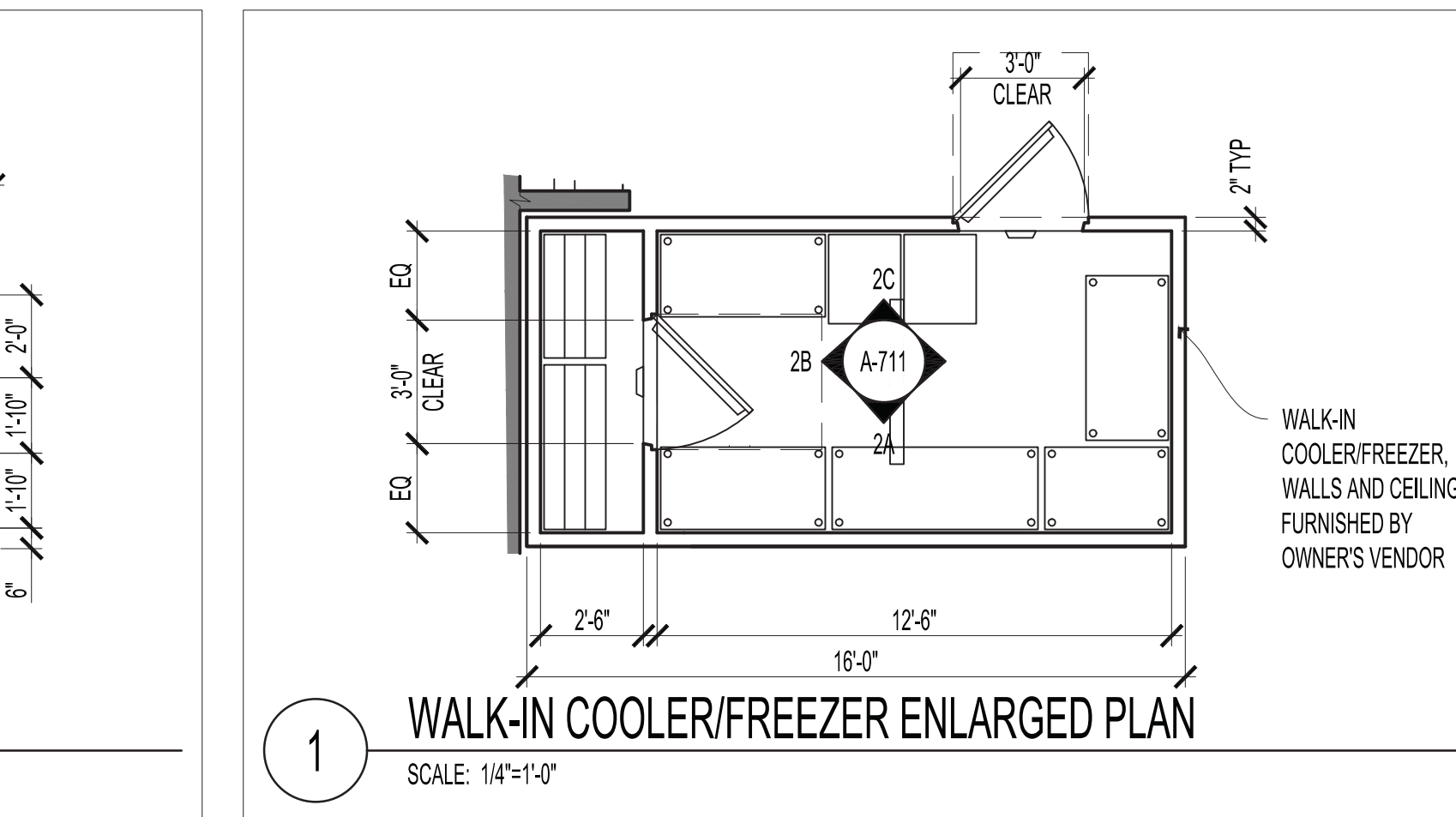
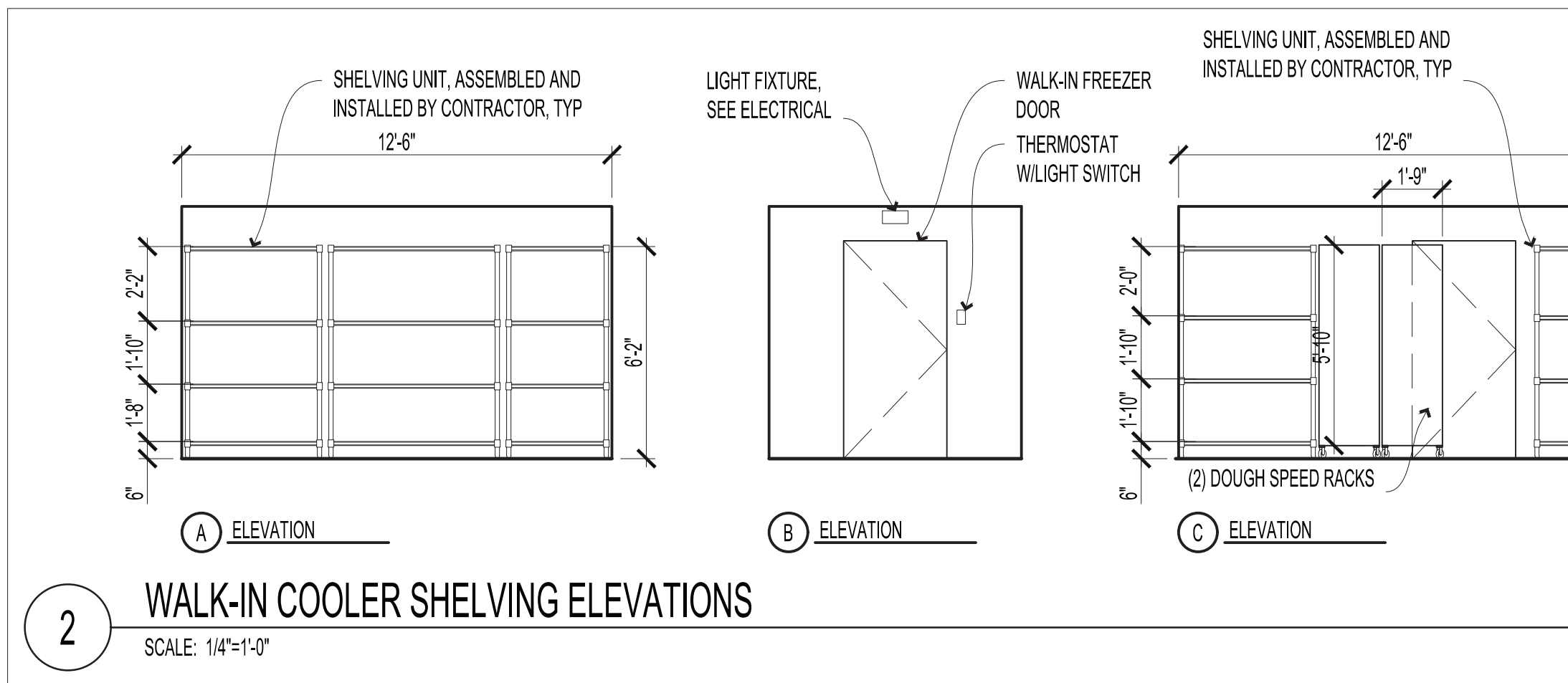
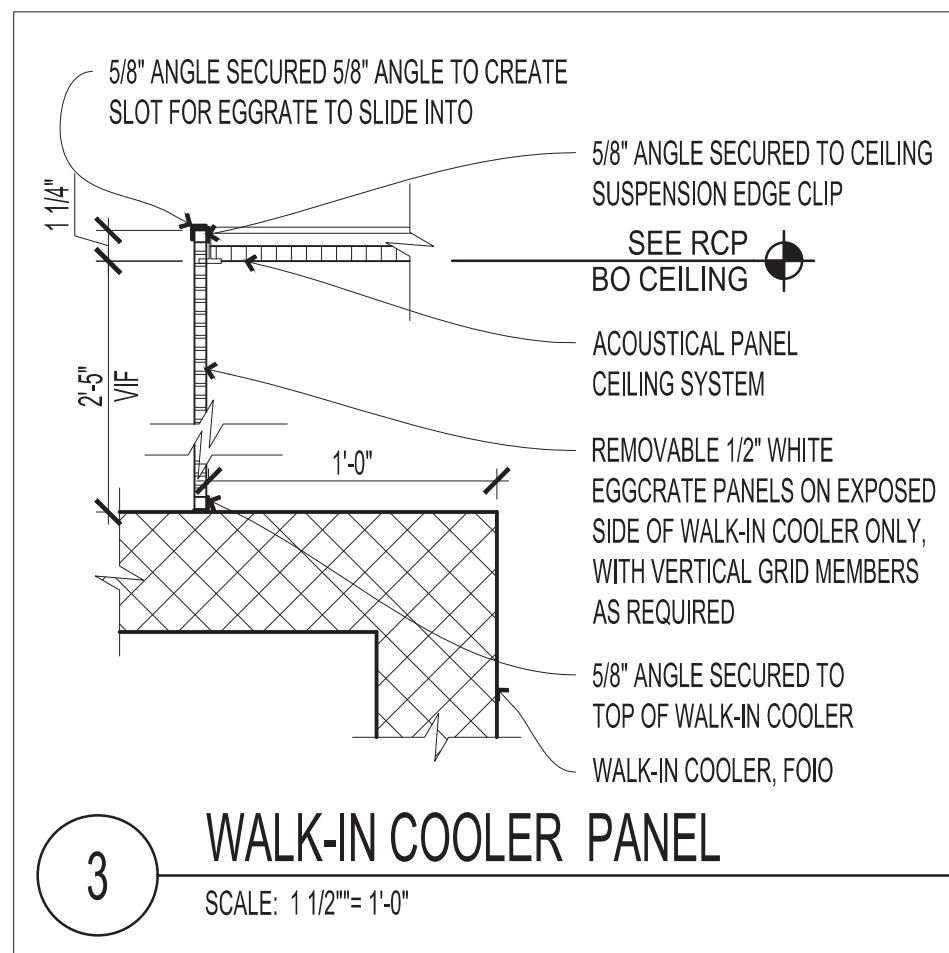
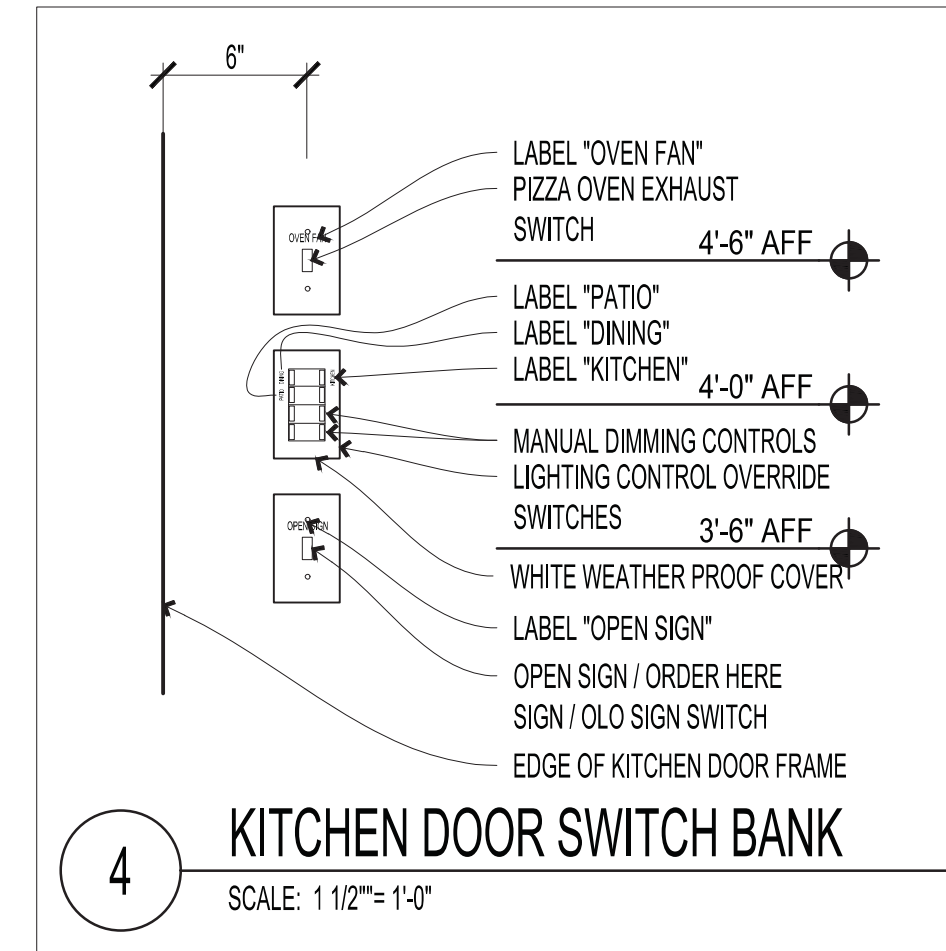
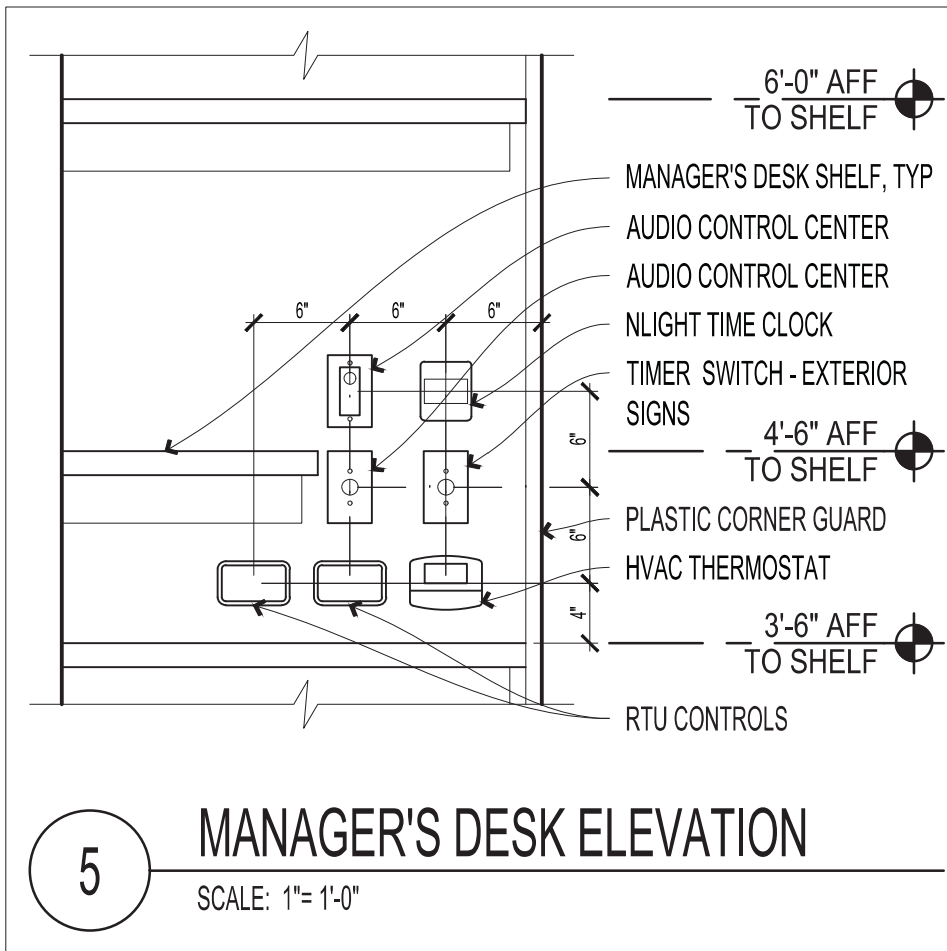
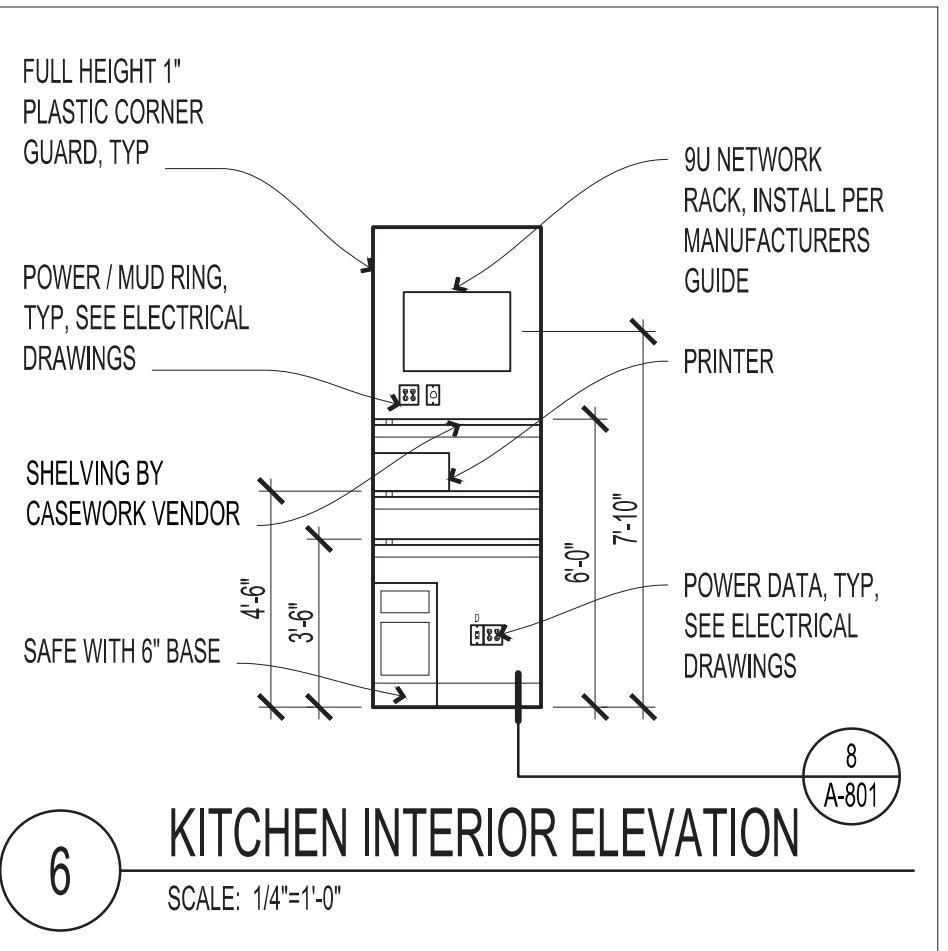
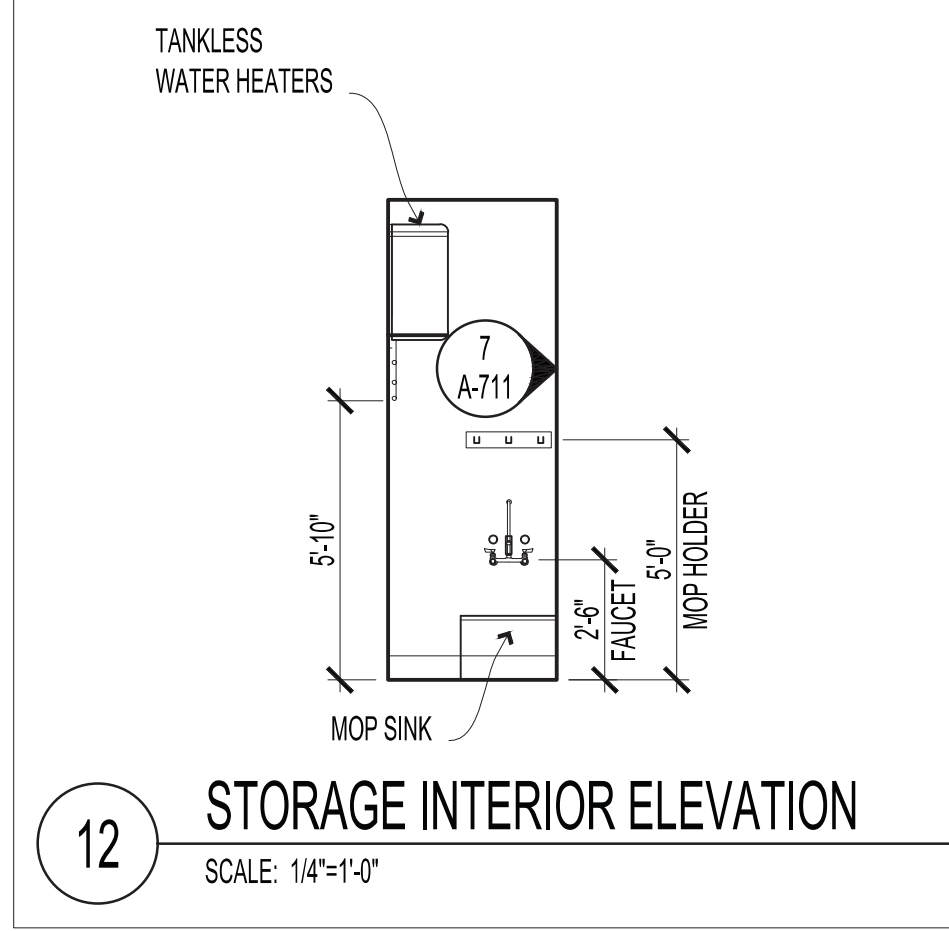
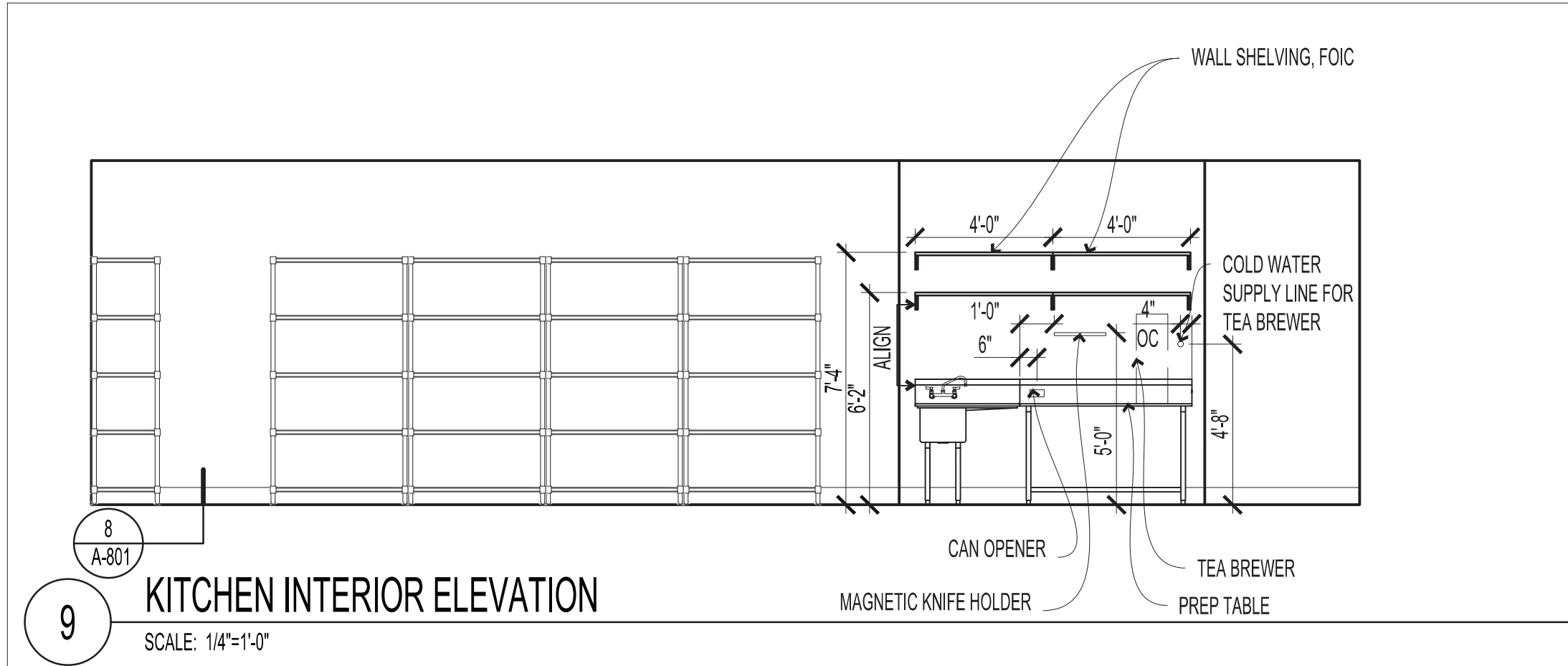
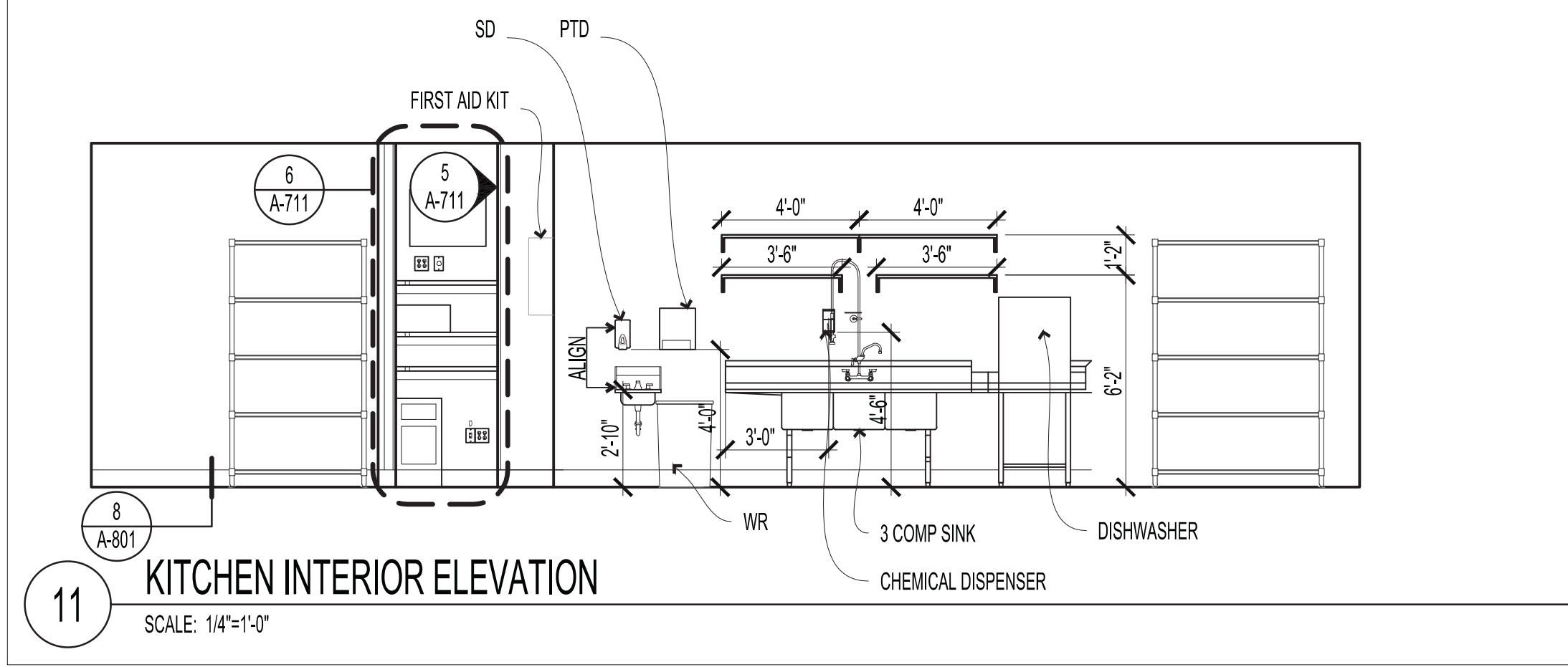
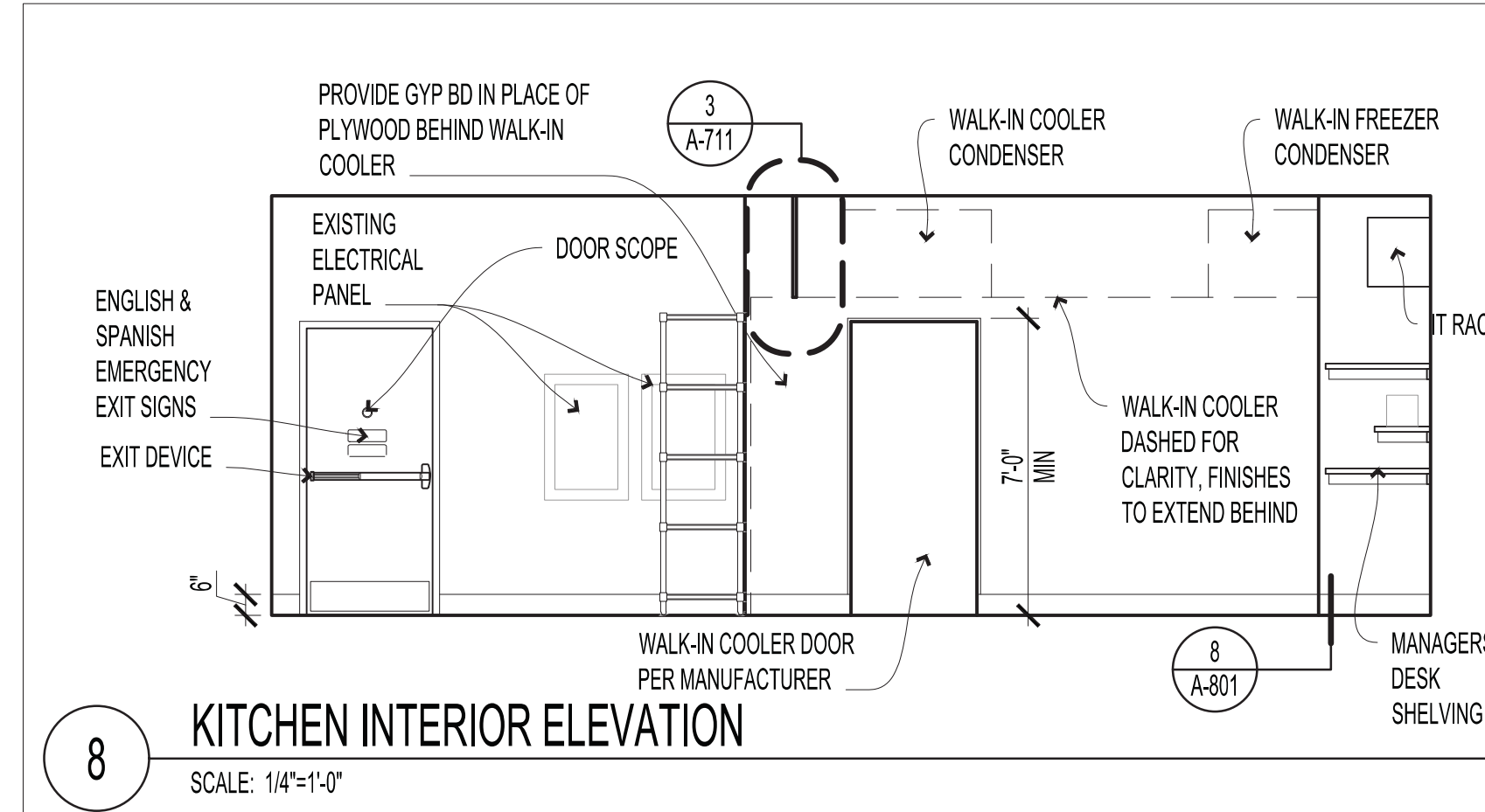
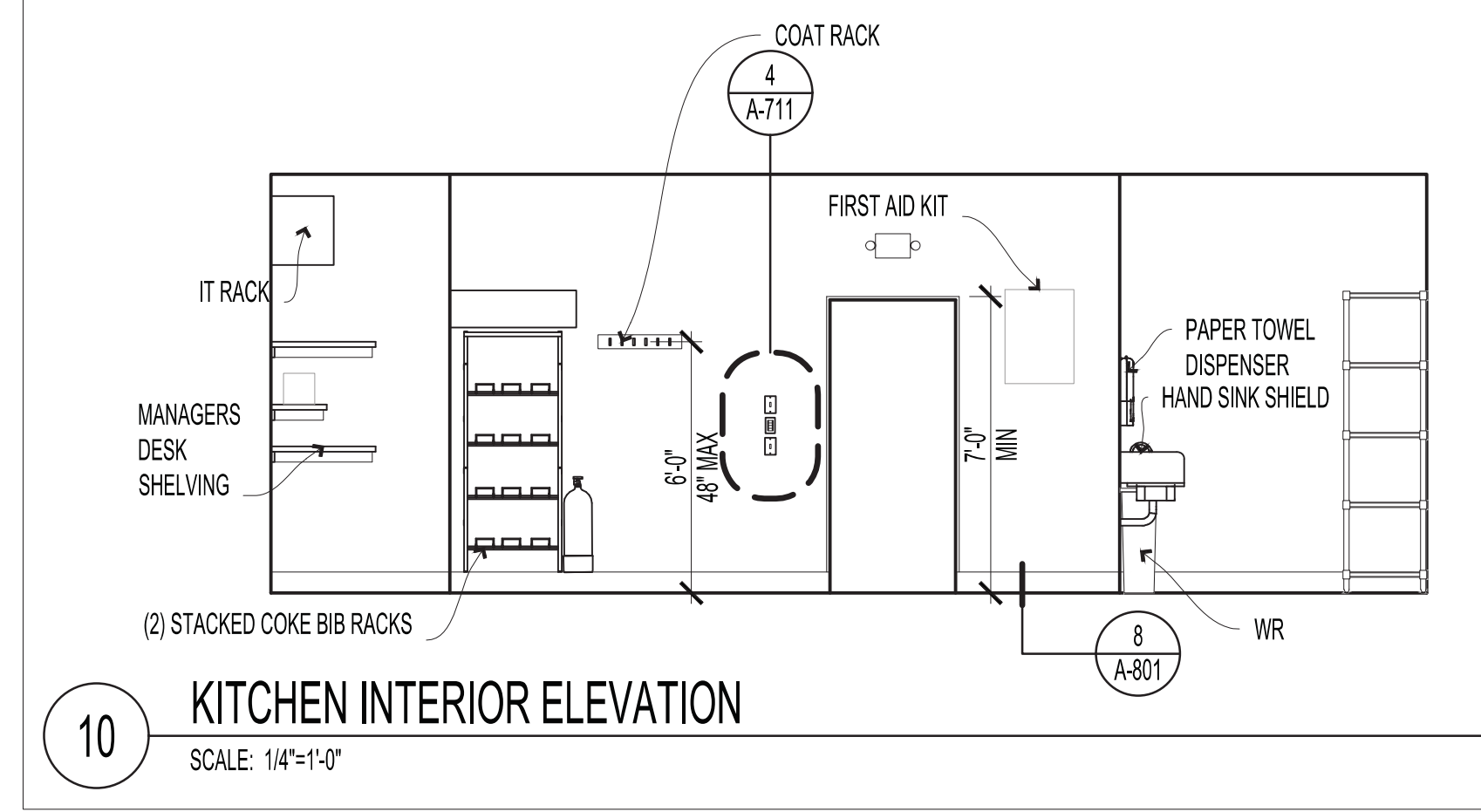
**A-711**  
INTERIOR ELEVATIONS  
KITCHEN

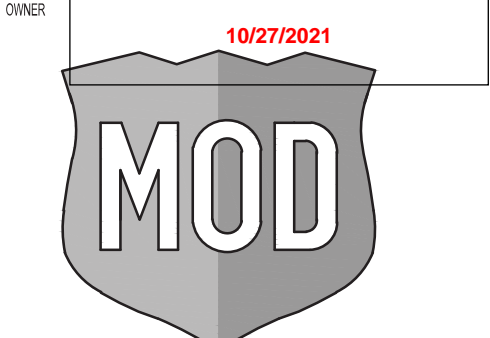
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**SHEET NOTES**

- PER FIRE CODE, ALL STORED ITEMS MUST MAINTAIN A 24" CLEARANCE FROM CEILING.
- SEE REFLECTED CEILING PLAN FOR CEILING HEIGHTS
- ALL KITCHEN WALLS TO BE FP-100. REFER TO A-131 FOR FLOOR, BASE, AND TRIM FINISHES.
- SEE ELECTRICAL SHEETS FOR OUTLET LOCATIONS





2035 158th CT NE  
Suite 200  
Bellevue, WA 98008

ARCHITECT OF RECORD  
**INTERPLAN**  
INTERPLAN LLC

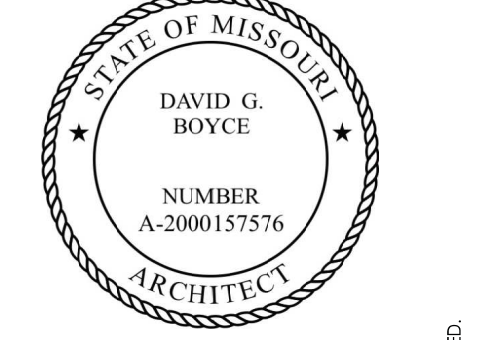
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ENG COA #2005026904

ARCHITECTURE ENGINEERING PERMITTING

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ALTAMONTE SPRINGS, FL 32701  
407.645.5008  
PROJECT NO. 2021.0524

CONSULTANT

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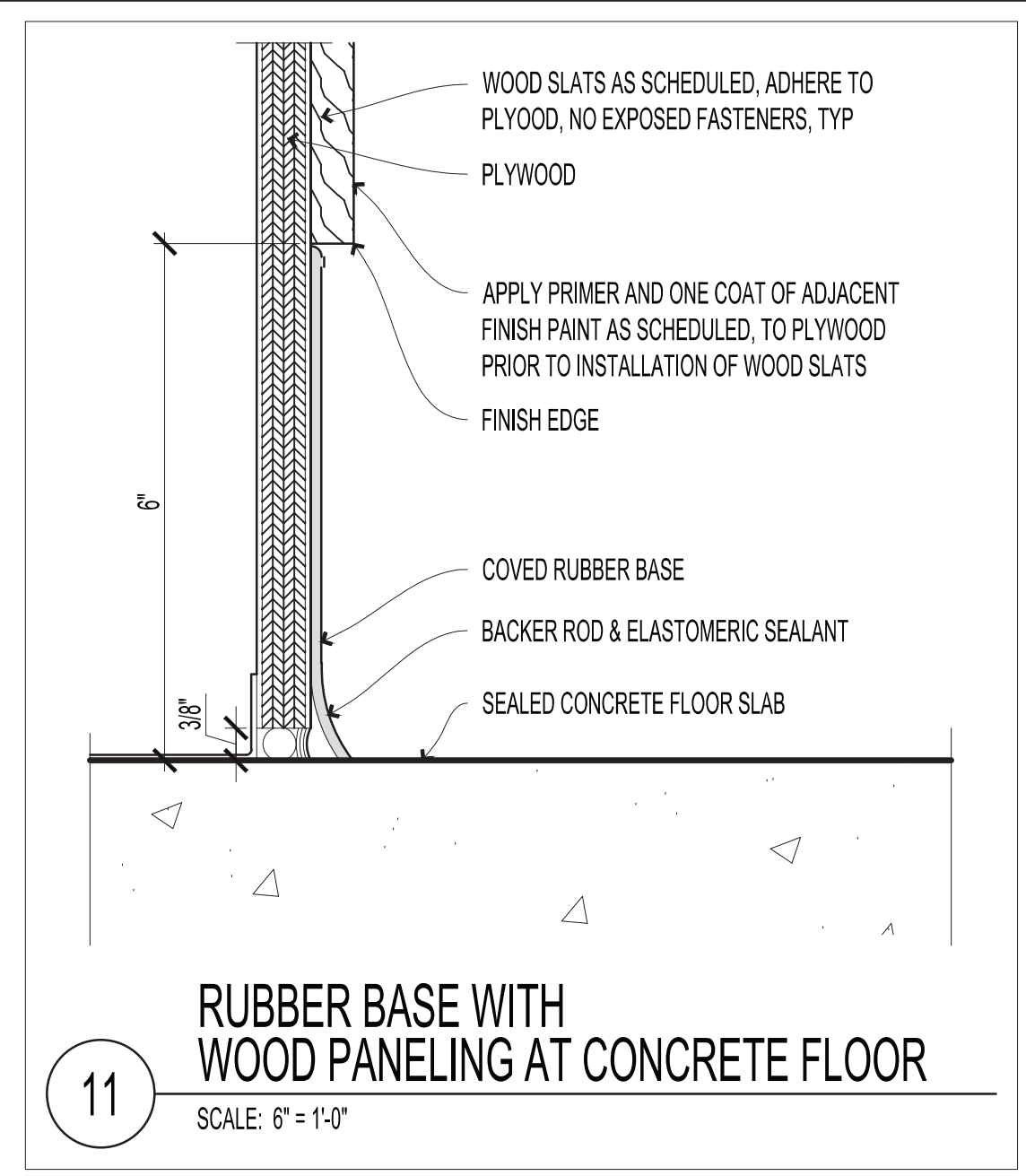
**MOD LEE'S SUMMIT**  
460 NW CHIPMAN RD  
LEE'S SUMMIT, MO 64086

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△ BUILDING COMMENTS	10.18.21
△ DESIGN UPGRADES	10.18.21

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**A-801**  
INTERIOR DETAILS

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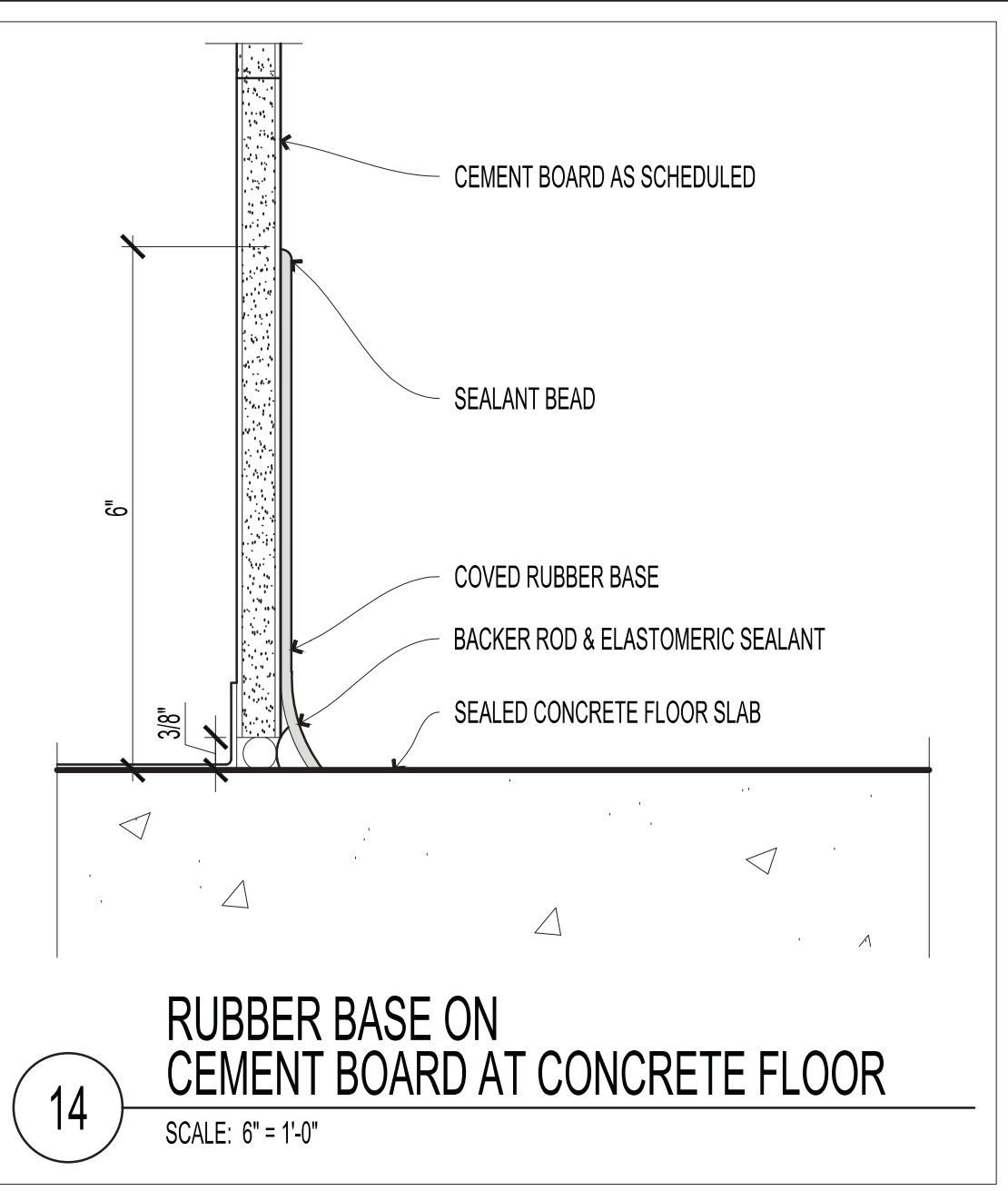
11 RUBBER BASE WITH WOOD PANELING AT CONCRETE FLOOR  
SCALE: 6" = 1'-0"



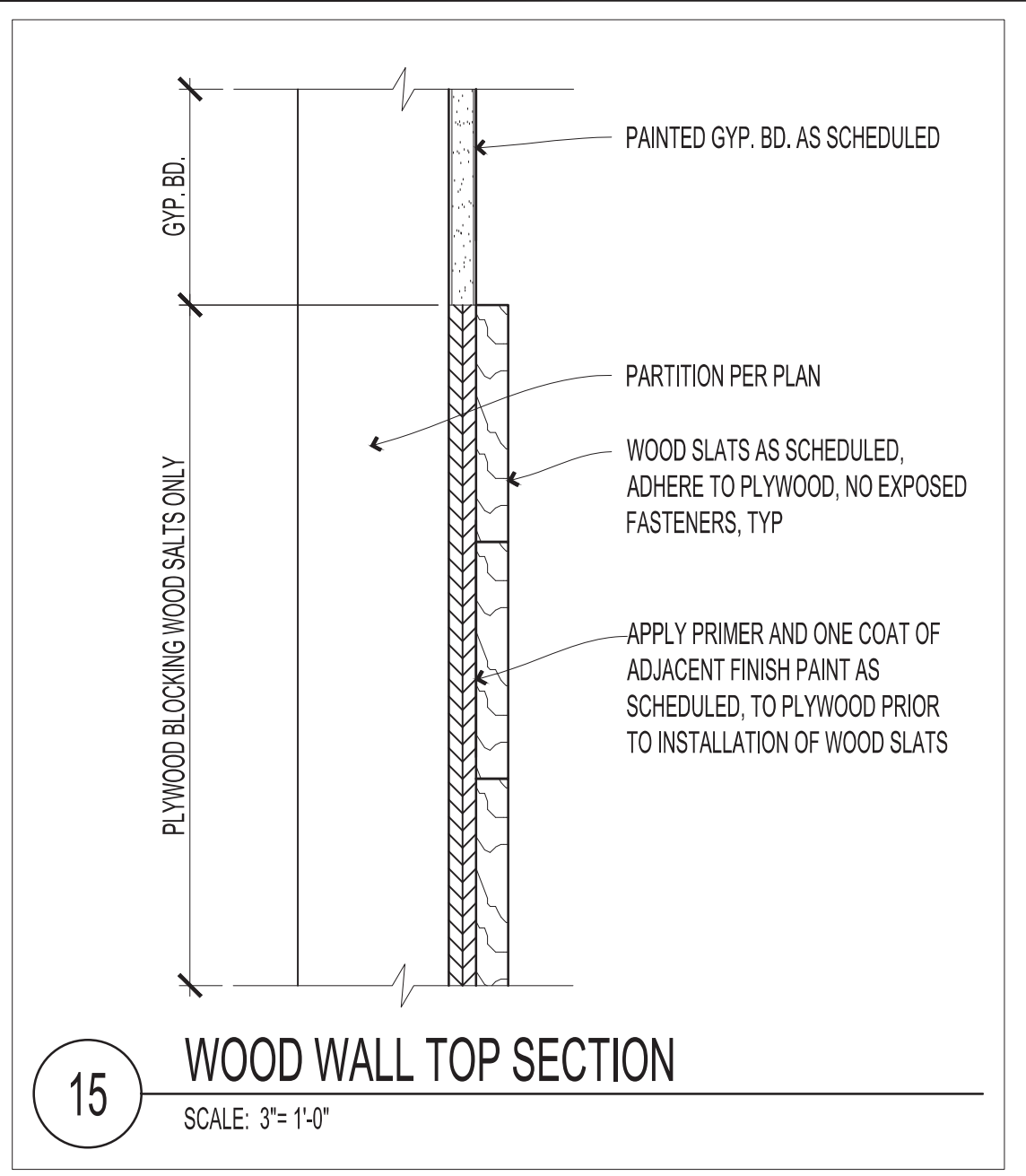
7 TILE BASE WITH WALL TILE AT CONCRETE FLOOR  
SCALE: 6" = 1'-0"



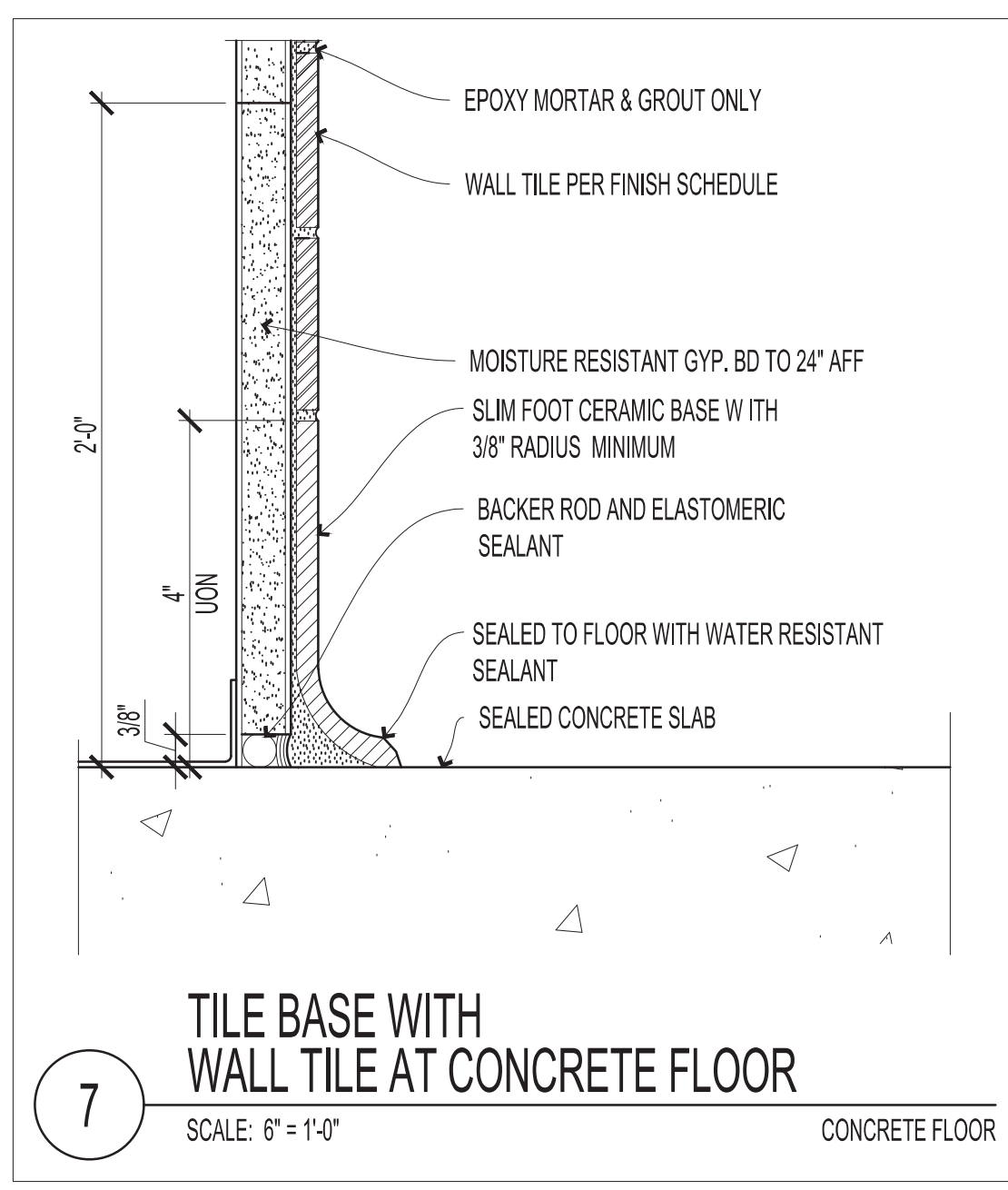
8 RUBBER BASE WITH FRP AT CONC FLOOR  
SCALE: 6" = 1'-0"



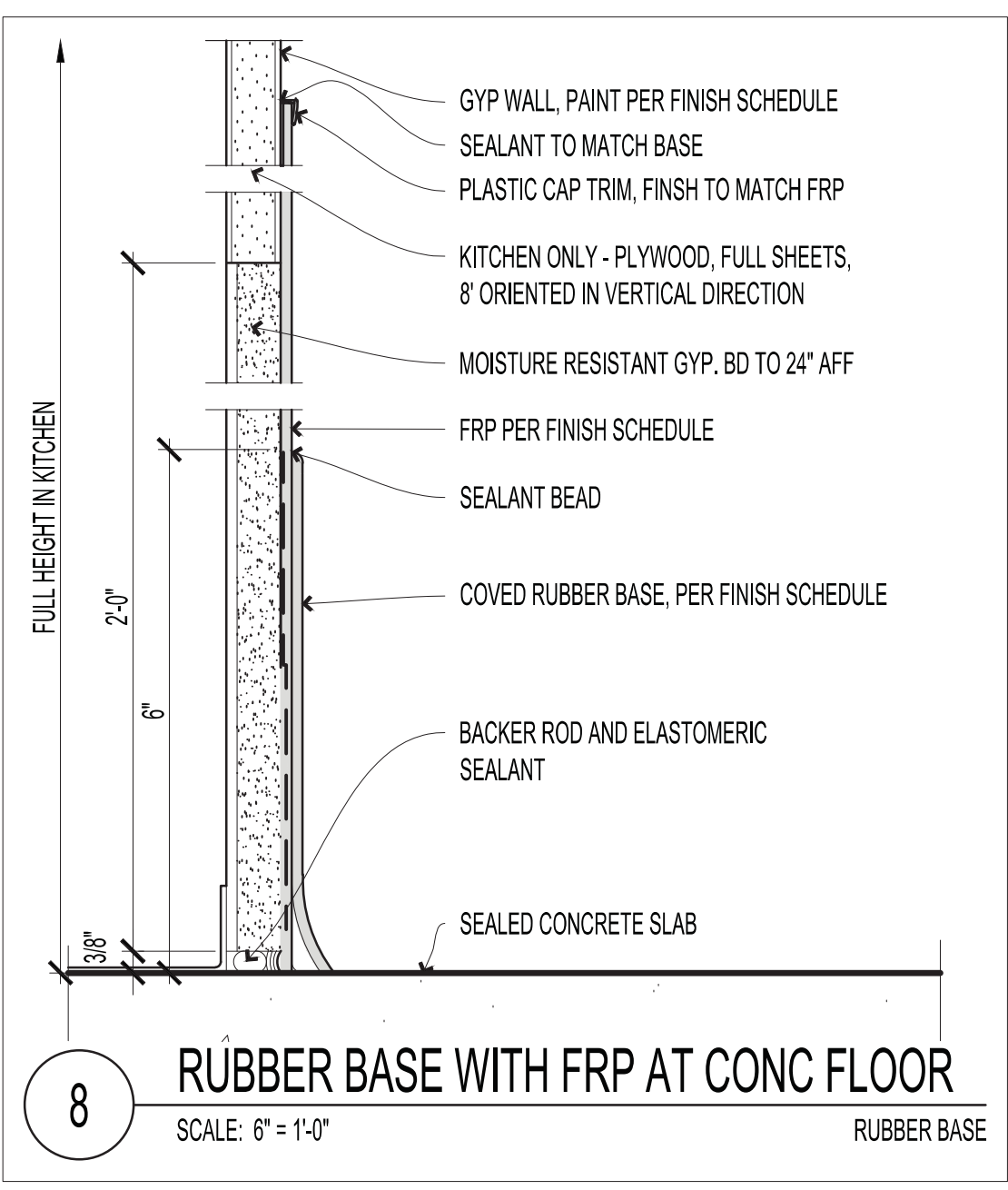
14 RUBBER BASE ON CEMENT BOARD AT CONCRETE FLOOR  
SCALE: 6" = 1'-0"



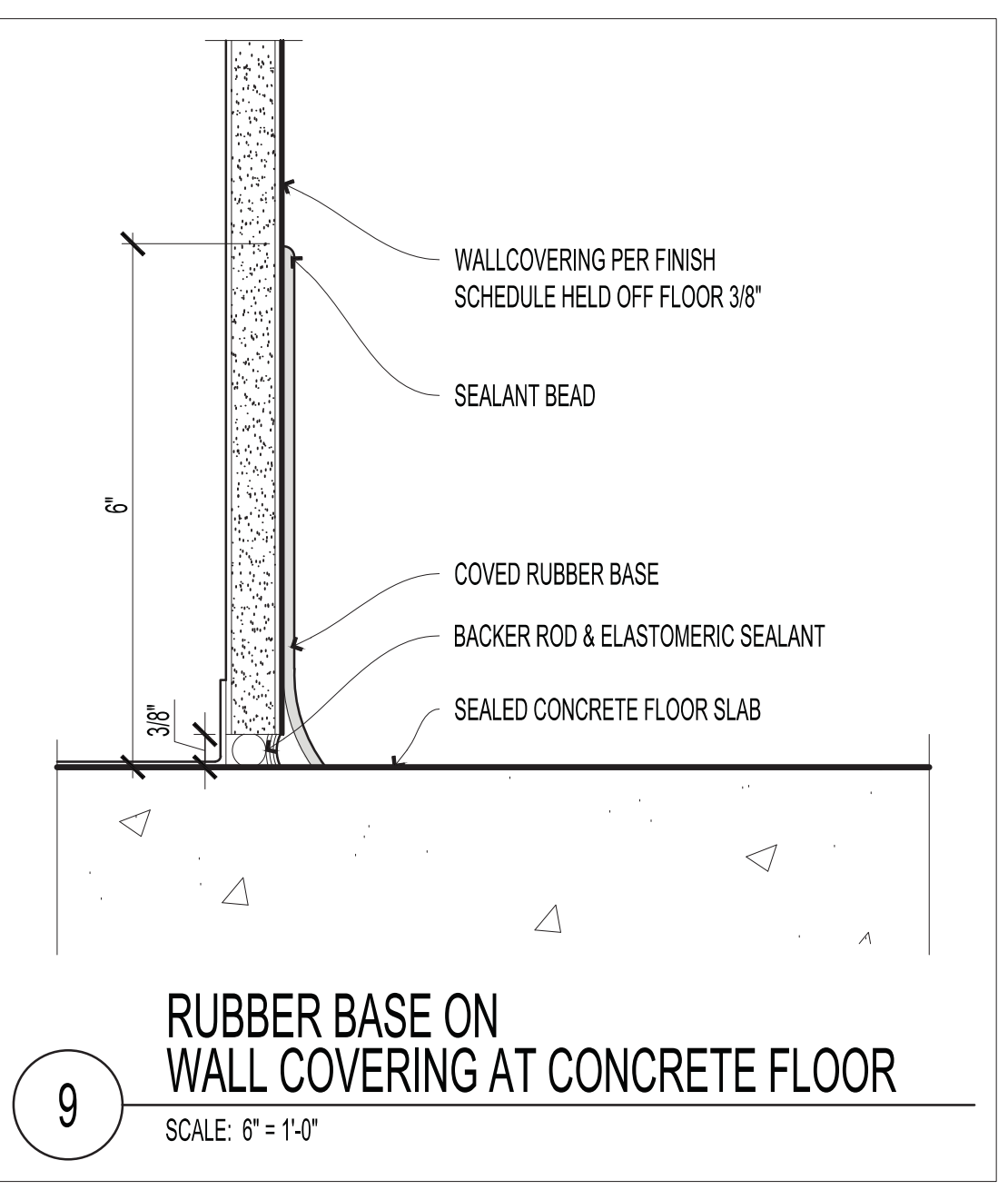
15 WOOD WALL TOP SECTION  
SCALE: 3" = 1'-0"



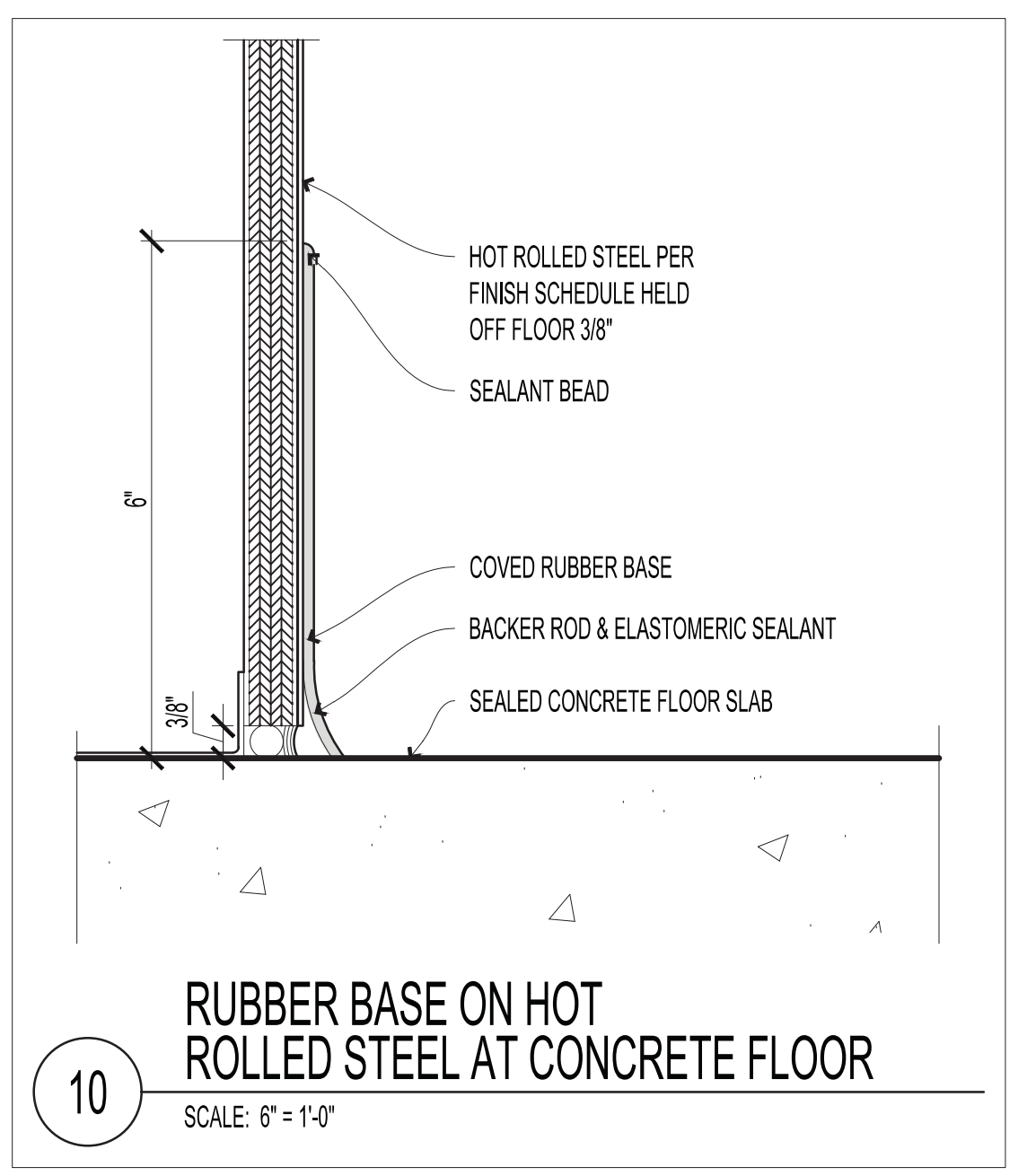
10 RUBBER BASE ON HOT ROLLED STEEL AT CONCRETE FLOOR  
SCALE: 6" = 1'-0"



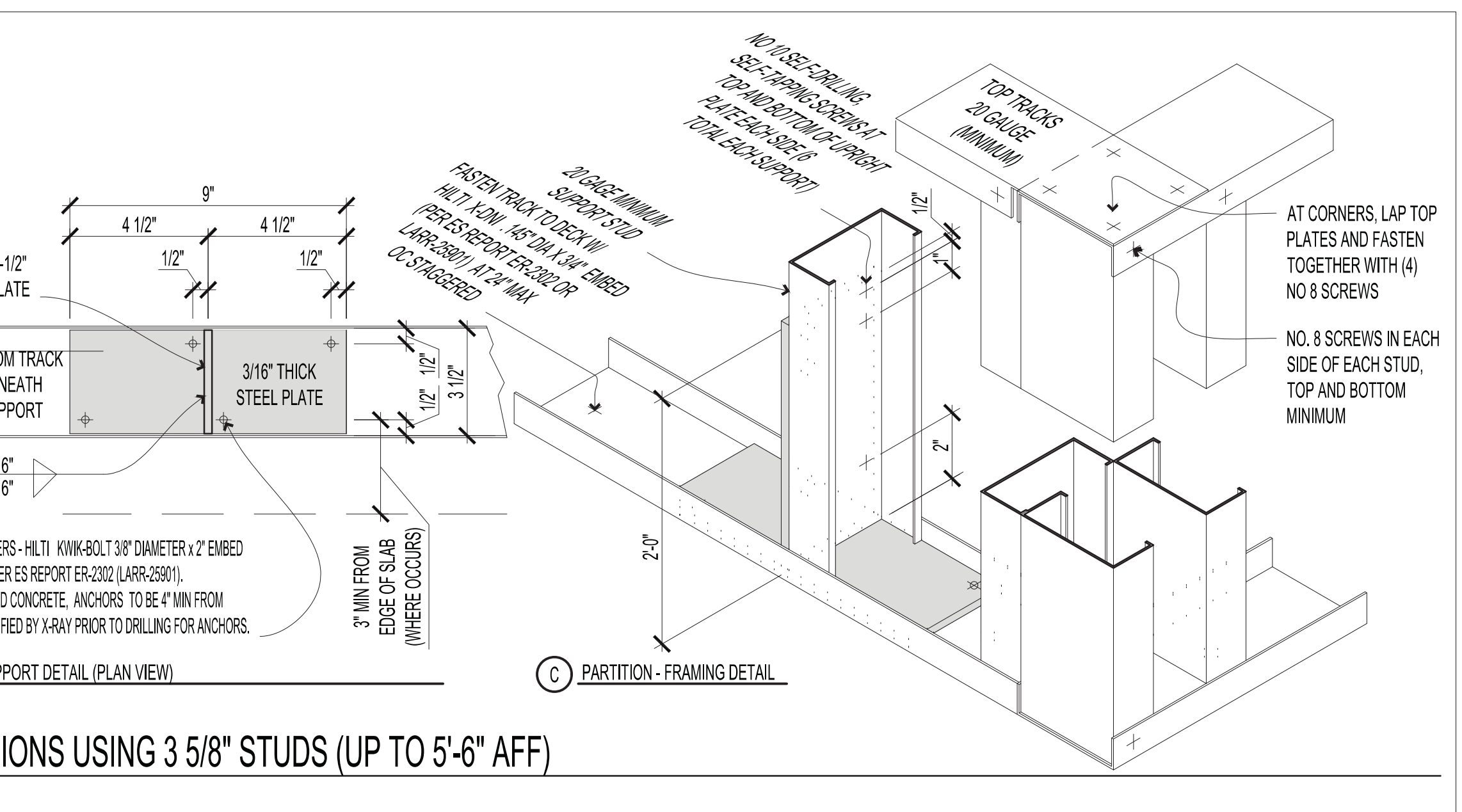
9 RUBBER BASE ON WALL COVERING AT CONCRETE FLOOR  
SCALE: 6" = 1'-0"



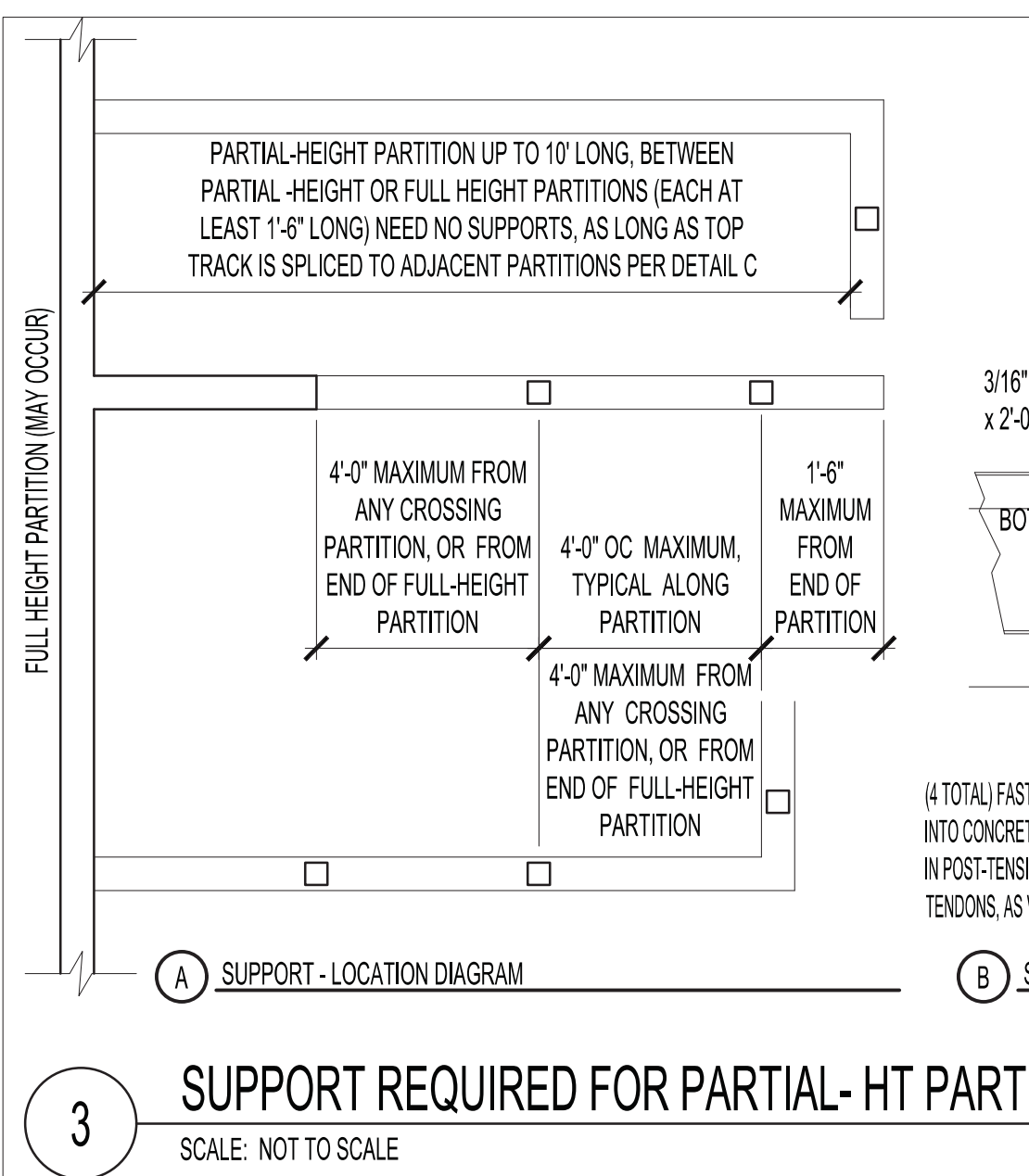
4 WAINSCOT - WALLCOVERING  
SCALE: 1" = 1'-0"



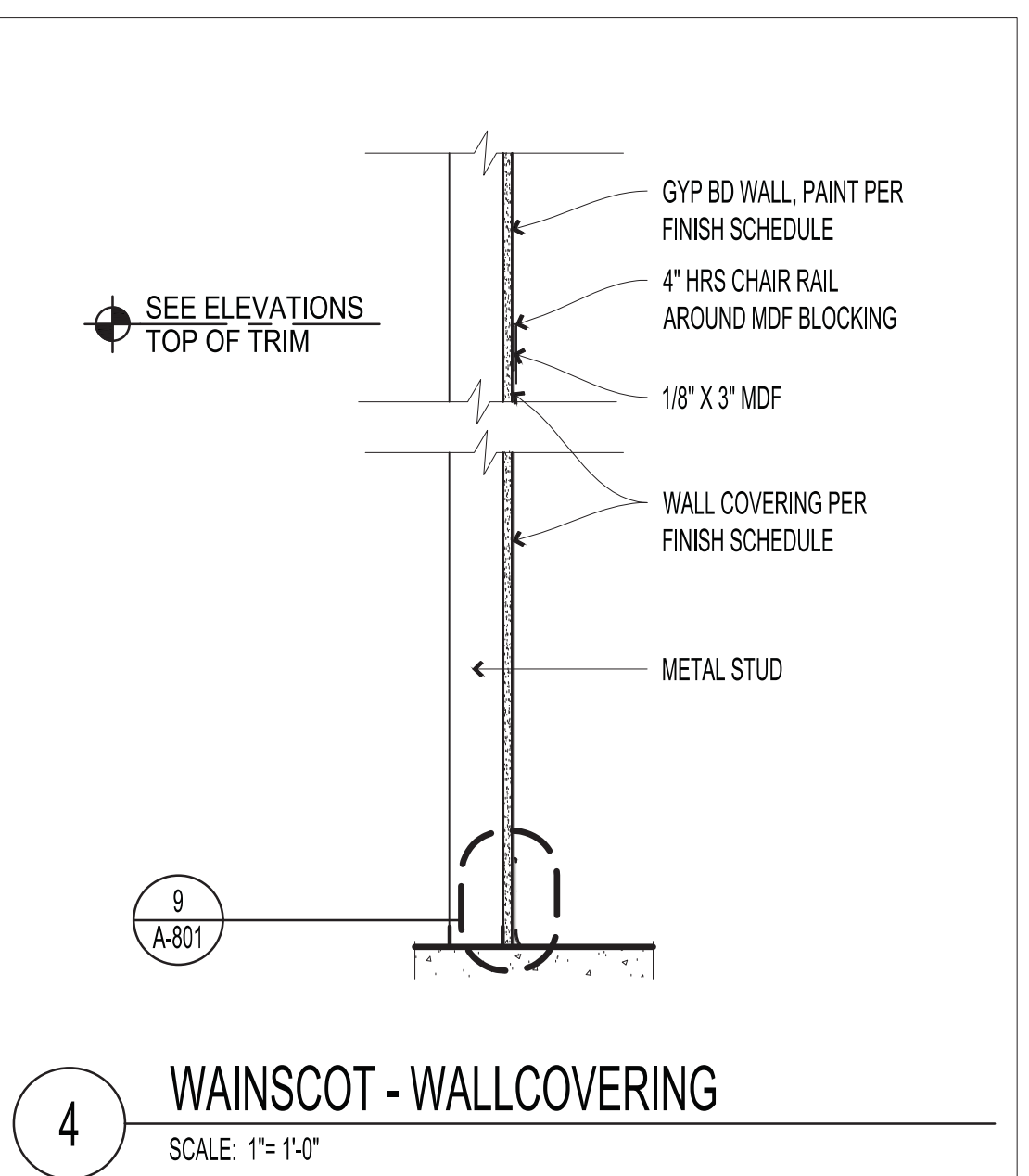
3 SUPPORT REQUIRED FOR PARTIAL-HT PARTITIONS USING 3 5/8" STUDS (UP TO 5'-6" AFF)  
SCALE: NOT TO SCALE



1 PARTITION - FRAMING DETAIL



2 SUPPORT DETAIL (PLAN VIEW)



5 SUPPORT - LOCATION DIAGRAM



6 RUBBER BASE WITH FRP AT CONC FLOOR  
SCALE: 6" = 1'-0"

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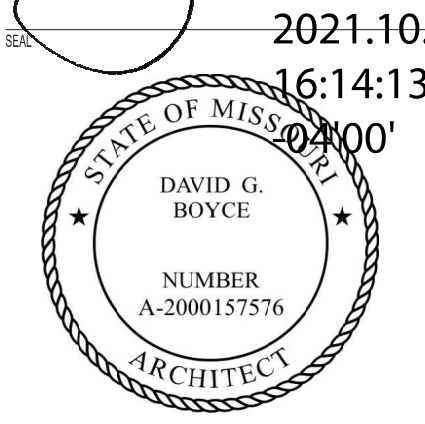
ARCH COA #2015008774  
ENG COA #2005026904

ARCHITECTURE ENGINEERING PERMITTING

220 E. CENTRAL PKWY. STE 4000  
ALTAMONTE SPRINGS, FL 32701  
407.645.5008  
PROJECT NO. 2021.0524

CONSULTANT

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Date: 2021.10.20 16:14:13



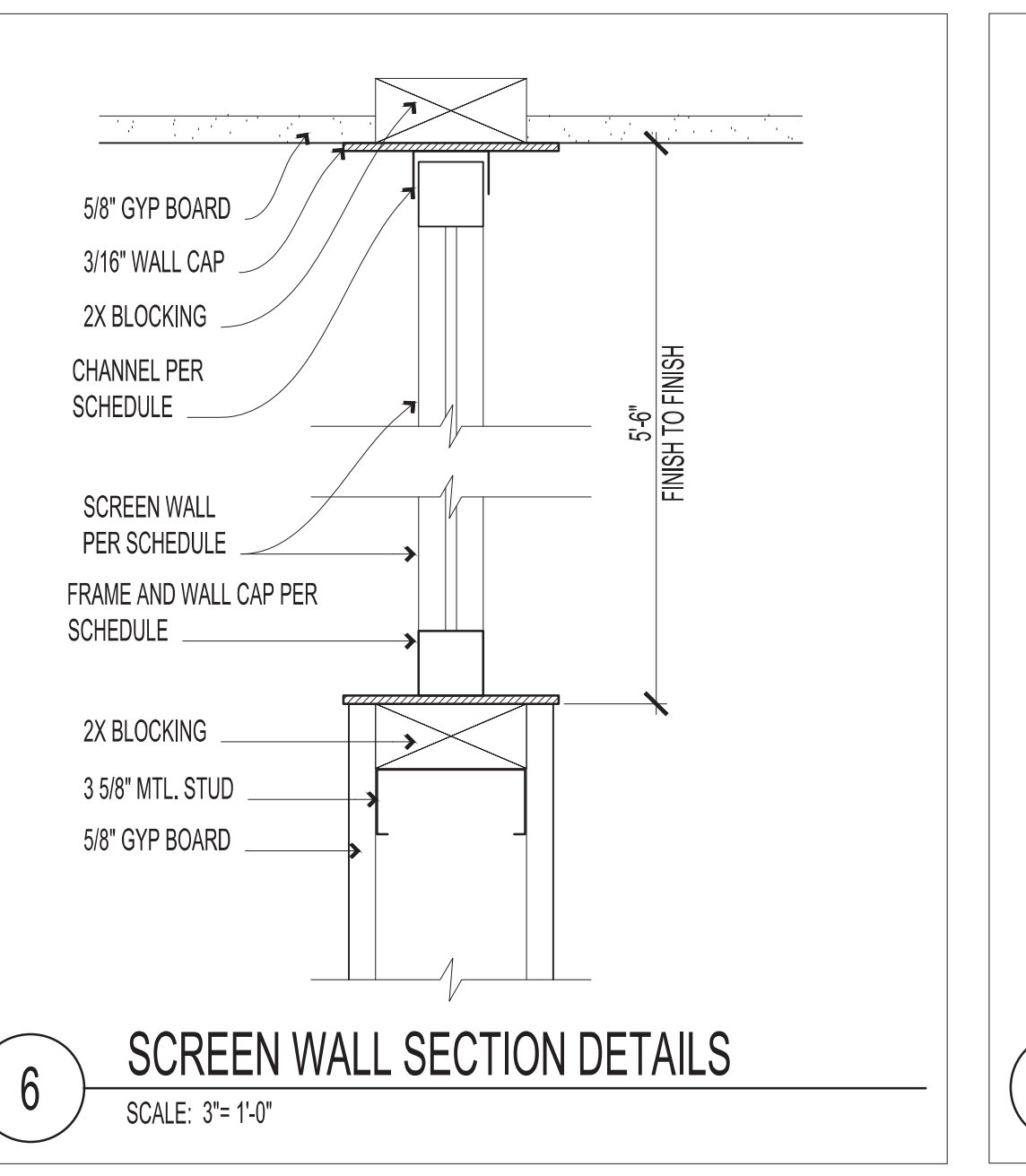
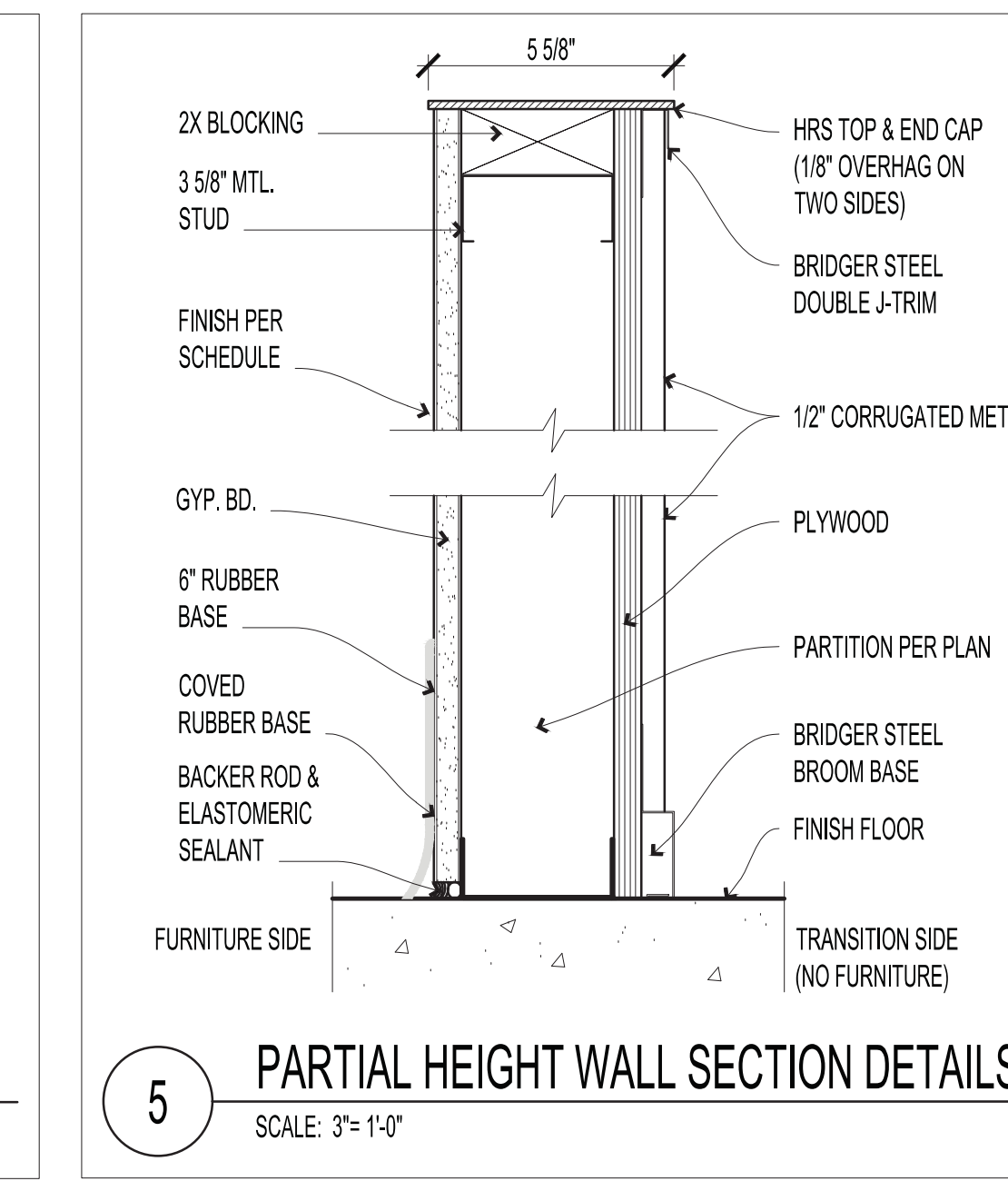
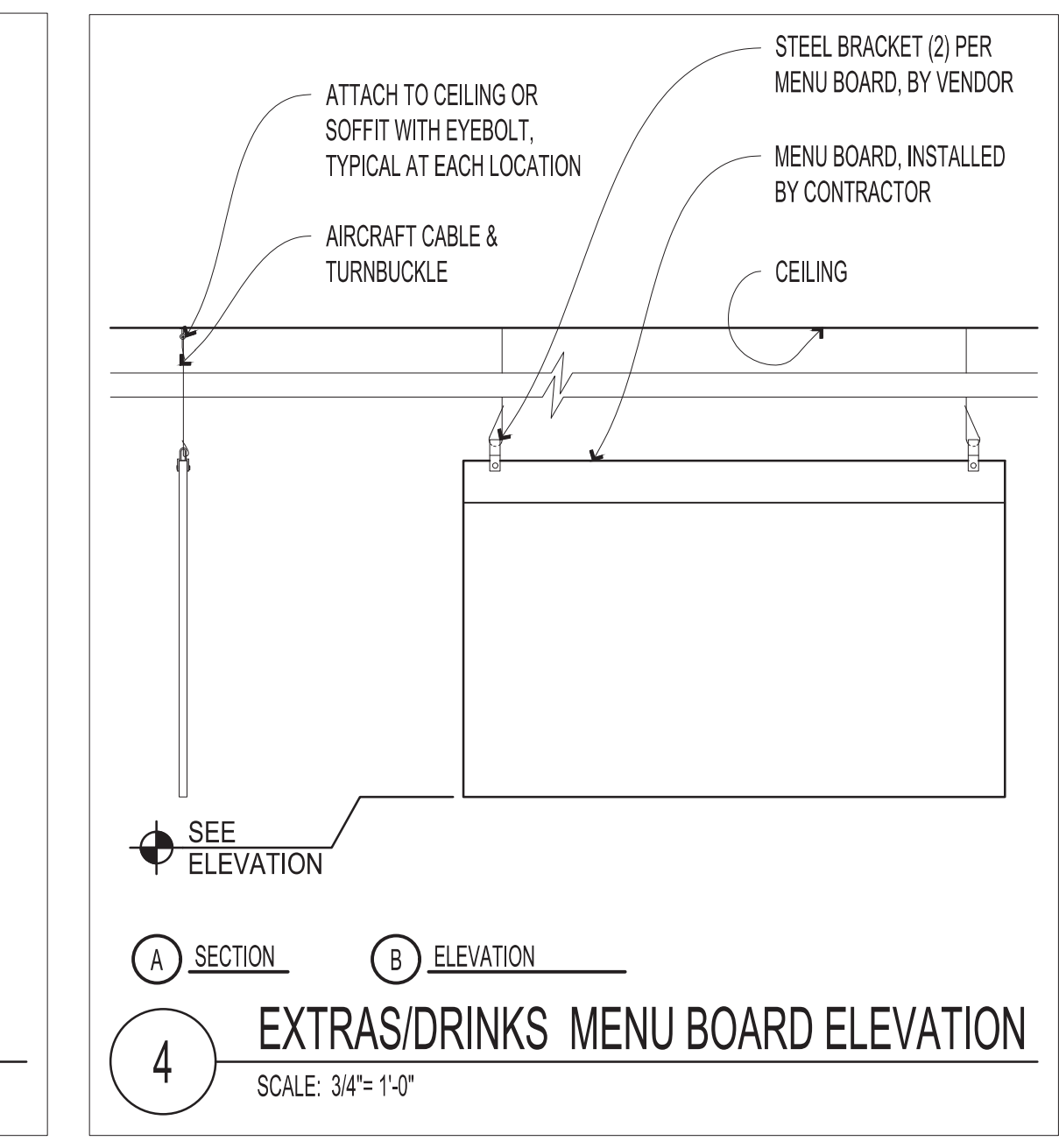
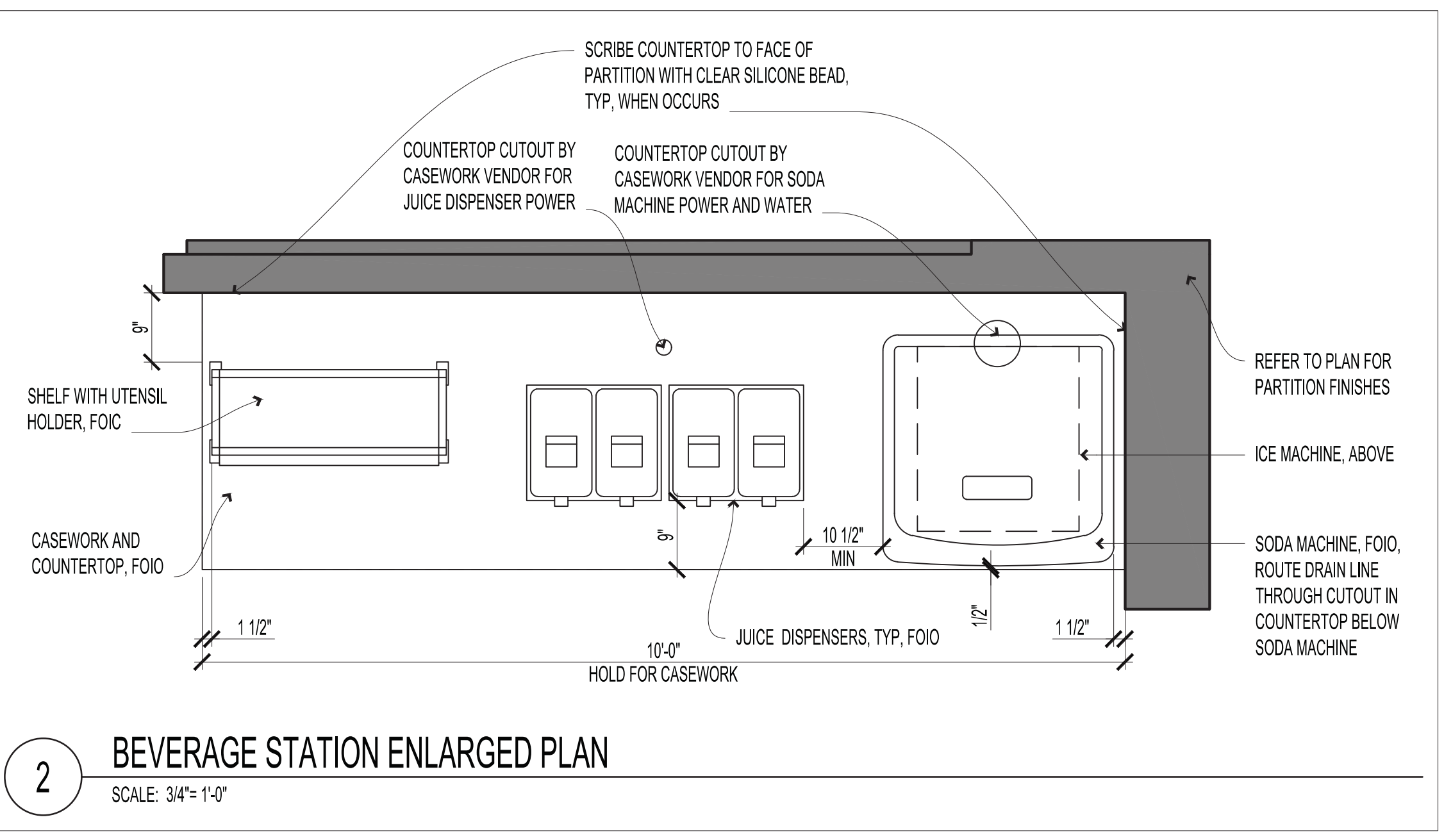
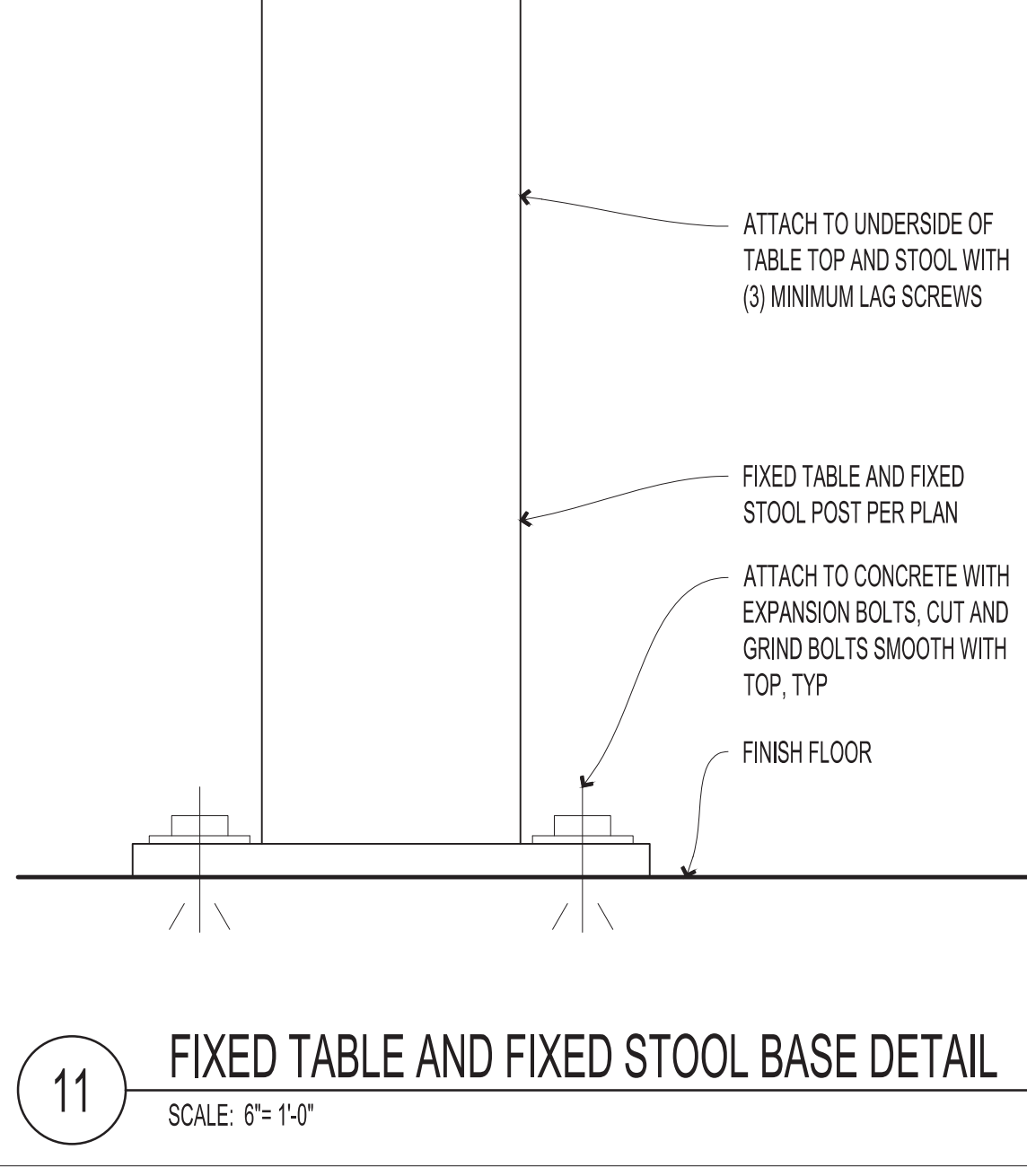
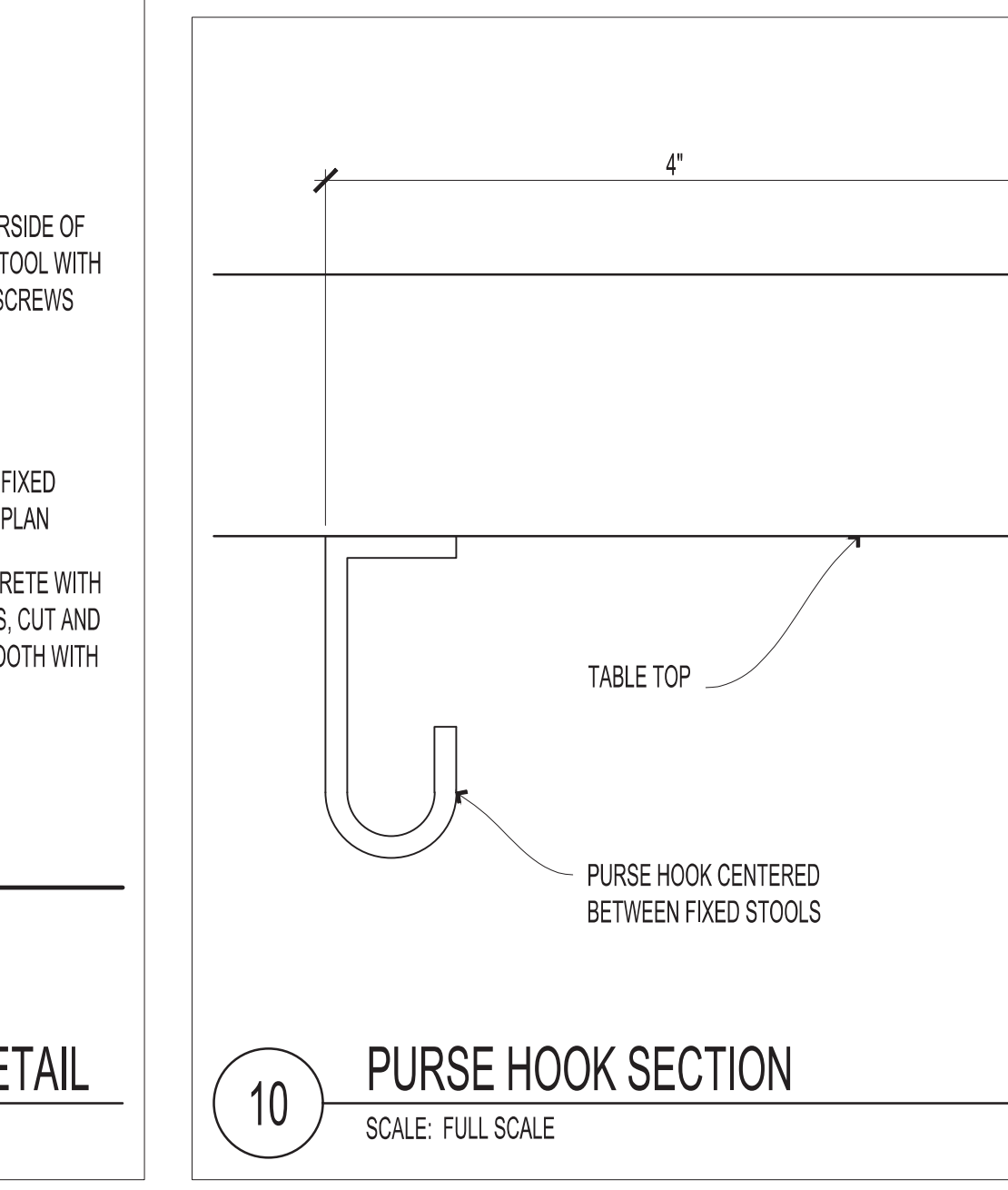
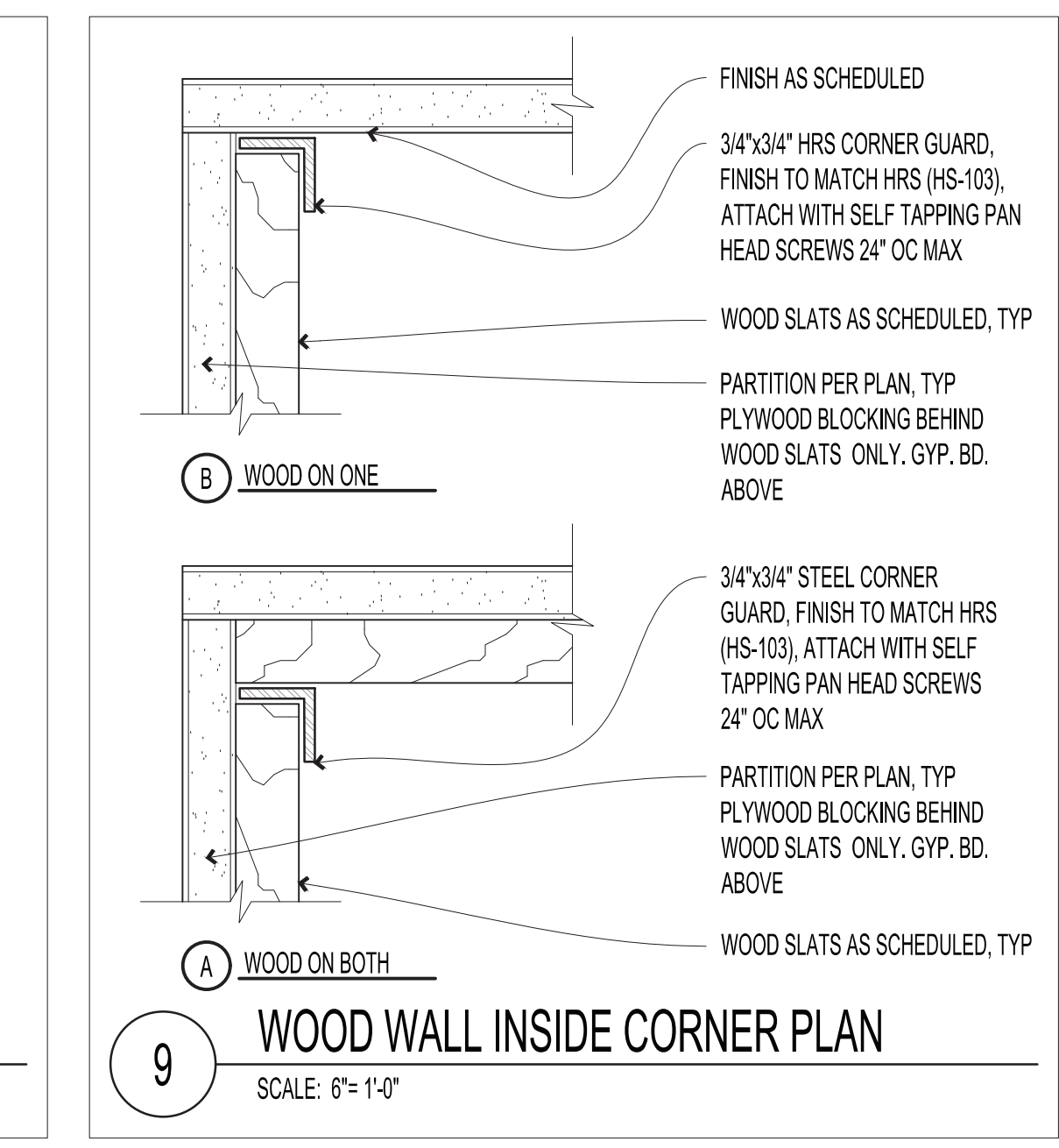
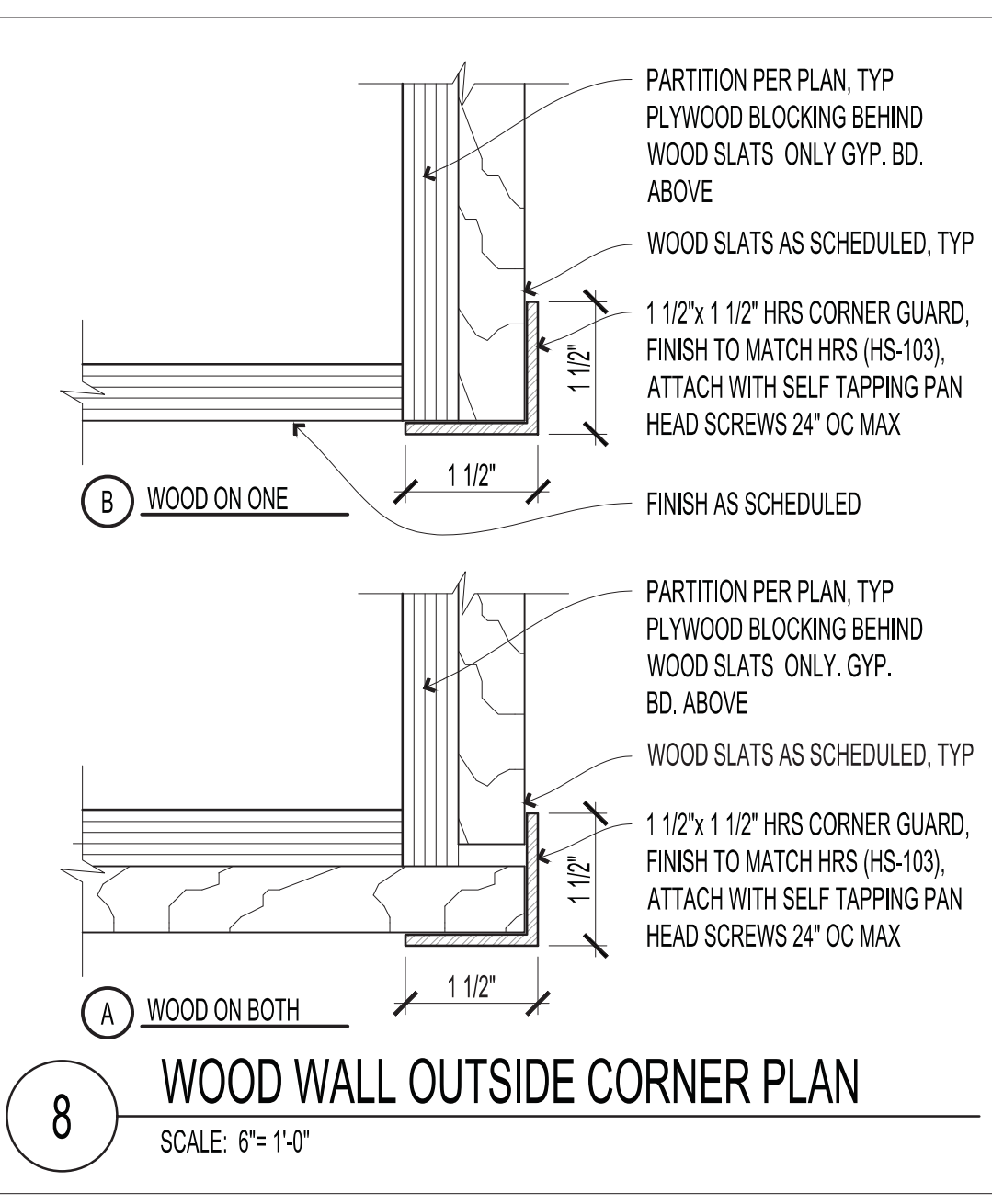
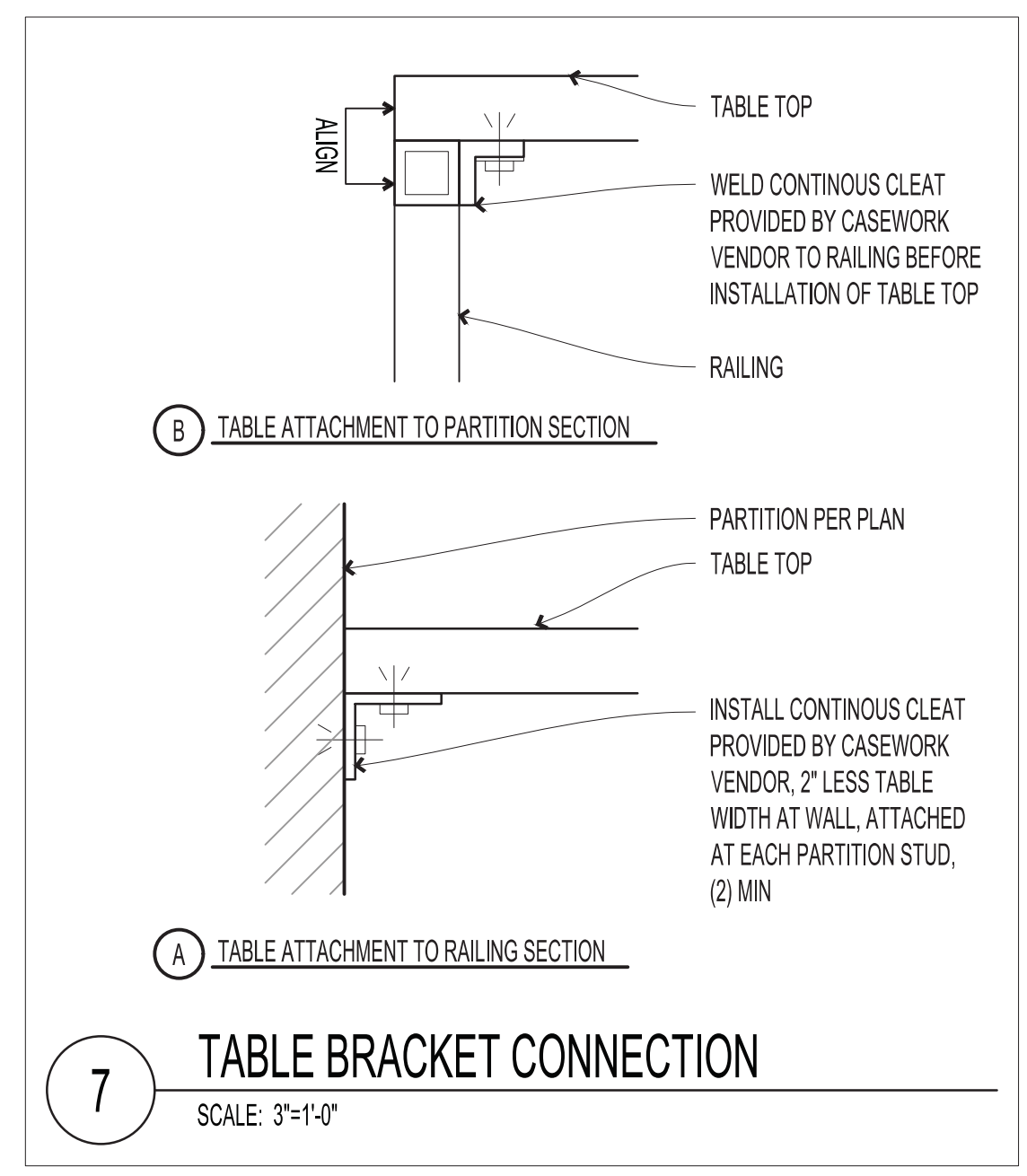
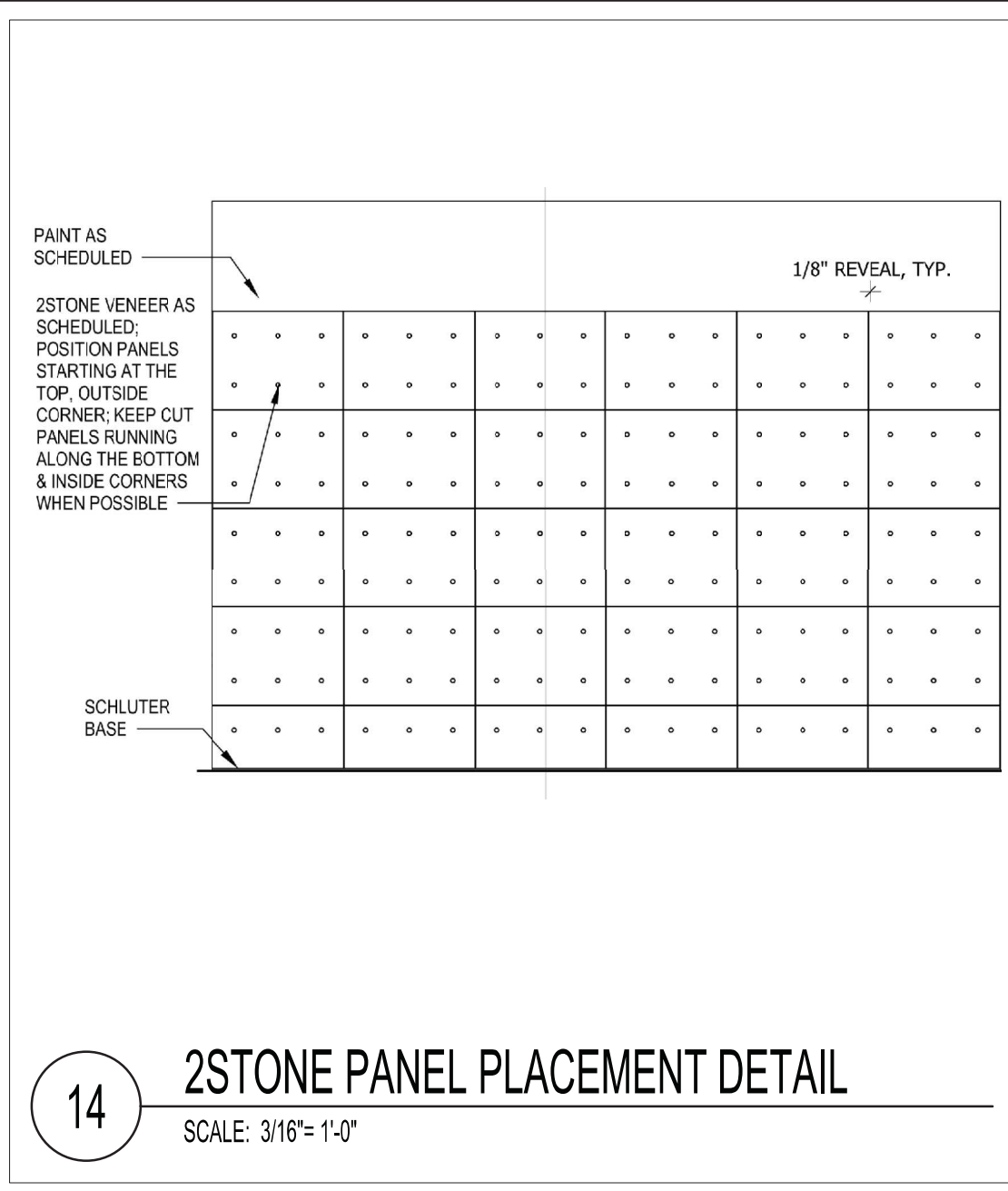
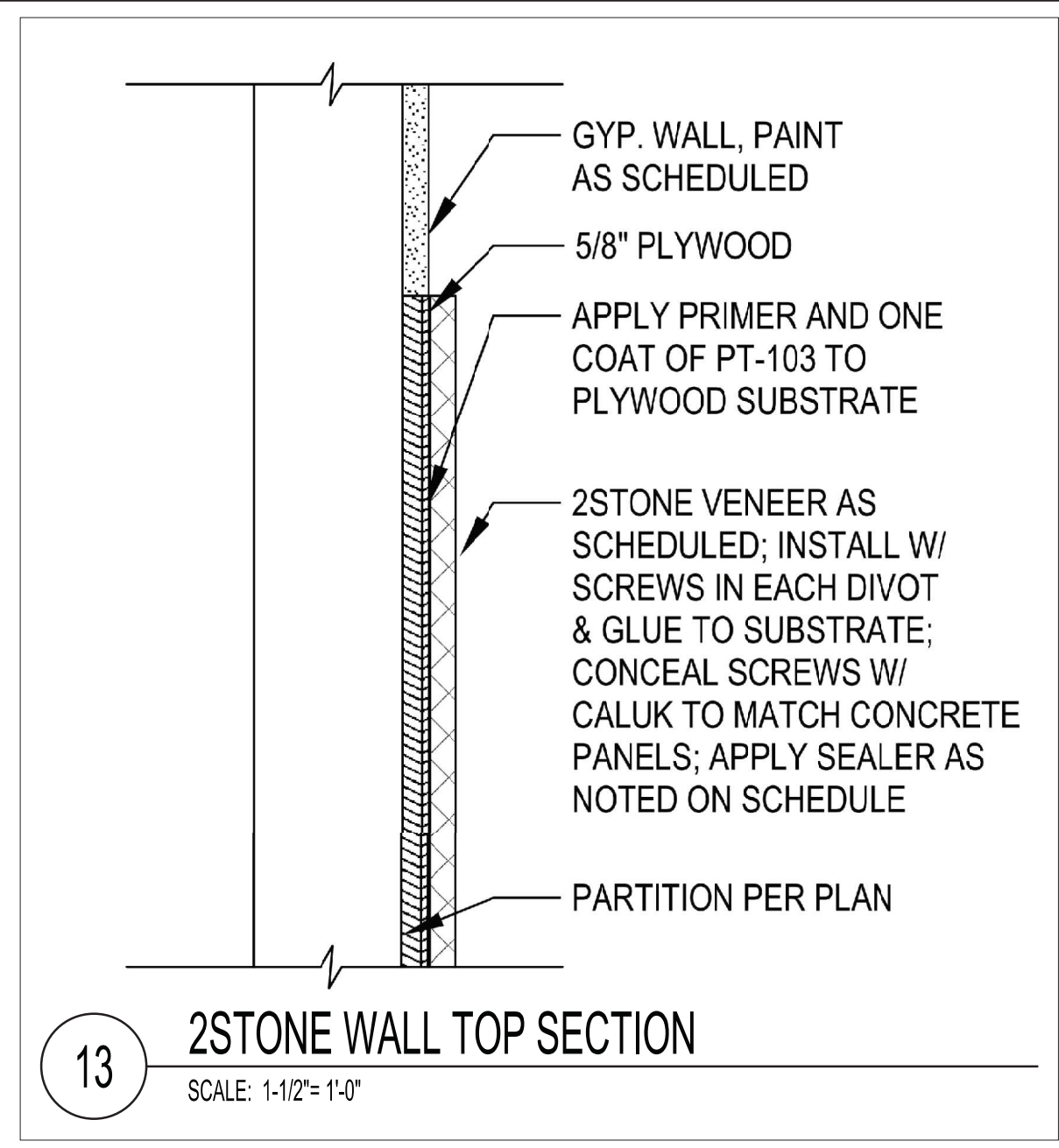
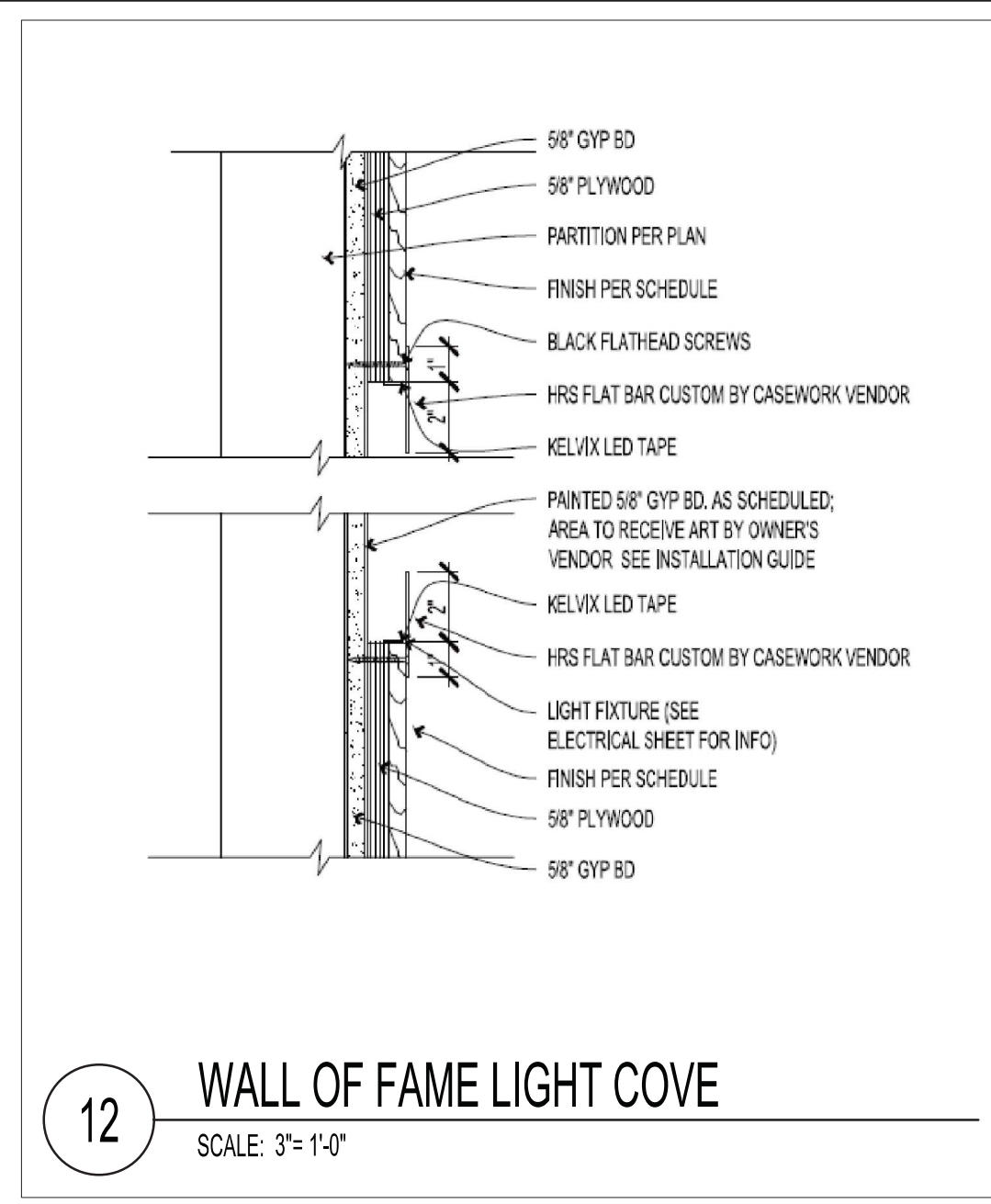
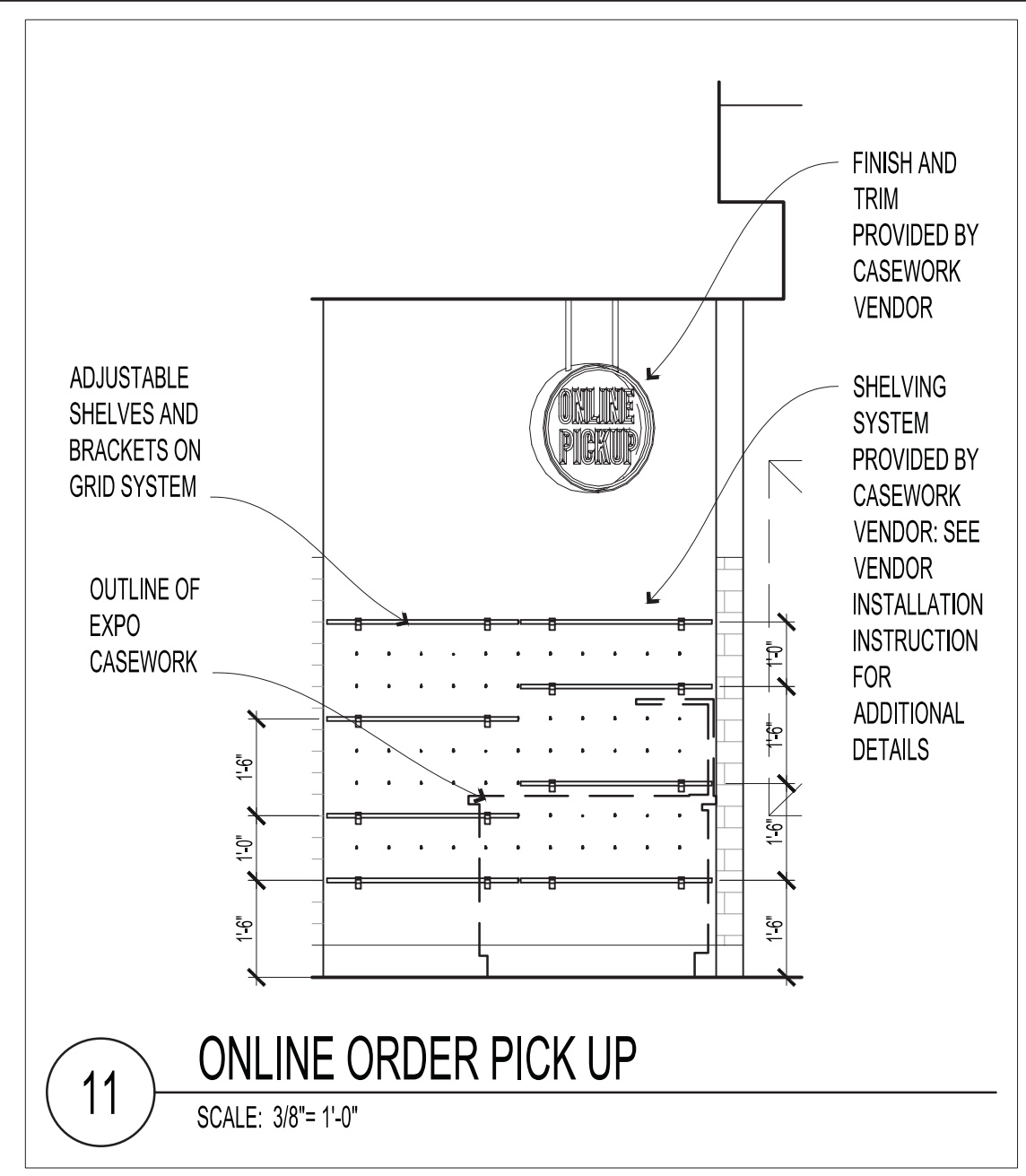
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△ DESIGN UPGRADES	10.18.21

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**A-802**  
INTERIOR DETAILS

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MECHANICAL SHEET INDEX	
M-001	MECHANICAL LEGEND AND GENERAL NOTES
M-111	MECHANICAL FLOOR PLAN
M-131	MECHANICAL ROOF PLAN
M-501	MECHANICAL DETAILS
M-601	MECHANICAL SCHEDULES
SP-911	MECHANICAL SPECIFICATIONS

HVAC ABBREVIATIONS	
A	AMPS
AF	ABOVE FINISHED FLOOR
AHU	AIR HANDLING UNIT
AMB	AMBIENT
BTU	BRITISH THERMAL UNIT
CFM	CUBIC FEET PER MINUTE
DIA	DIAMETER
EAT	ENTERING AIR TEMPERATURE
EDB	ENTERING DRY BULB TEMPERATURE
EF	EXHAUST FAN
ERTU	EXISTING ROOF TOP UNIT FAN
ESP	EXTERNAL STATIC PRESSURE
EWB	ENTERING WET BULB TEMPERATURE
°F	DEGREE FAHRENHEIT
FLA	FULL LOAD AMPS
FRM	FEET PER MINUTE
FT	FOOT OR FEET
HP	HORSEPOWER
KW	KILOWATT
HZ	HERTZ
IN	INCH
LAT	LEAVING AIR TEMPERATURE
LDB	LEAVING DRY BULB TEMPERATURE
LRA	LOCKED ROTOR AMPS
LWB	LEAVING WET BULB TEMPERATURE
MAX	MAXIMUM
MBH	1,000 BTU'S PER HOUR
MCA	MAXIMUM CIRCUIT AMPACITY
MIN	MINIMUM
MOCP	MAXIMUM OVERCURRENT PROTECTION
N T S	NOT TO SCALE
OA	OUTSIDE AIR
PH	PHASE
REL	RELIEF
RLA	RUNNING LOAD AMPS
RPM	REVOLUTIONS PER MINUTE
RTU	ROOF TOP UNIT
SA	SUPPLY AIR
SD	SPLITTER DAMPER
SHC	SENSIBLE HEAT CAPACITY
SQ. FT.	SQUARE FEET
T	THERMOSTAT

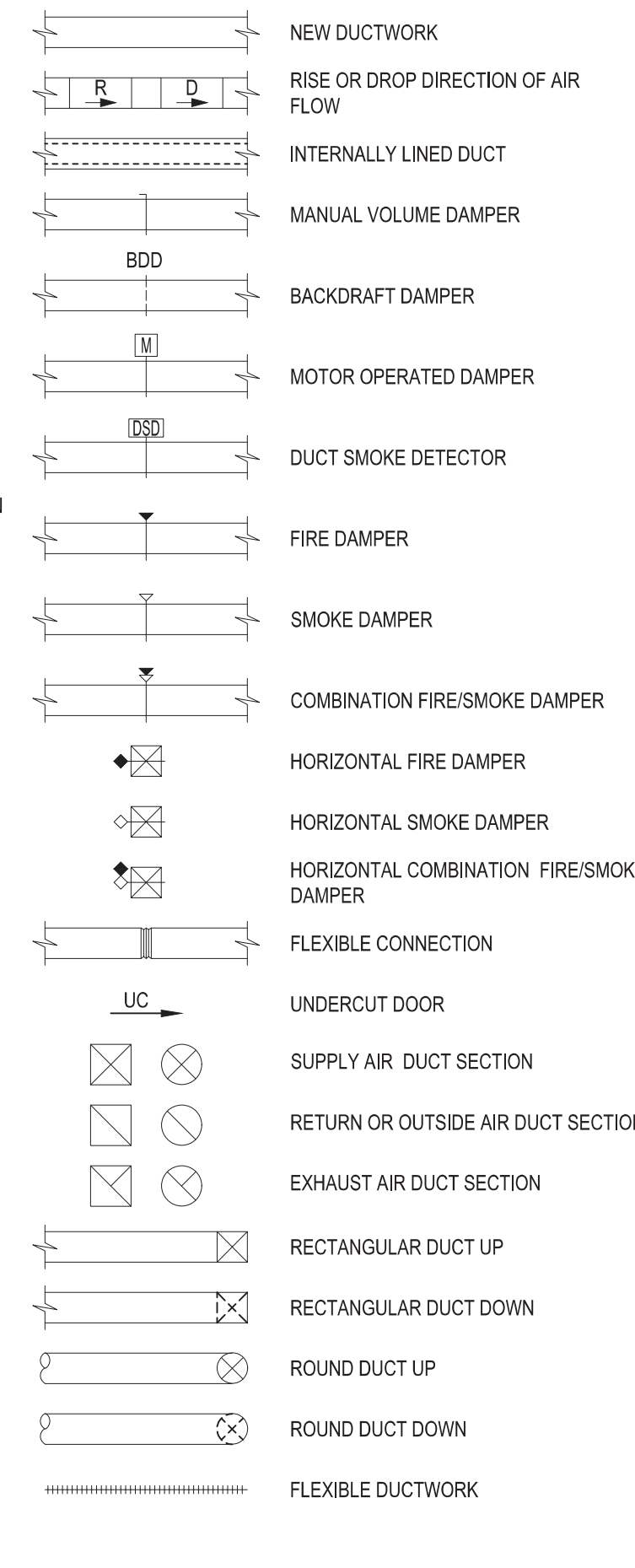
**FIELD VERIFY ALL CONDITIONS**

NOTE! AS NOTED IN THE SPECIFICATIONS, ALL WIRING LAYOUTS, PIPING LAYOUTS AND DUCT LAYOUTS ARE SCHEMATIC. EXACT LOCATIONS SHALL BE DETERMINED BY THE CONSTRUCTION AND STRUCTURE OF THE BUILDING AND SHALL BE VERIFIED AND COORDINATED IN THE FIELD. EACH TRADE CONTRACTOR SHALL VERIFY WITH THE GENERAL CONTRACTOR THAT HE HAS THOROUGHLY REVIEWED AND COORDINATED ALL LOCATIONS AND ROUTINGS WITH ALL OTHER TRADES PRIOR TO FABRICATION OF CONDUITS, DUCTS, OR PIPING, AND START OF INSTALLATION OF SAME (INCLUDING SPRINKLER PIPING WHEN PRESENT ON JOB). ANY INSTALLATION OR CONSTRUCTION CONFLICTS WHICH OCCUR IN THE FIELD SHALL BE RESOLVED BY THE TRADE CONTRACTOR TO THE SATISFACTION OF THE OWNER AND ARCHITECT AND AT NO EXPENSE TO THE OWNER, ARCHITECT AND/OR GENERAL CONTRACTOR.

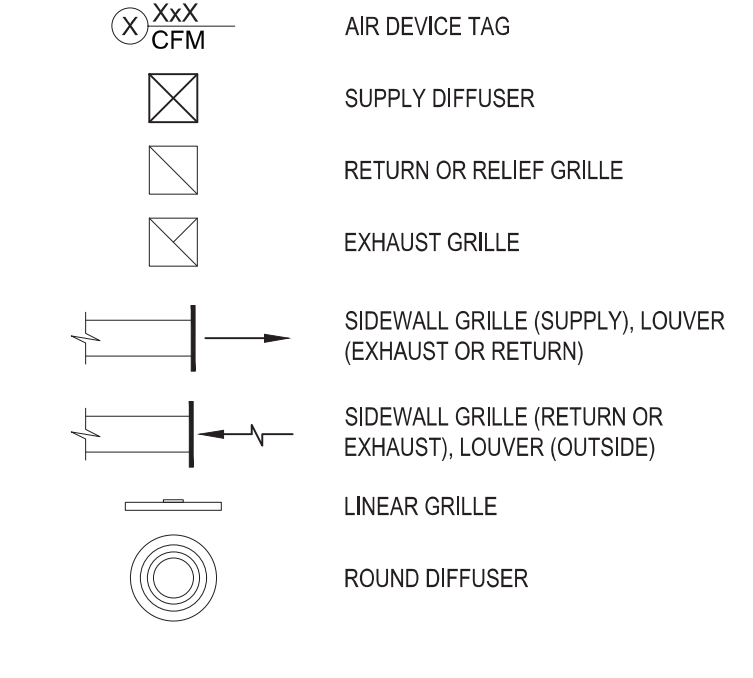
THE CONTRACTOR SHALL CONTACT THE ARCHITECT, ENGINEER OR OWNER PRIOR TO BIDDING FOR INTERPRETATIONS AND CLARIFICATIONS OF THE DESIGN AND INCLUDE IN HIS BID ALL COSTS TO MEET THE DESIGN INTENT. CLARIFICATIONS MADE BY THE ARCHITECT, ENGINEER OR OWNER AFTER BIDDING WILL BE FINAL AND SHALL BE IMPLEMENTED AT CONTRACTORS COST.

BIDDING CONTRACTORS SHALL HAVE A WORKING KNOWLEDGE OF LOCAL CODES AND ORDINANCES AND SHALL INCLUDE IN THEIR BIDS THE COSTS FOR ALL WORK INSTALLED IN STRICT ACCORDANCE WITH GOVERNING CODES, THE PLANS AND SPECIFICATIONS NOT WITHSTANDING. THE CONTRACTOR SHALL ALERT ARCHITECT, ENGINEER OR OWNER OF ANY APPARENT DISCREPANCIES BETWEEN GOVERNING CODES AND DESIGN INTENT.

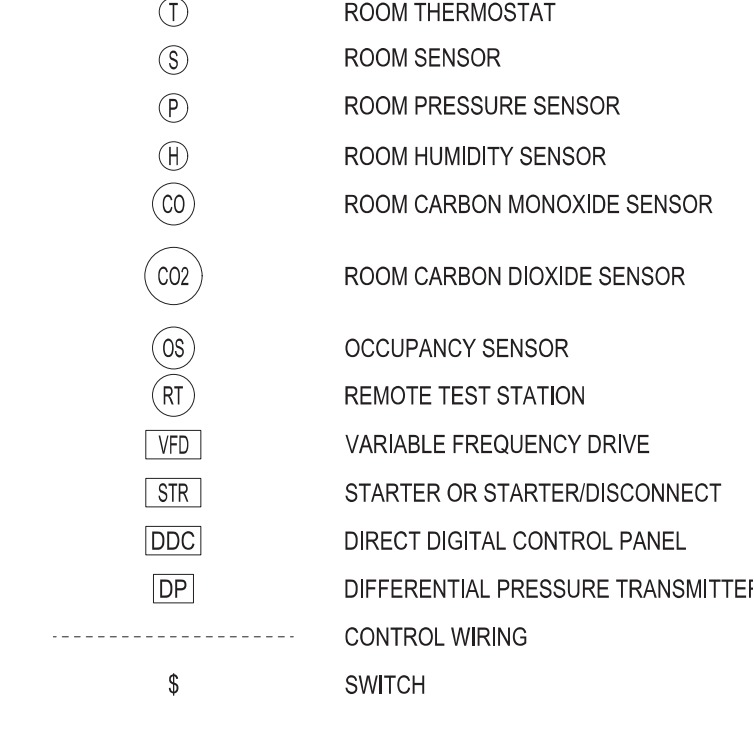
**DUCTWORK SYMBOLS**



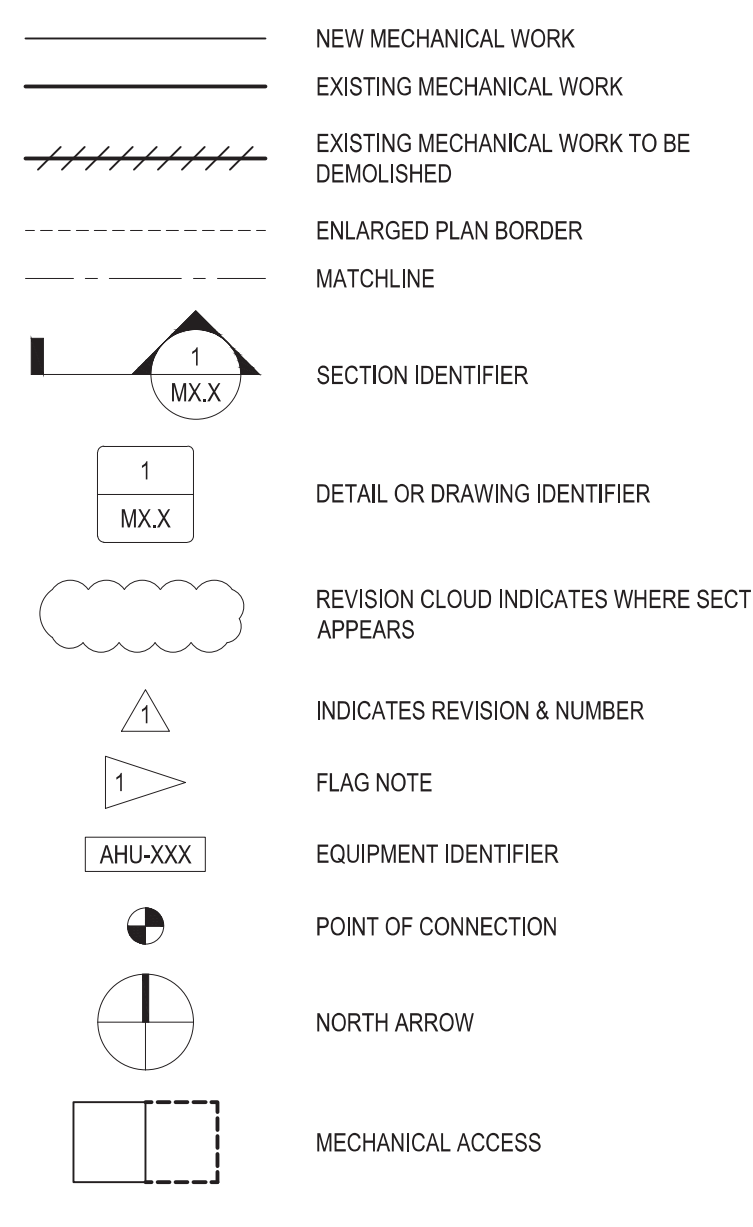
**DIFFUSER, REGISTER, AND GRILLE SYMBOLS**



**CONTROLS**



**REFERENCE SYMBOLS**



**HOOD & GREASE EXHAUST DUCT NOTES**

- EXHAUST HOODS SHALL BE CONSTRUCTED OF 16 GAUGE BLACK STEEL OR 18 GA. STAINLESS STEEL WITH ALL EXTERNAL SEAMS AND JOINTS CONTINUOUSLY WELDED 100% LIQUID TIGHT. EXHAUST HOODS SHALL MEET OR EXCEED THE REQUIREMENTS OF NFPA 96, ALL LOCAL CODES AND SHALL BEAR THE NSF SEAL OF APPROVAL.
- ALL LIGHTS USED IN THE HOODS SHALL BE U.L. LISTED FOR CANOPY HOOD USE AND OF THE INCANDESCENT TYPE AND SHALL BE WIRED TO COME ON THRU A SWITCH LOCATED ON THE HOOD FACE.
- THE EXHAUST HOODS SHALL HAVE ALL STAINLESS STEEL BAFFLE FILTERS AND SHALL HAVE A FIRE ACTUATED DAMPER IN THE MAKE-UP AIR COLLAR.
- THE EXHAUST HOODS SHALL HAVE PREPIPED AUTOMATIC U.L. ANSUL FIRE EXTINGUISHING SYSTEMS FOR PROTECTION OF THE EXHAUST PLENUM & DUCT AND COOKING SURFACES. FIRE CONTROL CABINETS SHALL ALSO BE PROVIDED AS SHOWN AND SHALL HAVE MICRO SWITCHES FURNISHED AS REQUIRED FOR EQUIPMENT SHUT OFF. THERE SHALL BE A MANUAL PULL STATION NEAR THE EXIT DOOR AND MINIMUM OF 10'-0" FROM THE HOOD. (MUST BE FLUSH MOUNTED, CONDUIT RUN IN THE WALL).
- THE SUPPLY FAN SWITCHES, 40 VA TRANSFORMERS, SUPPLY & EXHAUST FAN STARTERS, THERMAL OVERLOADS AND MECHANICAL GAS VALVE SHALL BE FURNISHED BY THE HOOD MANUFACTURER, AND SUPPLY FAN SWITCHES SHALL BE MOUNTED ON THE HOOD FACES. THE 40 VA TRANSFORMERS AND FAN STARTERS SHALL BE MOUNTED IN THE FIRE CONTROL CABINETS AND THE MECHANICAL GAS VALVE SHALL BE INSTALLED AS SHOWN ON THE PLUMBING DRAWINGS.
- ALL EXHAUST COLLARS AND EXHAUST DUCTWORK ARE SIZED TO MAINTAIN BETWEEN 500 AND 2000 FPM EXHAUST AIR VELOCITY. ALL GREASE EXHAUST DUCTWORK SHALL BE CONSTRUCTED AND INSTALLED IN ACCORDANCE WITH NFPA-96. GREASE EXHAUST DUCTWORK SHALL HAVE ALL SEAMS, JOINTS AND PENETRATIONS CONTINUOUSLY WELDED LIQUID TIGHT.
- ALL HORIZONTAL RUNS OF GREASE EXHAUST DUCT SHALL SLOPE BACK TOWARD THE HOOD AT A SLOPE OF 1/4" PER FOOT. PROVIDE A RESIDUE TRAP AT THE BASE OF EACH VERTICAL RISER.
- PROVIDE U.L. LISTED CLEANOUTS IN GREASE EXHAUST DUCTWORK AT A MINIMUM OF 10'-0" INTERVALS, AT EACH CHANGE OF DIRECTION AND AT EACH RESIDUE TRAP.
- THE DISCHARGE OF THE GREASE EXHAUST FANS SHALL BE A MINIMUM OF 10'-0" FROM ANY OUTSIDE AIR INTAKE.
- ALL GREASE EXHAUST DUCTWORK SHALL HAVE STANDARD OR RADIUS ELBOWS.
- THIS CONTRACTOR SHALL BE RESPONSIBLE FOR ALL WARRANTIES.
- THE FOLLOWING EQUIPMENT SHALL BE PROVIDED BY CAPTIVEAIRE SYSTEMS, FURNISHED AND INSTALLED BY THIS CONTRACTOR:
  - STAINLESS STEEL HOODS AS SPECIFIED ABOVE WITH FIRE PROTECTION SYSTEMS, CONTROLS, STARTERS, FIRE CONTROL CABINETS CLOSURE STRIP AND MECH. GAS VALVE.
- THE FOLLOWING SHALL BE SUPPLIED BY CAPTIVEAIRE AND INSTALLED BY GC:
  - ALL HOODS, HOOD SUPPLY AND EXHAUST FANS WITH ROOF CURBS. PROVIDE ALL HOOD EXHAUST FANS WITH GREASE GUARDS) SUPPLIED BY CAPTIVEAIRE.
  - ALL DUCTWORK BETWEEN HOODS AND FANS - INSTALLED BY GC.
  - WIRING BETWEEN HOODS, FANS AND FIRE SYSTEM - INSTALLED BY GC.
- KITCHEN HOOD TEST AND BALANCE REPORT SHALL BE SUBMITTED TO BUILDING DEPARTMENT PRIOR TO FINAL INSPECTION.
- UPON ACTIVATION OF ANY FIRE EXTINGUISHING SYSTEM FOR A COOKING OPERATION, ALL SOURCES OF FUEL AND ELECTRIC POWER THAT PRODUCE HEAT TO ALL EQUIPMENT REQUIRING PROTECTION BY THAT SYSTEM SHALL AUTOMATICALLY SHUT OFF. ACTIVATION OF THE AUTOMATIC FIRE EXTINGUISHING SYSTEM MUST IMMEDIATELY SHUT OFF GAS AND ELECTRIC SUPPLY TO ALL APPLIANCES UNDER THE PROTECTED HOOD. THE PLUMBING CONTRACTOR SHALL PROVIDE A MASTER SOLENOID VALVE IN GAS LINE TO DISCONNECT ALL GAS APPLIANCES. MANUAL GAS AND ELECTRIC RESETS ARE REQUIRED.
- ALL REMOTE MANUAL OPERATING DEVICES SHALL BE IDENTIFIED AS THE "HAZARD PROTECTED" PROVIDE PLAQUE AND SIGN AS REQUIRED BY LOCAL JURISDICTION.
- ONE PLENUM NOZZLE SHALL BE PROVIDE FOR EVERY 10 FEET OF HOOD. REFER TO HOOD DRAWINGS FOR EXACT LOCATION.
- THE HOOD INSTALLING CONTRACTOR SHALL PROVIDE THE LATEST SYSTEM MANUAL AS PROVIDED BY THE MANUFACTURER TO VERIFY THE SYSTEM INSTALLATION.
- NONCOMBUSTIBLE BACK SPLASH TO EXTEND AT LEAST 18" IN ALL DIRECTIONS FROM THE HOOD.
- EXTERNAL HOOD JOINTS, SEAMS AND PENETRATIONS FOR TYPE 1 HOODS SHALL BE MADE WITH A CONTINUOUS EXTERNAL LIQUID-TIGHT WILD OR BRAZE TO THE LOWEST OUTERMOST PERIMETER OF THE HOOD.
- PRIOR TO THE USE OF CONCEALMENT OF ANY PORTION OF A GREASE DUCT SYSTEM, A LEAKAGE TEST SHALL BE PERFORMED. DUCTS SHALL BE CONSIDERED TO BY CONCEALED WHERE INSTALLED IN SHAFTS OR COVERED BY COATING OR WRAPS THAT PREVENT THE DUCTWORK FROM BEING VISUALLY INSPECTED ON ALL SIDES. THE PERMIT HOLDER SHALL BE RESPONSIBLE TO PROVIDE THE NECESSARY EQUIPMENT AND PERFORM THE GREASE DUCT LEAKAGE TEST. A LIGHT TEXT SHALL BE PERFORMED TO DETERMINE THAT ALL WELDED AND BRAZED JOINTS ARE LIQUID-TIGHT.

OVEN HOOD VENDOR: CAPTIVEAIRE SYSTEMS, REGION 85  
PHONE: 425-212-5896v2  
CONTACT: JON CLARKE  
EMAIL: REG85@CAPTIVEAIRE.COM

NOTE:  
EACH HOOD SHALL BEAR THE FOLLOWING APPROVALS:  
NSF # 1362, SBCCI # 8469, U.L. CLASSIFICATION # 91G6, NFPA #90A, 90B, 96-101

**GENERAL NOTES**

- GENERAL:
- COORDINATE MECHANICAL WORK WITH ELECTRICAL, ARCHITECTURAL, STRUCTURAL, CIVIL AND LANDSCAPE WORK SHOWN ON OTHER CONTRACT DOCUMENTS. PROVIDE ADDITIONAL OFFSETS FOR COORDINATED INSTALLATION WHERE REQUIRED.
  - COORDINATE HVAC, PLUMBING AND FIRE PROTECTION WORK PRIOR TO INSTALLATION. DUCTWORK AND EQUIPMENT ACCESS TAKES PRECEDENCE OVER PIPING FOR AVAILABLE SPACE.
  - WHERE USED, THE TERM "PROVIDE" SHALL MEAN "FURNISH AND INSTALL".
  - COORDINATE EQUIPMENT CONNECTIONS WITH MANUFACTURERS' CERTIFIED DRAWINGS. COORDINATE AND PROVIDE DUCT AND PIPING TRANSITIONS REQUIRED FOR FINAL EQUIPMENT CONNECTIONS TO FURNISHED EQUIPMENT. FIELD VERIFY AND COORDINATE DUCT AND PIPING DIMENSIONS BEFORE FABRICATION.
  - PROVIDE MISCELLANEOUS STEEL REQUIRED TO ENSURE PROPER INSTALLATION OF MECHANICAL SYSTEMS.
  - LOCATE VALVES, WATER HAMMER ARRESTERS, CLEANOUTS, DAMPERS, CONTROLS AND SIMILAR COMPONENTS SO THAT THEY ARE ACCESSIBLE. PROVIDE ACCESS DOORS FOR MECHANICAL EQUIPMENT INSTALLED BEHIND WALLS, ABOVE INACCESSIBLE CEILINGS AND BELOW FLOORS. COORDINATE ACCESS DOOR LOCATIONS WITH ARCHITECT/ENGINEER. INSTALL TAG ON CEILING GRID FRAME TO INDICATE LOCATION AND TYPE OF EQUIPMENT THAT REQUIRES MAINTENANCE. PROVIDE 16 GA. STEEL, FLUSH TYPE ACCESS DOOR WITH CONCEALED HINGE AND SLOT SCREWDRIVER TYPE CAM LATCH. PROVIDE FACTORY PRIMED IN PAINTED SURFACE AREAS FOR FIELD PAINTING. PROVIDE STAINLESS STEEL FOR ALL OTHER AREAS. PROVIDE U.L. LISTED AND LABELED DOOR WHERE FIRE-RESISTANCE RATING IS INDICATED ON DRAWINGS. ACCESS DOOR SHALL BE SIZED SO THAT ADJACENT EQUIPMENT IS ACCESSIBLE. PROVIDE ACDUR, ELMODR, MILCOR, OR APPROVED.
  - COORDINATE ATTACHMENTS TO STRUCTURE TO VERIFY THAT ATTACHMENT POINTS ON EQUIPMENT AND STRUCTURE CAN ACCEPT SEISMIC, WEIGHT, AND OTHER LOADS IMPOSED.
  - REFER TO TYPICAL DETAILS PROVIDED IN THIS DWG SET FOR DUCTWORK, PIPING, AND EQUIPMENT INSTALLATION. CONTRACTOR IS RESPONSIBLE FOR CONFORMANCE WITH DETAILS.
  - LOCATIONS AND SIZES OF FLOOR, WALL, AND ROOF OPENINGS SHALL BE COORDINATED WITH OTHER TRADES INVOLVED. INCLUDE IN THE COST OF MECHANICAL WORK, CUTTING, CORING, PATCHING AND PAINTING OF EXISTING WALLS, CEILINGS, FLOORS AND ROOFS AS REQUIRED TO ACCOMMODATE WORK AS INDICATED IN THE MECHANICAL CONTRACT DOCUMENTS, UNLESS SPECIFICALLY SHOWN ON ARCHITECTURAL DRAWINGS.
  - PROVIDE ELASTOMERIC FOAM MATERIAL ON MECHANICAL EQUIPMENT THAT PRESENT A SAFETY HAZARD.
  - THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE SAFEKEEPING OF HIS OWN PROPERTY ON THE JOB SITE. OWNER ASSUMES NO RESPONSIBILITY FOR PROTECTION OF PROPERTIES AGAINST FIRE, THEFT AND ENVIRONMENTAL CONDITIONS.
  - CLEAN THE JOB SITE DAILY AND REMOVE FROM THE PREMISES ANY DIRT AND DEBRIS CAUSE BY THE PERFORMANCE OF THE WORK INCLUDED IN THIS CONTRACT. BEFORE SUBSTANTIAL COMPLETION, CLEAN EQUIPMENT, FIXTURES, EXPOSED DUCTS, PIPING AND SIMILAR ITEMS.
  - PROVIDE EQUIPMENT THAT FITS INTO THE SPACE ALLOTTED AND ALLOWS ADEQUATE ACCEPTABLE CLEARANCE FOR INSTALLATION, REPLACEMENT, ENTRY, SERVICING AND MAINTENANCE. COORDINATE WITH OTHER TRADES TO ENSURE NO CONFLICT WITH REQUIRED CLEARANCES.
  - PROVIDE OFFSETS IN PIPING WHERE PLUMBING/PIPING WALL IS LOCATED DIRECTLY ABOVE STRUCTURE. OFFSET PIPING INTO CASEWORK OR SHAFT TIGHT TO WALL AND BACK INTO WALL ONCE BELOW STRUCTURE. REFER TO STRUCTURAL DRAWINGS.
  - BUILDING SPACE IS LIMITED. STRONG ATTENTION TO DETAIL AND CARE MUST BE TAKEN WHEN DEVELOPING SHOP DRAWING SO ROUTING IS COORDINATED WITH OTHER DISCIPLINES.
  - MATERIALS WITHIN PLENUMS SHALL BE NONCOMBUSTIBLE OR SHALL HAVE A FLAME SPREAD INDEX OF NOT MORE THAN 25 AND A SMOKE-DEVELOPED INDEX OF NOT MORE THAN 50 WHEN TESTED IN ACCORDANCE WITH ASTM E 84 OR UL 723.
  - MECHANICAL EQUIPMENT, PACKAGED UNITS, CONTROL PANELS, MOTOR STARTER, MOTOR CONTROLLERS, VARIABLE FREQUENCY DRIVES AND SIMILAR EQUIPMENT SHALL CARRY A SHORT CIRCUIT CURRENT RATING (SCCR) EQUAL TO OR GREATER THAN AVAILABLE FAULT CURRENT DELIVERED FROM ELECTRICAL SYSTEM. INCLUDE VISIBLE FACTORY NAMEPLATE FOR SUCH EQUIPMENT INDICATING SCCR OF EQUIPMENT IN ACCORDANCE WITH UL 1995 AND UL 508A, HVAC/SHEET METAL:
- DUCT WORK:
- DUCTWORK DIMENSIONS, AS SHOWN ON THE DRAWINGS, ARE INTERNAL CLEAR DIMENSIONS AND DUCT SIZE SHALL BE INCREASED TO COMPENSATE FOR DUCT LINING THICKNESS.
  - PROVIDE TEMPORARY COVERS OVER OPEN ENDS OF EQUIPMENT AND DUCTWORK DURING CONSTRUCTION.
  - PROVIDE MANUAL VOLUME DAMPER FOR EACH DIFFUSER, REGISTER, AND GRILLE.
  - PROVIDE DUCT ACCESS DOORS AT DUCT SMOKE DETECTORS, BACKDRAFT DAMPERS, MOTORIZED CONTROL DAMPERS, FIRE DAMPERS, SMOKE DAMPERS, COMBINATION FIRE/SMOKE DAMPERS, DUCT MOUNTED COILS, DUCT AIRFLOW STATIONS AND LOUVER PLENUMS.
  - PROVIDE THE FOLLOWING MINIMUM METAL BRANCH DUCT SIZE TO DIFFUSERS, REGISTERS, AND GRILLES, UNLESS NOTED TO USE LARGER SIZE ON DRAWINGS- SEE FLEX SIZE SCHEDULE ON SCHEDULE SHEET.
 

5.1.	6"Ø:	100 CFM
5.2.	8"Ø:	200 CFM
5.3.	10"Ø:	300 CFM
5.4.	12"Ø:	450 CFM
5.5.	14"Ø:	600 CFM
5.6.	16"Ø:	750 CFM

- FIRE PROTECTION:
- PAINT ALL EXPOSED AND VISIBLE FIRE SPRINKLER PIPING BLACK. DO NOT PAINT FIRE SPRINKLER HEADS.
- ENERGY CODE:
- MOTORS: COMPLY WITH MINIMUM FULL LOAD EFFICIENCIES LISTED IN THE STATE ENERGY CODE.
  - PIPING AND DUCT INSULATION: COMPLY WITH THICKNESS AND TYPES LISTED IN THE STATE ENERGY CODE.
  - DUCT SEALING: SEAL DUCT TRANSVERSE JOINTS AND LONGITUDINAL SEAMS PER STATE ENERGY CODE.
  - RECORD DRAWINGS: PROVIDE PER STATE ENERGY CODE.
  - OPERATION AND MAINTENANCE MANUALS: PROVIDE PER THE STATE ENERGY CODE.
  - SYSTEM BALANCING: PROVIDE PER THE STATE ENERGY CODE.
  - MECHANICAL SYSTEMS COMMISSIONING: PROVIDE PER THE STATE ENERGY CODE.
  - THIS BUILDING AND ITS ENERGY SYSTEMS HAVE BEEN DESIGNED TO COMPLY WITH THE STATE ENERGY CODE. CONTRACTOR IS RESPONSIBLE FOR CORRECT INSTALLATION OF ENERGY CONSERVATION MEASURES.
  - BUILDING PRESSURE TESTING: COORDINATE PHASING OF BUILDING ENVELOPE LEAKAGE TESTING WITH MECHANICAL SYSTEM SCOPES OF WORK. TEMPORARILY CAP SYSTEMS AS REQUIRED TO FACILITATE LEAKAGE TESTING SCOPE OF WORK.
- NON-STRUCTURAL MECHANICAL COMPONENTS:
- THE CONTRACTOR SHALL REFER TO THE ABOVE FOR ADDITIONAL INFORMATION, EXCEPTIONS, AND FURTHER DESCRIPTIONS. THE CONTRACTOR SHALL ADHERE TO REQUIREMENTS AND AS SUCH, SHALL BE INCLUDED WITHIN BID.
  - ARCHITECTURAL, MECHANICAL, ELECTRICAL, AND NON-STRUCTURAL COMPONENTS THAT ARE PERMANENTLY ATTACHED TO STRUCTURES AND THEIR SUPPORTS AND ATTACHMENTS SHALL BE DESIGNED AND CONSTRUCTED TO RESIST THE EFFECTS OF EARTHQUAKE MOTIONS IN ACCORDANCE WITH ASCE 7-10, EXCLUDING CHAPTER 14 AND APPENDIX 11A, IF REQUIRED
  - CONTRACTOR RESPONSIBILITY: THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE DESIGN AND CONSTRUCTION OF A SEISMIC-FORCE-RESISTING SYSTEM, DESIGNATED SEISMIC SYSTEM, OR SEISMIC-RESISTING COMPONENT LISTED IN THE STATEMENT OF SPECIAL INSPECTIONS, IF REQUIRED
  - HANGERS AND BRACING FOR THE MECHANICAL SYSTEMS SHALL BE DESIGNED AND PROVIDED BY THE MECHANICAL CONTRACTOR. REFER TO CONTRACTOR SHOP DRAWINGS FOR LOCATIONS OF EQUIPMENT AND HUNG MECHANICAL SYSTEMS. THE MECHANICAL CONTRACTOR SHALL COORDINATE THE SUPPORT SYSTEMS AND DESIGN LOADS FOR HUNG MECHANICAL SYSTEMS WITH THE GENERAL CONTRACTOR AND OTHER TRADES THAT MAY BE IMPACTED.
  - ALL WORK SHALL BE IN STRICT ACCORDANCE WITH THE FOLLOWING CODES:
 

2020 INTERNATIONAL BUILDING CODE
2020 INTERNATIONAL PLUMBING CODE
2020 INTERNATIONAL MECHANICAL CODE
2020 INTERNATIONAL ELECTRICAL CODE
2020 INTERNATIONAL ENERGY CODE
2020 INTERNATIONAL FIRE PREVENTION CODE





2035 158th CT NE Suite 200 Bellevue, WA 98008

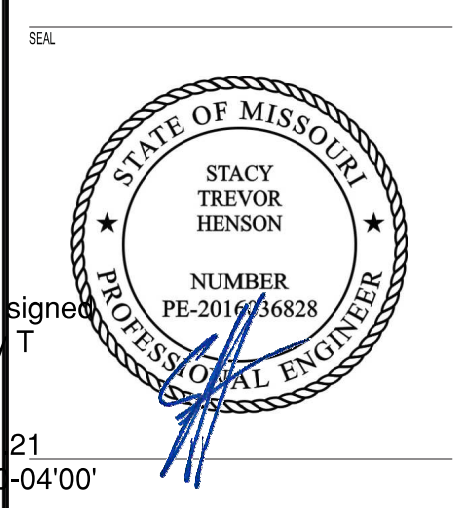
ARCHITECT OF RECORD INTERPLAN INTERPLAN LLC

ARCH COA #2015008774 ENG COA #2005026904

ARCHITECTURE ENGINEERING PERMITTING

220 E. CENTRAL PKWY, STE 4000 ALTAMONTE SPRINGS, FL 32701 407.645.5008 PROJECT NO. 2021.0524

CONSULTANT



Digitally signed by Stacy T. Henson Date: 2021.10.21 16:46:50 -04'00'

MOD LEE'S SUMMIT 460 NW CHIPMAN RD LEE'S SUMMIT, MO 64086

ISSUED / REVISED DATE BUILDING COMMENTS 10.18.21 DESIGN UPGRADES 10.18.21

PERMIT SET 09.20.21

M-111 MECHANICAL FLOOR PLAN

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NOTE: UPON ACTIVATION OF ANY FIRE EXTINGUISHING SYSTEM FOR A COOKING OPERATION, ALL SOURCES OF FUEL AND ELECTRIC POWER THAT PRODUCE HEAT TO ALL EQUIPMENT REQUIRING PROTECTION BY THAT SYSTEM SHALL AUTOMATICALLY SHUT OFF. ACTIVATION OF THE AUTOMATIC FIRE EXTINGUISHING SYSTEM MUST IMMEDIATELY SHUT OFF GAS AND ELECTRIC SUPPLY TO ALL APPLIANCES UNDER THE PROTECTED HOOD. THE PLUMBING CONTRACTOR SHALL PROVIDE A MASTER SOLENOID VALVE IN GAS LINE TO DISCONNECT ALL GAS APPLIANCES. MANUAL GAS AND ELECTRIC RESETS ARE REQUIRED. ALL MAKEUP AIR FANS AND KITCHEN ROOFTOP UNITS SHALL DE-ENERGIZE UPON ACTIVATION OF FIRE/ANSUL HOOD SYSTEM.

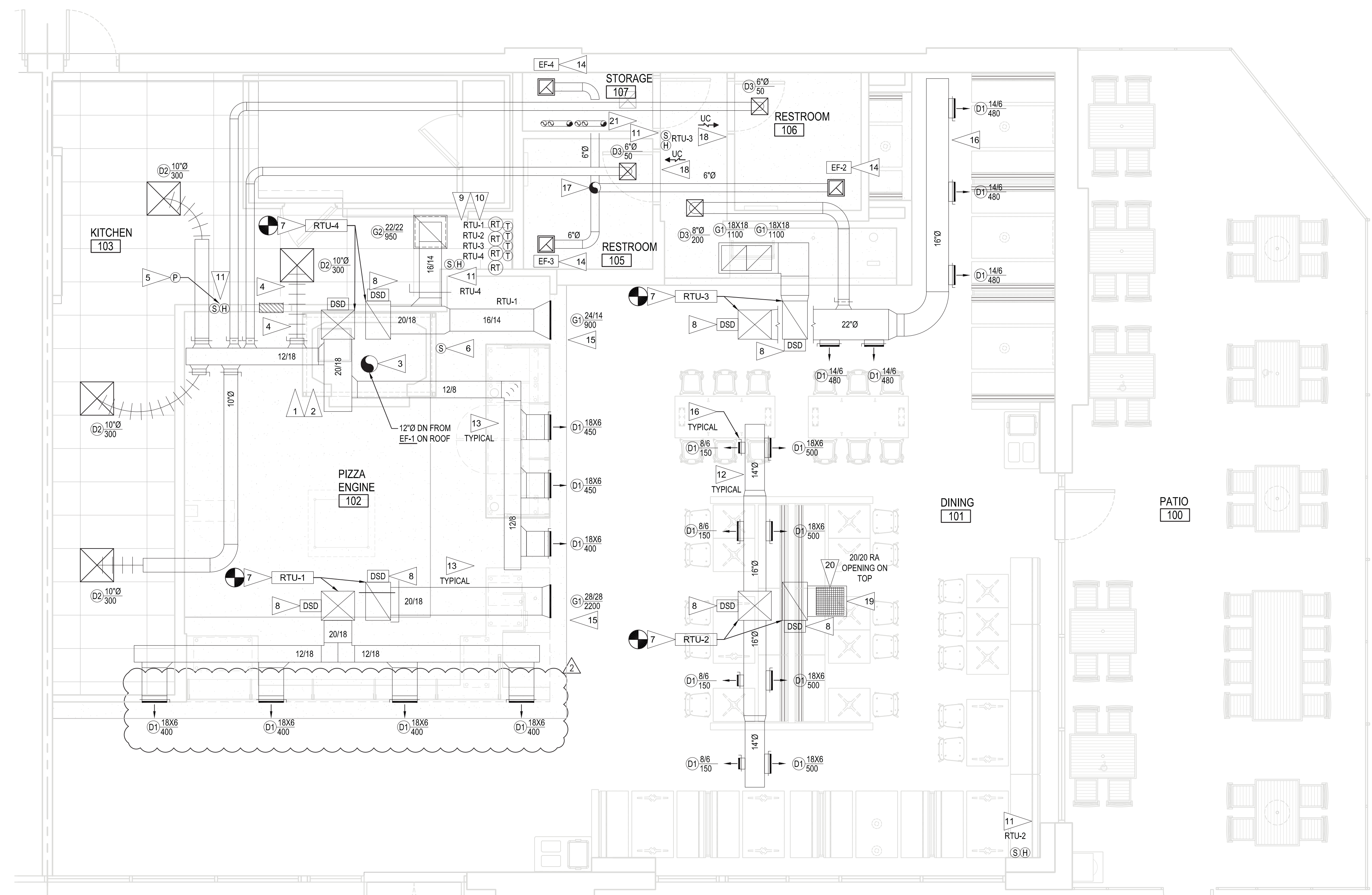
NOTE: PROVIDE WALL MOUNTED TEMPERATURE SENSORS IN EACH ZONE. PRIOR TO INSTALLATION VERIFY LOCATION OF TEMPERATURE SENSOR DOES NOT CONFLICT WITH WALL GRAPHICS, WALL ARTWORK, MENU BOARDS, AND BADGES.

NOTE: ADD INTERLOCK TIMER FOR OVEN AND OVEN EXHAUST.

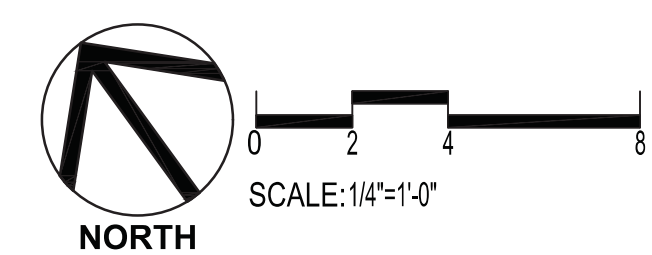
DUCT SIZING METHOD SIZE ANY NEW DUCTWORK USING A DUCTULATOR. SIZE DUCTWORK AT 0.08" FRICTION PER 100 FT OF DUCT. FLEX SHALL BE SIZED 0.05" PER 100FT.

# KEYED NOTES

- 1. OVEN VENT SYSTEM TO BE PROCURED BY CONTRACTOR ONLY FROM CAPTIVE AIR SYSTEMS REGION 85, 426-212-5996, REG85@CAPTIVEAIRE.COM, NO SUBSTITUTIONS PERMITTED. REFER TO H-SERIES SHEETS BY CAPTIVE AIRE FOR ADDITIONAL INFORMATION.
2. EXHAUST HOOD FIRE SUPPRESSION SYSTEM INDICATED IS SEPARATE FROM CAPTIVEAIRE SCOPE. CONTRACTOR TO INCLUDE, BUT NOT LIMITED TO, GAS VALVE, TANK, CHEMICAL, CARTRIDGE, AUTOMAN, PERMIT, AND SOURCE EXHAUST HOOD FIRE SUPPRESSION LOCALLY TO COMPLY WITH APPLICABLE CODE REQUIREMENTS.
3. 12"Ø EXHAUST DUCT UP TO EF-1 ON ROOF. CONTRACTOR TO MEASURE DUCTING IMMEDIATELY AFTER OVEN INSTALLATION AND PROMPTLY PROVIDE INFORMATION TO CAPTIVEAIRE SYSTEMS FOR FABRICATION. FABRICATION AND DELIVER TAKE FOUR (4) WEEKS MINIMUM. INCORPORATE INTO CONSTRUCTION SCHEDULE ACCORDINGLY.
4. ANSUL AUTOMAN BOX LOCATED ABOVE DOORWAY. REFER TO H-SERIES SHEETS BY CAPTIVEAIRE FOR ADDITIONAL INFORMATION.
5. HOOD HMI USER INTERFACE, REMOTE PULL STATION AND PIZZA OVEN EMERGENCY SHUTOFF LOCATED ON THIS WALL. AT LEAST ONE MANUAL SYSTEM ACTUATOR, PULL STATION, SHALL BE PROVIDED FOR EACH SYSTEM AND BE LOCATED NOT MORE THAN 4 FEET AND NOT LESS THAN 42 INCHES ABOVE THE FINISHED FLOOR, NFPA 7A - SECTION 5.2.1.10. THE MANUAL SYSTEM ACTUATING DEVICE SHALL BE A MINIMUM OF 10 FT. AND A MAXIMUM OF 20 FEET FROM THE KITCHEN EXHAUST SYSTEM, BE CONVENIENTLY AND EASILY ACCESSIBLE AT ALL TIMES, INCLUDING AT THE TIME OF A FIRE. IBC/IFC - SECTION 904.11.1. VERIFY LOCATION OF MANUAL PULL STATION WITH FIRE INSPECTOR PRIOR TO INSTALLATION.
6. INSTALL AMBIENT AIR TEMPERATURE SENSOR FOR CAPTIVEAIRE TYPE I HOOD ON THE SIDE OF THE OVEN AS SHOWN. SENSOR FURNISHED IN CAPTIVEAIRE TYPE I HOOD PACKAGE. FIELD VERIFY EXACT LOCATION ON THE OVEN.
7. FULL SIZE SUPPLY AND RETURN AIR DUCT UP TO LANDLORD PROVIDED ROOFTOP UNITS TRANSITION AND OFFSET AS REQUIRED. FIELD VERIFY ALL ROUTING AND REQUIREMENTS PRIOR TO BID AND INSTALLATION. ALL ROOF WORK TO BE BY LANDLORDS ROOFING CONTRACTOR.
8. VERIFY EXISTING DUCT SMOKE DETECTOR. IF NON-EXISTING CONTRACTOR SHALL PROVIDE DUCT MOUNTED SMOKE DETECTORS IN THE SUPPLY & RETURN DUCT AND ALL WIRING CONNECTIONS. THE DUCT SMOKE DETECTOR SHALL BE COMPATIBLE WITH THE FIRE ALARM SYSTEM IF EXISTING. THE MECHANICAL CONTRACTOR SHALL INSTALL THE SMOKE DETECTOR AND REMOTE TEST STATION. ELECTRICAL CONTRACTOR SHALL CONNECT TO A FIRE ALARM SYSTEM. THE ACTIVATION OF THE DUCT SMOKE DETECTOR SHALL ACTIVATE AN AUDIBLE/VISUAL ALARM AT A CONSTANTLY ATTENDED LOCATION. MECHANICAL AND ELECTRICAL CONTRACTOR SHALL TEST AND VERIFY THE SMOKE DETECTION SYSTEM WORKS PROPERLY AND MEETS ALL LOCAL AND STATE CODES. EXACT LOCATION OF REMOTE STATION SHALL BE FIELD VERIFIED.
9. VERIFY EXISTING REMOTE TEST STATION AND RELOCATE TO WHERE SHOWN ON PLANS. IF NON-EXISTING CONTRACTOR SHALL PROVIDE REMOTE TEST STATION FOR RTUS SMOKE DETECTORS. MOUNT TEST STATIONS IN THIS LOCATION. PROVIDE WITH AUDIBLE AND VISUAL ALARM WITH KEYPAD. MOUNT TEST STATION 48 INCHES AFF. MOUNT AT MANAGER STATION. MOUNT AUDIBLE AND VISUAL ALARM IN CONSTANTLY ATTENDED LOCATION. AUDIBLE AND VISUAL ALARM IS NOT REQUIRED WHERE DUCT SMOKE DETECTOR ACTIVATES THE BUILDING'S ALARM SYSTEM. LABEL EACH REMOTE WITH ASSOCIATED ROOFTOP UNIT. FIELD VERIFY EXACT LOCATION WITH TENANTS CONSTRUCTION MANAGER.
10. VERIFY EXISTING THERMOSTAT AND RELOCATE TO WHERE SHOWN ON PLANS. IF NON-EXISTING MECHANICAL CONTRACTOR SHALL PROVIDE AND INSTALL THERMOSTAT AT THE MANAGERS DESK. THERMOSTAT SHALL BE HONEYWELL MODEL VISION PRO 8000, MOUNT AT 48" AFF. COORDINATE EXACT LOCATION WITH TENANT CONSTRUCTION MANAGER. WIRE TO HVAC EQUIPMENT PER MANUFACTURER'S PRINTED INSTRUCTIONS. THE ENTIRE CONTROL SYSTEM SHALL BE PROVIDED COMPLETE IN EVERY RESPECT BY THE MECHANICAL CONTRACTOR.
11. VERIFY EXISTING TEMPERATURE/HUMIDITY SENSOR AND RELOCATE TO WHERE SHOWN ON PLANS. MECHANICAL CONTRACTOR TO INSTALL TEMPERATURE/HUMIDITY SENSOR AT THIS LOCATION. MOUNT ON WALL AT 60" AFF. PROVIDE CONDUIT FOR CONTROL WIRE. FIELD VERIFY ALL REQUIREMENTS AND COORDINATE EXACT LOCATION WITH OWNERS REPRESENTATIVE. DO NOT PLACE ON ANY EXTERIOR WALL.
12. ROUND EXPOSED SUPPLY DUCT SHOWN IN DINING AREA SHALL BE GALVANIZED DOUBLE-WALL INSULATED SPIRAL DUCT. ALL DUCTWORK SHALL BE HUNG AT THE SAME HEIGHT AND AS HIGH AS POSSIBLE. SPIRAL DUCT SHALL BE ORDERED AND INSTALLED BY MECHANICAL CONTRACTOR. ROUTE SPIRAL BELOW JUST AND ROUTE DUCT HIGH AS POSSIBLE. FIELD VERIFY ALL REQUIREMENTS PRIOR TO BID. SEE ARCHITECTURAL DRAWING FOR COLOR TO PAINT DUCTWORK IF REQUIRED. PAINT ALL REQUIRED DIFFUSERS AND REGISTERS PRIOR TO INSTALLATION. REFER TO ARCHITECTURAL PLANS FOR DETAILS. ANY PAINTING OF DIFFUSER SHALL BE DONE PRIOR TO INSTALLATION.
13. ALL NEW SUPPLY AND RETURN DUCTWORK ABOVE CEILING SHALL BE GALVANIZED STEEL, EXTERNALLY INSULATED WITH TYPE 150, 2 INCH THICK, DUCTWRAP. INSTALLED R VALUE SHALL BE A MINIMUM OF 6.4. SEAL ALL JOINTS AND SEAMS WITH GLASS FABRIC AND MASTIC MEETING UL 181.
14. PROVIDE WITH PROGRAMMABLE TIMER TO OPERATE DURING BUSINESS HOURS.
15. LOCATE RETURN AIR GRILLES IN BULK HEAD ABOVE SOFFIT AND PAINT TO MATCH ADJACENT WALL SURFACE. PAINT GRILLES PRIOR TO INSTALLATION.
16. CONTRACTOR TO MAKE SURE THAT SUPPLY SIDEWALL AIR DEVICES AVOID BLOWING ON PENDANT LIGHT STEMS, TYPICAL ALL SIDEWALLS.
17. 8"Ø EXHAUST DUCT UP THRU ROOF. PROVIDE BACKDRAFT DAMPER, RAIN CAP AND 1/4 SQ. NON CORROSIVE WIRE MESH. EXHAUST DUCT SHALL BE GALVANIZED DUCT.
18. GC TO UNDERCUT DOOR 1" FOR AIR PASSAGE.
19. EXPOSED RA DUCT IN DINING AREA SHALL BE GALVANIZED DOUBLE-WALL INSULATED RECTANGULAR DUCT. ALL DUCTWORK SHALL BE HUNG AT THE SAME HEIGHT AND AS HIGH AS POSSIBLE. DUCT SHALL BE ORDERED AND INSTALLED BY MECHANICAL CONTRACTOR. FIELD VERIFY ALL REQUIREMENTS PRIOR TO BID. SEE ARCHITECTURAL DRAWING FOR COLOR TO PAINT DUCTWORK IF REQUIRED. PAINT ALL REQUIRED DIFFUSERS AND REGISTERS PRIOR TO INSTALLATION. REFER TO ARCHITECTURAL PLANS FOR DETAILS. ANY PAINTING OF DIFFUSER SHALL BE DONE PRIOR TO INSTALLATION.
20. PROVIDE 22/20 DOWN FROM UNIT ON ROOF. EXTEND AS SHOWN AND CAP END OF DUCT. TAP 20/20 OPENING INTO TOP OF 22/20 RA DUCT SO AS NOT TO BE SEEN FROM BELOW. BALANCE TO CFM SHOWN ON SCHEDULE. PROVIDE 1/2"x1/2" PROTECTIVE NON CORROSIVE WIRE MESH TO PROTECT OPENING.
21. ROUTE 4" WATER HEATER INTAKE AND EXHAUST PIPING UP TO CONCENTRIC VENT PIPE UP TO ROOF. MAINTAIN 10'-0" CLEARANCE FROM ANY FRESH AIR INTAKE.



MECHANICAL FLOOR PLAN



Digitally signed by Stacy T Henson Date: 2021.10.21 16:46:51 -04'00'

ISSUED / REVISED	DATE
△ BUILDING COMMENTS	10.18.21
△ DESIGN UPGRADES	10.18.21

PERMIT SET 09.20.21

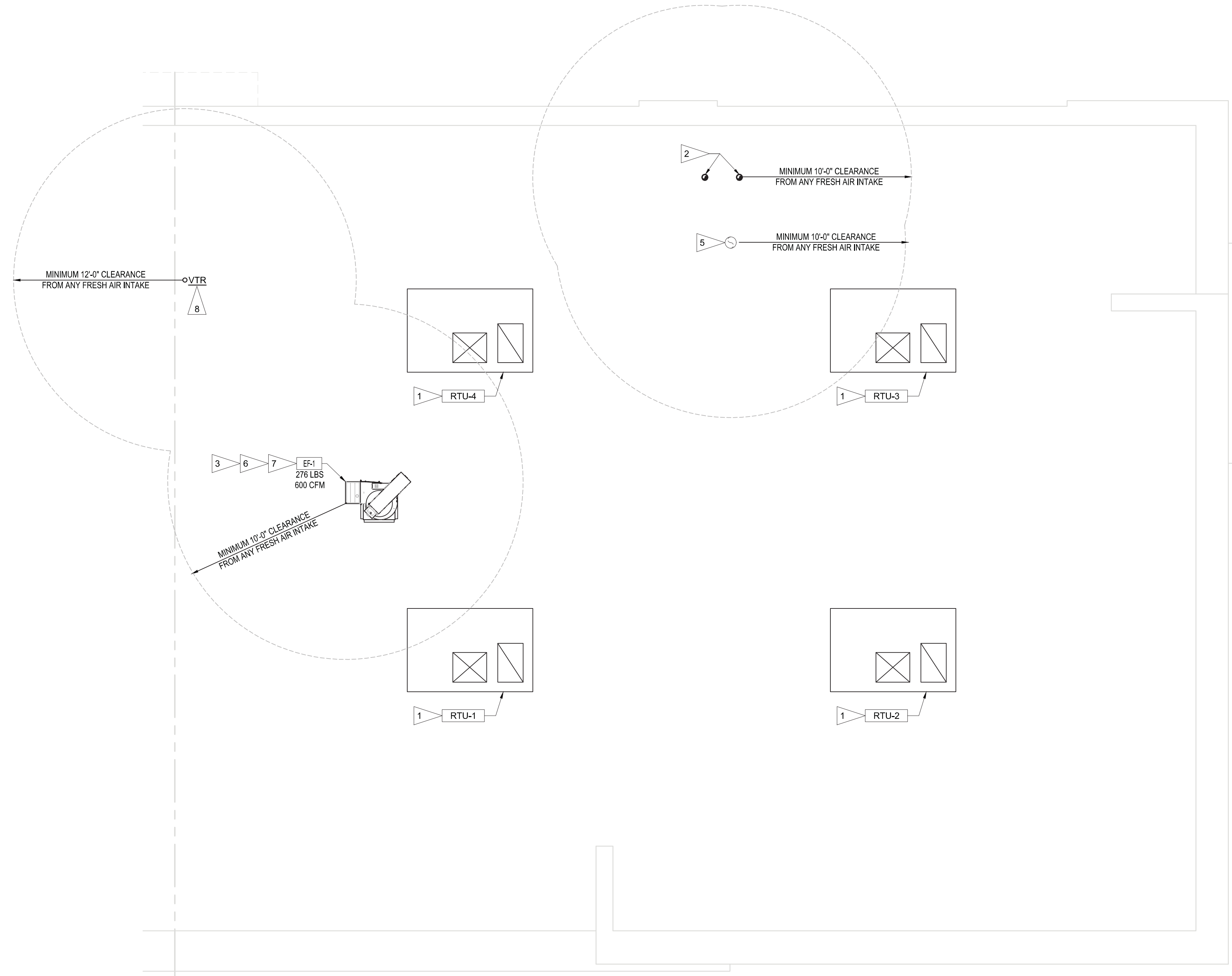
**M-131**  
MECHANICAL ROOF PLAN

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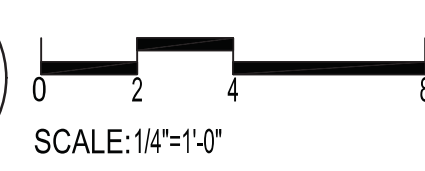
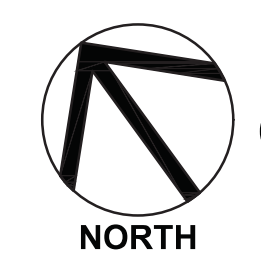
- # KEYED NOTES
- EXISTING RTU TO REMAIN AND REUSE. REFER TO SCHEDULE ON SHEET M-601 FOR INFORMATION.
  - CONCENTRIC VENT FROM WATER HEATER UP THROUGH ROOF. MAINTAIN 10' MINIMUM CLEARANCE FROM ALL FRESH AIR INTAKE.
  - COORDINATE EXACT ROOFTOP EQUIPMENT LOCATION FOR OPENINGS IN THE ROOF WITH THE STRUCTURAL MEMBERS PRIOR TO CUTTING DECK.
  - NOT USED.
  - 8"Ø EXHAUST UP FROM RESTROOMS. RESTROOM EXHAUST DUCT SHALL GALVANIZED STEEL. PROVIDE RAIN CAP WITH INTEGRAL BIRD SCREEN, BACKDRAFT DAMPER, AND ACCESSORIES AS REQUIRED. EXHAUST FAN SHALL MAINTAIN 10' CLEARANCE FOR ANY OUTSIDE AIR INTAKE. ALL ROOF WORK SHALL BE DONE BY LANDLORD'S ROOFING CONTRACTOR AT TENANT'S EXPENSE UNLESS NOTED OTHERWISE.
  - PROVIDE ALL NEW GREASE EXHAUST FAN WITH PRE-FABRICATED ROOF CURBS AND PROVIDED BY CAPTIVEAIRE INSTALLED BY GC. SECURE FAN TO CURB WITH SCREWS PER LOCAL CODE REQUIREMENTS. HOOD EXHAUST FAN SHALL BE MINIMUM 40" FROM ROOF SURFACE AND 10'-0" MINIMUM FROM AND FRESH AIR INTAKE. FIELD VERIFY EXACT CONDITIONS.
  - PROVIDE CAPTIVEAIRE HINGED BASE KIT OR EQUAL. THE HINGED BASE KIT IS A FIELD INSTALLED OPTION WHICH PROVIDES A LOCKABLE, HINGED CONNECTION BETWEEN THE FAN AND CURB. THIS ALLOWS EASY ACCESS TO THE WHEEL AND INLET OF THE FAN AS WELL AS THE INTERIOR DUCTWORK. THE KIT INCLUDES TWO HINGE PLATES, TWO LATCH PLATES, HINGE BOLTS, AIRCRAFT CABLE AND CLAMPS. SET FAN SO WHEN OPEN UP THERE IS ACCESS FOR CLEANING.
  - 4" VTR FROM VENT LINE UP THROUGH ROOF. MAINTAIN 12' MINIMUM CLEARANCE FROM ALL FRESH AIR INTAKE.

NOTE TO TENANT:  
RESTROOMS EXHAUST FANS SHOULD NOT BE ENGAGED AFTER RESTAURANT OPERATION HOURS. TO AVOID HIGH HUMIDITY PROBLEMS, IF FAN IS ENGAGED WITHOUT PROPER MAKEUP AIR HUMIDITY WILL BE DRAWN IN TO THE BUILDING.

NOTE:  
ALL NEW ROOFING WORK TO BE PERFORMED BY LANDLORD'S ROOFING CONTRACTOR.



MECHANICAL ROOF PLAN





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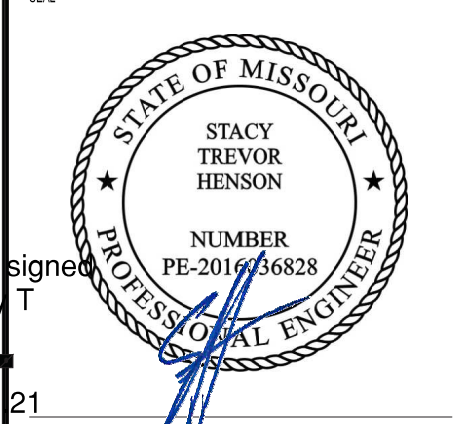
ARCHITECT OF RECORD INTERPLAN INTERPLAN LLC

ARCH COA #2015008774 ENG COA #2005026904

ARCHITECTURE ENGINEERING PERMITTING

220 E. CENTRAL PKWY, STE 4000 ALTAMONTE SPRINGS, FL 32701 407.645.5008 PROJECT NO. 2021.0524

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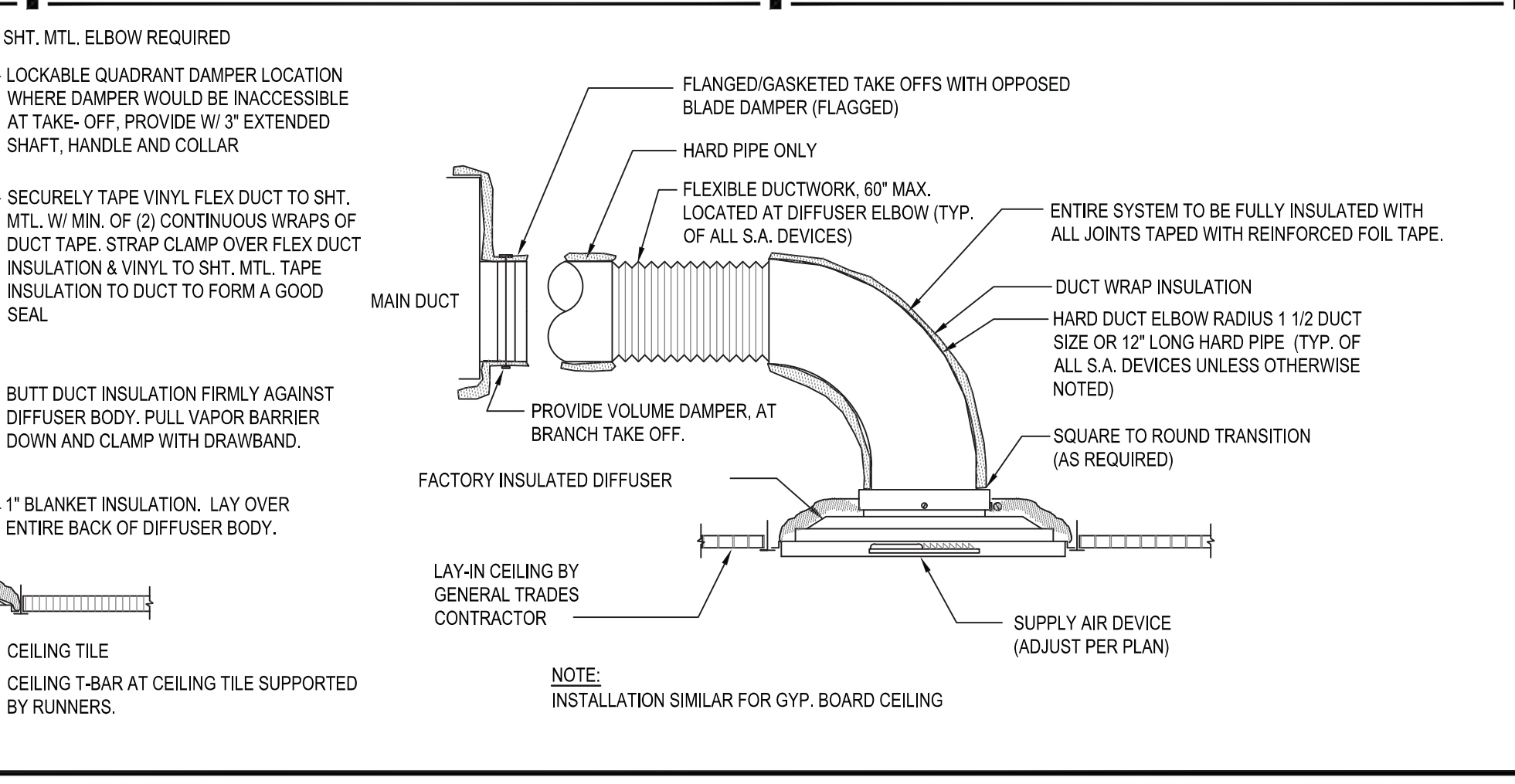
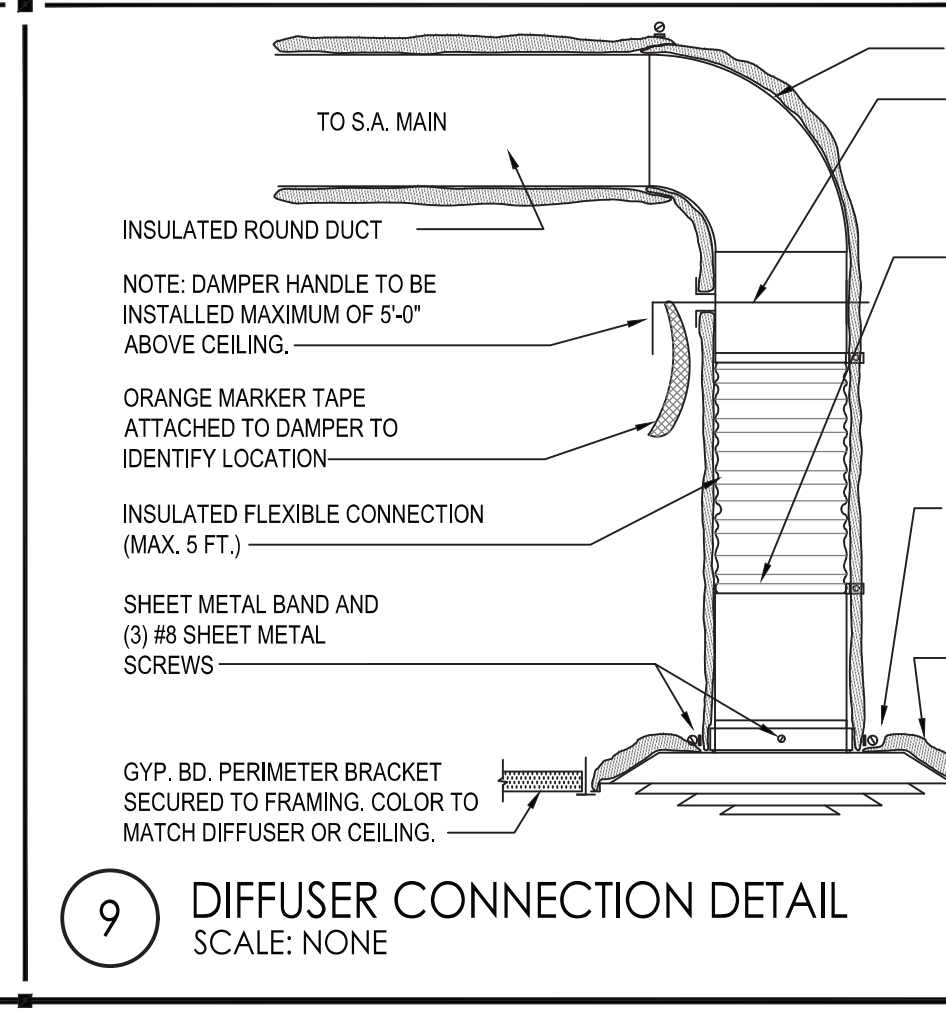
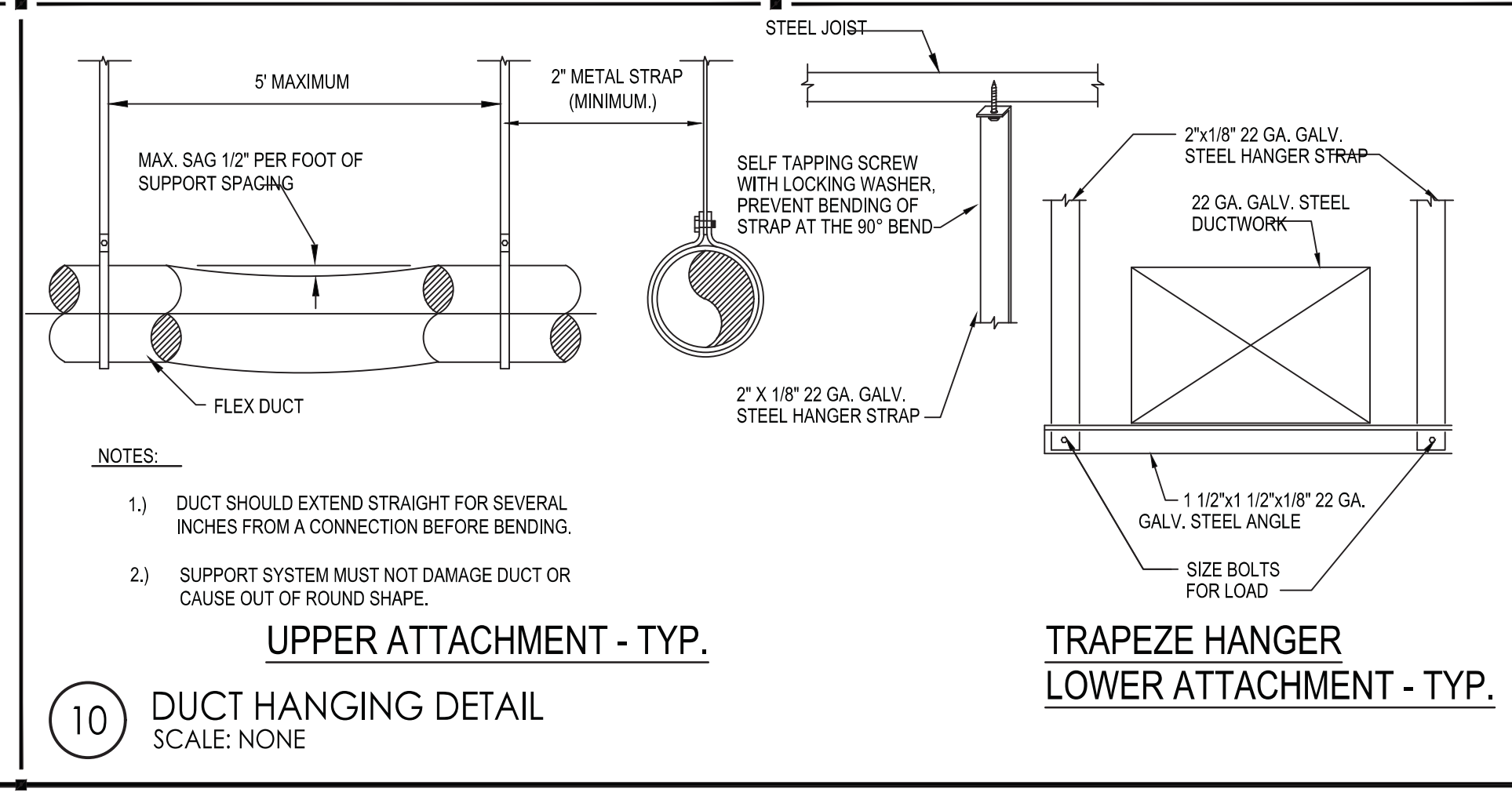
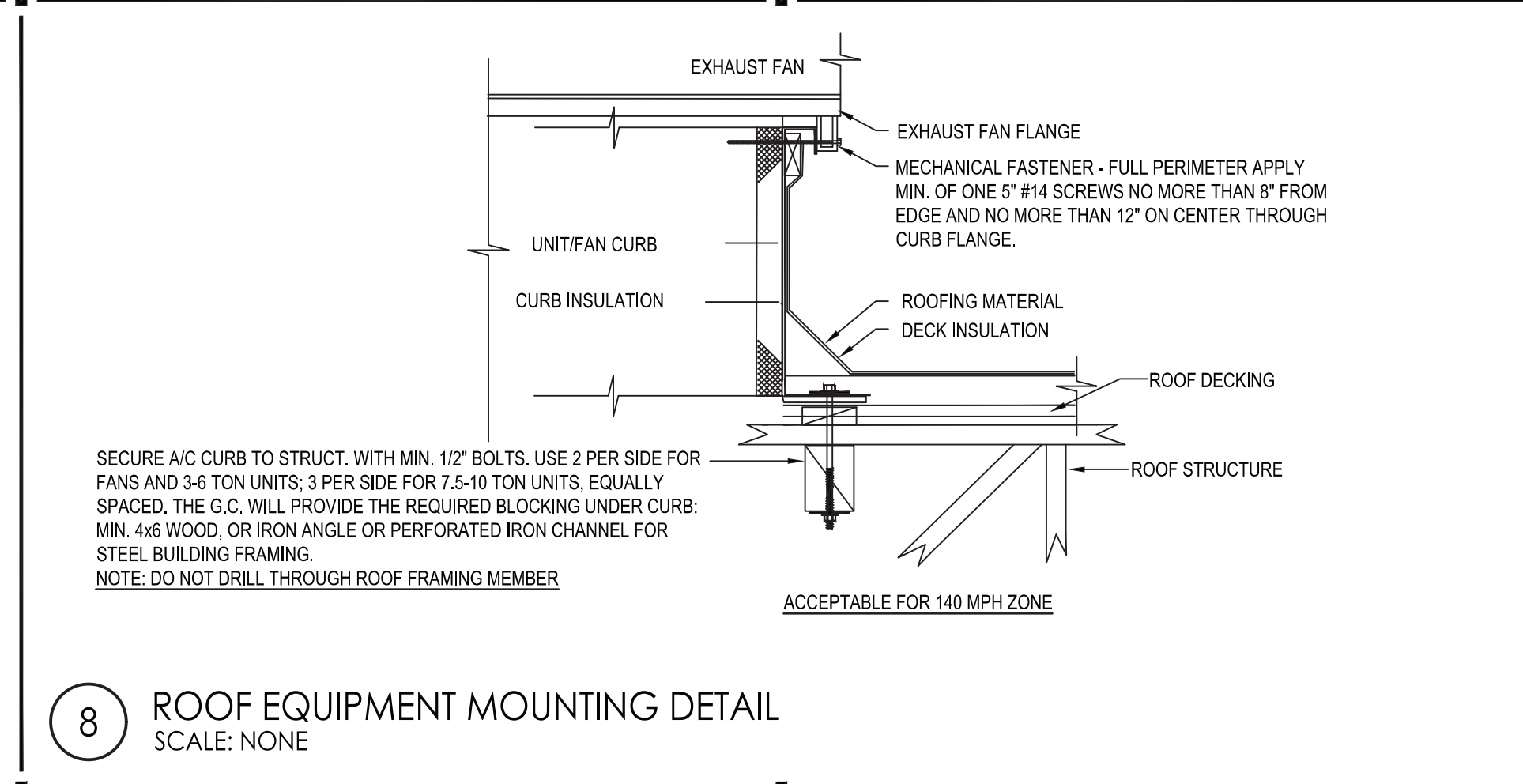
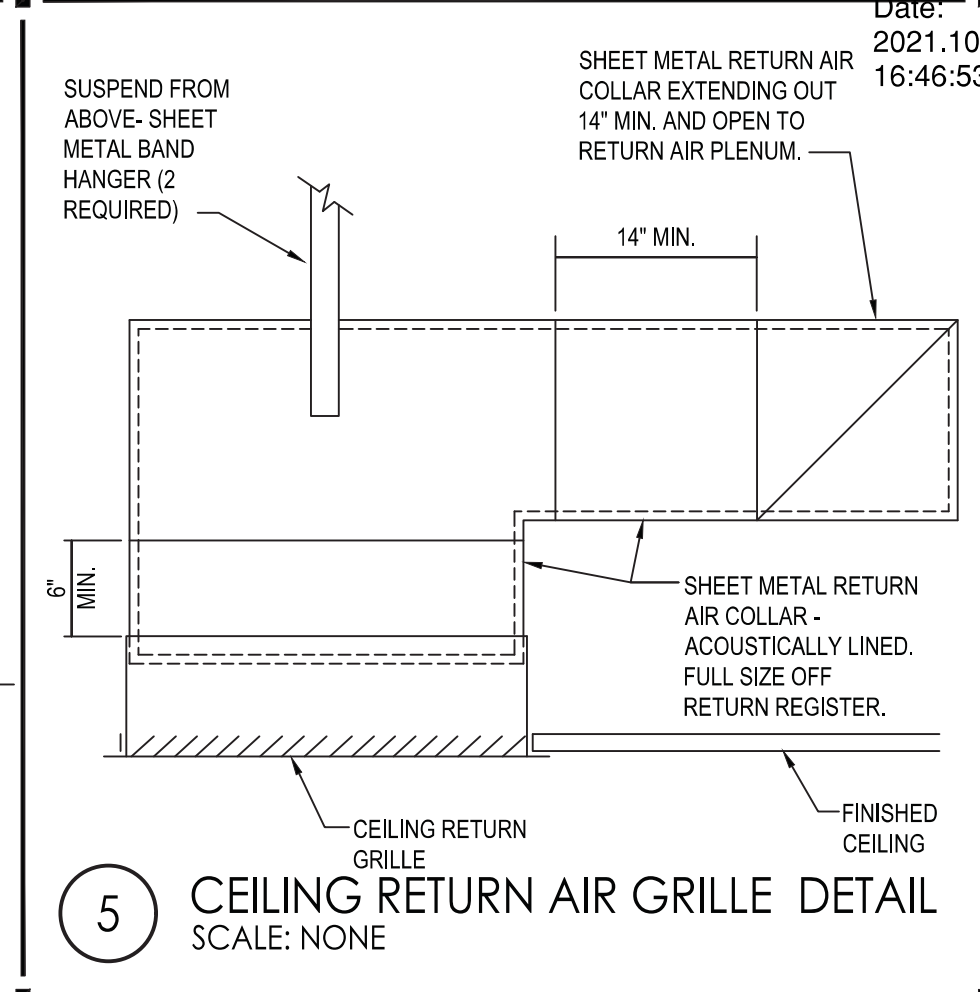
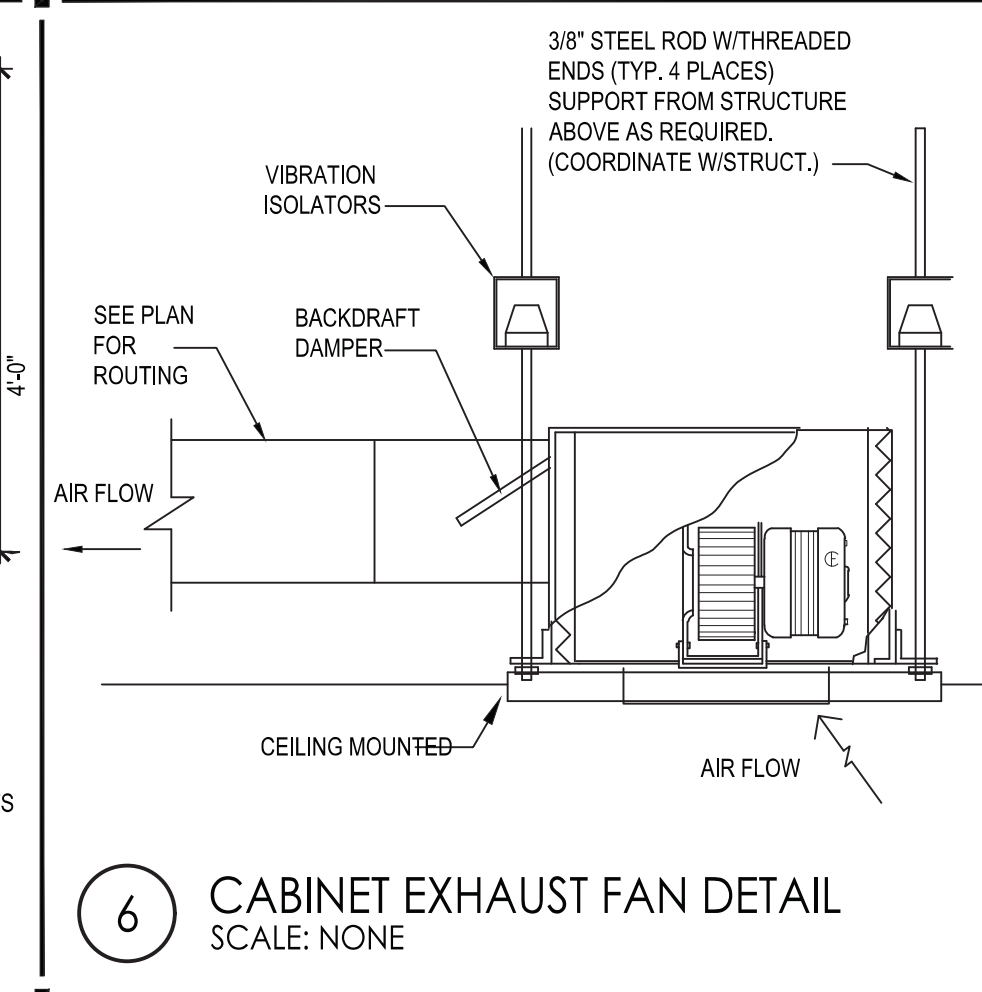
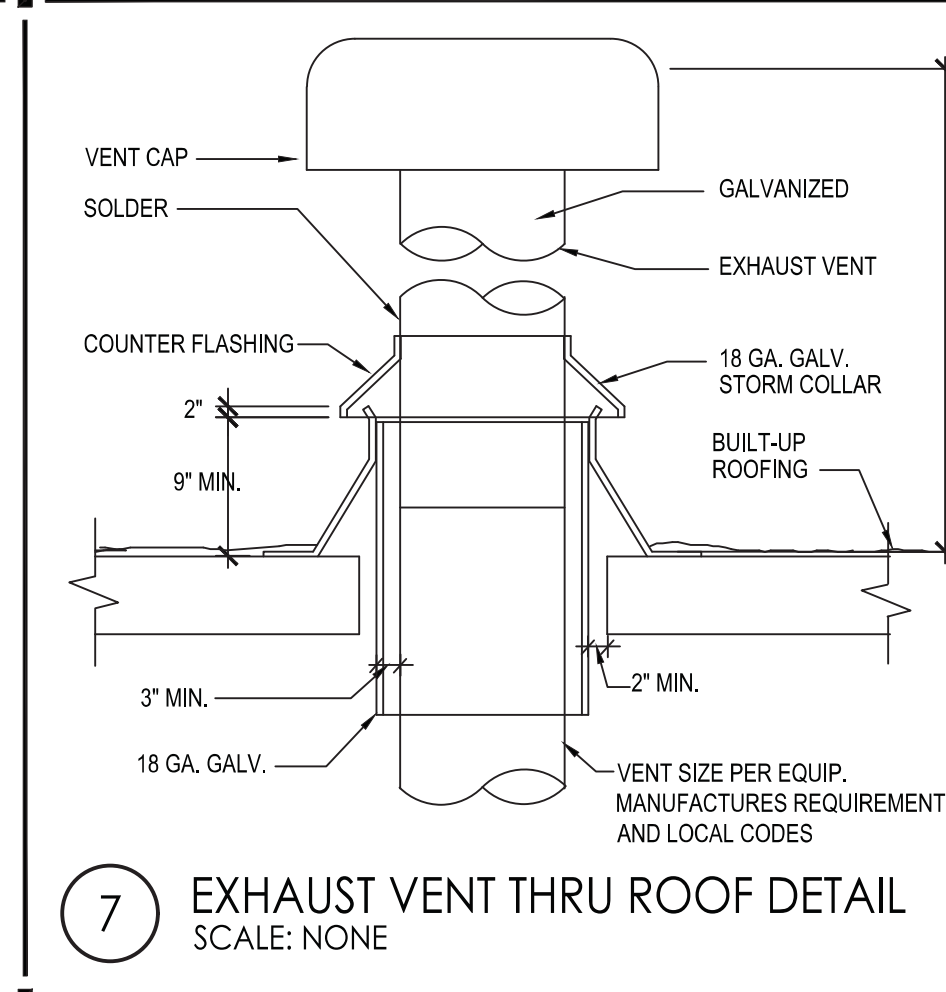
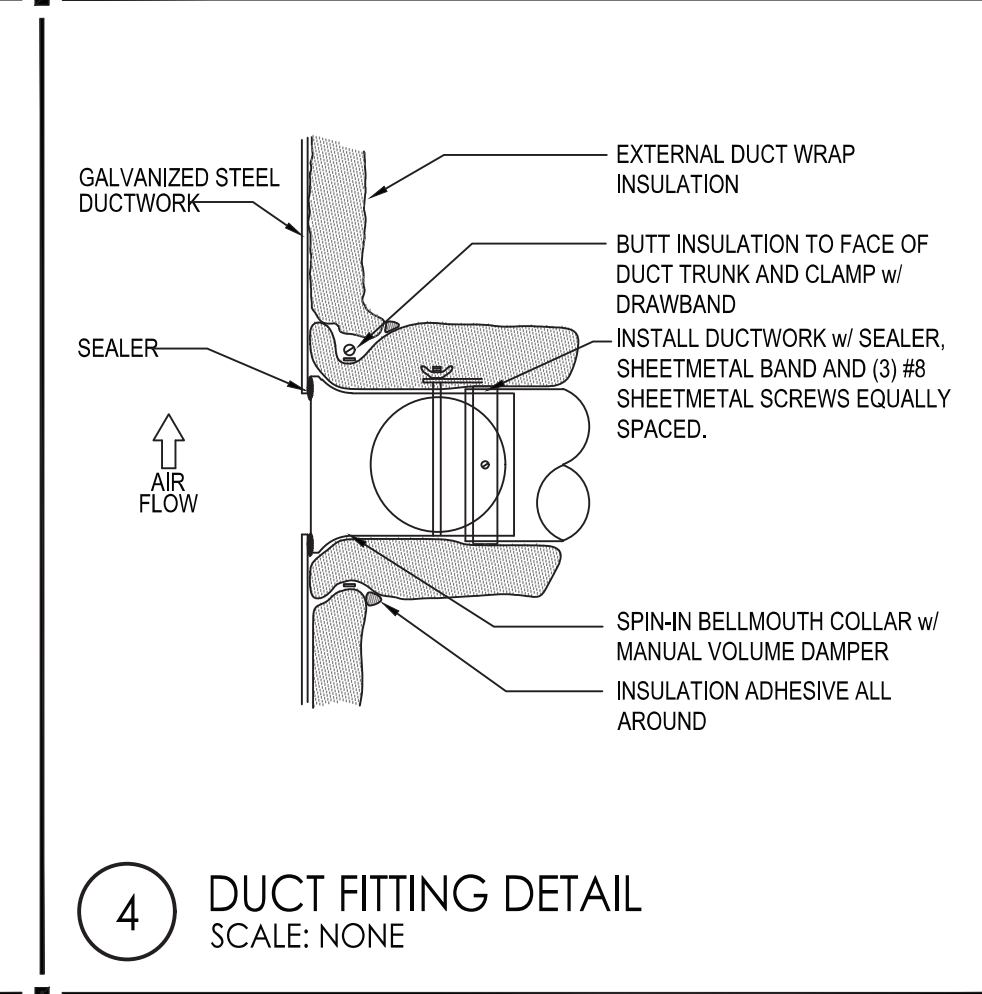
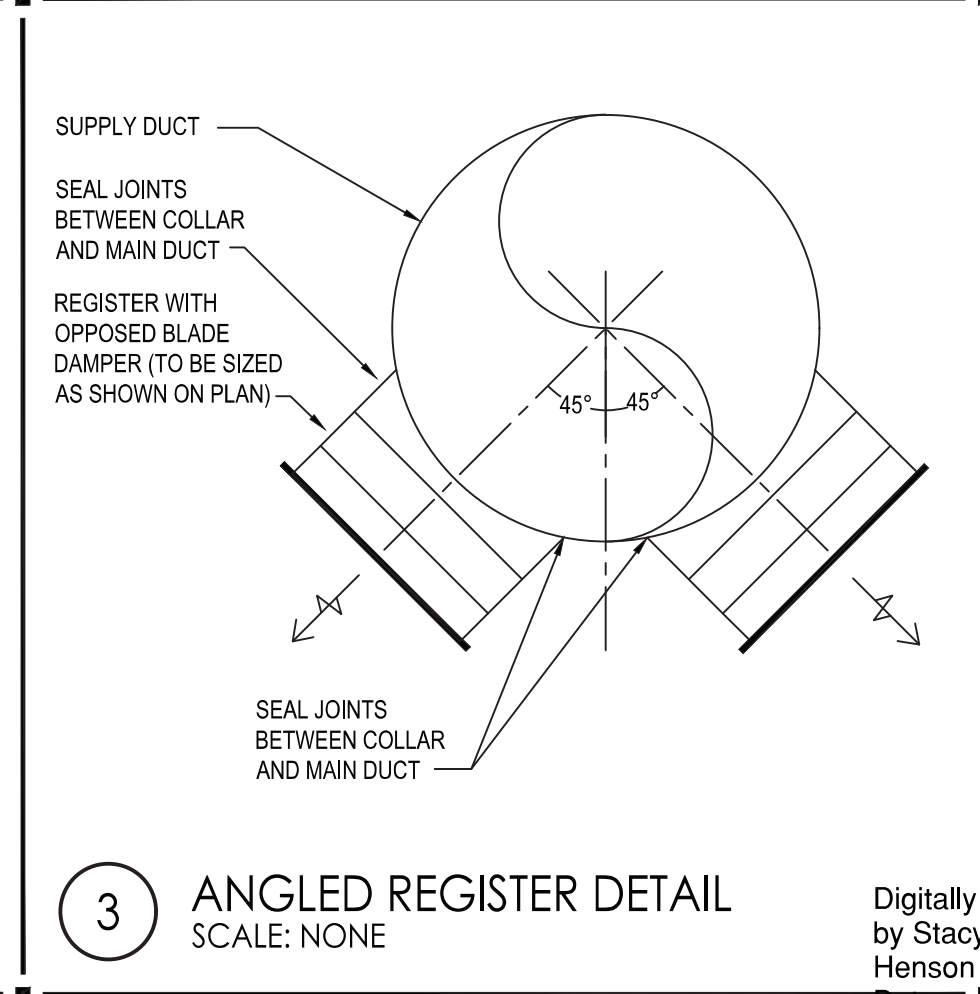
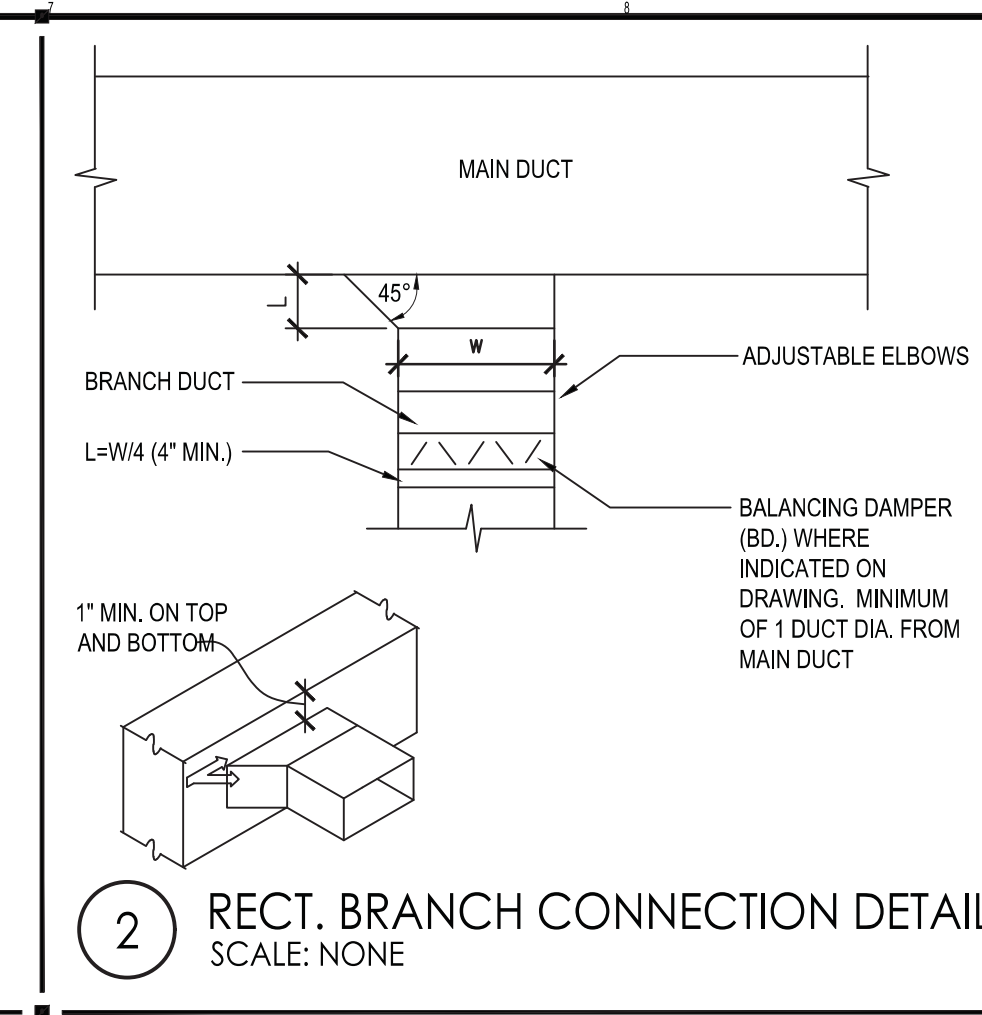
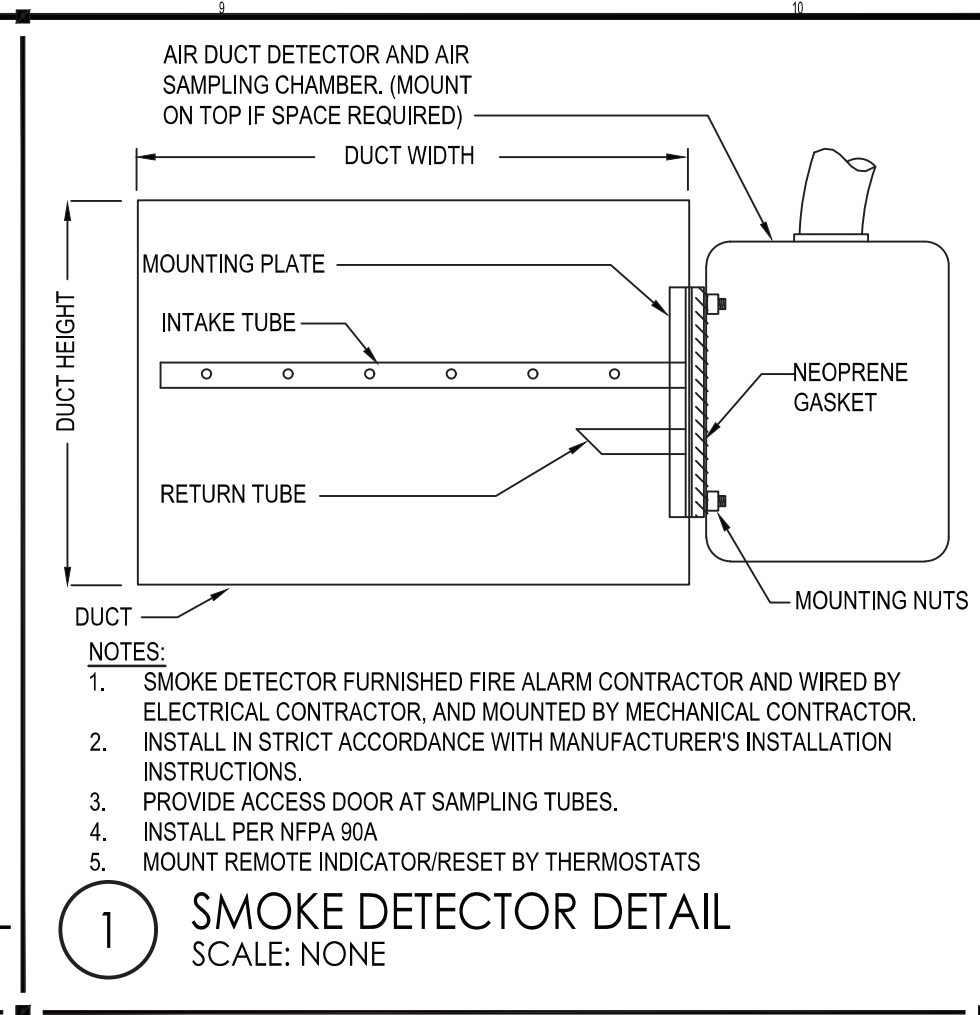
MOD LEES SUMMIT 460 NW CHIPMAN RD LEES SUMMIT, MO 64086

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M-501 MECHANICAL DETAILS

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UPPER ATTACHMENT - TYP. TRAPEZE HANGER LOWER ATTACHMENT - TYP.

- NOTES: 1) DUCT SHOULD EXTEND STRAIGHT FOR SEVERAL INCHES FROM A CONNECTION BEFORE BENDING. 2) SUPPORT SYSTEM MUST NOT DAMAGE DUCT OR CAUSE OUT OF ROUND SHAPE.



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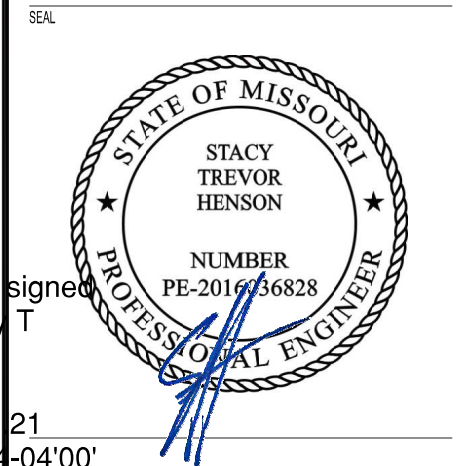
ARCHITECT OF RECORD  
**INTERPLAN**  
INTERPLAN LLC

ARCH COA #2015008774  
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ARCHITECTURE  
ENGINEERING  
PERMITTING

220 E. CENTRAL PKWY, STE 4000  
ALAMONTE SPRINGS, FL 32701  
407.645.5008  
PROJECT NO. 2021.0524

CONSULTANT



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**MOD LEES SUMMIT**  
460 NW CHIPMAN RD  
LEES SUMMIT, MO 64086

ISSUED / REVISED DATE  
▲ BUILDING COMMENTS 10.18.21  
▲ DESIGN UPGRADES 10.18.21

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**M-601**  
MECHANICAL SCHEDULES

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### DIFFUSER, REGISTER, AND GRILLE SCHEDULE

TAG	MANUFACTURER / MODEL	TYPE	MATERIAL	FINISH	FACE SIZE	DUCT INLET	MOUNTING	PATTERN	DAMPERS
D1	TITUS 300RS	SUPPLY GRILLE	ST	NOTE 7	NOTE 2	NOTE 3	NOTE 4	FA	NOTE 8
D2	TITUS PCS	PERFORATED SUPPLY DIFFUSER	ST	NOTE 5	NOTE 1	-	NOTE 4	ADJ	NONE
D3	TITUS TDC-AA	LOUVERED FACE SUPPLY DIFFUSER	AL	NOTE 5	NOTE 1	-	NOTE 4	ADJ	NONE
G1	TITUS 350RL	RETURN GRILLE	ST	NOTE 5	NOTE 2	NOTE 3	NOTE 4	-	NONE
G2	TITUS PAR	PERFORATED RETURN GRILLE	ST	NOTE 5	NOTE 1	-	NOTE 4	ADJ	NONE

- NOTES:
- SEE DRAWINGS FOR FACE SIZE (24x24 OR 12x12). PROVIDE 24x24 FOR LAY IN CEILINGS.
  - FACE SIZE DETERMINED FROM DUCT INLET SIZE.
  - SEE AIR DEVICE TAG FOR DUCT INLET SIZE.
  - COORDINATE BORDER TYPE (SURFACE MOUNT, SNAP IN, LAY-IN, SPLINE, DROPPED FACE, AND BEVELED DROP FACE) WITH CEILING TYPE AS SHOWN IN ARCHITECTURAL CEILING PLANS.
  - PROVIDE COLOR TO MATCH CEILING FINISH.
  - SLOTTED DIFFUSER SHALL BE 5' LONG x 2 SLOTS.
  - WHEN INSTALLED WITH DUCTWORK PAINT GRILLE GRAY TO MATCH DUCTWORK. OTHERWISE PAINT TO MATCH PARTITION.
  - PROVIDE WITH OPPOSED BLADE DAMPERS.

ABBREVIATIONS:  
ST = STEEL, AL = ALUMINUM, BE = BAKED ENAMEL, AA = ANODIZED ALUMINUM, FA = FULLY ADJUSTABLE, TP = TWO POSITION, OPD = OPPOSED BLADE DAMPERS, ADJ = ADJUSTABLE, BA=BAKED ACRYLIC, BO = BLANK OFF, DB = DIRECTIONAL BLADES, AND P = PLENUM.

### AIR BALANCE SCHEDULE

MARK	SUPPLY AIR	RETURN AIR	OUTSIDE AIR	EXHAUST
EF-1	-	-	-	-900
EF-2	-	-	-	-75
EF-3	-	-	-	-75
EF-4	-	-	-	-75
RTU-1	2600	2200	400	-
RTU-2	2600	2200	400	-
RTU-3	2600	2200	400	-
RTU-4	2600	2200	400	-
TOTAL	10400	8800	1600	-1125
BUILDING PRESSURE				475

### THERMOSTAT SCHEDULE

MARK	SERVICE LOCATION	OCCUPIED		UNOCCUPIED	
		COOLING	HEATING	COOLING	HEATING
RTU-1	DINING	72	68	80	64
RTU-2	DINING	72	68	80	64
RTU-3	DINING/KITCHEN/RR	72	68	80	64
RTU-4	DINING/KITCHEN/RR	72	68	80	64

- NOTES:
- CONTRACTOR SHALL COORDINATE EXACT OPERATIONAL TIMES WITH OWNER/MANAGER PRIOR TO PROGRAMMING.
  - CONTRACTOR SHALL INTERLINK RESTROOM EXHAUST FAN WITH OCCUPANCY SENSOR.
  - CONTRACTOR MUST VERIFY THAT HUMIDITY CONTROLS AND SENSORS FUNCTIONS PER MANUFACTURERS SPECIFICATIONS. SET TO 50% RH IN THE SPACE.

### CONTROL SEQUENCE OF OPERATIONS

- DAY CYCLE - COOLING**
- SUPPLY AIR FAN SHALL RUN CONTINUOUSLY.
  - OUTSIDE AIR DAMPER SHALL BE IN MINIMUM POSITION.
  - THERMOSTAT SHALL CYCLE COMPRESSOR(S) TO MAINTAIN ROOM SET TEMPERATURE.
- DAY CYCLE - HEATING**
- SUPPLY AIR FAN SHALL RUN CONTINUOUSLY.
  - OUTSIDE AIR DAMPER SHALL BE IN MINIMUM POSITION.
  - THERMOSTAT SHALL CYCLE ELECTRIC HEATER TO ACHIEVE ROOM SET TEMPERATURE.
- DAY CYCLE - DEHUMIDIFICATION (APPLIES TO UNITS WITH THIS OPTION)**
- SUPPLY AIR FANS SHALL RUN CONTINUOUSLY.
  - MECHANICAL OUTSIDE AIR DAMPERS SHALL BE IN OPEN POSITION.
  - RESTROOM EXHAUST FANS SHALL BE ENERGIZED.
  - HUMIDISTAT SHALL CYCLE COOLING COIL STAGES TO MAINTAIN SET POINT HUMIDITY.
- ECONOMIZER**
- SUPPLY AIR FAN SHALL RUN CONTINUOUSLY.
  - OUTSIDE AIR DAMPER SHALL MODULATE FROM MINIMUM TO 100% OUTSIDE AIR TO MAINTAIN ROOM SET TEMPERATURE.
- MORNING WARM-UP**
- SUPPLY AIR FAN SHALL RUN CONTINUOUSLY.
  - OUTSIDE AIR DAMPER SHALL BE IN CLOSED POSITION.
  - WHEN SET TEMPERATURE IS REACHED COOLING OR HEATING CYCLE SHALL COMMENCE.
- NIGHT SETBACK**
- OUTSIDE AIR DAMPER SHALL BE IN CLOSED POSITION.
  - THERMOSTAT SHALL CYCLE EITHER COOLING OR HEATING AND SUPPLY AIR FAN TO MAINTAIN ROOM SET TEMPERATURE.
- SMOKE DETECTOR**
- WHEN SMOKE DETECTOR IS ACTIVATED SUPPLY AIR FAN SHALL SHUTDOWN.
  - SUPPLY AIR FAN SHALL BE MANUALLY RESET.

### EXISTING PACKAGED ROOF TOP UNIT SCHEDULE

TAG	NEW OR EXISTING	SERVICE	MANUFACTURER/MODEL	SUPPLY AIR (CFM)	ESP (IN WC)	OUTSIDE AIR FLOW (CFM)	HEATING		COOLING	EFFICIENCY	ELECTRICAL			DIMENSIONS x W' x H'	L'	WEIGHT (LBS)	NOTES
							INPUT CAPACITY (MBH)	OUTPUT CAPACITY (MBH)			TOTAL CAPACITY (MBH)	SEER/VEER	MCA (AMPS)				
RTU-1,2,3,4	EXISTING	DINING/KITCHEN	YORK/ZF078	2600	-	400	180	-	78	11.2	-	-	208V/3Ø	-	-	-	1-2

- NOTES:
- PROVIDE NEW HONEYWELL VISION PRO 8000 7-DAY PROGRAMMABLE THERMOSTAT. INSTALL CONTROL THERMOSTATS IN MANAGER'S AREA IN BACK OF HOUSE WITH TEMPERATURE SENSOR/ HUMIDITY SENSOR H7365A IN EACH ZONE.
  - RELOCATE EXISTING TSTAT.
- NOTE: ALL HVAC UNITS AND REQUIRE INTERLINKING FOR FAN SHUTDOWN UPON ACTIVATION OF SPRINKLER FLOW SWITCH OR GLOBAL ALARM. UNITS OVER 2000 CFM REQUIRE DUCT SMOKE DETECTION ON RETURN AND SUPPLY SIDE PER 2002 NFPA 90A. CONTRACTOR SHALL FIELD VERIFY AND COORDINATE ALL REQUIREMENTS PRIOR TO BID.
- NOTE: G.C. SHALL VERIFY EXACT ELECTRICAL CONNECTIONS, WIRE SIZES, BREAKERS, DISCONNECT, ETC. PRIOR TO ORDERING. VERIFY ALL CONTROLS WITH HONEYWELL REP PRIOR TO ORDERING.

### VENTILATION CALCULATIONS

ROOM NUMBER & NAME	AREA (SF)	# OF PEOPLE	REQ'D OA CFM/PERSON	REQ'D OA CFM/SF	ZONE EFFECTIVENESS	TOTAL OA
101 DINING ROOM	1450	80	7.5	0.18	0.8	1076
102 PIZZA ENGINE	550	4	7.5	0.12	0.8	120
103 KITCHEN	400	2	7.5	0.12	0.8	79
REQUIRED OUTSIDE AIR						1275
PROVIDED OUTSIDE AIR						1300

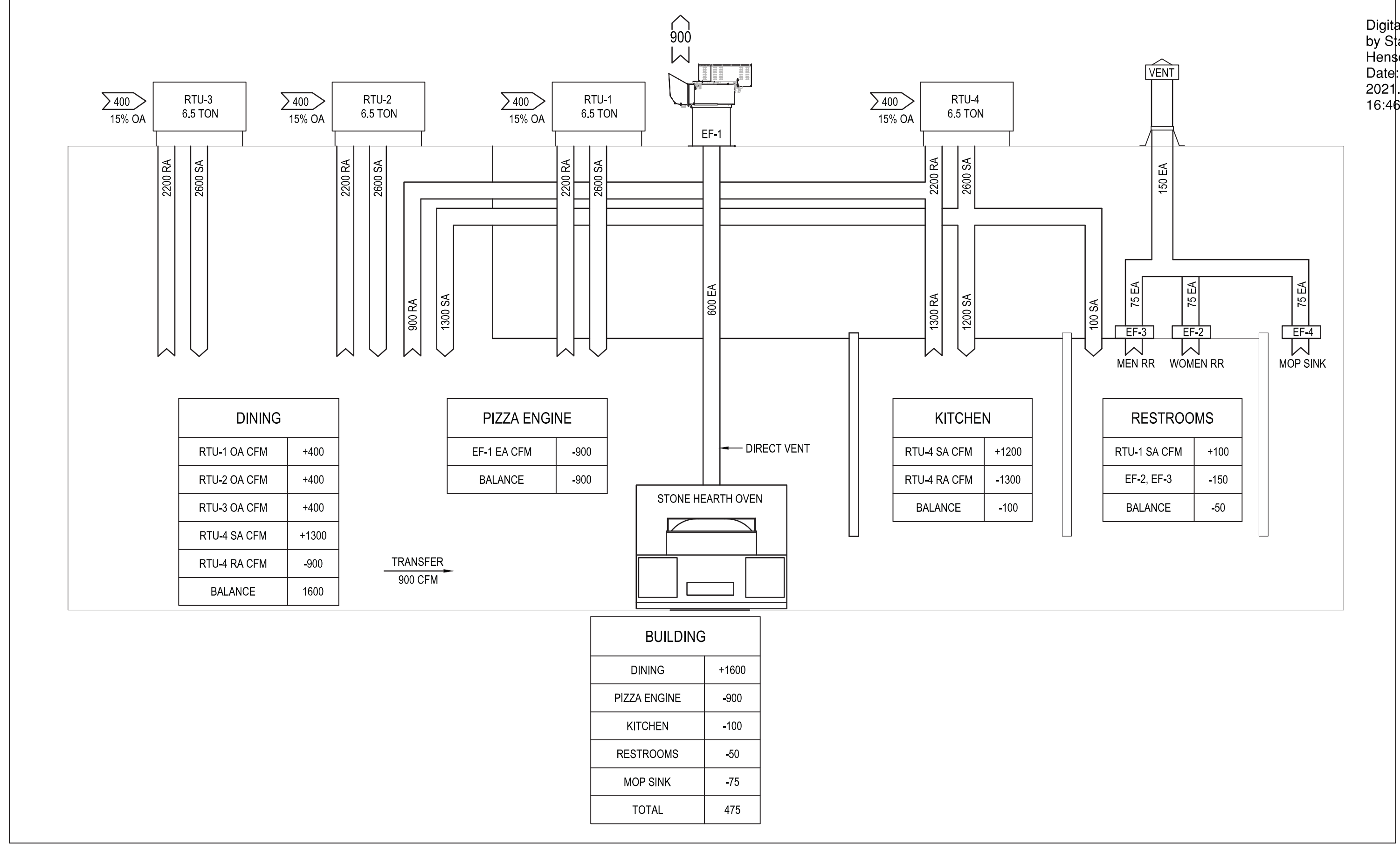
NOTE: 1. ESTIMATED MAXIMUM OCCUPANCY AND REQUIRED OUTSIDE AIR IS BASED ON CURRENT EDITION INTERNATIONAL MECHANICAL CODE.

### FAN SCHEDULE

TAG	MODEL	DESCRIPTION	LOCATION	CFM	ESP	HP	RPM	FLA	V/PH/Hz	WEIGHT	NOTES
EF-1	CAPTIVEAIRE CASRE138D	PIZZA HOOD EXHAUST	ROOF	900	.2	0.5	792	7.6	115/1/60	276	A,B,C,D,E
EF-2	COOK GC-146	WOMEN'S RR	CEILING	75	.375	33.1W	900	-	120/1/60	12	F,G
EF-3	COOK GC-146	MEN'S RR	CEILING	75	.375	33.1W	900	-	120/1/60	12	F,G
EF-4	COOK GC-146	MOP SINK	CEILING	75	.375	33.1W	900	-	120/1/60	12	F,G

- NOTES:
- GREASE EXHAUST FAN AND ACCESSORIES TO BE FURNISHED THRU CAPTIVEAIRE, INSTALLED BY MECHANICAL CONTRACTOR.
  - PROVIDE WITH VENTED ROOF CURB, HINGED BASE CHAIN AND HASP KIT AND BUILT-IN GREASE TROUGH DRAIN FITTING.
  - PROVIDE DISCONNECT SWITCH.
  - PROVIDE WITH HOOD ON/OFF TOGGLE SWITCH.
  - PROVIDE PRE FABRICATED CURB FROM CAPTIVEAIRE.
  - EXHAUST DUCT SHALL BE GALVANIZED STEEL. PROVIDE RAIN CAP WITH INTEGRAL BIRD SCREEN, BACKDRAFT DAMPER, AND ACCESSORIES AS REQUIRED INCLUDING SPEED CONTROLLER CONCEALED AND ACCESSIBLE. EXHAUST FAN SHALL MAINTAIN 10' CLEARANCE FOR ANY OUTSIDE AIR INTAKE. ALL ROOF WORK SHALL BE DONE BY LANDLORD'S ROOFING CONTRACTOR AT TENANT'S EXPENSE UNLESS NOTED OTHERWISE.
  - PROVIDE EXHAUST FANS WITH PROGRAMMABLE TIMER TO OPERATE DURING BUSINESS HOURS.
- NOTE: EXHAUST FAN EF-1 FURNISHED WITHIN CAPTIVEAIRE SYSTEMS PACKAGE TO BE PROCURED BY MECHANICAL CONTRACTOR THROUGH CAPTIVEAIRE SYSTEMS REGION 85 ONLY (JON CLARKE, 425-212-5966 EXT. 2) AND INSTALLED BY MECHANICAL CONTRACTOR. SEE H-C-SERIES SHEETS FOR ADDITIONAL INFO.

### BUILDING PRESSURE DIAGRAM





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ARCH COA #2015008774 ENG COA #2005026904

ARCHITECTURE ENGINEERING PERMITTING

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CONSULTANT



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Table with 2 columns: ISSUED / REVISED, DATE. Includes entries for BUILDING COMMENTS and DESIGN UPGRADES.

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P-001 PLUMBING LEGEND AND GENERAL NOTES

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PLUMBING SHEET INDEX table with columns: Sheet ID, Description. Includes P-001, P-101, P-111, P-121, P-501, P-502, P-601.

FIELD VERIFY ALL CONDITIONS

NOTE! AS NOTED IN THE SPECIFICATIONS, ALL WIRING LAYOUTS, PIPING LAYOUTS AND DUCT LAYOUTS ARE SCHEMATIC. EXACT LOCATIONS SHALL BE DETERMINED BY THE CONSTRUCTION AND STRUCTURE OF THE BUILDING AND SHALL BE VERIFIED AND COORDINATED IN THE FIELD...

THE CONTRACTOR SHALL CONTACT THE ARCHITECT, ENGINEER OR OWNER PRIOR TO BIDDING FOR INTERPRETATIONS AND CLARIFICATIONS OF THE DESIGN AND INCLUDE IN HIS BID ALL COSTS TO MEET THE DESIGN INTENT...

BIDDING CONTRACTORS SHALL HAVE A WORKING KNOWLEDGE OF LOCAL CODES AND ORDINANCES AND SHALL INCLUDE IN THEIR BIDS THE COSTS FOR ALL WORK INSTALLED IN STRICT ACCORDANCE WITH GOVERNING CODES...

- GENERAL: PLUMBING: 1. DOMESTIC WATER TUBE, PIPE, FITTINGS, JOINING MATERIALS, SPECIALTIES, PLUMBING EQUIPMENT... 2. PROVIDE WATER HAMMER ARRESTORS IN DOMESTIC WATER PIPING... 3. PROVIDE LINE SIZE STRAINER UPSTREAM OF EACH BACKFLOW PREVENTER...

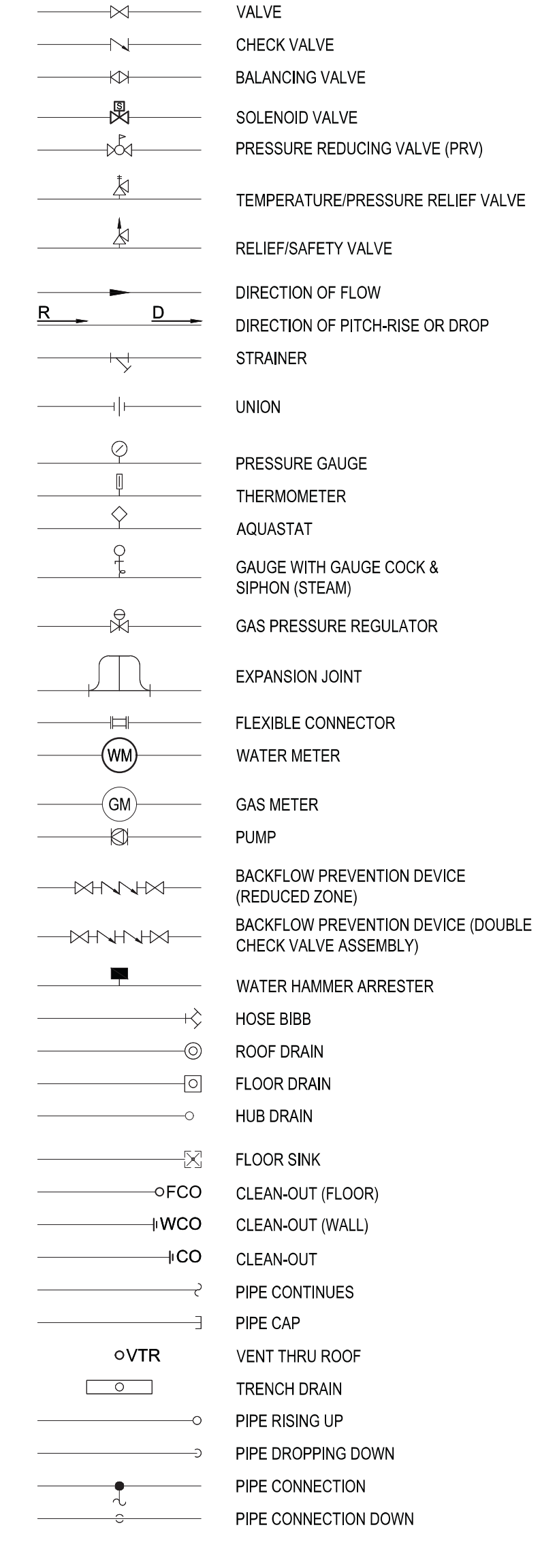
SANITARY PLAN NOTES:

- 1. THE INSTALLATION OF THE PLUMBING SYSTEMS SHALL BE COORDINATED WITH ALL ELECTRICAL AND MECHANICAL EQUIPMENT... 2. REFER TO PLUMBING SHEET P-601 FOR PLUMBING FIXTURE AND EQUIPMENT SCHEDULES... 3. PLUMBING CONTRACTOR SHALL BE RESPONSIBLE FOR THE COMPLETE INSTALLATION OF ALL DRAIN LINES FROM KITCHEN EQUIPMENT...

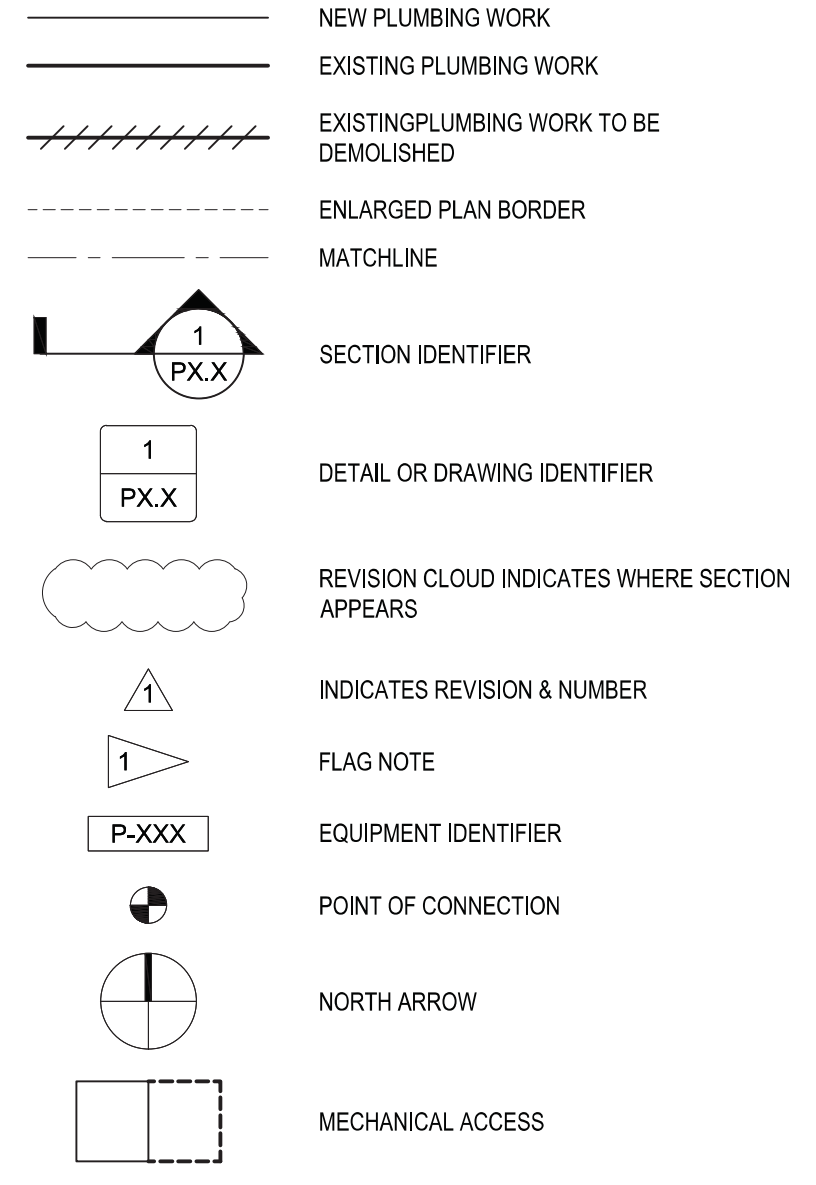
GENERAL NOTES

- 1. COORDINATE MECHANICAL WORK WITH ELECTRICAL, ARCHITECTURAL, STRUCTURAL, CIVIL AND LANDSCAPE WORK SHOWN ON OTHER CONTRACT DOCUMENTS... 2. COORDINATE HVAC, PLUMBING AND FIRE PROTECTION WORK PRIOR TO INSTALLATION... 3. WHERE USED, THE TERM 'PROVIDE' SHALL MEAN 'FURNISH AND INSTALL'...

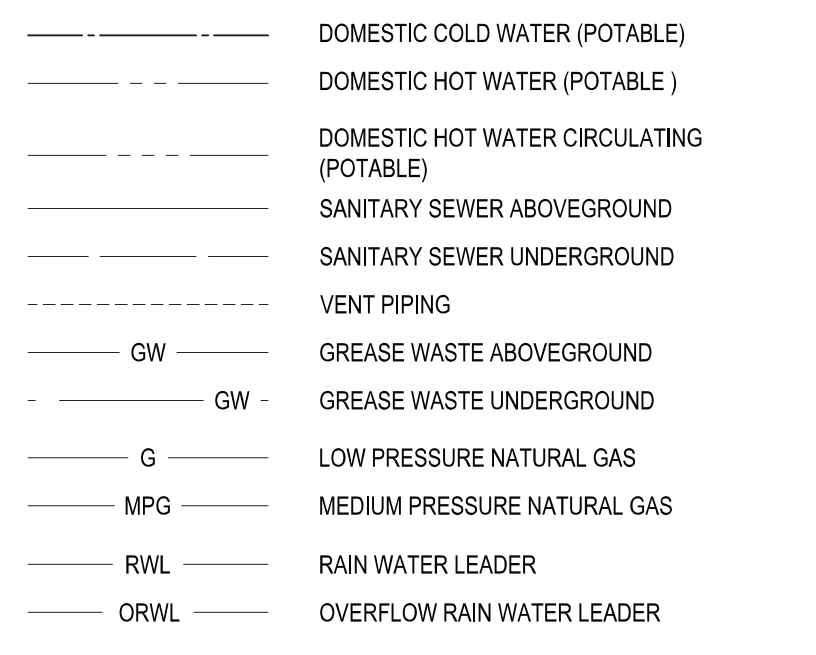
PIPING ELEMENTS/VALVING



REFERENCE SYMBOLS

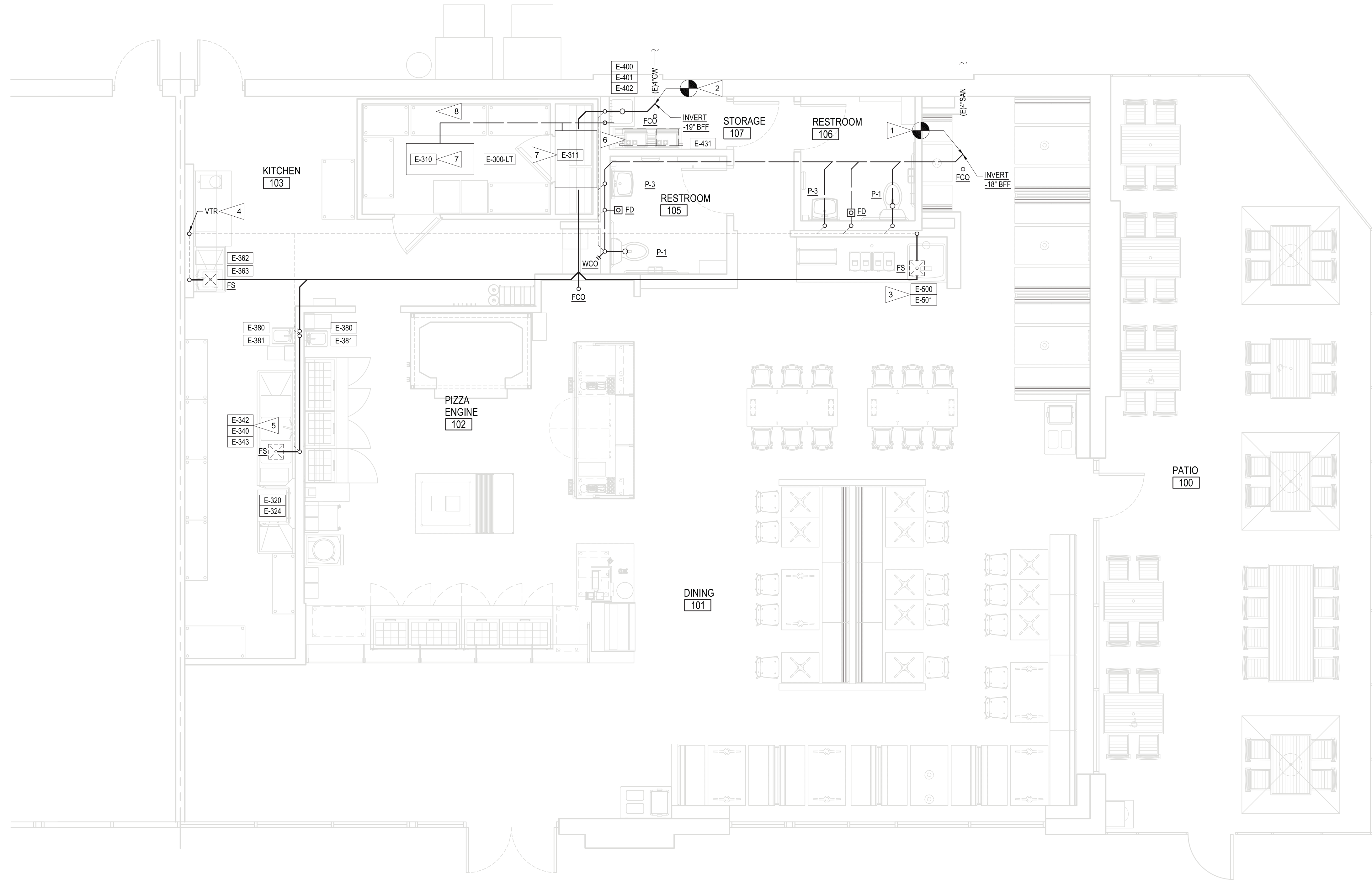


PLUMBING LINE DESIGNATION SYMBOLS

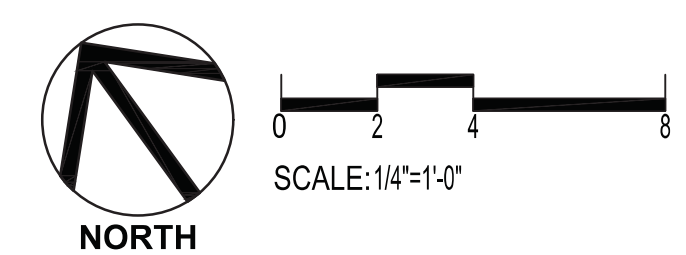


F, E, D, C, B, A

- # KEYED NOTES
1. FIELD LOCATE AND CONNECT TO EXISTING 4" SANITARY LINE. CONTRACTOR TO FIELD VERIFY EXACT LOCATION, SIZE, AND INVERT PRIOR TO BID & CONSTRUCTION.
  2. FIELD LOCATE AND CONNECT TO EXISTING 4" GREASE LINE. CONTRACTOR TO FIELD VERIFY EXACT LOCATION, SIZE, AND INVERT PRIOR TO BID & CONSTRUCTION.
  3. PROVIDE INDIRECT DRAIN FROM ICE BIN TO FLOOR SINK.
  4. PROVIDE NEW 3" VENT THRU ROOF OR CONNECT TO EXISTING VTR. CONTRACTOR TO FIELD VERIFY EXACT LOCATION & SIZE OF EXISTING VENT LINES PRIOR TO BID & CONSTRUCTION.
  5. INSTALL DRAIN PIPING TIGHT TO UNDERSIDE OF SINK AND PROVIDE ADEQUATE PIPING AND FITTINGS SUPPORT AND/OR BRACING.
  6. PROVIDE NEW GAS INSTANTANEOUS WATER HEATERS. ROUTE T&P DRAIN LINES FROM WATER HEATERS TO MOP SINK WITH AIR GAP.
  7. INSTALL HARD PIPE FOR WALK IN REFRIGERATOR AND FREEZER CONDENSERS. ROUTE TO HUB DRAIN.
  8. PROVIDE HEAT TRACE TAPE FOR ALL CONDENSATE PIPING WITHIN FREEZER. BASIS OF DESIGN: CHROMALOX MODEL 512129, CPR 5-1CR 5WFT, 120V.



SANITARY WASTE AND VENT PLAN





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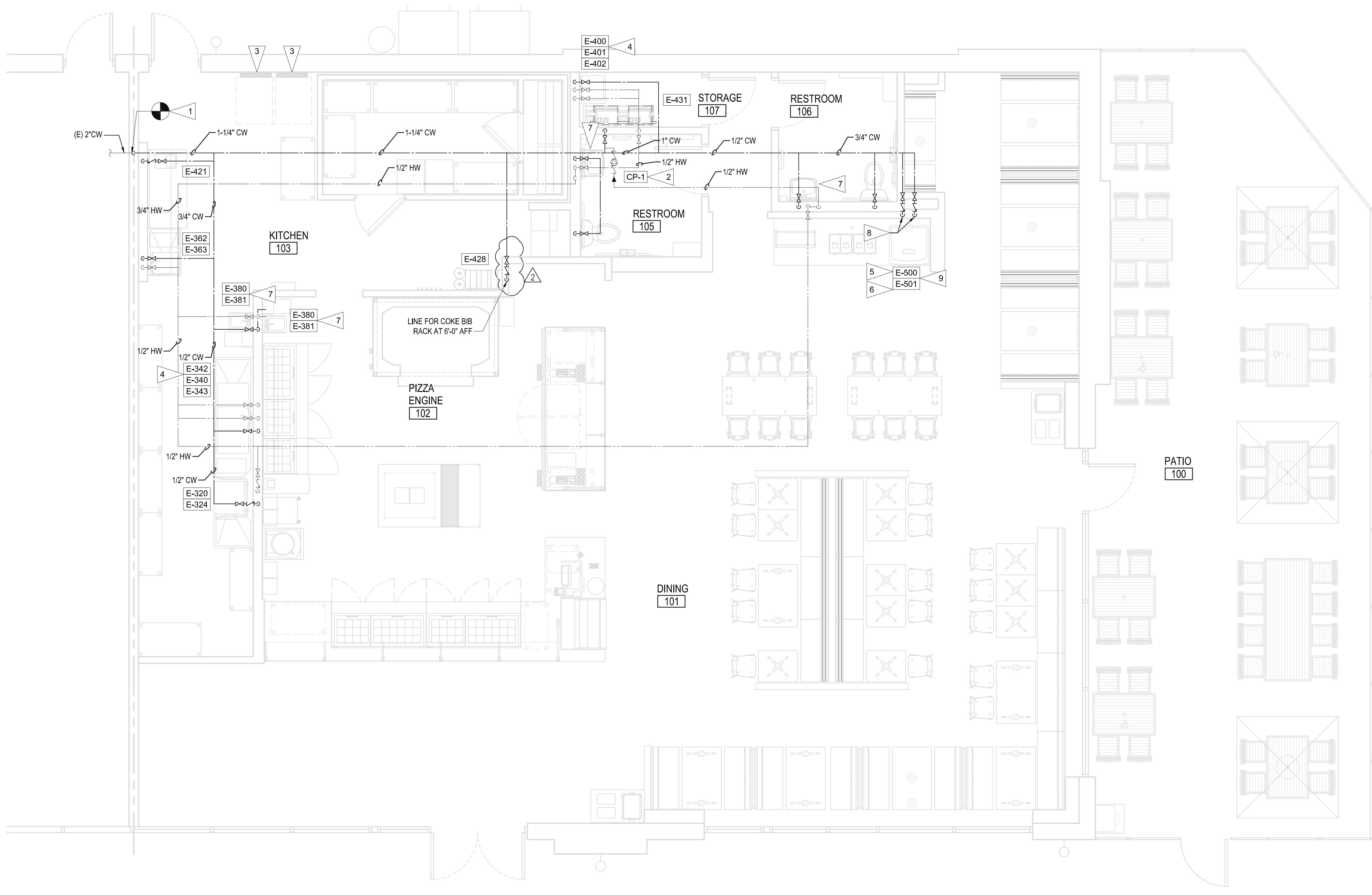
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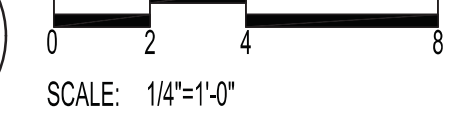
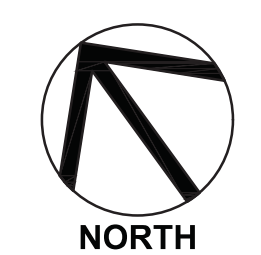
P-111 DOMESTIC WATER PLAN

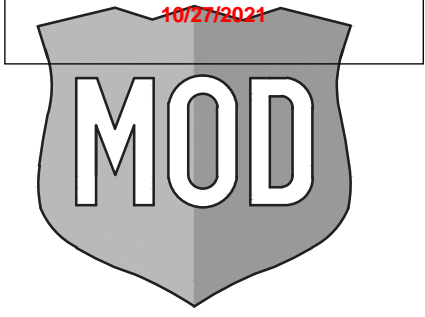
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- # KEYED NOTES
1. FIELD LOCATE AND TIE INTO EXISTING WATER STUB PROVIDED BY LANDLORD WITH A 2" WATER LINE. GC TO PROVIDE AND COORDINATE FINAL LOCATION OF GATE VALVE, WATER SUBMETER, AND REMOTE READER WITH LANDLORD AND TENANT.
  2. PROVIDE INLINE HOT WATER RECIRCULATION PUMP WITH CHECK VALVES ON BOTH SIDES OF PUMP.
  3. NO NEW PIPING SHALL BE INSTALLED ABOVE THE PROPOSED LOCATION OF INTERIOR ELECTRICAL PANEL(S).
  4. PROVIDE ADDITIONAL 1/2" HW SUPPLY WITH SUPPLY STOP FOR FUTURE VENDOR CONNECTION.
  5. WATER SUPPLY FOR SODA AND ICE MACHINES TO BE LOCATED BELOW COUNTER.
  6. PROVIDE REDUCED PRESSURE ZONE ASSEMBLY AT SODA MACHINE.
  7. ROUTE 1/2" HW & CW TO HAND WASHING FIXTURE. INSTALL SUPPLIES COMPLETE WITH HOT WATER MIXING VALVE.
  8. PROVIDE 1/2" WATER SUPPLY WITH BFP-2. REFER TO BACKFLOW DEVICE SCHEDULE ON SHEET P-601 FOR MORE INFORMATION.
  9. PROVIDE PENTAIR EVERPURE WATER FILTRATION TO ICE-O-MATIC ICE MACHINE.



DOMESTIC WATER PLAN





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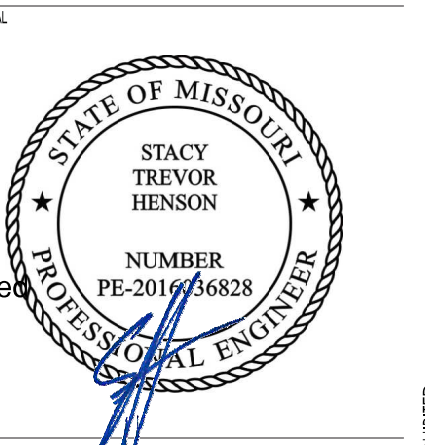
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460 NW CHIPMAN RD  
LEE'S SUMMIT, MO 64086

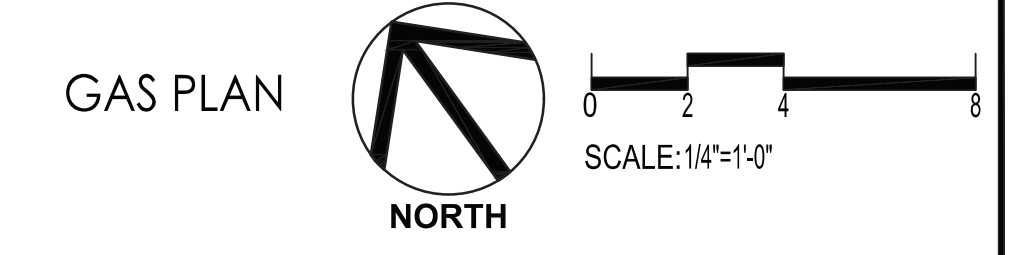
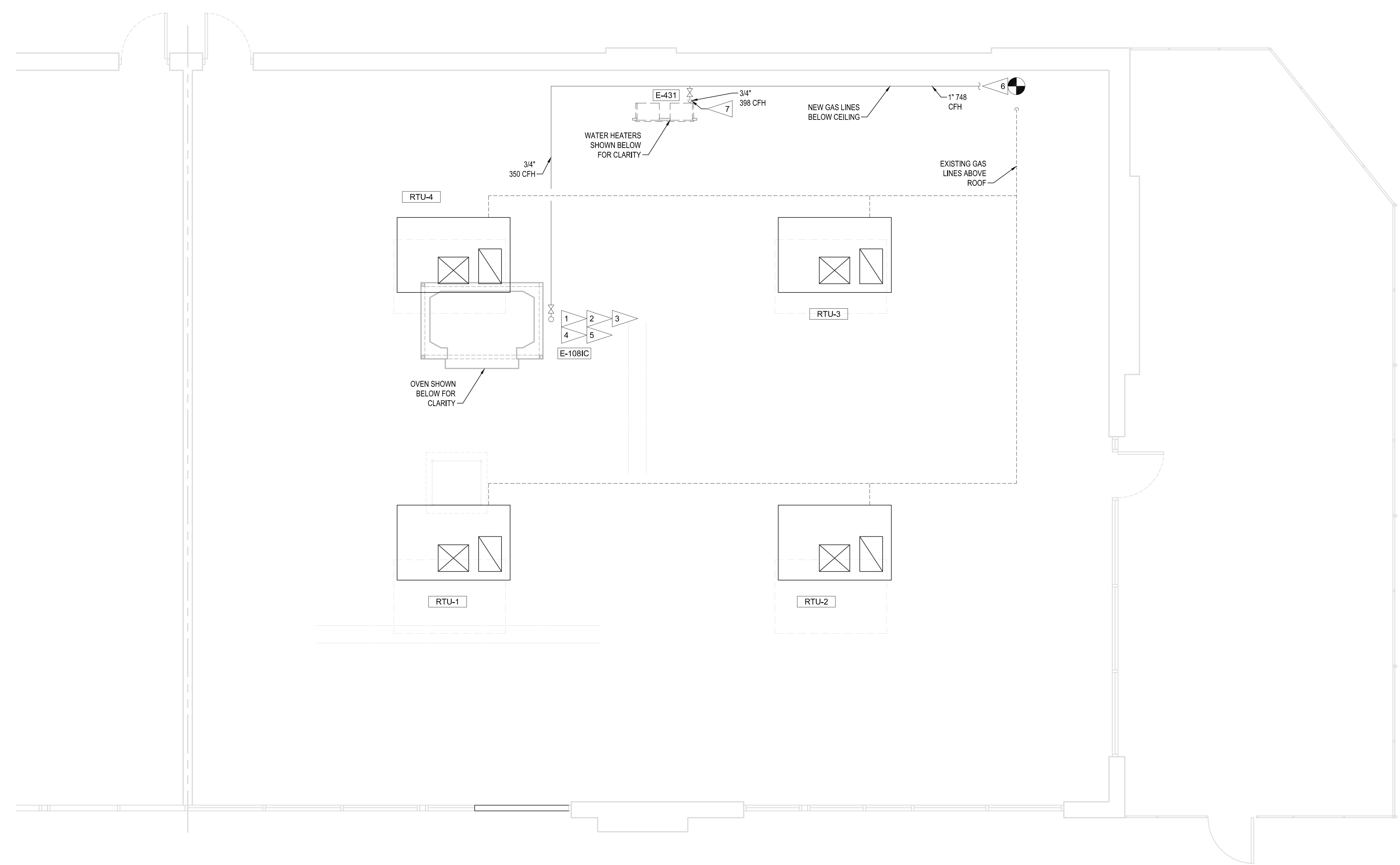
ISSUED / REVISED	DATE
△ BUILDING COMMENTS	10.18.21
△ DESIGN UPGRADES	10.18.21

PERMIT SET 09.20.21

**P-121**  
GAS PLAN

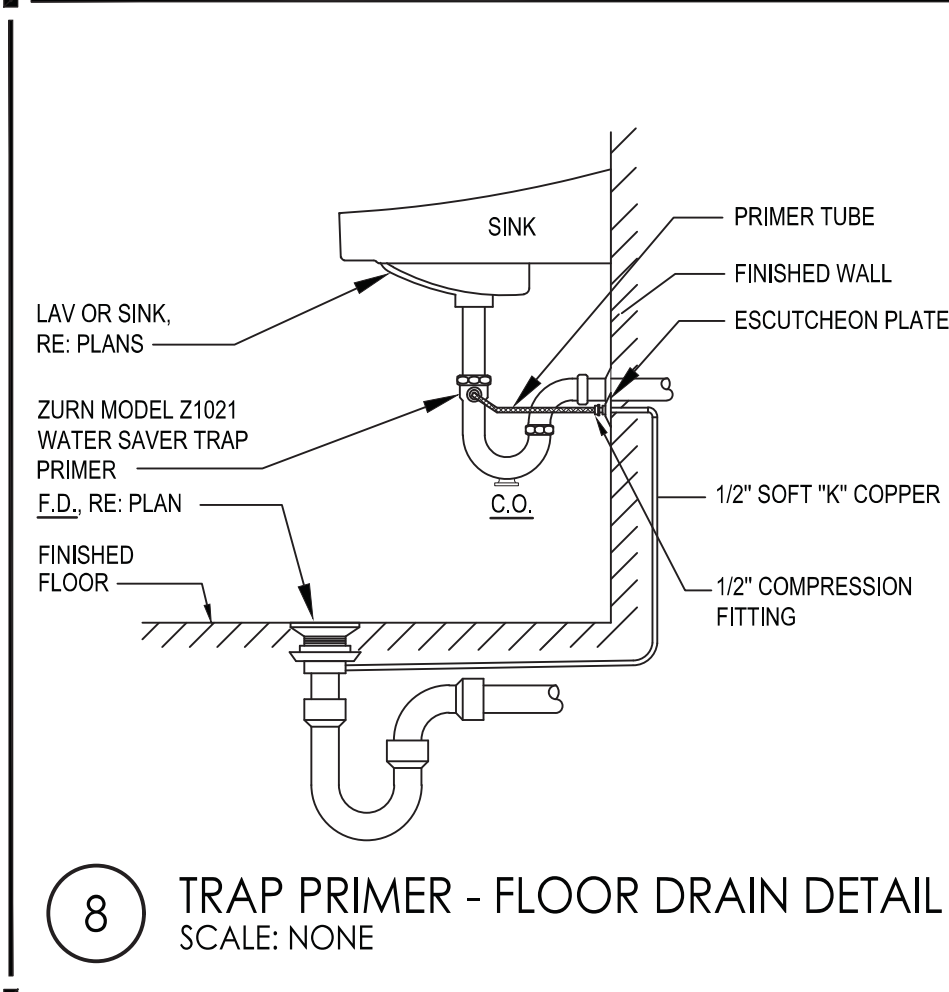
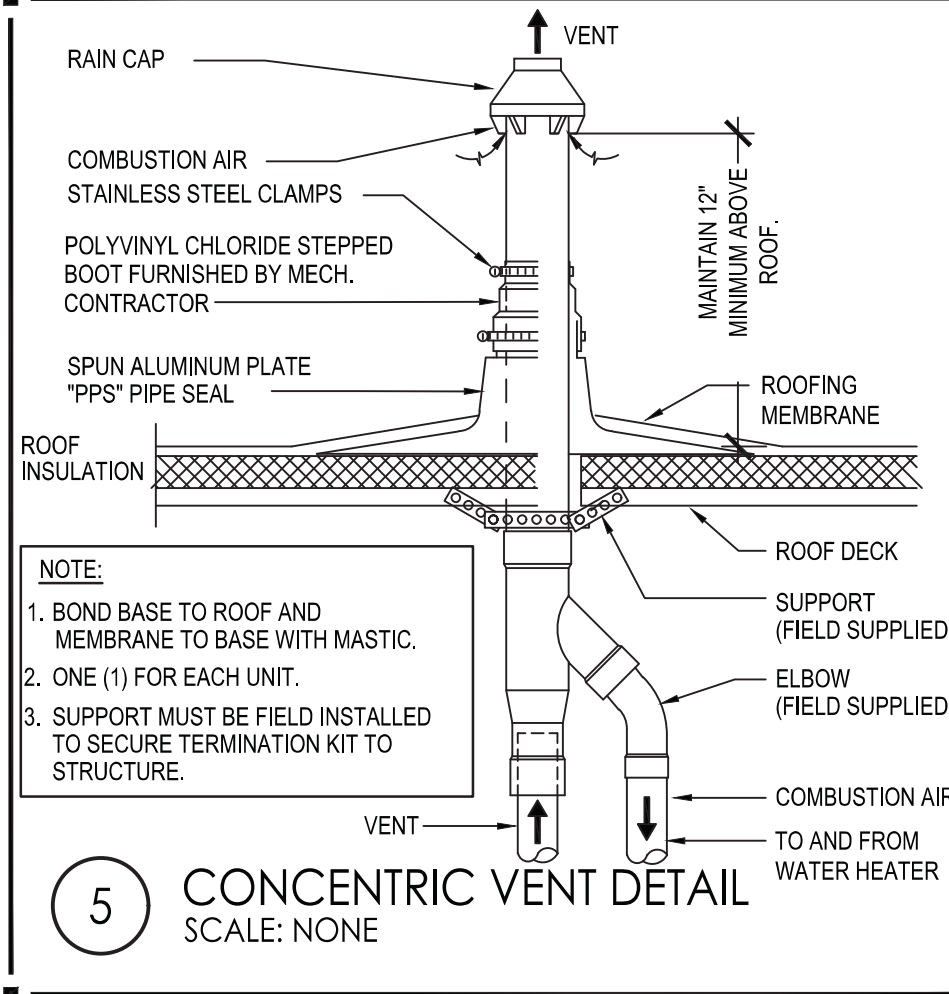
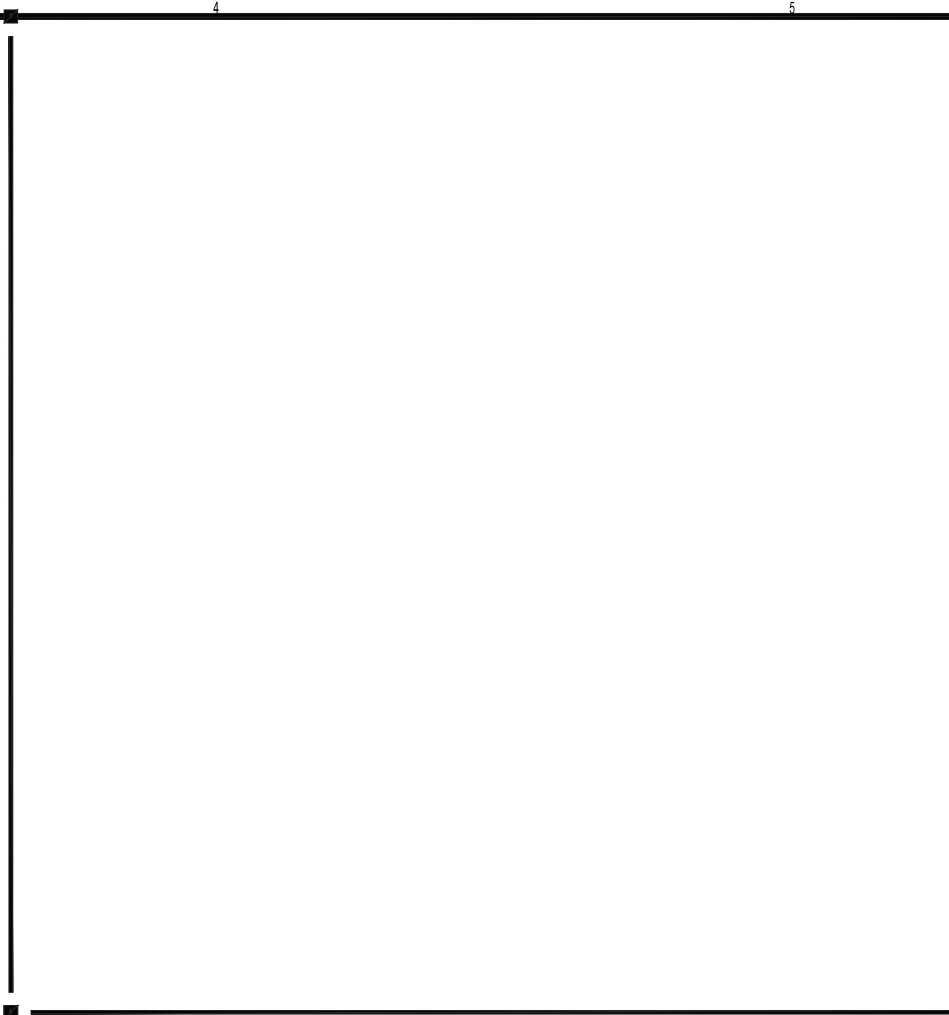
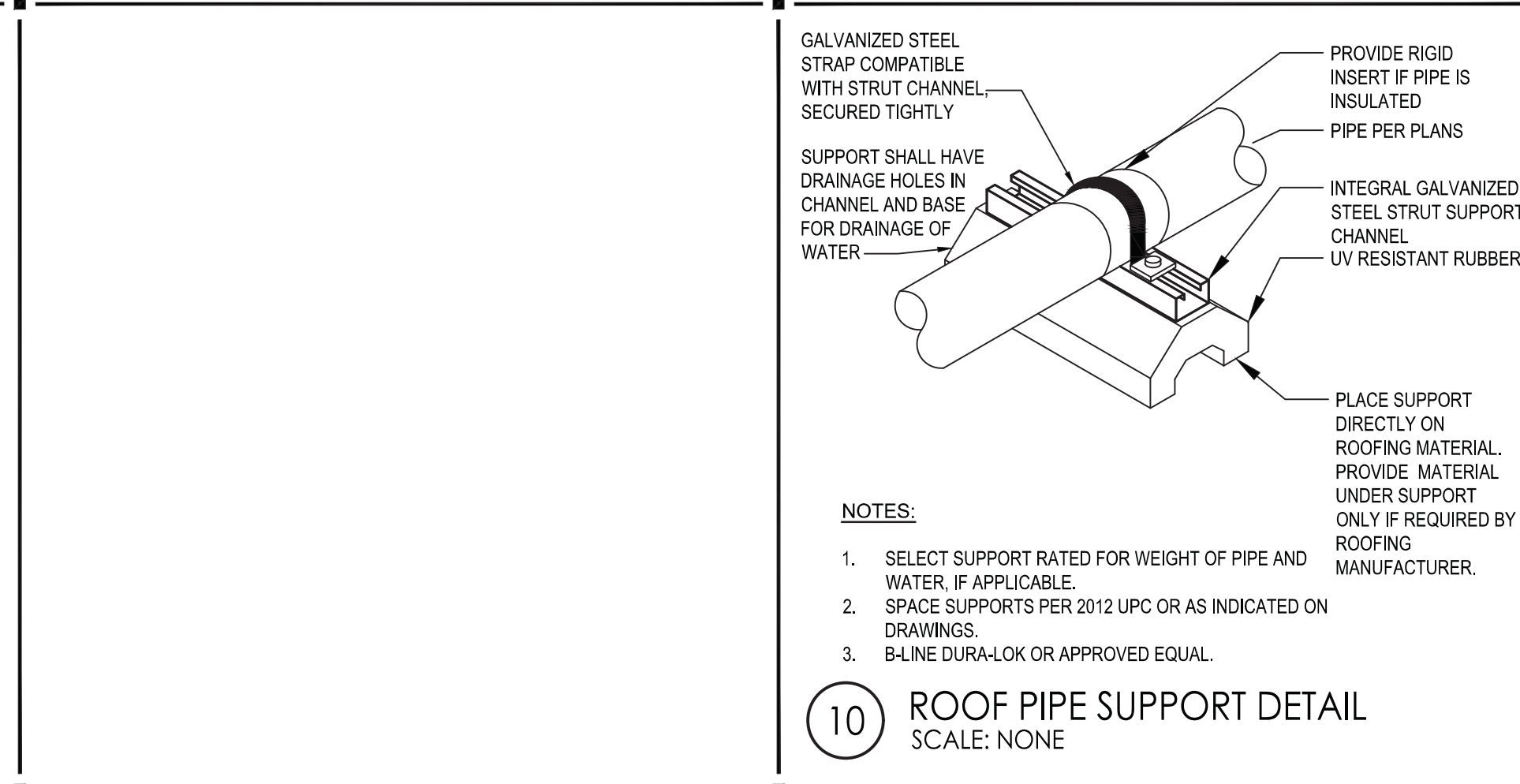
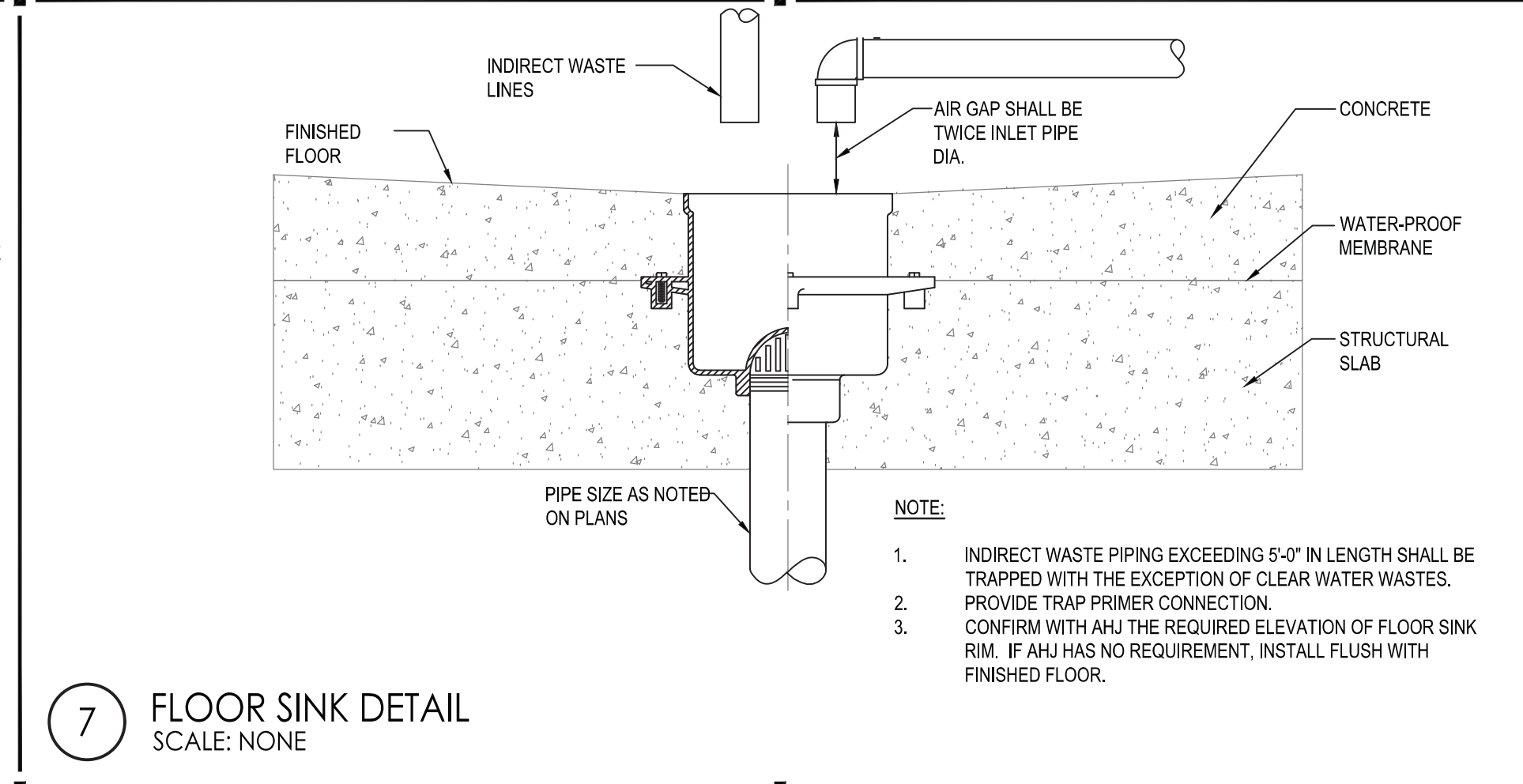
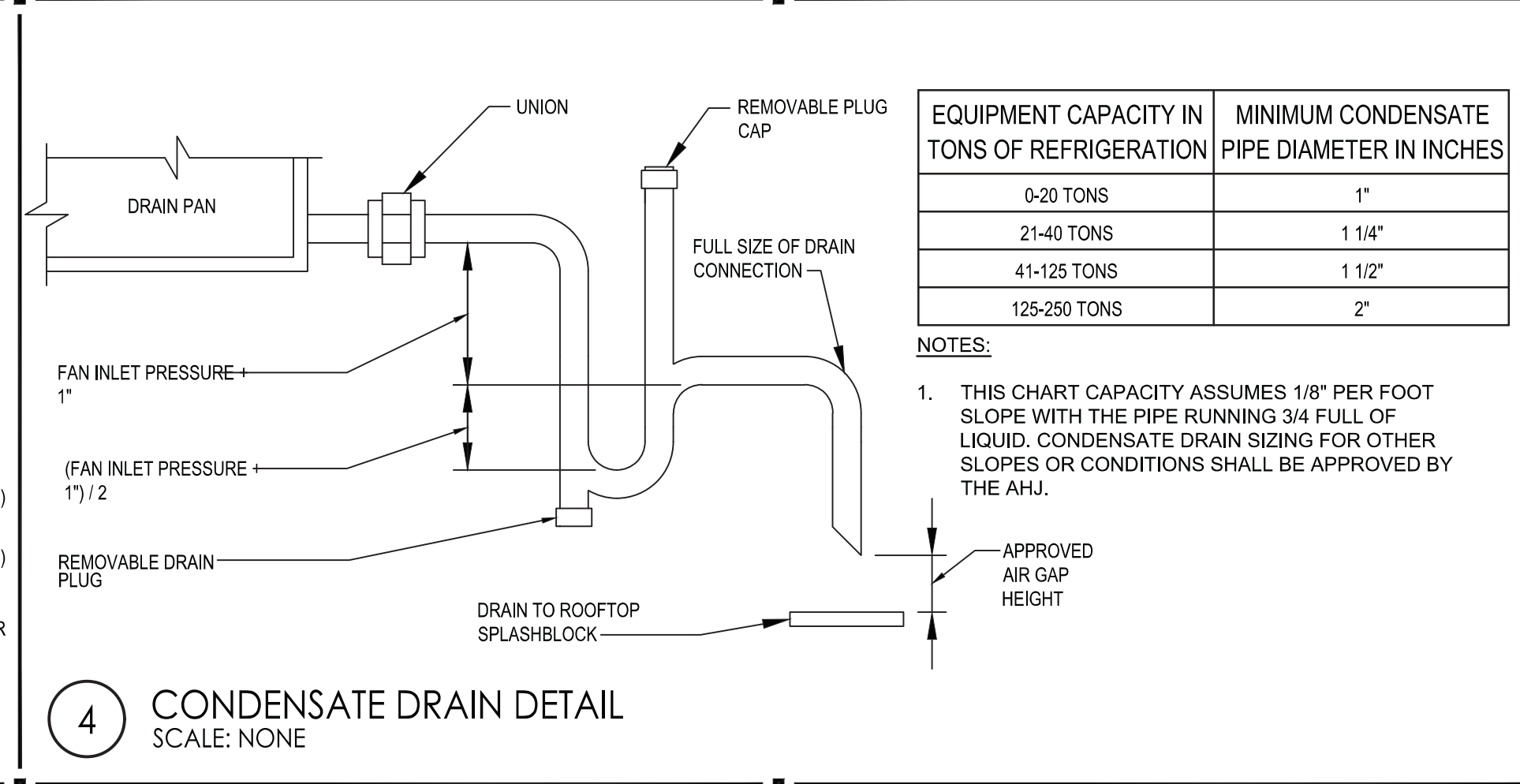
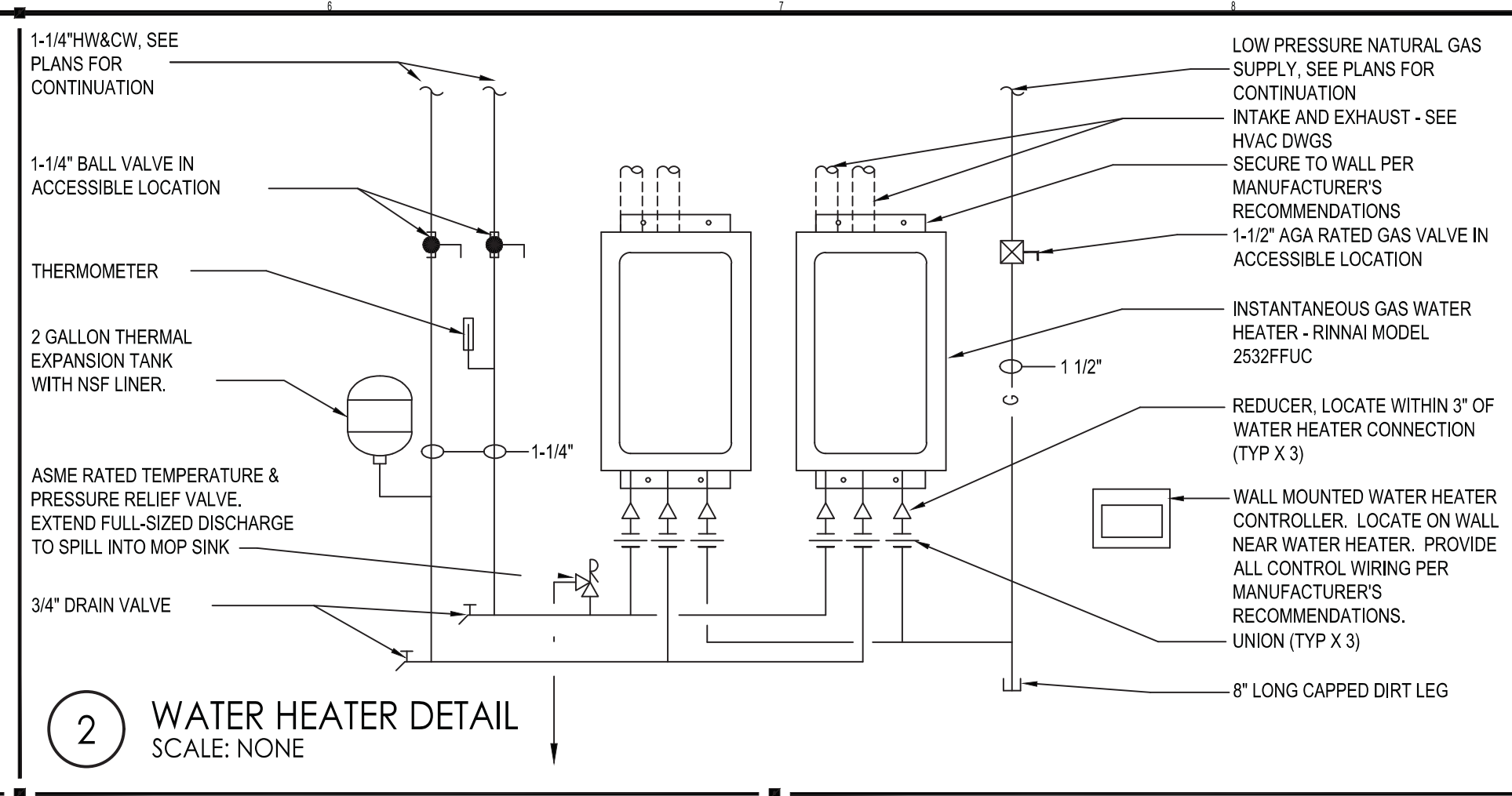
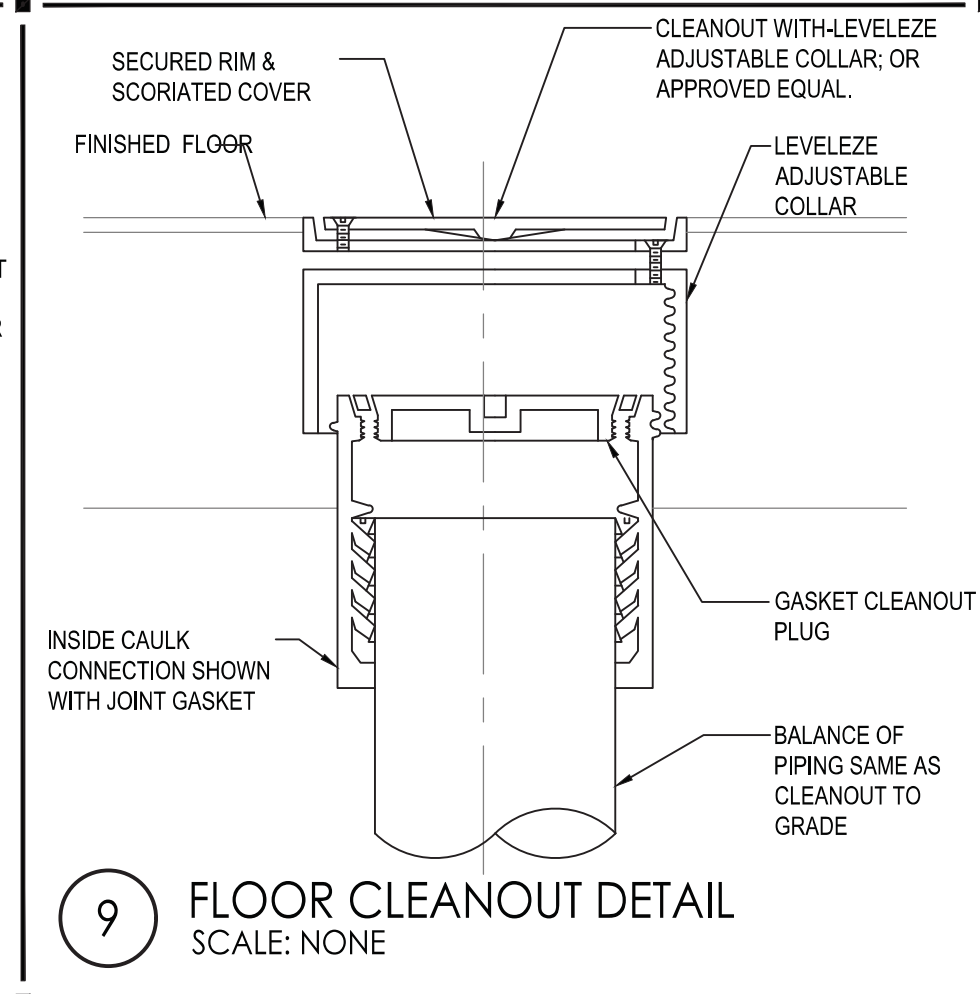
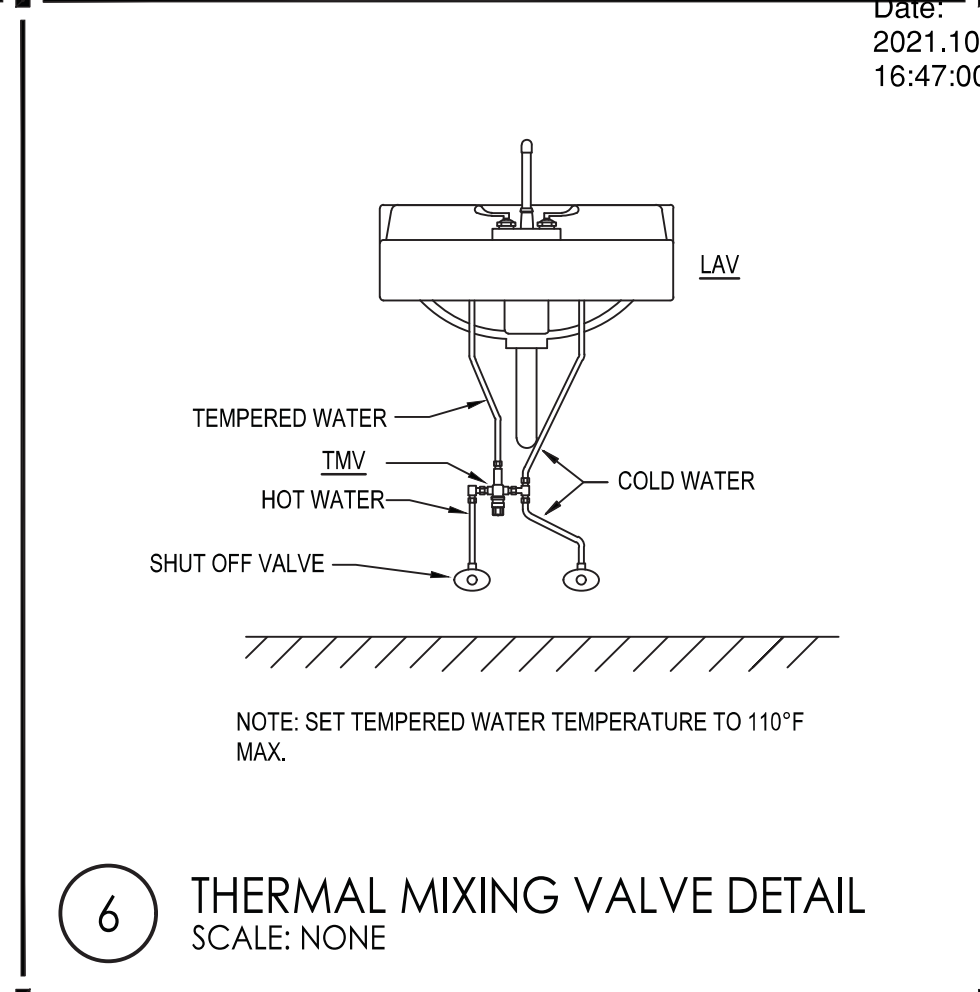
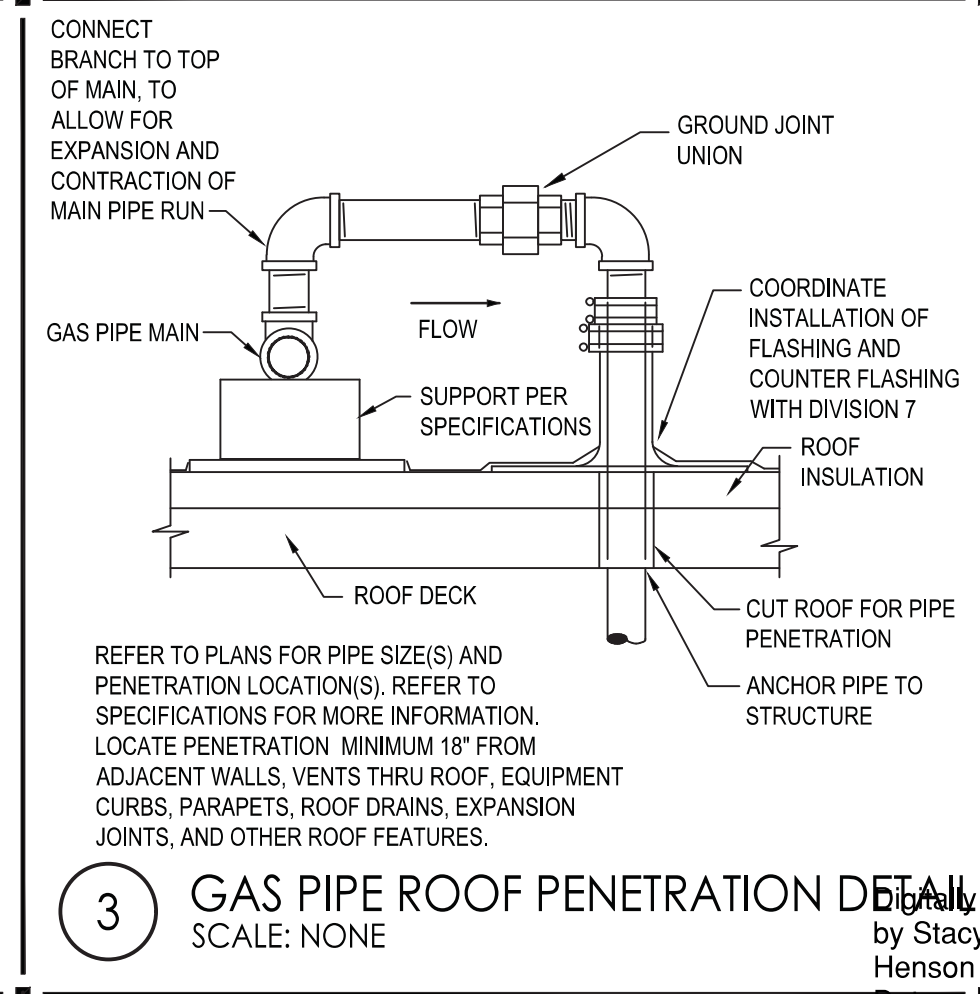
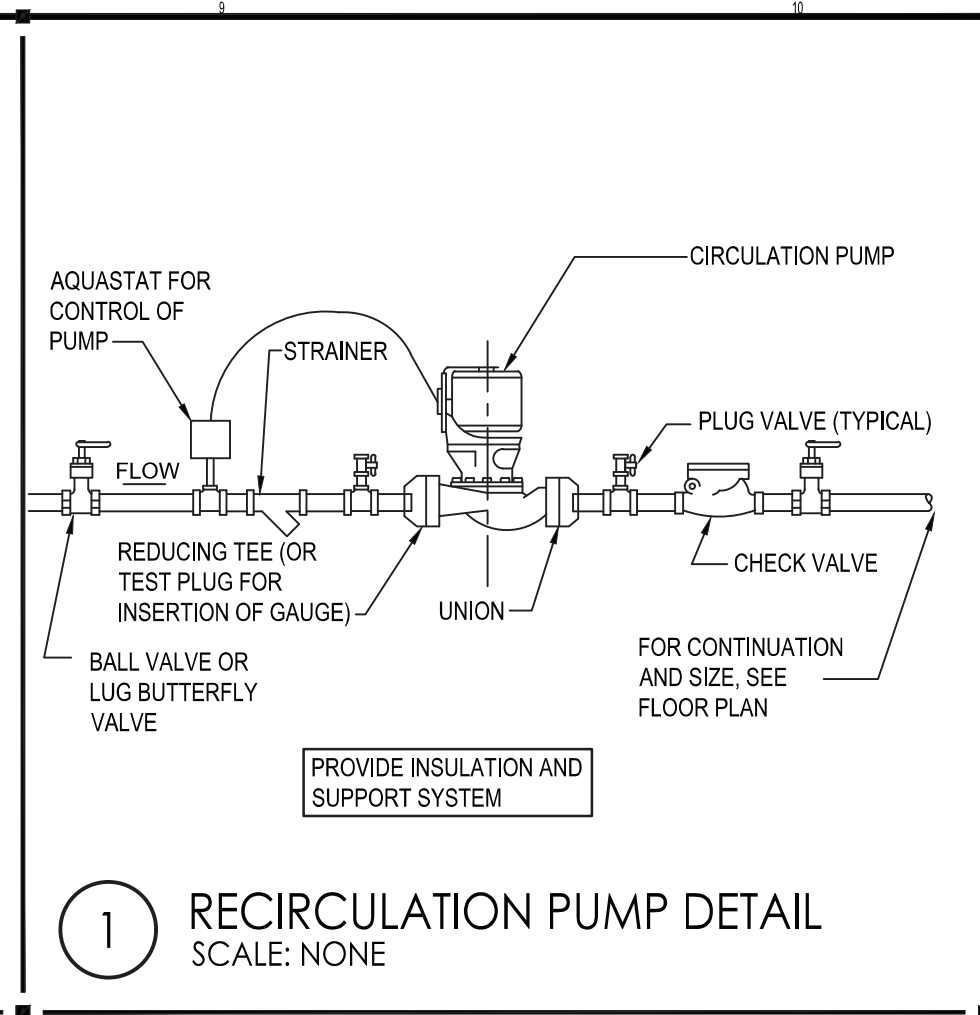
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- # KEYED NOTES
- 3/4" GAS TO PIZZA OVEN (350 MBH).
  - ROUTE GAS LINES IN OVEN ENCLOSURE TO OVEN GAS CONNECTION.
  - OVEN GAS PILOT LIGHT SWITCH IS PRE-WIRED, INCLUDED WITH THE OVEN AND LOCATED ON THE OVEN FACE.
  - INSTALL MECHANICAL SHUT OFF VALVE BY FIRE SUPPRESSION CONTRACTOR IN VERTICAL GAS SUPPLY TO PIZZA OVEN.
  - GAS SOLENOID SHUTOFF VALVE AS PART OF ANSUL SYSTEM.
  - PROVIDE AND CONNECT NEW GAS LINES TO EXISTING GAS LINE. PROVIDE NEW BRANCH TO NEW OVEN AND WATER HEATERS. CONTRACTOR TO FIELD VERIFY EXISTING GAS PRESSURE AND LINE SIZE AND ENSURE ADEQUATE GAS LOAD PRIOR TO BID AND CONSTRUCTION.
  - 3/4" GAS TO WATER HEATER BELOW.



GAS PLAN





2035 158th CT NE  
Suite 200  
Bellevue, WA 98008

ARCHITECT OF RECORD  
**INTERPLAN**  
INTERPLAN LLC  
ARCH COA #2015008774  
ENG COA #2005026904

ARCHITECTURE  
ENGINEERING  
PERMITTING

220 E. CENTRAL PKWY, STE 4000  
ALTAMONTE SPRINGS, FL 32701  
407.645.5008  
PROJECT NO. 2021.0524

CONSULTANT

SEAL



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Date: 2021.10.21 16:47:01 -04'00'

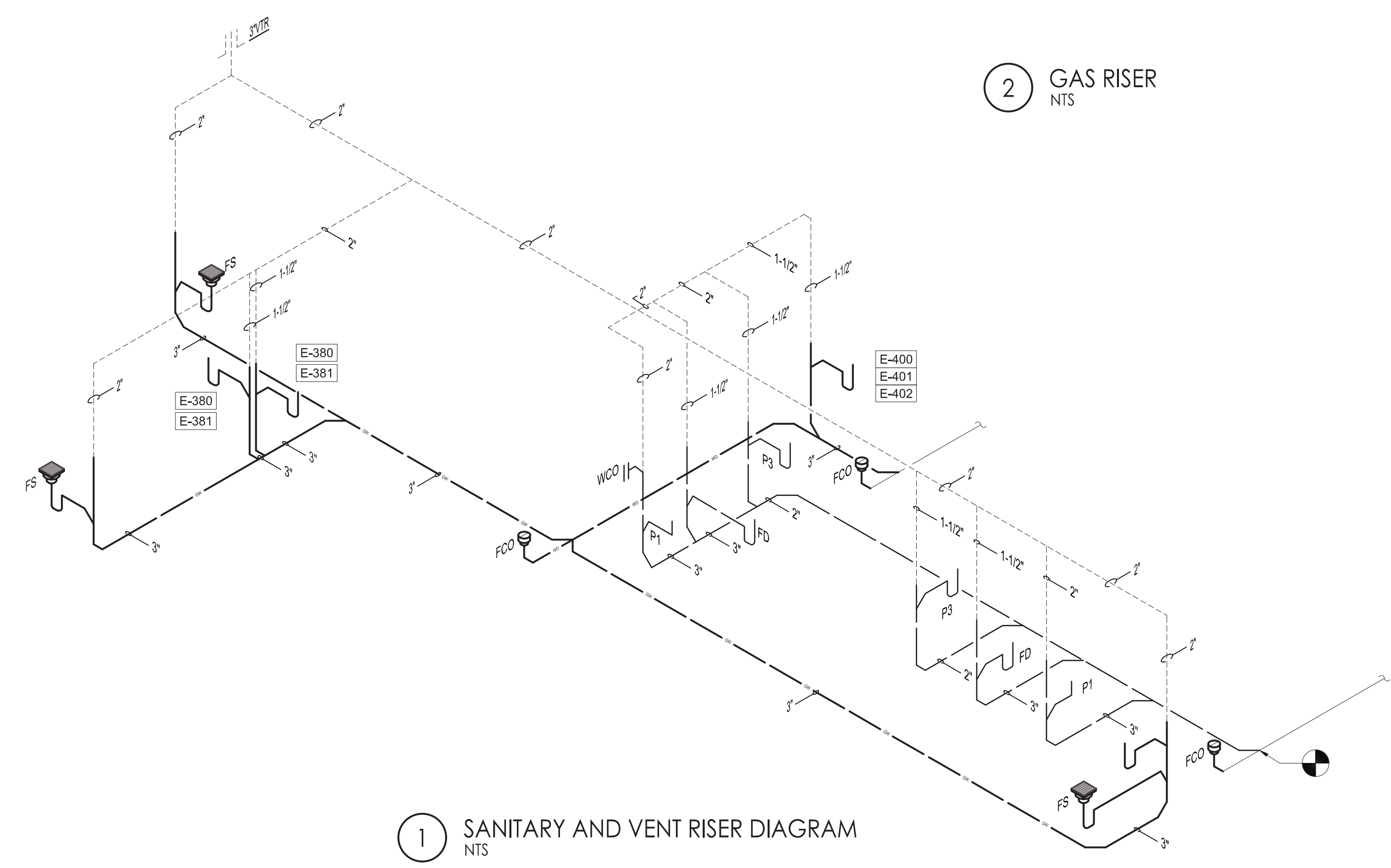
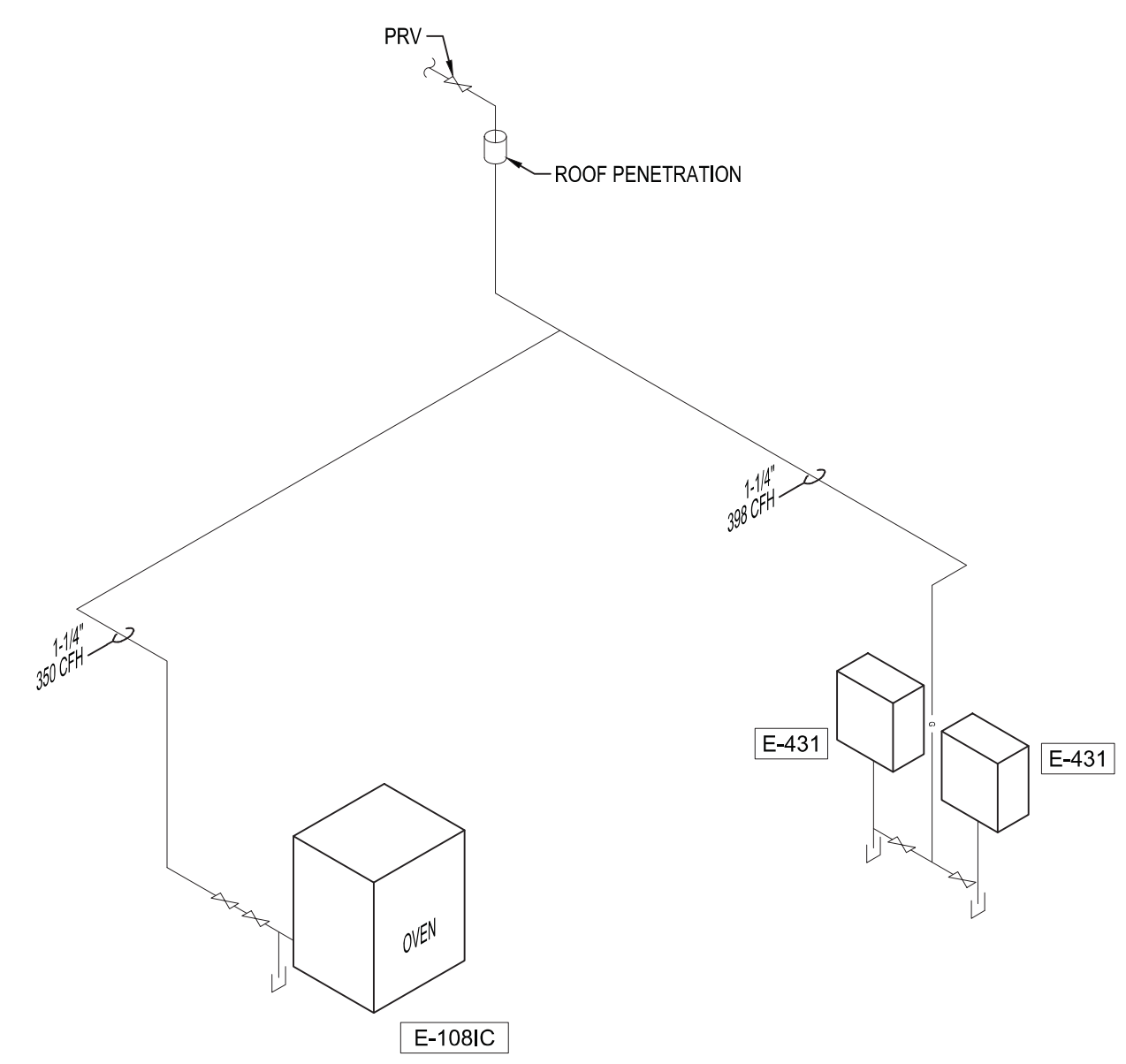
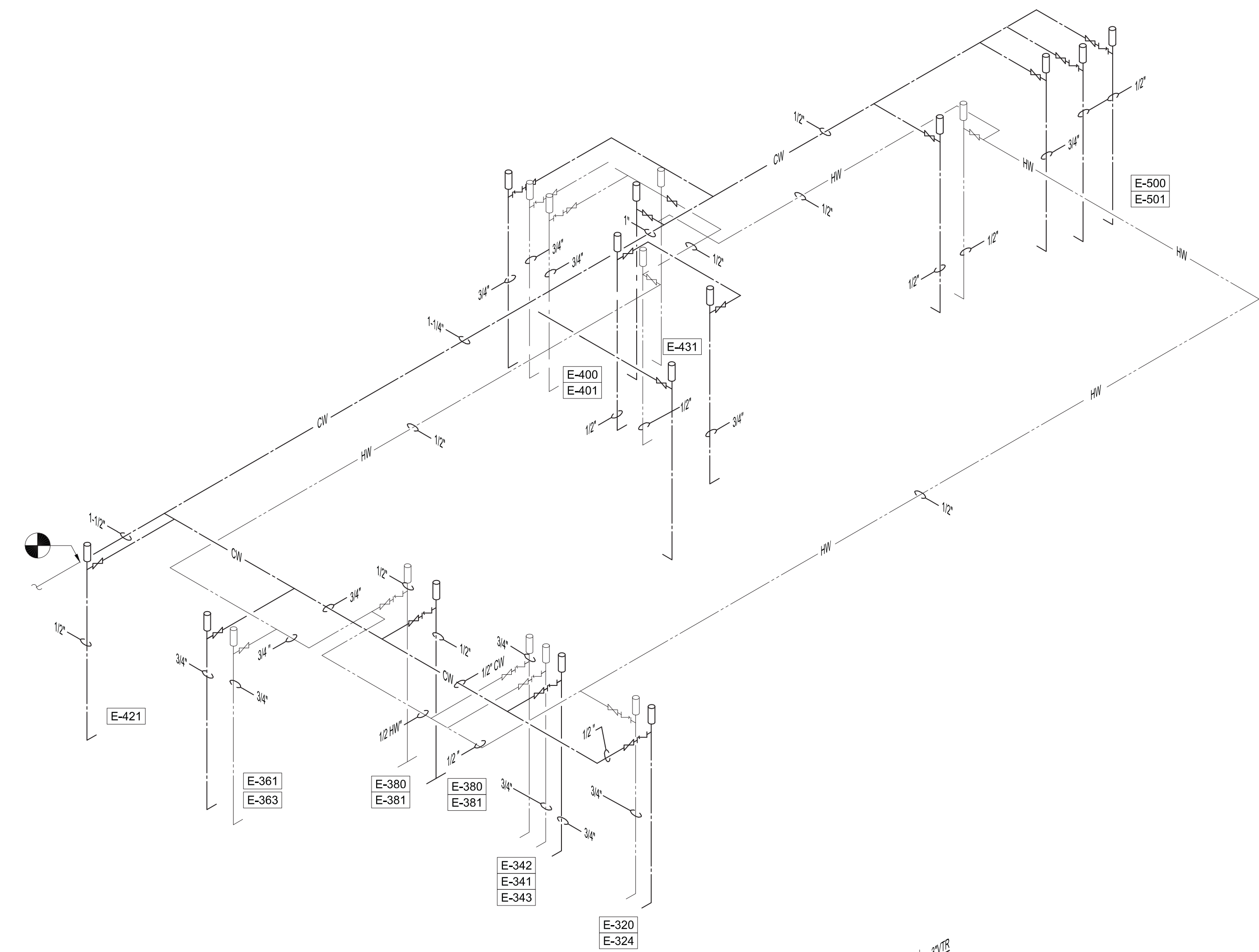
**MOD LEES SUMMIT**  
460 NW CHIPMAN RD  
LEES SUMMIT, MO 64086

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**P-502**  
RISER DIAGRAMS

CHECKED: DAK DRAWN: MP  
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2035 158th CT NE Suite 200 Bellevue, WA 98008

ARCHITECT OF RECORD



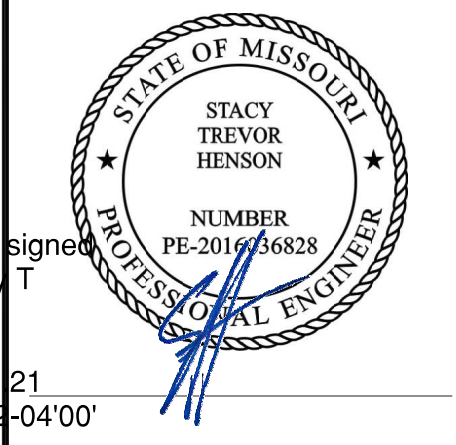
ARCH COA #2015008774 ENG COA #2005026904

ARCHITECTURE ENGINEERING PERMITTING

220 E. CENTRAL PKWY, STE 4000 ALTAMONTE SPRINGS, FL 32701 407.645.5008 PROJECT NO. 2021.0524

CONSULTANT

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MOD LEES SUMMIT 460 NW CHIPMAN RD LEES SUMMIT, MO 64086

ISSUED / REVISED DATE BUILDING COMMENTS 10.18.21 DESIGN UPGRADES 10.18.21

PERMIT SET 09.20.21

P-601 PLUMBING SCHEDULES

WATER HEATER CALCULATION

Table with columns: EQUIPMENT, QTY., GALLONS/HOUR/DAY, TOTAL. Includes rows for PREP SINK, 3-COMPARTMENT SINK, LAVATORY, MOP SINK, HAND SINK, and a TOTAL row.

NOTES: DISHWASHER TO BE SUPPLIED WITH 6 GALLON BOOSTER TANK AT 14 KW, SEE SPECIFICATION ON THIS SHEET.

GAS EQUIPMENT SCHEDULE

Table with columns: EQUIPMENT, INPUT CAPACITY (MBH). Includes rows for PIZZA OVEN, (E) RTU's x 4, (2) GAS WATER HEATER, and a TOTAL row.

NOTES: 1. CONFIRM GAS PRESSURE AT EQUIPMENT IS BETWEEN 7" WATER COLUMN MINIMUM AND 10" WATER COLUMN MAXIMUM AT EQUIPMENT PRIOR TO INSTALLATION AND START UP OF EQUIPMENT. NOTIFY OWNER IF GAS PRESSURE IS OUTSIDE THIS REQUIREMENT. 2. SIZING BASED ON LESS THEN 2 PSI PRESSURE AT 6.0 IN. WC. PRESSURE DROP AND 90' TOTAL DEVELOP LENGTH.

DOMESTIC WATER SUPPLY FIXTURE UNITS

Table with columns: TYPE OF FIXTURE, TYPE OF SUPPLY CONTROL, FIXTURE DESIGNATION, QUANTITY, HW (EACH), HW (TOTAL), CW (EACH), CW (TOTAL), TOTAL (EACH), TOTAL FSU'S. Includes rows for ADA WATER CLOSET, LAVATORY, ICE MAKER, SODA DISPENSER, TEA BREWER, HAND SINK, PREP SINK, 3 COMP. SINK, MOP SINK, and SERVICE TOTAL rows.

BACKFLOW DEVICE SCHEDULE

Table with columns: TAG, SERIES, SIZE, TYPE, USAGE, APPROVAL. Includes rows for BFP-1 through BFP-7, detailing backflow preventer types and approvals.

NOTES: 1. BASED ON WATTS. 2. CONTRACTOR TO VERIFY EXACT REQUIREMENTS OF ALL REQUIRED BACKFLOW DEVICES AND FIXTURES WITH AUTHORITIES HAVING JURISDICTION PRIOR TO BID.

PLUMBING FIXTURE AND EQUIPMENT SCHEDULE

Large table with columns: TAG, DESCRIPTION, FIXTURE (MANUF., MODEL NUMBER), FAUCET (MANUF., MODEL NUMBER), CONNECTIONS (TRAP, DIRECT WASTE, INDIRECT WASTE, VENT, CW, HW), ACCESSORIES / REMARKS. Includes rows for PIZZA OVEN, WALK-IN COOLER/FREEZER, CAPSULE PAK REFRIGERATION UNIT COOLER, CAPSULE PAK REFRIGERATION UNIT FREEZER, DISHWASHER, 3-COMP SINK, FAUCET & SPRAYER, 3-COMP SINK DISPENSER, PREP SINK & FAUCET, HAND SINK & FAUCET, MOP SINK & FAUCET, MOP SINK DISPENSER, WATER FILTRATION SYSTEM, TEA BREWER & DISPENSER, COKE BIB RACK, SODA MACHINE, ICE MACHINE, WATER CLOSET (ADA), URINAL, LAVATORY (ADA) & FAUCET, FLOOR CLEANOUT, FLOOR DRAIN, FLOOR SINK, HOSE BIBB, HUB DRAIN, THERMOSTATIC MIXING VALVE, TRAP PRIMER, WALL CLEANOUT.

NOTES: 1. NOT ALL ITEMS IN SCHEDULE ARE USED. REFER TO PLUMBING PLANS FOR QUANTITIES AND LOCATIONS

GREASE INTERCEPTOR CALCULATIONS

Table with columns: SYMBOL, FIXTURE TYPE, COMPARTMENT QUANTITY, L, W, D, VOLUME (CU. IN.), VOLUME (GALLONS), % FULL, DRAIN TIME (MINUTES), DRAINAGE LOAD (GALLONS). Includes rows for E-400, E-361 / E-362, E-340 / E-341, E-380, and a TOTAL row.

DRAINAGE FIXTURE UNITS SCHEDULE

Table with columns: TYPE OF FIXTURE, FIXTURE DESIGNATION, QUANTITY, FIXTURE UNIT (EACH), MINIMUM FIXTURE TRAP AND DRAIN SIZE, TOTAL FIXTURE UNITS. Includes rows for ADA WATER CLOSET, LAVATORY, HAND SINK, PREP SINK, 3 COMP. SINK, MOP SINK, FLOOR DRAIN, FLOOR SINK, and a TOTAL row.

GAS WATER HEATER SCHEDULE

Table with columns: TAG, QTY., MANUFACTURE / MODEL, FLOW RATE AT 100°F (GPM), TEMP SETTING (°F), CAPACITY, CW INLET (IN), HW OUTLET (IN), ELECTRICAL (FLA (AMPS), VOLTAGE/PHASE (V/Ø)), DIMENSIONS L' x W' x H", WEIGHT (LBS), NOTES. Includes row for E-431.

NOTES: 1. PROVIDE WITH HEAT TRAPS ON SUPPLY AND DISCHARGE LINES. 2. PROVIDE WATER HEATER MOUNTING RACK MODEL#CR60-WH-2-(ING OR LP). MOUNT WATER HEATER ON WALL AS INDICATED ON ARCHITECTURAL DRAWINGS.

EXPANSION TANK SCHEDULE

Table with columns: TAG, SYSTEM SERVED, LOCATION, MANUFACTURER/MODEL, VOLUME (GALLONS), SYSTEM CONNECTION (IN). Includes row for ET-1.

RECIRCULATION PUMP SCHEDULE

Table with columns: TAG, SYSTEM SERVED, LOCATION, MANUFACTURER/MODEL, ELECTRICAL (GPM, FT/HD, FLA (AMPS), VOLTAGE/PHASE), NOTES. Includes row for CP-1.

NOTES: 1. PROVIDE WITH PROGRAMMABLE TIMER CONTROLS FOR PROGRAMMED SHUTDOWN. 2. PROVIDE THREADED QUICK DISCONNECTS (UNIONS) AND SHUT OFF VALVES ON BOTH THE INLET AND OUTLET OF THE RECIRCULATING PUMP FOR QUICK ISOLATION AND REMOVAL SERVICING / MAINTENANCE.



2035 158th CT NE  
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Bellevue, WA 98008

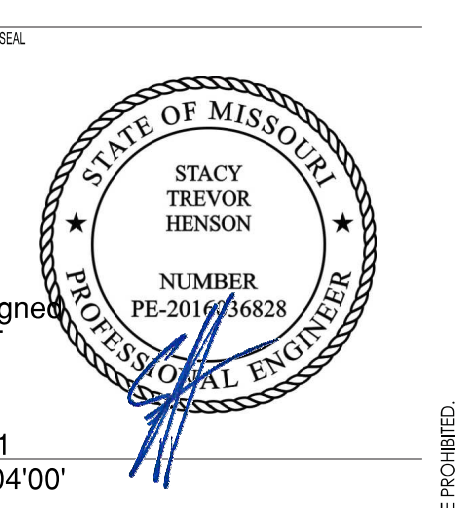


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Henson  
Date: 2021.10.21  
16:47:04-04'00'

**MOD LEE'S SUMMIT**  
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**E-001**  
ELECTRICAL LEGENDS AND ABBREVIATIONS

CHECKED: EAF DRAWN: TMA

SYMBOL LEGEND																																															
POWER RECEPTACLE OUTLETS	LIGHTING OUTLETS																																														
<ul style="list-style-type: none"> <li>⊕ DUPLEX</li> <li>⊕⊕ DOUBLE DUPLEX</li> <li>⊕⊕ SINGLE SPECIAL PURPOSE</li> <li>⊕⊕⊕ DUPLEX GFCI</li> <li>⊕⊕⊕ DOUBLE DUPLEX GFCI RECEPTACLE</li> <li>⊕⊕⊕ DUPLEX OVER COUNTER (VERIFY HEIGHT)</li> <li>⊕⊕⊕ DUPLEX GFCI OVER COUNTER (VERIFY HEIGHT)</li> <li>⊕⊕⊕ CEILING-MOUNTED DUPLEX</li> <li>⊕⊕⊕ JUNCTION BOX WITH BLANK COVER</li> <li>⊕⊕⊕ FLOOR-MOUNTED RECEPTACLE</li> </ul>	<ul style="list-style-type: none"> <li>○ RECESSED DOWNLIGHT</li> <li>○ RECESSED FLUORESCENT</li> <li>⊕⊕ PENDANT MOUNTED FIXTURE OR CHANDELIER</li> <li>⊕⊕ TRACK LIGHT (LENGTH AS SHOWN ON PLAN)</li> <li>⊕⊕ WALL MOUNTED VAPOR JAR LAMP</li> <li>⊕⊕ SURFACE CEILING MOUNTED MONOPINT FIXTURE. ARROW INDICATES DIRECTION TO AIM HEAD</li> <li>⊕⊕ COMBO EXIT SIGN / EGRESS FIXTURE.</li> <li>⊕⊕ DUAL HEAD EMERGENCY EGRESS FIXTURE</li> <li>⊕⊕ EMERGENCY EGRESS FIXTURE</li> </ul>																																														
PANELBOARDS, SWITCHES & EQUIPMENT	SWITCH OUTLETS & CONTROL DEVICES																																														
<ul style="list-style-type: none"> <li>⊕ CIRCUIT BREAKER PANEL</li> <li>⊕ SWITCHBOARD OR MOTOR CONTROL CENTER</li> <li>⊕ TERMINAL CABINET</li> <li>⊕ DISCONNECT SWITCH</li> <li>⊕ FUSED DISCONNECT SWITCH</li> <li>⊕ FAN CONNECTION</li> <li>⊕ EQUIPMENT CONNECTION</li> <li>⊕ MOTOR CONNECTION</li> </ul>	<ul style="list-style-type: none"> <li>S SINGLE-POLE</li> <li>S<sub>3</sub> THREE-POLE</li> <li>S<sub>4</sub> FOUR-WAY</li> <li>S<sub>D</sub> DIMMER</li> <li>S<sub>PI</sub> PILOT-LIGHTED</li> <li>S<sub>K</sub> KEY-OPERATED</li> <li>S<sub>M</sub> MECHANICAL EQUIP.</li> <li>S<sub>P</sub> PUSHBUTTON</li> </ul>																																														
COMMUNICATIONS SYMBOLS	CIRCUITING																																														
<ul style="list-style-type: none"> <li>⊕ DATA/COMM OUTLET (NUMBER INDICATES QUANTITY OF JACKS)</li> <li>TTB TELEPHONE TERMINAL BOARD - 3/4" FIRE RESISTANT PLYWOOD</li> </ul>	<ul style="list-style-type: none"> <li>— WIRING CONCEALED IN CEILING OR WALL</li> <li>- - - WIRING CONCEALED IN FLOOR OR UNDERGROUND</li> <li>    NUMBER OF CONDUCTORS</li> <li>▶ BRANCH CIRCUIT HOMERUN</li> <li>↘ BRANCH CIRCUIT CONTINUES ELSEWHERE (NOTED)</li> <li>   GROUNDING ELECTRODE</li> <li>— LV LOW VOLTAGE</li> <li>● ISOLATED GROUND WIRE</li> </ul>																																														
ABBREVIATIONS																																															
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ELECTRICAL SHEET INDEX	
E-001	ELECTRICAL LEGEND AND ABBREVIATIONS
E-111	ELECTRICAL LIGHTING PLAN
E-112	POWER AND LOW VOLTAGE PLAN
E-501	LOW VOLTAGE DETAILS
E-601	ELECTRICAL SCHEDULES
E-602	RISER DIAGRAM AND PANEL SCHEDULES
SP-913	ELECTRICAL SPECIFICATION

**GENERAL NOTES**

- CIRCUIT NUMBERS SHOWN AS X(h) WHERE X IS THE CIRCUIT NUMBER AND h IS THE SWITCHED LEG.
- ROUTE LIGHTING CIRCUITS THROUGH TRACK LIMITERS FOR TRACK LIGHTS UPSTREAM OF SWITCH BANK. SEE DETAILS 2.384 ON THIS SHEET.
- SEE ARCHITECTURAL REFLECTED CEILING PLAN, SHEET A-121, FOR FIXTURE ELEVATIONS.
- REFER TO E-801 FOR LIGHT FIXTURE SCHEDULE.

**FLAG NOTES**

- NOT USED.
- ALL LIGHTING IS PRE-INSTALLED AND INTEGRATED TO WALK-IN COOLER/FREEZER. ELECTRICAL CONTRACTOR SHALL PROVIDE LAMPS FOR INTEGRATED FIXTURES. COORDINATE WITH WALK-IN COOLER/FREEZER MANUFACTURER PRIOR TO BID.
- AUDIO SPEAKERS SHOWN FOR REFERENCE ONLY.
- EXTINGUISH AND N.L. FIXTURES TO BE CONNECTED AHEAD OF SWITCHING AND LIGHTING CONTROL. PROVIDE UNITS WITH BATTERY CARRYING A MINIMUM CAPACITY FOR 90 MINUTES CONTINUOUS OPERATION WITH TOTAL LOAD FUNCTIONING.
- PROVIDE JUNCTION BOX IN ACCESSIBLE CEILING OR 18" ABOVE TOP OF STOREFRONT FOR EXTERIOR SIGNAGE. COORDINATE EXACT LOCATION WITH SIGN INSTALLER PRIOR TO ROUGH-IN. ROUTE CIRCUIT THROUGH TIMER SWITCH FOR AUTOMATIC CONTROL. SEE FLAG NOTE 8 ON THIS SHEET.
- LIGHTING CONTROLS TO BE LOCATED IN KITCHEN. NO DEVICES TO BE LOCATED ON FOH SIDE OF DOOR.
- SEE (IN-LINE) SWITCH BANK DETAIL ON THIS SHEET, FOR SWITCHING ARRANGEMENT AND DETAILS LIGHTING CONTROL DIAGRAM ON THIS SHEET FOR AUTOMATIC CONTROL.
- CONTACTORS SWITCH FOR EXTERIOR SIGNAGE. PROVIDE LABEL STATING "EXTERIOR SIGNS". CONFIRM AND COMPLY WITH ALL LANDLORD AND LOCAL JURISDICTIONAL REQUIREMENTS AND REGULATIONS PRIOR TO PROGRAMMING. SEE DETAIL 4 ON THIS SHEET.
- EXISTING LIGHTING FIXTURE FED FROM LL PANEL TO REMAIN.
- MOUNT DRIVER FOR LED COVE LIGHT AT END OF COVE IN CORNER OF COVE TO MAINTAIN ACCESSIBILITY FOR SERVICING.
- NOT USED.
- TIME SWITCH WITH OVERRIDE FOR CLEANING AND CONTROL OF INTERIOR LIGHTING. SEE DETAIL 3 ON THIS SHEET. COORDINATE EXACT LOCATION WITH OWNER PRIOR TO INSTALL.
- EXISTING EXTINGUISH FIXTURE TO BE CONNECTED TO NEW CIRCUIT SHOWN ON FLOOR PLAN. AHEAD OF SWITCHING AND LIGHTING CONTROL.
- PROVIDE TIMELOCKS. REFER TO DETAILS 3 AND 4 ON E-111 FOR ADDITIONAL INFORMATION.

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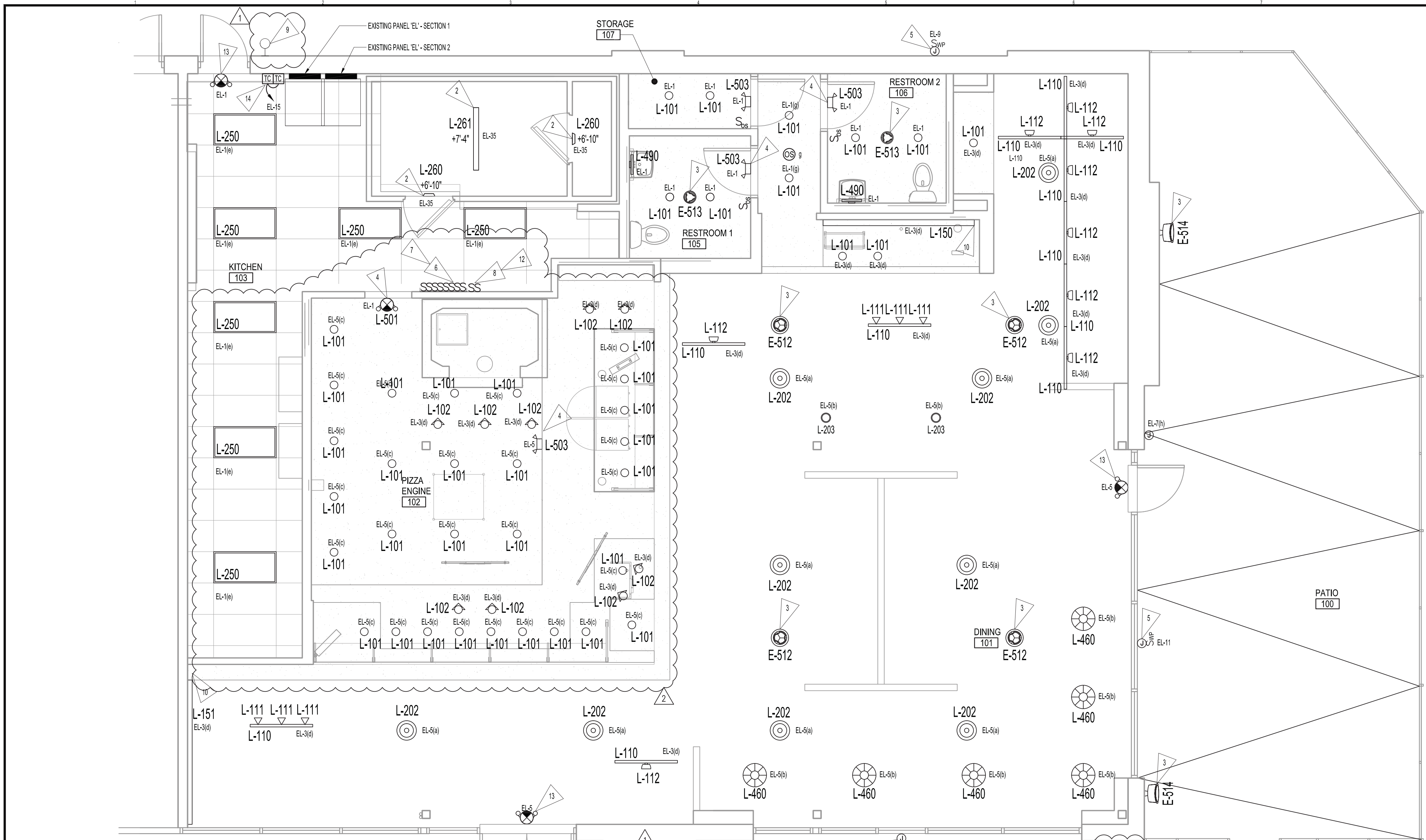
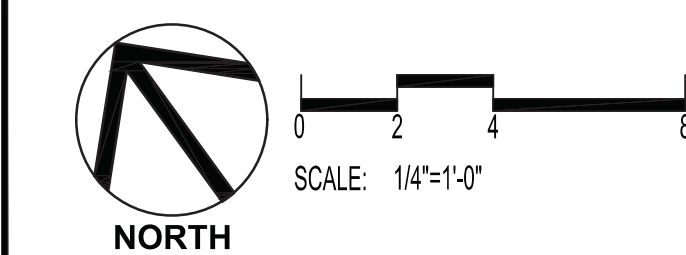
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ISSUED / REVISED	DATE
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△ DESIGN UPGRADES	10.18.21

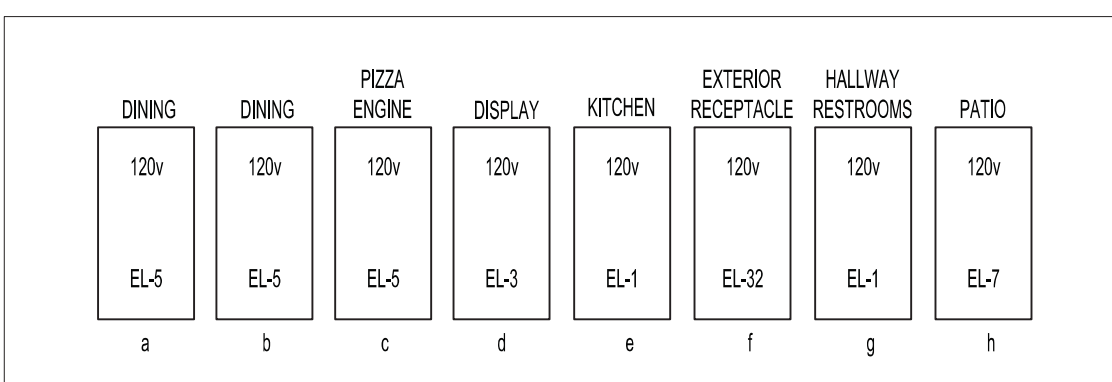
PERMIT SET 09.20.21

**E-111**  
 ELECTRICAL LIGHTING PLAN

CHECKED: EAF DRAWN: TMA  
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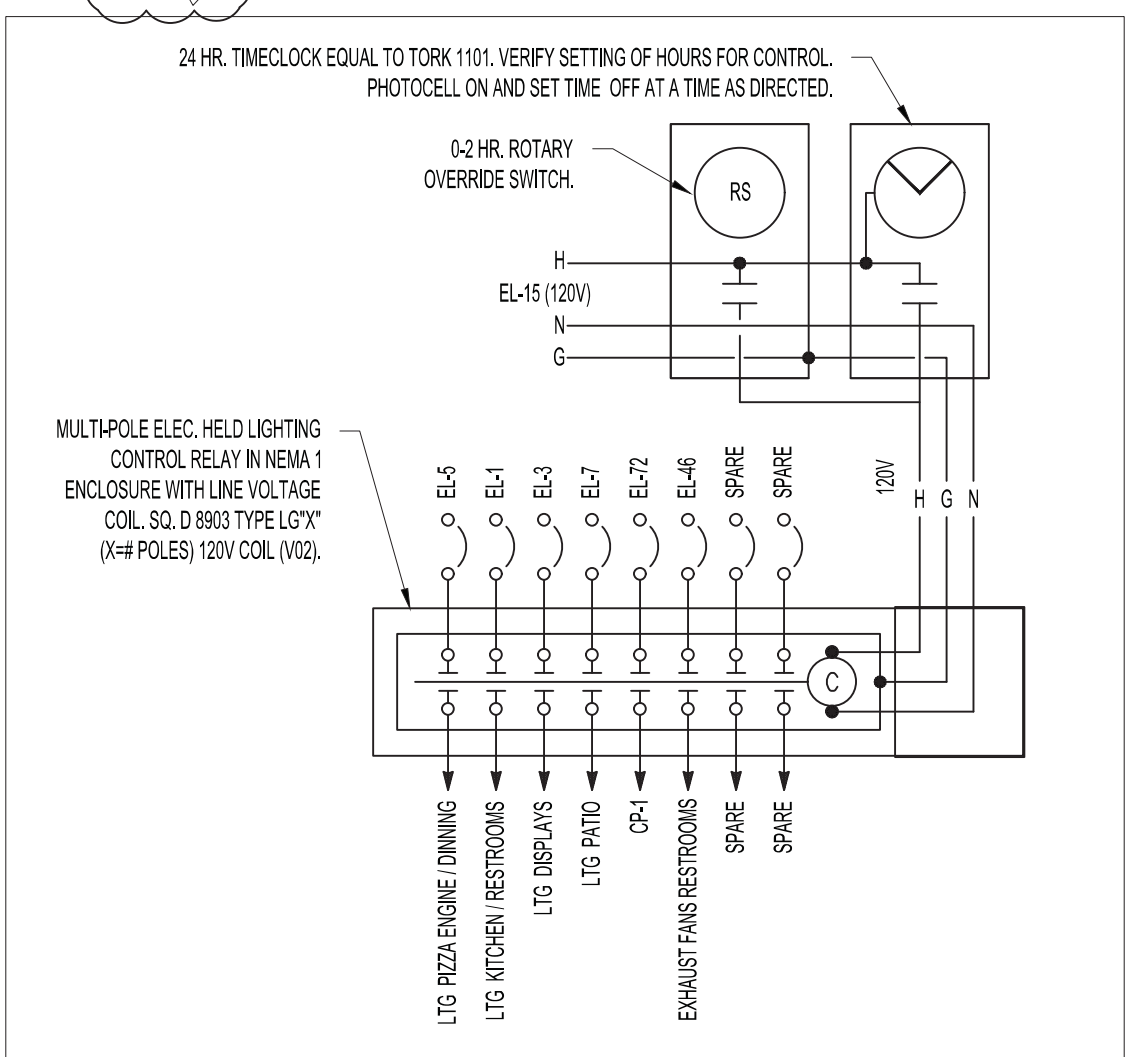


**1 ELECTRICAL LIGHTING PLAN**

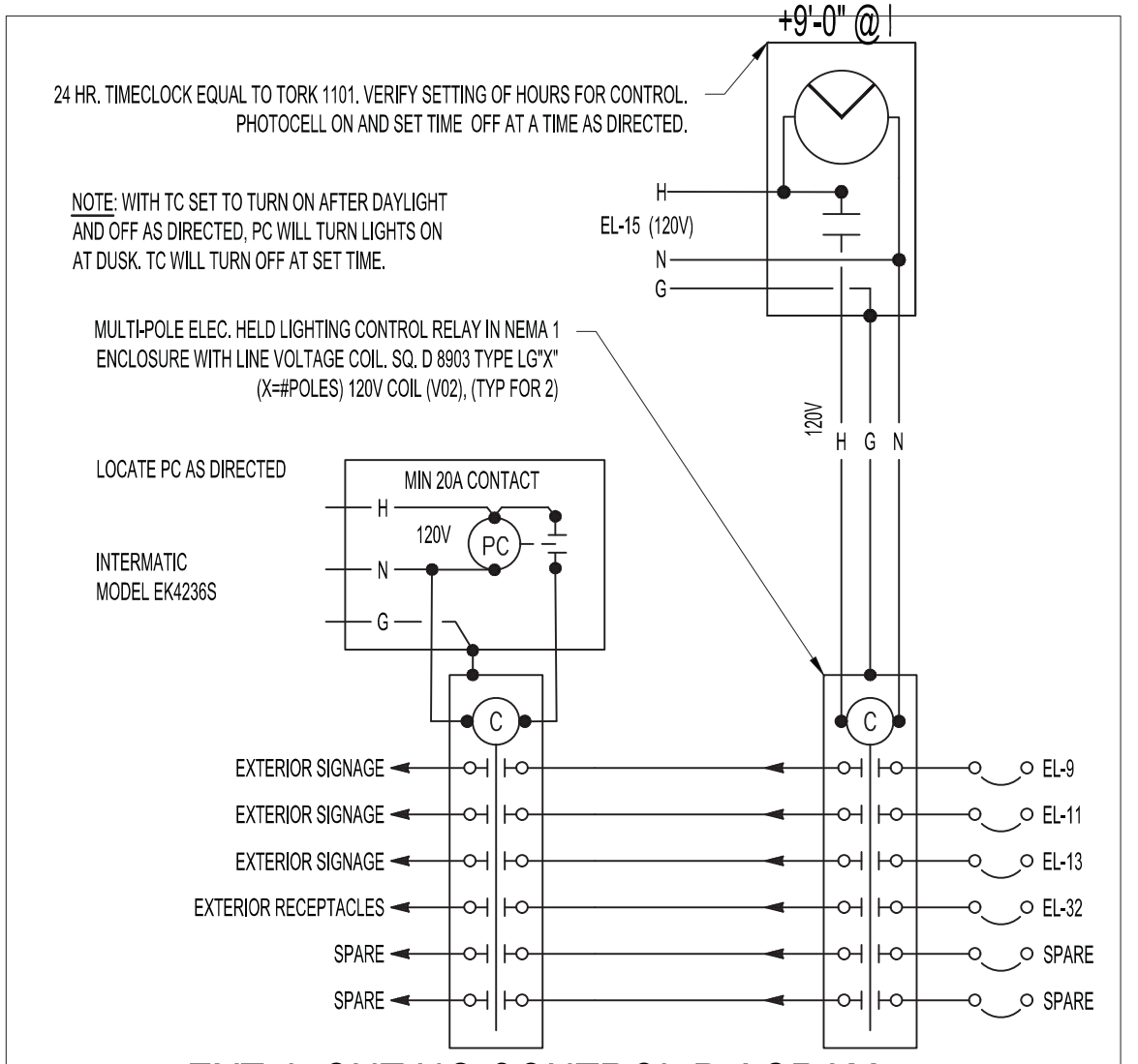


- NOTES:**
- VERIFY EXACT CONFIGURATION REQUIRED WITH SPACE AVAILABLE.
  - PROVIDE LABELS AS INDICATED.
  - SWITCHES SHALL NOT BE MOUNTED HIGHER THAN 48" AFF.
  - MULTIPLE SWITCHES IN A SINGLE LOCATION SHALL BE GANGED TOGETHER IN SINGLE BOX WITH A SINGLE COVER PLATE UNLESS NOTED OTHERWISE.
  - SWITCHES TO HAVE LED INDICATORS.

**2 SWITCH BANK DETAIL**  
 NO SCALE



**3 INT. LIGHTING CONTROL DIAGRAM**  
 NO SCALE



**4 EXT. LIGHTING CONTROL DIAGRAM**  
 NO SCALE



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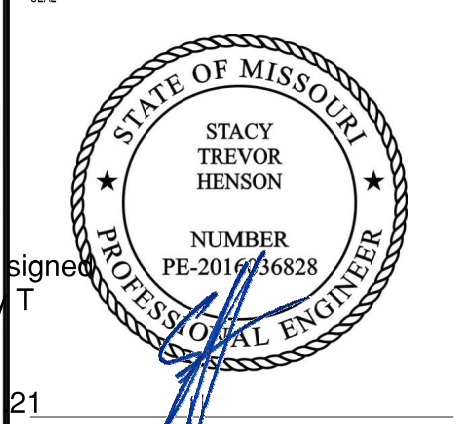
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ARCH COA #2015008774 ENG COA #2005026904

ARCHITECTURE ENGINEERING PERMITTING

220 E. CENTRAL PKWY, STE 4000 ALTAMONTE SPRINGS, FL 32701 407.645.5008 PROJECT NO. 2021.0524

CONSULTANT



Stacy Trevor Henson, PE-201636828, 16:47:06-04'00"

MOD LEES SUMMIT 460 NW CHIPMAN RD LEES SUMMIT, MO 64086

Table with 3 columns: ISSUED / REVISED, BUILDING COMMENTS, DESIGN UPGRADES, DATE. Includes entries for 10.18.21 and 10.18.21.

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E-112 POWER AND LOW VOLTAGE PLAN

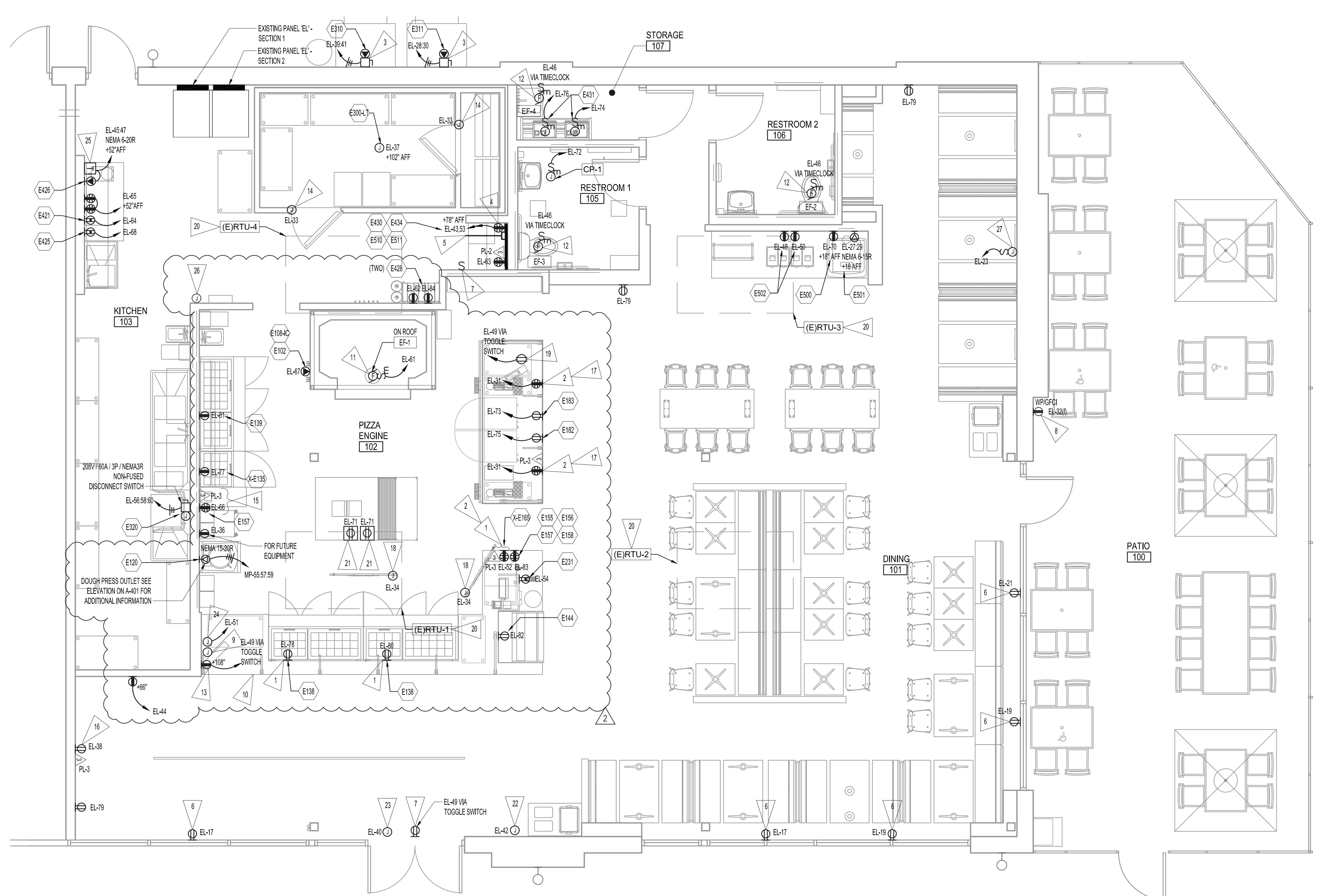
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GENERAL NOTES

- 1. REFER TO MECHANICAL EQUIPMENT CONNECTION SCHEDULE, SHEET E-801, FOR ELECTRICAL REQUIREMENTS.
2. REFER TO KITCHEN EQUIPMENT CONNECTION SCHEDULE, SHEET E-801, FOR ELECTRICAL REQUIREMENTS.
3. PROVIDE GFCI PROTECTION FOR RECEPTACLES LOCATED IN KITCHEN PER NEC 210.8(B)(2), IF NOT ACCESSIBLE, USE GFI CIRCUIT BREAKER.

FLAG NOTES

- 1. ROUTE ALL POWER AND ASSOCIATED CONDUIT FROM DEVICES THROUGH MILLWORK, UP FURRED OUT WALL TO PANEL LOCATION. COORDINATE EXACT LOCATION IN MILLWORK WITH CASEWORK VENDORS SHOP DRAWINGS.
2. PROVIDE RECEPTACLES AND TELE DATA DEVICES BELOW MILLWORK. COORDINATE EXACT LOCATION IN MILLWORK WITH CASEWORK VENDORS SHOP DRAWINGS.
3. MOUNT 3/4" X 2 1/2" NEMA 1, GENERAL DUTY DISCONNECTS SWITCH IN ACCESSIBLE SPACE ABOVE WALK-IN COOLER AS REQUIRED. ENSURE ALL PENETRATIONS ARE SEALED.
4. LOCATION FOR DATA RACK ABOVE DESK. COORDINATE LOCATION WITH ARCHITECTURAL INTERIOR ELEVATIONS.
5. PROVIDE LABOR AND MATERIAL AS REQUIRED TO EXTEND EXISTING TELEPHONE CONDUIT STUB TO NEW DATA RACK LOCATION. UTILIZED CONDUIT FOR THE REMOTE WATER METER LOW VOLTAGE WIRE.
6. WALL MOUNTED SHOW WINDOW RECEPTACLES. MOUNT RECEPTACLE WITHIN 18" OF TOP OF STOREFRONT WINDOW PER NEC.
7. WALL MOUNTED SHOW WINDOW RECEPTACLE FOR OPEN SIGN. ROUTE CIRCUIT THROUGH TOGGLE SWITCH AT BACK OF HOUSE SIDE OF DOOR. LABEL SWITCH 'OPEN SIGN'. MOUNT RECEPTACLE WITHIN 18" OF TOP OF STOREFRONT WINDOW PER NEC.
8. EXTERIOR SWITCHED RECEPTACLE. ROUTE CIRCUIT THROUGH TIMER SWITCH FOR MANUALLY SWITCH CONTROL. SEE SWITCH BANK DETAIL, SHEET E-111.
9. PROVIDE SINGLE-GANG BOX CONCEALED BY CASEWORK FOR LOW VOLTAGE WIRING. PROVIDE 3/4" CONDUIT FROM SINGLE-GANG BOX, TO TELEPHONE TERMINAL BACKBOARD LOCATION. LOW-VOLTAGE WIRING TO BE CONCEALED IN CASEWORK.
10. CASEWORK PANEL IS REMOVABLE TO ALLOW MEANS OF INSTALLATION OF CONDUIT AND LOW VOLTAGE WIRING. REFER TO CASEWORK VENDORS SHOP DRAWINGS FOR MORE INFORMATION.
11. COORDINATE EXACT LOCATION WITH MECHANICAL AND ARCHITECTURAL DRAWINGS PLUS ADDITIONAL REQUIREMENTS WITH MANUFACTURER SPECIFICATIONS PRIOR TO ROUGH-IN.
12. ROUTE EXHAUST FAN CIRCUIT THROUGH TIMELOCK FOR AUTOMATIC CONTROL TO OPERATE DURING BUSINESS HOURS.
13. CEILING-MOUNTED RECEPTACLE FOR ORDER HERE SIGN. ROUTE SHARED CIRCUIT THROUGH TOGGLE SWITCH AT BACK OF HOUSE. LABEL TOGGLE SWITCH 'OPEN SIGN'. SEE FLAG NOTE 7, THIS SHEET. COORDINATE HEIGHT WITH MOD DESIGN TEAM AND SHEET A-401.
14. PROVIDE INTEGRAL JUNCTION BOX FOR INTEGRATED CONTROLS (DOOR HEATER) IN WALK-IN COOLER/FREEZER. CONNECT TO THE CIRCUIT INDICATED.
15. PROVIDE POWER AND DATA FOR ONLINE ORDER PRINTER. REFER TO ARCH. ELEVATION FOR HEIGHT. COORDINATE LOCATION WITH MOD.
16. PROVIDE POWER AND DATA FOR FUTURE DIGITAL CLASSICS BOARD. TERMINATE AND LEAVE BLANK UNTIL POINT OF DIGITAL BOARD INSTALLATION. COORDINATE LOCATION WITH MOD AND INTERIOR DRAWINGS PRIOR TO BID. PROVIDE ADDITIONAL CONDUIT W/ PULL STRING FOR FUTURE POWER AND DATA.
17. STUB UP POWER AND DATA FROM FLOOR FOR FUTURE EXPO PICK UP. RUN CONDUITS TO SURFACE MOUNTED DUPLEX J-BOX BENEATH COUNTER AT BACK OF CASEWORK. COORDINATE LOCATION WITH MOD.
18. PROVIDE POWER AND DATA FOR FUTURE HANGING MENU IN SOFFIT. TERMINATE AND LEAVE BLANK UNTIL POINT OF HANGING MENU INSTALLATION. COORDINATE LOCATION WITH MOD. PROVIDE ADDITIONAL CONDUIT W/ PULL STRING FOR FUTURE POWER AND DATA.
19. PROVIDE CEILING OUTLET FOR ONLINE ORDER SIGN. ROUTE SHARED CIRCUIT THROUGH TOGGLE SWITCH AT BACK OF HOUSE. LABEL TOGGLE SWITCH 'OPEN SIGN'. SEE FLAG NOTE 7, THIS SHEET. COORDINATE LOCATION WITH MOD AND ARCHITECTURAL SHEETS.
20. EXISTING RTU UNIT AND DUCT SMOKE DETECTORS. ELECTRICAL CONTRACTOR TO CONFIRM EXISTING ELECTRICAL EQUIPMENT IS IN GOOD WORKING CONDITION AND TO REPAIR/REPLACE AS NEEDED.
21. PROVIDE FLOOR BOX FOR FUTURE WING OVEN. COORDINATE REQUIREMENTS WITH MOD PRIOR TO INSTALLATION.
22. PROVIDE POWER AND DATA FOR FUTURE KIOSK AT 18" AFF. TERMINATE AND LEAVE BLANK UNTIL POINT OF KIOSK INSTALLATION. COORDINATE LOCATION WITH MOD. PROVIDE ADDITIONAL CONDUIT W/ PULL STRING FOR FUTURE POWER AND DATA.
23. PROVIDE POWER AND DATA FOR FUTURE PREORDER BOARD ABOVE STORE FRONT. TERMINATE AND LEAVE BLANK UNTIL POINT OF PREORDER BOARD INSTALLATION. COORDINATE LOCATION WITH MOD. PROVIDE ADDITIONAL CONDUIT W/ PULL STRING FOR FUTURE POWER AND DATA.
24. PROVIDE POWER AND DATA FOR FUTURE KIDS AT POINT BELOW COUNTER. TERMINATE AND LEAVE BLANK UNTIL POINT OF KIDS INSTALLATION. COORDINATE LOCATION WITH MOD. PROVIDE ADDITIONAL CONDUIT W/ PULL STRING FOR FUTURE POWER AND DATA.
25. PROVIDE MINIMUM 3.5KVA BUCK-BOOST TRANSFORMER FOR DOUGH PRESS BACKUP AS REQUIRED. PROVIDE CONNECTIONS AND PROPER OVERCURRENT PROTECTION PER MANUFACTURERS SPECIFICATION.
26. PROVIDE ONE 1" CONDUIT WITH PULL STRING FOR WIRING FROM HOOD CONTROL PANEL TO ANSUL SYSTEM. COORDINATE WITH MECHANICAL AND HOOD DRAWINGS.
27. PROVIDE POWER FOR BADGE. COORDINATE EXACT LOCATION AND MOUNTING HEIGHT WITH ARCHITECT AND INTERIOR DESIGN PRIOR TO BID. ROUGH-IN AND INSTALLATION. ROUTE CIRCUIT THROUGH TIMELOCK FOR AUTOMATIC CONTROL.



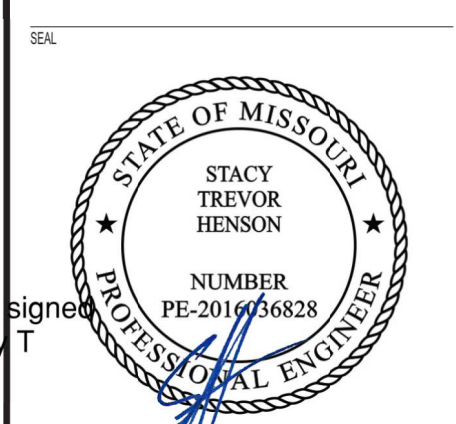
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220 E. CENTRAL PKWY, STE 4000  
ALTAMONTE SPRINGS, FL 32701  
407.645.5008  
PROJECT NO. 2021.0524

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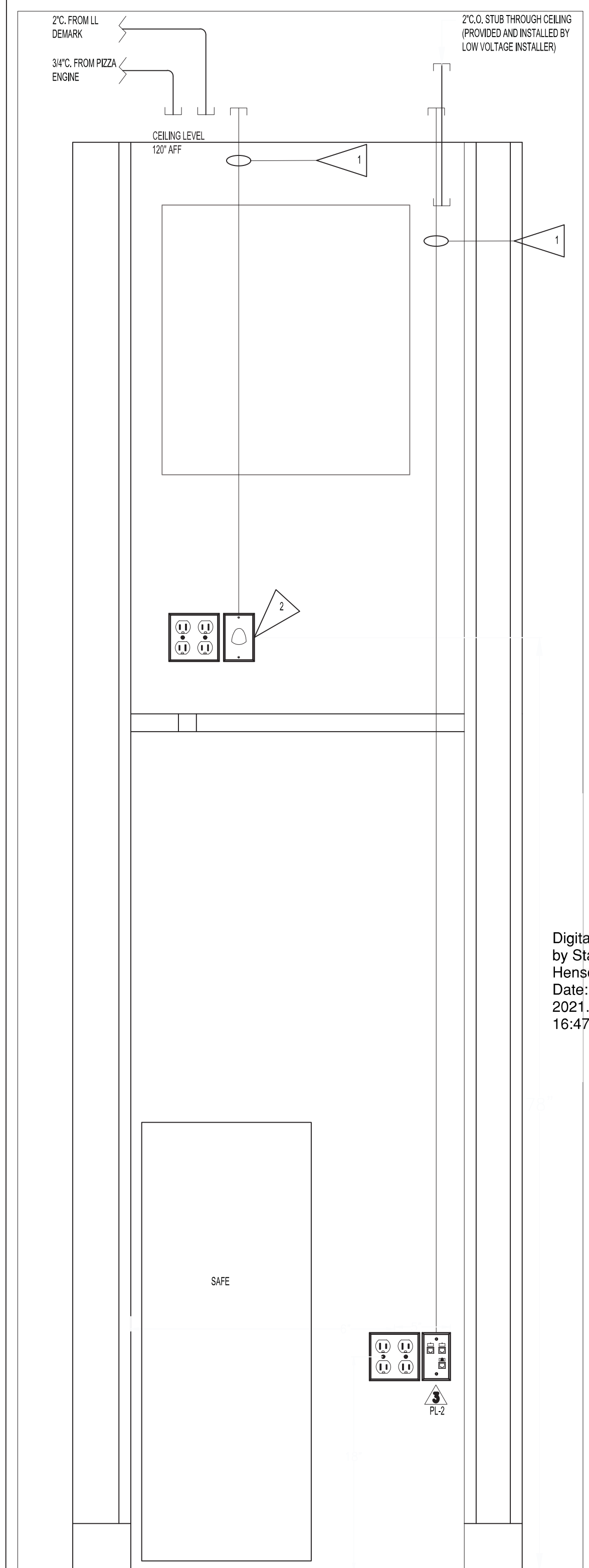
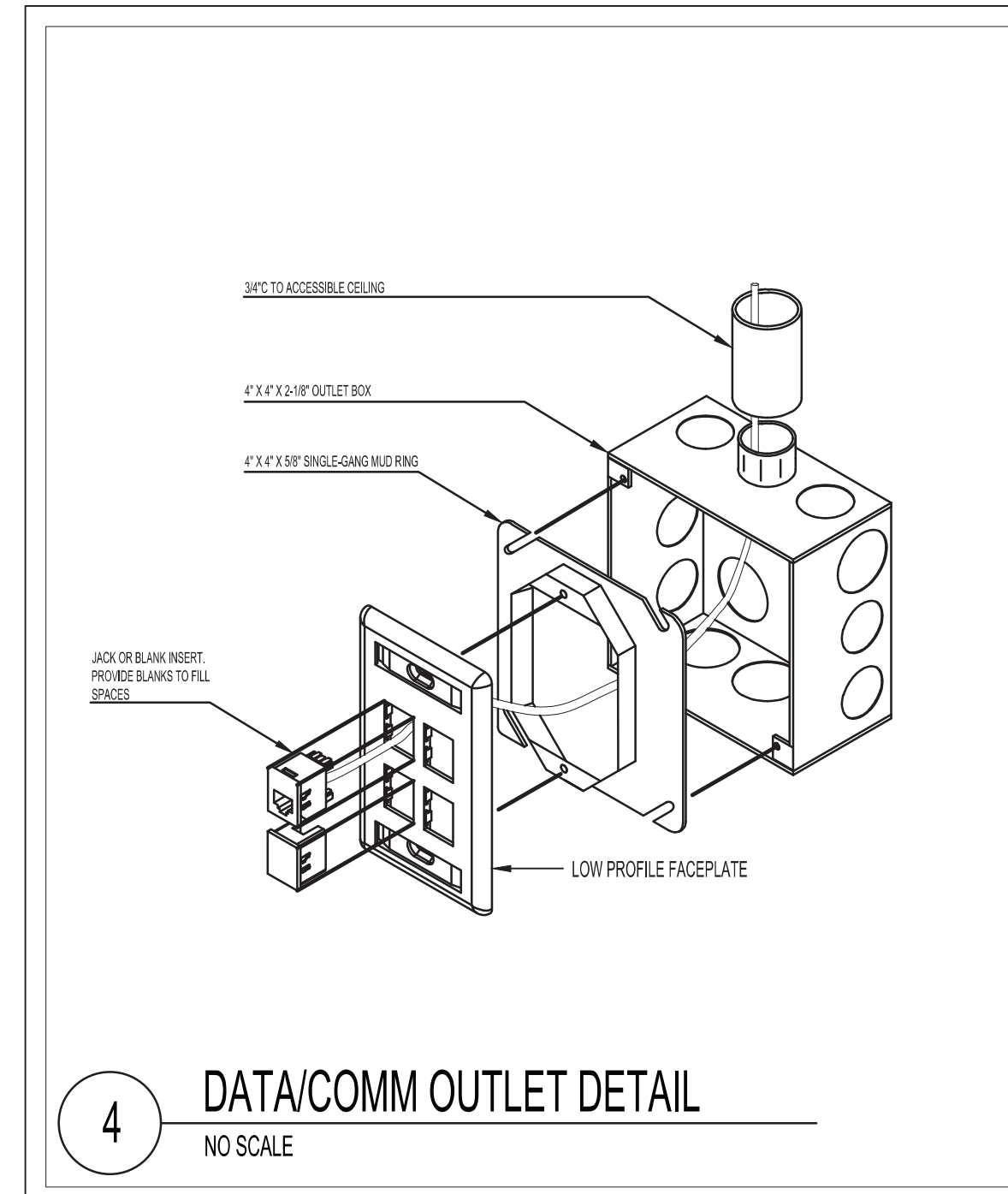
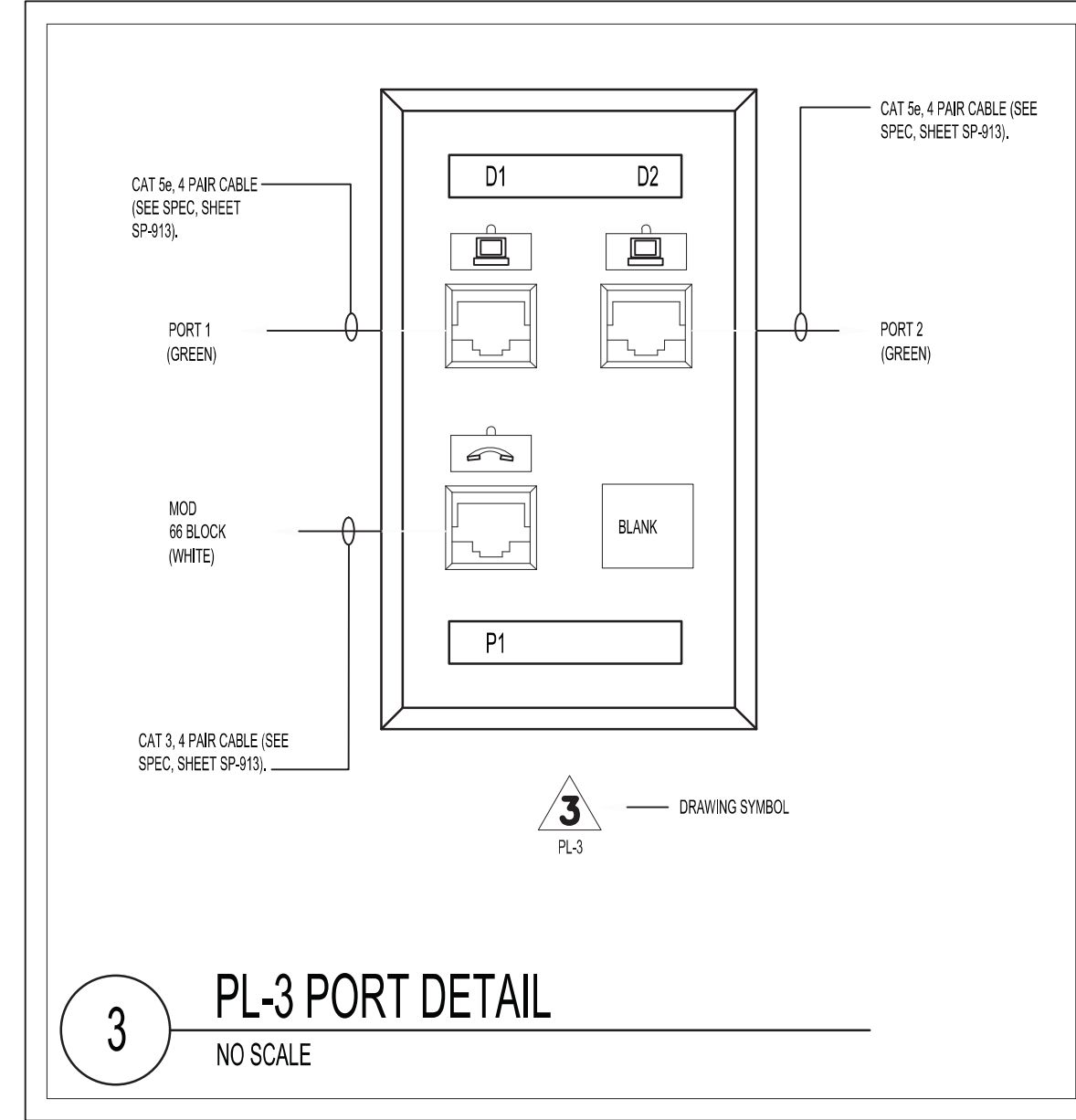
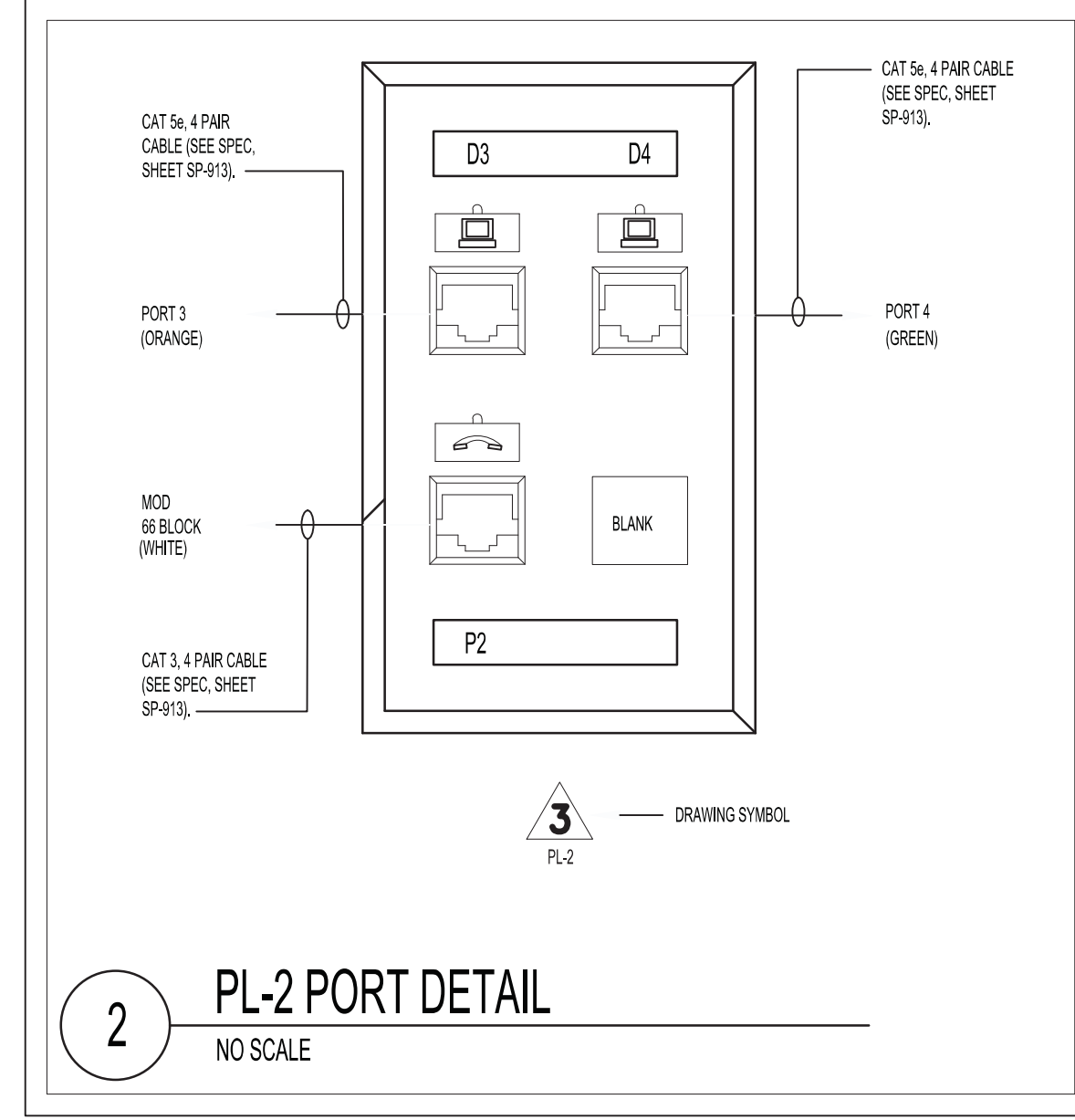
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**E-501**  
LOW VOLTAGE DETAILS

CHECKED: EAF DRAWN: TMA



**DETAIL NOTES**

- REFER TO ARCHITECTURAL ELEVATION DETAIL 6, SHEET A-711, FOR SHELF HEIGHTS AND DESCRIPTION OF ADDITIONAL ITEMS NOT NOTED HERE.
- CONTACT COLIN MACKENZIE (415.278.6007) WITH MOD PIZZA FOR ADDITIONAL INFORMATION ABOUT EQUIPMENT SHOWN.

**FLAG NOTES**

- PROVIDE 34" C. W/ PULLSTRING TO ACCESSIBLE CEILING SPACE ABOVE TTB.
- PROVIDE DUAL GANG OUTLET BOX WITH MUD RING FOR SPEAKER WIRING.



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ARCHITECT OF RECORD



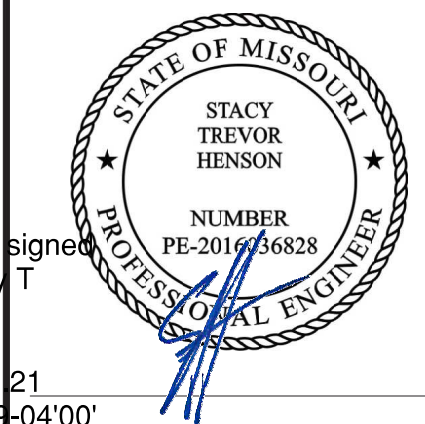
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MOD LEE'S SUMMIT 460 NW CHIPMAN RD LEE'S SUMMIT, MO 64086

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E-601 ELECTRICAL SCHEDULES

CHECKED: EAF DRAWN: TMAA

LIGHTING FIXTURE SCHEDULE

Table with columns: TYPE, DESCRIPTION, LAMP, WATTS/FIXT, FIXTURE COUNTS. Lists various lighting fixtures like recessed downlights, track heads, and pendant lights.

NOTES: CONTRACTOR TO VERIFY ALL QUANTITIES WITH SHEET E-111 AND A-121 PRIOR TO ORDERING AND REPORT ANY INCONSISTENCIES TO THE ARCHITECT AND DESIGN TEAM. CONTRACTOR TO VERIFY ALL CORD LENGTHS PRIOR TO ORDER. LONGER CORD LENGTH REQUIRED DUE TO HIGH CEILING HEIGHT

KITCHEN EQUIPMENT CONNECTION SCHEDULE

Table with columns: QUANTITY, TAG, EQUIPMENT, MANUFACTURER, MODEL, VOLTS/PHASE, AMPS, HP, MTG. HEIGHT, NOTES. Lists kitchen equipment like pizza oven, refrigerator, and coffee maker.

GENERAL NOTES

- A. REVIEW ALL FOOD SERVICE PLAN SHEETS FOR ADDITIONAL ELECTRICAL REQUIREMENTS NOT LISTED IN THIS SCHEDULE. B. PROVIDE LIQUID TIGHT FLEXIBLE METAL CONDUIT AND WATER PROOF CONNECTIONS FOR ALL FLEXIBLE DIRECT CONNECTIONS.

SPECIFIC NOTES

- 1. PROVIDE SHUNT TRIP BREAKERS FOR "POWER OFF" CONTROL OF ALL EQUIPMENT UNDER HOOD BY FIRE SUPPRESSION SYSTEM. 2. PROVIDE DATA CONNECTION FOR POS TERMINAL COORDINATE LOCATION WITH OWNER.

MECHANICAL EQUIPMENT CONNECTION SCHEDULE

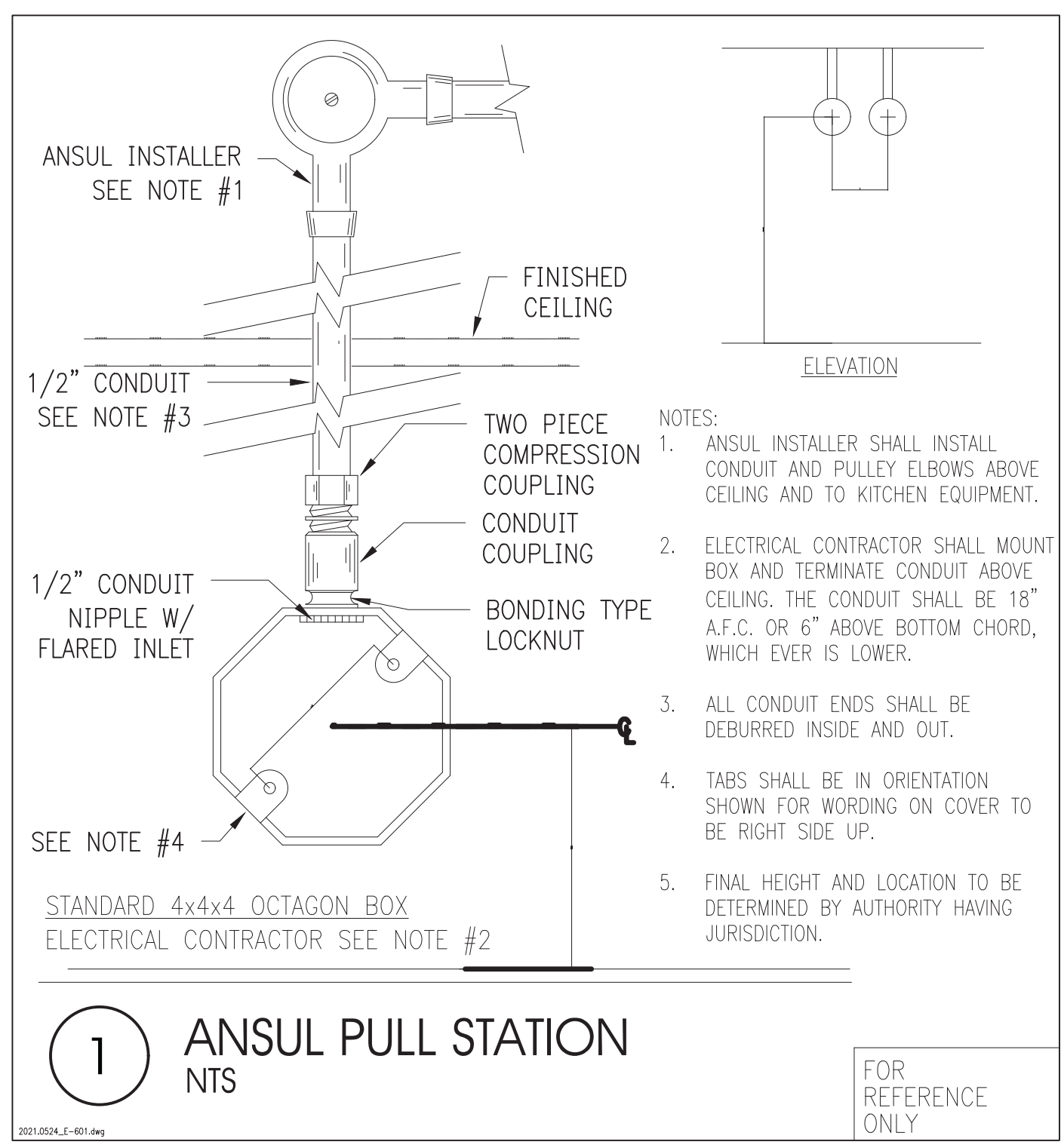
Table with columns: TAG, DESCRIPTION, HP/KWVA, VOLTS/PHASE, FLA, MOCP, DISC. SWITCH, CIRCUIT, REMARKS, NOTES. Lists mechanical equipment like roof top units and exhaust fans.

GENERAL EQUIPMENT CONNECTION SCHEDULE NOTES/APPLIES TO ALL EQUIPMENT LISTED IN THE SCHEDULE

- A. THE ABOVE INFORMATION FOR SPECIFIC MANUFACTURER. THE ACTUAL MANUFACTURER FOR THE EQUIPMENT MAY BE DIFFERENT. COORDINATE WITH MECHANICAL EQUIPMENT SUBMITTALS FOR ACTUAL LOADS, CIRCUIT AMPACITY AND OVERCURRENT PROTECTION REQUIREMENTS PRIOR TO ELECTRICAL ROUGH IN.

SCHEDULE NOTES/APPLIES TO ALL SPECIFIC EQUIPMENT AS NOTED IN "NOTES" COLUMN

- 1. CONNECT TO TIMER SWITCH AT BACK OF HOUSE FOR CONTROL. 2. REFER TO CAPTIVE-AIRE SYSTEM DETAILS ON H-SHEETS FOR MORE INFORMATION.



1 ANSUL PULL STATION NTS

FOR REFERENCE ONLY





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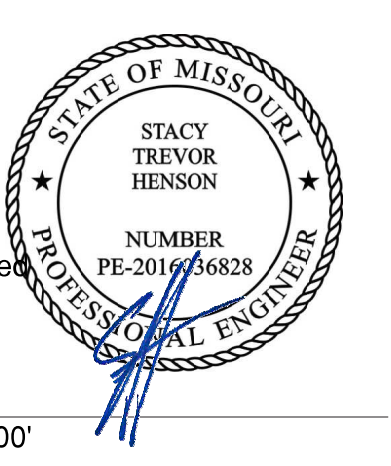
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ISSUED / REVISED DATE BUILDING COMMENTS 10.18.21 DESIGN UPGRADES 10.18.21

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E-602 RISER DIAGRAM AND PANEL SCHEDULES

CHECKED: EAF DRAWN: TMAA

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GENERAL NOTES

- 1. CONDUCTOR SIZES SHOWN ARE COPPER UNLESS NOTED OTHERWISE.
2. LOAD CALCULATIONS SHOWN IS FOR MOD PIZZA TENANT AND FEEDER ONLY. LANDLORD RESPONSIBLE FOR ELECTRICAL SERVICE AND LOAD CALCULATION AND VERIFICATION OF EXISTING SERVICE CAPACITY.
3. LANDLORD PROVIDING CONDUIT STUB UP TO SWITCH AND CONDUCTORS.
4. LANDLORD PROVIDING CONDUIT SAFETY SWITCH, FUSES, PANEL MP WITH BREAKERS.
5. EXISTING ELECTRICAL SYSTEM PROVIDED BY LANDLORD. E.C TO VERIFY EXISTING CONDITIONS AND COORDINATE WITH ENGINEER IF ANY DISCREPANCY.

EXISTING PANEL EL - SECTION 2

Table with columns: NOTES, CKT, LOAD SERVED, COND, PHASE, NEUT, GND, BKR, DMD, L1, L2, L3, DMD, BKR, COND, PHASE, NEUT, GND, LOAD SERVED, CKT, NOTES. Includes details for LOCATION, MAIN, SYSTEM, CONN. LOAD, FEED, and GROUND BUS.

Summary table for Section 2 showing INTERRUPT RATING, LOADS (IN VA), CONNECTED, DEMAND FACTOR, MINIMUM FEEDER, REMAINING CONTINUOUS LOADS, NON-CONTINUOUS LOADS, MISC. DEMAND LOADS, TOTAL CONNECTED LOAD, and TOTAL DEMAND LOAD.

- Note 1. Feeder size: SEE RISER DIAGRAM
Note 2. TO BE CONTROLLED THROUGH LIGHTING CONTACTOR. REFER TO DETAIL 3/E-111.
Note 3. PROVIDE HACR RATED BREAKER.
Note 4. SIZE BREAKER AND CONDUCTORS PER MANUFACTURER'S SPECIFICATION FOR KVA RATING OF BUCK-BOOST TRANSFORMER SUPPLIED.
Note 5. PROVIDE SHUNT-TRIP BREAKER.

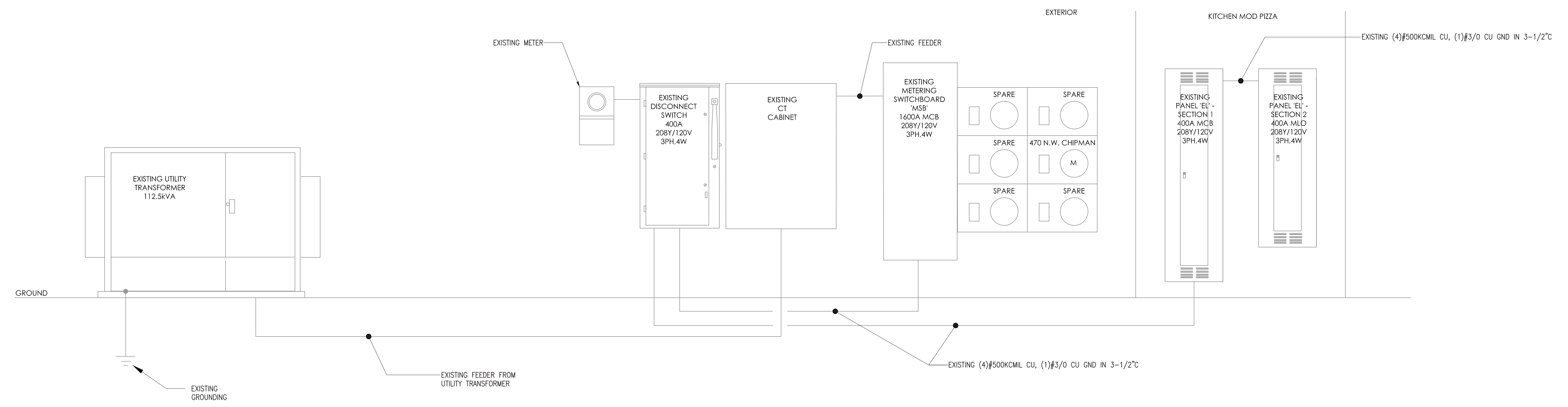
EXISTING PANEL EL - SECTION 1

Table with columns: NOTES, CKT, LOAD SERVED, COND, PHASE, NEUT, GND, BKR, DMD, L1, L2, L3, DMD, BKR, COND, PHASE, NEUT, GND, LOAD SERVED, CKT, NOTES. Includes details for LOCATION, MAIN, SYSTEM, CONN. LOAD, FEED, and GROUND BUS.

Summary table for Section 1 showing INTERRUPT RATING, LOADS (IN VA), CONNECTED, DEMAND FACTOR, MINIMUM FEEDER, REMAINING CONTINUOUS LOADS, NON-CONTINUOUS LOADS, MISC. DEMAND LOADS, TOTAL CONNECTED LOAD, and TOTAL DEMAND LOAD.

- Note 1. Feeder size: SEE RISER DIAGRAM
Note 2. TO BE CONTROLLED THROUGH LIGHTING CONTACTOR. REFER TO DETAIL 3/E-111.
Note 3. PROVIDE HACR RATED BREAKER.
Note 4. SIZE BREAKER AND CONDUCTORS PER MANUFACTURER'S SPECIFICATION FOR KVA RATING OF BUCK-BOOST TRANSFORMER SUPPLIED.
Note 5. PROVIDE SHUNT-TRIP BREAKER.

1 PANEL SCHEDULES NO SCALE



2 EXISTING ONE - LINE DIAGRAM (FOR INFORMATION ONLY) NO SCALE

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**DIVISION 0 – BIDDING AND CONTRACT REQUIREMENTS**

- 00500 **AGREEMENT FORMS**
- A. THE AA A117 "ABBREVIATED FORM OF AGREEMENT BETWEEN TENANT AND CONTRACTOR", SHALL GOVERN THE WORK.
- 00700 **GENERAL CONDITIONS**
- A. THE "GENERAL CONDITIONS OF THE CONTRACT FOR CONSTRUCTION," AA DOCUMENT A201, 1997 EDITION, SHALL GOVERN THE WORK. COPIES MAY BE OBTAINED AT A NOMINAL CHARGE FROM THE AA OFFICE, 1911 15TH AVE, SEATTLE, WA 98101; 206/448-4926.
- B. THE FOLLOWING SUPPLEMENTS THE "GENERAL CONDITIONS OF THE CONTRACT FOR CONSTRUCTION," AA DOCUMENT A201, 1997 EDITION. ALL UNALTERED PROVISIONS OF THE GENERAL CONDITIONS SHALL REMAIN IN EFFECT.

- ARTICLE 1. GENERAL PROVISIONS
- A. ADD THE FOLLOWING NEW SUBPARAGRAPHS TO 1.2 CORRELATION AND INTENT OF THE CONTRACT DOCUMENTS:
- \*1.2.4 DIVISION 1 SPECIFICATION SECTIONS—GENERAL REQUIREMENTS, COVER THE EXECUTION OF ALL SECTIONS OF THE SPECIFICATIONS.
- \*1.2.6 THE REFERENCE STANDARDS REFERRED TO IN THE CONTRACT DOCUMENTS SHALL BE THE EDITION IN EFFECT AT THE TIME OF THE AGREEMENT, UNLESS SPECIFICALLY STATED OTHERWISE.
- \*1.2.7 EXCEPT AS OTHERWISE PROVIDED IN THE AGREEMENT, DOCUMENTS NUMBERED 00000 THROUGH 04999, AND BOUND IN FRONT OF THE "GENERAL CONDITIONS OF THE CONTRACT FOR CONSTRUCTION" IN THE PROJECT MANUAL, CONSIST OF INTRODUCTORY INFORMATION, BIDDING REQUIREMENTS, AND INFORMATION AVAILABLE TO THE CONTRACTOR, AND ARE NOT PART OF THE CONTRACT.
- B. ADD THE FOLLOWING NEW SUBPARAGRAPHS TO 1.4 INTERPRETATION:
- \*1.4.2 SPECIFICATIONS AND NOTES ARE WRITTEN IN IMPERATIVE AND ABBREVIATED FORM. IMPERATIVE LANGUAGE OF THE TECHNICAL SECTIONS IS DIRECTED AT THE CONTRACTOR, UNLESS SPECIFICALLY NOTED OTHERWISE. INCOMPLETE SENTENCES SHALL BE COMPLETED BY INSERTING "SHALL," "SHALL BE," "THE CONTRACTOR SHALL," AND SIMILAR MANDATORY PHRASES BY INFERENCE. THE WORDS "SHALL BE" SHALL BE SUPPLIED BY INFERENCE WHERE A COLUMN (3) IS USED.
- \*1.4.3 WHERE "AS SHOWN," "AS DETAILED," OR WORDS OF SIMILAR MEANING ARE USED, REFERENCES TO THE DRAWINGS ARE INTENDED UNLESS STATED OTHERWISE. WHERE "AS DIRECTED," "AS SELECTED," "AS APPROVED," OR WORDS OF SIMILAR MEANING ARE USED, IT SHALL BE UNDERSTOOD THAT "BY THE ARCHITECT" FOLLOWS UNLESS STATED OTHERWISE. "AS NECESSARY" SHALL BE UNDERSTOOD TO MEAN "AS NECESSARY FOR A COMPLETE AND FULLY FUNCTIONING INSTALLATION IN ACCORDANCE WITH REQUIREMENTS OF THE CONTRACT DOCUMENTS, APPLICABLE CODES AND JURISDICTIONAL REQUIREMENTS, AND ACCEPTED TRADE PRACTICES." "FURNISH" MEANS "CONTRACTOR SHALL PROCURE, PAY FOR, AND DELIVER," "INSTALL," MEANS "CONTRACTOR SHALL SET IN POSITION AND CONNECT OR ADJUST FOR FINAL USE," "PROVIDE" MEANS "CONTRACTOR SHALL FURNISH AND INSTALL."

- ARTICLE 2. TENANT
- NO MODIFICATIONS.
- ARTICLE 3. CONTRACTOR
- A. DELETE SUBPARAGRAPH 3.7.1, AND SUBSTITUTE THE FOLLOWING:
- \*3.7.1 UNLESS OTHERWISE PROVIDED IN THE CONTRACT DOCUMENTS, THE TENANT WILL PAY FOR THE GENERAL PLAN CHECK FEE AND THE BUILDING PERMIT. THE CONTRACTOR SHALL SECURE AND PAY FOR ALL OTHER PERMITS, GOVERNMENTAL FEES, LICENSES, AND INSPECTIONS NECESSARY FOR THE PROPER EXECUTION AND COMPLETION OF THE WORK."
- ARTICLE 4. ADMINISTRATION OF THE CONTRACT
- A. ADD THE FOLLOWING SENTENCE TO SUBPARAGRAPH 4.2.4:
- "COPIES OR MEVOS OF ALL DIRECT COMMUNICATIONS BETWEEN THE TENANT AND CONTRACTOR FACILITATING CONTRACT ADMINISTRATION SHALL BE PROMPTLY TRANSMITTED TO THE ARCHITECT BY THE PARTY INITIATING THE COMMUNICATION."
- ARTICLE 5. SUBCONTRACTORS
- A. ADD THE FOLLOWING NEW SUBPARAGRAPH TO 5.1 DEFINITION:
- \*5.1.3 THE TERMS "INSTALLER," "FABRICATOR," AND "SUPPLIER," AS REFERENCED IN THE CONTRACT DOCUMENTS, OR IN THE CONTRACT DOCUMENTS, REFER TO THE CONTRACTOR, A SUBCONTRACTOR, OR A SUB-SUBCONTRACTOR."
- ARTICLE 6. CONSTRUCTION BY TENANT OR BY SEPARATE CONTRACTORS
- NO MODIFICATIONS.
- ARTICLE 7. CHANGES IN THE WORK
- NO MODIFICATIONS.
- ARTICLE 8. TIME
- A. ADD THE FOLLOWING NEW SUBPARAGRAPH TO 8.3 DELAYS AND EXTENSIONS OF TIME:
- \*8.3.4 SHOULD AN EXTENSION OF TIME BE GRANTED BY THE TENANT TO THE CONTRACTOR, THE CONTRACTOR SHALL INDEMNIFY AND SAVE HARMLESS THE TENANT FROM THE LOSS TO ANY SUBCONTRACTOR CAUSED BY SUCH EXTENSION OF TIME."
- ARTICLE 9. PAYMENTS AND COMPLETION
- NO MODIFICATIONS.
- ARTICLE 10. PROTECTION OF PERSONS AND PROPERTY
- NO MODIFICATIONS.
- ARTICLE 11. INSURANCE AND BONDS
- NO MODIFICATIONS.
- ARTICLE 12. UNCOVERING AND CORRECTION OF WORK
- NO MODIFICATIONS.
- ARTICLE 13. MISCELLANEOUS PROVISIONS
- NO MODIFICATIONS.
- ARTICLE 14. TERMINATION OR SUSPENSION OF THE CONTRACT
- NO MODIFICATIONS.

**DIVISION 1 – GENERAL REQUIREMENTS**

- 01100 **SUMMARY**
- A. THIS SPECIFICATION IDENTIFIES REQUIREMENTS FOR SEVERAL PRODUCTS, AND MAY CONTAIN ELEMENTS WHICH DO NOT APPLY TO THIS PARTICULAR PROJECT. WHERE NOTED IN THE SPECIFICATIONS, PLEASE REFER TO THE DRAWINGS TO DETERMINE WHETHER THE SPECIFIED ELEMENT APPLIES TO THIS PROJECT.
- B. USE OF PREMISES:
- UNLESS NOTED OTHERWISE, CONTRACTOR SHALL HAVE FREE AND COMPLETE USE OF THE SITE.
  - COORDINATE CONSTRUCTION SCHEDULE AND OPERATIONS WITH THE TENANT.
  - LIMIT NOISE PRODUCTIONS WORK TO THE HOURS BETWEEN 7 AM AND 5 PM MONDAY THROUGH FRIDAY, AND 9 AM AND 6 PM ON SATURDAYS AND SUNDAYS. COOPERATE WITH TENANT TO MINIMIZE NOISE IMPACTS ON ADJACENT PROPERTIES.
- C. SPECIAL WORK REQUIREMENTS:

- 01500 **TEMPORARY FACILITIES AND CONTROLS**
- A. TEMPORARY UTILITIES— PROVIDE TEMPORARY UTILITIES, SERVICES, AND CONSTRUCTION AS REQUIRED TO PERFORM THE WORK. COORDINATE ALL TEMPORARY FACILITIES AND CONTROLS WITH THE TENANT.
1. ELECTRICITY: CONNECT TO EXISTING SERVICE. TENANT WILL PAY COSTS OF ENERGY USED. TAKE MEASURES TO CONSERVE ENERGY.
2. LIGHTING: PERMANENT LIGHTING MAY BE USED DURING CONSTRUCTION. PROVIDE ADDITIONAL TEMPORARY LIGHTING AS REQUIRED. MAINTAIN LIGHTING AND MAKE ROUTINE REPAIRS.

- 02000 **HEATING AND VENTILATION: PERMANENT SYSTEM MAY BE USED. THE TENANT WILL PAY FOR THE COST OF ENERGY USED. MAINTAIN SYSTEM DURING OPERATION.**
4. WATER: UTILIZE EXISTING FACILITIES. TENANT WILL PAY FOR WATER USED.
5. SANITARY FACILITIES: PROVIDE AND MAINTAIN REQUIRED PORTABLE FACILITIES AND ENCLOSURES.

1. COMPLY WITH ALL DESIGN AND CONSTRUCTION REQUIREMENTS OF THE BUILDING OWNER. NOTIFY THE TENANT IMMEDIATELY IF THE BUILDING OWNER'S REQUIREMENTS CONFLICT WITH REQUIREMENTS OF THE CONTRACT DOCUMENTS.
2. LIMIT USE OF PREMISES TO ONLY THOSE AREAS INVOLVED IN THE CONSTRUCTION OPERATIONS AND AS REQUIRED FOR ACCESS.
3. COORDINATE USE OF PREMISES UNDER DIRECTION OF THE TENANT AND THE BUILDING OWNER, AND IN ACCORDANCE WITH THE REQUIREMENTS OF JURISDICTIONAL CODE AUTHORITIES.
4. OCCUPANCY REQUIREMENTS: ADJACENT TENANT SPACES MAY BE OCCUPIED. COOPERATE WITH THE TENANT AND THE BUILDING OWNER TO MINIMIZE CONFLICT, AND TO FACILITATE THE OPERATIONS OF ADJACENT TENANTS.
- D. SEPARATE WORK:
- ITEMS NOTED "NOT IN CONTRACT," WILL BE FURNISHED AND INSTALLED BY OTHERS.
  - PERFORM WORK SO AS TO ALLOW THE PERFORMANCE OF WORK BY OTHER CONTRACTORS.
- E. PRODUCTS FURNISHED BY TENANT FOR INSTALLATION BY THE CONTRACTOR (FOCI):
- COORDINATE WORK TO FACILITATE INSTALLATION OF PRODUCTS FURNISHED BY THE TENANT FOR INSTALLATION BY THE CONTRACTOR.
  - TENANT'S RESPONSIBILITIES:
    - ARRANGE FOR AND DELIVER SHOP DRAWINGS, PRODUCT DATA, AND SAMPLES, TO CONTRACTOR.
    - ARRANGE AND PAY FOR PRODUCT DELIVERY TO SITE.
    - UPON DELIVERY, INSPECT PRODUCTS JOINTLY WITH CONTRACTOR.
    - SUBMIT CLAIMS FOR TRANSPORTATION DAMAGE.
    - ARRANGE FOR REPLACEMENT OF DAMAGED, DEFECTIVE, OR MISSING ITEMS.
    - ARRANGE FOR MANUFACTURERS' WARRANTIES, INSPECTIONS, AND SERVICE.
  - CONTRACTOR'S RESPONSIBILITIES:
    - REVIEW SHOP DRAWINGS, PRODUCT DATA, AND SAMPLES.
    - RECEIVE AND UNLOAD PRODUCTS AT SITE; INSPECT FOR COMPLETENESS, FOR DAMAGE, JOINTLY WITH TENANT.
    - HANDLE, STORE, INSTALL AND FINISH PRODUCTS.
    - REPAIR OR REPLACE ITEMS DAMAGED BY WORK OF THIS CONTRACT.
- F. APPLICATIONS FOR PAYMENT: SUBMIT THREE COPIES OF EACH APPLICATION UNDER PROCEDURES OF SECTION 01330 ON AA G702 – APPLICATION AND CERTIFICATE FOR PAYMENT, OR A FORM APPROVED BY THE TENANT.
- G. COORDINATION:
- COORDINATE WORK TO ASSURE EFFICIENT AND ORDERLY SEQUENCE OF INSTALLATION OF CONSTRUCTION ELEMENTS, WITH PROVISIONS FOR ACCOMMODATING ITEMS INSTALLED LATER.
  - COORDINATE SPACE REQUIREMENTS FOR MECHANICAL AND ELECTRICAL SYSTEMS. MAKE RUNS PARALLEL WITH LINES OF BUILDING. UTILIZE SPACES EFFICIENTLY, AND MAXIMIZE ACCESSIBILITY FOR MAINTENANCE, REPAIR, AND OTHER INSTALLATIONS.
  - EXECUTE CUTTING AND PATCHING TO INTEGRATE ELEMENTS OF THE WORK. REMOVE ALL-TIMED AND DEFECTIVE WORK AND REPLACE WITH NEW WORK CONFORMING TO THE REQUIREMENTS OF THE CONTRACT DOCUMENTS.
  - UNCOVER DEFECTIVE AND NONCONFORMING WORK AND FURNISH SAMPLES AS REQUIRED FOR TESTING.
  - SEAL PENETRATIONS THROUGH FLOORS, WALLS, AND CEILING.
- H. FIELD ENGINEERING:
- PROVIDE FIELD ENGINEERING SERVICES, ESTABLISH GRADES, LINES, AND LEVELS, BY USE OF RECOGNIZED ENGINEERING SURVEY PRACTICES.
  - CONTROL POINTS ARE THOSE SHOWN ON DRAWINGS. LOCATE AND PROJECT CONTROL AND REFERENCE POINTS. NOTIFY THE ARCHITECT IF REFERENCE POINTS CANNOT BE LOCATED.
- I. REQUEST FOR INFORMATION (RFI):
- ALLOW TIME TO RESOLVE QUESTIONS CONCERNING THE CONSTRUCTION DOCUMENTS WITH THE TENANT.
  - USE FORM AS APPROVED BY THE TENANT.

- 02300 **ALTERNATES**
- A. STATE THE COST TO BE ADDED OR SUBTRACTED FROM THE CONTRACT AMOUNT FOR EACH OF THE FOLLOWING ALTERNATES:
- ALTERNATE NO. 1:
    - UNDER BASIC BID: PROVIDE CONSTRUCTION AND FINISH WORK AS INDICATED ON THE DRAWINGS FOR [ ]
    - UNDER ALTERNATE NO. 1: PROVIDE CONSTRUCTION AND FINISH WORK AS INDICATED ON THE DRAWINGS FOR [ ] IN LIEU OF WORK INDICATED FOR [ ]

- 02319 **PROTECT FINISHES**
- A. REPAIR EXISTING SURFACES AND CONSTRUCTION AS NECESSARY TO MAKE WORK COMPLETE, WITH ALL COMPONENTS MATCHING AND CONSISTENT.
- B. PROVIDE A SMOOTH, EVEN, AND IMPASSIBLE TRANSITION TO NEW CONSTRUCTION, WHEN FINISHED SURFACES ARE CUT SO THAT AN IMPASSIBLE TRANSITION WITH NEW WORK IS NOT POSSIBLE, TERMINATE EXISTING SURFACE ALONG THE NEAREST BREAK LINE, JOINT, OR CORNER.

- 02320 **CUTTING AND PATCHING**
- A. PATCH EXISTING SURFACES AND CONSTRUCTION AS NECESSARY TO MAKE WORK COMPLETE, WITH ALL COMPONENTS MATCHING AND CONSISTENT.
- B. PROVIDE A SMOOTH, EVEN, AND IMPASSIBLE TRANSITION TO NEW CONSTRUCTION, WHEN FINISHED SURFACES ARE CUT SO THAT AN IMPASSIBLE TRANSITION WITH NEW WORK IS NOT POSSIBLE, TERMINATE EXISTING SURFACE ALONG THE NEAREST BREAK LINE, JOINT, OR CORNER.
- C. PATCHING OF EXISTING CONCRETE SLABS ON GRADE:
  - ENSURE THAT BELOW GRADE CONSTRUCTION IS COMPLETE IN THE SLAB AREA TO BE PATCHED.
  - REPLACE EXISTING SUBGRADE MATERIALS TO MATCH EXISTING. REPLACE AND MAKE CONTIGUOUS VAPOR BARRIERS AND OTHER SIMILAR CONSTRUCTION DISTURBED OR DAMAGED DURING DEMOLITION OR CONSTRUCTION OPERATIONS.
  - RECOMPACT EXISTING SUBGRADE TO 95 PERCENT OF MAXIMUM DRY DENSITY AS DETERMINED BY ASTM D1557.
  - PATCH SLAB WITH CONCRETE HAVING A MINIMUM 28 DAY STRENGTH OF 3000 PSI.
  - FINISH CONCRETE TO MATCH ADJACENT SURFACES.
- D. MAJOR PATCHING PROCEDURES SHALL BE REVIEWED WITH THE TENANT, PRIOR TO PROCEEDING.

- 02330 **SUBMITTAL PROCEDURES**
- A. SUBMITTAL PROCEDURE:
- IDENTIFY DEVIATIONS FROM CONTRACT DOCUMENTS. LEAVE SPACE FOR CONTRACTOR AND TENANT REVIEW STAMPS.
  - REVIEW AND SIGN EACH SUBMITTAL, PRIOR TO SUBMITTAL TO THE TENANT. UNSIGNED SUBMITTALS WILL BE RETURNED BY THE TENANT.
  - UNLESS SPECIFIED OTHERWISE, SUBMIT THE NUMBER OF SUBMITTALS THE CONTRACTOR REQUIRES, PLUS ONE WHICH WILL BE RETAINED BY THE TENANT.
  - TRANSFER EACH ITEM TO THE TENANT UNDER THE CONTRACTOR'S STANDARD TRIANGULAR FORM AS APPROVED BY THE TENANT. INCLUDE PRODUCT NAME, CONTRACTOR NAME, SUBCONTRACTOR OR SUPPLIER NAME, AND DRAWING SHEET, DETAIL NUMBER, OR SPECIFICATION SECTION NUMBER CORRESPONDING TO THE SUBMITTAL AS APPROPRIATE.
  - MAKE SUBMITTALS AS REQUIRED TO CAUSE NO DELAY IN THE WORK. ALLOW SUFFICIENT TIME FOR POSSIBLE REVISION AND RESUBMITTAL OF REJECTED SUBMITTALS. COORDINATE SUBMITTAL OF RELATED ITEMS.
  - REVERSE AND RESEMBLE REJECTED SUBMITTALS AS REQUIRED TO OBTAIN APPROVAL. IDENTIFYING CHANGES MADE SINCE PREVIOUS SUBMITTAL.
- B. PROGRESS AND VALUE SCHEDULES:
- PROGRESS SCHEDULE: SUBMIT HORIZONTAL BAR CHART WITH SEPARATE BAR FOR EACH MAJOR TRADE OR OPERATION, IDENTIFYING FIRST WORK DAY OF EACH WEEK.
    - SCHEDULE OF VALUES:
      - SUBMIT TYPED SCHEDULE ON AA FORM G703, OR OTHER FORM AS APPROVED BY THE TENANT.
      - SUBMIT ONE TO EACH MAJOR TRADE OR CATEGORY OF WORK.
      - INCLUDE A LINE ITEM AMOUNT FOR EACH ALLOWANCE.
      - INCLUDE IN EACH LINE ITEM A DIRECTLY PROPORTIONAL AMOUNT OF CONTRACTOR'S OVERHEAD AND PROFIT.
    - SUBMIT PROGRESS AND VALUE SCHEDULES IN DUPLICATE WITHIN 5 DAYS AFTER NOTICE TO PROCEED.
    - SUBMIT REVISED SCHEDULES WITH EACH APPLICATION FOR PAYMENT; REVISED SCHEDULES SHALL REFLECT CHANGES, INCLUDING CHANGE ORDERS, SINCE PREVIOUS SUBMITTAL.
  - SHOP DRAWINGS, PRODUCT DATA AND SAMPLES:
    - SHOP DRAWINGS:
      - NUMBER OF COPIES: UNLESS OTHERWISE SPECIFIED, SUBMIT TO THE TENANT ONE LEGIBLE RIGHT-HAND YELLOW REPRODUCIBLE AND ONE COPY FOR REVIEW, EXCEPT THAT SHOP DRAWINGS 11 X 17 OR SMALLER MAY BE SUBMITTED IN THE FORM OF TWO BLACKLINE OR ELECTROSTATIC BOND COPIES.
      - THE TENANT WILL RETURN ONE COPY TO CONTRACTOR WITH CORRECTIONS, NOTATIONS AND TENANT'S STAMP INDICATING ACTION TO BE TAKEN.
      - UNLESS SPECIFIED OTHERWISE, SHOP DRAWINGS SHALL SHOW QUANTITIES, MATERIALS, METHODS OF ASSEMBLY, ADJACENT CONSTRUCTION, DIMENSIONS, AND ALL OTHER APPROPRIATE INFORMATION TO FULLY ILLUSTRATE THE WORK.
    - PRODUCT DATA:
      - MARK EACH COPY TO IDENTIFY APPLICABLE PRODUCTS, MODELS, OPTIONS AND OTHER DATA, SUPPLEMENT MANUFACTURE'S STANDARD DATA TO PROVIDE INFORMATION UNIQUE TO THE WORK.
      - SUBMIT THE NUMBER OF COPIES WHICH CONTRACTOR REQUIRES, PLUS 2 COPIES WHICH WILL BE RETAINED BY THE TENANT.
    - SAMPLES:
      - SUBMIT SAMPLES AS SPECIFIED IN THE TECHNICAL SECTIONS.
      - INCLUDE IDENTIFICATION ON EACH SAMPLE GIVING FULL INFORMATION.
      - SUBMIT THREE SAMPLES, ONE OF WHICH WILL BE RETAINED BY TENANT, UNLESS INDICATED OTHERWISE IN THE TECHNICAL SECTION.
    - CERTIFICATES: SUBMIT THE ORIGINAL SIGNED VERSION TO THE TENANT.
  - E. THE TENANT MAY FURNISH DOCUMENTS AND ELECTRONIC DATA WHICH MAY BE USED AS BASES FOR PREPARATION OF SHOP DRAWINGS. THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR THE ACCURACY AND COMPLETENESS OF SUCH INFORMATION TO SUBCONTRACTORS AND SUPPLIERS. REQUEST DOCUMENTS BY SUBMITTING AN EXCLUDED COPY OF THE "REQUEST FOR TRANSFER OF DOCUMENTS" FORM, ATTACHED AT THE END OF THIS SECTION. USE OF SUCH DOCUMENTS IMPLIES CONTRACTORS' AND SUBCONTRACTORS' AGREEMENT TO THE TERMS DESCRIBED ON THE FORM. FULLY DESCRIBE REQUIREMENTS FOR EACH REQUEST.

**04500 QUALITY CONTROL**

- A. STANDARDS: COMPLY WITH INDUSTRY STANDARDS EXCEPT WHEN MORE RESTRICTIVE TOLERANCES OR SPECIFIED REQUIREMENTS INDICATE MORE RIGID STANDARDS OR MORE PRECISE WORKMANSHIP.
- B. PERFORM ALL WORK TO MEET OR EXCEED THE REQUIREMENTS OF ALL APPLICABLE CODES, ORDINANCES, LAWS, REGULATIONS, SAFETY ORDERS, AND DIRECTIVES FROM AUTHORITIES HAVING JURISDICTION OVER THE WORK.
- C. PERSONS WORK WITH PERSONS QUALIFIED TO PROVIDE WORKMANSHIP OF SPECIFIED QUALITY.
- D. MOCK-UPS:
- PROVIDE MOCK-UPS AS SPECIFIED IN THE INDIVIDUAL SPECIFICATION SECTIONS. PROVIDE ADDITIONAL MOCK-UPS, AS REQUIRED BY THE TENANT, UNTIL APPROVAL IS OBTAINED.
  - DO NOT PROCEED WITH SUBSEQUENT WORK UNTIL APPROVAL OF THE MOCK-UP IS OBTAINED.
  - APPROVAL OF MOCK-UP SHALL BE THE STANDARD WORKMANSHIP AND MATERIALS FOR THE REMAINDER OF THE WORK SIMILAR TO THE MOCK-UP.
  - MAINTAIN MOCK-UP IN APPROVED CONDITION, UNTIL DIRECTED OTHERWISE.
  - UNLESS SPECIFIED OTHERWISE, REMOVE MOCK-UP AT COMPLETION, WHEN DIRECTED BY TENANT.
- E. INSTALLED PRODUCTS IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS, WHERE CONFLICT EXISTS BETWEEN MANUFACTURER'S RECOMMENDATIONS AND THE SPECIFIED REQUIREMENTS. NOTIFY THE TENANT IMMEDIATELY.
- F. EXAMINATION PRIOR TO INSTALLATION:
- PRIOR TO STARTING WORK, CAREFULLY INSPECT INSTALLED WORK OF OTHER TRADES AND VERIFY THAT SUCH WORK IS COMPLETE TO THE POINT WHERE WORK THIS SECTION MAY PROPERLY COMMENCE. NOTIFY THE TENANT IN WRITING OF CONDITIONS DETRIMENTAL TO THE PROPER AND TIMELY COMPLETION OF THE WORK.
  - DO NOT BEGAIN INSTALLATION UNTIL ALL UNSATISFACTORY CONDITIONS ARE RESOLVED. BEGINNING WORK CONSTITUTES ACCEPTANCE OF SITE CONDITIONS AND RESPONSIBILITY FOR DEFECTIVE INSTALLATION CAUSED BY PRIOR OBSERVABLE CONDITIONS.

- G. TESTING LABORATORY SERVICES:
- THE TENANT WILL ARRANGE FOR THE SERVICES OF AN INDEPENDENT TESTING LABORATORY TO INSPECT AND TEST THE WORK TO VERIFY COMPLIANCE WITH THE CONTRACT DOCUMENTS. REPORTS OF ALL INSPECTIONS AND TESTS SHALL BE SUBMITTED TO THE TENANT FOR REVIEW.
  - CONTRACTOR'S RESPONSIBILITIES:
    - COOPERATE WITH TESTING LABORATORY PERSONNEL, AND FURNISH ACCESS, TOOLS, SAMPLES, CERTIFICATIONS, TEST REPORTS, DESIGN MIXES, EQUIPMENT, STORAGE, AND ASSISTANCE AS REQUESTED BY THE TESTING LABORATORY.
    - NOTIFY TENANT AND TESTING LABORATORY 48 HOURS PRIOR TO EXPECTED TIME FOR OPERATIONS REQUIRING INSPECTION AND TESTING. WHEN TESTS OR INSPECTIONS CANNOT BE PERFORMED, THROUGH THE FAULT OF THE CONTRACTOR, REMEMBRANCE THE TENANT FOR THE ADDITIONAL COSTS INCURRED.
    - REMOVE AND REPLACE ALL WORK FOUND NOT COMPLYING WITH THE CONTRACT DOCUMENTS, REMEDIES SHALL BE IN ACCORDANCE WITH THE CONTRACT DOCUMENTS AND CODE REQUIREMENTS.
    - IF INITIAL TESTS AND INSPECTIONS INDICATE DEFICIENT WORK, THE CONTRACTOR SHALL REIMBURSE THE TENANT FOR THE COSTS OF ALL SUBSEQUENT TESTS AND INSPECTIONS RELATED TO THE DEFICIENCY.
    - ALL DAMAGE WHICH MAY OCCUR TO THE WORK AS A RESULT OF NORMAL TESTING OPERATIONS SHALL BE REPAIRED TO MATCH SURROUNDING SURFACES.
    - SCHEDULE TESTING AND INSPECTION SO THAT THE WORK OF TESTING AND INSPECTION PERSONNEL WILL BE AS CONTINUOUS AND BRIEF AS POSSIBLE.
  - TESTS AND INSPECTIONS SHALL BE IN ACCORDANCE WITH CODE REQUIREMENTS.

- 05100 **TEMPORARY FACILITIES AND CONTROLS**
- A. TEMPORARY UTILITIES— PROVIDE TEMPORARY UTILITIES, SERVICES, AND CONSTRUCTION AS REQUIRED TO PERFORM THE WORK. COORDINATE ALL TEMPORARY FACILITIES AND CONTROLS WITH THE TENANT.
1. ELECTRICITY: CONNECT TO EXISTING SERVICE. TENANT WILL PAY COSTS OF ENERGY USED. TAKE MEASURES TO CONSERVE ENERGY.
2. LIGHTING: PERMANENT LIGHTING MAY BE USED DURING CONSTRUCTION. PROVIDE ADDITIONAL TEMPORARY LIGHTING AS REQUIRED. MAINTAIN LIGHTING AND MAKE

- ROUTINE REPAIRS.
3. HEATING AND VENTILATION: PERMANENT SYSTEM MAY BE USED. THE TENANT WILL PAY FOR THE COST OF ENERGY USED. MAINTAIN SYSTEM DURING OPERATION.
4. WATER: UTILIZE EXISTING FACILITIES. TENANT WILL PAY FOR WATER USED.
5. SANITARY FACILITIES: PROVIDE AND MAINTAIN REQUIRED PORTABLE FACILITIES AND ENCLOSURES.
- B. CONTROLS:
1. DUST CONTROL: PROVIDE POSITIVE METHODS AND APPLY DUST CONTROL MATERIALS TO MINIMIZE RAISING DUST FROM CONSTRUCTION OPERATIONS, AND PROVIDE POSITIVE MEANS TO PREVENT AIRBORNE DUST FROM DISPERSING INTO THE ATMOSPHERE.
2. WATER CONTROL: COMPLY WITH APPLICABLE JURISDICTIONAL REQUIREMENTS REGARDING WATER USAGE, CONSERVATION, DETENTION, POLLUTION, AND PERMITS.
- C. MAINTAIN PEDESTRIAN AND VEHICULAR ACCESS TO SITE AND WITHIN SITE TO PROVIDE UNINTERRUPTED ACCESS.
- TO TEMPORARY CONSTRUCTION FACILITIES, STORAGE AND WORK AREAS.
  - FOR USE BY PERSONS AND EQUIPMENT INVOLVED IN CONSTRUCTION OF PROJECT.
  - FOR USE BY EMERGENCY VEHICLES.
  - TO MINIMIZE IMPACT ON ADJACENT OPERATIONS.
  - FOR FIRE SAFETY: COMPLY WITH APPLICABLE PROVISIONS OF UFC ARTICLE 87 FOR FIRE SAFETY DURING DEMOLITION AND CONSTRUCTION OPERATIONS.
- D. TEMPORARY CONSTRUCTION:
- OBTAIN APPROVAL FROM BUILDING OWNER FOR ALL MODIFICATIONS TO EXISTING SYSTEMS OR FACILITIES NOT INDICATED.
  - REMOVE TEMPORARY SYSTEMS OR FACILITIES WHEN USE IS NO LONGER REQUIRED. CLEAN AND REPAIR DAMAGE CAUSED BY INSTALLATION OR USE OF TEMPORARY SYSTEMS OR FACILITIES.
- F. CONSTRUCTION CLEANING:
- CONTROL ACCUMULATION OF WASTE MATERIALS AND RUBBISH, DAILY DISPOSE OF OFF-SITE OR IN APPROVED CONTAINERS ON SITE.
  - MAINTAIN AREAS FREE OF DUST AND OTHER CONTAMINANTS DURING FINISHING OPERATIONS.

- 01000 **PRODUCT REQUIREMENTS**
- A. DELIVERY, STORAGE AND HANDLING:
- TRANSPORT AND HANDLE PRODUCTS BY METHODS TO AVOID PRODUCT DAMAGE.
  - MANUFACTURED PRODUCTS SHALL REMAIN IN MANUFACTURER'S CONTAINERS OR PACKAGING, UNTIL READY FOR INSTALLATION.
  - UNLESS SPECIFIED OTHERWISE, STORE PRODUCTS IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS.
- B. PRODUCT OPTIONS AND SUBSTITUTIONS:
- WHERE SPECIFICATIONS INDICATE A SINGLE PROPRIETARY PRODUCT, SUBSTITUTIONS WILL NOT BE CONSIDERED. FURNISH PRODUCTS SPECIFIED, EXCEPT WHERE "OR APPROVED" IS USED.
  - SUBSTITUTIONS WILL BE CONSIDERED ONLY FOR THE FOLLOWING REASONS:
    - A PRODUCT BECOMES UNAVAILABLE DUE TO NO FAULT OF THE CONTRACTOR.
    - SUBSEQUENT INFORMATION OR CHANGES INDICATE THAT THE SPECIFIED PRODUCT WILL NOT PERFORM AS INTENDED.
    - DOCUMENT EACH SUBSTITUTION. REQUEST WITH COMPLETE DATA SUBSTANTIATING COMPLIANCE OF PROPOSED SUBSTITUTION WITH CONTRACT DOCUMENTS. REQUESTS FOR SUBSTITUTION SHALL BE MADE IN WRITING TO THE TENANT ON FORM APPROVED BY TENANT. LIMIT EACH REQUEST TO ONE PROPOSED PRODUCT OR SYSTEM. FOR SUBSTITUTIONS PRIOR TO AGREEMENT, SIGNATURE AND PROJECTED COST DATA ARE NOT REQUIRED.
    - A SUBSTITUTION REQUEST CONSTITUTES A REPRESENTATION THAT CONTRACTOR:
      - HAS INVESTIGATED PROPOSED PRODUCT AND HAS DETERMINED THAT IT MEETS OR EXCEEDS, IN ALL RESPECTS, THE SPECIFIED PRODUCT.
      - SHALL PROVIDE THE SAME WARRANTY FOR SUBSTITUTION AS FOR SPECIFIED PRODUCT.
      - WILL COORDINATE REINSTALLATION AND MAKE OTHER CHANGES THAT MAY BE REQUIRED FOR WORK TO BE COMPLETE IN ALL RESPECTS.
      - MAVES CLAIMS FOR ADDITIONAL COSTS THAT MAY SUBSEQUENTLY BECOME APPARENT.
      - AGREES TO PAY ALL COSTS OF REVISION RELATED TO THE SUBSTITUTION.
    - SUBSTITUTIONS WILL NOT BE CONSIDERED WHEN THEY ARE INDICATED OR IMPLIED ON SHOP DRAWINGS OR PRODUCT DATA SUBMITTALS.
    - TENANT AND TENANT WILL DETERMINE ACCEPTABILITY OF PROPOSED SUBSTITUTION, AND WILL NOTIFY CONTRACTOR OF ACCEPTANCE OR REJECTION WITHIN A REASONABLE TIME.
- C. GENERAL PRODUCT INSTALLATION REQUIREMENTS: PERFORM WORK IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS. DO NOT OMIT ANY PREPARATORY STEP OR INSTALLATION PROCEDURE UNLESS SPECIFICALLY MODIFIED OR EXEMPTED BY CONTRACT DOCUMENTS.

- 01200 **CUTTING AND PATCHING**
- A. REPAIR EXISTING SURFACES AND CONSTRUCTION AS NECESSARY TO MAKE WORK COMPLETE, WITH ALL COMPONENTS MATCHING AND CONSISTENT.
- B. PROVIDE A SMOOTH, EVEN, AND IMPASSIBLE TRANSITION TO NEW CONSTRUCTION, WHEN FINISHED SURFACES ARE CUT SO THAT AN IMPASSIBLE TRANSITION WITH NEW WORK IS NOT POSSIBLE, TERMINATE EXISTING SURFACE ALONG THE NEAREST BREAK LINE, JOINT, OR CORNER.
- C. PATCHING OF EXISTING CONCRETE SLABS ON GRADE:
  - ENSURE THAT BELOW GRADE CONSTRUCTION IS COMPLETE IN THE SLAB AREA TO BE PATCHED.
  - REPLACE EXISTING SUBGRADE MATERIALS TO MATCH EXISTING. REPLACE AND MAKE CONTIGUOUS VAPOR BARRIERS AND OTHER SIMILAR CONSTRUCTION DISTURBED OR DAMAGED DURING DEMOLITION OR CONSTRUCTION OPERATIONS.
  - RECOMPACT EXISTING SUBGRADE TO 95 PERCENT OF MAXIMUM DRY DENSITY AS DETERMINED BY ASTM D1557.
  - PATCH SLAB WITH CONCRETE HAVING A MINIMUM 28 DAY STRENGTH OF 3000 PSI.
  - FINISH CONCRETE TO MATCH ADJACENT SURFACES.
- D. MAJOR PATCHING PROCEDURES SHALL BE REVIEWED WITH THE TENANT, PRIOR TO PROCEEDING.

- 01700 **CLOSOUT PROCEDURES**
- A. FINAL CLEANING:
- THOROUGHLY CLEAN ALL SURFACES PRIOR TO FINAL ACCEPTANCE.
  - REMOVE WASTE AND SUPERFLUOUS MATERIALS, RUBBISH, AND CONSTRUCTION FACILITIES FROM THE SITE.
- B. PRODUCT RECORD DOCUMENTS:
- MAINTAIN A COMPLETE SET OF RECORD DRAWINGS WHICH CLEARLY AND NEATLY INDICATE EXACT INSTALLED LOCATIONS OF ITEMS WHICH WILL BE CONCEALED IN THE WORK SUCH AS CONDUIT, PIPING, DUCTS, RENOVATING, MECHANICAL AND ELECTRICAL EQUIPMENT, AND SIMILAR ITEMS. SHOW ALL CHANGES FROM THE CONTRACT DOCUMENTS, AND ALL UNCOVERED EXISTING CONDITIONS WHICH WILL BE SUBSEQUENTLY CONCEALED.
  - RECORD DRAWINGS SHALL BE USED FOR NO OTHER PURPOSE AND SHALL BE STORED SEPARATELY FROM THOSE USED FOR CONSTRUCTION.
  - DOCUMENTS SHALL BE IN SAME FORMAT AS THE CONSTRUCTION DOCUMENTS.
  - KEEP DOCUMENTS CURRENT; DO NOT PERMANENTLY CONCEAL ANY WORK UNTIL RELATED INFORMATION HAS BEEN RECORDED.
  - AS AT CONTRACT CLOSOUT, SUBMIT DOCUMENTS WITH TRANSMITTAL LETTER CONTAINING DATE, PRODUCT TITLE, CONTRACTOR'S NAME AND ADDRESS, LIST OF DOCUMENTS, AND SIGNATURE OF CONTRACTOR.
  - SUBMITTALS: IN ADDITION TO SUBMITTALS REQUIRED BY THE CONDITIONS OF THE CONTRACT, AND SUBMITTALS REQUIRED BY SECTION 01330, FURNISH SUBMITTALS REQUIRED BY GOVERNING AUTHORITIES, AND SUBMIT A FINAL STATEMENT OF ACCOUNTING OWING TOWARD ADJUSTED CONTRACT SUM, PREVIOUS PAYMENTS, AND SUM REMAINING DUE.
  - OPERATION AND MAINTENANCE DATA:
    - SUBMIT COMPLETE DATA FOR EACH PIECE OF EQUIPMENT AND COMPONENTS NOTED IN THE WORK.
    - SUBMIT OPERATION AND MAINTENANCE DATA FOR MECHANICAL AND ELECTRICAL SYSTEMS.
    - ARRANGE IN A BINDER WITH A SECTION FOR EACH SYSTEM.
  - WARRANTIES, GUARANTEES AND BONDS:
    - SUBMIT ALL MANUFACTURER WARRANTIES.
    - FURNISH WRITTEN GUARANTEES FROM EACH SUBCONTRACTOR PERFORMANCE WORK COVERED BY THE ADDITIONAL GUARANTEE REQUIREMENTS SPECIFIED IN THE TECHNICAL SECTIONS. UNLESS SPECIFIED OR APPROVED OTHERWISE, THE GUARANTEE SHALL COMMENCE ON THE DATE OF SUBSTANTIAL COMPLETION.
    - EACH GUARANTEE SHALL BE SIGNED, AND SHALL STATE THAT THE WORK UNDER GUARANTEE WAS INSTALLED IN ACCORDANCE WITH THE CONTRACT DOCUMENTS, AND THAT THE WORK WILL BE FREE FROM DEFECTS IN WORKMANSHIP AND MATERIAL FOR THE PERIOD OF TIME SPECIFIED, AND THAT ALL DEFECTS WILL BE PROMPTLY REPAIRED WITHOUT ADDITIONAL COST TO THE TENANT.
  - Spare PARTS AND MAINTENANCE MANUALS: FURNISH PRODUCTS, SPARE PARTS, AND MAINTENANCE MATERIALS IN QUANTITIES SPECIFIED IN EACH SECTION, IN ADDITION TO THAT USED FOR CONSTRUCTION OF WORK. COORDINATE WITH TENANT, DELIVER TO PROJECT SITE AND OBTAIN RECEIPT PRIOR TO FINAL PAYMENT.

**DIVISION 2 – EXISTING CONDITIONS**

- 02419 **SELECTIVE DEMOLITION**
- A. DEMOLISH IN AN ORDERLY AND CAREFUL MANNER AS REQUIRED TO ACCOMMODATE THE WORK. WHERE DEMOLITION EXCEEDS THAT INDICATED, VERIFY SUCH DEMOLITION WITH THE ARCHITECT PRIOR TO PROCEEDING.
- B. PROTECT EXISTING STRUCTURAL MEMBERS. CONTACT THE ARCHITECT PRIOR TO MODIFYING STRUCTURAL MEMBERS BEYOND THE EXTENT INDICATED. CEASE OPERATIONS AND NOTIFY THE ARCHITECT IMMEDIATELY IF CONTINUED DEMOLITION OPERATIONS MIGHT ENDANGER THE EXISTING STRUCTURE.
- C. DURING DEMOLITION OPERATIONS, NOTIFY THE ARCHITECT OF ALL CONDITIONS WHICH OFFER SUBSTANTIALLY FROM THOSE INDICATED, AND/OR EXCEPTED. NOTIFY THE ARCHITECT IF PREVIOUSLY UNKNOWN OPERATIONAL, OR POTENTIALLY OPERATIONAL ELEMENTS, ARE UNCOVERED DURING DEMOLITION OPERATIONS. PERFORM NO DEMOLITION IN SUCH AREAS, UNLESS APPROVED BY THE ARCHITECT.
- D. PROVIDE TEMPORARY SHORING AS REQUIRED TO SUPPORT EXISTING CONSTRUCTION AGAINST MOVEMENT OR OVERLOAD DURING DEMOLITION OPERATIONS, UNTIL PERMANENT SUPPORTS ARE IN PLACE.
- E. EXCEPT WHERE NOTED OR SPECIFIED OTHERWISE, TAKE POSSESSION OF MATERIALS BEING DEMOLISHED, AND IMMEDIATELY REMOVE FROM SITE. DO NOT OVERLOAD EXISTING CONSTRUCTION TO REMAIN WITH DEMOLISHED MATERIALS.
- F. CAREFULLY REMOVE, STORE, AND PROTECT ALL MATERIALS AND COMPONENTS TO BE REUSED.
- G. WHERE POSSIBLE WITHOUT DAMAGE, REMOVE, STORE, AND PROTECT EXISTING MATERIALS AND COMPONENTS NOT NOTED FOR REMOVAL, WHICH IF REMOVED, WOULD FACILITATE THE NEW CONSTRUCTION AND RECONSTRUCTION.
- H. CAREFULLY REMOVE, PROTECT, AND TURN OVER AS DIRECTED, MATERIALS AND COMPONENTS CLAIMED BY THE TENANT FOR SALVAGE. PRIOR TO DEMOLITION, CONTACT THE TENANT TO DETERMINE WHICH ITEMS WILL BE CLAIMED.
- I. WHERE CUT EDGES OF THE EXISTING CONSTRUCTION WILL BE VISIBLE IN THE COMPLETED WORK, CUT IN UNIFORM STRAIGHT LINES. CONCRETE AND MASONRY SHALL BE SAW CUT OR CORE DRILLED.
- J. REPAIR ALL DEMOLITION PERFORMED IN EXCESS OF THAT REQUIRED, AT NO ADDITIONAL COST TO THE TENANT.
- K. UTILITY LINE DEMOLITION:
- VERIFY LOCATIONS OF EXISTING UTILITIES PRIOR TO DEMOLITION.
  - ABANDONED UNDERSLAB CONDUIT SHALL BE CUT OFF BELOW THE FINISHED SURFACE LINE, AND ALL CONDUCTORS SHALL BE REMOVED. PATCH AND FILL THE OPENING FLUSH WITH THE FINISH.
  - ABANDONED ELECTRICAL CONDUCTORS SHALL BE REMOVED BACK TO THE BRANCH CIRCUIT PANEL, UNLESS INDICATED OTHERWISE. ABANDONED CONDUIT WHICH IS EXPOSED AND READILY ACCESSIBLE SHALL BE REMOVED. LEAVE ABANDONED CONDUIT WHICH IS CONCEALED IN EXISTING CONSTRUCTION TO REMAIN.
  - ABANDONED UNDERSLAB PIPING SHALL BE REMOVED AND CUT OFF FLUSH WITH THE FLOOR LINE. PATCH FLUSH WITH THE FLOOR.
  - ABANDONED PIPING WHICH IS EXPOSED AND READILY ACCESSIBLE SHALL BE REMOVED. LEAVE ABANDONED PIPING WHICH IS CONCEALED IN EXISTING CONSTRUCTION TO REMAIN. CAP ALL EXPOSED ENDS.
  - INDICATE LOCATION OF DISCONNECTED UTILITIES ON THE PROJECT RECORD DRAWINGS AS SPECIFIED IN SECTION 017700.
- L. LEAVE SITE IN A CONDITION ACCEPTABLE TO THE TENANT AT ALL TIMES. REMOVE DEMOLISHED MATERIALS FROM SITE DAILY AS WORK PROGRESSES. DO NOT OVERLOAD EXISTING STRUCTURE WITH DEMOLISHED MATERIALS.

**DIVISION 3 – CONCRETE**

- 02001 **CONCRETE RESURFACING**
- A. SUMMARY: CAST-IN-PLACE CONCRETE, INCLUDING REINFORCING, ACCESSORIES, AND FORMWORK.
- B. QUALITY ASSURANCE:
- PERFORM WORK IN ACCORDANCE WITH AC 301, UNLESS INDICATED OR SPECIFIED OTHERWISE.
  - SUBMIT PROPOSED MIX DESIGN OF EACH CLASS OF CONCRETE TO APPOINTED FIRM FOR REVIEW PRIOR TO COMMENCEMENT OF WORK.
  - CONCRETE WORK IS SUBJECT TO SPECIAL TESTING AND INSPECTION. NOTIFY ARCHITECT AT LEAST 48 HOURS BEFORE CONCRETE IS POURED.
- C. SUBMITTALS:
- SHOP DRAWINGS:
    - DETAIL REINFORCING IN ACCORDANCE WITH ACI 315. INDICATE REINFORCEMENT SIZES, SPACINGS, LOCATIONS AND QUANTITIES OF REINFORCING, BENDING AND CUTTING SCHEDULES, SPLICES, AND SUPPORTING AND SPACING DEVICES.
    - INDICATE EMBEDDED ITEMS.
    - SHOW CONCRETE CONFIGURATIONS.

4. SLAB LAYOUTS: DIMENSION LOCATIONS OF CONTROL, EXPANSION, AND CONSTRUCTION JOINTS. RELATE TO BUILDING GRID LINES.
5. PRODUCT TESTS: SUBMIT TEST DATA FOR EACH ACCESSORY, ADMIXTURE, AND CURING MATERIAL, PROPOSED FOR THE WORK.
3. MIX DESIGNS: PRIOR TO CONCRETE WORK, SUBMIT MIX DESIGNS FOR APPROVAL.
- D. MATERIALS:
- UNLESS SPECIFIED OTHERWISE, CONFORM TO ACI 301.
  - CONCRETE MATERIALS:
    - CEMENT: ASTM C150, NORMAL – TYPE 1 PORTLAND CEMENT; GREY COLOR.
    - NORMAL WEIGHT FINE AND COARSE AGGREGATES: ASTM C33; SEVERE WEATHER EXPOSURE.
    - FLY ASH: ASTM C618, CLASS C OR F; LOSS ON IGNITION (LOI) NOT TO EXCEED 1 PERCENT. USE FLY ASH FROM ONE SINGLE SOURCE FOR THE WHOLE PROJECT.
    - FORM MATERIALS:
      - PLYWOOD: APA RATED HIGH DENSITY OVERLAY, PLYFORM CLASS 1, EXT. OR APA 9-B PLYFORM CLASS 1, EXT.
      - FORM TIES: SNAP-OFF METAL METAL WASHER ENDS.
      - CHAMBERS AND RUSTICATION STRIPS: WOOD OR POLYMER; FABRICATE TO THE SHAPES INDICATED.
  - REINFORCING STEEL: ASTM C615, GRADE 40, UNLESS INDICATED OTHERWISE.
    - CHARS, BOLSTERS, BAR SUPPORTS, AND SPACERS: S



d. MAKE EXPOSED JOINTS TIGHT, FLUSH, AND HARBINE.  
e. FILL IMPERFECTIONS WITH PLASTIC AUTO BODY FILLER AS NECESSARY FOR A SMOOTH EVEN FINISH.  
f. WELDS SHALL BE CONTINUOUS.  
G. FABRICATION OF ELEMENTS TO RECEIVE GALVANIZED COATINGS:  
1. FABRICATE IN ACCORDANCE WITH THE APPLICABLE REQUIREMENTS OF ASTM A143, A384, AND A385.  
2. REMOVE WELDING SLAG AND BURRS PRIOR TO GALVANIZING.  
3. AVOID FABRICATION TECHNIQUES WHICH COULD CAUSE DISTORTION OR EMBRITTLMENT OF THE STEEL.  
H. SPECIAL FABRICATION REQUIREMENTS:  
1. BOLDER DESIGNED RAILINGS: COORDINATE WITH OTHER FABRICATORS AND INSTALLERS AS NECESSARY TO ACCOMMODATE INSTALLATION OF RAILING SYSTEMS.  
I. SHOP FINISHES:  
1. HOT DIP GALVANIZING:  
a. STEEL FABRICATIONS SHALL BE GALVANIZED IN ACCORDANCE WITH ASTM A123. BOLTS, NUTS, WASHERS, AND OTHER HARDWARE SHALL BE GALVANIZED IN ACCORDANCE WITH A153.  
b. SURFACE FINISH: THE GALVANIZED COATINGS SHALL BE CONTINUOUS, FIRMLY ADHERED, SMOOTH, AND FREE FROM DEFECTS.  
c. LOCATIONS: PROVIDE HOT DIP GALVANIZING FOR ALL METAL FABRICATIONS IN EXTERIOR OR MOST CONDITIONS, UNLESS OTHERWISE INDICATED. UNLESS OTHERWISE APPROVED BY THE ARCHITECT, FLEW AND COOL GALVANIZE VENTILATION AND LIFTING HOLES WHICH WILL BE EXPOSED TO MOISTURE PENETRATION IN THE FINISHED WORK.  
2. SHOP FINISHING OF NON-STAINLESS STEEL (CLEAR-COATED HOT-ROLLED STEEL):  
a. USE HANDLING METHODS TO PRESERVE HOT ROLLED MILL SCALE TEXTURE AND BLUE-GRAY PATINA.  
b. DO NOT CUT STEEL WITH A TORCH; CUT STEEL WITH A BLADE.  
c. IF THE METAL IS SCRATCHED OR HAS A POOR PATINA DO THE FOLLOWING:  
1) HEAT METAL TO 150° F TO ELIMINATE ANY WATER.  
2) ALLOW TO COOL. REMOVE ANY SURFACE RUST WITH A SCOTCH BRITE PAD OR STEEL WOOL.  
d. APPLY TWO COATS OF CLEAR URETHANE.  
3. SHOP PRIMING OF PAINTED STEEL COMPONENTS:  
a. PREPARE SURFACES IN ACCORDANCE WITH THE FINISH COAT MANUFACTURER'S RECOMMENDATIONS, AND AS SPECIFIED BELOW.  
b. SOLVENT CLEAN IN ACCORDANCE WITH SSPC SP-1; ABRASE GALVANIZED SURFACES WITH A METAL PREPARATION PAD.  
c. SPRAY APPLY PRIMERS IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS. APPLY PRIMERS TO RECEIVE FELD APPLICATION OF FINISH COATS AS SPECIFIED IN SECTION 099000.  
d. EXCEPT FOR SURFACES INDICATED TO BE FIELD WELDED, COAT ALL SURFACES OF FABRICATION, WHETHER OR NOT EXPOSED TO VIEW IN INSTALLED POSITION.  
e. MAINTAIN AT LEAST ONE COAT OF PRIMER AT ALL TIMES DURING INSTALLATION. IMMEDIATELY PATCH DAMAGED COATINGS.  
f. FINISH COAT SHALL BE FREE OF DIRT, FLOW LINES, SAGS, BUSTERS, PINHOLES, AND OTHER SURFACE IMPERFECTIONS.  
g. LOCATIONS: PROVIDE AT ALL EXTERIOR METAL FABRICATION EXPOSED TO VIEW, AND OTHER FABRICATIONS AS SCHEDULED. DO NOT PRIME SURFACES TO BE FIELD WELDED.  
J. INSTALLATION  
1. INSTALL ALL WORK OF THIS SECTION SEPARATELY, IN ACCURATE ALIGNMENT, AND AS INDICATED ON THE DRAWINGS AND APPROVED SHOP DRAWINGS.  
2. TOUCH-UP ALL SHOP PRIMING COATS DAMAGED DURING TRANSPORTATION AND ERECTION, USING THE PRIMING PAINT SPECIFIED FOR SHOP PRIMING.  
3. ADHESIVELY APPLY STAINLESS STEEL PANELS TO PLYWOOD BACKER.

**SECTION 6 - WOOD AND PLASTIC**  
**08100 ROUGH CARPENTRY**  
**A. SUMMARY:**  
1. BLOCKING.  
2. PLYWOOD TERMINAL BACKBOARDS.  
**B. QUALITY ASSURANCE:**  
1. REGULATORY REQUIREMENTS: WORK SHALL CONFORM TO THE REQUIREMENTS OF THE JURISDICTIONAL CODE AUTHORITIES.  
**C. DIMENSION LUMBER:**  
1. LUMBER SHALL BE MANUFACTURED IN ACCORDANCE WITH PS 20, AND SHALL BE STAMPED AND GRADED IN ACCORDANCE WITH NWFA, WCLB, NGLA, OR SPIB GRADING RULES.  
2. MOISTURE CONTENT: KILN DRIED TO 19% MAXIMUM MOISTURE CONTENT, EXCEPT FOR MATERIAL WHOSE LEAST DIMENSION IS 4 INCHES THICK OR GREATER.  
3. SPECIES: HEM-FIR, SPRUCE-PINE-FIR (SPF), OR DOUGLAS FIR LARIX, UNLESS INDICATED OR SPECIFIED OTHERWISE.  
4. ARCHITECTURAL LUMBER GRADES: UNEXPOSED NON-STRUCTURAL WOOD FRAMING AND BLOCKING INDICATED ON THE ARCHITECTURAL DRAWINGS SHALL BE GRADED AS FOLLOWS:  
a. BLOCKING AND NAILERS: "UTILITY - LIGHT FRAMING," OR BETTER.  
**D. PANEL MATERIALS:**  
1. PLYWOOD: APA RATED SHEATHING; CD GRADE; EXTERIOR; PLYWOOD THICKNESSES AS INDICATED.  
2. TERMINAL BACKBOARDS: APA AC GRADE EXTERIOR; FIRE RETARDANT TREATED.  
**E. ACCESSORIES:**  
1. FASTENERS:  
a. HOT-DIPPED GALVANIZED STEEL FOR EXTERIOR, HIGH HUMIDITY, AND TREATED WOOD LOCATIONS.  
**F. WOOD TREATMENT:**  
1. FIRE RETARDANT TREATMENT:  
a. FIRE RETARDANT TREAT ALL INTERIOR CONCEALED LUMBER AND PLYWOOD, AND OTHER WOOD AS INDICATED OR SPECIFIED.  
b. PRESSURE TREAT LUMBER IN ACCORDANCE WITH A804 C-20 AND PLYWOOD IN ACCORDANCE WITH A804 C-22.  
c. ALL FIRE RETARDANT TREATED WOOD SHALL BEAR A UL, TRP-"S" LABEL, OR A LABEL FROM AN APPROVED INSPECTION AGENCY CERTIFYING THAT THE MATERIAL HAS A FLAME SPREAD RATING NO HIGHER THAN 25 WITH NO EVIDENCE OF SIGNIFICANT PROGRESSIVE COMBUSTION WHEN TESTED IN ACCORDANCE WITH ASTM E84.  
d. SITE TREAT SWAN ENDS WITH APPROVED FIRE RETARDANT TREATMENT.  
e. APPROVED PRODUCTS:  
1) INTERIOR FIREPROOFING PRODUCTS: CLEAR FINISH PRODUCT, HOUSON CORPORATION "DROON," HOOPER TREATED WOOD PRODUCTS "PHRO-GUARD," TONASE WOOD PRESERVING CO. OF AMERICA, INC. "FLAME PROOF LIQUID," OR APPROVED.  
**G. BLOCKING:** INSTALL WOOD BLOCKING TO RECEIVE MECHANICAL FASTENERS FOR SUPPORT OF PLUMBING AND ELECTRICAL FUTURES AND CEILING, CABINETS, DOOR STOP PLATES, WOOD BASE, WANSCOOTS, COAT HOOKS, TOILET AND BATH ACCESSORIES, KITCHEN EQUIPMENT, AND ALL OTHER WALL AND CEILING MOUNTED COMPONENTS.  
**H. PLYWOOD TERMINAL BACKBOARDS:**  
1. PROVIDE A FIRE RETARDANT TREATED PLYWOOD TERMINAL BACKBOARD FOR TELEPHONE SYSTEMS WHERE INDICATED ON THE DRAWINGS.  
2. MECHANICALLY APPLY DIRECTLY OVER OPSUM BACKING BOARD.  
**06400 ARCHITECTURAL WOODWORK**  
**A. SUMMARY:**  
1. WOOD STANDING AND RUNNING TRIM.  
2. WOOD SCREEN WALL.  
3. WOOD SLAT WALL AND CEILING PANELS.  
4. CASEWORK.  
5. CUSTOM SEAT CUSHIONS.  
**B. SHOP FINISHING:**  
6. SHOP FINISHING:  
**RE REFERENCED STANDARDS**  
1. AMERICAN SOCIETY FOR TESTING AND MATERIALS (ASTM)  
a. D136 STANDARD SPECIFICATION FOR FLAT GLASS  
b. E84 TEST METHOD FOR SURFACE BURNING CHARACTERISTICS OF BUILDING MATERIALS  
2. AMERICAN PLYWOOD ASSOCIATION (APA)  
3. ARCHITECTURAL WOODWORK INSTITUTE (AWI)  
a. ARCHITECTURAL WOODWORK QUALITY STANDARDS, GUIDE SPECIFICATIONS AND QUALITY CERTIFICATION PROGRAM (CURRENT EDITION).  
b. WEST COAST LUMBER INSPECTION BUREAU (WCLB)  
a. STANDARD GRADING RULES NO. 16  
5. U.S. PRODUCT STANDARD (PS)  
a. PS 1 PRODUCT STANDARD FOR CONSTRUCTION AND INDUSTRIAL PLYWOOD  
**C. SUBMITTALS:**  
1. SHOP DRAWINGS: INDICATE MATERIALS, COMPONENTS, PROFILES AND CONFIGURATIONS, DIMENSIONS, FASTENING METHODS, JOINTING DETAILS, COLORS AND FINISHES, AND ACCESSORIES. DETAILS SHALL BE AT A MINIMUM SCALE OF 1-1/2 INCH PER FOOT.  
2. SAMPLES:  
a. SOLID WOOD WITH TRANSPARENT FINISH: SUBMIT A MINIMUM OF 3 - 12 INCH LONG SAMPLES REPRESENTATIVE OF THE MAXIMUM RANGE OF COLOR AND GRAINING TO BE EXPECTED FOR EACH SPECIES, ODT, AND FINISH COMBINATION SPECIFIED. INCLUDE SAMPLES OF TRANSPARENT FINISH WITH PUTTY FILLED HOLES AND SPECIFIED FELD APPLIED TOP COAT.  
b. GRAPE FINISH WOOD: SUBMIT A MINIMUM OF 3 - 12 INCH LONG SAMPLES REPRESENTATIVE OF THE MAXIMUM RANGE OF GRAINING AND SURFACE IMPERFECTIONS TO BE EXPECTED.  
c. PLASTIC LAMINATE: SUBMIT A MINIMUM 8 X 11 SAMPLE OF EACH COLOR AND PATTERN SPECIFIED.  
3. PRODUCT LITERATURE: SUBMIT LITERATURE FOR A SAMPLE OF EACH HARDWARE COMPONENT PROPOSED.  
4. CERTIFICATION: SUBMIT CERTIFICATION THAT THE FIRE RETARDANT TREATMENTS USED COMPLY WITH THE SPECIFIED REQUIREMENTS.  
**D. QUALITY ASSURANCE:**  
1. FABRICATOR: A MINIMUM OF 5 YEARS EXPERIENCE IN THE FABRICATION OF CUSTOM ARCHITECTURAL WOODWORK OF THE TYPE SPECIFIED.  
2. ALL ARCHITECTURAL WOODWORK SHALL BE UNDER THE RESPONSIBILITY OF A SINGLE FABRICATOR.  
3. QUALIFICATIONS OF INSTALLERS: USE ONLY JOURNAPLMEN FINISH CARPENTERS WHO ARE THOROUGHLY TRAINED AND SKILLED IN THE WORK, AND WHO ARE COMPLETELY FAMILIAR WITH THE MATERIALS AND QUALITY STANDARDS SPECIFIED. NO ALLOWANCE WILL BE MADE FOR LACK OF SKILL ON THE PART OF WORKMEN.  
4. CONFORM TO AMI CUSTOM GRADE STANDARDS UNLESS SPECIFIED OR INDICATED OTHERWISE.  
5. WOOD-UPPS: FABRICATE ONE CASEWORK COMPONENT TO RECEIVE TRANSPARENT FINISH AND ONE COMPONENT TO RECEIVE OPAQUE FINISH, COMPLETE WITH HARDWARE AND ALL ELECTRICAL AND MECHANICAL COMPONENTS AND FINISHED AS SPECIFIED. COMPONENTS SHALL BE SELECTED BY ARCHITECT. COMPONENTS SHALL BE USED TO ESTABLISH LEVEL OF QUALITY FOR THE WORK OF THIS SECTION. COMPONENTS APPROVED BY ARCHITECT MAY BE INCORPORATED INTO THE WORK.  
**E. MATERIALS:**  
1. LUMBER:  
a. MOISTURE CONTENT: OPTIMUM MOISTURE CONTENT PER AMI RECOMMENDATIONS.  
b. TRANSPARENT FINISH LUMBER: TYPES AS SCHEDULED ON THE DRAWINGS.  
c. CONCEALED FRAMING LUMBER: AMI GRADE II PINE, FIR, HEMLOCK, OR OTHER SPECIES AS APPROVED.  
2. PLYWOOD: APA RATED IN ACCORDANCE WITH PS 1 3/4 INCH THICK AC EXTERIOR GRADE UNLESS INDICATED OR SPECIFIED OTHERWISE; TOUCH Sanded WHERE PLASTIC LAMINATE VENEERS ARE TO BE APPLIED.  
3. HARDWOOD PLYWOOD: STATES INDUSTRIES (EUGENE, OR 800-843-2753) "APPLE PLY"; GRADE A, 1/16 INCH ALDER VENEER CORE; (9 PLY FOR 1/2 INCH THICKNESS, 13 PLY FOR 3/4 INCH THICKNESS); BIRCH VENEER FACES, PLAN SIZED.  
4. PARTICLE BOARD: ANSI A208.1; GRADE M-2 WHERE INDICATED OR SPECIFIED; FIRE RETARDANT TREATED TO A FLAME SPREAD OF 25 WHEN TESTED IN ACCORDANCE WITH ASTM E84. PROVIDE QUALITY ASSURANCE STAMP OR MANUFACTURER'S CERTIFICATIONS AS REQUIRED BY LOCAL JURISDICTIONAL CODE AUTHORITIES.  
5. MEDIUM DENSITY FIBERBOARD (MDF): ANSI A208.2 CLASS MD; EXTERIOR GRADE; FORMALDEHYDE FREE.  
6. PRE-FINISHED BOARD: LOW PRESSURE MELAMINE OVER PARTICLE BOARD, MDF, OR HARDBOARD GRADE; FORMALDEHYDE FREE; COLORS AS SELECTED FROM MANUFACTURER'S STANDARD.

**07100 MAINTENANCE OF MEMBRANE ROOFING**  
**A. ROOFING MATERIALS:** UNLESS APPROVED OTHERWISE, NEW ROOFING MATERIALS SHALL MATCH THE EXISTING MATERIALS.  
**B. FLASHING MATERIALS:**  
1. GALVANIZED STEEL SHEET: ASTM A525; G90 GALVANIZED FINISH, EXCEPT PROVIDE A60 WHERE SPECIAL FINISH IS USED.  
2. IN ORDER TO MATCH EXISTING CONDITIONS, CONTRACTOR MAY PROVIDE EITHER FACTORY PREFINISHED GALVANIZED STEEL OR SPECIAL FINISH ON GALVANIZED STEEL.  
3. FINISHES:  
a. FACTORY PREFINISH: FACTORY PREFINISHED WITH 70% RESIN KYNAR 500 OR HYLAR 5000 FLUOROCARBON COATING, COLOR AS SELECTED BY THE ARCHITECT TO MATCH EXISTING FLASHING OR TRIM.  
b. SPECIAL FINISH MATERIALS:  
1) PRIMER: NEMEC SERIES N27 "TYPHOY," CARBOLINE 890, OR APPROVED.  
2) URETHANE FINISH COATS: NEMEC SERIES 75 "ENDURA-SHIELD" ACRYLIC POLYURETHANE ENAMEL, CARBOLINE "133HB," OR APPROVED; SEMI-GLOSS OR SATIN SHEEN; CUSTOM COLORS AS SELECTED BY THE ARCHITECT TO MATCH THE EXISTING FLASHING OR TRIM.  
3. STAINLESS STEEL SHEET: ASTM A167; TYPE 302 OR 304  
5. ACCESSORIES:  
a. FASTENERS:  
PROVIDE SOFT NEOPRENE WASHERS AT EXPOSED FASTENERS.  
CALVANIZED STEEL SHEET: USE GALVANIZED STEEL OR STAINLESS STEEL.  
STAINLESS STEEL SHEET: STAINLESS STEEL.  
USE SCREWS WHEN FASTENING INTO WOOD OR SHEET METAL.  
USE EXPANSION ANCHORS OR DRIVE PINS WHEN FASTENING INTO CONCRETE OR MASONRY.  
b. BUTYL RUBBER SEALANT: ONE OF THE FOLLOWING:  
1) CURTAIN WALL SEALANT, BY TREMCO.  
2) AD0SEAL BR-400, BY ADCO PRODUCTS, INC.  
c. FLEXIBLE FLASHING: W.R. GRAACE "PERRIN-A-BARRIER" WALL FLASHING, OR "ICE AND WATER SHIELD," OR APPROVED.  
d. FIBERGLASS BOOT PIPE FLASHING: PORTALS PLUS (708/766-5240; 800/774-5240) "ALUM-FLASH" WITH EPDM BOOTLS, OR APPROVED; SIZED TO MATCH PIPE DIAMETER; SPLIT TYPE WITH SEALING HARDWARE WHERE NECESSARY FOR INSTALLATION AT PENETRATING ITEMS WHICH CANNOT BE DISCONNECTED FOR TOP ACCESS. FURNISH STAINLESS STEEL DRAW BANDS, ADAPTERS, CONNECTION HARDWARE, AND SEALANTS AS NECESSARY FOR A COMPLETE AND WEATHER TIGHT INSTALLATION.  
**C. PROTECTION:**  
1. PROTECT EXISTING CONSTRUCTION ADJACENT TO HOST AND KETTLES PRIOR TO STARTING WORK.  
2. LAP SUITABLE PROTECTIVE MATERIAL AT LEAST 3 INCHES.  
3. SECURE PROTECTIVE COVERINGS AGAINST WIND.  
4. LEAVE PROTECTIVE COVERING IN PLACE FOR DURATION OF ROOFING WORK.  
5. LEAVE PROTECTIVE COVERINGS IN PLACE FOR THE DURATION OF THE WORK.  
6. RESTORE TO ORIGINAL CONDITION OR REPLACE WORK OR MATERIALS DAMAGED DURING HANDLING OF BITUMENS AND ROOFING MATERIALS.  
**D. REMOVAL OF EXISTING ROOFING AND FLASHING SYSTEMS:**  
1. REMOVE EXISTING ROOFING AND FLASHING SYSTEMS TO ACCOMMODATE NEW ROOFING AND FLASHING SYSTEMS.  
2. REMOVE EXISTING SYSTEMS TO EXPOSE SUBSTRATES. CLEAN AND PREPARE SURFACES IN MANNER REQUIRED FOR INSTALLATION OF NEW SYSTEMS.  
3. REMOVE RESULTING MATERIALS FROM ROOFING AREAS AND JOB SITE ON THE SAME DAY THEY ARE REMOVED. DISPOSE OF IN A LEGAL MANNER.  
4. PROVIDE CHUTES, TRAPS, AND OTHER MATERIALS TO PREVENT DAMAGING OR STANDING OF BUILDING COMPONENTS THAT ARE TO REMAIN.  
5. EXISTING SURFACES SHALL BE MADE SMOOTH, FIRM, DRY, AND FREE FROM DIRT, FOREIGN MATERIALS, SHARP PROJECTIONS, OR VOIDS.  
**E. PATCHING OF EXISTING ROOF:**  
1. PROVIDE NEW MATERIALS AS REQUIRED TO FORM A COMPLETE AND CONTINUOUS ROOF ASSEMBLY.  
2. PROVIDE ADDITIONAL TAPERED CONSTRUCTION AS REQUIRED TO FORM NEW NON-PONDING DRAINAGE PATTERNS AROUND NEW CONSTRUCTION. COORDINATE THE PLACEMENT OF NEW DRAINS.  
3. SEAL OFF ALL ROOF AREAS AT THE END OF EACH WORK DAY.  
4. PERFORM WORK IN ACCORDANCE WITH THE GUARANTEE REQUIREMENTS OF THE EXISTING ROOF ASSEMBLY. CONTACT THE OWNER TO VERIFY GUARANTEE REQUIREMENTS.  
**F. FABRICATION OF FLASHING COMPONENTS:**  
1. FIELD MEASURE SITE CONDITIONS PRIOR TO FABRICATING WORK; REPLACE EXISTING FLASHING WHICH IS REMOVED WITH NEW FLASHING OF LIKE PROFILE AND DIMENSION, UNLESS INDICATED OTHERWISE.  
2. SHOP FINISHES:  
a. PREPARE SURFACES IN ACCORDANCE WITH THE SPECIAL FINISH MANUFACTURER'S RECOMMENDATIONS.  
b. SPRAY APPLY PRIMER AND FINISH COATS IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS; ONE COAT PRIMER; 2 FINISH COATS.  
c. FINISH SHALL BE FREE OF DIRT, DUST, FLOW LINES, STREAMS, SAGS, BUSTERS, PINHOLES, RUNS, OR OTHER SURFACE IMPERFECTIONS.  
d. PROVIDE SHOP FINISHED SHEET METAL AT ALL FLASHING AND SHEET METAL EXPOSED PORTIONS OF FLASHINGS, COPINGS, AND SCOPPIERS.  
**07210 THERMAL INSULATION**  
**A. MATERIALS:**  
1. FOL-FAZED BATT AND BLANKET INSULATION: ASTM D865, TYPE III, PREFORMED FOL-FAZED GLASS FIBER ROLL; FLAME SPREAD CLASS OF 50 OR LESS AND SMOKE DEVELOPMENT OF 50 OR LESS WHEN TESTED IN ACCORDANCE WITH ASTM E84; FORMALDEHYDE FREE, JOHNS MANVILLE CORP. "THERMAL-SHIELD UNFACED FIBER GLASS COMMERCIAL INSULATION;" OR APPROVED; OVERSIZE WIDTHS FOR FRICTION-FIT BETWEEN METAL FRAMING.  
2. BOARD INSULATION: EXTRUDED POLYSTYRENE; LOW CHEMICAL COUNTRY "STYROFOAM SM" OR US INDUSTRIES, INC. "FORMULAR 250 INSULATING SHEATHING."  
3. BATT TO MATCH FOIL SCREW KRAFT FACE; 2 INCH WIDTH.  
**B. INSTALLATION:**  
1. INSTALL INSULATION IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS AND AS INDICATED.  
2. TRIM INSULATION NEATLY TO FIT SPACES. INSTALL WITHOUT GAPS OR VOIDS.  
3. INSTALL INSULATION NEATLY TO FIT SPACES. USE BATTS FREE OF DAMAGE.  
a. INSTALL INSULATION WITHOUT GAPS OR VOIDS.  
b. TRIM INSULATION NEATLY TO FIT SPACES. USE BATTS FREE OF DAMAGE.  
4. AT METAL STUD FRAMING, INSERT THE INSULATION EDGES THOROUGHLY INTO THE STUD CHANNELS FOR A FRICTION FIT. PROVIDE ADDITIONAL SUPPORTS AS NECESSARY TO PREVENT SLIDING OF BATTS IN THE STUD CAVITY.  
5. MECHANICAL FASTENING:  
1) AT LOCATIONS WHERE NO SUPPORT FRAMING IS PRESENT, PROVIDE METAL IMPELLING PINS AND RETAINERS.  
2) MECHANICALLY OR ADHESIVELY BOND THE RETAINING PINS TO THE SUBSTRATE IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS.  
3) SPACE PINS AT MAXIMUM 24 INCHES ON CENTER ALONG THE EDGES AND WITHIN THE FIELD OF THE BATT. PLACE EDGE PINS WITHIN 6 INCHES FROM THE EDGE OF THE BATT.  
4. PACK BATT INSULATION IN SHIM SPACES AT PERIMETER OF WINDOW ASSEMBLY TO MAINTAIN CONTINUITY OF THERMAL BARRIER.  
5. INSTALL FACED INSULATION WITH VAPOR BARRIER TOWARD WARM SIDE OF BUILDING SPACES. VAPOR BARRIER SHALL BE CONTINUOUS. TAPE AND SEAL TEARS OR CUTS IN VAPOR BARRIER.  
**07620 JOINT SEALANTS**  
**B. SECTION INCLUDES:**  
1. CLEANING AND PREPARATION OF JOINT SURFACES.  
2. SEALANT AND BACKING MATERIALS.  
3. SPECIALTY ADHESIVES.  
**C. SUBMITTALS:**  
1. PRODUCT LITERATURE FOR EACH MATERIAL USED.  
2. MANUFACTURER'S SURFACE PREPARATION AND INSTALLATION INSTRUCTIONS.  
3. SAMPLES:  
a. SUBMIT CURED SAMPLES OF EACH SEALANT TYPE AND COLOR PROPOSED FOR THE WORK.  
b. FOR EACH SEALANT TYPE INDICATED FOR COLOR AS SELECTED; OR FOR WHICH NO COLOR IS INDICATED, SUBMITTALS COLOR CARD INDICATING AVAILABLE STOCK COLORS FROM MANUFACTURER'S COMPLETE LINE OF PRE-FORMULATED COLORS FOR EACH TYPE OF SEALANT.  
c. FOR CUSTOM COLORS, REQUEST COLOR SELECTION FROM THE ARCHITECT PRIOR TO SAMPLE SUBMITTAL.  
4. TYPE PTF: ASTM C920, TYPE M, GRADE P, CLASS 25; TREMCO "THE 900," SONNBERN "SONODIAC" SONODIAC PAVING JOINT SEALANT, PECORA "UREXPAN NR-200," OR APPROVED; STANDARD COLORS AS SELECTED.  
5. TYPE PINS: ASTM C920, TYPE M, GRADE NS, CLASS 25; PECORA "DYNATREX," TREMCO "TFL," OR APPROVED; CUSTOM COLORS TO MATCH THE ARCHITECT'S

**08100 ROUGH CARPENTRY**  
**A. SUMMARY:**  
1. BLOCKING.  
2. PLYWOOD TERMINAL BACKBOARDS.  
**B. QUALITY ASSURANCE:**  
1. REGULATORY REQUIREMENTS: WORK SHALL CONFORM TO THE REQUIREMENTS OF THE JURISDICTIONAL CODE AUTHORITIES.  
**C. DIMENSION LUMBER:**  
1. LUMBER SHALL BE MANUFACTURED IN ACCORDANCE WITH PS 20, AND SHALL BE STAMPED AND GRADED IN ACCORDANCE WITH NWFA, WCLB, NGLA, OR SPIB GRADING RULES.  
2. MOISTURE CONTENT: KILN DRIED TO 19% MAXIMUM MOISTURE CONTENT, EXCEPT FOR MATERIAL WHOSE LEAST DIMENSION IS 4 INCHES THICK OR GREATER.  
3. SPECIES: HEM-FIR, SPRUCE-PINE-FIR (SPF), OR DOUGLAS FIR LARIX, UNLESS INDICATED OR SPECIFIED OTHERWISE.  
4. ARCHITECTURAL LUMBER GRADES: UNEXPOSED NON-STRUCTURAL WOOD FRAMING AND BLOCKING INDICATED ON THE ARCHITECTURAL DRAWINGS SHALL BE GRADED AS FOLLOWS:  
a. BLOCKING AND NAILERS: "UTILITY - LIGHT FRAMING," OR BETTER.  
**D. PANEL MATERIALS:**  
1. PLYWOOD: APA RATED SHEATHING; CD GRADE; EXTERIOR; PLYWOOD THICKNESSES AS INDICATED.  
2. TERMINAL BACKBOARDS: APA AC GRADE EXTERIOR; FIRE RETARDANT TREATED.  
**E. ACCESSORIES:**  
1. FASTENERS:  
a. HOT-DIPPED GALVANIZED STEEL FOR EXTERIOR, HIGH HUMIDITY, AND TREATED WOOD LOCATIONS.  
**F. WOOD TREATMENT:**  
1. FIRE RETARDANT TREATMENT:  
a. FIRE RETARDANT TREAT ALL INTERIOR CONCEALED LUMBER AND PLYWOOD, AND OTHER WOOD AS INDICATED OR SPECIFIED.  
b. PRESSURE TREAT LUMBER IN ACCORDANCE WITH A804 C-20 AND PLYWOOD IN ACCORDANCE WITH A804 C-22.  
c. ALL FIRE RETARDANT TREATED WOOD SHALL BEAR A UL, TRP-"S" LABEL, OR A LABEL FROM AN APPROVED INSPECTION AGENCY CERTIFYING THAT THE MATERIAL HAS A FLAME SPREAD RATING NO HIGHER THAN 25 WITH NO EVIDENCE OF SIGNIFICANT PROGRESSIVE COMBUSTION WHEN TESTED IN ACCORDANCE WITH ASTM E84.  
d. SITE TREAT SWAN ENDS WITH APPROVED FIRE RETARDANT TREATMENT.  
e. APPROVED PRODUCTS:  
1) INTERIOR FIREPROOFING PRODUCTS: CLEAR FINISH PRODUCT, HOUSON CORPORATION "DROON," HOOPER TREATED WOOD PRODUCTS "PHRO-GUARD," TONASE WOOD PRESERVING CO. OF AMERICA, INC. "FLAME PROOF LIQUID," OR APPROVED.  
**G. BLOCKING:** INSTALL WOOD BLOCKING TO RECEIVE MECHANICAL FASTENERS FOR SUPPORT OF PLUMBING AND ELECTRICAL FUTURES AND CEILING, CABINETS, DOOR STOP PLATES, WOOD BASE, WANSCOOTS, COAT HOOKS, TOILET AND BATH ACCESSORIES, KITCHEN EQUIPMENT, AND ALL OTHER WALL AND CEILING MOUNTED COMPONENTS.  
**H. PLYWOOD TERMINAL BACKBOARDS:**  
1. PROVIDE A FIRE RETARDANT TREATED PLYWOOD TERMINAL BACKBOARD FOR TELEPHONE SYSTEMS WHERE INDICATED ON THE DRAWINGS.  
2. MECHANICALLY APPLY DIRECTLY OVER OPSUM BACKING BOARD.  
**06400 ARCHITECTURAL WOODWORK**  
**A. SUMMARY:**  
1. WOOD STANDING AND RUNNING TRIM.  
2. WOOD SCREEN WALL.  
3. WOOD SLAT WALL AND CEILING PANELS.  
4. CASEWORK.  
5. CUSTOM SEAT CUSHIONS.  
**B. SHOP FINISHING:**  
6. SHOP FINISHING:  
**RE REFERENCED STANDARDS**  
1. AMERICAN SOCIETY FOR TESTING AND MATERIALS (ASTM)  
a. D136 STANDARD SPECIFICATION FOR FLAT GLASS  
b. E84 TEST METHOD FOR SURFACE BURNING CHARACTERISTICS OF BUILDING MATERIALS  
2. AMERICAN PLYWOOD ASSOCIATION (APA)  
3. ARCHITECTURAL WOODWORK INSTITUTE (AWI)  
a. ARCHITECTURAL WOODWORK QUALITY STANDARDS, GUIDE SPECIFICATIONS AND QUALITY CERTIFICATION PROGRAM (CURRENT EDITION).  
b. WEST COAST LUMBER INSPECTION BUREAU (WCLB)  
a. STANDARD GRADING RULES NO. 16  
5. U.S. PRODUCT STANDARD (PS)  
a. PS 1 PRODUCT STANDARD FOR CONSTRUCTION AND INDUSTRIAL PLYWOOD  
**C. SUBMITTALS:**  
1. SHOP DRAWINGS: INDICATE MATERIALS, COMPONENTS, PROFILES AND CONFIGURATIONS, DIMENSIONS, FASTENING METHODS, JOINTING DETAILS, COLORS AND FINISHES, AND ACCESSORIES. DETAILS SHALL BE AT A MINIMUM SCALE OF 1-1/2 INCH PER FOOT.  
2. SAMPLES:  
a. SOLID WOOD WITH TRANSPARENT FINISH: SUBMIT A MINIMUM OF 3 - 12 INCH LONG SAMPLES REPRESENTATIVE OF THE MAXIMUM RANGE OF COLOR AND GRAINING TO BE EXPECTED FOR EACH SPECIES, ODT, AND FINISH COMBINATION SPECIFIED. INCLUDE SAMPLES OF TRANSPARENT FINISH WITH PUTTY FILLED HOLES AND SPECIFIED FELD APPLIED TOP COAT.  
b. GRAPE FINISH WOOD: SUBMIT A MINIMUM OF 3 - 12 INCH LONG SAMPLES REPRESENTATIVE OF THE MAXIMUM RANGE OF GRAINING AND SURFACE IMPERFECTIONS TO BE EXPECTED.  
c. PLASTIC LAMINATE: SUBMIT A MINIMUM 8 X 11 SAMPLE OF EACH COLOR AND PATTERN SPECIFIED.  
3. PRODUCT LITERATURE: SUBMIT LITERATURE FOR A SAMPLE OF EACH HARDWARE COMPONENT PROPOSED.  
4. CERTIFICATION: SUBMIT CERTIFICATION THAT THE FIRE RETARDANT TREATMENTS USED COMPLY WITH THE SPECIFIED REQUIREMENTS.  
**D. QUALITY ASSURANCE:**  
1. FABRICATOR: A MINIMUM OF 5 YEARS EXPERIENCE IN THE FABRICATION OF CUSTOM ARCHITECTURAL WOODWORK OF THE TYPE SPECIFIED.  
2. ALL ARCHITECTURAL WOODWORK SHALL BE UNDER THE RESPONSIBILITY OF A SINGLE FABRICATOR.  
3. QUALIFICATIONS OF INSTALLERS: USE ONLY JOURNAPLMEN FINISH CARPENTERS WHO ARE THOROUGHLY TRAINED AND SKILLED IN THE WORK, AND WHO ARE COMPLETELY FAMILIAR WITH THE MATERIALS AND QUALITY STANDARDS SPECIFIED. NO ALLOWANCE WILL BE MADE FOR LACK OF SKILL ON THE PART OF WORKMEN.  
4. CONFORM TO AMI CUSTOM GRADE STANDARDS UNLESS SPECIFIED OR INDICATED OTHERWISE.  
5. WOOD-UPPS: FABRICATE ONE CASEWORK COMPONENT TO RECEIVE TRANSPARENT FINISH AND ONE COMPONENT TO RECEIVE OPAQUE FINISH, COMPLETE WITH HARDWARE AND ALL ELECTRICAL AND MECHANICAL COMPONENTS AND FINISHED AS SPECIFIED. COMPONENTS SHALL BE SELECTED BY ARCHITECT. COMPONENTS SHALL BE USED TO ESTABLISH LEVEL OF QUALITY FOR THE WORK OF THIS SECTION. COMPONENTS APPROVED BY ARCHITECT MAY BE INCORPORATED INTO THE WORK.  
**E. MATERIALS:**  
1. LUMBER:  
a. MOISTURE CONTENT: OPTIMUM MOISTURE CONTENT PER AMI RECOMMENDATIONS.  
b. TRANSPARENT FINISH LUMBER: TYPES AS SCHEDULED ON THE DRAWINGS.  
c. CONCEALED FRAMING LUMBER: AMI GRADE II PINE, FIR, HEMLOCK, OR OTHER SPECIES AS APPROVED.  
2. PLYWOOD: APA RATED IN ACCORDANCE WITH PS 1 3/4 INCH THICK AC EXTERIOR GRADE UNLESS INDICATED OR SPECIFIED OTHERWISE; TOUCH Sanded WHERE PLASTIC LAMINATE VENEERS ARE TO BE APPLIED.  
3. HARDWOOD PLYWOOD: STATES INDUSTRIES (EUGENE, OR 800-843-2753) "APPLE PLY"; GRADE A, 1/16 INCH ALDER VENEER CORE; (9 PLY FOR 1/2 INCH THICKNESS, 13 PLY FOR 3/4 INCH THICKNESS); BIRCH VENEER FACES, PLAN SIZED.  
4. PARTICLE BOARD: ANSI A208.1; GRADE M-2 WHERE INDICATED OR SPECIFIED; FIRE RETARDANT TREATED TO A FLAME SPREAD OF 25 WHEN TESTED IN ACCORDANCE WITH ASTM E84. PROVIDE QUALITY ASSURANCE STAMP OR MANUFACTURER'S CERTIFICATIONS AS REQUIRED BY LOCAL JURISDICTIONAL CODE AUTHORITIES.  
5. MEDIUM DENSITY FIBERBOARD (MDF): ANSI A208.2 CLASS MD; EXTERIOR GRADE; FORMALDEHYDE FREE.  
6. PRE-FINISHED BOARD: LOW PRESSURE MELAMINE OVER PARTICLE BOARD, MDF, OR HARDBOARD GRADE; FORMALDEHYDE FREE; COLORS AS SELECTED FROM MANUFACTURER'S STANDARD.

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**E. ACCESSORIES:**  
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**D. QUALITY ASSURANCE:**  
1. FABRICATOR: A MINIMUM OF 5 YEARS EXPERIENCE IN THE FABRICATION OF CUSTOM ARCHITECTURAL WOODWORK OF THE TYPE SPECIFIED.  
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1. PROVIDE A FIRE RETARDANT TREATED PLYWOOD TERMINAL BACKBOARD FOR TELEPHONE SYSTEMS WHERE INDICATED ON THE DRAWINGS.  
2. MECHANICALLY APPLY DIRECTLY OVER OPSUM BACKING BOARD.  
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3. WOOD SLAT WALL AND CEILING PANELS.  
4. CASEWORK.  
5. CUSTOM SEAT CUSHIONS.  
**B. SHOP FINISHING:**  
6. SHOP FINISHING:  
**RE REFERENCED STANDARDS**  
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a. D136 STANDARD SPECIFICATION FOR FLAT GLASS  
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b. WEST COAST LUMBER INSPECTION BUREAU (WCLB)  
a. STANDARD GRADING RULES NO. 16  
5. U.S. PRODUCT STANDARD (PS)  
a. PS 1 PRODUCT STANDARD FOR CONSTRUCTION AND INDUSTRIAL PLYWOOD  
**C. SUBMITTALS:**  
1. SHOP DRAWINGS: INDICATE MATERIALS, COMPONENTS, PROFILES AND CONFIGURATIONS, DIMENSIONS, FASTENING METHODS, JOINTING DETAILS, COLORS AND FINISHES, AND ACCESSORIES. DETAILS SHALL BE AT A MINIMUM SCALE OF 1-1/2 INCH PER FOOT.  
2. SAMPLES:  
a. SOLID WOOD WITH TRANSPARENT FINISH: SUBMIT A MINIMUM OF 3 - 12 INCH LONG SAMPLES REPRESENTATIVE OF THE MAXIMUM RANGE OF COLOR AND GRAINING TO BE EXPECTED FOR EACH SPECIES, ODT, AND FINISH COMBINATION SPECIFIED. INCLUDE SAMPLES OF TRANSPARENT FINISH WITH PUTTY FILLED HOLES AND SPECIFIED FELD APPLIED TOP COAT.  
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3. PRODUCT LITERATURE: SUBMIT LITERATURE FOR A SAMPLE OF EACH HARDWARE COMPONENT PROPOSED.  
4. CERTIFICATION: SUBMIT CERTIFICATION THAT THE FIRE RETARDANT TREATMENTS USED COMPLY WITH THE SPECIFIED REQUIREMENTS.  
**D. QUALITY ASSURANCE:**  
1. FABRICATOR: A MINIMUM OF 5 YEARS EXPERIENCE IN THE FABRICATION OF CUSTOM ARCHITECTURAL WOODWORK OF THE TYPE SPECIFIED.  
2. ALL ARCHITECTURAL WOODWORK SHALL BE UNDER THE RESPONSIBILITY OF A SINGLE FABRICATOR.  
3. QUALIFICATIONS OF INSTALLERS: USE ONLY JOURNAPLMEN FINISH CARPENTERS WHO ARE THOROUGHLY TRAINED AND SKILLED IN THE WORK,

ELSEWHERE. BLOCKING FOR FIRE RATED DOORS SHALL MEET THE DOOR MANUFACTURER'S LABELING REQUIREMENTS.

F. INSTALLATION:

- 1. FIT AND PREPARE DOORS FOR INSTALLATION IN ACCORDANCE WITH THE DOOR MANUFACTURER'S PRINTED INSTRUCTIONS.
- 2. PROVIDE CLEARANCES OF 1/8" INCH AT JAMBS AND HEADS AND 3/8" INCH FROM BOTTOM OF DOOR TO TOP OF DECORATIVE FLOOR FINISH OR COVERING, EXCEPT WHERE THRESHOLD IS SHOWN OR SCHEDULED PROVIDE 1/4" INCH CLEARANCE FROM BOTTOM OF DOOR TO TOP OF THRESHOLD.

**083100 ACCESS DOORS AND PANELS**

A. SUBMITTALS:

- 1. SUBMIT PRODUCT DATA, INCLUDE SIZES, TYPES, FINISHES, SCHEDULED LOCATIONS, AND DETAILS OF ADJOINING CONSTRUCTION.
- 2. QUALITY ASSURANCE:

B. HARDWARE:

- 1. WHERE ACCESS DOORS ARE INSTALLED IN CONSTRUCTION WITH AN HOURLY FIRE RESISTANCE RATING, PROVIDE DOOR AND FRAME ASSEMBLIES LABELED BY UNDERWRITER'S LABORATORY, WATKINS HERSEY, OR ANY OTHER TESTING LABORATORY APPROVED BY THE LOCAL CODE AUTHORITIES TO MEET THE REQUIREMENTS OF THE FIRE RATED ASSEMBLY.

C. ACCEPTABLE MANUFACTURERS:

- 1. MLCOR, INC., LIMA, OH.
- 2. J.L. INDUSTRIES, BLOOMINGTON, MN.
- 3. KAPP ASSOCIATES, INC., MASPEH, NY.
- 4. MW SYSTEMS CORPORATION, TUCKER, GA.
- 5. MYERSON, MINNEAPOLIS, MN.

D. DOOR TYPES:

- 1. FIRE RATED METAL ACCESS DOOR:
  - a. FLUSH TYPE DESIGN.
  - b. 16 GAUGE FRAME, MINIMUM 20 GAUGE STEEL WELDED PAN DOOR PANEL, INSULATED WITH NON-COMBUSTIBLE FILLER.
  - c. SELF CLOSING AND SELF LATCHING, WITH INTERIOR LATCH RELEASE.
  - d. FULLY CONCEALED PIN TYPE HINGES OR CONTINUOUS PIANO HINGE, 175 DEGREE OPENING.
  - e. RING TURN LATCH.
- 2. NON RATED CONCEALED DRYWALL ACCESS DOOR:
  - a. RECESSED TYPE DESIGN.
  - b. MINIMUM 13 GAUGE STEEL FRAME, MINIMUM 16 GAUGE STEEL DOOR PANEL RECESSED TO RECEIVE DRYWALL.
  - c. INTEGRAL ATTACHMENT FLANGE AND DRYWALL BEAD FOR FLUSH INSTALLATION.
  - d. FULLY CONCEALED PIVOT ROD HINGE.
  - e. LATCHES: SCREW DRIVER OPERATED CAM LATCH.
- 3. TOILET ROOM FAUCET POWER SUPPLY AND MIXING VALVE ACCESS DOORS: NON-RATED WALL TYPE, 12" X 12" H, STAINLESS STEEL, #4 FINISH, ONE PIECE FRAME, CONCEALED HINGE.
- 4. MINIMUM SIZES: PROVIDE ACCESS DOORS IN SIZES INDICATED. WHEN NOT INDICATED PROVIDE 12" X 12" SIZE FOR HAND ACCESS, AND 24" X 24" SIZE FOR MAIN ENTRY.

F. INSTALLATION:

- 1. PROVIDE ACCESS DOORS IN THE LOCATIONS INDICATED, AND FOR ACCESS TO BALANCING AND FIRE DAMPERS, TRAP PRIMERS, VALVES, FANS, TERMINAL UNITS, AND OTHER EQUIPMENT REQUIRING PERIODIC INSPECTION THROUGH FINISHED WALLS OR CEILING, WHETHER INDICATED OR NOT.
- 2. COORDINATE ACCESS REQUIREMENTS WITH OTHER TRADES.
- 3. PROVIDE CONCEALED DRYWALL ACCESS DOORS UNLESS FIRE RATED ACCESS DOORS ARE REQUIRED BECAUSE OF FIRE RATED CONSTRUCTION.

**083400 IMPACT DOORS**

A. SECTION INCLUDES: IMPACT DOORS AND HARDWARE.

B. SUBMITTALS:

- 1. PRODUCT DATA: SUBMIT MANUFACTURER'S PRODUCT DATA AND INSTALLATION INSTRUCTIONS.
- 2. SHOP DRAWINGS: INDICATE DOOR ELEVATIONS, HARDWARE LOCATIONS, VISION LITE LOCATIONS AND SIZES, FRAME REINFORCEMENT REQUIREMENTS, AND FINISHES.

C. MANUFACTURER: ELUSON CORPORATION, EASY SWING DOOR DIVISION, KALAMAZOO, MI (800/838-2555)

- 1. TYPE: MODEL SPJ 3.
- 2. DOOR BODY: 16 GAUGE STAINLESS STEEL WITH DELTA FORMED VERTICAL EDGES.
- 3. WINDOW: 9" X 14" CLEAR ACRYLIC SET IN BLACK RUBBER MOLDING.

D. ACCESSORIES:

- 1. EDGE CAPS: FORMED STAINLESS STEEL CHANNELS, 18 GAUGE, MINIMUM, TYPICAL AT 24" TOP EDGES.
- 2. BASE (KICK) PLATES: 18 GAUGE SATIN FINISH STAINLESS STEEL; DOOR WIDTH X 18 INCHES HIGH; FASTENED WITH STAINLESS STEEL NUTS.
- 3. PIVOTS: "EASY SWING" HINGE MECHANISM, STAINLESS STEEL.
- 4. FASTENERS: AS REQUIRED FOR COMPLETE INSTALLATION OF DOORS AND ACCESSORIES.
- 5. MAXIMUM DIAGONAL DISTORTION: 1/4" INCH MEASURED WITH STRAIGHT EDGE, CORNERS TO CORNER.
- 6. PRIOR TO INSTALLATION, VERIFY THAT FRAMES ARE PREPARED AND READY TO RECEIVE WORK OF THIS SECTION.

F. INSTALLATION:

- 1. INSTALL DOORS, HARDWARE, AND ACCESSORIES IN ACCORDANCE WITH SHOP DRAWINGS AND MANUFACTURER'S INSTRUCTIONS.
- 2. THE BOTTOM PIVOT ASSEMBLY SHALL BE SECURED TO THE FRAME ONLY. DO NOT SECURE THE BOTTOM FLANGE OF THE PIVOT ASSEMBLY TO THE FLOOR WITH FASTENERS AS INDICATED IN MANUFACTURER'S STANDARD INSTALLATION INSTRUCTIONS AS THE FASTENERS WILL PENETRATE THE WATERPROOF MEMBRANE INSTALLED BENEATH THE FINISH FLOORING.

H. ADJUST AND CLEAN

- 1. REPAIR DAMAGE TO DOORS AND ACCESSORIES TO MATCH FABRICATOR'S ORIGINAL FINISH.
- 2. ADJUST MECHANISM SO MOVING PARTS OPERATE SMOOTHLY.

**083613 OVERHEAD SECTIONAL DOORS**

A. SYSTEM DESCRIPTION

- 1. OVERHEAD SECTIONAL DOOR ASSEMBLIES SHALL INCLUDE, WITHOUT LIMITATION, SECTIONAL DOOR, TRACK, HINGES AND FITURES, ALL OVERHEAD MOUNTING SUPPORTS, COUNTERBALANCE SYSTEM, AND ALL OTHER ACCESSORIES REQUIRED FOR A COMPLETE INSTALLATION.

B. SUBMITTALS

- 1. PRODUCT DATA: SUBMIT MANUFACTURER'S COMPLETE PRODUCT LITERATURE INDICATING SPECIFIED ITEMS AND METHOD OF INSTALLATION.
- 2. SHOP DRAWINGS: INDICATE DETAILS AND DIMENSIONS OF FABRICATION AND INSTALLATION, INCLUDING LOOKS, TRACK MOUNTING, SUPPORTS, AND LOCATION OF OPERATING MECHANISM.
- 3. LOCK: MANUFACTURER'S STANDARD.
- 4. PUSH-UP TYPE: PROVIDE ROPE PULL FOR DOORS UP TO 8'-0" WIDE AND CHAIN OPERATED TYPE FOR DOORS WIDER THAN 8'-0".

E. EXAMINATION

- 1. PRIOR TO STARTING WORK, CAREFULLY INSPECT INSTALLED WORK OF OTHER TRADES AND VERIFY THAT SUCH WORK IS COMPLETE TO THE POINT WHERE WORK OF THIS SECTION MAY PROPERLY COMMENCE. NOTIFY THE ARCHITECT IN WRITING OF CONDITIONS DETRIMENTAL TO THE PROPER AND TIMELY COMPLETION OF THE WORK.
- 2. DO NOT BEGIN INSTALLATION UNTIL ALL UNSATISFACTORY CONDITIONS ARE RESOLVED. BEGINNING WORK CONSTITUTES ACCEPTANCE OF SITE CONDITIONS AND RESPONSIBILITY FOR DEFECTIVE INSTALLATION CAUSED BY PRIOR OBSERVABLE CONDITIONS.
- 3. VERIFY OPENINGS ARE CORRECTLY DIMENSIONED WITH HEADERS, LEMBS, PLUMB, AND FLOOR LEVEL.

F. INSTALLATION

- 1. INSTALL DOOR ASSEMBLIES AS INDICATED IN ACCORDANCE WITH MANUFACTURER'S INSTALLATION INSTRUCTIONS.
- 2. INSTALL DOORS FREE FROM WARP, TWISTS, OR DISTORTION.

G. REPAIR AND ADJUSTMENT

- 1. ADJUST MECHANISM SO MOVING PARTS OPERATE SMOOTHLY.
- 2. REPAIR DAMAGE TO OVERHEAD SECTIONAL DOORS TO MATCH MANUFACTURER'S ORIGINAL FINISH. REPLACE COMPONENTS WHICH CANNOT BE PROPERLY REPAIRED.

**084010 ALUMINUM ENTRANCES AND STOREFRONTS**

A. SUMMARY

1. SECTION INCLUDES:

- a. ALUMINUM FRAMED STOREFRONT AND WINDOW SYSTEMS.
- b. ALUMINUM FRAMED GLASS ENTRANCE DOORS INTEGRAL WITH ALUMINUM FRAMED GLAZING SYSTEMS.
- c. ALUMINUM PANEL AND TRIM RELATED TO ALUMINUM FRAMED GLAZING SYSTEMS.
- d. SEALANTS WITHIN ALUMINUM FRAMED GLAZING SYSTEMS.
- e. RELATED FLASHING AND TRIM.
- f. RELATED ANCHOR BRACKETS AND SUPPORTS.
- g. STRUCTURAL DESIGN OF ALUMINUM FRAMED GLAZING SYSTEMS, INCLUDING FRAMING AND ATTACHMENT TO STRUCTURE.

2. HARDWARE FOR ENTRY DOORS.

3. RELATED SECTIONS:

- a. 079200 - JOINT SEALANTS: PERIMETER JOINT FILLERS.
- b. 081700 - DOOR HARDWARE: DOOR HARDWARE OTHER THAN THAT SPECIFIED IN THIS SECTION; TEMPLATE.
- c. 088000 - GLAZING: GLASS AND GLAZING.
- d. DRAWINGS, THE PROVISIONS OF THE AGREEMENT, THE GENERAL CONDITIONS, AND DIVISION 1 SPECIFICATION.

B. SYSTEM DESCRIPTION

- 1. APPEARANCE: SYSTEM SHALL CONFORM TO THE GENERAL APPEARANCE AS INDICATED ON THE DRAWINGS, INCLUDING WITHOUT LIMITATION, POSITION, SPACING, AND LOCATION OF FRAMING MEMBERS, PLANE OF GLAZING, EXTERIOR FRAME GENERAL PROFILE AND SHAPE, AND DIMENSION POINTS.
- 2. THERMAL PERFORMANCE:

- a. SYSTEMS SHALL ACCOMMODATE EXPANSION AND CONTRACTION CAUSED BY A TEMPERATURE RANGE OF -20 DEGREES F. TO +160 DEGREES F. WITHOUT DETRIMENTAL EFFECTS TO COMPONENTS, SEALING SYSTEMS, AND SUBROUNDING CONSTRUCTION.
- b. THERMAL TRANSMITTANCE: MAXIMUM U=0.60 WHEN TESTED IN ACCORDANCE WITH NFRC REQUIREMENTS. PROVIDE CURTAIN WALL SYSTEMS WITH CERTIFICATION STATING THAT THEY HAVE BEEN TESTED IN ACCORDANCE WITH NFRC TO MEET THE SPECIFIED REQUIREMENTS USING GLASS WHICH MATCHES THE GLASS TO BE USED IN THE PROJECT.

3. PERFORMANCE - AIR INFILTRATION:

- a. AIR INFILTRATION STOREFRONT, WINDOW, AND CURTAINWALL SYSTEMS: NOT TO EXCEED 0.05 CFM PER SQUARE FOOT OF FIXED AREA WHEN TESTED IN ACCORDANCE WITH ASTM E283 AT A STATIC PRESSURE DIFFERENTIAL OF 6.24 PSF.
- b. AIR INFILTRATION ALUMINUM ENTRANCE DOORS: LIMIT AIR INFILTRATION THROUGH ASSEMBLY TO 0.05CF2/MIN/FT. OF PERIMETER CRACK, MEASURED AT A STATIC DIFFERENTIAL PRESSURE OF 1.57PSF AS MEASURED IN ACCORDANCE WITH ASTM E283.

4. PERFORMANCE - WATER PENETRATION:

- a. DESIGN SYSTEMS TO DRAIN WATER, INCLUDING CONDENSATION, TO THE EXTERIOR.
- b. WATER PENETRATION STOREFRONT AND WINDOW SYSTEMS: NO WATER PENETRATION WHEN TESTED IN ACCORDANCE WITH ASTM E331 AT A STATIC PRESSURE DIFFERENTIAL OF 20 PERCENT OF THE DESIGNED WIND PRESSURE.

5. STRUCTURAL DESIGN:

- a. DESIGN AND SIZE MEMBERS TO WITHSTAND POSITIVE AND NEGATIVE WIND LOADS AS INDICATED ON THE STRUCTURAL DRAWINGS.

1. SYSTEM SHALL LIMIT FRAMING DEFLECTION TO 1/175 OF THE SPAN, AND ALLOWABLE STRESS WITHIN A SAFETY FACTOR OF 1.65, WHICHEVER IS GREATEST, UNDER WIND LOAD TESTED ON THE STRUCTURAL DRAWINGS.

- a. ANCHORAGES AND INSERTS SHALL BE DESIGNED TO RESIST ALL DESIGN AND LIVE LOADS, IN COMBINATIONS AS SPECIFIED, AND INCLUDING A CONTRIBUTION OF 1.25 X THE DESIGN WIND LOAD.
- b. SEISMIC DESIGN: THE INSTALLED SYSTEM SHALL BE CAPABLE OF ACCOMMODATING SEISMIC LOADS IN COMPLIANCE WITH CODE REQUIREMENTS.

6. DYNAMIC MOVEMENT: SYSTEM SHALL ACCOMMODATE THE FOLLOWING WITHOUT DAMAGE TO SYSTEM COMPONENTS OR PERFORMANCE:

- a. MOVEMENT WITHIN THE SYSTEM
- b. MOVEMENT BETWEEN THE SYSTEM AND PERIMETER FRAMING COMPONENTS.
- c. APPLICATION AND RELEASE OF DESIGN LIVE LOADS
- d. DEFLECTION OF STRUCTURAL SUPPORT FRAMING
- e. MAXIMUM WIND AND SEISMIC MOVEMENT SHALL CALCULATED AS A MAXIMUM STORY DRIFT OF .005 TIMES THE STORY HEIGHT.

7. UNDER NORMAL CIRCUMSTANCES, SYSTEMS SHALL NOT EXHIBIT VIBRATION HARMONICS, WIND WHISTLES, AND NOISES CAUSED BY THERMAL MOVEMENT UNDER THE FULL RANGE OF DESIGN LOADS AND CONDITIONS, THE SYSTEMS SHALL NOT EXHIBIT LOOSENING, WEAKENING, OR FRACTURING OF ATTACHMENTS OR COMPONENTS OF THE SYSTEM, INCLUDING GLAZING AND SEALANTS.

C. SUBMITTALS

1. MAKE SUBMITTALS IN ACCORDANCE WITH SECTION 013300.
2. PRODUCT DATA: MANUFACTURER'S COMPLETE PRODUCT FOR ALL COMPONENTS AND SYSTEMS PROPOSED.
3. SHOP DRAWINGS:
  - a. ELEVATIONS, SYSTEM DIMENSIONS, AND EXPANSION AND CONTRACTION JOINT LOCATION.
  - b. ALL SPECIAL AND TYPICAL DETAILS.
  - c. FRAMING PROFILES.
  - d. MATERIALS AND FINISHES.
  - e. ADJACENT CONSTRUCTION.
  - f. ANCHORAGE SYSTEM DETAILS.
  - g. FASTENING METHODS.
  - h. SHOP DRAWINGS SHALL BE STAMPED BY THE DESIGNING STRUCTURAL ENGINEER.
4. SAMPLES:
  - a. SUBMIT ONE SAMPLE OF A TYPICAL WINDOW CORNER SECTION WITH MINIMUM 12 INCH LONG LEGS. FINISH TO MATCH ARCHITECT'S SAMPLE. INCLUDE TYPICAL GLASS UNIT AND GLAZING SYSTEM.
5. QUALITY CONTROL SUBMITTALS:
  - a. CERTIFICATION: SUBMIT CERTIFICATION THAT THE PRECAST STAR SYSTEMS HAVE BEEN DESIGNED TO MEET THE SPECIFIED REQUIREMENTS.
  - b. TEST REPORTS: SUBMIT COPIES OF TEST REPORTS WHICH VERIFY THAT EACH ALUMINUM FRAMED GLAZING SYSTEM MEETS THE AIR AND WATER INFILTRATION PERFORMANCE REQUIREMENTS SPECIFIED.
6. CLOSURED SUBMITTALS:
  - a. IN ACCORDANCE WITH SECTION 017700.
  - b. SUBMIT DESIGNING ENGINEER'S CERTIFICATION THAT PRODUCTS AND INSTALLATION COMPLY WITH DESIGN REQUIREMENTS.

D. QUALITY ASSURANCE

1. INSTALLERS: UNDER THE DIRECT SUPERVISION OF THE MANUFACTURER OF THE ALUMINUM FRAMED GLAZING SYSTEM.
2. DESIGN: STRUCTURAL DESIGN OF THE ALUMINUM FRAMED GLAZING SYSTEMS SHALL BE BY A STRUCTURAL ENGINEER LICENSED TO PRACTICE IN THE STATE OF WHERE THE PROJECT IS LOCATED.
3. STRUCTURAL WELDING SHALL BE PERFORMED BY AWS CERTIFIED WELDERS.
4. ALL MATERIALS SHALL CONFORM TO THE METAL CURTAIN WALL GUIDE SPECIFICATIONS AS PUBLISHED BY THE ARCHITECTURAL ALUMINUM MANUFACTURER'S ASSOCIATION.

E. MANUFACTURER'S WARRANTY

1. FURNISH MANUFACTURER'S STANDARD FIVE YEAR WRITTEN WARRANTY EXECUTED TO THE OWNER, FROM THE MANUFACTURER OF EACH ALUMINUM FRAMED GLAZING SYSTEM, AGAINST DEFECTS IN MATERIALS AND WORKSMANSHIP, IN ACCORDANCE WITH SECTION 017700.

F. GUARANTEE

1. FURNISH FROM THE INSTALLER, A TWO YEAR WRITTEN GUARANTEE AGAINST DEFECTS IN INSTALLATION IN ACCORDANCE WITH SECTION 017700.

G. MATERIALS

1. EXTRUDED ALUMINUM: ASTM B221, 6063-T5 ALLOY AND TEMPER.
2. SHEET ALUMINUM: ASTM R209, 5005-H32 ALLOY, OR APPROVED.

H. DESIGN:

1. WINDOW T-451 (NON-INSULATED) AND T-451T (INSULATED) SYSTEMS OR EQUAL. PROVIDE INSULATED SYSTEMS AT ALL EXTERIOR LOCATIONS.

I. COMPONENTS

1. DOOR HARDWARE:

- a. HINGES: MANUFACTURER'S STANDARD CENTER PIVOT HINGES.
- b. CONCEALED CLOSERS: LCN 2030 SERIES; 8.5 LBS. FORCE EXTERIOR, 5 LBS. INTERIOR.
- c. RAIL LOADS: ADJUST RITE HG-19141-01 SINGLE POINT; DESIGNED TO RECEIVE CYLINDER SPECIFIED IN SECTION 087100.
- d. THRESHOLDS: EXTRUDED ALUMINUM.
- e. WEATHERSTRIPPING: MANUFACTURER'S STANDARD.
- f. REMAINING HARDWARE IS SPECIFIED IN SECTION 087100.

2. GLAZING BEADS: DENSE CLOSED CELL FOAM TAPE, OR FOAM WITH SILICONE SEALED CORNERS. FURNISH FOR INSTALLATION AS A PART OF THE WORK OF SECTION 088000.

3. GLASS: AS SPECIFIED IN SECTION 079200.

4. SEALANTS: AS SPECIFIED IN SECTION 079200.

5. FASTENERS: ASTM A164; ALUMINUM, STAINLESS STEEL, OR ZINC PLATED STEEL.

J. ALUMINUM FRAMED GLAZING SYSTEMS FABRICATION

1. FABRICATE FRAMES ALLOWING FOR SHAP SWAGING AROUND PERIMETER OF ASSEMBLY, YET ENABLING INSTALLATION.
2. IN SO FAR AS PRACTICAL, FITTING AND ASSEMBLY OF THE WORK SHALL BE PERFORMED IN THE SHOP.
3. MAKE JOINTS FLUSH, UNIFORM, HAIRLINE (MAXIMUM 1/16 INCH, EXCEPT FOR EXPANSION JOINTS), AND WEATHERPROOF. SEAL JOINTS WITH SEALANT.
4. RIDGID FIT JOINTS AND CORNERS. ACCURATELY FIT AND SECURE CORNERS TIGHT. MAKE CORNER JOINTS FLUSH, UNIFORM, HAIRLINE (MAXIMUM 1/16 INCH, EXCEPT FOR EXPANSION JOINTS), AND WEATHERPROOF. SEAL JOINTS WITH SEALANT.
5. PROVIDE DRAINAGE HOLES TO ALLOW WATER TO FLOW TO EXTERIOR.
6. PREPARE COMPONENTS TO RECEIVE ANCHORAGE DEVICES. FABRICATE ANCHORAGE ITEMS.
7. PROVIDE INTERNAL REINFORCEMENT IN MULLIONS WITH MEMBERS TO MAINTAIN RIGIDITY. PROVIDE REINFORCING AT ALL DOOR STROKE JAMBS.
8. FABRICATE FRAMING SYSTEMS TO ACCOMMODATE HARDWARE USING TEMPLATES FURNISHED FROM THE HARDWARE SUPPLIER.
9. FABRICATE SILL AND OTHER FLASHING TO DIRECT WATER TO THE EXTERIOR.

K. ALUMINUM PANEL FABRICATION

1. FORM PANELS TO THE CONFIGURATIONS INDICATED. USE .0125 INCH THICK ALUMINUM OR THICKNESSES AS NECESSARY TO PREVENT OIL CANNING AND TO RESIST DAMAGE FROM IMPACT.
2. FABRICATE PANELS WITH CONCEALED ANCHORAGE TO ADJACENT CONSTRUCTION.
3. UNLESS OTHERWISE OTHERWISE, FABRICATE PANELS WITH BRAMCO FORMED CORNERS, BACK ROUTE PANELS THICKER THAN .125 INCH THICKNESS FOR MINIMUM RIBS AT CORNERS AND WEST COAST. WEED EXPOSED EDGES CONTINUOUSLY AND GRIND SMOOTH.
4. BASE FABRICATION ON AN ASSUMED DESIGN TEMPERATURE OF 70 DEGREES F. ALLOW FOR AMBIENT TEMPERATURE RANGE AT TIME OF ERECTION.
5. FABRICATE PANELS WITH SHARP AND TRUE LINES, BREAKS AND ANGLES. SURFACE SHALL BE FREE OF OIL CANNING, WARPS, OR BUCKLES. CURVATURE RIQUE INDICATED PANELS AND EDGE EXTRUSIONS.
6. PROVIDE STIFFENERS SECURED TO THE REAR FACE OF THE PANELS AND TRIM AS NECESSARY TO RESIST DESIGN LOADS AND TO ELIMINATE OIL-CANNING.
7. ALLOWABLE PANEL TOLERANCES:
  - a. FINENESS: NO POINT ON A SURFACE PLANE SHALL VARY MORE THAN 1/8 INCH UNDER A 10 FOOT STRAIGHT EDGE.
  - b. EDGE STRAIGHTNESS: NO POINT ON AN EDGE OR ARRIS SHALL VARY MORE THAN 1/16 INCH UNDER A 10 FOOT STRAIGHT EDGE.
  - c. SHAPES: NO SHAPE SHALL VARY FROM ITS PRESCRIBED LOCATION MORE THAN 1/8 INCH IN ANY DIRECTION.
  - d. PANEL DIMENSIONS: NOT MORE THAN 1/16 INCH FROM INDICATED DIMENSION.
  - e. CURVES: NO POINT ON THE SURFACE OF THE CURVE SHALL VARY FROM THE PRESCRIBED ARC MORE THAN 1 PERCENT OF THE RADIUS.

L. FINISHES

1. FINISH FOR EXPOSED ALUMINUM SURFACES: MINIMUM 20 PERCENT RESIN KYNAR 500 OR HYLAR 5000 PVD SYSTEM. COMPLYING WITH AAMA 2605, CUSTOM NON-EXOTIC COLOR AS LISTED IN THE EXTERIOR FINISH SCHEDULE.
2. STEEL ANCHORAGES AND SUPPORTS: CLEAN AND APPLY RUST RESISTANT PRIMER.
3. ISOLATE ALUMINUM FROM DISSIMILAR MATERIALS.

M. EXAMINATION

1. PRIOR TO STARTING WORK, CAREFULLY INSPECT INSTALLED WORK OF OTHER TRADES AND VERIFY THAT SUCH WORK IS COMPLETE TO THE POINT WHERE WORK OF THIS SECTION MAY PROPERLY COMMENCE. NOTIFY THE ARCHITECT IN WRITING OF CONDITIONS DETRIMENTAL TO THE PROPER AND TIMELY COMPLETION OF THE WORK.
2. DO NOT BEGIN INSTALLATION UNTIL ALL UNSATISFACTORY CONDITIONS ARE RESOLVED. BEGINNING WORK CONSTITUTES ACCEPTANCE OF SITE CONDITIONS AND RESPONSIBILITY FOR DEFECTIVE INSTALLATION CAUSED BY PRIOR OBSERVABLE CONDITIONS.

N. PREPARATION

1. COORDINATE DIMENSIONS, TOLERANCES, AND METHOD OF ATTACHMENT WITH THE OTHER WORK.
2. FURNISH INSERTS FOR PLACEMENT BY OTHER TRADES. COORDINATE LOCATIONS AND ALIGNMENT.

O. INSTALLATION

1. INSTALL FRAMES, DOORS, AND HARDWARE IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS AND THE APPROVED SHOP DRAWINGS.
2. USE ANCHORAGE DEVICES TO SECURELY ATTACH FRAMING SYSTEMS TO STRUCTURE.
3. ALIGN FRAMES PLUMB AND LEVEL, FREE OF WARP OR TWIST. MAINTAIN DIMENSIONAL TOLERANCES, ALIGNING WITH ADJACENT WORK.
4. STOREFRONT FRAMING:
  - a. INSTALL UNDER SILL ALUMINUM FLASHINGS. SEAL ALL FRAME JOINTS, AND PENETRATIONS IN FLASHINGS.
  - b. SUB-SILLS:
    - 1) PROVIDE EXTRUDED ALUMINUM SUB-SILLS IN ACCORDANCE WITH MANUFACTURER'S INSTALLATION INSTRUCTIONS AND AS SPECIFIED BELOW.
    - 2) PROVIDE END DAMS AND SPLICE PLATES SEALED INTO POSITION. END DAMS AND SPLICE PLATES SHALL MATCH THE HEIGHT OF THE SUB-SILL BACK.
    - 3) SEAL JOINT BETWEEN END DAM AND JAMB.
    - 4) FASTEN THE SUB-SILL SECURELY TO THE SILL CONSTRUCTION. CAP SEAL TOPS OF FASTENERS.
    - 5) FASTEN THE STOREFRONT FRAMING INTO THE SUB-SILL. USE THE MANUFACTURER'S STANDARD INTERLOCKING ANCHORS WHICH ENGAGE THE SUB-SILL AND ALLOW FASTENING OF THE STOREFRONT WITHOUT PENETRATING THE HORIZONTAL PAN OF THE SUB-SILL.
    - 6) INSULATE WATER DIVERTERS.
    - 7) COMPENSATION HEADS:
      - 1) PROVIDE COMPENSATION CHANNELS AT HEAD CONDITIONS IN ACCORDANCE WITH MANUFACTURER'S INSTALLATION INSTRUCTIONS AND AS SPECIFIED BELOW.
      - 2) PROVIDE MANUFACTURER'S STANDARD END CAPS SEALED INTO POSITION. END CAPS SHALL MATCH THE HEIGHT OF THE COMPENSATION CHANNEL AND SHALL BE PRE-FINISHED TO MATCH THE FRAMING AT EXPOSED LOCATIONS.
      - 3) PROVIDE INTERLOCKING MULLION ANCHORS AT VERTICAL TURNS.
    - 8. PERIMETER SEALANT IS PROVIDED UNDER SECTION 079200 - JOINT SEALANTS.
5. INSTALL HARDWARE IN ACCORDANCE WITH THE REQUIREMENTS SPECIFIED IN SECTION 087100. ADJUST HARDWARE INSTALLED IN THIS SECTION FOR SMOOTH OPERATION.
6. PROTECT ALUMINUM FROM DISSIMILAR MATERIALS WITH A COATING OF BITUMINOUS PAINT, PLASTIC SEPARATOR MATERIALS, OR ISOLATION TAPE. KEEP ISOLATION MATERIALS UNEXPOSED TO VIEW.

D. WINDOW T-451 (NON-INSULATED) AND T-451T (INSULATED) SYSTEMS OR EQUAL. PROVIDE INSULATED SYSTEMS AT ALL EXTERIOR LOCATIONS.

I. COMPONENTS

1. DOOR HARDWARE:

- a. HINGES: MANUFACTURER'S STANDARD CENTER PIVOT HINGES.
- b. CONCEALED CLOSERS: LCN 2030 SERIES; 8.5 LBS. FORCE EXTERIOR, 5 LBS. INTERIOR.
- c. RAIL LOADS: ADJUST RITE HG-19141-01 SINGLE POINT; DESIGNED TO RECEIVE CYLINDER SPECIFIED IN SECTION 087100.
- d. THRESHOLDS: EXTRUDED ALUMINUM.
- e. WEATHERSTRIPPING: MANUFACTURER'S STANDARD.
- f. REMAINING HARDWARE IS SPECIFIED IN SECTION 087100.

2. GLAZING BEADS: DENSE CLOSED CELL FOAM TAPE, OR FOAM WITH SILICONE SEALED CORNERS. FURNISH FOR INSTALLATION AS A PART OF THE WORK OF SECTION 088000.

3. GLASS: AS SPECIFIED IN SECTION 079200.

4. SEALANTS: AS SPECIFIED IN SECTION 079200.

5. FASTENERS: ASTM A164; ALUMINUM, STAINLESS STEEL, OR ZINC PLATED STEEL.

J. ALUMINUM FRAMED GLAZING SYSTEMS FABRICATION

1. FABRICATE FRAMES ALLOWING FOR SHAP SWAGING AROUND PERIMETER OF ASSEMBLY, YET ENABLING INSTALLATION.
2. IN SO FAR AS PRACTICAL, FITTING AND ASSEMBLY OF THE WORK SHALL BE PERFORMED IN THE SHOP.
3. MAKE JOINTS FLUSH, UNIFORM, HAIRLINE (MAXIMUM 1/16 INCH, EXCEPT FOR EXPANSION JOINTS), AND WEATHERPROOF. SEAL JOINTS WITH SEALANT.
4. RIDGID FIT JOINTS AND CORNERS. ACCURATELY FIT AND SECURE CORNERS TIGHT. MAKE CORNER JOINTS FLUSH, UNIFORM, HAIRLINE (MAXIMUM 1/16 INCH, EXCEPT FOR EXPANSION JOINTS), AND WEATHERPROOF. SEAL JOINTS WITH SEALANT.
5. PROVIDE DRAINAGE HOLES TO ALLOW WATER TO FLOW TO EXTERIOR.
6. PREPARE COMPONENTS TO RECEIVE ANCHORAGE DEVICES. FABRICATE ANCHORAGE ITEMS.
7. PROVIDE INTERNAL REINFORCEMENT IN MULLIONS WITH MEMBERS TO MAINTAIN RIGIDITY. PROVIDE REINFORCING AT ALL DOOR STROKE JAMBS.
8. FABRICATE FRAMING SYSTEMS TO ACCOMMODATE HARDWARE USING TEMPLATES FURNISHED FROM THE HARDWARE SUPPLIER.
9. FABRICATE SILL AND OTHER FLASHING TO DIRECT WATER TO THE EXTERIOR.

K. ALUMINUM PANEL FABRICATION

1. FORM PANELS TO THE CONFIGURATIONS INDICATED. USE .0125 INCH THICK ALUMINUM OR THICKNESSES AS NECESSARY TO PREVENT OIL CANNING AND TO RESIST DAMAGE FROM IMPACT.
2. FABRICATE PANELS WITH CONCEALED ANCHORAGE TO ADJACENT CONSTRUCTION.
3. UNLESS OTHERWISE OTHERWISE, FABRICATE PANELS WITH BRAMCO FORMED CORNERS, BACK ROUTE PANELS THICKER THAN .125 INCH THICKNESS FOR MINIMUM RIBS AT CORNERS AND WEST COAST. WEED EXPOSED EDGES CONTINUOUSLY AND GRIND SMOOTH.
4. BASE FABRICATION ON AN ASSUMED DESIGN TEMPERATURE OF 70 DEGREES F. ALLOW FOR AMBIENT TEMPERATURE RANGE AT TIME OF ERECTION.
5. FABRICATE PANELS WITH SHARP AND TRUE LINES, BREAKS AND ANGLES. SURFACE SHALL BE FREE OF OIL CANNING, WARPS, OR BUCKLES. CURVATURE RIQUE INDICATED PANELS AND EDGE EXTRUSIONS.
6. PROVIDE STIFFENERS SECURED TO THE REAR FACE OF THE PANELS AND TRIM AS NECESSARY TO RESIST DESIGN LOADS AND TO ELIMINATE OIL-CANNING.
7. ALLOWABLE PANEL TOLERANCES:
  - a. FINENESS: NO POINT ON A SURFACE PLANE SHALL VARY MORE THAN 1/8 INCH UNDER A 10 FOOT STRAIGHT EDGE.
  - b. EDGE STRAIGHTNESS: NO POINT ON AN EDGE OR ARRIS SHALL VARY MORE THAN 1/16 INCH UNDER A 10 FOOT STRAIGHT EDGE.
  - c. SHAPES: NO SHAPE SHALL VARY FROM ITS PRESCRIBED LOCATION MORE THAN 1/8 INCH IN ANY DIRECTION.
  - d. PANEL DIMENSIONS: NOT MORE THAN 1/16 INCH FROM INDICATED DIMENSION.
  - e. CURVES: NO POINT ON THE SURFACE OF THE CURVE SHALL VARY FROM THE PRESCRIBED ARC MORE THAN 1 PERCENT OF THE RADIUS.

L. FINISHES

1. FINISH FOR EXPOSED ALUMINUM SURFACES: MINIMUM 20 PERCENT RESIN KYNAR 500 OR HYLAR 5000 PVD SYSTEM. COMPLYING WITH AAMA 2605, CUSTOM NON-EXOTIC COLOR AS LISTED IN THE EXTERIOR FINISH SCHEDULE.
2. STEEL ANCHORAGES AND SUPPORTS: CLEAN AND APPLY RUST RESISTANT PRIMER.
3. ISOLATE ALUMINUM FROM DISSIMILAR MATERIALS.

M. EXAMINATION

1. PRIOR TO STARTING WORK, CAREFULLY INSPECT INSTALLED WORK OF OTHER TRADES AND VERIFY THAT SUCH WORK IS COMPLETE TO THE POINT WHERE WORK OF THIS SECTION MAY PROPERLY COMMENCE. NOTIFY THE ARCHITECT IN WRITING OF CONDITIONS DETRIMENTAL TO THE PROPER AND TIMELY COMPLETION OF THE WORK.
2. DO NOT BEGIN INSTALLATION UNTIL ALL UNSATISFACTORY CONDITIONS ARE RESOLVED. BEGINNING WORK CONSTITUTES ACCEPTANCE OF SITE CONDITIONS AND RESPONSIBILITY FOR DEFECTIVE INSTALLATION CAUSED BY PRIOR OBSERVABLE CONDITIONS.

N. PREPARATION

1. COORDINATE DIMENSIONS, TOLERANCES, AND METHOD OF ATTACHMENT WITH THE OTHER WORK.
2. FURNISH INSERTS FOR PLACEMENT BY OTHER TRADES. COORDINATE LOCATIONS AND ALIGNMENT.

O. INSTALLATION

1. INSTALL FRAMES, DOORS, AND HARDWARE IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS AND THE APPROVED SHOP DRAWINGS.
2. USE ANCHORAGE DEVICES TO SECURELY ATTACH FRAMING SYSTEMS TO STRUCTURE.
3. ALIGN FRAMES PLUMB AND LEVEL, FREE OF WARP OR TWIST. MAINTAIN DIMENSIONAL TOLERANCES, ALIGNING WITH ADJACENT WORK.
4. STOREFRONT FRAMING:
  - a. INSTALL UNDER SILL ALUMINUM FLASHINGS. SEAL ALL FRAME JOINTS, AND PENETRATIONS IN FLASHINGS.
  - b. SUB-SILLS:
    - 1) PROVIDE EXTRUDED ALUMINUM SUB-SILLS IN ACCORDANCE WITH MANUFACTURER'S INSTALLATION INSTRUCTIONS AND AS SPECIFIED BELOW.
    - 2) PROVIDE END DAMS AND SPLICE PLATES SEALED INTO POSITION. END DAMS AND SPLICE PLATES SHALL MATCH THE HEIGHT OF THE SUB-SILL BACK.
    - 3) SEAL JOINT BETWEEN END DAM AND JAMB.
    - 4) FASTEN THE SUB-SILL SECURELY TO THE SILL CONSTRUCTION. CAP SEAL TOPS OF FASTENERS.
    - 5) FASTEN THE STOREFRONT FRAMING INTO THE SUB-SILL. USE THE MANUFACTURER'S STANDARD INTERLOCKING ANCHORS WHICH ENGAGE THE SUB-SILL AND ALLOW FASTENING OF THE STOREFRONT WITHOUT PENETRATING THE HORIZONTAL PAN OF THE SUB-SILL.
    - 6) INSULATE WATER DIVERTERS.
    - 7) COMPENSATION HEADS:
      - 1) PROVIDE COMPENSATION CHANNELS AT HEAD CONDITIONS IN ACCORDANCE WITH MANUFACTURER'S INSTALLATION INSTRUCTIONS AND AS SPECIFIED BELOW.
      - 2) PROVIDE MANUFACTURER'S STANDARD END CAPS SEALED INTO POSITION. END CAPS SHALL MATCH THE HEIGHT OF THE COMPENSATION CHANNEL AND SHALL BE PRE-FINISHED TO MATCH THE FRAMING AT EXPOSED LOCATIONS.
      - 3) PROVIDE INTERLOCKING MULLION ANCHORS AT VERTICAL TURNS.
    - 8. PERIMETER SEALANT IS PROVIDED UNDER SECTION 079200 - JOINT SEALANTS.
5. INSTALL HARDWARE IN ACCORDANCE WITH THE REQUIREMENTS SPECIFIED IN SECTION 087100. ADJUST HARDWARE INSTALLED IN THIS SECTION FOR SMOOTH OPERATION.
6. PROTECT ALUMINUM FROM DISSIMILAR MATERIALS WITH A COATING OF BITUMINOUS PAINT, PLASTIC SEPARATOR MATERIALS, OR ISOLATION TAPE. KEEP ISOLATION MATERIALS UNEXPOSED TO VIEW.

9. TOUCH-UP ALL DAMAGE COATINGS WITH MATERIALS TO MATCH THE ORIGINAL COLORING. REMOVE AND REPLACE WITH NEW ALL DAMAGED COMPONENTS WHICH CANNOT BE REPAIRED AS DETERMINED BY THE ARCHITECT.

10. INSTALLATION TOLERANCES

1. VARIATION FROM PLANE: 0.06 INCHES EVERY THREE FEET MAXIMUM OR 0.25 INCHES PER 100 FEET, WHICHEVER IS LESS.
2. MISALIGNMENT OF TWO ADJOINING MEMBERS ABUTTING IN PLANE: 0.015 INCHES.

F. FIELD QUALITY CONTROL

1. HOSE TEST INSTALLATION IN ACCORDANCE WITH AAMA 5012 ( MODIFIED TO EXCLUDE THE APPEARANCE OF ANY WATER AT THE INTERIOR) AT SELECTED LOCATIONS AS APPROVED BY THE ARCHITECT. HOSE TEST SEPARATELY FOR EACH TYPE OF SYSTEM TO BE PROVIDED.
2. SHOULD TESTING SHOW LEAKAGE, ELIMINATE THE CAUSE OF SUCH LEAKAGE AT NO ADDITIONAL COST TO THE OWNER. REMEDIAL MEASURES SHALL CONFORM TO THE SPECIFIED REQUIREMENTS FOR THE ORIGINAL INSTALLATION.
3. THE TESTING MAY BE WITNESSED BY THE OWNER AND THE ARCHITECT. FURNISH A MINIMUM OF 5 WORKING DAYS NOTICE PRIOR TO TESTING.

G. CLEANING

1. REMOVE PROTECTIVE MATERIAL FROM PREFINISHED ALUMINUM SURFACES IF APPLICABLE.
2. WASH DOWN EXPOSED SURFACES USING A SOLUTION OF MILD DETERGENT IN WARM WATER, APPLIED WITH SOFT, CLEAN WIPING CLOTHS. TAKE CARE TO REMOVE DIRT FROM CORNERS. WIFE SURFACES CLEAN.

H. FIELD QUALITY CONTROL

1. THE STRUCTURAL DESIGN ENGINEER OR AN AUTHORIZED REPRESENTATIVE SHALL VISIT THE SITE TO INSPECT THE WORK. VERIFY AND CERTIFY THAT THE INSTALLATION HAS BEEN INSTALLED IN ACCORDANCE WITH THE STRUCTURAL REQUIREMENTS.

**087100 DOOR HARDWARE**

A. SUBMITTALS:

- 1. HARDWARE SCHEDULE: SUBMIT TO THE ARCHITECT, IN TRIPlicate, A COMPLETE SCHEDULE OF PROPOSED FINISH HARDWARE. SCHEDULE SHALL BE COMPLETELY DETAILED, SHOWING ALL ITEMS, NUMBERS AND FINISHES FOR ALL HARDWARE FOR EACH SEPARATE DRAWING.
- 2. SUPPLIER QUALIFICATIONS: FINISH HARDWARE SHALL BE SUPPLIED BY RECOGNIZED BUILDERS' HARDWARE SUPPLIER WHO HAS BEEN FURNISHING HARDWARE IN THE SAME AREA AS THE PROJECT FOR A PERIOD OF NOT LESS THAN FIVE YEARS. THE SUPPLIER'S ORGANIZATION SHALL INCLUDE CONSULTANTS WHO ARE AVAILABLE AT ALL REASONABLE TIMES DURING THE COURSE OF THE WORK TO MEET PERSONALLY WITH THE TENANT, ARCHITECT, OR CONTRACTOR FOR HARDWARE CONSULTATION. THE SUPPLIER SHALL MAINTAIN A PARTS INVENTORY OF ITEMS SUPPLIED FOR FUTURE SERVICE TO THE TENANT.

C. PRODUCTS: AS SCHEDULED ON THE DRAWINGS.

D. KEYS & KEYING

1. ALL CYLINDER ITEMS SHALL BE KEYS TO EXISTING BUILDING AS DIRECTED BY THE TENANT.
2. KEYS: FURNISH 3 FOR EACH CYLINDER UNIT.

E. INSTALLATION:

1. EXPOSED SURFACES OF HARDWARE SHALL BE COVERED AND WELL PROTECTED DURING INSTALLATION, SO AS TO AVOID DAMAGE TO FINISHES.
2. INSTALL EACH HARDWARE ITEM IN COMPLIANCE WITH MANUFACTURER'S INSTRUCTIONS. WHEREVER CUTTING AND FITTING ARE REQUIRED TO INSTALL HARDWARE INTO OR INTO SURFACES WHICH ARE LATER TO BE FINISHED OR FINISHED IN ANOTHER MANNER, INSTALL EACH ITEM COMPLETELY AND THEN REMOVE AND STORE IN A SECURE PLACE DURING THE FINISH OPERATION. AFTER COMPLETION OF THE FINISHES, REINSTALL EACH ITEM. DO NOT INSTALL SURFACE MOUNTED ITEMS UNTIL FINISHES HAVE BEEN COMPLETED ON THE SUBSTRATE.
3. HARDWARE MOUNTING HEIGHTS: MOUNTING HEIGHTS ARE BASED ON RECOMMENDATIONS OF THE NATIONAL BUILDERS' HARDWARE ASSOCIATION (NBHA). GENERALLY MOUNT HARDWARE UNITS AT THE FOLLOWING LOCATIONS ON EACH DOOR OR DOOR OPENING, EXCEPT AS OTHERWISE INDICATED ON THE DRAWINGS OR REQUIRED TO MEET CODE AND MANUFACTURER REQUIREMENTS. VERIFY ANY CONFLICTS WITH LOCATION OF OTHER HARDWARE FOR PROPER CLEARANCES FOR INSTALLATION PRIOR TO CUTTING OR MILLING FOR SPECIFIED HARDWARE. NOTIFY ARCHITECT IMMEDIATELY IF SUCH CONFLICTS ARE DETERMINED.
  - a. LATCH AND LOCKSETS: 38 INCHES FINISH FLOOR TO CENTER OF KNOB.
  - b. DEAD LOCKS: 52 INCHES FINISH FLOOR TO CENTER OF CYLINDER.
  - c. EMERGENCY EXIT CROSS BAR: 36 INCHES FROM FINISH FLOOR.
  - d. PUSH/PULL: 42 INCHES FINISH FLOOR TO CENTERLINE OF PUSH/PULL.
  - e. PUSH PLATE: 1/2 INCH TO CENTER OF DOOR; 42 INCHES TO CENTER LINE OF PLATE, EXCEPT 45 INCHES WHERE INDEPENDENT OF THE PUSH/PULL.
  - f. KICK PLATES: MOUNT AT BOTTOM EDGE OF DOOR AND 1/2 INCH FROM OUTSIDE EDGE OF DOOR;
  - g. TOP HINGE: 5 INCHES FROM TOP OF DOOR TO TOP OF HINGE.
  - h. BOTTOM HINGE: 10 INCHES FROM FINISH FLOOR TO BOTTOM OF HINGE.
  - i. CENTER HINGE: EQUAL DISTANCE BETWEEN TOP AND BOTTOM HINGES.
  - j. MULTIPLE HINGE LOCATIONS SHALL BE EQUALLY SPACED BETWEEN TOP AND BOTTOM HINGE.
  - k. WALL STOPS: CENTERLINE OF KNOB OR POINT OF FIRST CONTACT.
  - l. THRESHOLDS: MOUNT AT EXTERIOR DOORS SUCH THAT STOP BREAKPOINT ON THRESHOLD IS AT LEAD EDGE OF DOOR. SET IN FULL BEAD OF CAULKING MATERIAL.
  - m. CLOSING: MOUNT FOR MAXIMUM DEGREE OF OPENING OBTAINABLE CONSIDERING OTHER HARDWARE PROVIDED AND OPENING CONDITIONS. SIZE CLOSERS FOR CONDITIONS AND CODE REQUIREMENTS.
  - n. TRIM/PROTECTION: HICKPLATE SHALL BE 2" LOW X HEIGHT INDICATED.
  - o. OTHER HARDWARE ITEMS SHALL BE LOCATED AS RECOMMENDED BY NBHA, OR AS MAY BE SHOWN OR REQUIRED OTHERWISE.
4. ADJUSTING AND CLEANING: ADJUST AND CHECK EACH OPERATING ITEM OF HARDWARE AND EACH DOOR TO ENSURE PROPER OPERATION, CLEAN DOOR AND HARDWARE.

**088000 GLAZING**

A. SUBMITTALS:

1. SUBMITTALS SPECIFIED IN THIS SECTION MAY BE INCORPORATED INTO SUBMITTAL SPECIFIED IN OTHER SECTIONS, WHERE GLASS IS TO BE PROVIDED IN THOSE SECTIONS.
2. PRODUCT DATA: SUBMIT PRODUCT DATA ON GLASS, GLAZING MATERIALS, AND INSULATING GLAZING SYSTEM.

B. GLASS: PROVIDE THE FOLLOWING GLASS AS SCHEDULED AT THE END OF THIS SECTION:

1. CLEAR GLASS: ASTM C1036, TYPE 1, CLASS 1, CLEAR, QUALITY 03 GLAZING SELECT.

C. ACCESSORIES:

1. SILICONE SEALANT: DOW CORNING 790; CLEAR COLOR.
2. SETTING BLOCKS: COMPATIBLE WITH SILICONE SEALANTS; 70-90 SHORE A HARDNESS.
3. SPACERS: COMPATIBLE WITH SILICONE SEALANT.
4. GLAZING TAPE: TREADO "DOT" SPONGE, OR APPROVED.
5. GLAZING FILM: 3M "BUTOLIGHT 3635-205", OR EQUIVALENTS PERFORMANCE FILMS (LUNAR WINDOW FILMS) "NFM W P5"; ZERO VISIBLE LIGHT TRANSMITTANCE; PRESSURE-SENSITIVE ADHESIVE.

D. FABRICATION:

1. INSULATING GLASS UNITS:
  - a. DUAL LITE UNITS FABRICATED FROM GLASS AS SCHEDULED; 1/2 INCH NOMINAL ASPRACE DUAL SEAL SYSTEM.
  - b. TWIN SEALS: POLYISOBUTYLENE PRIMARY SEAL AND SILICONE SECONDARY SEAL. OUTER SEAL SHALL BE COMPATIBLE WITH GLAZING SYSTEM.
  - c. SPACER BAR: MILL FINISH ALUMINUM; FILL WITH DESICCANT; CORNERS SHALL BE PARTIALLY MITER CUT AND BENT (NOT CUT THROUGH), OR FORMED WITH CORNER KEYS ULTRASONICALLY SOLDERED IN PLACE.
  - d. CERTIFIED THROUGH THE INSULATING GLASS FABRICATING COUNCIL (IGCC) IN ACCORDANCE WITH ASTM E773 AND E774; CERTIFIED TO LEVEL CBA.
  - e. EACH PANE SHALL BE IDENTIFIED WITH MANUFACTURER'S IDENTIFICATION MARK.
2. TEMPERED AND HEAT STRENGTHENED GLASS:
  - a. TEMPERED GLASS: GLASS WHICH HAS BEEN HEAT TREATED TO STRENGTHEN GLASS IN BENDING TO NOT LESS THAN 4 TIMES THE ANNEALED STRENGTH; CERTIFIED SAFETY GLASS IN ACCORDANCE WITH ANSI Z97.1.
  - b. HEAT STRENGTHENED GLASS: ASTM C1048; GLASS WHICH HAS BEEN HEAT TREATED TO STRENGTHEN GLASS IN BENDING TO NOT LESS THAN 2 TIMES ANNEALED STRENGTH.
  - c. FABRICATE TEMPERED AND HEAT STRENGTHENED GLASS UNITS SO THAT PRINCIPLE DIRECTION OF STRENGTH WILL BE IN THE HORIZONTAL DIRECTION IN THE FINISHED INSTALLATION.
  - d. UNLESS OTHERWISE APPROVED BY THE BUILDING OFFICIAL, PROVIDE MANUFACTURER'S LABEL ON EACH LATCH, INDICATING TYPE AND THICKNESS OF GLASS. COMPLY WITH IBC REQUIREMENTS FOR IDENTIFICATION AND LABELING OF SAFETY-GLAZING MATERIALS IN HAZARDOUS LOCATIONS SUBJECT TO HUMAN IMPACT LOADS.

E. LOW E COATING: HIGH PERFORMANCE TYPE, APPLIED BY USING SPUTTERED DEPOSITION TECHNOLOGY.

1. BASIS OF DESIGN: PPG (PITTSBURGH PA; 412-434-2858) "SOLARBAN 60."
2. ACCEPTABLE SUBSTITUTION: VIBACON (OTTAWA, MAN. 800,533,2080) "SOLARGREEN 2000."

F. PREPARATION:

1. CLEAN CONTACT SURFACES AND WIPES DRY.
2. SEAL FRAME CORNER JOINTS, AND OTHER LEAKAGE POINTS WITH SEALANT. AT INSULATING GLASS UNITS THE SEALANT SHALL BE COMPATIBLE WITH THE SEAL OF THE UNIT. DO NOT PLOG WEEP HOLES.
3. FINE SURFACES SCHEDULED TO RECEIVE SEALANT, UNLESS OTHERWISE RECOMMENDED BY THE SEALANT MANUFACTURER.

G. INSTALLATION:

1. UNLESS SPECIFIED OTHERWISE, GLAZE IN ACCORDANCE WITH THE CURRENT EDITION OF GLASS ASSOCIATION OF NORTH AMERICA (GANA) GLAZING MANUAL.
2. SETTING BLOCKS: PLACE SETTING BLOCKS IN FRAMES FOR SUPPORT OF GLASS. PLACE AT QUARTER POINTS UNLESS APPROVED OTHERWISE.
3. SET GLASS TIGHTLY IN POSITION WITH PROPER CLEARANCES IN ACCORDANCE WITH THE REFERENCED STANDARD.
4. UNLESS SPECIFIED OTHERWISE, GLAZE UNITS WITH GASKETS FURNISHED WITH THE FRAMING SYSTEMS SPECIFIED IN OTHER SECTIONS.
5. GLAZING FOR INTERIOR NON-RATED DOORS AND WINDOWS, WHERE GASKETS ARE NOT FURNISHED:
  - a. GLAZE WITH GLAZING TAPE.
  - b. PRE-MEASURE AND CUT TAPES TO REQUIRED LENGTHS; ADHERE TO FIXED STOPS, SETTING HORIZONTAL TAPE AT HEADS AND SILLS BEFORE VERTICAL TAPE.
  - c. INSTALL TAPE WITH TIGHT BUTT JOINTS; NO OVERLAPS WILL BE ACCEPTED. SET TAPE WITH STRAIGHT LINES LEVEL WITH FRAME SIGHT LINE.
  - d. POSITION GLASS, UNIFORMLY SEALING AGAINST TAPE. INSTALL INSIDE REMOVABLE STOPS AND PLACE TAPE IN STOPS FORMING A UNIFORM SEAL AGAINST GLASS, LEVEL WITH SIGHT LINE.
6. GLAZING FOR FIRE RATED DOORS AND WINDOWS: GLAZE IN ACCORDANCE WITH NFPA 90, UNLESS REQUIRED OTHERWISE BY THE LABELING REQUIREMENT OF THE FRAME.
7. ADJUST GLAZING MATERIALS TO FORM A UNIFORM SIGHT LINE.

H. SCHEDULE:

1. TYPE 1: CLEAR 1/4 INCH THICK GLASS. PROVIDE TEMPERED WHERE INDICATED AND SPECIFIED.
2. TYPE 2: INSULATING GLASS, DOUBLE GLAZED UNITS WITH 1/2 INCH AIR SPACE BETWEEN TWO PAGES OF 1/4 INCH GLASS; OUTER PANE SHALL BE HEAT STRENGTHENED OR TEMPERED GLASS WITH LOW-E COATING ON #2 SURFACE; INNER PANE SHALL BE CLEAR GLASS. PROVIDE TEMPERED WHERE INDICATED AND SPECIFIED. UNLESS OTHERWISE SPECIFIED, GLAZE

d. USE A TRIM AT EXPOSED OPSUM BOARD EDGES (INCLUDING LIGHT COVES) (WHERE SEALANT JOINT IS INDICATED).  
7. CONTROL JOINTS:  
a. POSITION CONTROL JOINTS TO INTERSECT LIGHT FIXTURES, AIR DIFFUSERS, DOOR OPENINGS, AND OTHER AREAS OF STRESS CONCENTRATION.  
b. POSITION CONTROL JOINTS AT LOCATIONS WHERE EXPANSION OR CONTROL JOINTS OCCUR IN THE BUILDING STRUCTURE.  
c. LOCATE CONTROL JOINTS TO FORM RECTANGULAR OR SQUARE SECTIONS, IN "1," "1 1/2," "1," "1 1/2," OR OTHER IRREGULARLY SHAPED AREAS.  
8. FINISHING:  
a. PROVIDE FINISHING IN ACCORDANCE WITH CA 214.  
b. WHERE NECESSARY TO SAND, DO SO WITHOUT DAMAGING THE FACE OF THE OPSUM BOARD.  
c. LEVELS OF FINISH:  
1) LEVEL 5: PROVIDE AT THE FOLLOWING LOCATIONS:  
a) SURFACES PERPENDICULAR AND ADJACENT TO OR NEAR (WITHIN 24 INCHES OF) EXTERIOR WINDOWS, AND SURFACE MOUNTED LIGHT FIXTURES.  
b) SURFACES TO RECEIVE DEEP TONE COLORS.  
2) LEVEL 4: PROVIDE UNLESS INDICATED OR SPECIFIED OTHERWISE.  
3) LEVEL 3: PROVIDE AT THE FOLLOWING LOCATIONS:  
a) SURFACES TO RECEIVE FABRIC WALL COVERING.  
b) SURFACES TO RECEIVE TEXTURED FINISHES.  
4) LEVEL 2: PROVIDE AT THE FOLLOWING LOCATIONS:  
a) STORAGE ROOMS.  
b) MECHANICAL ROOMS.  
c) JANITORY CLOSETS.  
d) SURFACES TO RECEIVE TILE OR OTHER THIN FINISH MATERIALS APPLIED TO OPSUM BOARD SURFACES.  
5) LEVEL 1: PROVIDE AT THE FOLLOWING LOCATIONS:  
a) SURFACES OF FIRE RATED ASSEMBLIES CONCEALED FROM VIEW IN THE FINISHED WORK (FIRE-TAPPING).  
b) SURFACES OF ACOUSTICAL ASSEMBLIES CONCEALED FROM VIEW IN THE FINISHED WORK.  
6) LEVEL 0: PROVIDE AT THE FOLLOWING LOCATIONS:  
a) SURFACES OF NON-FIRE RATED ASSEMBLIES CONCEALED FROM VIEW IN THE FINISHED WORK, INCLUDING SURFACES TO BE COVERED BY CASEWORK, WOOD PANELING.  
d. LEVEL 4 AND 5 FINISHES: RETURN TO THE SITE AFTER PRIMER IS APPLIED AND TOUCH-UP SURFACE DEFECTS.

#### 03000 TILE

A. SUMMARY:  
1. INTERIOR WALL TILE.  
2. INTERIOR FLOOR TILE.  
3. TILE BACKER BOARD.  
4. SCREEDS.  
5. SEALER.  
B. SUBMITTALS:  
1. SAMPLES:  
a. TILE: SUBMIT SAMPLES OF EACH TYPE AND COLOR OF TILE. INCLUDE REPRESENTATIVE RANGE OF COLORS AND FINISHES TO BE EXPECTED.  
b. GROUT: SUBMIT CURED SAMPLES OF EACH GROUT COLOR. FURNISH 2 CURED SAMPLES OF APPROVED GROUT COLORS TO THE EXPANSION JOINT SEALER INSTALLER FOR COLOR MATCHING.  
c. SCREEDS: SUBMIT SAMPLES OF EACH TYPE AND FINISH OF SCREED, MAXIMUM 3 INCH LENGTH.  
d. PRODUCT DATA: SUBMIT FOR EACH TYPE OF TILE, GROUT, ADHESIVE, ADJACENT ACCESSORY, AND MEMBRANE SPECIFIED.  
3. SHOP DRAWINGS: INDICATE GENERAL LAYOUT, SURROUNDING CONSTRUCTION, LOCATION OF EXPANSION JOINTS IN SUBSTRATES AND TILE FIELDS, EDGE DETAILS, AND SPECIAL CONDITIONS.  
4. SCHEDULE: SUBMIT A SCHEDULE OF EACH TILE TYPE, GROUT, AND JOINT WITH COMBINATION PROPOSED.  
C. QUALITY ASSURANCE:  
1. CONFORM TO ANSI STANDARD SPECIFICATIONS FOR THE INSTALLATION OF CERAMIC TILE.  
D. TILE:  
1. TILE TYPES: TYPES AS INDICATED ON THE DRAWINGS.  
2. SPECIAL SHAPES: UNLESS OTHERWISE INDICATED OR SPECIFIED, FURNISH SPECIAL SHAPES AS STANDARD WITH THE TILE MANUFACTURER FOR UNIFORM TRANSITIONS AND CONCEALED EDGES IN THE FINISHED INSTALLATION. SPECIAL SHAPES INCLUDE BULLNOSES, DOUBLE BULLNOSES, CORNER BULLNOSES, AND LOVE ASSEMBLIES.  
E. ACCESSORY MATERIALS:  
1. SETTING MATERIALS:  
a. THINSET MORTAR: "KERABOND" WITH "UNIVERSAL KERAPLASTIC" BY MAPED CORP., "211 CRETE FILLER POWDER" WITH 4237 LATEX THIN-SET MORTAR ADDITIVE," BY LAITOCRE INTERNATIONAL INC., HYDROBOND TILE-MATE PREMIUM" WITH "447 FLEX-A-LASTIC" BY BOSKIC, OR APPROVED.  
b. RAPID-SET THIN BED MORTAR: "GRAN/RAPID" WITH "XER 3187 FLEXIBLE ADMIXTURE" BY MAPED CORP., HYDROBOND "SMINGLE FLEX FS," BY BOSKIC, OR "211 CRETE FILLER POWDER" WITH "4237 LATEX THIN-SET MORTAR ADDITIVE" AND "101 RAPID SET LATEX" (PROPORTIONS AS RECOMMENDED BY THE MANUFACTURER FOR THE SETTING TIME REQUIRED)," BY LAITOCRE INTERNATIONAL, INC.  
2. EPOXY GROUT: MAPED "KERAPROV," HYDROBOND "COLOR-POXY," BY BOSKIC, LAITOCRE INTERNATIONAL INC., "LATAPROY SP100," OR APPROVED. COLORS AS SELECTED FROM MANUFACTURER'S STANDARD.  
3. HIGH HEAT GROUT: TEC ACCUCOLOR EMBERPOXY SPECIAL EFFECTS GROUT. <https://www.tecspecialty.com/products/grouts/accucolor-epoxy-epoxy-special-effects-grout/>  
4. TILE BACKER BOARD AND ACCESSORIES:  
a. BOARD: 1/2 INCH NOMINAL THICKNESS AGGREGATED PORTLAND CEMENT PANEL, REINFORCED WITH GLASS FIBER MESH, "WONDERBOARD" BY CUSTOM BUILDING PRODUCTS (800-272-8786), "DURROCK INTERIOR" BY USG, AND GEORGIA PACIFIC "DENS-SHIELD" OR APPROVED.  
b. TAPE FOR GLASS MESH BOARD: OPEN WEAVE GLASS MESH JOINT TAPE, SELF-ADHESIVE, 2-1/2 INCHES WIDE.  
c. FASTENERS: AS RECOMMENDED BY THE BACKING BOARD MANUFACTURER; THREAD FORMING SELF-DRILLING WATER HEAD SCREWS; POLYMER COATED OR ZINC PLATED; USE "TORX" SCREWS, "TOOL-ON" OR APPROVED.  
5. CRACK ISOLATION MEMBRANE: ONE OF THE FOLLOWING:  
a. "NOBLESEAL CBS," BY THE NOBLE COMPANY; REINFORCED CPE SHEET MEMBRANE; 36" WIDTH; NOBLESDON 21 ADHESIVE.  
b. "DAL-SEAL CBS," BY DAL-TILE CORP.  
c. "EGB MEMBRANE," BY N.A.C. PRODUCTS INC.; SELF BONDING REINFORCED MODIFIED ASPHALT SHEET MEMBRANE; 36" WIDTH.  
d. "MAPLASTIC SM" BY THE MAPED CORP.  
6. METAL SCREEDS: AS MANUFACTURED BY SQUALDIER SYSTEMS, INC. (800-225-8902), OR CERAMIC TOOL COMPANY, (800/236-5230); STAINLESS STEEL TILE EDGING TRIM; SIZES AS REQUIRED FOR INSTALLATION OF TOP OF SCREED FLUSH WITH TOP OF TILE.  
F. PREPARATION:  
1. CLEAN SUBSTRATE SURFACES FREE OF GREASE, DIRT, DUST, ORGANIC IMPURITIES, AND OTHER MATERIALS WHICH WOULD IMPAIR BOND.  
G. CRACK ISOLATION MEMBRANE:  
1. INSTALL CRACK ISOLATION MEMBRANE IN ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS, UNLESS INDICATED OR SPECIFIED OTHERWISE.  
2. PROVIDE CRACK ISOLATION MEMBRANE AT FOLLOWING LOCATIONS:  
a. AT CONTROL AND CONSTRUCTION JOINTS IN CONCRETE FLOORS.  
b. AT CHANGES IN SUBSTRATE MATERIALS.  
c. ON EACH SIDE OF BUILDING FLOOR JOINT COVER ASSEMBLIES INSTALLED IN GROUVED POCKETS; EXTEND A MINIMUM OF 12 INCHES BEYOND GROUVED POCKET.  
d. SHRINKAGE CRACKS 1/16 INCH OR LARGER IN SLABS.  
3. EXTEND A MINIMUM OF 12 INCHES EACH SIDE OF CRACK OR JOINT.  
4. DO NOT APPLY CRACK ISOLATION MEMBRANE AT JOINTS WHICH WILL BE REFLECTED AS EXPANSION JOINTS IN THE TILE.  
5. SUBSTRATE EXAMINATION:  
a. SUBSTRATES ARE SUBJECT TO EXAMINATION BY THE OWNER AND THE ARCHITECT PRIOR TO INSTALLATION OF TILE OR SLAB LEVELING MATERIALS. FURNISH A MINIMUM OF 7 DAYS NOTICE.  
b. THE EXAMINATION WILL DETERMINE THE NEED FOR ADDITIONAL CRACK ISOLATION MEMBRANE AT SHRINKAGE CRACKS AND OTHER SPECIAL CONDITIONS.  
H. SLAB LEVELING:  
1. PRIOR TO INSTALLATION OF THINSET FLOOR TILE, WHERE LOCAL IRREGULARITIES IN THE SUBSTRATE SURFACE WOULD PREVENT LEVEL INSTALLATION OF THE TILE, THE SUBSTRATE SHALL BE BROUGHT TO PLANE SURFACE WITH VARIATIONS NOT TO EXCEED 1/8 INCH IN 4 FEET (CUMULATIVE) AND 1/4 INCH IN 10 FEET (NON-CUMULATIVE). SMOOTH ABRUPT CHANGES IN PLANE.  
2. USE THINSET MORTAR OR OTHER FILLER FOR SLAB LEVELING. OTHER FILLERS ARE SUBJECT TO ENDORSEMENT BY THE SETTING MORTAR MANUFACTURER. SUBMIT MANUFACTURER'S LETTER OF APPROVAL TO THE ARCHITECT, AND THE OWNER'S REPRESENTATIVE.  
3. SCREED OR FLOAT TO APPROPRIATE THICKNESS AND SPECIFIED SURFACE TOLERANCE. ALLOW TO SET PRIOR TO PROCEEDING WITH INSTALLATION. DO NOT EXCEED THE MAXIMUM THICKNESSES FOR THIN BED MORTAR AS RECOMMENDED BY THE MANUFACTURER.

I. TILE BACKER BOARD INSTALLATION:  
1. INSTALL IN ACCORDANCE WITH THE MANUFACTURER'S INSTALLATION INSTRUCTIONS. PROVIDE SHIMS AS NECESSARY TO ADJUST BACKER BOARD WITH ADJACENT SUBSTRATES.  
2. INSTALL UNITS WITH EDGES FIRMLY SUPPORTED.  
3. SCREWS ATTACH UNITS WITH 1 INCH LONG DRYWALL SCREWS SPACED 6 INCHES ON CENTER ALONG FRAMING.  
4. INSTALL FIBERGLASS REINFORCING TAPE AT JOINTS BETWEEN PANELS. COMPLETELY EMBED IN A THIN SET MORTAR BED. TROWEL MORTAR SMOOTH WITH ADJACENT SURFACES.  
J. INSTALLATION OF TILE:  
1. INTERIOR FLOOR APPLICATION - THINSET OVER CONCRETE SUBSTRATE AND CONCRETE SUBSTRATES WITH WATERPROOF MEMBRANE.  
a. TCM SYSTEM: F113 OR F122 AT WATERPROOF MEMBRANES.  
b. INSTALLATION STANDARD: ANSI A108.5.  
c. SETTING MATERIALS: THINSET MORTAR; 3/32 INCH MINIMUM THICKNESS.  
2. WALL APPLICATION - OPSUM BOARD SUBSTRATE:  
a. TCM SYSTEM: SIMILAR TO W243.  
b. INSTALLATION STANDARD: ANSI A108.5.  
c. SETTING MATERIALS: THINSET MORTAR.  
3. WALL APPLICATION - TILE BACKER BOARD:  
a. TCM SYSTEM: SIMILAR TO W244.  
b. INSTALLATION STANDARD: ANSI A108.5.  
c. SETTING MATERIALS: THINSET MORTAR.  
4. JOINT PATTERN:  
a. LAY OUT TILE PATTERN FOR COMMENCING TILE INSTALLATION.  
b. ACCURATELY LOCATE GROUT JOINTS ON LINES INDICATED; WHERE NOT INDICATED, ADJUST GROUT JOINTS WITH SPECIFIED TOLERANCES TO MINIMIZE USE OF CUT TILES AT FIELD EDGES.  
c. WHERE CUT TILES ARE NECESSARY, POSITION TILE SUCH THAT CUT TILE AT EACH EDGE OF EACH RECTILINEAR FIELD IS NOT LESS THAN HALF OF A FULL SIZE UNIT, UNLESS INDICATED OTHERWISE.  
5. TILES SHALL BE BLENDEN AS REQUIRED TO AVOID PATTERN REPEATS AND "PATCHES" OF ALUONING TILES OF DISTINCTIVE COLOR OR CHARACTER WITHIN EACH FIELD AREA. COORDINATE DISTRIBUTION OF TILES WITH THE ARCHITECT.  
6. TILES WHICH EXHIBIT DIRECTIONAL PATTERNS SHALL BE SET WITH GRAN DIRECTION AS INDICATED ON THE SHOP DRAWINGS, OR, IF NOT INDICATED, AS DIRECTED BY THE ARCHITECT.  
7. INSTALL TILES ADJACENT WITH ADJACENT FINISHES, WHERE INDICATED. PROVIDE MORTAR FILL AS NECESSARY FOR PROPER ADJUNCTION.

8. CLEAN JOINTS OF MORTAR TO MINIMUM DEPTH OF 1/4 INCH TO ALLOW SUBSEQUENT GROUT INSTALLATION.  
9. PROVIDE TEMPORARY SETTING BUTTONS AND SHIMS AS NECESSARY TO MAINTAIN A WALL TILE IN POSITION UNTIL SETTING MORTAR HAS SET.  
10. TOLERANCES:  
a. JOINT WIDTH VARIATION: PLUS OR MINUS 25% OF THE PROPOSED JOINT WIDTH.  
b. TAPER: PLUS OR MINUS 25% FROM ONE END TO THE OTHER.  
c. NO PORTION OF A TILE SURFACE SHALL VARY MORE THAN 1/16 INCH ABOVE OR BELOW AN ADJACENT TILE SURFACE.  
d. INSTALL TILE FIELDS LEVEL TO WITHIN TOLERANCE SPECIFIED FOR FINISHED SUBSTRATE.  
11. SPECIAL REQUIREMENTS FOR LARGE FORMAT TILES (8 X 8 INCH SIZE OR LARGER):  
a. WASH BACKS OF EACH TILE TO REMOVE DUST AND SOIL THAT WOULD COMPROMISE ADHESION.  
b. DAMPEN SUBSTRATE AS NECESSARY TO PREVENT EXCESSIVE SUCTION.  
c. KEY THE MORTAR INTO THE SUBSTRATE WITH THE FLAT SIDE OF THE TROWEL.  
d. COMB MORTAR OVER THE PREVIOUSLY KEYSYED SUBSTRATE IN ONE DIRECTION USING THE NOTCH SIDE OF THE TROWEL.  
e. FIRMLY PRESS EACH TILE INTO THE MORTAR. PRESS DOWN AND MOVE THE TILE BACK AND FORTH PERPENDICULARLY ACROSS THE RIDGES APPROXIMATELY 1/8 TO 1/4 INCH TO FLATTEN THE RIDGES AND FILL IN THE "VALLEYS" OF THE COMBED MORTAR.  
f. SET TILES IN ACCURATE ALIGNMENT.  
12. SCREED INSTALLATION:  
a. INSTALL SCREEDS AT TILE FIELD EDGES AT THE LOCATIONS INDICATED.  
b. ACCURATELY CUT TO LENGTH FOR FLUSH TIGHTLY BUTTED JOINTS. PROVIDE MITER CUT ANGLE JOINTS. REMOVE BURRS AT FIELD EDGES.  
c. INSTALL IN LONGEST POSSIBLE LENGTHS, EXCEPT THAT NO SCREED SECTION SHALL BE LONGER THAN 12 FEET OR SHORTER THAN 4 FEET IN LENGTH FOR CONTINUOUS RUNS GREATER THAN 16 FEET.  
d. INSTALL SCREEDS FREE FROM RIDGES AND VARIATIONS IN HEIGHT; FLUSH WITH TOP OF ADJACENT TILE SURFACES.  
e. SET SCREEDS DIRECTLY IN SETTING BED AS THE TILE INSTALLATION PROCEEDS. COMPLY WITH SCREED MANUFACTURER'S INSTRUCTIONS TO ACHIEVE MORTAR TIGHTLY COMPACTED BETWEEN SCREED AND TILE EDGE.  
f. GRIND SCREED JOINTS AS NECESSARY TO CORRECT MINOR MISALIGNMENT AND TO EASE SHARP OUTSIDE CORNERS.

K. GROUTING:  
1. COMPLY WITH PROVISIONS OF ANSI A108.10.  
2. MIX GROUTS IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS.  
3. GROUT ALL JOINTS, EXCEPT EXPANSION JOINTS, IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS. FLOAT JOINTS TO A SLIGHTLY CONCAVE PROFILE.  
4. REMOVE EXCESS GROUT FROM TILE SURFACES IN ACCORDANCE WITH THE GROUT AND TILE MANUFACTURER'S RECOMMENDATIONS. DO NOT USE EXCESS AMOUNTS OF WATER.  
5. PROTECT ADJACENT SURFACES FROM DAMAGE CAUSED BY CLEANING AGENTS. DO NOT USE CLEANERS WHICH WOULD DAMAGE TILE OR GROUT SURFACES.  
6. DO NOT GROUT JOINTS INDICATED TO RECEIVE SEALANTS, INCLUDING INSIDE RIGHT ANGLE CORNER JOINTS BETWEEN FLOORS AND WALLS OF COLUMN BASES.  
7. GROUT JOINTS PERPENDICULAR TO EXPANSION JOINTS SHALL BE FINISHED FLUSH WITH THE EDGES.  
8. CURED GROUT JOINTS SHALL BE MADE FREE OF EFFLORESCENCE, PRIOR TO SEALING.  
L. CURING: CURE INSTALLATION IN ACCORDANCE WITH THE GROUT MANUFACTURER'S RECOMMENDATIONS. PROTECT TILE AND GROUT DURING CURING OPERATIONS.  
M. PROTECTION:  
1. PROTECT TILE INSTALLATIONS FROM DAMAGE.  
2. REPLACE ALL DAMAGED TILES.  
N. CLEANING:  
1. IN ACCORDANCE WITH SECTION 015000 AND SECTION 017100.  
2. COORDINATE FINAL CLEANING WITH WORK OF SECTION 079200. DO NOT BEGIN CLEANING OPERATIONS UNTIL TILE EXPANSION JOINTS SEALANTS ARE FULLY CURED.  
3. PRIOR TO SUBSTANTIAL COMPLETION, WASH AND THOROUGHLY RINSE ALL TILE. LEAVE ALL TILE SURFACES CLEAN.

**05123 ACOUSTICAL TILE CEILING**  
A. SUBMITTALS:  
1. SUBMIT PRODUCT LITERATURE FOR EACH ACOUSTICAL CEILING TILE AND SUSPENSION SYSTEM PROPOSED.  
B. QUALITY ASSURANCE:  
1. CODES: COMPLY WITH THE REQUIREMENTS OF THE JURISDICTIONAL CODE AUTHORITIES.  
C. PRODUCTS:  
1. CEILING TILE: AS SCHEDULED ON THE DRAWINGS.  
2. SUSPENSION SYSTEM: EXPOSED T SYSTEM. ASTM C885, HEAVY DUTY CLASSIFICATION; DIRECT HUNG; EXPOSED "T" DESIGN; FACTORY BAKED ON FINISH TO MATCH ACOUSTICAL PANELS. FURNISH STABILIZER BARS, SPICES, EDGE AND WALL MOLDS, AND OTHER ITEMS AS NECESSARY TO COMPLETE SUSPENDED CEILING GRID SYSTEM.  
D. INSTALLATION:  
1. INSTALL AFTER MAJOR ABOVE-CEILING WORK IS COMPLETE.  
2. INSTALLATION IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.  
3. INSTALL GRID TO PRODUCE FINISHED CEILING TRUE TO LINES AND LEVELS INDICATED, WITHIN THE SPECIFIED TOLERANCES. CENTER SYSTEM ON ROOM AXIS ACCORDING TO REFLECTED CEILING PLANS.  
4. ANCHORAGE:  
a. PROVIDE ALL ANCHORS REQUIRED FOR THE INSTALLATION OF THE CEILING SYSTEM.  
b. HANG SYSTEM INDEPENDENT OF WALLS, COLUMNS, DUCTS, PIPES AND CONDUIT. WHERE DUCTS OR OTHER EQUIPMENT PREVENT THE REGULAR SPACING OF HANGERS, PROVIDE SECONDARY CARRYING MEMBERS FOR INDIRECT SUPPORT OF THE SUSPENSIONS SYSTEM, OR REINFORCE THE NEAREST ADJACENT HANGERS AND RELATED CARRYING CHANNELS AS REQUIRED TO SPAN THE REQUIRED DISTANCE.  
c. DO NOT FACTOR TO THE UPPER FLUTES OF METAL BEACING. DO NOT USE FASTENERS IN STEEL DECK WHICH PENETRATE MORE THAN 1 INCH.  
5. INSTALL EDGE MOLDING AT INTERSECTION OF CEILING AND VERTICAL SURFACES, USING LONGEST PRACTICAL LENGTHS. MITER CORNERS. PROVIDE EDGE MOLDS AND ANCHORS AT JUNCTIONS WITH OTHER INTERRUPTIONS; FABRICATE EDGE MOLDS TO FIT THE SURFACES ENCOUNTERED.  
6. FIT ACOUSTIC LAY-IN PANELS IN PLACE, FREE FROM DAMAGED EDGES OR OTHER DEFECTS DETRIMENTAL TO APPEARANCE AND FUNCTION. FIT BORDER UNITS NEATLY AGAINST ABUTTING SURFACES. SCRIBE AND WILL RECESSED REGULAR EDGE INTO PARALLEL BORDER UNITS TO EDGE BY WALL MOLDING.  
7. ADJUST SACS OR TWISTS WHICH DEVELOP IN THE CEILING SYSTEM AND REPLACE PARTS WHICH ARE DAMAGED OR DEFECTIVE.  
8. HOOD-DOWN CLIPS: INSTALL HOOD-DOWN CLIPS WITHIN 20 FEET OF AN EXTERIOR DOOR.  
9. TOLERANCES:  
a. VARIATION FORM FLAT AND LEVEL SURFACE: 1/8 INCH IN 10 FEET.  
b. VARIATION FROM PLUMB OF GRID MEMBERS CAUSED BY ECCENTRIC LOADS: TWO DEGREES MAXIMUM.

**05926 - LINER WOOD WALL AND SOFFIT PANELS**  
SECTION INCLUDES: WOOD SLAT WALL AND SOFFIT SYSTEM  
B. SUBMITTALS  
1. PRODUCT DATA: MANUFACTURER'S PRODUCT DATA FOR WOOD SLAT SYSTEM.  
2. SHOP DRAWINGS: INCLUDE LAYOUT, SLAT PROFILES, ALL TYPICAL AND SPECIAL DETAILS, SUSPENSION DETAILS, END CONDITIONS AND TRIM, AND RELATIONSHIP TO ADJACENT CONSTRUCTION.  
3. SAMPLES: SUBMIT APPROXIMATE 9 X 11 INCH SAMPLES OF WOOD SLAT SHOWING PROPOSED WOOD SPECIES AND FINISH. SUBMIT ADDITIONAL SAMPLES AS REQUIRED TO SHOW MAXIMUM RANGE OF COLOR AND GRAIN TO BE EXPECTED.  
4. CERTIFICATES: SUBMIT MANUFACTURER'S CERTIFICATION THAT WOOD MATERIALS MEET THE SPECIFIED FLAME SPREAD REQUIREMENTS.  
C. QUALITY ASSURANCE:  
1. INSTALLER QUALIFICATIONS: APPROVED BY THE WOOD SLAT MATERIALS MANUFACTURER.  
D. DELIVERY, STORAGE, AND HANDLING  
1. DO NOT DELIVER WOOD MATERIALS TO THE BUILDING UNTIL "NET" WORK SUCH AS OPSUM WALLBOARD WORK HAS BEEN COMPLETED.  
E. PRODUCT CONDITIONS  
1. MAINTAIN UNIFORM 50 - 70 DEGREE F. TEMPERATURE RANGE IN WORK SPACES FOR 24 HOURS PRIOR TO, DURING, AND 24 HOURS AFTER INSTALLATION.  
F. MANUFACTURER  
1. SHWOOD (SPRINGFIELD OR, 888\_767\_9990).  
G. COMPONENTS  
1. CEILING SUSPENSION COMPONENTS: FURNISH EXPOSED "T" BAR SYSTEM AS SPECIFIED IN SECTION 095123  
2. WALL ATTACHMENT COMPONENTS: MANUFACTURER'S STANDARD CLIP RAIL AND ATTACHMENT CLIPS. SYSTEM SHALL BE DESIGNED FOR SWAP REMOVAL AND REPLACEMENT OF INDIVIDUAL WOOD SLATS.  
3. WOOD SLATS:  
a. TYPE: "PANELIZED LINER WOOD GRILLE" 2114-3.  
b. VERTICAL GRAIN DOUGLAS FIR; SMOOTH TEXTURE.  
c. SHOP FINISH: NATURAL FINISH; CLEAR INTENSEMED FINISH; CLASS 1 FIRE RATING; FINISHED 4 SIDES AND EDGES.  
4. TOLERANCES:  
1) CROOK: 1/4 INCH IN 8 FEET.  
2) WARP: 1/4 INCH IN 8 FEET.  
3) TWIST: 1/8 INCH IN 8 FEET.  
4. ACOUSTIC INSULATION: MANUFACTURER'S STANDARD ACOUSTIC FABRIC BACKER.

H. FABRICATION  
1. FIELD VERIFY ALL DIMENSIONS PRIOR TO FABRICATION.  
I. EXAMINATION  
1. PRIOR TO STARTING WORK, CAREFULLY INSPECT INSTALLED WORK OF OTHER TRADES AND VERIFY THAT SUCH WORK IS COMPLETE TO THE POINT WHERE WORK OF THIS SECTION MAY PROPERLY COMMENCE. NOTIFY THE ARCHITECT IN WRITING OF CONDITIONS DETRIMENTAL TO THE PROPER AND TIMELY COMPLETION OF THE WORK.  
2. DO NOT BEGIN INSTALLATION UNTIL ALL UNSATISFACTORY CONDITIONS ARE RESOLVED. BEGINNING WORK CONSTITUTES ACCEPTANCE OF SITE CONDITIONS AND RESPONSIBILITY FOR DETECTIVE INSTALLATION CAUSED BY PRIOR OBSERVABLE CONDITIONS.  
J. SUSPENSION SYSTEM INSTALLATION  
1. INSTALL SUSPENSION SYSTEM IN ACCORDANCE WITH THE REQUIREMENTS SPECIFIED IN SECTION 095123, AND AS REQUIRED TO ACCOMMODATE WOOD SLAT CEILING SYSTEM.  
K. WOOD SLAT PANEL INSTALLATION  
1. INSTALL WOOD SLAT PANELS IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS, AND IN ACCORDANCE WITH THE LAYOUT APPROVED ON THE SHOP DRAWINGS.  
2. INSTALL LEVEL, FLUSH, PLUMB, AND IN STRAIGHT LINE COURSES WITH EVENLY SPACED JOINTS BETWEEN SLATS.  
3. NEATLY CUT AROUND AND TRIM OPENINGS.  
4. TOLERANCES:  
a. FLATNESS: FLAT WITHIN A TOLERANCE OF 1/8 INCH IN 12 FEET, WITH NO ABRUPT VARIATIONS.  
CURVATURE: NO MORE THAN 1/8 INCH OUT OF ALIGNMENT OF THE REQUIRED ARC, WITH NO ABRUPT VARIATIONS IN CURVATURE

**09500 RESILIENT FLOORING**  
A. SUMMARY:  
1. RESILIENT BASE.  
B. SUBMITTALS:  
1. SUBMIT PRODUCT LITERATURE FOR EACH PRODUCT PROPOSED, INCLUDING BASE, RESILIENT FLOORING, TRANSITION STRIPS, AND ADHESIVES.  
2. SAMPLES: SUBMIT SAMPLES OF EACH TYPE OF RESILIENT FLOORING, AND EACH TYPE OF RUBBER BASE FOR COLOR SELECTION BY THE INTERIOR DESIGNER.  
C. MATERIALS:  
1. RUBBER BASE:

a. MANUFACTURER: ONE OF THE FOLLOWING, SUBJECT TO ARCHITECT'S APPROVAL OF COLOR:  
1) ROPPE RUBBER CORP.  
2) BURKE FLOORING PRODUCTS / BURKE INDUSTRIES.  
3) AUSTRIAN RUBBER CORP.  
b. RESILIENT BASE: ASTM F1984, TYPE TS, 100 PERCENT GALVANIZED RUBBER; 1/8 INCH THICK; ROLL STOCK; COVERED AND STRAIGHT BASE AS SPECIFIED; 4 INCH HEIGHT, UNLESS OTHERWISE INDICATED ON THE DRAWINGS.  
c. ACCESSORIES:  
1) PRIMERS AND ADHESIVES: TYPES AS RECOMMENDED BY RESILIENT FLOORING AND BASE MANUFACTURERS FOR SPECIFIC APPLICATION.  
D. RUBBER BASE INSTALLATION:  
1. ADHESIVELY INSTALL RESILIENT BASE TIGHTLY TO WALL AND FLOOR SURFACES IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS.  
2. FIT JOINTS TIGHT, VERTICAL, AND IN ACCURATE ALIGNMENT. INSTALL BASE IN MAXIMUM LENGTHS, WITH MAXIMUM NUMBER OF JOINTS IN EACH RUN. NO SECTION MAY BE SHORTER THAN 48 INCHES, EXCEPT AS REQUIRED BY WALL CONDITIONS.  
3. INSTALL BASE TO WALLS, COLUMNS, AND CASEWORK THE WORK IN ALL AREAS WHERE RESILIENT BASE IS SCHEDULED.  
4. MITER OR COPE INSIDE CORNERS FOR ACCURATE FIT. SCRIBE AND FIT TO DOOR FRAMES AND OTHER OBSTRUCTIONS.  
5. OUTSIDE CORNERS:  
a. SCORE BACK OF BASE MATERIAL WITH GROOVING TOOL AND ACCURATELY ALIGN TO CORNER.  
b. FIRMLY ADHERE TO WALL AT BOTH SIDES OF CORNER, WITH NO VISIBLE GAPS AT TOP OF BASE.  
c. STRETCH TOE OF COVERD BASE FOR SMOOTH TRANSITION AROUND CORNER, WITH TOE IN UNIFORM CONTACT WITH THE FINISH FLOORING.  
6. REMOVE EXCESS ADHESIVE FROM SURFACES WITHOUT DAMAGE.

E. CLEANING  
1. REMOVE EXCESS ADHESIVE FROM FLOOR, BASE, AND WALL SURFACES WITHOUT DAMAGE.  
2. CLEAN BASE AND FLOOR IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS.

**09773 REINFORCED PLASTIC PANEL WALL COVERINGS**  
A. SUMMARY: FIBERGLASS REINFORCED POLYESTER PANEL (FRP) WALL COVERING.  
B. SUBMITTALS: PRODUCT DATA.  
C. PANEL SYSTEM COMPONENTS:  
1. PANEL MATERIAL:  
a. WRAPTE BRAND CLASS 1/4 FIRE RATED FRP BY MARLITE (DOVER, OH 330/343-6621), COLOR AS SCHEDULED IN THE FINISH LEGEND.  
b. PANEL TYPE: FIBERGLASS REINFORCED POLYESTER PANELS, WITH EMBOSSED TEXTURED FACE.  
c. THICKNESS: 3/32 INCH.  
d. SIZE: 48 INCHES X LENGTH REQUIRED FOR CONDITIONS INDICATED.  
e. FIRE RATING: MAXIMUM 25/450 FLAME SPREAD / SMOKE DEVELOPED IN ACCORDANCE WITH ASTM E84.  
2. MOLDINGS: MANUFACTURER'S STANDARD PVC CAP, CORNER, AND DIVISION MOLDS; COLOR TO MATCH PANELS. OMIT BOTTOM TRIM WHERE PANEL ABUTS FLASH COVERD BASE.  
3. PANEL AND MOLDING INSTALLATION ADHESIVE: AS RECOMMENDED BY THE FRP PANEL MANUFACTURER.  
4. SEALANT: FLEXIBLE WATERPROOF SILICONE SEALANT FOR BEDDING PANEL EDGES; WHITE COLOR.

D. CUTTING AND FITTING:  
1. CUT PANELS ACCURATELY TO SIZE WITH PROPER ALLOWANCE FOR EXPANSION AND MOLDS.  
2. SAND OR FILE ALL EDGES SMOOTH WITHOUT CHIPPING.  
3. CUT OPENINGS FOR PENETRATIONS IN ACCURATE LOCATION WITH APPROXIMATE 1/8-INCH CLEARANCE AROUND PENETRATIONS.  
E. INSTALLATION  
1. ESTABLISH CENTERLINE OF EACH DISTINCT FLAT AREA TO BE COVERED. TRIM DIVISION MOLDS TO MATCH WITH BASE MOLDS; INSTALL IN SOLID BED OF ADHESIVE, EITHER ON CENTERLINE, OR OFFSET 24 INCHES FROM CENTER, AS NECESSARY TO MAXIMIZE PANEL WIDTHS AT CORNERS. MOLDING SHALL BE INSTALLED STRAIGHT AND PLUMB.  
2. CUT TOP CAP AND DIVISION OR CORNER MOLDS TO SHAPE, WITH EDGES TRIMMED TO FIT TO ADJACENT MOLDS.  
3. APPLY SEALANT INTO INSTALLED MOLDS IN SEQUENCE WITH PANEL INSTALLATION.  
4. APPLY ADHESIVE TO BACKS OF PANELS IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS.  
5. MAINTAIN LINES AND LEVELS OF PANEL EDGES AND MOLDS.  
6. INSTALL PANELS TIGHT TO FLASH-COVERD BASE TRIM.  
7. ALLOW 1/8-INCH GAP BETWEEN TOP CAP, CORNER, OR DIVISION MOLDING POSTS, AND PANEL EDGE; ALL EDGES SHALL BE FIRMLY BEDDED TO THE MOLDS IN SEALANT.  
8. PROMPTLY REMOVE SEALANT SQUEEZE OUT WITH A DAMP CLOTH, AS WORKING PROGRESSES; REMOVE ADHESIVE WITH APPROPRIATE SOLVENT.  
9. INSTALL SEALANT BEYOND FLANGES AND AT PENETRATIONS THROUGH PANELS, WITH AND NOT SUFFICIENTLY DRY. MAKE SURE EACH JOINT IS DRY AND HARD BEFORE A FOLLOWING COAT IS APPLIED UNLESS THE MANUFACTURER'S DIRECTIONS STATE OTHERWISE.

F. CLEANING:  
1. REMOVE EXCESS ADHESIVE FROM FACE OF LAMINATE USING SOLVENT RECOMMENDED BY MANUFACTURER.  
**09900 PAINTING AND COATING**  
A. SUMMARY: SITE APPLIED PAINT COATINGS.  
B. REFERENCE STANDARDS:  
1. MASTER PAINTERS INSTITUTE (MPI): ARCHITECTURAL PAINTING SPECIFICATION MANUAL.  
2. STEEL STRUCTURES PAINTING CODE (SSPC).  
C. SUBMITTALS:  
1. MATERIALS LIST: ORGANIZE TO INDICATE PAINTING SYSTEMS TO BE USED WITH EACH SUBSTRATE. INCLUDE MANUFACTURER'S PRODUCT DATA AS REQUIRED TO VERIFY COMPLIANCE WITH THE SPECIFIED REQUIREMENTS, DO NOT INCLUDE MISS SHEETS.  
2. PAINT SAMPLES.  
3. SUBMIT SAMPLES OF EACH PAINT FINISH ON AN "X17" CARD. REFERENCE MANUFACTURER, TYPE OF PAINT, COLOR, SHEEN, SUBSTRATE, AND APPLICATION.  
4. FURNISH ADDITIONAL SAMPLES UNTIL ALL PAINT FINISHES ARE APPROVED.  
D. QUALITY ASSURANCE:  
1. APPLICATOR: COMPANY SPECIALIZING IN COMMERCIAL PAINTING AND FINISHING WITH A MINIMUM OF THREE YEARS DOCUMENTED EXPERIENCE.  
2. VISUAL STANDARDS: EACH DISTINCT AREA OF THE FINISHED WORK SHALL BE FREE OF VARIATIONS IN COLOR AND SHEEN, ORANGE PEEL, RUNS, SACS, BLISTERING, CHECKING, CRACKING, SCRATCHES, DUST, DIRT, BUGS, AND OTHER CONTAMINANTS.

E. SITE CONDITIONS:  
1. WEATHER CONDITIONS:  
a. DO NOT EXTERIOR WORK ON UNPROTECTED SURFACES WHEN RAINING, OR OTHER MOISTURE IS PRESENT OR EXPECTED, OR BEFORE APPLIED PAINTS CAN DRY OR ATAIN PROPER CURE.  
b. ALLOW WETTED SURFACES TO DRY AND ATAIN TEMPERATURES AND CONDITION SPECIFIED HEREINAFTER BEFORE PROCEEDING WITH PREVIOUSLY STARTED WORK.  
2. TEMPERATURE:  
a. DO NOT PAINTING WORK WHEN SURFACE AND AIR TEMPERATURES ARE BELOW 40 DEGREES F OR BELOW THOSE TEMPERATURES RECOMMENDED BY THE MANUFACTURER FOR THE MATERIAL TYPE USED.  
b. MAXIMUM TEMPERATURES FOR LATEX FINISHES: 45 DEGREES F FOR INTERIOR WORK AND 50 DEGREES F, FOR EXTERIOR WORK, UNLESS APPROVED OTHERWISE.  
3. LIGHTING: MAINTAIN A LIGHTING LEVEL OF MINIMUM 50 FOOT-CANDELES ON THE SURFACES TO BE PAINTED OR FINISHED.  
4. VENTILATION: PROVIDE ADEQUATE CONTINUOUS VENTILATION.  
F. MAINTENANCE:  
1. FURNISH OVERAGE OF PAINT MATERIALS EQUAL TO 10 PERCENT MINIMUM OF QUANTITY OF EACH PAINT AND TRANSPARENT FINISH SYSTEM COMPONENT, COLOR AND SHEEN REQUIRED FOR THE WORK, BUT FURNISH NOT MORE THAN FIVE FULL ONE GALLON CANS, NOR LESS THAN TWO FULL ONE QUART CANS, OF EACH TYPE. OVERRANS IN EXCESS OF FIVE GALLONS MAY BE FURNISHED TO THE TENANT AT THE CONTRACTOR'S OPTION. OVERAGE SHALL BE TAKEN FROM THE BATCH MIX FURNISHED FOR THE WORK. OVERAGE SHALL BE FURNISHED IN COMPLETELY FILLED, PROPERLY LABELED, SEALED CANS.

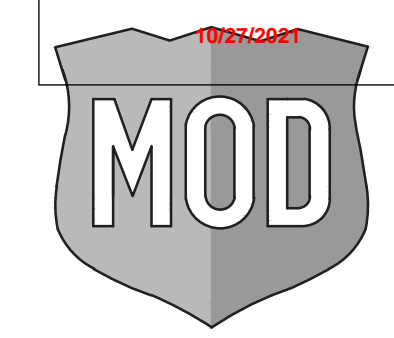
G. MATERIALS:  
1. GENERAL REQUIREMENTS: PAINTS NOT SPECIFICALLY LISTED SHALL BE "FIRST QUALITY" COMMERCIAL PRODUCTS FROM ONE OF THE FOLLOWING:  
a. BENJAMIN MOORE PAINT COMPANY. (AVAILABLE NATIONALLY).  
b. PITTSBURGH PAINTS. (AVAILABLE NATIONALLY).  
c. PRATT & LAMBERT. (AVAILABLE NATIONALLY).  
d. THE SHERWIN-WILLIAMS COMPANY. (AVAILABLE NATIONALLY).  
e. ICI PAINTS NORTH AMERICA. (AVAILABLE NATIONALLY).  
2. GALVANIZED FERROUS METAL - EPOXY/POLYURETHANE SYSTEM: ONE OF THE FOLLOWING:  
a. MANUFACTURER: Tnemec COMPANY INC. (KANSAS CITY, MO, 816-483-3400).  
1) EPOXY PRIMER: "HI-BUILD EPOXYLINE II" SERIES M69.  
2) POLYURETHANE FINISH COATS: SERIES 1075 "INDURA-SHIELD II", SATIN SHEEN.  
b. MANUFACTURER: CARBOLINE COMPANY (ST. LOUIS, MO, 314-644-1000; 800-848-4645).  
1) EPOXY PRIMER: "CARBOLINE 888".  
2) POLYURETHANE FINISH COATS: CARBOLINE 133 HB; SEMI-GLOSS OR SATIN SHEEN.  
c. MANUFACTURER: AMERON PROTECTIVE COATINGS (BREA, CA, 714-529-1951).  
1) EPOXY PRIMER: "AMEROCAT 385".  
2) POLYURETHANE FINISH COATS: "AMEROCAT 455SA", SEMI-GLOSS OR SATIN SHEEN.  
d. MANUFACTURER: ICI DEVCO.  
1) EPOXY PRIMER: "DEVBRN 224HS," "BAR-RUST 231," OR "BAR-RUST 233H."  
2) POLYURETHANE FINISH COATS: "DEVTHANE 378", SEMI-GLOSS OR SATIN SHEEN.  
3. INTERIOR TRIM SYSTEMS - METAL SUBSTRATE: ONE OF THE FOLLOWING:  
a. MANUFACTURER: ICI DEVCO.  
1) METAL PRIMER: "MEROLAC" DP 8502 HB, DTM WATERBORNE PRIMER.  
2) FINISH: DR3349 "WONDERPURE SG".  
b. MANUFACTURER: ICI DULUX.  
1) METAL PRIMER: "DEVFLX" 4202 DTM WATERBORNE PRIMER.  
2) FINISH: LM9200 "LIFEMASTER 2000" S.G.  
c. MANUFACTURER: SHERWIN-WILLIAMS.  
1) METAL PRIMER: "PRO INDUSTRIAL PRO-CRYL 866" UNIVERSAL ACRYLIC PRIMER  
2) 2.5 - 5.0 MILS DFT 138 G/L VOC  
3) FINISH: PRO CLASSIC WATERBORNE SEMI-GLOSS 1.4 MILS DFT 157 G/L VOC  
d. METAL PRIMER: (DTM WATERBORNE), SUPER SPEC HP D.T.M. ACRYLIC SEMI-GLOSS ENAMEL (P99)  
5) FINISH (SEMI-GLOSS) SUPER SPEC HP D.T.M. ACRYLIC SEMI-GLOSS ENAMEL (P99)  
d. MANUFACTURER: AMERON INTERNATIONAL.  
1) METAL PRIMER: "AMEROCAT 148," WATERBORNE ACRYLIC PRIMER.  
2) FINISH: "AMEROCAT 220," WATERBORNE ACRYLIC TOPOCAT; SEMI-GLOSS.  
4. ACRYLIC WALL SIZE: ONE OF THE FOLLOWING:  
a. ICI DEVCO "WONDERPRIME" DR51701 VAPOR BARRIER PRIMER/SEALER.  
b. ICI DULUX "ULTRA-HIDE" 1060 VAPOR BARRIER PRIMER/SEALER.  
c. SHERWIN-WILLIAMS "RAMBOY" PRIMER D VOC" B119900.

d. BENJAMIN MOORE PAINT COMPANY "MOORE'S WALL-GRP 203".  
e. PARKER PAINT MFG. CO., INC. "PREGI GARD" INTERIOR LATEX VAPOR BARRIER.  
f. ZINSSER CO, INC. (SOMERSET NJ, (732) 469-8100) "SHELLE UNIVERSAL FIRE-WALL COVERING PRIMER", ACRYLIC PRIMER/SEALER.  
5. CEMENTITIOUS SHEATHING PANELS:  
a. MANUFACTURER: SHERWIN WILLIAMS.  
b. "PRO INDUSTRIAL WATERBASED ALKO URETHANE ENAMEL".  
6. INTERIOR WATERBORNE EPOXY SYSTEM AT OPSUM BOARD: ONE OF THE FOLLOWING.  
a. MANUFACTURER: TNEMEC COMPANY, INC.  
1) GYPSUM BOARD PRIMER: "SERIES "151 ELASTO-GRP"  
2) METAL PRIMER: "SERIES 115 UNIBOND MP"  
3) FINISH COAT: "SERIES 113 TNEMEC-UF0CAT".  
b. MANUFACTURER: ICI DULUX  
1) GYPSUM BOARD PRIMER: "ULTRA-HIDE AQUA/CRYL; CRIPPER STAIN KILLER PRIMER-SEALER 3210-1200." 2) METAL PRIMER: "TRU-GLAZE-WB 4030 WATERBORNE EPOXY PRIMER"  
3) FINISH COAT: "TRU-GLAZE 4406 WATERBORNE ACRYLIC EPOXY SEMI-GLOSS." c. MANUFACTURER: SHERWIN-WILLIAMS  
1) GYPSUM BOARD PRIMER: "PRORAM 200 ZERO VOC PRIMER"  
2) METAL PRIMER: "PROCRYL PRIMER"  
3) FINISH COAT: "PRO INDUSTRIAL WB CATALYZED EPOXY"  
7. INTERIOR WATERBORNE URETHANE FINISH SYSTEMS AT STEEL COLUMNS: ONE OF THE FOLLOWING.  
a. MANUFACTURER: TNEMEC COMPANY, INC.  
1) METAL PRIMER: "SERIES 27WS TYPHOY"  
2) FINISH COATS: "SERIES 109S ENDURA SHIELD".  
b. MANUFACTURER: SHERWIN-WILLIAMS  
1) METAL PRIMER: "PROCRYL PRIMER"  
2) FINISH COAT: "PRO INDUSTRIAL WATERBASED ALKO URETHANE ENAMEL".  
H. SURFACE PREPARATION:  
1. PREPARE SURFACES BY REMOVING ALL DIRT, DUST, GREASE, OIL, MOISTURE, AND OTHER CONTAMINANTS WHICH WILL IMPAIR THE PROPER ADHESION OF THE FINISH.  
2. FERROUS METAL SHOP PRIMER UNDER OTHER SECTIONS. CLEAN PREVIOUSLY PRIMED SURFACES WITH NON-PETROLEUM BASED SOLVENT TO REMOVE OIL AND GREASE. REMOVE LOOSE RUST, BLISTERED AND PEELING PAINT TO BARE METAL BY SCRAPING, SANDING, AND WIRE BRUSHING IN ACCORDANCE WITH SSPC-SP2 AND SSPC-SP3. IMMEDIATELY APPLY TOUCH UP PRIME DAMAGED OR ABRASD SURFACES. LIGHTLY SAND ALL SHOP PRIME PAINTED SURFACES TO RECEIVE PAINT FINISH.  
3. GALVANIZED FERROUS METAL: CLEAN WITH NON-PETROLEUM BASED IN ACCORDANCE WITH SSPC-SP3; ABRASE SURFACE WITH 3M "SCOTCHBRITE HEAVY DUTY" (BROWN PAD) AS NECESSARY TO ACHIEVE SUFFICIENT PROFILE FOR PAINT ADHESION.  
4. UNPAINTED FERROUS METAL:  
a. SOLVENT CLEAN IN ACCORDANCE WITH SSPC SP-1.  
b. COMMERCIAL BLAST PER SSPC SP6.  
5. WOOD - OPAQUE PAINT FINISH:  
a. SCOT COAT KNOTS, PITCH STREAKS, AND SAPPY SECTIONS WITH SEALER.  
b. FILL ALL NAIL HOLES AND CRACKS. SAND FILLER SMOOTH AND LEVEL WITH WOOD SURFACE.  
6. WOOD - TRANSPARENT FINISH: FILL ALL EXPOSED FINISH NAIL HOLES AND CRACKS WITH MATCHING COLOR FILLER AFTER PRIME COAT IS APPLIED. SAND FILLER SMOOTH AND LEVEL WITH ADJACENT SURFACES.  
7. OPSUM WALL BOARD: REMOVE ALL LIGHT DUST AND DIRT.  
8. CEMENTITIOUS SHEATHING PANELS: REMOVE ALL CONTAMINANTS BY WASHING WITH LIGHT DETERGENT SOLUTION. DO NOT SAND.  
9. EXISTING FINISHED SURFACES TO BE REPAINTED:  
a. REMOVE LOOSE, BLISTERED, SCALED, OR CRAZED FINISHES TO BARE SUBSTRATE; FEATHER NEW WORK INTO EXISTING WORK. PREPARE SURFACES TO THE NEAREST BREAK LINE IF NECESSARY TO BLEND NEW FINISHES WITH OLD FINISHES.  
b. WASH AND RINSE SURFACES WITH TRISODIUM PHOSPHATE AND WATER OR OTHER SOLUTION REQUIRED TO REMOVE REMAINING FUM, WAX, OIL, GREASE, SMOKE OR FOREIGN MATTER WHICH WILL IMPAIR BOND, OR CAUSE BLEED THROUGH OF NEWLY APPLIED FINISHES.  
c. LIGHTLY SAND, OR APPLY A LIQUID DEGLOSSER ON EXISTING SEMI-GLOSS AND HIGH-GLOSS FINISHES BEFORE RETRINISHING.

I. SPECIAL APPLICATION REQUIREMENTS:  
10. UNLESS SPECIFIED OR INDICATED OTHERWISE, FOLLOW PAINT MANUFACTURER'S LABEL DIRECTIONS FOR GENERAL APPLICATION PROCEDURES AND COVERAGE RATES.  
11. DO NOT APPLY FINISHES ON SURFACES THAT ARE NOT SUFFICIENTLY DRY. MAKE SURE EACH JOINT IS DRY AND HARD BEFORE A FOLLOWING COAT IS APPLIED UNLESS THE MANUFACTURER'S DIRECTIONS STATE OTHERWISE.  
12. TRU FILLER TO MATCH STAIN WHEN CLEAR FINISHES ARE SPECIFIED; WORK FILLER WELL INTO GRAN AND, BEFORE IT HAS SET, WORKING PERPENDICULARLY TO THE GRAN, Wipe THE EXCESS FROM THE SURFACE.  
13. OPAQUE FINISHES:  
a. APPLY NUMBER OF COATS SCHEDULED FOR EACH APPLICATION, EXCEPT THAT ADDITIONAL FINISH COATS SHALL BE APPLIED AS NECESSARY FOR COMPLETE HIDDING OF SUBSTRATE COLORS.  
b. APPLY PRIMER COATS UN-TRIMED. WHERE MORE THAN ONE COAT OF PAINT IS REQUIRED, TRIM EACH SUCCEEDING COAT UP TO THE FINAL COAT SIMILAR IN TRIM, BUT SLIGHTLY LIGHTER IN VALUE (SHADE).  
c. SAND LIGHTLY BETWEEN COATS IF NECESSARY TO ACHIEVE REQUIRED FINISH. SAND BETWEEN ALL COATS APPLIED TO WOOD SUBSTRATES.  
5. ROLLERS FOR APPLICATION AND BACKROLLING OF LATEX PAINTS SHALL HAVE A NAP OF 3/8 INCH OR LESS.  
6. WHERE ROLLER TEXTURE IS SCHEDULED FOR APPLICATION TO OPSUM BOARD SURFACES, FINISH COATS MAY BE ROLLER-APPLIED, OR SPRAY APPLIED AND BACKROLLED AT CONTRACTOR'S OPTION.  
7. FACTORY PRIMED SURFACES: APPLY SCHEDULED FINISH SYSTEM, LESS PRIMER COAT, EXCEPT AS NECESSARY TO FOR PATCHING DAMAGE TO FACTORY PRIME COATING.

J. EXTERIOR SYSTEMS:  
1. GALVANIZED METAL - EPOXY/URETHANE SYSTEM:  
a. SYSTEM: RETOUCH WELDS AND DAMAGED GALVANIZED COATINGS WITH ZINC PRIMER; APPLY ONE COAT EPOXY PRIMER, AND TWO URETHANE FINISH COATS IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS. VERIFY COMPATIBILITY WITH SHOP APPLIED PRIMER. APPLY EPOXY PRIMER OVER ALL SHOP APPLIED PRIMERS, UNLESS THE SPECIFIED PRIMER WAS SHOP APPLIED. BRUSH, SPRAY, OR ROLLER APPLY.  
b. SHEEN: SATIN, UNLESS INDICATED OTHERWISE.  
c. APPLICATION: EXTERIOR GALVANIZED METAL SURFACES.  
K. INTERIOR SYSTEMS:  
1. GYPSUM BOARD - LATEX SYSTEM:  
a. SYSTEM: THREE COATS - FIRST COAT LATEX PRIMER SEALER (UNTINTED), SECOND AND THIRD COAT LATEX PAINT.  
b. SHEEN: ROLLER TEXTURE, SATIN SHEEN, EXCEPT PROVIDE FLAT SHEEN AT LIGHT COVES, CEILING, SKYLIGHT AREAS, CLOSETTORY AREAS, INTERIOR FASCIA, AND OTHER LIGHT SENSITIVE SURFACES. VERIFY LOCATIONS OF EACH SHEEN WITH ARCHITECT BEFORE PROCEEDING WITH WORK.

2. INTERIOR WATERBORNE EPOXY SYSTEM:  
a. SYSTEM: THREE COATS - FIRST COAT LATEX PRIMER SEALER (UNTINTED), SECOND AND THIRD COAT LATEX PAINT.  
b. SHEEN: ROLLER TEXTURE, SATIN SHEEN, EXCEPT PROVIDE FLAT SHEEN AT LIGHT COVES, CEILING, SKYLIGHT AREAS, CLOSETTORY AREAS



2035 158th CT NE  
Suite 200  
Bellevue, WA 98008

ARCHITECT OF RECORD



ARCH COA # 2015008774  
ENG COA # 2005026904

ARCHITECTURE  
ENGINEERING  
PERMITTING

220 E. CENTRAL PKWY. STE 4000  
ALTA MONTONE SPRINGS, FL 32701  
407.645.5024  
PROJECT NO. 2021.0524

CONSULTANT

SEALED



Digitally signed by Stacy T Henson Date: 2021.10.21 16:47:11 -0400

MOD LEE'S SUMMIT  
460 NW CHIPMAN RD  
LEE'S SUMMIT, MO 64086

ISSUED / REVISED DATE  
BUILDING COMMENTS 10.18.21  
DESIGN UPDATES 10.18.21

PERMIT SET 09.20.21

SP-911  
MECHANICAL SPECIFICATIONS

CHECKED: DAK DRAWN: QN

quynh - 10/20/2021 12:10:42 PM

HVAC SPECIFICATION  
23 05 01.00 - COMMON REQUIREMENTS FOR HVAC  
GENERAL  
GENERAL PROVISIONS OF THE CONTRACT INCLUDING GENERAL AND SUPPLEMENTARY CONDITIONS AND GENERAL REQUIREMENTS APPLY TO WORK OF THIS SECTION.  
SCOPE

THE BASE BID INCLUDES FURNISHING ALL MATERIALS, LABOR, TOOLS, AND EQUIPMENT AND THE PERFORMANCE OF ALL WORK REQUIRED TO INSTALL A COMPLETE HEATING AND AIR CONDITIONING SYSTEM AS OUTLINED HEREIN.  
GUARANTEE  
THE CONTRACTOR SHALL PROVIDE A GUARANTEE IN WRITTEN FORM STATING THAT ALL WORK UNDER THIS SECTION SHALL BE FREE OF DEFECTIVE WORK, MATERIALS, OR PARTS FOR A PERIOD OF ONE YEAR FROM THE DATE OF OWNER'S FINAL ACCEPTANCE AND SHALL REPAIR, REVISE OR REPLACE AT NO COST TO THE OWNER ANY SUCH DEFECTS OCCURRING WITHIN THE GUARANTEE PERIOD.  
CONTRACTOR SHALL ALSO STATE IN WRITTEN FORM THAT ANY ITEMS OR OCCURRENCES ARISING DURING THE GUARANTEE PERIOD WILL BE ATTENDED TO IN A TIMELY MANNER AND WILL, IN NO CASE EXCEED FOUR (4) WORKING DAYS FROM DATE OF NOTIFICATION BY OWNER.

PROVIDE A COMPLETE INSTALLATION IN CONFORMANCE WITH THE FOLLOWING STANDARDS.  
ASHRAE: AMERICAN SOCIETY OF HEATING, REFRIGERATING AND AIR CONDITIONING ENGINEERS  
NFPA: NATIONAL FIRE PROTECTION ASSOCIATION  
SMACNA: SHEET METAL AND AIR CONDITIONING CONTRACTORS NATIONAL ASSOCIATION, STATEWIDE BUILDING CODE  
IMC: INTERNATIONAL MECHANICAL CODE  
PERMITS, FEES, INSPECTIONS, LAWS AND REGULATIONS  
PERMITS AND FEES OF EVERY NATURE REQUIRED IN CONNECTION WITH THIS WORK SHALL BE OBTAINED AND PAID FOR BY THIS CONTRACTOR WHO SHALL ALSO PAY FOR ALL THE INSTALLATION FEES AND SIMILAR CHARGES, LAWS AND REGULATIONS, WHICH BEAR UPON OR AFFECT THE VARIOUS BRANCHES OF THIS WORK SHALL BE COMPLIED WITH BY THIS CONTRACTOR AND ARE HEREBY MADE A PART OF THIS CONTRACT. ALL WORK, WHICH SUCH LAWS REQUIRE TO BE INSPECTED, SHALL BE SUBMITTED TO THE PROPER PUBLIC OFFICIAL FOR INSPECTION AND A CERTIFICATE OF FINAL APPROVAL MUST BE FURNISHED.  
WORK IN EXISTING SPACES  
GENERAL: CARE SHALL BE TAKEN WHEN WORKING IN EXISTING SPACES SO AS NOT TO DAMAGE EXISTING WALLS AND CEILINGS WHERE WORK IS BEING PERFORMED.  
CEILINGS: WHERE WORK IS BEING PERFORMED ABOVE CEILINGS, AND THE ARCHITECTURAL DRAWINGS DO NOT INDICATE CEILING MODIFICATIONS BY THE GENERAL CONTRACTOR, IT SHALL BE THE RESPONSIBILITY OF THIS CONTRACTOR TO REMOVE AND REPLACE EXISTING CEILINGS WHERE WORK IS BEING PERFORMED. IN THESE INSTANCES, ALL REPAIR AND INSTALLATION OF NEW GRID, CEILING PANELS, ETC SHALL BE THE RESPONSIBILITY OF THIS CONTRACTOR. MATCH EXISTING FINISHES, WALLS & FLOORS: IT SHALL BE THE RESPONSIBILITY OF THIS CONTRACTOR TO PATCH EXISTING WALLS AND FLOORS AND MATCH EXISTING FINISHES WHERE WORK IS BEING REMOVED OR INSTALLED AND PATCHING IS BEING PERFORMED, UNLESS NOTED OTHERWISE ON THE ARCHITECTURAL DRAWINGS, TESTS AND ADJUSTMENTS

NO DUCTS, PIPING, FIXTURES OR EQUIPMENT SHALL BE CONCEALED OR COVERED UNTIL THEY HAVE BEEN INSPECTED AND APPROVED BY THE ARCHITECT AND THE INSPECTOR WHO SHALL BE NOTIFIED BY THE CONTRACTOR WHEN THE WORK IS READY FOR INSPECTION.  
WORK SHALL BE COMPLETELY INSTALLED, TESTED AND LEAK TIGHT BEFORE INSPECTION IS REQUIRED. ALL TESTS SHALL BE REFERRED TO THE SATISFACTION OF THOSE MAKING THE INSPECTION.  
23 05 03.00 - SUBMITTALS FOR HVAC  
GENERAL

WHERE SUBMITTALS ARE REQUIRED BY THE CONTRACT DOCUMENTS, THEY SHALL BE PREPARED AND SUPPLIED IN ACCORDANCE WITH THE CONTRACT DOCUMENTS. IN ADDITION TO DIVISION 01, THE CONTRACTOR IS ADVISED TO REVIEW AND COMPLY WITH THE REQUIREMENTS ARTICULATED WITHIN EACH DIVISION AND WITHIN EACH SECTION OF THAT DIVISION.  
SOME DIVISIONS MAY INCLUDE A DIVISION-SPECIFIC SUBMITTAL REQUIREMENTS FOR ... SECTION, WHERE THIS SECTION EXISTS, IT ARTICULATES ADDITIONAL REQUIREMENTS FOR SUBMITTALS THAT APPLY TO THE WORK OF THAT DIVISION.  
THE FOLLOWING REQUIREMENTS HELP TO IDENTIFY, TRACK AND KEEP THE PROJECT ORGANIZED FOR THE REVIEW AND INSPECTION PHASES. ALL REPAIR AND INSTALLATION OF NEW GRID, CEILING PANELS, ETC SHALL BE THE RESPONSIBILITY OF THIS CONTRACTOR AND ARE HEREBY MADE AN APPROPRIATE TECHNICAL REVIEW. SUBMITTALS THAT DO NOT CONFORM TO THE ADMINISTRATIVE REQUIREMENTS ARE REJECTED AND RETURNED, WITHOUT TECHNICAL REVIEW.  
REQUIREMENTS  
SUPPLY SUBMITTALS FOR EACH SECTION: SUBMITTALS SHALL BE SUPPLIED ON A SECTION-BY-SECTION AND TYPE-BY-TYPE BASIS. FOR EXAMPLE, INDEPENDENT PRODUCT DATA SUBMITTALS SHALL BE FURNISHED FOR EACH SECTION THAT REQUIRES PRODUCT DATA SUBMITTALS. INDEPENDENT SHOP DRAWING SUBMITTALS SHALL BE FURNISHED FOR EACH SECTION THAT REQUIRES SHOP DRAWINGS.  
REFER TO THE SPECIFICATIONS FOR IDENTIFICATION OF WHICH SUBMITTALS ARE REQUIRED FOR THE PROJECT. SEPARATE PDF FILE PACKAGES SHALL BE SUPPLIED FOR EACH SECTION, FOR EACH SECTION TYPE. ELECTRONIC SUBMITTALS ARE REQUIRED. EACH PDF SHALL REPRESENT A SINGLE STANDALONE SUBMITTAL.  
SEPARATELY BOUND AND IDENTIFIED SUBMITTALS SHALL BE PROVIDED WHERE HARD COPIES ARE REQUIRED.  
INCLUDE A TRANSMITTAL: TRANSMITTALS SHALL ENUMERATE EACH SUBMITTAL FOR EACH SECTION OF EACH TYPE AND ITERATION.  
INCLUDE COVER SHEET / TITLE PAGE: THE COVER SHEET SHALL INCLUDE THE INFORMATION IDENTIFIED IN THE CONTRACT DOCUMENTS. IT SHALL BE INCLUDED AS THE FIRST PAGE OF EACH ELECTRONIC AND/OR HARD COPY DOCUMENT-BASED SUBMITTAL. AN EDITABLE AND PRINTABLE PDF FORM CREATED WITH EDITABLE FIELDS AND SPECIFICATION COMPLIANT APPEARANCE IS AVAILABLE FROM KLIH UPON REQUEST. IT IS ALSO DOWNLOADABLE FROM THE KLIH WEBSITE AT WWW.KLIHENGRS.COM.  
INCLUDE AN INDEX: THE INDEX SHALL ENUMERATE THE CONTENTS OF THE SUBMITTALS.  
INCLUDE CHECKLISTS: WHERE CHECKLISTS ARE INCLUDED WITH THE SPECIFICATIONS, COMPLETE AND INCLUDE THEM WITHIN THE APPROPRIATE SUBMITTAL. SUPPLY COMPLETE SUBMITTALS: COMPLETE SUBMITTALS OF EACH TYPE ARE REQUIRED. PARTIAL SUBMITTALS WILL BE REJECTED. WHERE A SECTION REQUIRES A PRODUCT DATA SUBMITTAL, ALL PRODUCT DATA FOR THAT SECTION SHALL BE SUPPLIED TOGETHER, AT ONE TIME, AS ONE COMPLETE SUBMITTAL. DO NOT SEND HALF THE PRODUCT DATA AS ONE SUBMITTAL AND THE OTHER HALF AS A SEPARATE ONE. WHEN RESUBMITTAL IS REQUIRED (E.G. REVISE AND RESUBMIT) THE REVISED SUBMITTAL SHALL BE MORE COMPLETE, MORE ACCURATE AND MORE CONTRACT-COMPLIANT THAN ITS REJECTED PREDECESSOR. THE SUBMITTAL NUMBER (FOR EACH SECTION AND TYPE) SHALL INCREMENT FOR EACH SUBSEQUENT SUBMITTAL. (00 - FIRST SUBMISSION, 01 - FIRST RESUBMISSION, 02 - SECOND RESUBMISSION, ETC.). RESUBMITTALS SHALL INCLUDE A COPY OF THE REVIEWER'S COMMENTS SUPPLIED WITH THE PRIOR SUBMITTAL. REJECTION AND SHALL BE AMENDED WITH A DESCRIPTION OF THE SPECIFIC ACTION TAKEN TO COMPLY WITH THE REVIEWER'S COMMENTS. THE ABSENCE OF THIS ON RESUBMITTAL IS CAUSE FOR REJECTION. NAME ELECTRONIC FILES TO MATCH THE SUBMITTAL ID AND COVER SHEET: THE ELECTRONIC FILE NAME OF SUBMITTALS MUST MATCH THE SUBMITTAL ID INCLUDED ON THE SUBMITTALS COVER PAGE. FOR EXAMPLE: THE ORIGINAL/FIRST PRODUCT DATA SUBMITTAL FOR SECTION 234116.00.WOULD BE LABELED AS "234116.00-PD-00". THE FIRST RESUBMITTAL OF SAME SHALL BE LABELED "234116.00-PD-01". THE ORIGINAL/FIRST SHOP DRAWINGS SUBMITTAL FILE FOR THE SAME SECTION WOULD BE LABELED "234116.00-SD-00". THE FIRST RESUBMITTAL OF SAME SHALL BE LABELED "234116.00-SD-01".

USE OF ELBOW OR SHORT DOWN TO BLOW (NONE PAGE): HTTP://WWW.KLIHENGRS.COM.  
23 05 29.00 - HANGERS AND SUPPORTS FOR HVAC PIPING AND EQUIPMENT  
GENERAL  
SUPPORT ALL PIPING, DUCTWORK AND EQUIPMENT BY HANGERS OR BRACKETS. FURNISH STRUCTURAL STEEL MEMBERS WHERE REQUIRED TO SUPPORT PIPING AND EQUIPMENT. NO PORTION OF PIPING OR VALVES SHALL BE SUPPORTED BY EQUIPMENT.  
DUCTWORK - SUPPORT BY MEANS OF HANGERS AS FOLLOWS:  
DUCT WIDTH HANGER SIZE AND TYPE MAX. SPACING  
30 OR LESS (#16 GAGE) 8  
A PAIR OF HANGERS SHALL BE LOCATED AT EVERY TRANSVERSE JOINT AND ELSEWHERE ACCORDING TO THE FOLLOWING TABLE:  
23 05 03.00 - TESTING, ADJUSTING AND BALANCING FOR HVAC  
GENERAL  
TEST, ADJUST, AND BALANCE THE FOLLOWING MECHANICAL SYSTEMS:  
SUPPLY AIR SYSTEMS  
RETURN AIR SYSTEMS  
EXHAUST AIR SYSTEMS.

VERIFY TEMPERATURE CONTROL SYSTEM OPERATION.  
TEST SYSTEMS FOR PROPER SOUND AND VIBRATION LEVELS.  
QUALITY ASSURANCE  
CODES AND STANDARDS:  
AABC: "NATIONAL STANDARDS FOR TOTAL SYSTEM BALANCE".  
ASHRAE: ASHRAE HANDBOOK, 2011 APPLICATIONS, CHAPTER 38, TESTING, ADJUSTING, AND BALANCING. SUBMITTALS  
CERTIFIED REPORTS: SUBMIT TESTING, ADJUSTING, AND BALANCING REPORTS BEARING THE SEAL AND SIGNATURE OF THE TEST AND BALANCE ENGINEER. THE REPORTS SHALL BE CERTIFIED PROOF THAT THE SYSTEMS HAVE BEEN TESTED, ADJUSTED, AND BALANCED IN ACCORDANCE WITH THE REFERENCED STANDARDS. ARE AN ACCURATE REPRESENTATION OF HOW THE SYSTEMS HAVE BEEN INSTALLED. ARE A TRUE REPRESENTATION OF HOW THE SYSTEMS ARE OPERATING AT THE COMPLETION OF THE TESTING, ADJUSTING, AND BALANCING PROCEDURES; AND ARE AN ACCURATE RECORD OF ALL FINAL QUANTITIES MEASURED, TO ESTABLISH NORMAL OPERATING VALUES OF THE SYSTEMS. FOLLOW THE PROCEDURES AND FORMAT SPECIFIED BELOW.  
FINAL REPORT: UPON VERIFICATION AND APPROVAL PREPARE FINAL REPORTS, TYPE WRITTEN, AND ORGANIZED AND FORMATTED AS SPECIFIED BELOW. SUBMIT 2 COMPLETE SETS OF FINAL REPORT TO THE OWNER.  
REPORT FORMAT: REPORT FORMS SHALL BE THOSE STANDARD FORMS PREPARED BY THE REFERENCED STANDARD FOR EACH RESPECTIVE ITEM AND SYSTEM TO BE TESTED, ADJUSTED, AND BALANCED.  
QUALIFICATIONS  
THE CONTRACTOR SHALL PROCURE THE SERVICES OF AN INDEPENDENT BALANCE AND TESTING AGENCY, APPROVED BY THE ENGINEER, AND A MEMBER OF ASSOCIATED AIR BALANCE COUNCIL (AABC) OR NEBB, WHICH SPECIALIZES IN THE BALANCING AND TESTING OF HEATING, VENTILATING AND AIR CONDITIONING SYSTEMS, TO BALANCE, ADJUST AND TEST ALL AIR AND WATER SYSTEMS AND EQUIPMENT AS HEREIN SPECIFIED. ALL WORK BY THIS AGENCY SHALL BE DONE UNDER DIRECT SUPERVISION OF A QUALIFIED AND TRAINED OPERATOR EMPLOYED BY THIS AGENCY. ALL INSTRUMENTS USED BY THIS AGENCY SHALL BE ACCURATELY CALIBRATED AND MAINTAINED IN GOOD WORKING ORDER.  
SEQUENCING AND SCHEDULING  
TEST, ADJUST, AND BALANCE THE AIR SYSTEMS BEFORE HYDRONIC, STEAM, AND REFRIGERANT SYSTEMS.  
TEST, ADJUST AND BALANCE AIR CONDITIONING SYSTEMS DURING SUMMER SEASON AND HEATING SYSTEMS DURING WINTER SEASON, INCLUDING AT LEAST A PERIOD OF OPERATION AT OUTSIDE CONDITIONS WITHIN 5 DEG F WET BULB TEMPERATURE OF MAXIMUM SUMMER DESIGN CONDITION, AND WITHIN 10 DEG F DRY BULB TEMPERATURE OF MINIMUM WINTER DESIGN CONDITION. TAKE FINAL TEMPERATURE READINGS DURING SEASONAL OPERATION.

CHECK ALL FILTERS FOR CLEANLINESS. PROVIDE NEW VAPOR BARRIER. CHECK DAMPERS (VOLUME AND FIRE) FOR CORRECT AND LOCKED POSITION, AND TEMPERATURE CONTROL, FOR COMPLETENESS OF INSTALLATION BEFORE STARTING FANS. PLACE OUTLET DAMPERS IN FULL OPEN POSITION. LUBRICATE ALL MOTORS AND BEARINGS. CHECK FAN BELT TENSION, CHECK FAN ROTATION. AIR BALANCE AND TESTING SHALL NOT BEGIN UNTIL THE SYSTEM HAS BEEN COMPLETED AND IS IN FULL WORKING ORDER. THE CONTRACTOR SHALL PUT ALL HEATING, VENTILATING AND AIR CONDITIONING SYSTEMS AND EQUIPMENT INTO FULL OPERATION AND SHALL CONTINUE THE OPERATION OF SAME DURING EACH WORKING DAY OF TESTING AND BALANCING. THE CONTRACTOR SHALL SUBMIT WITHIN 30 DAYS AFTER RECEIPT OF CONTRACT, 8 COPIES OF SUBMITTAL DATA FOR THE TESTING AND BALANCING OF THE AIR CONDITIONING, HEATING, AND VENTILATING SYSTEMS. THE AIR BALANCE AND TESTING DATA SHALL BE THE BASIS FOR THE PROOF OF HAVING SUCCESSFULLY COMPLETED AT LEAST FIVE PROJECTS OF SIMILAR SIZE AND SCOPE.  
THE AIR BALANCING CONTRACTOR SHALL INCLUDE THE ADDITIONAL COST TO CHANGE EVERY FAN FACTORY INSTALLED SHEAVE, PULLEY AND/OR BELT OF IN ORDER TO TO CHANGE THE DESIGN AIR FLOWS. PERFORMING TESTING, ADJUSTING AND BALANCING  
PERFORM TESTING AND BALANCING PROCEDURES ON EACH SYSTEM IDENTIFIED, IN ACCORDANCE WITH THE DETAILED PROCEDURES OUTLINED IN THE REFERENCED STANDARDS.  
CUT INSULATION, DUCTWORK, AND PIPING FOR INSTALLATION OF TEST PROBES TO THE MINIMUM EXTENT NECESSARY TO ALLOW ADEQUATE PERFORMANCE OF PROCEDURES.  
PATCH INSULATION, DUCTWORK, AND HOUSINGS, USING MATERIALS IDENTICAL TO THOSE REMOVED. SEAL DUCTS AND PIPING, AND TEST FOR AND REPAIR LEAKS.  
CHECK ALL FILTERS FOR CLEANLINESS. PROVIDE NEW VAPOR BARRIER.  
MARK EQUIPMENT SETTINGS, INCLUDING DAMPER CONTROL POSITIONS; VALVE INDICATORS, FAN SPEED CONTROL LEVERS, AND SIMILAR CONTROLS AND DEVICES. TO SHOW FINAL SETTINGS. MARK WITH PAINT OR OTHER SUITABLE, PERMANENT IDENTIFICATION MATERIALS.  
RETEST, ADJUST, AND BALANCE SYSTEMS SUBSEQUENT TO SIGNIFICANT SYSTEM MODIFICATIONS, AND RESUBMIT TEST RESULTS.

23 07 13.00 - DUCT INSULATION  
PROVIDE INSULATION ON ALL CONCEALED SUPPLY, RETURN AND OUTSIDE AIR DUCTWORK. ALL LINERS, INSULATION AND ADHESIVES SHALL HAVE A FLAME SPREAD INDEX NOT MORE THAN 25 AND A SMOKE DEVELOPED INDEX OF NOT MORE THAN 50.  
RIGID FIBERGLASS DUCTWORK INSULATION: GLASS FIBERS BONDED WITH A THERMOSETTING RESIN. COMPLY WITH ASTM C 812, TYPE 1B, WITHOUT FACING AND WITH VAPOR BARRIER ALL-SERVICE JACKET MANUFACTURED FROM KRAFT PAPER, REINFORCING SCRM, ALUMINUM FOIL, AND VINYL FILM.  
INSULATION SHALL HAVE A MINIMUM R VALUE AS REQUIRED BY CODE.  
FLEXIBLE FIBERGLASS DUCTWORK INSULATION: GLASS FIBERS BONDED WITH A THERMOSETTING RESIN. COMPLY WITH ASTM C 553, TYPE II, WITHOUT FACING AND WITH VAPOR BARRIER ALL-SERVICE JACKET MANUFACTURED FROM KRAFT PAPER, REINFORCING SCRM, ALUMINUM FOIL, AND VINYL FILM.  
INSULATION SHALL HAVE A MINIMUM R VALUE AS REQUIRED BY CODE.  
VAPOR BARRIER MATERIAL: FOR DUCTWORK: PAPER-BACKED ALUMINUM-FOIL. EXCEPT AS OTHERWISE INDICATED; STRENGTH AND PERMEABILITY RATING EQUIVALENT TO FACTORY-APPLIED VAPOR BARRIERS ON ADJOINING DUCTWORK INSULATION, WHERE AVAILABLE, WITH FOLLOWING ADDITIONAL CONSTRUCTION CHARACTERISTICS:  
HIGH PUNCTURE RESISTANCE: LOW VAPOR TRANSMISSION (FOR DUCTS IN EXPOSED AREAS: MECH. ROOMS, ETC.)  
MODERATE PUNCTURE RESISTANCE: MEDIUM VAPOR TRANSMISSION (FOR DUCTS IN CONCEALED AREAS).

23 09 93.00 - SEQUENCE OF OPERATIONS FOR HVAC CONTROLS  
PACKAGED ROOFTOP UNIT  
1. STARTUP  
THE UNIT SHALL OPERATE ON A 7 DAY/NIGHT PROGRAMMABLE THERMOSTAT.  
DURING STARTUP, THE FAN SHALL RUN WITH THE DAMPERS IN THE FULL RECIRCULATION POSITION.  
2. FIRST RESUBMISSION, 02 - SECOND RESUBMISSION, ETC.). RESUBMITTALS SHALL INCLUDE A COPY OF THE REVIEWER'S COMMENTS SUPPLIED WITH THE PRIOR SUBMITTAL.  
REJECTION AND SHALL BE AMENDED WITH A DESCRIPTION OF THE SPECIFIC ACTION TAKEN TO COMPLY WITH THE REVIEWER'S COMMENTS. THE ABSENCE OF THIS ON RESUBMITTAL IS CAUSE FOR REJECTION.  
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23 07 13.00 - DUCT INSULATION  
PROVIDE INSULATION ON ALL CONCEALED SUPPLY, RETURN AND OUTSIDE AIR DUCTWORK. ALL LINERS, INSULATION AND ADHESIVES SHALL HAVE A FLAME SPREAD INDEX NOT MORE THAN 25 AND A SMOKE DEVELOPED INDEX OF NOT MORE THAN 50.  
RIGID FIBERGLASS DUCTWORK INSULATION: GLASS FIBERS BONDED WITH A THERMOSETTING RESIN. COMPLY WITH ASTM C 812, TYPE 1B, WITHOUT FACING AND WITH VAPOR BARRIER ALL-SERVICE JACKET MANUFACTURED FROM KRAFT PAPER, REINFORCING SCRM, ALUMINUM FOIL, AND VINYL FILM.  
INSULATION SHALL HAVE A MINIMUM R VALUE AS REQUIRED BY CODE.  
FLEXIBLE FIBERGLASS DUCTWORK INSULATION: GLASS FIBERS BONDED WITH A THERMOSETTING RESIN. COMPLY WITH ASTM C 553, TYPE II, WITHOUT FACING AND WITH VAPOR BARRIER ALL-SERVICE JACKET MANUFACTURED FROM KRAFT PAPER, REINFORCING SCRM, ALUMINUM FOIL, AND VINYL FILM.  
INSULATION SHALL HAVE A MINIMUM R VALUE AS REQUIRED BY CODE.  
VAPOR BARRIER MATERIAL: FOR DUCTWORK: PAPER-BACKED ALUMINUM-FOIL. EXCEPT AS OTHERWISE INDICATED; STRENGTH AND PERMEABILITY RATING EQUIVALENT TO FACTORY-APPLIED VAPOR BARRIERS ON ADJOINING DUCTWORK INSULATION, WHERE AVAILABLE, WITH FOLLOWING ADDITIONAL CONSTRUCTION CHARACTERISTICS:  
HIGH PUNCTURE RESISTANCE: LOW VAPOR TRANSMISSION (FOR DUCTS IN EXPOSED AREAS: MECH. ROOMS, ETC.)  
MODERATE PUNCTURE RESISTANCE: MEDIUM VAPOR TRANSMISSION (FOR DUCTS IN CONCEALED AREAS).

23 09 93.00 - SEQUENCE OF OPERATIONS FOR HVAC CONTROLS  
PACKAGED ROOFTOP UNIT  
1. STARTUP  
THE UNIT SHALL OPERATE ON A 7 DAY/NIGHT PROGRAMMABLE THERMOSTAT.  
DURING STARTUP, THE FAN SHALL RUN WITH THE DAMPERS IN THE FULL RECIRCULATION POSITION.  
2. FIRST RESUBMISSION, 02 - SECOND RESUBMISSION, ETC.). RESUBMITTALS SHALL INCLUDE A COPY OF THE REVIEWER'S COMMENTS SUPPLIED WITH THE PRIOR SUBMITTAL.  
REJECTION AND SHALL BE AMENDED WITH A DESCRIPTION OF THE SPECIFIC ACTION TAKEN TO COMPLY WITH THE REVIEWER'S COMMENTS. THE ABSENCE OF THIS ON RESUBMITTAL IS CAUSE FOR REJECTION.  
NAME ELECTRONIC FILES TO MATCH THE SUBMITTAL ID AND COVER SHEET: THE ELECTRONIC FILE NAME OF SUBMITTALS MUST MATCH THE SUBMITTAL ID INCLUDED ON THE SUBMITTALS COVER PAGE. FOR EXAMPLE: THE ORIGINAL/FIRST PRODUCT DATA SUBMITTAL FOR SECTION 234116.00.WOULD BE LABELED AS "234116.00-PD-00". THE FIRST RESUBMITTAL OF SAME SHALL BE LABELED "234116.00-PD-01". THE ORIGINAL/FIRST SHOP DRAWINGS SUBMITTAL FILE FOR THE SAME SECTION WOULD BE LABELED "234116.00-SD-00". THE FIRST RESUBMITTAL OF SAME SHALL BE LABELED "234116.00-SD-01".  
USE OF ELBOW OR SHORT DOWN TO BLOW (NONE PAGE): HTTP://WWW.KLIHENGRS.COM.  
23 05 29.00 - HANGERS AND SUPPORTS FOR HVAC PIPING AND EQUIPMENT  
GENERAL  
SUPPORT ALL PIPING, DUCTWORK AND EQUIPMENT BY HANGERS OR BRACKETS. FURNISH STRUCTURAL STEEL MEMBERS WHERE REQUIRED TO SUPPORT PIPING AND EQUIPMENT. NO PORTION OF PIPING OR VALVES SHALL BE SUPPORTED BY EQUIPMENT.  
DUCTWORK - SUPPORT BY MEANS OF HANGERS AS FOLLOWS:  
DUCT WIDTH HANGER SIZE AND TYPE MAX. SPACING  
30 OR LESS (#16 GAGE) 8  
A PAIR OF HANGERS SHALL BE LOCATED AT EVERY TRANSVERSE JOINT AND ELSEWHERE ACCORDING TO THE FOLLOWING TABLE:  
23 05 03.00 - TESTING, ADJUSTING AND BALANCING FOR HVAC  
GENERAL  
TEST, ADJUST, AND BALANCE THE FOLLOWING MECHANICAL SYSTEMS:  
SUPPLY AIR SYSTEMS  
RETURN AIR SYSTEMS  
EXHAUST AIR SYSTEMS.

DEFINED BY THE FOLLOWING: THE SUPPLY FAN IS OFF, THE OUTDOOR AIR INTAKE DAMPER IS CLOSED, THE HEATING IS OFF AND THE MECHANICAL COOLING IS OFF, THE SUPPLY FAN SHALL CYCLE IN CONJUNCTION WITH EITHER THE HEATING OR COOLING SYSTEM TO MAINTAIN A MINIMUM/MAXIMUM SPACE TEMPERATURE DEPENDING ON THE SEASON.  
TOILET EXHAUST FANS (MANUAL)  
EXHAUST FANS SHALL BE CONTROLLED BY PROGRAMMABLE TIMER FURNISHED, INSTALLED AND WIRED SUBMITTALS  
CERTIFIED REPORTS: SUBMIT TESTING, ADJUSTING, AND BALANCING REPORTS BEARING THE SEAL AND SIGNATURE OF THE TEST AND BALANCE ENGINEER. THE REPORTS SHALL BE CERTIFIED PROOF THAT THE SYSTEMS HAVE BEEN TESTED, ADJUSTED, AND BALANCED IN ACCORDANCE WITH THE REFERENCED STANDARDS. ARE AN ACCURATE REPRESENTATION OF HOW THE SYSTEMS HAVE BEEN INSTALLED. ARE A TRUE REPRESENTATION OF HOW THE SYSTEMS ARE OPERATING AT THE COMPLETION OF THE TESTING, ADJUSTING, AND BALANCING PROCEDURES; AND ARE AN ACCURATE RECORD OF ALL FINAL QUANTITIES MEASURED, TO ESTABLISH NORMAL OPERATING VALUES OF THE SYSTEMS. FOLLOW THE PROCEDURES AND FORMAT SPECIFIED BELOW.  
FINAL REPORT: UPON VERIFICATION AND APPROVAL PREPARE FINAL REPORTS, TYPE WRITTEN, AND ORGANIZED AND FORMATTED AS SPECIFIED BELOW. SUBMIT 2 COMPLETE SETS OF FINAL REPORT TO THE OWNER.  
REPORT FORMAT: REPORT FORMS SHALL BE THOSE STANDARD FORMS PREPARED BY THE REFERENCED STANDARD FOR EACH RESPECTIVE ITEM AND SYSTEM TO BE TESTED, ADJUSTED, AND BALANCED.  
QUALIFICATIONS  
THE CONTRACTOR SHALL PROCURE THE SERVICES OF AN INDEPENDENT BALANCE AND TESTING AGENCY, APPROVED BY THE ENGINEER, AND A MEMBER OF ASSOCIATED AIR BALANCE COUNCIL (AABC) OR NEBB, WHICH SPECIALIZES IN THE BALANCING AND TESTING OF HEATING, VENTILATING AND AIR CONDITIONING SYSTEMS, TO BALANCE, ADJUST AND TEST ALL AIR AND WATER SYSTEMS AND EQUIPMENT AS HEREIN SPECIFIED. ALL WORK BY THIS AGENCY SHALL BE DONE UNDER DIRECT SUPERVISION OF A QUALIFIED AND TRAINED OPERATOR EMPLOYED BY THIS AGENCY. ALL INSTRUMENTS USED BY THIS AGENCY SHALL BE ACCURATELY CALIBRATED AND MAINTAINED IN GOOD WORKING ORDER.  
SEQUENCING AND SCHEDULING  
TEST, ADJUST, AND BALANCE THE AIR SYSTEMS BEFORE HYDRONIC, STEAM, AND REFRIGERANT SYSTEMS.  
TEST, ADJUST AND BALANCE AIR CONDITIONING SYSTEMS DURING SUMMER SEASON AND HEATING SYSTEMS DURING WINTER SEASON, INCLUDING AT LEAST A PERIOD OF OPERATION AT OUTSIDE CONDITIONS WITHIN 5 DEG F WET BULB TEMPERATURE OF MAXIMUM SUMMER DESIGN CONDITION, AND WITHIN 10 DEG F DRY BULB TEMPERATURE OF MINIMUM WINTER DESIGN CONDITION. TAKE FINAL TEMPERATURE READINGS DURING SEASONAL OPERATION.

CHECK ALL FILTERS FOR CLEANLINESS. PROVIDE NEW VAPOR BARRIER. CHECK DAMPERS (VOLUME AND FIRE) FOR CORRECT AND LOCKED POSITION, AND TEMPERATURE CONTROL, FOR COMPLETENESS OF INSTALLATION BEFORE STARTING FANS. PLACE OUTLET DAMPERS IN FULL OPEN POSITION. LUBRICATE ALL MOTORS AND BEARINGS. CHECK FAN BELT TENSION, CHECK FAN ROTATION. AIR BALANCE AND TESTING SHALL NOT BEGIN UNTIL THE SYSTEM HAS BEEN COMPLETED AND IS IN FULL WORKING ORDER. THE CONTRACTOR SHALL PUT ALL HEATING, VENTILATING AND AIR CONDITIONING SYSTEMS AND EQUIPMENT INTO FULL OPERATION AND SHALL CONTINUE THE OPERATION OF SAME DURING EACH WORKING DAY OF TESTING AND BALANCING. THE CONTRACTOR SHALL SUBMIT WITHIN 30 DAYS AFTER RECEIPT OF CONTRACT, 8 COPIES OF SUBMITTAL DATA FOR THE TESTING AND BALANCING OF THE AIR CONDITIONING, HEATING, AND VENTILATING SYSTEMS. THE AIR BALANCE AND TESTING DATA SHALL BE THE BASIS FOR THE PROOF OF HAVING SUCCESSFULLY COMPLETED AT LEAST FIVE PROJECTS OF SIMILAR SIZE AND SCOPE.  
THE AIR BALANCING CONTRACTOR SHALL INCLUDE THE ADDITIONAL COST TO CHANGE EVERY FAN FACTORY INSTALLED SHEAVE, PULLEY AND/OR BELT OF IN ORDER TO TO CHANGE THE DESIGN AIR FLOWS. PERFORMING TESTING, ADJUSTING AND BALANCING  
PERFORM TESTING AND BALANCING PROCEDURES ON EACH SYSTEM IDENTIFIED, IN ACCORDANCE WITH THE DETAILED PROCEDURES OUTLINED IN THE REFERENCED STANDARDS.  
CUT INSULATION, DUCTWORK, AND PIPING FOR INSTALLATION OF TEST PROBES TO THE MINIMUM EXTENT NECESSARY TO ALLOW ADEQUATE PERFORMANCE OF PROCEDURES.  
PATCH INSULATION, DUCTWORK, AND HOUSINGS, USING MATERIALS IDENTICAL TO THOSE REMOVED. SEAL DUCTS AND PIPING, AND TEST FOR AND REPAIR LEAKS.  
CHECK ALL FILTERS FOR CLEANLINESS. PROVIDE NEW VAPOR BARRIER.  
MARK EQUIPMENT SETTINGS, INCLUDING DAMPER CONTROL POSITIONS; VALVE INDICATORS, FAN SPEED CONTROL LEVERS, AND SIMILAR CONTROLS AND DEVICES. TO SHOW FINAL SETTINGS. MARK WITH PAINT OR OTHER SUITABLE, PERMANENT IDENTIFICATION MATERIALS.  
RETEST, ADJUST, AND BALANCE SYSTEMS SUBSEQUENT TO SIGNIFICANT SYSTEM MODIFICATIONS, AND RESUBMIT TEST RESULTS.  
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PROVIDE INSULATION ON ALL CONCEALED SUPPLY, RETURN AND OUTSIDE AIR DUCTWORK. ALL LINERS, INSULATION AND ADHESIVES SHALL HAVE A FLAME SPREAD INDEX NOT MORE THAN 25 AND A SMOKE DEVELOPED INDEX OF NOT MORE THAN 50.  
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DENSITY FOR ACOUSTIC REQUIREMENTS 1" THICK OR AS NOTED. SIZE OF DUCTWORK SHOWN ON THE DRAWINGS IS FREE NET AREA. OUTSIDE DIMENSION OF DUCTS WILL NEED TO BE INCREASED IF LINED DUCT IS USED.  
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DUCT LINER: FIBROUS GLASS OF THICKNESS INDICATED. 3-LB DENSITY. ALL LINERS, INSULATION AND ADHESIVES SHALL HAVE A FLAME SPREAD INDEX NOT MORE THAN 25 AND A SMOKE DEVELOPED INDEX OF NOT MORE THAN 50.  
PIZZA OVEN EXHAUST FAN (TYPE I)  
THE EXHAUST FAN SHALL BE CONTROLLED BY PROGRAMMABLE TIMER FURNISHED, INSTALLED AND WIRED BY ELECTRICAL CONTRACTOR. WHEN ACTIVATED, EXHAUST FAN MOTOR DAMPER SHALL OPEN AND FAN SHALL START.  
(INDICATED BY EC ON HECS SCHEDULE)  
DUCT LINER ADHESIVE  
DUCT LINER FASTENERS: COMPLY WITH SMACNA HVAC DUCT CONSTRUCTION STANDARDS.  
INSTALLATION OF METAL DUCTWORK  
GENERAL: ASSEMBLE AND INSTALL DUCTWORK IN ACCORDANCE WITH RECOGNIZED INDUSTRY PRACTICES WHICH WILL ACHIEVE AIR-TIGHT (5% LEAKAGE FOR SYSTEMS RATED 3" AND UNDER; 1% FOR SYSTEMS RATED OVER 3") AND NOISELESS (NO OBJECTIONABLE NOISE) SYSTEMS; CAPABLE OF PERFORMING EACH INDICATED SERVICE. INSTALL EACH RUN WITH MINIMUM NUMBER OF JOINTS. ALIGN DUCTWORK ACCURATELY AT CONNECTIONS, WITHIN 1/8" MISALIGNMENT TOLERANCE AND WITH INTERNAL SURFACES SMOOTH. SUPPORT DUCTS RIGIDLY WITH SUITABLE TIES, BRACES, HANGERS AND ANCHORS OF TYPE WHICH WILL HOLD DUCTS TRUE-TO-SHAPE AND TO PREVENT BUCKLING. SUPPORT VERTICAL DUCTS AT EVERY FLOOR.  
SEALING: SEAL ALL LONGITUDINAL SEAMS, S'S AND DRIVES AND ALL JOINTS WITH MASTIC OR CEMENT. INSTALL ACCORDING TO SMACNA STANDARDS.  
BALANCING DAMPERS: THE SHEET METAL CONTRACTOR SHALL BE FULLY RESPONSIBLE FOR INSTALLING BALANCING DAMPERS IN THE DUCTWORK, (WHETHER SH



2035 156th CT NE Suite 200 Bellevue, WA 98008



ARCH COA #2015008774 ENG COA #2005026904

ARCHITECTURE ENGINEERING PERMITTING

220 E. CENTRAL PKWY, STE 4000 ALTAMONTE SPRINGS, FL 32701 407.645.5008 PROJECT NO. 2021.0524

CONSULTANT



Digitally signed by Stacy T Henson Date: 2021.10.21 16:47:13 -04'00'

MOD LEE'S SUMMIT 460 NW CHIPMAN RD LEE'S SUMMIT, MO 64086

Table with 3 columns: ISSUED / REVISED, BUILDING COMMENTS, DESIGN UPGRADES, DATE

PERMIT SET 09.20.21

SP-912 PLUMBING SPECIFICATIONS

CHECKED: DAK DRAWN: QN

PLUMBING SPECIFICATIONS

GENERAL

THE GENERAL CONDITIONS, SUPPLEMENTARY CONDITIONS AND INSTRUCTIONS TO BIDDERS SHALL APPLY TO AND BE PART OF THIS SPECIFICATION.

CONTRACTOR SHALL COMPLY WITH ALL APPLICABLE CODES, RULES AND REGULATIONS.

CONTRACTOR SHALL OBTAIN AND PAY FOR ALL PERMITS, CERTIFICATES OF INSPECTION AND APPROVALS REQUIRED.

SCOPE OF WORK

WATER PIPING SYSTEMS NATURAL GAS PIPING SYSTEMS SOIL, WASTE, AND VENT PIPING SYSTEMS PLUMBING FIXTURES PLUMBING EQUIPMENT PIPE JOINTS AND CONNECTION PLUMBING INSULATION INTERRUPTION OF SERVICES WARRANTY

GENERAL STANDARDS

THE APPLICABLE PROVISIONS OF THE FOLLOWING STANDARDS SHALL GOVERN:

AMERICAN SOCIETY FOR TEST MATERIALS (ASTM); AMERICAN STANDARDS ASSOCIATION (ASA); UNDERWRITERS LABORATORIES (UL); NATIONAL FIRE PROTECTION ASSOCIATION (NFPA); 2012 INTERNATIONAL BUILDING CODE; 2012 UNIFORM PLUMBING CODE.

THE INSTALLATION OF ALL PLUMBING WORK SHALL CONFORM TO THE APPLICABLE LOCAL PLUMBING CODES AND STATUTES.

EXCAVATION AND BACKFILL

DO ALL EXCAVATION AND BACKFILLING. LAY SEWER AND UNDERGROUND PIPING LINES ON 6" COMPACTED SAND. BACKFILL UNDER BUILDING AND ALL DRIVES, ROADS AND WALKS WITH BANK-RUN GRAVEL.

WATER PIPING SYSTEMS

INTERIOR BACKFLOW PREVENTERS WITH FUNNELS AND DRAINS DOMESTIC COLD-WATER PIPING DOMESTIC HOT-WATER PIPING

TRAP PRIMERS FOR FLOOR DRAINS (PROVIDE SHUT-OFF VALVE BEFORE EACH TRAP PRIMER)

INSTALL WATER PRESSURE REGULATORS WHERE NECESSARY TO LIMIT THE INCOMING WATER PRESSURE TO 80 PSI INSIDE THE BUILDING.

INTERIOR WATER PIPING

TUBE SIZE 2" AND SMALLER: COPPER TUBE. WALL THICKNESS: TYPE L, HARD-DRAWN TEMPER. FITTINGS: WROUGHT-COPPER, SOLDER-JOINTS. TUBE SIZE 2-1/2" AND LARGER: COPPER TUBE. WALL THICKNESS: TYPE L, HARD-DRAWN TEMPER. FITTINGS: WROUGHT-COPPER, SOLDER-JOINTS.

REDUCED PRESSURE BACKFLOW PREVENTER (DOMESTIC BUILDING SERVICE):

BACKFLOW PREVENTER (2" AND SMALLER) - PROVIDE AND INSTALL A REDUCED PRESSURE BACKFLOW PREVENTER ON WATER SERVICE MAIN WHERE THE WATER SERVICE ENTERS THE BUILDING. REDUCED PRESSURE BACKFLOW PREVENTER SHALL BE EQUAL TO WATTS SERIES 919QT, AND SHALL BE SIZED EQUAL TO THE SIZE OF THE WATER SERVICE. APPROVED MANUFACTURERS OF EQUAL PRODUCTS SHALL BE CONBRACO AND WILKINS.

NATURAL GAS PIPING SYSTEMS

BUILDING DISTRIBUTION SYSTEM FROM GAS METER TO GAS-FIRED EQUIPMENT CONNECTIONS.

CONTRACTOR SHALL BE RESPONSIBLE FOR ALL COSTS ASSOCIATED WITH WORK PROVIDED BY THE UTILITY COMPANY, INCLUDING TAP FEES, INSTALLATION COSTS, ROAD CUTS, AND BORES IF APPLICABLE.

GAS SERVICE PIPING:

ALL EXTERIOR GAS PIPING SHALL BE MEDIUM DENSITY POLYETHYLENE PLASTIC PIPING APPROVED BY THE LOCAL UTILITY COMPANY.

BUILDING DISTRIBUTION PIPING:

ALL PIPING FROM OUTSIDE NEW FOUNDATION WALL TO GAS FIRED EQUIPMENT CONNECTIONS: BLACK STEEL PIPE.

PIPE SIZE 2" AND SMALLER: BLACK STEEL PIPE

PIPE WEIGHT: SCHEDULE 40

FITTINGS: MALLEABLE IRON THREADED

PIPE SIZE 2-1/2" AND LARGER: BLACK STEEL PIPE

PIPE WEIGHT: SCHEDULE 40

FITTINGS: WROUGHT-STEEL BUTTWELDING

GENERAL: PLUMBING CONTRACTOR SHALL BE RESPONSIBLE FOR INSTALLING GAS PIPING RUN-OUTS TO ALL GAS-FIRED EQUIPMENT, INCLUDING EQUIPMENT SUPPLIED BY THE HVAC AND ELECTRIC CONTRACTORS. PIPING SHALL BE INSTALLED FULL-SIZE (AS INDICATED ON THE DRAWINGS) TO EACH UNITS GAS INLET CONNECTION, BURNER, REGULATOR, ETC. PLUMBING SUBCONTRACTOR SHALL PROVIDE AND INSTALL GAS COCK AND MAKE FINAL CONNECTIONS. CONNECTIONS TO EACH GAS-FIRED EQUIPMENT ITEM SHALL INCLUDE A DRIP LEG AND SHUTOFF GAS COCK. COMPLY WITH EQUIPMENT MANUFACTURER'S INSTRUCTION. FOR CONNECTIONS TO GAS-FIRED ROOFTOP EQUIPMENT, PLUMBING CONTRACTOR SHALL BE RESPONSIBLE FOR THE ROOF PENETRATION AND SHALL INSTALL THE GAS PIPING THROUGH THE ROOF IN A LOCATION THAT HAS BEEN COORDINATED WITH THE HVAC CONTRACTOR.

SOIL, WASTE AND VENT PIPING SYSTEM

FURNISH AND INSTALL A COMPLETE SOIL, WASTE AND VENT SYSTEM IN THE BUILDING AND ON THE SITE AS INDICATED ON THE DRAWINGS AND AS SPECIFIED HEREIN.

ABOVE GROUND SOIL, WASTE AND VENT PIPING WITHIN BUILDINGS INCLUDING SOIL STACKS, VENT STACKS, HORIZONTAL BRANCHES, TRAPS, AND CONNECTIONS TO FIXTURES AND DRAINS.

UNDERGROUND BUILDING DRAIN PIPING INCLUDING MAINS, BRANCHES, TRAPS, CONNECTIONS TO FIXTURES AND DRAINS, AND CONNECTIONS TO STACKS, TERMINATING AT CONNECTION TO EXISTING SANITARY SEWER.

INTERIOR PIPING:

CAST IRON SOIL PIPING AND FITTINGS SERVICE WEIGHT ASTM A-74 WITH ASTM C-564 GASKETED JOINTS. SCHEDULE 40 PVC PIPE AND FITTINGS SHALL BE USED UNDER SLAB. CONTRACTOR SHALL MAINTAIN INTEGRITY OF FIRE RATINGS. PIPING SHALL NOT BE RUN IN PLENUM SPACES AND CONTRACTOR SHALL PROVIDE AND INSTALL INTUMESCENT COLLARS WHEN PENETRATING A RATED WALL, FLOOR, OR OTHER ASSEMBLY.

WASTE AND VENT PIPING 2-1/2" AND UNDER - TYPE "M" COPPER ASTM B88.62.

SOIL, WASTE AND VENT PIPING 3" AND OVER IN SIZE AND ALL UNDERGROUND CAST IRON SOIL PIPING AND FITTINGS, ASTM A-74, SERVICE WEIGHT.

NO-HUB CAST IRON PIPE AND FITTINGS MAY BE USED ABOVE FLOOR FOR SOIL, WASTE, AND VENT PIPING.

PIPING ALIGNMENT SHALL BE AS INDICATED ON THE DRAWINGS USING APPROVED Y BRANCHES OR EIGHT BANDS FOR DIRECTION CHANGES AND SHALL BE SURELY SUPPORTED OR SECURED TO MAINTAIN SUCH ALIGNMENT.

PITCH OF PIPING SHALL BE UNIFORM AT A MINIMUM OF 1/4" PER FOOT FOR BUILDING DRAINS AND AS INDICATED ON THE DRAWINGS FOR SEWERS.

PROTECTION SHALL BE GIVEN ALL FOOTINGS, OTHER STRUCTURAL ELEMENTS DURING UNDERGROUND WORK ADJACENT TO SUCH ITEMS. REFER TO STRUCTURAL DRAWINGS.

VENT ALL FIXTURES, CONNECT BRANCH VENTS TO MAIN VENT RISERS AT LEAST THREE FEET AND SIX INCHES ABOVE VENTED FIXTURES. PITCH VENT LINES BACK TO SOIL OR WASTE PIPE, FREE OF DROPS AND SAGS.

CLEANOUTS SHALL BE FULL SIZE OF PIPE UP TO 4", AND 4" FOR LARGER SIZES. FOR UNDERGROUND AND CONCEALED LINES, PROVIDE CLEANOUTS IN ACCESSIBLE POSITIONS AT EACH RIGHT ANGLE TURN AND AT INTERVALS NOT TO EXCEED FIFTY FEET. IN FLOORS, INSTALL FLUSH WITH FINISH FLOOR WITH EXTENSION PIPE FROM CLEANOUT "Y".

CLEANOUTS

REFER TO PLUMBING FIXTURE AND EQUIPMENT SCHEDULE FOR PROJECT SPECIFIC CLEANOUT MANUFACTURERS AND MODELS.

FLOOR DRAINS

JOSAM, SMITH, WADE, ZURN, WATTS, MIFAB, SIOUX CHIEF, OR OATEY

FLOOR DRAIN TO BE ZURN Z415 WITH DOUBLE DRAINAGE FLANGE, WEEP HOLES, CAULKED OUTLET, 6" NICKLE BRONZE STRAINER AND PRIMER CONNECTION.

NOTE: ALL FLOOR DRAINS LOCATED IN ROOMS WHICH HAVE TILE FLOORS SHALL HAVE SQUARE STRAINERS. THE PLUMBING CONTRACTOR SHALL PROVIDE TRAP PRIMERS FOR FLOOR DRAINS, AS INDICATED ON THE DRAWINGS (TP1). TRAP PRIMER SHALL BE EQUAL TO MIFAB MR-500 TRAP PRIMER VALVE.

REFER TO PLUMBING FIXTURE AND EQUIPMENT SCHEDULE FOR PROJECT SPECIFIC FLOOR DRAIN MANUFACTURERS AND MODELS.

PLUMBING FIXTURES

REFER TO PLUMBING FIXTURE AND EQUIPMENT SCHEDULE.

MANUFACTURER: SUBJECT TO COMPLIANCE WITH REQUIREMENTS

PLUMBING EQUIPMENT

REFER TO PLUMBING FIXTURE AND EQUIPMENT SCHEDULE.

WATER HEATER - REFER TO PLUMBING FIXTURE AND EQUIPMENT SCHEDULE.

CATHODIC PROTECTION

PROVIDE DIELECTRIC INSULATION AT POINTS WHERE COPPER OR BRASS PIPE COMES IN CONTACT WITH FERROUS PIPING, REINFORCING STEEL OR OTHER DISSIMILAR METAL IN STRUCTURE.

SHOCK ABSORBERS

REMOVE SHOCK CONDITIONS FROM ALL PIPING. PROVIDE AND INSTALL SHOCK ABSORBERS ON ALL PIPING SERVING FLUSH VALVE FIXTURES.

VALVES

PROVIDE STOPS ON DOMESTIC WATER SUPPLIES TO ISOLATE HOT AND COLD WATER TO EACH FIXTURE, INCLUDING ALL EQUIPMENT AND EQUIPMENT PROVIDED BY OTHERS.

FIXTURES, ITEM OR UNITS FURNISHED BY THE MANUFACTURER WITH INTEGRAL STOPS OR STOPS SPECIFIED WITH THE FIXTURE ARE CONSIDERED TO BE PROPERLY VALVED OFF AT THE FIXTURES.

ACCESS SHALL BE PROVIDED TO ALL VALVES.

VALVES ON DOMESTIC WATER PIPING SHALL BE BALL VALVES OR BUTTERFLY VALVES DEPENDING ON SIZE. ALL VALVES INSTALLED ON DOMESTIC WATER PIPING 3" AND SMALLER SHALL BE BALL VALVES.

BALL VALVES - 1 INCH AND SMALLER: 2-PIECE BODY, 600 PSI CWP, 150 PSI SWP, CAST BRONZE BODY, FULL PORT, TEFLON SEATS, BLOWOUT-PROOF STEM, ADJUSTABLE PACKING GLAND, CHROME PLATED BRONZE BALL, WITH SCREWED ENDS, AND VINYL-COVERED STEEL HANDLE, PROVIDE SOLDER ENDS, PROVIDE EXTENDED VALVE STEMS FOR VALVES USED ON INSULATED LINES, PROVIDE EQUAL TO NIBCO SERIES 585-70-NS.

CHECK VALVES

SWING CHECK VALVES - CLASS 125, CAST BRONZE BODY AND CAP, HORIZONTAL SWING, Y-PATTERN, WITH A BRONZE DISC, AND HAVING THREADED OR SOLDER ENDS, PROVIDE SOLDER ENDS FOR DOMESTIC HOT AND COLD WATER SERVICE, PROVIDE EQUAL TO NIBCO S-413.

PIPE JOINTS AND CONNECTION

ALL CUTTING AND PATCHING OF FINISHED CONSTRUCTION OF BUILDING SHALL BE PERFORMED BY THIS CONTRACTOR UNDER THE SECTION OF SPECIFICATIONS COVERING THESE MATERIALS.

ANY MINOR ADJUSTMENT IN LOCATION OF ALIGNMENT OF NEW WORK OR TO CONNECT TO EXISTING UTILITIES SHALL BE PERFORMED AS DIRECTED BY THE ARCHITECT WITHOUT ADDITIONAL COST TO THE OWNER.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR DAMAGES TO THE GROUNDS, WALKS, ROAD, BUILDING, PIPING SYSTEMS, ELECTRICAL SYSTEMS, AND THEIR EQUIPMENT AND CONTENTS, CAUSED BY LEAKS IN THE PIPING SYSTEMS BEING INSTALLED OR HAVING BEEN INSTALLED BY HIM. HE SHALL REPAIR AT HIS EXPENSE ALL DAMAGED SO CAUSED. ALL REPAIR WORK SHALL BE DONE AS DIRECTED BY AND IN SUCH MANNER AS SATISFACTORY TO THE ARCHITECT.

OWNER RESERVES THE RIGHT TO MAKE EMERGENCY REPAIRS AS REQUIRED TO KEEP EQUIPMENT IN OPERATION WITHOUT VOIDING THE CONTRACTOR'S GUARANTEE BOND NOR RELIEVING THE CONTRACTOR OF HIS RESPONSIBILITIES DURING THE BONDING PERIOD.

PLUMBING INSULATION

INSULATE DOMESTIC COLD WATER PIPING, ASSOCIATED FITTINGS AND VALVES WITH 1/2" WALL THICKNESS INSULATION.

INSULATE DOMESTIC HOT WATER PIPING, ASSOCIATED FITTINGS AND VALVES WITH 3/4" WALL THICKNESS INSULATION.

INSULATE DOMESTIC HOT WATER RETURN PIPING, ASSOCIATED FITTINGS AND VALVES WITH 3/4" WALL THICKNESS INSULATION.

INSULATE ABOVE FLOOR HORIZONTAL STORM DRAIN PIPING, ROOF DRAIN PANS, AND VERTICAL PIPING FROM ROOF DRAIN PAN TO THE FIRST HORIZONTAL BEND WITH 1/2" WALL THICKNESS INSULATION.

INSULATE WASTE PIPING ABOVE CEILINGS THAT RECEIVE CONDENSATE WITH 1/2" WALL THICKNESS INSULATION.

INSULATE WASTE PIPING, SUPPLY PIPING, STOPS, AND VALVES UNDER HANDICAP ACCESSIBLE PLUMBING FIXTURES.

FLEXIBLE ELASTOMERIC INSULATION

CLOSED-CELL, SPONGE- OR EXPANDED-RUBBER MATERIALS. COMPLY WITH ASTM C 534, TYPE I FOR TUBULAR MATERIALS AND TYPE II FOR SHEET MATERIALS.

MANUFACTURERS: ARMSTRONG ARMAFLEX II RUBATEX R-180-FS NOMACO K-FLEX

INSULATION SHALL BE LISTED AND LABELED PER ASTM E 84 FOR PLENUM INSTALLATIONS EMPLOYING SLIP ON TECHNIQUES.

JOINTS SHALL BE SEALED WITH ARMSTRONG #520 OR RUBATEX #373 ADHESIVE OR AS REQUIRED BY MANUFACTURER. PIPE INSULATION EXPOSED OUTSIDE SHALL BE COVERED WITH A VINYL WRAP.

FIBERGLASS INSULATION

FIBERGLASS PIPING INSULATION: ASTM C 547, CLASS 1

ENCASE PIPE FITTINGS INSULATION WITH ONE-PIECE PREMOLEDDED PVC FITTING COVERS. VAPOR BARRIER MATERIAL: PAPER-BACKED ALUMINUM FOIL, EXCEPT AS OTHERWISE INDICATED, STRENGTH AND PERMEABILITY RATING EQUIVALENT TO ADJOINING PIPE INSULATION JACKETING.

STAPLES, BANDS, WIRES, AND CEMENT: AS RECOMMENDED BY INSULATION MANUFACTURER FOR APPLICATIONS INDICATED.

ADHESIVES, SEALERS, AND PROTECTIVE FINISHES: AS RECOMMENDED BY INSULATION MANUFACTURER FOR APPLICATIONS INDICATED.

MANUFACTURERS: ARMSTRONG WORLD INDUSTRIES, INC. OWENS-CORNING FIBERGLASS CORP. KEENE CORP. CERTAINTED. JOHNS MANVILLE.

INSULATION FOR HANDICAP ACCESSIBLE FIXTURES

ALL HANDICAP LAVATORY P-TRAP AND ANGLE STOP ASSEMBLIES SHALL BE INSULATED WITH TRAP WRAP PROTECTIVE KIT MANUFACTURED BY PROFLO MODEL PF202WH OR EQUAL. ABRASION RESISTANT, ANTI-MICROBIAL VINYL EXTERIOR COVER SHALL BE SMOOTH. FOR TRAPS, THE INSULATION SHALL HAVE A CLEANOUT NUT CAP TO ALLOW SERVICE TO THE TRAP WITHOUT DISASSEMBLY. FOR STOPS, THE INSULATION SHALL HAVE A LOCK LID THAT PREVENTS TAMPERING BUT ALLOWS ACCESS WITHOUT REMOVAL OF THE INSULATION. FASTENERS SHALL REMAIN SUBSTANTIALLY OUT OF SIGHT.

MANUFACTURERS: SUBJECT TO COMPLIANCE WITH REQUIREMENTS: PROFLO TRUEBRO PLUMBEREX

WATER-HAMMER ARRESTERS

MANUFACTURERS: SUBJECT TO COMPLIANCE WITH REQUIREMENTS, AVAILABLE MANUFACTURERS OFFERING PRODUCTS THAT MAY BE INCORPORATED INTO THE WORK INCLUDE, BUT ARE NOT LIMITED TO, THE FOLLOWING:

AMTROL, INC. JOSAM COMPANY. MIFAB, INC. PRECISION PLUMBING PRODUCTS, INC. SIOUX CHIEF MANUFACTURING COMPANY, INC. SMITH, JAY R. MFG. CO., DIVISION OF SMITH INDUSTRIES, INC. TYLER PIPE, WADE DIV. WATTS DRAINAGE PRODUCTS. ZURN INDUSTRIES, LLC; PLUMBING PRODUCTS GROUP; SPECIFICATION DRAINAGE PRODUCTS.

STANDARD: ASSE 1010 OR PDI-WH 201. TYPE: METAL BELLOWS OR COPPER TUBE WITH PISTON. SIZE: ASSE 1010, SIZES AA AND A THROUGH F, OR PDI-WH 201, SIZES A THROUGH F.

INSTALL WATER-HAMMER ARRESTERS IN WATER PIPING ACCORDING TO PDI-WH 201.

INTERRUPTION OF SERVICES

WHEN IT IS REQUIRED TO INTERRUPT EXISTING SERVICES, THIS CONTRACTOR SHALL FIRST NOTIFY THE ARCHITECT THAT AN INTERRUPTION IS REQUIRED. IT SHOULD BE NOTED THAT FACILITIES MUST BE KEPT IN OPERATION AS MUCH AS POSSIBLE.

THIS CONTRACTOR SHALL ADVISE THE ARCHITECT OF THE LENGTH OF TIME THE SERVICE WILL BE INTERRUPTED AND SHALL GET PERMISSION FROM THE ARCHITECT BEFORE PROCEEDING WITH THE WORK.

WARRANTY

THIS CONTRACTOR SHALL WARRANT THAT ALL WORK UNDER THIS SECTION SHALL BE FREE OF DEFECTIVE WORK, MATERIALS AND PARTS FOR A PERIOD OF ONE YEAR AFTER ACCEPTANCE OF THE WORK AND SHALL REPAIR, REVISE, AND REPLACE, AT NO COST TO THE OWNER, ANY SUCH DEFECTS OCCURRING WITHIN THE WARRANTY PERIOD.





2035 156th CT NE Suite 200 Bellevue, WA 98008

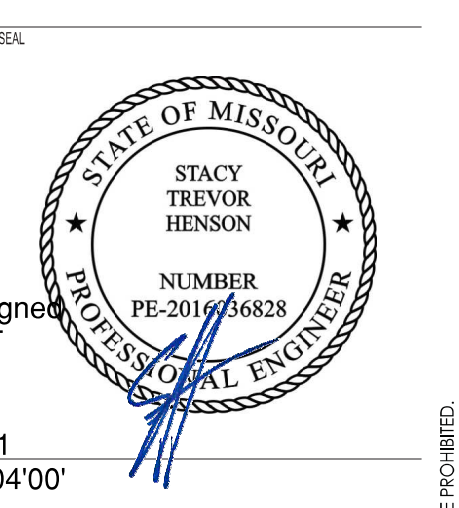


ARCH COA #2015008774 ENG COA #2005026904

ARCHITECTURE ENGINEERING PERMITTING

220 E. CENTRAL PKWY. STE 4000 ALTAMONTE SPRINGS, FL 32701 407.645.5028 PROJECT NO. 2021.0524

CONSULTANT



Digitally signed by Stacy T Henson Date: 2021.10.21 16:47:14 -0400'

MOD LEES SUMMIT 460 NW CHIPMAN RD LEES SUMMIT, MO 64086

Table with 2 columns: ISSUED / REVISED, DATE. Rows include BUILDING COMMENTS, DESIGN UPGRADES.

PERMIT SET 09.20.21

SP-913 ELECTRICAL SPECIFICATIONS

SPECIFICATIONS

260500 - COMMON WORK RESULTS FOR ELECTRICAL

A. SCOPE OF WORK

- 1. COMPLY WITH THE GENERAL CONDITIONS OF THIS CONTRACT. THE REQUIREMENTS OF THIS SPECIFICATION ARE IN ADDITION TO THE REQUIREMENTS OF THE GENERAL CONDITIONS.
2. UNLESS OTHERWISE NOTED, PROVIDE DEMOLITION OF EXISTING POWER RECEPTACLES, LIGHT FIXTURES, RACEWAYS, WIRING, VOICE/DATA OUTLETS AND VOICE/DATA CABLING. DEMOLISH FIRE ALARM DEVICES AND WIRING WHERE IN CONFLICT WITH NEW WORK.
3. PROVIDE ALL LABOR AND MATERIAL NECESSARY TO ACCOMPLISH THE WORK SPECIFIED HEREIN AND AS SHOWN ON THE DRAWINGS.
4. COORDINATE WORK WITH ALL OTHER TRADES.
5. VISIT THE SITE AND VERIFY EXISTING CONDITIONS PRIOR TO SUBMITTING BID.
6. REMOVE ALL WASTE AND RUBBISH FROM THE SITE ON A DAILY BASIS.

B. WARRANTY: WORKMANSHIP AND MATERIALS SHALL BE GUARANTEED FOR A PERIOD OF ONE YEAR FROM THE DATE OF FINAL ACCEPTANCE BY THE OWNER. PROVIDE ADDITIONAL WARRANTY FOR VOICE/DATA SYSTEM AS NOTED ELSEWHERE.

C. REGULATIONS

- 1. ELECTRICAL WORK SHALL COMPLY WITH THE FOLLOWING CODES AS PRESENTLY APPLICABLE:
a. NATIONAL ELECTRICAL CODE (NEC)
b. ENERGY CODE
c. LOCAL AND STATE CODES AND REGULATIONS
2. PERMITS: OBTAIN AND PAY FOR ALL REQUIRED PERMITS.

D. SUBMITTAL AND SHOP DRAWINGS: PRIOR TO INSTALLATION, SUBMIT CATALOG DATA FOR ALL EQUIPMENT AND MATERIALS FOR REVIEW. SUBMIT SHOP DRAWINGS SHOWING COMPLETE TERMINAL-TO-TERMINAL WIRING FOR EACH SIGNAL AND COMMUNICATION SYSTEM. THREE COPIES REQUIRED.

E. OPERATIONS AND MAINTENANCE MANUALS: PROVIDE MAINTENANCE AND OPERATIONS DATA FOR ALL ELECTRICAL EQUIPMENT AND SIGNAL AND COMMUNICATIONS SYSTEMS. THREE COPIES ARE REQUIRED.

F. RECORD DRAWINGS: CORRECTIONS AND CHANGES MADE DURING THE PROGRESS OF THE WORK SHALL BE NEATLY RECORDED AS ACTUALLY INSTALLED FOR AS-BUILT RECORDS. SUBMIT TO THE ARCHITECT UPON PROJECT COMPLETION.

G. CERTIFICATES OF INSPECTION: SUBMIT SIGNED-OFF PERMITS FROM THE CODE ENFORCING AGENCIES TO THE OWNER UPON PROJECT COMPLETION.

H. PRODUCT LISTING OR LABELING: ALL ELECTRICAL EQUIPMENT SHALL BE LISTED AND LABELED BY UNDERWRITERS' LABORATORIES, INC.

I. MATERIAL AND EQUIPMENT: ALL MATERIALS AND EQUIPMENT SHALL BE NEW UNLESS NOTED OTHERWISE. PROTECT ALL MATERIALS AND EQUIPMENT FROM DAMAGE OR CORROSION.

J. CUTTING AND PATCHING: PROVIDE ALL REQUIRED CUTTING AND PATCHING FOR THE ELECTRICAL WORK.

K. EXISTING CONDITIONS

- 1. GENERAL: SPECIFIC SCOPE OF DEMOLITION WORK AND OPERATING CONDITIONS TO BE ENCOUNTERED SHALL BE VERIFIED BY ON-SITE REVIEW PRIOR TO SUBMITTING BID. DEMOLITION WORK IN GENERAL IS NOTED OR SHOWN ON THE DOCUMENTS BASED UPON AVAILABLE DRAWINGS OF RECORD AND MAY NOT SHOW THE ACTUAL CONDITIONS AS THEY PRESENTLY EXIST.
2. OWNER-RETAINED EQUIPMENT: THE OWNER MAY WISH TO RETAIN CERTAIN SPECIFIC ITEMS SCHEDULED FOR DEMOLITION. THE CONTRACTOR SHALL CAREFULLY REMOVE THESE ITEMS, PROVIDE PROTECTION AND PACKAGING AS MAY BE REQUIRED TO PROTECT THE EQUIPMENT AND TURN OVER SOLID EQUIPMENT TO THE OWNER AT A PLACE DESIGNATED ON THE JOBSITE. ANY EQUIPMENT THAT THE OWNER DOES NOT DESIRE TO RETAIN SHALL BECOME THE PROPERTY OF THE CONTRACTOR AND BE REMOVED FROM THE SITE.

3. UNUSED CONDUIT AND WIRING: ALL UNUSED CONDUCTORS RESULTING FROM THIS PROJECT SHALL BE REMOVED. ALL UNUSED CONDUIT SHALL BE REMOVED EXCEPT WHERE LOCATED IN OR ABOVE EXISTING CONSTRUCTION WHICH IS NOT BEING ALTERED AND WOULD REQUIRE REMOVAL AND REPLACEMENT OF THE EXISTING CONSTRUCTION.

4. EXISTING TEL/DATA CABLES AND OUTLETS: PROVIDE DEMOLITION OF EXISTING VOICE DATA OUTLETS EXCEPT WHERE OTHERWISE SHOWN. VERIFY EXTENT OF WORK PRIOR TO SUBMITTING BID. PROPERLY SUPPORT AND MAINTAIN IN SERVICE ANY REMAINING VOICE/DATA SYSTEM WIRING INSTALLED EXPOSED ABOVE SUSPENDED CEILINGS WITHIN THE PROJECT AREA. SECURE CABLES TO STRUCTURE ABOVE USING THE WRAPS SECURED TO INDEPENDENT TIRES SUSPENDED FROM STRUCTURE ABOVE.

5. EXISTING RACEWAYS: PROPERLY SUPPORT ALL EXISTING RACEWAYS ABOVE SUSPENDED CEILINGS WHERE WORK IS TAKING PLACE. VERIFY EXTENT OF WORK PRIOR TO SUBMITTING BID.

L. CONTINUITY OF SERVICE: PERMANENTLY REROUTE OR RELOCATE EXISTING WIRING AND/OR EQUIPMENT WHICH IS IN CONFLICT WITH EXISTING BUILDING ALTERATIONS AND WHICH IS REQUIRED TO BE MAINTAINED IN USE.

M. REMOVAL AND REPLACEMENT OF EXISTING ACCESSIBLE CEILING PANELS, LIGHTING FIXTURES AND SPEAKERS: REMOVE AND REINSTALL ALL NECESSARY CEILING PANELS, LIGHTING FIXTURES, SPEAKERS AND OTHER EXISTING EQUIPMENT IN EXISTING ACCESSIBLE CEILINGS AS REQUIRED TO INSTALL THE ELECTRICAL WORK.

N. ANCHORAGE AND BRACING: PROVIDE COMPLETE SEISMIC ANCHORAGE AND BRACING FOR THE LATERAL AND VERTICAL SUPPORT OF CONDUIT AND ELECTRICAL EQUIPMENT AS REQUIRED BY THE INTERNATIONAL BUILDING CODE.

O. FIRESTOPPING: PROVIDE FIRESTOPPING FOR ALL PENETRATION IN RATED WALLS, CEILINGS AND FLOORS.

P. PAINTING: PAINT ALL EXPOSED RACEWAYS, EXCEPT SMR, IN FINISHED AREAS TO MATCH ADJACENT SURFACES.

Q. INSTRUCTION: CONTRACTOR SHALL INSTRUCT THE OWNER IN THE USE AND OPERATION OF ALL SYSTEMS INSTALLED UNDER THE SCOPE OF THIS CONTRACT.

R. OWNER FURNISHED EQUIPMENT: PROVIDE COMPLETE ELECTRICAL SERVICE AND CONNECTION TO ALL OWNER-FURNISHED EQUIPMENT.

260519 - CONDUCTORS AND CABLES

A. WIRE AND CABLE:

- 1. BRANCH CIRCUITS: TYPE THHN OR THWN, 600-VOLT INSULATION, STRANDED COPPER CONDUCTOR. MINIMUM CONDUCTOR SIZE:
a. NEUTRAL: #12 AWG
b. GROUND: #12 AWG
c. PHASE CONDUCTORS (MORE THAN SIX IN A RACEWAY): #10 AWG
d. PHASE CONDUCTORS (SIX OR LESS IN A RACEWAY): #12 AWG
2. FEEDERS: FEEDERS SHALL BE SIZED AS SHOWN ON THE DRAWINGS AND COLOR-CODED IN ACCORDANCE WITH LIST BELOW. MAKE NO SPLICES UNLESS SHOWN ON THE PLANS.
3. COLOR CODE WIRE IN ACCORDANCE WITH THE CODING SHOWN BELOW. POWER SYSTEMS CONDUCTORS ARE IDENTIFIED AS FOLLOWS:
PHASE A: BLACK
PHASE B: RED
PHASE C: BLUE
NEUTRAL: WHITE
GROUND: GREEN
408Y/277V: BROWN
ORANGE
YELLOW
GRAY
GREEN
TRAVELERS: YELLOW (FOR 3- AND 4-WAY SWITCHING)
CONTROLS: BLACK WITH WIRE NUMBERS ON EACH CONDUCTOR
4. SPLICES AND TERMINATIONS: LIGHTING AND RECEPTACLE BRANCH CIRCUIT CONDUCTORS UP TO NO. 10 AWG SHALL BE SPLICED WITH WING NUT TYPE CONNECTORS.

260526 - GROUNDING AND BONDING FOR ELECTRICAL SYSTEMS

A. GENERAL: PROVIDE THROUGH THE ENTIRE ELECTRICAL SYSTEM, A SEPARATE GREEN EQUIPMENT GROUNDING CONDUCTOR SHALL BE PROVIDED IN ALL LIGHTING AND POWER RACEWAYS

B. BONDING: INSULATED GROUNDING BUSHINGS SHALL BE INSTALLED TO BOND ALL FEEDER CONDUITS TO THE SWITCHBOARD GROUND BUS OR PANEL GROUND BUS AT BOTH ENDS OF FEEDER RACEWAYS. INSULATED GROUNDING BUSHINGS SHALL BE INSTALLED TO BOND ALL FEEDER CONDUITS TO THE GROUND BUS OR PANEL ENCLOSURES AT BOTH ENDS OF THE RUNS.

C. NEUTRAL GROUNDING: THE NEUTRAL POINT OF ALL TRANSFORMERS SHALL BE SOLIDLY GROUND TO THE GROUNDING SYSTEM AND TRANSFORMER ENCLOSURE WITH CODE SIZE GROUND CONDUCTORS. THE NEUTRAL BUS IN EACH PANELBOARD SHALL BE ISOLATED FROM THE GROUND. THE NEUTRAL SHALL BE GROUND ONLY AT A SINGLE POINT AT THE MAIN SWITCHBOARD OR AT SEPARATELY DERIVED SYSTEM TRANSFORMERS.

D. RECEPTACLE GROUNDING: CONNECT THE GROUND TERMINAL OF ALL RECEPTACLES BY UTILIZING A SEPARATE GROUNDING CONDUCTOR BETWEEN THE RECEPTACLE GROUNDING SCREW AND THE GROUND CONDUCTOR PROVIDED IN THE BRANCH CIRCUIT. INTEGRAL MOUNTING STRAPS WITHIN THE RECEPTACLE CONNECTED TO THE DEVICE MOUNTING STRAPS ARE NOT APPROVED AS A GROUNDING METHOD.

E. FLEXIBLE CONDUIT GROUNDING: PROVIDE A SEPARATE GROUNDING CONDUCTOR IN ALL FLEXIBLE CONDUIT RUNS INCLUDING WATER TIGHT FLEXIBLE CONDUIT WITH INTEGRAL GROUNDING STRAPS. INSTALL GROUND CONDUCTOR INSIDE CONDUIT WITH UNGROUNDED CONDUCTORS.

F. GROUND CONNECTIONS: GROUND CONNECTIONS TO BUILDING STEEL, GROUND RODS AND CABLE TOPS SHALL UTILIZE AN EXOTHERMIC WELDING PROCESS. CADWELD, ERICO PRODUCTS, INC., OR APPROVED EQUAL.

260533 - RACEWAY AND BOXES FOR ELECTRICAL SYSTEMS

A. RACEWAYS

- 1. ELECTRICAL METALLIC TUBING (EMT): STEEL-SCREW TYPE. FITTINGS TWO INCHES AND LARGER SHALL CONTAIN DUAL SET-SCREWS ON EACH SIDE OF THE COUPLING.
2. FLEXIBLE METALLIC CONDUIT: GALVANIZED STEEL, SECURELY INTERLOCKED.
3. MC CABLE - CONCEALED IN WALLS ONLY.

B. FITTINGS

- 1. ELECTRICAL METALLIC TUBING (EMT): STEEL-SCREW TYPE. FITTINGS TWO INCHES AND LARGER SHALL CONTAIN DUAL SET-SCREWS ON EACH SIDE OF THE COUPLING.
2. FLEXIBLE METALLIC CONDUIT: STEEL, ONE- OR TWO-SCREW CLAMP TYPE.
3. CONDUIT STRAPS: HEAVY DUTY, TWO-HOLE PRESSED STEEL.
4. OUTLET AND DEVICE BOXES:

a. INTERIOR SURFACE-MOUNTED IN UNFINISHED AREAS: ONE-PIECE PRESSED STEEL, ELECTRO-GALVANIZED, SIZE AND DEPTH REQUIRED BY CODE, EXCEPT 4-INCH SQUARE OR 4-INCH OCTAGONAL MINIMUM.

b. INTERIOR FLUSH-MOUNTED: SAME AS ABOVE EXCEPT PROVIDED PLASTER RING EXTENSION TO FINISHED SURFACE.

5. JUNCTION AND PULL BOXES FOR INTERIOR AREAS: STEEL, SCREW COVER, CODE GAUGE AND SIZE. LARGE JUNCTION AND PULL BOXES SHALL BE FABRICATED SHEET STEEL WITH BAKED ENAMEL FINISH AND RETURN FLANGE WITH SCREW RETAINED COVER.

C. EXECUTION

1. GENERAL:
a. COORDINATION: THE CONTRACTOR SHALL REVIEW ALL DRAWINGS, DETAILS, AND ELEVATIONS PRIOR TO ROUGH-IN. WHERE EQUIPMENT IS FURNISHED BY OTHERS, THE CONTRACTOR SHALL REVIEW ALL DRAWINGS, DETAILS AND ELEVATIONS PRIOR TO ROUGH-IN. WHERE EQUIPMENT IS FURNISHED BY OTHERS, THE CONTRACTOR SHALL ASCERTAIN THE PROPER VOLTAGE, LOAD AND CONNECTION REQUIREMENTS PRIOR TO ROUGH-IN.

b. MATERIALS: ALL MATERIALS OF A SPECIFIC TYPE SHALL BE PROVIDED BY THE SAME MANUFACTURER THROUGHOUT THE PROJECT.

2. RACEWAYS: INSTALL RACEWAY TYPES AND SIZES AS LISTED BELOW.
a. ELECTRICAL METALLIC TUBING (EMT): ALL INTERIOR AREAS. MAY BE USED FOR FEEDERS WITH INTEGRAL GREEN GROUND CONDUCTOR.
b. FLEXIBLE METALLIC CONDUIT: RECESSED FIXTURE CONNECTIONS, INTERIOR CONCEALED EQUIPMENT CONNECTIONS, EXPANSION JOINTS AND SOUND CONTROL. NOT TO BE USED FOR EXPOSED INSTALLATIONS WITHIN THE FINISHED AREAS OF THE BUILDING.

c. MINIMUM RACEWAY SIZE SHALL BE 3/4 INCH, EXCEPT FOR RACEWAYS WITH NO MORE THAN THREE #12 AWG CONDUCTORS WHICH MAY BE 1/2 INCH.

D. INSTALLATION:

1. CONCEALMENT: ALL RACEWAYS SHALL BE CONCEALED IN FINISHED AREAS. WHERE EXISTING WALL SURFACES ARE INACCESSIBLE, SURFACE METAL RACEWAYS FOR THESE EXCEPTIONS MAY BE PROVIDED WHEN APPROVED.

2. EXPOSED RACEWAYS: INSTALL EXPOSED RACEWAYS AS HIGH AS POSSIBLE, ABOVE DUCTWORK, PARALLEL OR AT RIGHT ANGLES TO BUILDING LINES.

3. EXPANSION AND EARTHQUAKE JOINTS. RACEWAYS SHALL NOT BE INSTALLED IN CONCRETE SLAB OR WALL CONSTRUCTION WHEN PASSING THROUGH AN EXPANSION OR EARTHQUAKE JOINT.

4. ROUTING: ALL RACEWAYS SHALL BE INSTALLED PARALLEL OR AT RIGHT ANGLES TO THE BUILDING CONSTRUCTION UNLESS PROHIBITED BY A PHYSICAL OBSTRUCTION.

5. RACEWAY SUPPORTS: RACEWAYS SHALL BE SUPPORTED WITH HEAVY-DUTY, ONE-HOLE, PRESSED STEEL STRAPS ON INTERIOR SURFACES. SUPPORT PENDANT-MOUNTED RACEWAYS ON 3/8-IN ROD WITH PEAR-SHAPED HANGER OR TRAPEZE-TYPE HANGER WITH 3/8-INCH ROD (MINIMUM) AND 1-5/8-INCH SQUARE PREFORMED CHANNEL AND PIPE CLAMPS. PARALLEL, SURFACE-MOUNTED RACEWAYS SHALL BE SUPPORTED FROM 1-5/8-INCH SQUARE PREFORMED CHANNEL AND PIPE CLAMPS. ALL FITTINGS AND SUPPORTS SHALL BE HOT-DIP GALVANIZED IN EXTERIOR AREAS.

6. INDEPENDENT SUPPORT: CONDUITS SHALL NOT BE SUPPORTED FROM THE CEILING SUSPENSION SYSTEM, DUCTS, PIPES OR OTHER SYSTEMS FOREIGN TO THE ELECTRICAL INSTALLATION. THE ENTIRE ELECTRICAL INSTALLATION SHALL BE KEPT INDEPENDENT FROM ANY OTHER TRADE.

7. PULLBOXES WITH COVERS: SHALL BE PROVIDED AS SHOWN ON THE DRAWINGS OR AS REQUIRED BY CODE. ALL PULLBOXES SHALL BE LOCATED SO AS TO BE ACCESSIBLE.

8. FLEXIBLE CONDUIT: SHALL BE USED ONLY FOR LIGHTING FIXTURE PIGTAILS IN ACCESSIBLE CEILINGS, FLUSH-MOUNTED SPEAKER PIGTAILS IN ACCESSIBLE CEILINGS, SOUND CONTROL, MOTOR CONNECTIONS AND AT BUILDING EXPANSION JOINTS AS SPECIFIED. ANY OTHER PROPOSED USE OF FLEXIBLE CONDUIT MUST BE APPROVED PRIOR TO INSTALLATION.

9. EMPTY RACEWAYS: PROVIDE A NYLON PULL STRING IN ALL EMPTY RACEWAYS.

10. BOXES AND FITTINGS:

a. GENERAL: BOXES SHALL BE SUPPORTED SECURELY AND INDEPENDENTLY. MOUNT BOXES ON BUILDING SURFACES OR SUPPORT WITH TRAPEZE HANGER AS DESCRIBED IN RACEWAY INSTALLATION. JUNCTION BOXES SHALL NOT BE USED UNLESS THE NUMBER OF BENDS, PULLING LENGTH, OR CIRCUIT REQUIREMENTS NECESSITATES THEIR INSTALLATION. JUNCTION OR PULLBOX OPENINGS MUST BE ACCESSIBLE.

b. SOUND CONTROL: WHERE BOXES ARE MOUNTED IN A COMMON WALL, THEY SHALL WHEREVER POSSIBLE, BE OFFSET HORIZONTALLY SO THAT THEY ARE NOT MOUNTED BACK-TO-BACK. CONNECT OFFSET BOXES WITH FLEXIBLE CONDUIT NOT TO EXCEED 18 INCHES IN LENGTH.

260553 - IDENTIFICATION FOR ELECTRICAL SYSTEMS

A. GENERAL: LABEL ALL JUNCTION BOXES, TERMINAL CABINETS, ETC., WITH THE CIRCUIT NUMBER OR LOW-VOLTAGE SYSTEM CONTAINED WITHIN.

B. EQUIPMENT NAMEPLATES: SHALL BE ENGRAVED IN 1/16 INCH THICK PHENOLIC LETTERS A MINIMUM OF 3/16 INCH HIGH. COLORING SHALL BE WHITE LETTERS ON BLACK BACKGROUND.

260923 - LIGHTING CONTROL DEVICES

A. OCCUPANCY SENSOR: DUAL TECHNOLOGY TYPE, CEILING OR WALL SWITCH MOUNTED. USE A COMBINATION OF PASSIVE INFRARED AND ULTRASONIC DETECTION METHODS. MANUFACTURER: HUBBELL OR APPROVED EQUAL.

260926 - LIGHTING CONTROL PANELBOARDS

A. GENERAL:

1. THE WORK COVERED IN THIS SECTION IS SUBJECT TO ALL OF THE REQUIREMENTS IN THE GENERAL CONDITIONS OF THE SPECIFICATIONS. CONTRACTOR SHALL COORDINATE ALL OF THE WORK IN THE SECTION WITH ALL OF THE TRADES COVERED IN OTHER SECTIONS OF THE SPECIFICATION TO PROVIDE A COMPLETE AND OPERABLE SYSTEM.

2. SYSTEM DESCRIPTION: INSTALL A LIGHTING CONTROL SYSTEM CONSISTING OF RELAY/CONTACTOR PANEL(S), CONTROL SWITCHES, OCCUPANCY SENSORS, PHOTOCELLS AND OTHER CONTROLLING DEVICES. THE DEVICES ARE CONNECTED BY LOW-VOLTAGE AND LINE-VOLTAGE WIRING. THE GENERAL OPERATION OF LIGHTING AND CONTROLLED LOADS SHALL INCLUDE:

- a. INTERIOR LIGHTING, MANUAL SWITCH, PHOTOCELL AND OCCUPANCY SENSOR CONTROL ON/OFF WITH AUTOMATIC TIME SCHEDULED SHUT OFF.
b. SCHEDULED ON-OFF LOADS: TIME ON, TIME OFF BY AUTOMATIC TIME SCHEDULE WITH AFTER HOUR OVERRIDE CAPABILITY AND SHUTOFF.

B. PRODUCTS:

1. RELAY PANELS:
a. DESCRIPTION: LIGHTING CONTROL PANELS SHALL BE UL LISTED AND CONSIST OF THE FOLLOWING:
1) ENCLOSURE/TUB: NEMA 1.
2) COVER: FLUSH, HINGED, LOCKABLE AND SHALL RESTRICT ACCESS TO LINE VOLTAGE SECTION.

3) INTERIOR: BARRIER FOR SEPARATION OF HIGH-VOLTAGE (CLASS 1) AND LOW-VOLTAGE (CLASS 2) WIRING. IT SHALL INCLUDE INTELLIGENCE BOARDS, POWER SUPPLY AND CONTROL RELAYS. CLOCK DISPLAY AND KEYPAD SHALL BE MOUNTED ON INTERIOR CABINET DOOR FOR EASY USER ACCESS AND PROGRAMMING.

b. FEATURES;

1) PANEL SHALL ACCEPT UP TO SIXTEEN SINGLE POLE RELAYS. RELAYS SHALL BE INDIVIDUAL LATCHING RELAYS WITH 20 AMP LOAD CONTACTS FOR BALLAST (INCLUDING HID, MAGNETIC OR ELECTRONIC TYPE BALLASTS), TUNGSTEN AND GENERAL PURPOSE LOADS. PROVIDED ISOLATED AUXILIARY CONTACTS FOR PILOT LIGHT SWITCHING. RELAYS SHALL USE QUICK CONNECTORS AND BE INDIVIDUALLY REPLACEABLE TO FACILITATE EASE OF USE.

2) WHERE INDICATED, PANELS SHALL PROVED SPACE WITHIN THE HIGH VOLTAGE SECTION OF THE ENCLOSURE TO ACCOMMODATE UP TO 12 MULTI-POLE CONTACTORS. TWO SECTIONS OF DIN RAIL MOUNTING SHALL BE PROVIDED AS STANDARD. NO FIELD DRILLING OR FABRICATION SHALL BE REQUIRED FOR MOUNTING CONTACTORS OR OTHER ACCESSORIES WITHIN THE ENCLOSURE.

2. APPROVED MANUFACTURES:

- a. RELAY PANEL: HUBBELL CX162S162NM OR APPROVED EQUAL.
b. PHOTOCELL: HUBBELL LUXSTAT-LS
c. OVERRIDE SWITCH: HUBBELL LVSVM2PL-COLOR
d. OCCUPANCY SENSOR SWITCH: HUBBELL LHUSS1-COLOR

262726 - WIRING DEVICES

A. WIRING DEVICES

- 1. APPROVED MANUFACTURES: HUBBELL, P & S OR LEVTON. ALL PART NUMBERS REFER TO HUBBELL.
2. COLOR OF SWITCH HANDLES: BLACK IN COLOR, WHITE IN COLOR IF ON WHITE SURFACE (PAINT OR TILE).
3. RECEPTACLE FACES: BLACK IN COLOR, WHITE IN COLOR IF ON WHITE SURFACE (PAINT OR TILE) FOR NORMAL POWER.

B. RECEPTACLES

- 1. DUPLEX RECEPTACLES: SPECIFICATION-GRADE, 20 AMPERE, 125-VOLT, GROUNDED TYPE, HBL5362 SERIES.
2. DOUBLE DUPLEX RECEPTACLES: SPECIFICATION-GRADE, 20-AMPERE, 125-VOLT, GROUNDED TYPE, HBL5362 SERIES.
3. GROUND FAULT INTERRUPTION RECEPTACLE: SPECIFICATION-GRADE, 20-AMPERE, 120-VOLT, CLASS A, 5-MILLIAMPERE SENSITIVITY, GF5362 SERIES.

e. SWITCHES

- 1. SINGLE-POLE SWITCHES: SPECIFICATION-GRADE, 20AMPERE, 1221 SERIES.
2. THREE-WAY SWITCHES: SPECIFICATION-GRADE, 20-AMPERE, 1223 SERIES.
3. OCCUPANCY WALL SWITCHES: SPECIFICATION-GRADE, 20-AMPERE WITH INTEGRAL PRECISION INFRARED OCCUPANCY SENSOR.
4. LOW VOLTAGE WALL SWITCHES: HUBBELL LOW VOLTAGE SWITCH LVSVM SERIES OR APPROVED EQUAL.
5. LINE VOLTAGE DIMMING SWITCHES: SPECIFICATION GRADE, 800W SLIDE DIMMING SWITCH. LEVTON RENIOR SERIES OR APPROVED EQUAL.
6. TIMER SWITCH: LEVTON WPT42-1P.

D. DEVICE PLATES: BLACK IN COLOR, WHITE IN COLOR IF ON WHITE SURFACE (PAINT OR TILE), SMOOTH, HIGH-IMPACT THERMOPLASTIC, P&S/SIERRA OR APPROVED EQUAL.

E. EXECUTION

- 1. GENERAL: INSTALL DEVICES LEVEL, PLUMB AND SQUARE WITH BUILDING LINES.
2. SWITCH LOCATIONS: LOCATE SWITCHES 6 INCHES FROM DOOR CASING.
3. RECEPTACLE MOUNTING HEIGHT: + 18" TO THE CENTERLINE OF THE BOX UNLESS OTHERWISE NOTED.
4. SWITCHES: + 48" TO THE CENTERLINE OF THE BOX.

262416 - PANELBOARDS

A. 480Y/277V OR 208Y/120V, COPPER BUS BOLT-ON MOLDED CASE THERMAL MAGNETIC TYPE CIRCUIT BREAKERS HAVING A MINIMUM INTERRUPTING RATING OF 14,000 AMPERE FOR 480Y/277V PANELS AND 10,000 AMPERE FOR 208Y/120V PANELS.

B. MOUNTING: WHERE PANELBOARDS ARE TO BE INSTALLED AGAINST PLASTERBOARD WALLS, PROVIDE SEPARATE SUPPORT CHANNELS SECURED TO BLOCKING BETWEEN STEEL STUDS. COORDINATE BLOCKING WORK WITH THE GYPSUM WALLBOARD CONTRACTOR. PANELS SHALL NOT BE SECURED DIRECTLY TO GYPSUM WALLBOARD MATERIAL.

C. PROVIDE SHORT CIRCUIT STUDY OBTAINING AVAILABLE FAULT FROM SERVING UTILITY. PROVIDE DOCUMENTATION TO DEMONSTRATE THAT ALL SUBMITTED EQUIPMENT AND PROTECTIVE DEVICES MEET OR EXCEED AVAILABLE FAULT AT POINT OF APPLICATION. PROVIDE EQUIPMENT IN COMPLIANCE WITH AVAILABLE FAULT.

D. PERFORM AN ARC-FLASH STUDY IN ACCORDANCE WITH THE NEC AND AHJ TO DETERMINE INCIDENT ENERGY EXPOSURE, FLASH PROTECTION BOUNDARY, SHOCK HAZARD APPROACH LIMITS AND REQUIRED PPE LEVELS. PROVIDE REQUIRED DATA FOR APPROVED ARC-FLASH WARNING LABELS ON ALL PANELBOARDS AND DISCONNECT SWITCHES. PROVIDE WARNING LABELS ON ALL PANELBOARDS.

E. PROVIDE NAMEPLATE FOR EACH PANELBOARD PER 260553 ELECTRICAL IDENTIFICATION.

F. APPROVED MANUFACTURERS: SQUARE D, GENERAL ELECTRIC OR SIEMENS.

G. CURRENT-LIMITING PANELBOARD: LEVTON TRACK LIGHT LIMITING PANEL.

1. PROVIDE LEVTON G16F1-106 CURRENT LIMITING PANELBOARD. BREAKER SIZES INDICATED ON CURRENT-LIMITING PANELBOARD SCHEDULE, SHEET E-601.

262816 - ENCLOSED SWITCHES AND CIRCUIT BREAKERS

A. APPROVED MANUFACTURERS: SQUARE D, GENERAL ELECTRIC OR SIEMENS.

B. SINGLE-PHASE MOTOR: MOTORS 1/3 HP OR LESS PROVIDE WITH TOGGLE-TYPE, 20-AMP, 120-VOLT RATING, SPECIFICATION-GRADE DISCONNECT SWITCHES.

C. THREE-PHASE MOTOR: MOTORS 1/2 HP AND LARGER PROVIDE WITH AMP AND VOLTAGE RATING AS REQUIRED, SPECIFICATION-GRADE DISCONNECT SWITCHES. NEMA RATED PER ENVIRONMENT.

D. EQUIPMENT DISCONNECTS: SHALL BE FUSED OR NONFUSED AS REQUIRED BY THE EQUIPMENT MANUFACTURER, RATED AT 125 PERCENT OF FULL LOAD NAMEPLATE AMPERAGE OR RATED HORSEPOWER, HEAVY-DUTY TYPE.

E. DISCONNECTS: PROVIDE DISCONNECTS AT ALL MOTORS AND OTHER EQUIPMENT ITEMS UNLESS THE EQUIPMENT HAS A SELF-CONTAINED, CODE APPROVED DISCONNECTING METHOD. EQUIPMENT DISCONNECTS SHALL BE FUSED OR NON-FUSED AS REQUIRED BY THE EQUIPMENT MANUFACTURER.

262813 - FUSES

A. MANUFACTURERS: BUSSMAN, FERREZ SHAWMUT.

B. FUSES: PROVIDE 200,0-00 AIC, CURRENT LIMITING, UL TIME DELAY FUSES AS FOLLOWS:
1. FEEDERS 600 AMPS AND LESS: CLASS RK-1, LPN-RK FOR 250-VOLT, DUAL ELEMENT, CLASS RK-1, LPS-RK FOR 600 VOLT, DUAL ELEMENT.

2. MOTOR CIRCUIT 600 VOLTS AND BELOW: CLASS RK-1 OR CLASS J SIZED AT 125 PERCENT FLC OF MOTOR.

C. MOTOR CONTROLS

1. APPROVED MANUFACTURERS: SQUARE D, GENERAL ELECTRIC OR SIEMENS.

2. MANUAL STARTERS: TOGGLE TYPE, LOCKABLE IN THE OFF POSITION, OVERLOAD PROTECTION, PILOT LIGHT AND NEMA 1 ENCLOSURE.

D. MOTOR CONTROLS AND EQUIPMENT CONNECTIONS:

1. GENERAL: PROVIDE ALL LINE VOLTAGE WIRING AND CONNECTIONS TO EQUIPMENT AND MOTORS AS SHOWN ON THE PLANS, DIAGRAMS OR SPECIFIED HEREIN. OBTAIN ALL NECESSARY ELECTRICAL AND PHYSICAL INFORMATION FROM THE TRADE PROVIDING THE EQUIPMENT, PRIOR TO ROUGH-IN AND ADJUST INSTALLATION REQUIREMENTS AS NECESSARY FOR A COMPLETE AND OPERABLE SYSTEM.

2. MOTOR CONTROLS, SEPARATELY MOUNTED; PROVIDE SEPARATELY MOUNTED MOTOR STARTING EQUIPMENT AS SHOWN OR NOTED. COORDINATE LOCATION AND INTERLOCKING WITH TEMPERATURE CONTROLS CONTRACTOR. VERIFY MOTOR HORSEPOWER SIZE OR FULL-LOAD AMPERAGE PRIOR TO ORDERING OVERLOAD HEATERS AND SIZE UNITS IN ACCORDANCE WITH THE NATIONAL ELECTRICAL CODE.

265100 - INTERIOR LIGHTING

A. GENERAL: REFER TO THE FIXTURE SCHEDULE ON THE CONTRACT DRAWINGS.

B. LABELS: PROVIDE UL LABELS ON ALL NEW FIXTURES. LIGHTING FIXTURES INSTALLED IN DAMP OR WET LOCATIONS SHALL HAVE LABEL "SUITABLE FOR DAMP LOCATIONS" OR "SUITABLE FOR WET LOCATIONS."

C. LAMPS:

- 1. APPROVED MANUFACTURERS: OSRAM/SYLVANIA, GE, OR PHILIPS. SEE FIXTURE SCHEDULE FOR ADDITIONAL INFORMATION.
2. PROVIDE FOR EACH FIXTURE, NUMBER, SIZE AND TYPE AS REQUIRED BY FIXTURE OR AS INDICATED ON THE DRAWINGS.

3. FLOURESCENT: PROVIDE EACH FIXTURE WITH THE NUMBER, SIZE AND TYPE AS REQUIRED BY FIXTURE OR INDICATED ON DRAWINGS. LAMP COLOR SHALL BE 3500K WITH A COLOR RENDERING INDEX (CRI) OF 80 OR BETTER. EACH LAMP SHALL HAVE LESS THAN 10 MG OF MERCURY. ALL LAMPS OF A SPECIFIC TYPE ARE TO BE OF THE SAME MANUFACTURER. THERE SHALL BE NO PERCEPTIBLE COLOR DIFFERENCES BETWEEN LAMPS.

4. LED: PROVIDE EACH FIXTURE WITH THE NUMBER, SIZE AND TYPE AS REQUIRED BY THE FIXTURE OR INDICATED ON THE DRAWINGS.

D. BALLASTS:

- 1. APPROVED MANUFACTURERS: ADVANCE, MAGNETEK OR LUTRON.
2. ELECTRONIC FLOURESCENT BALLASTS: BALLASTS SHALL BE TYPE REQUIRED FOR THE NUMBER AND TYPE OF LAMPS IN EACH CASE. EACH FIXTURE SHALL HAVE ITS OWN BALLAST. REMOTE, TANDEM OR MASTER/SLAVE-WIRED BALLASTS SHALL NOT BE UTILIZED. ALL BALLASTS SHALL BE E-HPF -ETL AND UL APPROVED. ALL FLOURESCENT BALLASTS SHALL OPERATE AT 20 KHZ OR GREATER AND CLASS P THERMALLY PROTECTED RESET TYPE TO MEET SECTION 410-73 (E) OF THE NATIONAL ELECTRICAL CODE AND BE CSA CERTIFIED. BALLAST FACTOR FOR ALL LAMP/BALLAST COMBINATIONS SHALL EXCEED .90 FOR ALL CASES. BALLAST SHALL COMPLY WITH FCC REQUIREMENTS UNDER PART 18, CLASS A. ALL BALLASTS SHALL BE GUARANTEED BY THE MANUFACTURER FOR A PERIOD OF TWO YEARS AFTER INSTALLATION. RAPID-START BALLASTS SHALL BE CERTIFIED TO HAVE AN 'A' SOUND RATING. THE VOLTAGE RATING OF THE BALLAST SHALL BE AS REQUIRED BY THE SERVICE VOLTAGE.

271500 - COMMUNICATIONS HORIZONTAL CABLING

A. SCOPE: CONTRACTOR SHALL FURNISH AND INSTALL ALL MATERIALS FOR A COMPLETE, FUNCTIONAL DATA AND VOICE COMMUNICATIONS SYSTEM INFRASTRUCTURE IN ACCORDANCE WITH THIS SPECIFICATIONS AND THE CONTRACT DRAWINGS.

B. INSTALLATION SHALL INCLUDE CABLE (TWISTED-PAIR COPPER), INTERCONNECT PATCH EQUIPMENT, CONNECTORS, JUMPERS, WIRING BLOCKS AND TELECOMMUNICATIONS OUTLETS.

C. UPON COMPLETION OF INSTALLATION THE CONTRACTOR SHALL TEST ALL COPPER PATHWAYS AND RECORD THE TEST RESULTS.

D. PROVIDE THREE JACKS PER OUTLET LOCATIONS AS SHOWN ON PLANS. USE SINGLE GANG, FLUSH MOUNT FACEPLATES. PROVIDE ONE CATEGORY 5E CABLE PER JACK UNLESS OTHERWISE INDICATED. TERMINATE WITH CATEGORY 5E INSERT JACKS UNLESS OTHERWISE INDICATED. PROVIDE UNIPRISE #CC00205XX (XX=COLOR) MODULAR JACKS FACEPLATES SHALL BE WHITE, COMMSCOPE #108168543.

E. PROVIDE SUPERIOR ESSEX DATA GAIN #66-240-2B DATA STATION CABLE, 4-PAIR, 24AWG, UTP, UO/NEC CMP OR EQUIVALENT.

F. ALL CABLES ROUTED ON BACKBOARDS SHALL BE SUPPORTED USING NYLON ZIP TIE MOUNTS THAT ARE SECURELY MOUNTED TO THE BACK BOARD BY SCREWS IN ADDITION TO THE ADHESIVE BACK.


G. DATA/VOICE TERMINAL BACKBOARD SHALL BE 3/4" THICK PLYWOOD, APA EXTERIOR GRADE DOUGLAS FIR A-C, AND FIRE RETARDANT WITH FLAME SPREAD RATING NOT MORE THAN 25 WHEN TEST

# VENDOR LIST


VENDOR NAME/ CATEGORY	PRODUCT DESCRIPTION	CONTACT NAME	TITLE	CONTACT EMAIL	PHONE
<b>ACTIVE VENDORS</b>					
<b>AUDIO + LOW VOLTAGE</b>					
PAR TECH	CASH BOX, POS SCREEN, KDS SCREEN, BUMP BAR, CONTROL UNIT, EMV READER	CHRISTINA GRUCHY	ORDER ADMIN SPECIALIST	CHRISTINA_GRUCHY@PARTECH.COM	(800) 448-6505 X6310
		COREY CONKLIN	PROJECT MANAGER - PAR PAY	COREY_CONKLIN@PARTECH.COM	(561) 448-7381
POSRG	PRINTERS, POWER SOURCE, LOYALTY SCANNER	CONNOR WILFORD	PROJECT MANAGER	CWILFORD@POSRG.COM	(224) 622-8495
		JEREMY VARNEY	DIRECTOR OF RETAIL SALES	JVARNEY@POSRG.COM	(847) 526-9650 EXT.394
RTGPOS	PRINTERS, POWER SOURCE, LOYALTY SCANNER	JUSTIN KEENE		JUSTIN.KEENE@RTGPOS.COM	(314) 926-4663
		DIANA KILLIAN	CUSTOMER RELATIONSHIP MANAGER	DIANA.KILLIAN@RTGPOS.COM	(636) 680-8270
				MODPIZZA@RTGPOS.COM	
<b>BEER</b>					
MICRO MATIC	BEER KEGERATOR	KRISTINE LASCALA		KMLI@MICRO-MATIC.COM	(352) 593-2022
		LEAH HAAB		LKH@MICRO-MATIC.COM	
<b>CAMERAS, SECURITY + LOCKSMITH</b>					
DH PACE	SECURITY, RE-KEY	KATIE HANSEN	DEPARTMENT MANAGER	KATIE.HANSEN@DHPACE.COM	(816) 480-2609
			MOD ORDERS	MODPIZZA@DHPACE.COM	(888) 643-3667
			GC ORDERS	SECURITYSOLUTIONS@DHPACE.COM	(855) 237-3667
ENVYSION	SECURITY CAMERAS	HANNAH ROBERTS		HROBERTS@ENVYSION.COM	(720) 862-5481
		JOSHUA COX		JCOX@ENVYSION.COM	
IBEAM SYSTEMS	SECURITY CAMERAS DURING CONSTRUCTION	DEBBIE HARRIS		DEBBIE@IBEAMSYSTEMS.COM	(208) 473-2736
		CODY MECHAM		CODY@IBEAMSYSTEMS.COM	
PROTECTION 1 (ADT)	ALARM MONITORING	HANNAH COOK		HANNAHCOOK@ADT.COM	
		DENNIS SMITH	NATIONAL ACCOUNTS MANAGER	DENNISPSMITH@ADT.COM	(503) 367-0214
		HEIDI THOMPSON	SERVICE MANAGER	HEIDITHOMPSON@ADT.COM	(214) 277-7127
<b>CASEWORK</b>					
FCC	CASEWORK PACKAGE, OAK TABLE TOPS, FURNITURE	CHANDRA COUNTS	PROJECT COORDINATOR	CHANDRA.GRAVES@FCCFURN.COM	(541) 464-5211
				MOD@FCCFURN.COM	
		LAURA COBIAN		LAURA.COBIAN@FCCFURN.COM	(800) 322-7328 EXT. 271
		RUSS COOLEY	VP DEVELOPMENT/DESIGN	RUSS.COOLEY@FCCFURN.COM	(800) 322-7328
		BETH ANDERSON	INTERIOR DESIGNER	BETH.ANDERSON@FCCFURN.COM	(800) 322-7328 X238
		PRESTON OHARA	GENERAL MANAGER	PRESTON.OHARA@FCCFURN.COM	(800) 322-7328 X284
LOAD KING	CASEWORK PACKAGE	MARLENA SOPRA	DIRECTOR OF ACCOUNT DEVELOPMENT	MSOPRA@LOADKING.COM	(904) 633-7409
		PHIL BLACK		PBLACK@LOADKING.COM	
PIN	CASEWORK PACKAGE	CATHY INTIA	ACCOUNT MANAGER	CINTIA@PIN.COM	(972) 621-1200
WISCONSIN BUILT	CASEWORK PACKAGE	DAVID NIEMAN	ACCOUNT MANAGER	DAVID@WISCONSIN-BUILT.COM	(608) 764-3396
		JONATHAN UECKER	PROJECT MANAGER	JONATHANU@WISCONSIN-BUILT.COM	(608) 764-8661 EXT. 4335
<b>CONTRACTS + MISC</b>					
AIRGAS	CO2	NANCY DIAZ		MANNIE.DIAZ@AIRGAS.COM	(877) 717-4540 EXT.11254
		KALI KOSTAR		KALI.KOSTAR@AIRGAS.COM	
COCA-COLA	COKE MACHINE	JODIE GARLINGTON	OPERATIONS MANAGER	JGARLINGTON@COCA-COLA.COM	
		HANNAH KELLY	ACCOUNT COORDINATOR	HANKELLY@COCA-COLA.COM	(800) 531-2238 EXT. 2643
DCCONE	BANNERS	KARRI KELLER		KARRI.KELLER@DCCONE.COM	(206) 409-2052
				MODPIZZA@DCCONE.COM	
ECOLAB	DISHWASHER	ANA RODRIGUEZ	INSTALS/ORDERS	ANA.RODRIGUEZ@ECOLAB.COM	(800) 532-7732 EXT. 6933
KINETICO	WATER FILTRATION		CUSTOMER SUPPORT LINE (ORDERS & SERVICE)	COMMERCIAL@KINETICO.COM	(800) 321-5022
		JESSICA SLISHER	SYSTEMS 2, 2B & 3 ORDERS	JSLISHER@KINETICO.COM	(440) 321-6210
			SYSTEM 1 ORDERS FOR ED DON	CUSTOMER-SERVICE@SELECTOINC.COM	(800) 321-5022 #4
		DON GADSDEN	DESIGN & LAYOUT SUPPORT	DGADSDEN@KINETICO.COM	(416) 802-6250
		CASEY ROBINSON	FIELD TECH SUPPORT	CROBINSON@KINETICO.COM	(678) 708-6287
		JONATHAN KELLER	FIELD SERVICE DISPATCH	JKELLER@KINETICO.COM	(440) 564-4422
		TOM BEST	DIRECTOR - BUSINESS DEVELOPMENT	TBEST@KINETICO.COM	(630) 306-7670
		SHAY ASHLOCK	DIRECTOR - CUSTOMER EXPERIENCE	SASHLOCK@KINETICO.COM	(678) 899-5219
PFG	PRE-HEALTH	CENA COUPENS		CENA.COUPENS@PFG.COM	(971) 716-4741

SSDC	CLEANING AGENTS FOR DISHWASHER	STEVEN STRAW	PNW REGIONAL	STEVEN.STRAW@SSDCSOAP.COM	(385) 313-4339
<b>DRIVE THRU SPECIFIC</b>					
ENTOUCH SOLUTIONS	DRIVE THRU LOOP DETECTORS, HEADSETS	ERIC HERN	SALES	ERIC@ENTOUCHSOLUTIONS.COM	(503) 319-5272
<b>EQUIPMENT</b>					
CAPTIVEAIR	OVEN HOOD & DIRECT VENT	JON CLARKE	PROJECT MANAGER	JON.CLARKE@CAPTIVEAIR.COM	(425) 212-5996 EXT. 2
LENNOX	RTUS	KURT KIZEWSKI	NATIONAL ACCOUNT MANAGER	KURT.KIZEWSKI@LENNOXIND.COM	(719) 440-0827
			EQUIPMENT CUSTOMER SERVICE	LENNOXNATIONALACCOUNTS@LENNOXIND.COM	
			EMERGENCY REPLACEMENTS	NAEMERGENCYREPLACEMENTREQUESTS@LENNOXIND.COM	
			PARTS CUSTOMER SERVICE	CUSTOMERSERVICE@LENNOXIND.COM	
			TECHNICAL SUPPORT	NATIONALACCOUNTSTECHNICALSUPPORT@LENNOXIND.COM	
			BLDG. AUTOMATION TECHNICAL SUPPORT	CCAC@LENNOXIND.COM	
			APPLICATIONS	COMMERCIALAPPLICATIONSSUPPORT@LENNOXIND.COM	
ROLL-A-SHADE	WINDOW SHADES	SHANNEN ALBINA	PROJECT MANAGER	SHANNEN.ALBINA@ROLLASHADE.COM	(951) 245-5077 EXT. 140
		RIC BERG	VP BUSINESS DEVELOPMENT-NATIONAL	RIC.BERG@ROLLASHADE.COM	(951) 245-5077 X113
SMITH & GREENE (ED DON)	FRONT AND BACK OF HOUSE EQUIPMENT, SMALLWARES, SHELVING, FURNITURE	TRINA IVERSON	ACCOUNT MANAGER	TRINAIVERSON@DON.COM	(253) 258-3964
		LUBIA RODRIGUEZ	PROJECT MANAGER	LUBIARODRIGUEZ@DON.COM	(253) 258-3673
WOODSTONE	PIZZA OVEN	TRAVIS WALKER	REGIONAL SALES MANAGER	TRAVISW@WOODSTONE.NET	(360) 920-1060
<b>FINISHES</b>					
2 STONE	PRECAST CONCRETE VENEER	LISE BROWN	MANAGING DIRECTOR - DESIGN	LISE@2STONE.CA	(403) 236-3657
3M	GLAZING FILM	TINA DOMINGUEZ	SPECIALIST; BRANDING; DESIGN	TMDOMINGUEZ@MMM.COM	(415) 246-1847
9WOOD	SUSPENDED WOOD PANEL CEILING	STEVE KOVARIK	SALES & ARCHITECTURAL MGR	SKOVARIK@9WOOD.COM	(888) 767-9990
			ORDERING	SALES@9WOOD.COM	
ANN SACKS TILE	DECORATIVE TILE	CHRISTINE NEELY	ASSOCIATE DESIGN SALES CONSULTANT	CHRISTINE.NEELY@ANNSACKS.COM	(206) 441-8917 EXT. 42235
ANTHOLOGY WOODS	WOOD CLADDING	ANDREA WITKOWSKI	SALES REPRESENTATIVE	ANDREA@ANTHOLOGYWOODS.COM	(541) 227-5238 EXT. 700
ARMSTRONG FLOORING	RUBBER BASE PRODUCTS	STERLING DUNLAP	INSIDE SALES REPRESENTATIVE	SDUNLAP@ARMSTRONGFLOORS.COM	(717) 672-7415
BFC METALS	ONLINE ORDER SHELVING, CORNER GUARDS, CHAIR RAIL, TOP CAPS, TEA DISPENSER TAGS, UTENSIL RACK	KIRK KOONTZ	OWNER	KIRK.KOONTZ@BFCMETALS.COM	(206) 763-0530
		JESSICA SMITH	PROJECT MANAGER	JESSICA@BFCMETALS.COM	(206) 763-0530
BRIDGER STEEL	CORRUGATED METAL	JACOB HOUSMAN	NATIONAL SALES TEAM LEAD	JACOB.HOUSMAN@BRIDGERSTEEL.COM	(406) 813-5632
CEMENT TILE SHOP	CEMENT TILES	JAMIE ADDISON	CUSTOMER SERVICE	CUSTOMERSERVICE@CEMENTTILESHOP.COM	(800) 704-2701
CONSOLEDICE/ PROSOCO	SEALED CONCRETE FLOORS	JOHN MURPHY	TECHNICAL SPECIALIST	JOHN.MURPHY@PROSOCO.COM	(253) 363-2183
CONSTRUCTION SPECIALTIES	FAUX BRICK PANELS	JEN DAVIS	WEST TERRITORY SALES MANAGER	JDAVIS@C-SGROUP.COM	(619) 481-9588
CREATIVE PALETTE	FAUX BRICK PANELS, SUSPENDED CEILING SYSTEMS	VINCE FAIELLA	ACCOUNT MANAGER	VFAIELLA@CREATIVEPALETTEINC.COM	(614) 623-6444
DAL TILE	SUBWAY TILE, FLOOR TILE, DECORATIVE TILE	CARL CHITWOOD	ARCHITECTURAL SALES NW REGION	CARL.CHITWOOD@DALTILE.COM	(206) 854-6930
			NATIONAL ACCOUNTS	NATIONALACCOUNTS@DALTILE.COM	(877) 556-5728
DESIGN & DIRECT SOURCE	DECORATIVE TILE	SUZANNE SANING	SENIOR VICE PRESIDENT	SSANNING@DESIGNANDDIRECTSOURCE.COM	(503) 388-2044
		NICOLE CARRUTH	ASSOCIATE PROJECT MANAGER - WEST	NICOLE@DESIGNANDDIRECTSOURCE.COM	
EMSER TILE	DECORATIVE TILE	GILLIAN BARDIN	COMMERCIAL TERRITORY MANAGER	GILLIANBARDIN@EMSER.COM	(206) 390-1964
			ORDERS	MODPIZZA@EMSER.COM	
		KYLE STOKLEY	NATIONAL ACCOUNT MANAGER	KYLESTOKLEY@EMSER.COM	
EUROWEST	DECORATIVE TILE	GIUSEPPE COLUCCI	ARCHITECTURAL REPRESENTATIVE	GC@EUROWEST.COM	(714) 310-7934
JAMES HARDIE	HARDIEBACKER CEMENT BOARD	DAVE HUGHES	COMMERCIAL	DAVE.HUGHES@JAMESHARDIE.COM	(253) 315-5317
		JOHANN GUTIERREZ	WESTERN WA SALES MGR	JOHANN.GUTIERREZ@JAMESHARDIE.COM	(425) 306-3910
MARLITE	FRP	TOM LENOX	DIRECTOR OF SALES	TLENOX@MARLITE.COM	(330) 260-7608
MONICOLS	WIRE MESH	ALEX VICENS	CUSTOMER SERVICE SPECIALIST	ALEX.VICENS@MONICOLS.COM	(800) 237-3859 EXT. 3859
MOUNTAIN LUMBER	WOOD CLADDING	RICHARD BROTHERTON	SALES REPRESENTATIVE	RICHARD@REDSQUIRRELINTERIORS.COM	(360) 819-6085
		JASON EASTMAN	COMMERCIAL CONSULTANT	JASON.EASTMAN@MOUNTAINLUMBER.COM	(434) 985-3646
MUTUAL MATERIALS	SLIM BRICK CLADDING	MATT JOHNSON	RESIDENTIAL SALES REP	MJOHNSON@MUTUALMATERIALS.COM	(425) 452-2303
			ORDERS	(866) 576-8882	
NEMO TILE	DECORATIVE TILE	MILTANIA BROWN	ASD SALES SUPPORT SUPERVISOR	MBROWN@NEMOTILE.COM	(212) 477-1425 EXT. 256
		EMILY METRO	QUOTES / PRICING QUESTIONS	EMETRO@NEMOTILE.COM	(913) 485-3295


PANOLAM	RUBBER BASE	SHERIDAN BOTOS	SPECIFICATION MANAGER	SHERIDAN_BOTOS@PANOLAM.COM	(510) 730-9200
PIONEER MILLWORKS	WOOD CLADDING	SIERRA MURPHY	SALES REP	SIERRA@PIONEERMILLWORKS.COM	(585) 737-6137
		ASHLEY SAMUEL	INSIDE SALES PARTNER FOR SIERRA MURPHY	ASHLEY@PIONEERMILLWORKS.COM	(503) 349-6997
SHERWIN WILLIAMS	PAINT	LEANNE DUDLEY	NATIONAL ACCOUNT MANAGER	LEANNE.LDUDLEY@SHERWIN.COM	(425) 417-1765
SUPERIOR RADIANT INSULATION	SCRIM	LINDA DITTEMORE	CUSTOMER SERVICE	LINDA@SUPERIORRB.COM	(909) 305-1450
SURFACE ART TILE	DECORATIVE TILE	CHAD BALLARD	DIRECTOR COMMERCIAL & ARCH DESIGN SALES	CHAD@SURFACEARTINC.COM	(206) 315-4538 (OFFICE) (206) 514-1590 (CELL)
SUSTAINABLE LUMBER	WOOD CLADDING	RYAN PALMA	SALES REPRESENTATIVE	RYAN@SUSTAINABLELUMBERCO.COM	(406) 642-7120
TERRAMAI	RECLAIMED TABLE TOPS, WOOD CLADDING	MATT NICHOLS	NATIONAL ACCOUNTS WEST	MNICHOLS@TERRAMAI.COM	(206) 450-6712
		JUSTINE BARNHART	INSIDE SALES	JUSTINE@TERRAMAI.COM	(541) 973-2302
UNITED TILE	DECORATIVE TILE	LOIS WALLACE	DIRECTOR OF COMMERCIAL BUSINESS DEVELOPMENT	LOIS@UNITEDTILE.COM	(206) 218-5373
UNITED TILE - CROSSVILLE	LAMINAM TILE	ASHLEY HOLMES	BRAND MANAGER - CROSSVILLE TILE	ASHLEYHOLMES@UNITEDTILE.COM	(425) 241-1986
USG	ACOUSTIC CEILING TILE	BEN BEARDEN	CORPORATE ACCOUNTS	BBEARDEN@USG.COM	
VIROC	CEMENT FIBER BOARD PANELS	STEVE PACKIN	SALES	SPACKIN@INTERNATIONALHARDBOARD.COM	(718) 386-6119
WILSONART	PLASTIC LAMINATE, COUNTERTOPS	BRYNN BISHOP	NATIONAL ACCOUNT MANAGER	BRYNN.BISHOP@WILSONART.COM	(720) 346-4538
WOLF GORDON	WALLCOVERING	GINNY COMBS	SALES REPRESENTATIVE	GINNY.COMBS@WOLFGORDON.COM	(800) 347-0550 EXT. 811
		BRITNI CIEKA	SALES SUPPORT REP.	BRITNI.CIEKA@WOLFGORDON.COM	(718) 391-5453
<b>FURNITURE</b>					
CROW WORKS	OAK & WALNUT TABLE TOPS, STRAP BASE, HEX TABLE, TRANSIT SEATING, ONE TON STOOLS, MACHINE BENCH, SHUFFLEBOARD TABLE, GAME TABLE	RACHEL STIENECKER	SENIOR ACCOUNT MANAGER	RACHEL@CROWWORKS.COM	(614) 796-6997
		AUDREY SEMINARA		AUDREY.SEMINARA@CROWWORKS.COM	(614) 301-2938
FOOD SERVICE SEATING (FSS)	PATIO SEATING, AMES CHAIR, TRENTON STOOLS	MEAGAN HSING	SALES SUPPORT	SALES@FOODSERVICESEATING.COM	(909) 755-9657
		GORDIE VERK	OWNER	GORDIE@FOODSERVICESEATING.COM	(416) 574-2124
FRANKFORD UMBRELLAS	PATIO UMBRELLAS	MARC KAUFER	PRESIDENT	MARC@FRANKFORDUMBRELLAS.COM	(856) 222-4134
		ANGELA		ANGELA@FRANKFORDUMBRELLAS.COM	
MILLENNIUM SEATING	VITRO CHAIR	JANET GREGOIRE		JANET@MILLENNIUMSEATING.COM	(866) 379-8422 EXT. 111
		JAMES SAVITSKE	TEAM LEAD	JSAVITSKE@MILLENNIUMSEATING.COM	(770) 565-1965 X131
SOFT TOUCH SEATING	SPECIALTY BOOTHS	MEGAN VICKERS	PROJECT MANAGER	MVICKERS@SOFTTOUCHFURNITURE.COM	(330) 545-4204
<b>GRAPHICS + ART</b>					
ADCOLOR	INTERIOR GRAPHICS	LORI MESSNER		LORIMESSNER@ADCOLORINC.COM	(859) 312-0217
CREO	BADGES + FIXTURES	JUSTIN GREEN		JGREEN@CREO-IA.COM	(425)374-5914
		DANA GRANGE		DGRANGE@CREO-IA.COM	
SANDY ALEXANDER	INTERIOR GRAPHICS	LESLIE TOLBERT		LTOLBERT@SANDYINC.COM	(818) 842-7150
		ANGELA VICKERS		AVICKERS@SANDYINC.COM	
<b>LIGHTING</b>					
CED (STUSSER)	FULL LIGHTING PACKAGE	JANELLE YOSHIMOTO (YOSHI)	CED NATIONAL ACCOUNT	JANELLE.YOSHIMOTO@CED.COM	(206) 694-6534
		ALEX KNIPP	CED NATIONAL ACCOUNT	ALEX.KNIPP@CED.COM	(206) 694-6494
		GREG APPLEGATE	CED NATIONAL ACCOUNT	GREG.APPLEGATE@CED.COM	(206) 623-1501
			ORDERS	MOD@CED.COM	
GRAYPANTS	GRAYPANTS PENDANT	JONATHAN JUNKER	CEO	JON.JUNKER@GRAYPANTS.COM	206-409-5316
NORTH COAST	FULL LIGHTING PACKAGE	CHRIS AUSTIN	ACCOUNT MANAGER	CHRIS.AUSTIN@NORTHCOAST.COM	(206) 305-0677
		JORDAN AKHLAGHI	NATIONAL ACCOUNTS	JORDAN.AKHLAGHI@NORTHCOAST.COM	
<b>RESTROOMS + REGULATORY SIGNAGE</b>					
RESTROOM REMODELS	RESTROOM FIXTURES, REGULATORY SIGNS	KEITH VANDERBILT	SALES	KEITH@RESTROOMREMODELS.COM	(617) 500-2554
		KRISLYNN MACIEL	CUSTOMER SUPPORT	KRIS@RESTROOMREMODELS.COM	(978) 525-0088
<b>SIGNAGE + MENUS</b>					
AGI	EXTERIOR SIGNAGE	ROBERT VOIGT	PROJECT MANAGER	RVOIGT@AGI.NET	(865) 560-6088
		RANDY KERR	VP OF SALES	RKERR@AGISIGN.COM	(865) 692-1242 X3248
		SARAH HOLMES	PROJECT MANAGER II	SHOLMES@AGI.NET	(800) 877-7868 X3204
		GRANT WHITFIELD	DIRECTOR OF PROJECT MANAGEMENT	GWHITFIELD@AGI.NET	(865) 560-6088
ATLAS	EXTERIOR SIGNAGE	LUKE FORD		LUKE.F@ATLASBTW.COM	(561) 863-6659 EXT. 2024
		KAYTLYN SANDMEYER	PROJECT MANAGER	KAYTLYNS@ATLASBTW.COM	(561) 543-5940

**RELEASE FOR CONSTRUCTION**  
 AS NOTED ON PLANS REVIEW  
 DEVELOPMENT SERVICES  
 LEE'S SUMMIT, MISSOURI  
 10/27/2021  


2035 168th CT NE  
 Suite 200  
 Bellevue, WA 98008

ARCHITECT OF RECORD  
  
 INTERPLAN LLC  
 ARCH COA #2015008774  
 ENG COA #2005026904

**ARCHITECTURE ENGINEERING PERMITTING**  
 220 E. CENTRAL PKWY. STE 4000  
 ALAMONTE SPRINGS, FL 32701  
 407.645.5008  
 PROJECT NO. 2021.0524

Digitally signed by David Boyce  
 Date: 2021.10.20 16:17:10  
  
 DAVID G. BOYCE  
 NUMBER A-2000157576  
 ARCHITECT

MOD LEES SUMMIT  
 460 NW CHIPMAN RD  
 LEES SUMMIT, MO 64086

ISSUED / REVISED DATE  
 BUILDING COMMENTS 10.18.21  
 DESIGN UPGRADES 10.18.21

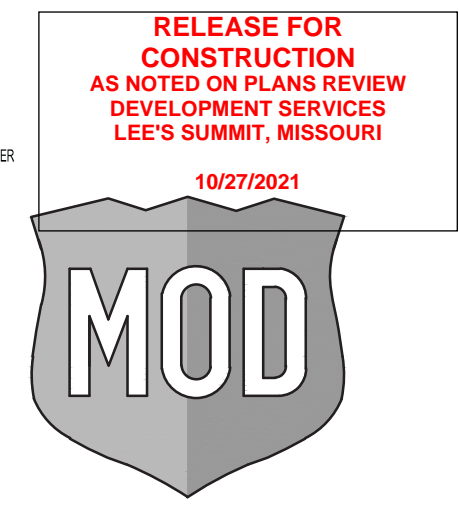
**PERMIT SET** 09.20.21  
**V-001**  
 VENDOR LIST

CHECKED: EM DRAWN: AL

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# VENDOR LIST CONT.

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		JANE SINKS	PROJECT MANAGER	JANE.S@ATLASSIGNINDUSTRIES.US	(561) 863-6659
		ANNETTE SOUTHERN	PROGRAM MANAGER	ANNETTE.S@ATLASSIGNINDUSTRIES.US	(561) 863-6659
		JILL ADINOLFE	PRESIDENT NORTH EAST DIVISION/CEO	JILL.A@ATLASSIGNINDUSTRIES.US	(561) 863-6659
LOREN	EXTERIOR SIGNAGE, DRIVE THRU MENU BOARDS AND SIGNAGE	DAN LORENZON	PRESIDENT	DAN.L@LORENSIGNS.COM	(562) 328-4800
		CARLA TOLEDO	DIRECTOR OF PROJECT MANAGEMENT	CARLA.T@LORENSIGNS.COM	(562) 946-7545 EXT. 133
VGS	INTERIOR MENU BOARDS	ANDY SCHILLIG	DIRECTOR OF NEW BUSINESS DEVELOPMENT	ASCHILLIG@VGS-INC.COM	(201) 528-9683
		ERICKA MARGARITONDO	ACCOUNT MANAGER	MARGARITONDO@VGS-INC.COM	(201) 528-9651
		ROSE ROMANO		RROMANO@VGS-INC.COM	(201) 528-9112
				MODPIZZA@VGS-INC.COM	
WALTON SIGNAGE	OPEN SIGN, ORDER HERE SIGN, ONLINE PICKUP SIGN, ARROW SIGN	LAURA MONROE	EXECUTIVE VP	LMONROE@WALTONSIGNAGE.COM	(210) 419-9250
		ERIN WADE	VP OF PROGRAM MANAGEMENT	EWADE@WALTONSIGNAGE.COM	(210) 823-2386
		MARISOL JAUREZ	DIRECTOR OF PROGRAM MANAGEMENT	MJUAUREZ@WALTONSIGNAGE.COM	(210) 906-5986
		DARIAN BEACHY	VP OF SPECS	DBEACHY@WALTONSIGNAGE.COM	



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**INTERPLAN**  
INTERPLAN LLC  
ARCH COA #2015008774  
ENG COA #2005026904

ARCHITECTURE  
ENGINEERING  
PERMITTING

220 E. CENTRAL PKWY. STE 4000  
ALTAMONTE SPRINGS, FL 32701  
407.645.5008  
PROJECT NO. 2021.0524

CONSULTANT

Digitally signed by David Boyce  
Date: 2021.10.20 16:17:38

**MOD LEES SUMMIT**  
460 NW CHIPMAN RD  
LEES SUMMIT, MO 64086

ISSUED / REVISED	DATE
△ BUILDING COMMENTS	10.18.21
△ DESIGN UPGRADES	10.18.21

PERMIT SET 09.20.21

**V-002**  
VENDOR LIST

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ENGINEERING  
PERMITTING

220 E. CENTRAL PKWY, STE 4000  
ALTAMONTE SPRINGS, FL 32701  
407.645.5008  
PROJECT NO. 2021.0524

CONSULTANT

FOR INFORMATION ONLY

SEALED

**MOD LEE'S SUMMIT**  
460 NW CHIPMAN RD  
LEE'S SUMMIT, MO 64086

ISSUED / REVISED DATE  
△ BUILDING COMMENTS 10.18.21  
△ DESIGN UPGRADES 10.18.21

DRAWN BY: RTB - 85

SCALE: 3/4" = 1'-0"

MASTER DRAWING

PERMIT SET 09.20.21

**H-001**  
HOOD DRAWINGS

CHECKED: DAK DRAWN: QN

quynqu - 10/20/2021 12:10:43 PM

REVISIONS	
DESCRIPTION	DATE

**CAPTIVE**  
Seattle Office  
1309 Pacific Ave, Everett, WA, 98201 PHONE: (425) 212-5996 FAX: (425) 212-5996 EMAIL: reg85@captiveaire.com

MOD Pizza - Lee's Summit MO  
460 Nw Chipman Rd,  
Lee's Summit, MO, 64063

**SPECIFICATION: CAPTRATE® GREASE-STOP® SOLID FILTER**

THE CAPTRATE GREASE-STOP SOLID FILTER IS A SINGLE-STAGE FILTER FEATURING A UNIQUE S-Baffle DESIGN IN CONJUNCTION WITH A SLOTTED REAR BAFFLE DESIGN, TO DELIVER EXCEPTIONAL FILTRATION EFFICIENCY.

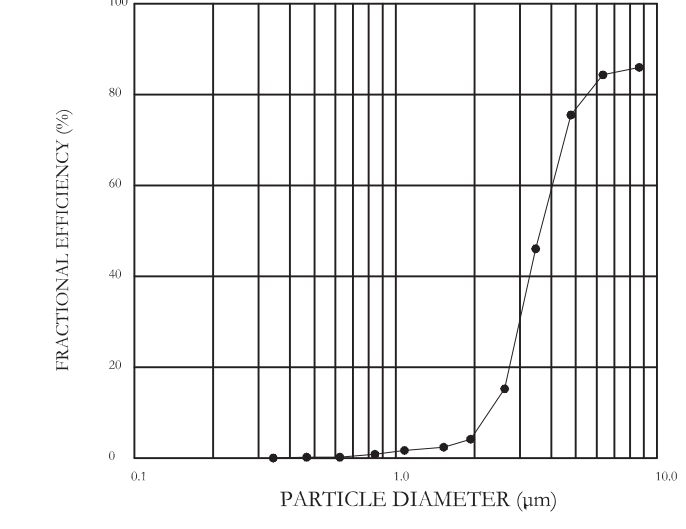
FILTER IS STAINLESS STEEL CONSTRUCTION, AND SIZED TO FIT INTO STANDARD 2-INCH DEEP HOOD CHANNEL(S).

UNITS SHALL INCLUDE STAINLESS STEEL HANDLES AND A FASTENING DEVICE TO SECURE THE TWO COMPONENTS WHEN ASSEMBLED.

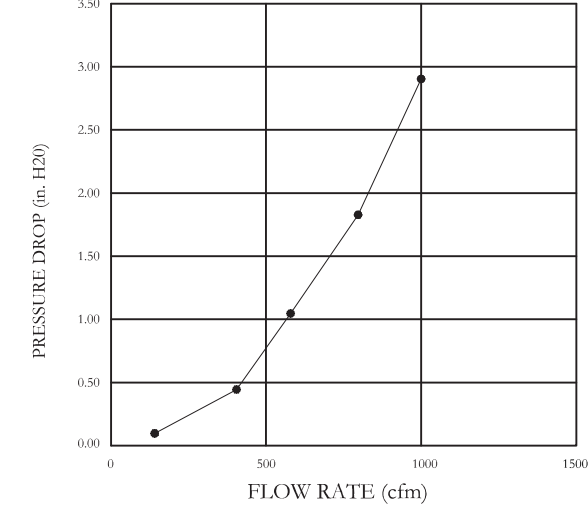
GREASE EXTRACTION EFFICIENCY PERFORMANCE SHALL REMOVE AT LEAST 75% OF GREASE PARTICLES FIVE MICRONS IN SIZE, AND 85% GREASE PARTICLES SEVEN MICRONS IN SIZE AND LARGER, WITH A CORRESPONDING PRESSURE DROP NOT TO EXCEED 1.0 INCHES OF WATER GAUGE.

THE CAPTRATE GREASE-STOP SOLID WAS TESTED TO ASTM STANDARD ASTM F2519-05.

EFFICIENCY VS. PARTICLE DIAMETER



PRESSURE DROP VS. FLOW RATE



CAPTIVE FILTERS ARE BUILT IN COMPLIANCE WITH:

- NFPA #96
- NSF STANDARD #2
- UL STANDARD #1046
- INT. MECH. CODE (IMC)
- ULC-S649



FOR QUESTIONS, CALL THE  
Seattle Office  
REGION 85  
PHONE: (425) 212-5996  
EMAIL: reg85@captiveaire.com

PATENT NUMBERS  
EXHAUST HOODS ND-2/BD-2/SND-2 (CANADA) - CA PATENT 2520435 C.

**HOOD INFORMATION - JOB#5057812**

HOOD NO	TAG	MODEL	MANUFACTURER	LENGTH	MAX COOKING TEMP	TYPE	APPLIANCE DUTY	DESIGN CFM/FT	TOTAL EXH CFM	EXHAUST PLENUM RISER(S)					HOOD CONSTRUCTION	HOOD CONFIG			
										WIDTH	LENG	HEIGHT	DIA	CFM		VEL	SP	END TO END	ROW
1		4824 ND-2	CAPTIVEAIRE	6' 0"	450 DEG	I	MEDIUM	150	900			4'	12"	900	1146	-0.378'	304 SS 100%	ALONE	ALONE

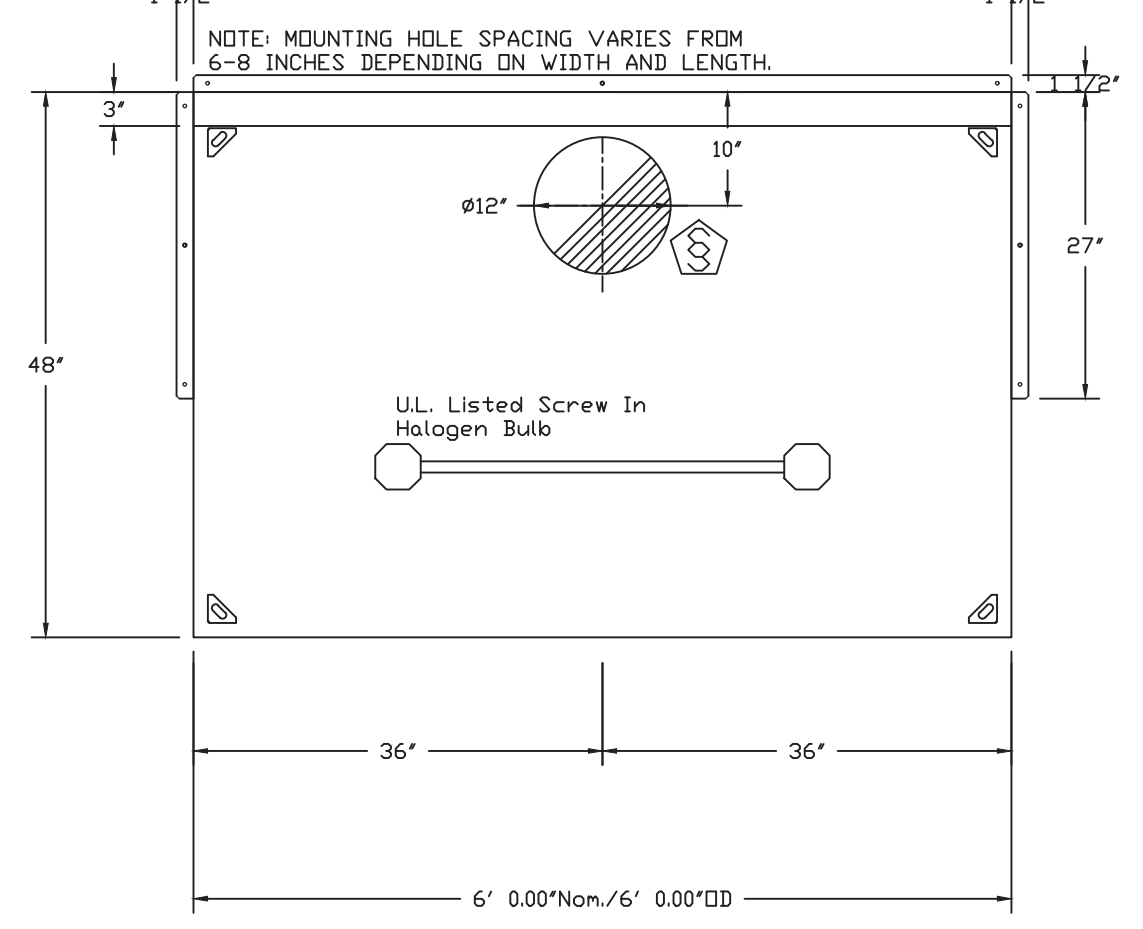
**HOOD INFORMATION**

HOOD NO	TAG	FILTER(S)				LIGHT(S)				UTILITY CABINET(S)				FIRE SYSTEM PIPING	HOOD HANGING WEIGHT	
		TYPE	QTY	HEIGHT	LENGTH	EFFICIENCY @ 7 MICRONS	QTY	TYPE	WIRE GUARD	LOCATION	SIZE	TYPE	SIZE			MODEL #
1		CAPTIVE SOLID FILTER	4	16"	16"	85% SEE FILTER SPEC	2	SCREW IN HALOGEN	NO						YES	292 LBS

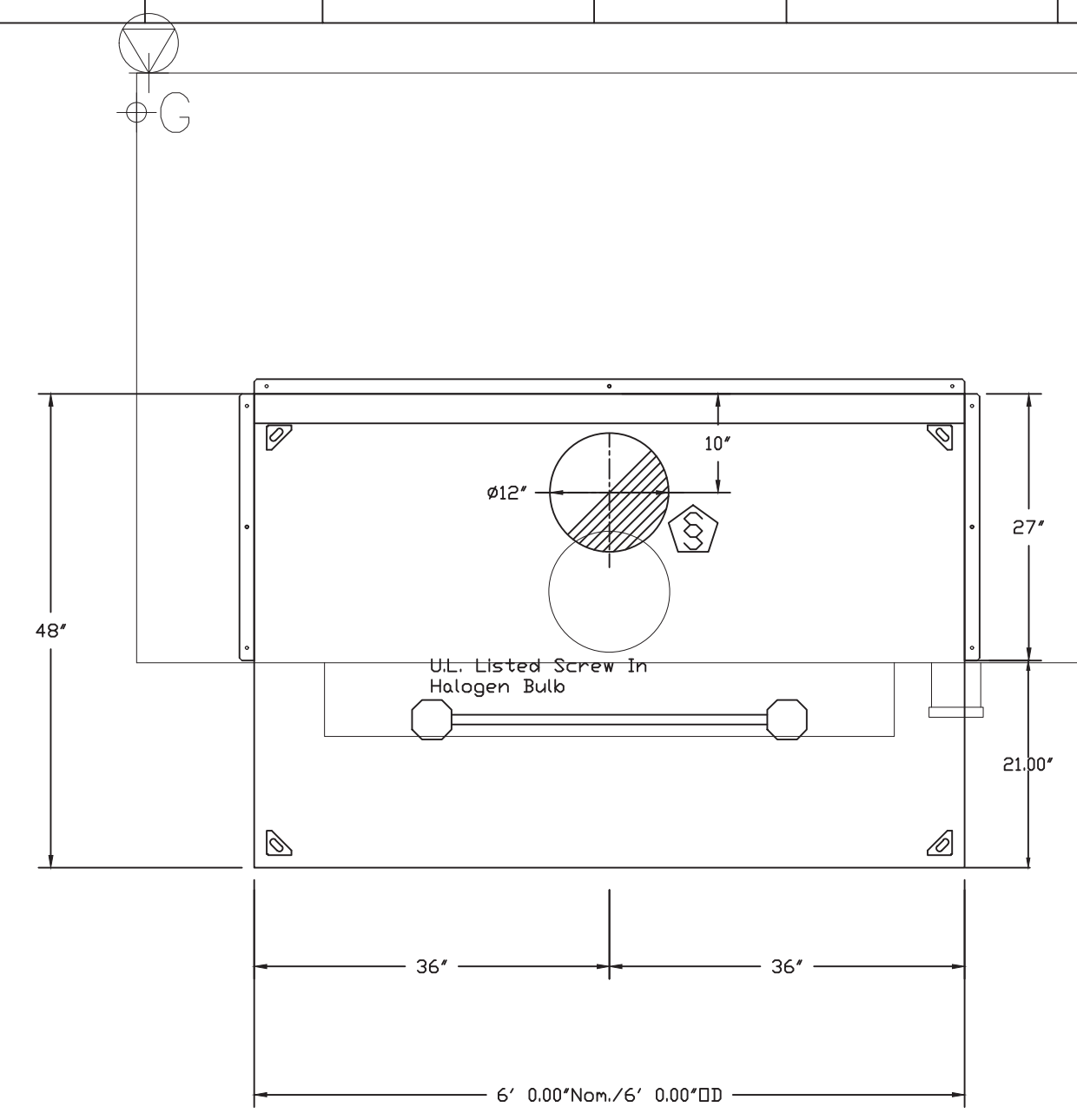
**HOOD OPTIONS**

HOOD NO	TAG	OPTION
1		FIELD WRAPPER 4.00' HIGH FRONT, LEFT, RIGHT, BACK.
		FINISHED BACK - GROUND/POLISH 72.00' LONG.
		RISER SENSOR INSTALL 6IN PLEN.
		PIZZA OVEN TOP MOUNT FLANGES.

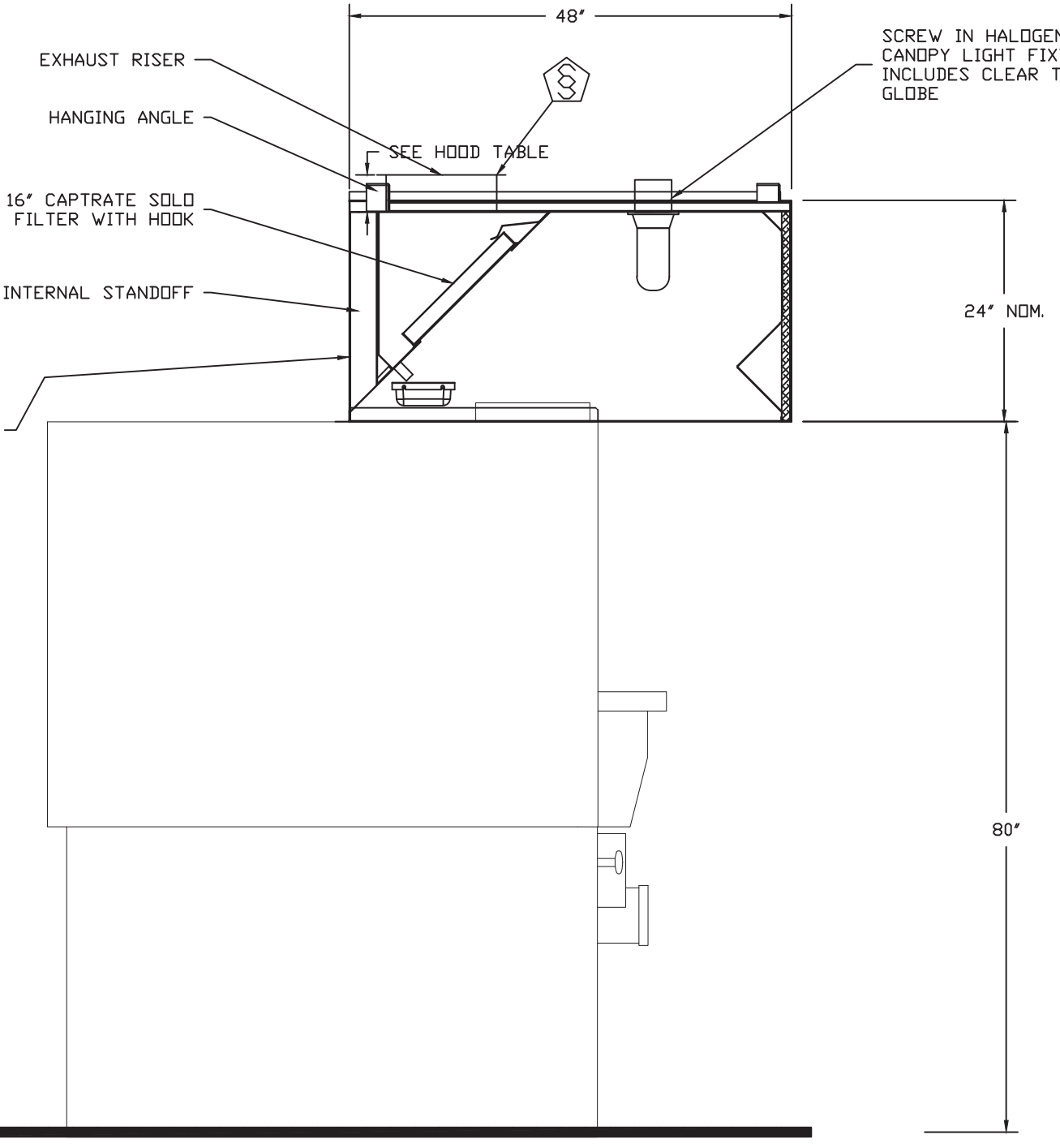
MINIMUM MOUNTING REQUIREMENTS:  
FLANGES SEALED TO OVEN WITH 3M 2000+ FIRE BARRIER.  
ONE 5/16"-18 SELF TAPPING HEX HEAD SCREW IN EVERY MOUNTING HOLE.



PLAN VIEW - Hood #1  
6' 0.00" LONG 4824ND-2



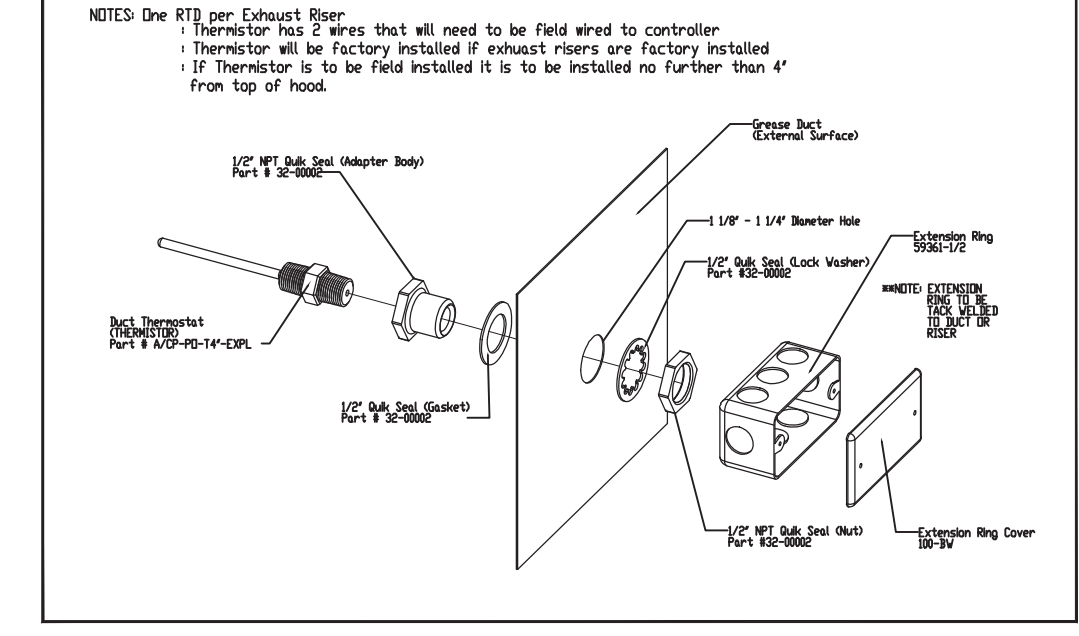
PLAN VIEW - Hood #1  
6' 0.00" LONG 4824ND-2



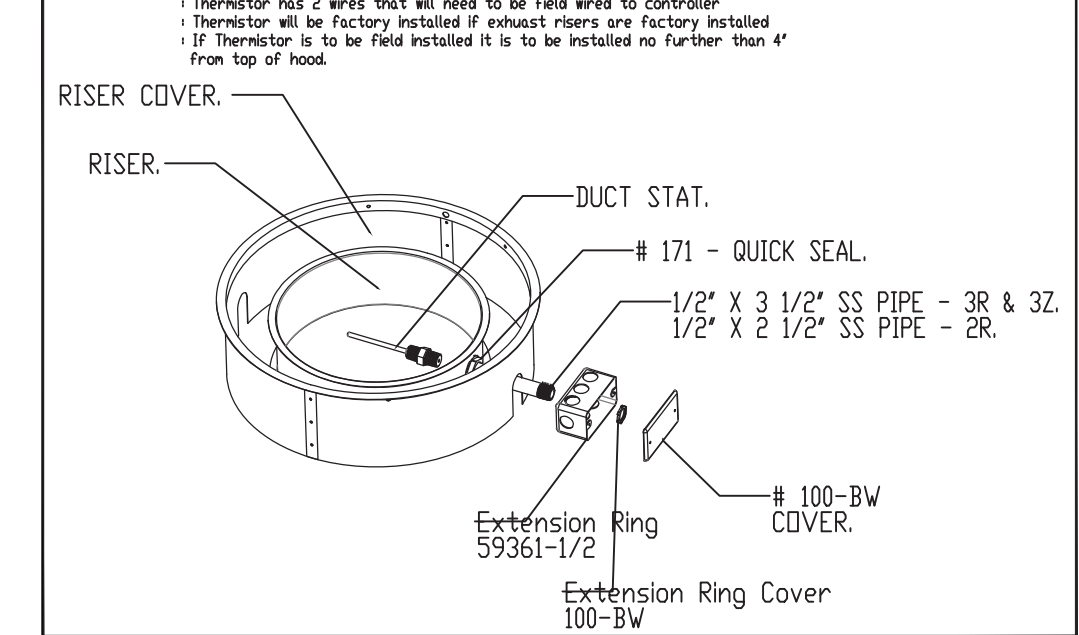
SECTION VIEW - MODEL 4824ND-2  
HOOD - #1

- 1) OVEN VENT SYSTEM TO BE PROCURED BY CONTRACTOR ONLY FROM CAPTIVE AIRE SYTEMS REGION 85, 425-212-5996, REG85@CAPTIVEAIRE.COM, NO SUBSTITUTIONS PERMITTED.
- 2) CONTRACTOR TO MEASURE DUCTING IMMEDIATELY AFTER OVEN INSTALLATION AND PROMPTLY PROVIDE INFORMATION TO CAPTIVE AIRE SYSTEMS FOR FABRICATION.
- 3) FABRICATION AND DELIVERY TAKE FOUR (4) WEEKS MINIMUM. INCORPORATE INTO CONSTRUCTION SCHEDULE ACCORDINGLY
- 4) EXHAUST HOOD FIRE SUPPRESSION SYSTEM INDICATED IS SEPARATE FROM CAPTIVE AIRE SCOPE. CONTRACTOR TO INCLUDE, BUT NOT LIMITED TO, GAS VALVE, TANK, CHEMICAL, CARTRIDGE, AUTOMAN, PERMIT, AND SOURCE EXHAUST HOOD FIRE SUPPRESSION LOCALLY TO COMPLY WITH APPLICABLE CODE REQUIREMENTS
- 5) REFER TO ARCHITECTURAL, MECHANICAL, PLUMBING AND ELECTRICAL DRAWINGS FOR DEVICE LOCATIONS
- 6) BALANCING OF STORE HVAC TO BE INDEPENDENT OF ADJUSTING HOOD EXHAUST FAN AND TO BE COMPLETED AFTER SDV.

**THERMISTOR SENSOR INSTALLATION DETAIL-CONVENTIONAL WELDED DUCT**



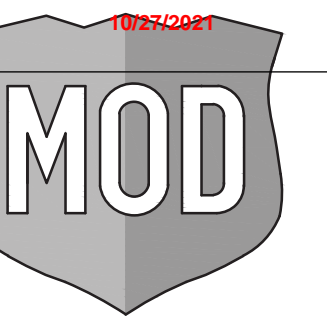
**THERMISTOR SENSOR INSTALLATION DETAIL-FABRY BUILT DW DUCT**



**THERMISTOR- (1) PER EXHAUST COLLAR**

FIELD INSTALL IN HOOD EXHAUST COLLAR WITHIN 4" OF CONNECTION TO HOOD (HARDWARE PROVIDED).

WIRE TO SC CONTROL BOARD WITH PROVIDED 2 WIRE LOW VOLTAGE CABLE.



2035 158th CT NE  
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Bellevue, WA 98008

ARCHITECT OF RECORD  
**INTERPLAN**  
INTERPLAN LLC  
ARCH COA #2015008774  
ENG COA #2005026904

ARCHITECTURE  
ENGINEERING  
PERMITTING

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ALTAMONTE SPRINGS, FL 32701  
407.645.5008  
PROJECT NO. 2021.0524

FOR  
INFORMATION  
ONLY

**MOD LEES SUMMIT**  
460 NW CHIPMAN RD  
LEE'S SUMMIT, MO 64086

ISSUED / REVISED DATE  
 ▲ BUILDING COMMENTS 10.18.21  
 ▲ DESIGN UPGRADES 10.18.21

PERMIT SET 09.20.21

**H-002**  
HOOD DRAWINGS

**REVISIONS**

NO.	DESCRIPTION	DATE
▲		
▲		
▲		
▲		



MOD Pizza - Lee's Summit MO  
460 Nw Chipman Rd,  
Lee's Summit, MO, 64063

**DATE:** 8/25/2021

**DWG.#:** 5057812

**DRAWN BY:** RTB - 85

**SCALE:** 3/4" = 1'-0"

**MASTER DRAWING**

**SHEET NO.** 2

Seattle Office  
1309 Pacific Ave, Everett, WA, 98201 PHONE: (425) 212-5998 FAX: (425) 212-5998 EMAIL: reg85@captiveaire.com

SECTION 23 38 13 13

**SPECIFICATIONS**  
TAG: Commercial Kitchen Ventilation Hoods, Listed Commercial Kitchen Hoods

**PART 1 - GENERAL**

**1.1 SUMMARY**

- A. The ND2 series is a Type I, wall canopy hood for use over 450°F cooking surface temperatures. The aerodynamic design includes a mechanical baffle and performance enhancing lip for exceptional capture and containment.
- B. The hood shall have the size, shape, and performance specified on drawings.

**1.2 SUBMITTALS**

- A. The manufacturer assumes no liability for the use or results of use from this document. Specifications are to be reviewed by the engineer to confirm the project's requirements and meet Federal, State, and Local codes and regulations.
- B. As the manufacturer continues product development, it reserves the right to change design and specifications without notice.
- C. The manufacturer shall supply complete computer generated submittal drawings, including hood section view(s) and hood plan view(s). These drawings must be available to the engineer, architect, and owner for their use in construction, operation, and maintenance.

**1.3 QUALITY ASSURANCE**

- A. This hood is ETL-listed to standard UL710, ULC710, and ULC-S646 when installed in accordance with these installation instructions and National Fire Protection Association Standard "NFPA 96, Standard for Ventilation Control and Fire Protection of Commercial Cooking Operations."
- B. Built-in compliance with NSF/ANSI Standard 2.
- C. The hood shall be ETL Listed as:
  - 1. "Exhaust Hood Without Exhaust Damper."
  - 2. ETL Sanitation Listed and built in accordance with NFPA 96.
  - 3. The ETL label shall list temperature rating(s) and minimum CFM/ft rating(s).

**1.4 WARRANTY**

- A. All units shall be provided with the following standard warranty:
  - 1. This equipment is warranted to be free from defects in materials and workmanship, under normal use and service, for a period of 2-years from date of shipment.
- B. The manufacturer shall not be liable for incidental and consequential losses and damages potentially attributable to malfunctioning equipment. Should any part of the equipment prove to be defective in material or workmanship within the 2-year warranty period, upon examination by the manufacturer, such part will be repaired or replaced by manufacturer at no charge. The buyer shall pay all labor costs incurred in connection with such repair or replacement. Equipment shall not be returned without manufacturer's prior authorization, and all returned equipment shall be shipped by the buyer, freight prepaid to a destination determined by the manufacturer.
- C. Refer to Manufacturer's Operation, Installation, and Maintenance (OIM) Manual for detailed descriptions of what is/is not covered and contact information for warranty claims.

**PART 2 - PRODUCTS**

**2.1 GENERAL**

- A. Construction shall be dependent on the structural application to minimize distortion and other defects. All seams, joints, and penetrations of the hood enclosure to the lower outermost perimeter, which directs and captures grease-laden vapor and exhaust gases, shall have a liquid-tight continuous external weld in accordance with NFPA 96.

- B. Duct sizes, CFM, and static pressure requirements shall be as shown on drawings. Static pressure requirements shall be precise and accurate; air velocity and volume information shall be accurate within 1-ft increments along the length of the ventilator.

**2.2 CONSTRUCTION**

- A. Construction shall be type 304 stainless steel.
- B. Double wall insulated front to eliminate condensation and increase rigidity on wide sizes. The insulation shall have a flexural modulus of 475 EI, meet UL 181 requirements and be in accordance with NFPA 90A and 90B.
- C. Hood shall be equipped with a minimum of four connections for hanger rods. Hood lengths greater than 12' will have added hangers.
- D. Exhaust duct collar to be 4" high with flange.
- E. The grease drain system shall be an enclosed integral part of the hood back and have slopes with an exposed, removable 1/2 grease cup to facilitate cleaning.
- F. An integral baffle to direct grease laden vapors toward the exhaust filter bank.
- G. Hood shall be furnished with UL classified filters, supplied in size and quantity as required by ventilator.
- H. All seams shall be welded and have stainless steel on exposed surfaces.

**2.3 LIGHTING**

- A. L55 Series canopy light fixture, includes clear thermal and shock resistant globe.
- B. Screw-in halogen bulb. High temperature assembly includes clear and shock resistant globe.

**2.4 FILTERS**

- A. Stainless Steel Captrate Solo filter with hook, ETL Listed. Particulate capture efficiency: 85% efficient at 9 microns, 76% efficient at 5 microns.

**2.5 OPTIONS**

- A. Fire Suppression System: UL 300 fire suppression system.

**2.6 ACCESSORIES**

- A. Wrapper(s) may be installed from the factory or field installed. Wrapper(s) selected:
  - 1. Wrapper
- B. Miscellaneous option(s) selected:
  - 1. Pizza Oven Top Mount Flanges -Flanged brackets added to mount hood over pizza oven.
  - 2. Riser Sensor Install -Sensor set-up for 6" plenum.

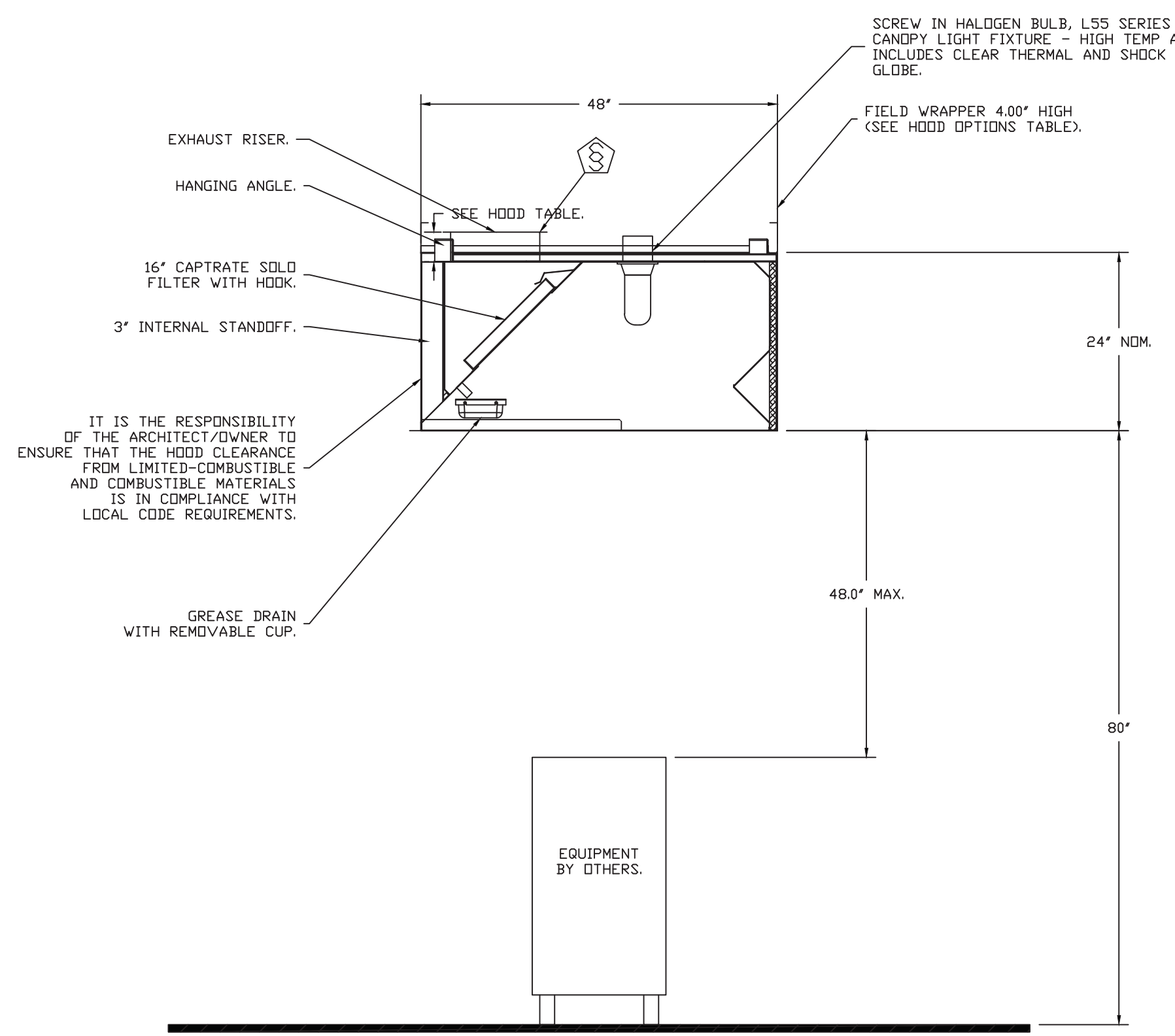
**PART 3 - EXECUTION**

**3.1 EXAMINATION**

- A. Examine areas and conditions under which the system is installed. Do not proceed with work until unsatisfactory conditions have been corrected in a manner acceptable to installer.

**3.2 INSTALLATION**

- A. Install in accordance with manufacturer's instructions, drawings, written specifications, manufacturer's installation manual, and all applicable building codes.



**SECTION VIEW - MODEL 4824ND-2  
HOOD - #1**

IT IS THE RESPONSIBILITY OF THE ARCHITECT/OWNER TO ENSURE THAT THE HOOD CLEARANCE FROM LIMITED-COMBUSTIBLE AND COMBUSTIBLE MATERIALS IS IN COMPLIANCE WITH LOCAL CODE REQUIREMENTS.



2035 158th CT NE  
Suite 200  
Bellevue, WA 98008

ARCHITECT OF RECORD  
**INTERPLAN**  
INTERPLAN LLC  
ARCH COA #2015008774  
ENG COA #2005026904

ARCHITECTURE  
ENGINEERING  
PERMITTING

220 E. CENTRAL PKWY, STE 4000  
ALTAMONTE SPRINGS, FL 32701  
407.645.5008  
PROJECT NO. 2021.0524

FOR INFORMATION ONLY

**MOD LEES SUMMIT**  
460 NW CHIPMAN RD  
LEES SUMMIT, MO 64086

ISSUED / REVISED DATE  
 △ BUILDING COMMENTS 10.18.21  
 △ DESIGN UPGRADES 10.18.21

PERMIT SET 09.20.21

**H-003**  
HOOD DRAWINGS

**FIRE SYSTEM INFORMATION - JOB#5057812**

FIRE SYSTEM NO	TAG	TYPE	SIZE	FLOW POINTS	INSTALLATION	
					SYSTEM	LOCATION ON HOOD
1		ANSUL R102	3.0	2	WALL MOUNT LEFT	N/A

**FIRE SYSTEM PARTS LIST KEY**

FIRE SYSTEM NO	TAG	KEY NUMBER - PART DESCRIPTION	QTY BY FACTORY	QTY BY DIST
		0 - 0 - 439861 LARGE BLOWOFF CAP, METAL, TO FIT NEW LASER-ETCHED ANSUL NOZZLES, A0024201.	2	0
		1 - 1 - AT - 3.0 TANK(#1B) - 3.0 GALLON SS TANK (FOR USE WITH AUTOMAN RELEASE, ACTUATOR, DR SS ENCLDSURE (UL/ULC) MACDLA # 01-429862.	0	1
		2 - 2 - AP - AR AUTOMAN RELEASE - ANSUL AUTOMAN MECHANICAL RELEASE (UL). TANK SOLD SEPARATELY. ANSUL PART # 429853; MACDLA # 01-429853.	0	1
		5 - 5 - L10-3.0 AGENT - ANSULEX LOW PH WET CHEMICAL AGENT, 3 GALLON (UL) 79372.	0	1
		7 - 7 - 101-20 CARTRIDGE - CARBON DIOXIDE 101-20, 3 GALLON CARTRIDGE (R-102).	0	1
		10 - 10 - TLINK LINK - TEST LINK (I TEST LINK) ANSUL PART # 24916, MACDLA # 20-24916.	0	1
		11 - 11 - MICRO-SDA MICROSWITCH KIT- INCLUDES 2 SWITCHES AND MOUNTING HARDWARE. SINGLE DUAL ELECTRIC SWITCH, ONE STANDARD SWITCH, ONE ALARM DUTY SWITCH ANSUL PART # 437155, MACDLA # 08-437155.	0	1
		14 - 14 - 419336 NOZZLE - 1W NOZZLE, DUCT/APPLIANCE (REPLACES ANSUL PART# 419347, CAS PART# 419336) A0001266.	1	0
		16 - 16 - 419335 NOZZLE - 1N NOZZLE, PLENUM/APPLIANCE (REPLACES ANSUL PART# 419346, CAS PART# 419335) A0001265.	1	0
		26 - 26 - QSA-3/8 QUIK SEAL - 3/8" (UL).	2	0
		27 - 27 - QPSA-1/2 PULLEY SEAL - 1/2" HOOD SEAL (UL) ANSUL PART # 423253, MACDLA # 32-79768.	1	0
		28 - 28 - S-DET DETECTOR - SERIES (SCISSOR LINKAGE) ANSUL PART # 435547/435548 (OLD # 417369/434480); MACDLA # 05-417369.	3	0
		29 - 29 - ANS-360FL FUSIBLE LINK - 360DEG F, R-102 AND PIRANHA, ANSUL PART # 439088.	3	0
		34 - 34 - RPS-A REMOTE PULL STATION - RED COMPOSITE (WITHOUT WIRE ROPE) 434618 (OLD MACDLA #06-4835).	0	1
		35 - 35 - PE-LT PULLEY ELBOW - LOW TEMP. PULLEY ELBOW, SET SCREW TYPE ANSUL PART # 415670, MACDLA # 11-415671.	0	10
		36 - 36 - PE-HT PULLEY ELBOW - HIGH TEMP PULLEY ELBOW, COMPRESSION TYPE, ANSUL PART # 423251, MACDLA # 10-45771.	1	0

**NOTES**

- FIELD PIPE DROPS AS SHOWN SLEEVING, ELBOWS, TEES, AND NOZZLES SUPPLIED BY CAS
- RELOCATE NOZZLES IF FLOW PATTERN IS BLOCKED BY SHELVING, SALAMANDERS, ETC.
- MAXIMUM 9 ELBOWS IN SUPPLY LINE.
- MINIMUM 72 INCHES OF AGENT LINE FROM TANK TO FIRST NOZZLE.
- IF APPLICABLE, PRE-PIPED CHARBROILER DROPS ARE SHIPPED LOOSE.
- FACTORY PIPING EXTENDS A MAXIMUM OF 6" ABOVE THE TOP OF THE HOOD.

- APPLIANCE DIMENSIONS LISTED REPRESENT THE COOKING SURFACE SIZE, NOT THE OVERALL APPLIANCE SIZE.

- THIS FIRE SYSTEM COMPLIES WITH U.L. 300 REQUIREMENTS

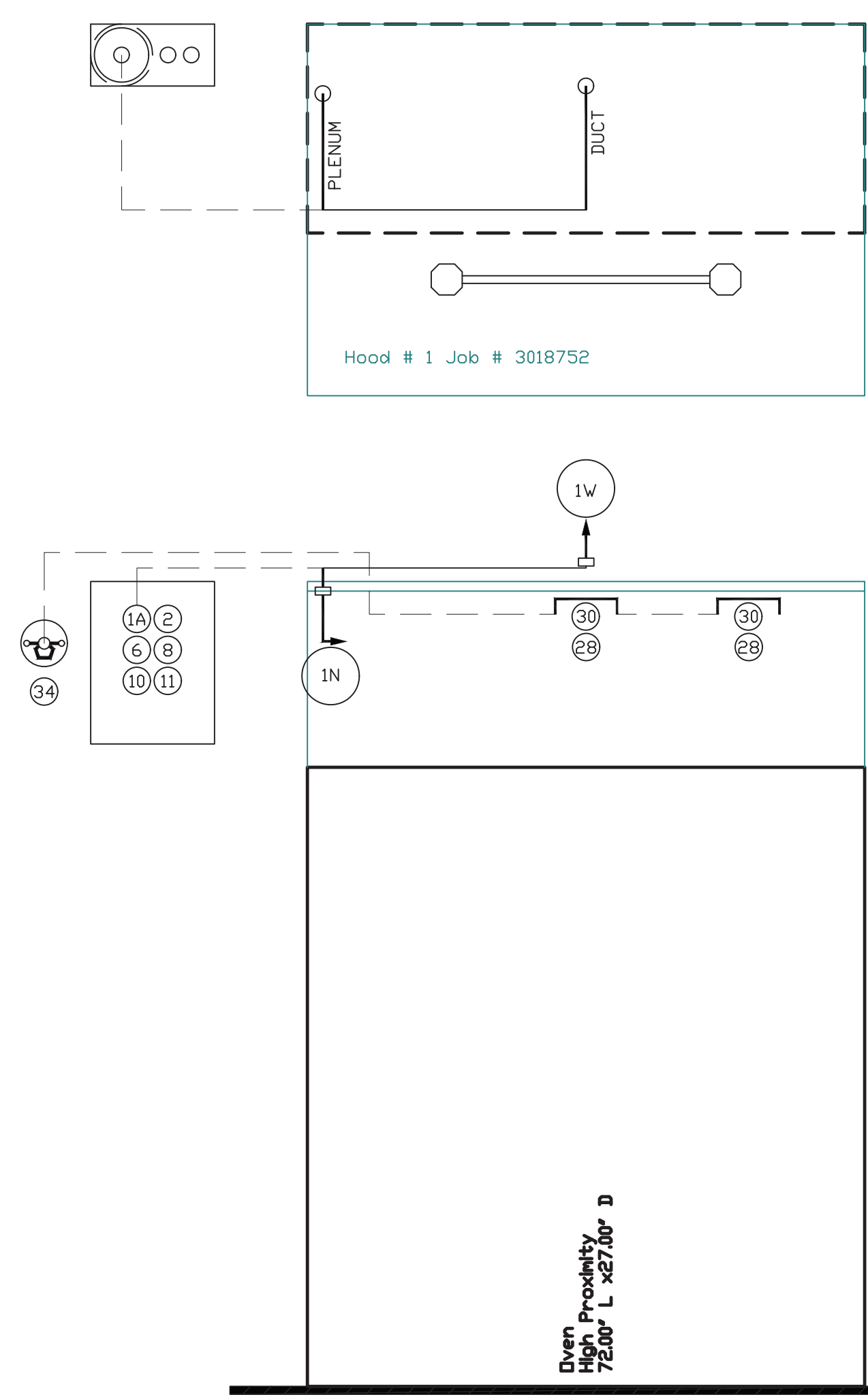
**SPECIFICATIONS**

THE RESTAURANT FIRE SUPPRESSION SYSTEM SHALL BE THE PRE-ENGINEERED TYPE WITH A FIXED NOZZLE AGENT DISTRIBUTION NETWORK. IT SHALL BE LISTED WITH UNDERWRITERS LABORATORIES, INC. (UL)

THE SYSTEM SHALL BE CAPABLE OF AUTOMATIC DETECTION AND ACTUATION WITH LOCAL OR REMOTE MANUAL ACTUATION. ACCESSORIES SHALL BE AVAILABLE FOR MECHANICAL OR ELECTRICAL GAS LINE SHUT-OFF APPLICATIONS.

THE EXTINGUISHING AGENT SHALL BE A POTASSIUM CARBONATE, POTASSIUM ACETATE-BASED FORMULATION DESIGNED FOR FLAME KNOCKDOWN AND SECUREMENT OF GREASE RELATED FIRES. IT SHALL BE AVAILABLE IN PLASTIC CONTAINERS WITH INSTRUCTIONS FOR LIQUID AGENT HANDLING AND USAGE.

THE REGULATED RELEASE MECHANISM SHALL BE COMPATIBLE WITH A FUSIBLE LINK DETECTION SYSTEM. THE FUSIBLE LINK SHALL BE SELECTED AND INSTALLED ACCORDING TO THE OPERATING TEMPERATURE IN THE VENTILATING SYSTEM. THE FUSIBLE LINK SHALL BE SUPPORTED BY A DETECTOR BRACKET/LINKAGE ASSEMBLY.



**NOTES**

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Job #: 3018752  
 Job Name: MOD Pizza - Salinas Harden Ranch - R1  
 Drawn By:  
 System Size: ANSUL-15 Total FP required: 2  
 Hood # 1 6' 0.00" Long x 48" Wide x 24" High  
 Riser # 1 Size: 12" Dia.  
 Hood # 1 Metal Blow-Off Caps included.

Locate Ansul box on the wall 16x21x8"  
 Locate Remote Pull Station on wall  
 Tie into Building Fire alarm panel if necessary  
 Mechanical Gas Valve by local fire distributor

**REVISIONS**

DESCRIPTION	DATE

**CAPTIVE**

Seattle Office  
 1309 Pacific Ave, Everett, WA, 98201 PHONE: (425) 212-5998 FAX: (425) 212-5998 EMAIL: reg85@captivefire.com

MOD Pizza - Lee's Summit MO  
 460 Nw Chipman Rd,  
 Lee's Summit, MO, 64063

**DATE:** 8/25/2021  
**DWG.#:** 5057812  
**DRAWN BY:** RTB - 85  
**SCALE:** 3/4" = 1'-0"  
**MASTER DRAWING**

**SHEET NO.**  
3

**EXHAUST FAN INFORMATION - JOB#5057812**

FAN UNIT NO	TAG	QTY	FAN UNIT MODEL #	MANUFACTURER	CFM	ESP	RPM	MOTOR ENCL	HP	BHP	PHASE	VOLT	FLA	DISCHARGE VELOCITY	WEIGHT (LBS)	SDNES
1	EF	1	CASRE13BD	CAPTIVEAIRE	900	0.550	1362	ODP	0.500	0.3800	1	115	7.6	939 FPM	246	12.7

**FAN OPTIONS**

FAN UNIT NO	TAG	QTY	DESCRIPTION
1	EF	1	RE13BD - HIGH TEMPERATURE HEAT & SMOKE OPTION.
		1	UTILITY SET GREASE CUP.
		1	EXTRA SET OF BELTS.
		1	FAN BASE CERAMIC SEAL - SHIP LOOSE - FOR GREASE DUCTS.
		1	RE11/13 - RAIN CAP ASSEMBLY - INCLUDES HARDWARE AND GASKET.
1		2	YEAR PARTS WARRANTY.

**FAN ACCESSORIES**

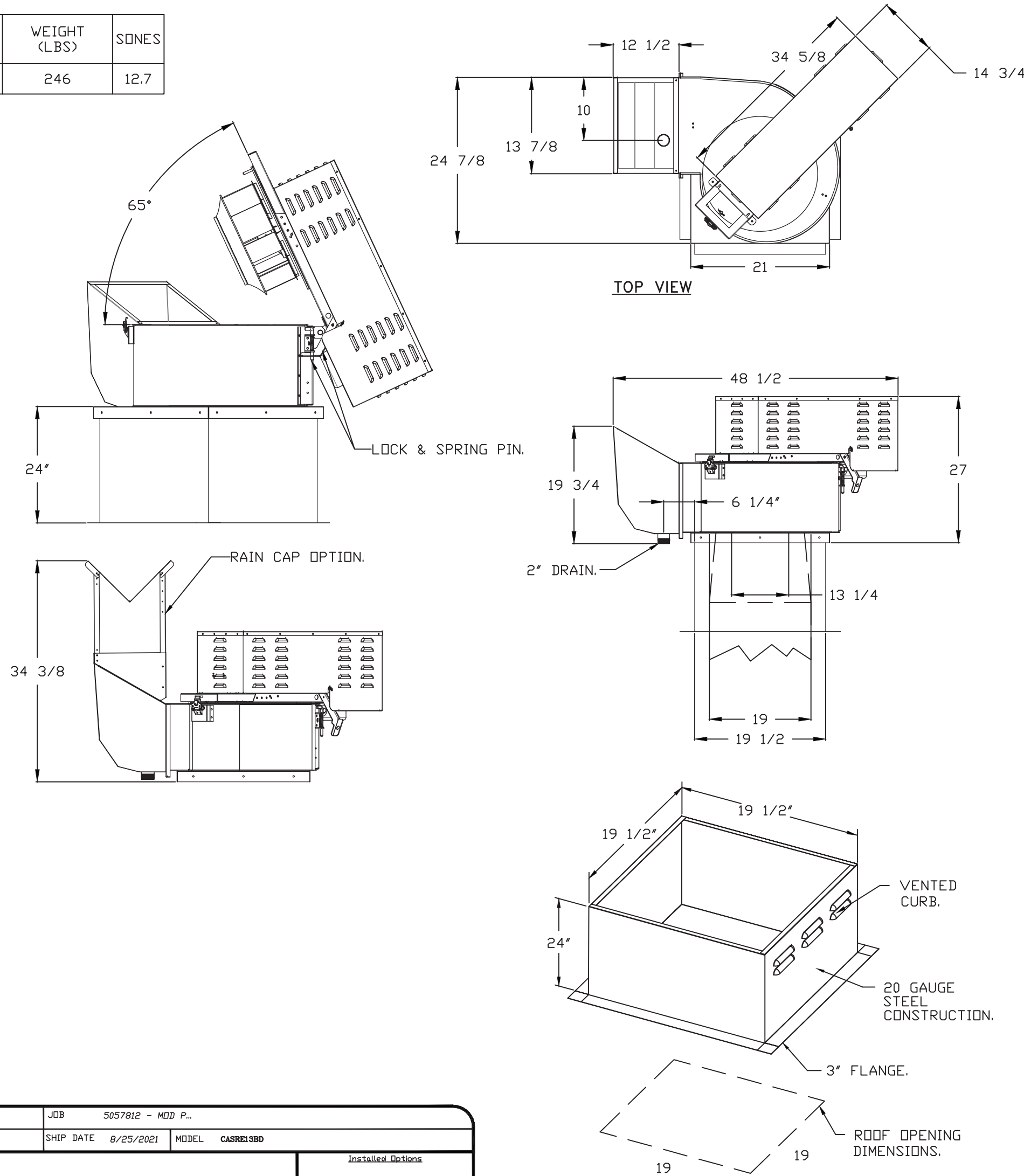
FAN UNIT NO	TAG	EXHAUST				SUPPLY		
		GREASE CUP	GRAVITY DAMPER	WALL MOUNT	SIDE DISCHARGE	GRAVITY DAMPER	MOTORIZED DAMPER	WALL MOUNT
1	EF	YES						

**CURB ASSEMBLIES**

NO	ON FAN	TAG	WEIGHT	ITEM	SIZE
1	# 1	EF	30 LBS	CURB	19.500"W X 19.500"L X 24.000"H VENTED.

ROOF / CURB

- 1) ROOF OPENING BY CONTRACTOR
- 2) ROOF MEMBRANE PATCH AND REPAIR AS DEFINED ON ARCHITECTURAL DRAWINGS
- 3) IF ROOF IS PITCHED, CONTRACTOR TO CONFIRM PITCH OF CURB REQUIRED. THIS NEEDS TO BE PROVIDED TO CAPTIVEAIRE PRIOR TO FABRICATION OF MATERIAL
- 4) CONTRACTOR TO ENSURE ELECTRICAL WHIP IS LONG ENOUGH FOR FAN TO FULLY HINGE OPEN FOR CLEANING AND SERVICE



**FEATURES:**

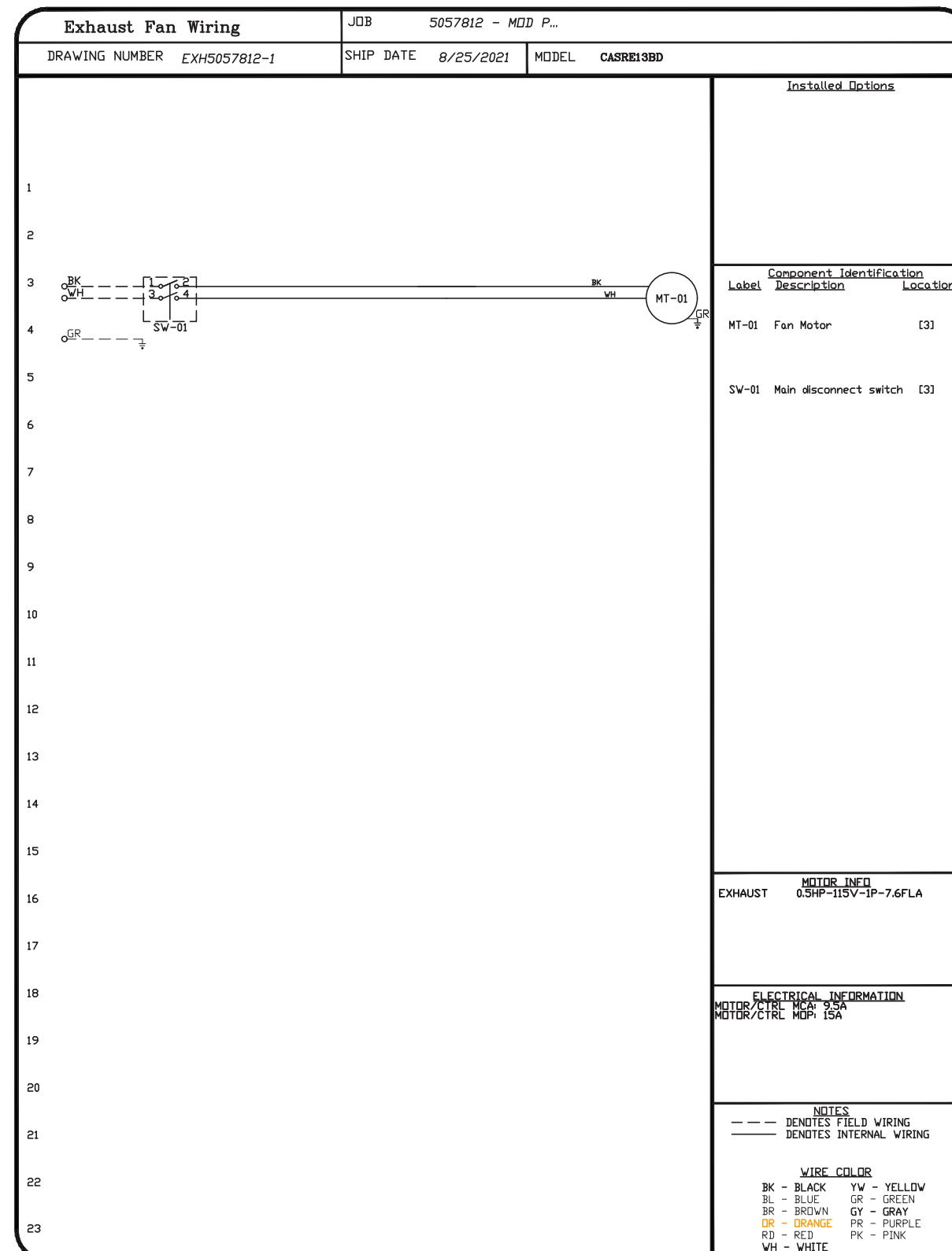
- ROOF MOUNTED FANS.
- RESTAURANT MODEL.
- UL762 AND ULC-S645.
- HIGH HEAT OPERATION BELT DRIVE 500°F (260°C).
- HEAT SLINGER.
- GREASE CLASSIFICATION TESTING.
- TILT OUT WHEEL.
- LOCKING PIN FOR POWER PACK.
- MOTOR WEATHER COVER.
- INTERLOCKED DISCONNECT SWITCH.
- NEMA 4X SAFETY DISCONNECT SWITCH.

**NORMAL TEMPERATURE TEST BELT DRIVE**  
EXHAUST FAN MUST OPERATE CONTINUOUSLY WHILE EXHAUSTING AIR AT 500°F (260°C) UNTIL ALL FAN PARTS HAVE REACHED THERMAL EQUILIBRIUM, AND WITHOUT ANY DETERIORATING EFFECTS TO THE FAN WHICH WOULD CAUSE UNSAFE OPERATION.

**ABNORMAL FLARE-UP TEST BELT & DIRECT DRIVE**  
EXHAUST FAN MUST OPERATE CONTINUOUSLY WHILE EXHAUSTING BURNING GREASE VAPORS AT 600°F (316°C) FOR A PERIOD OF 15 MINUTES WITHOUT THE FAN BECOMING DAMAGED TO ANY EXTENT THAT COULD CAUSE AN UNSAFE CONDITION.

**OPTIONS:**

- RE13BD - HIGH TEMPERATURE HEAT & SMOKE OPTION - 572°F CONTINUOUS. UTILITY SET GREASE CUP.
- EXTRA SET OF BELTS.
- FAN BASE CERAMIC SEAL - SHIP LOOSE - FOR GREASE DUCTS.
- RE11/13 - RAIN CAP ASSEMBLY - INCLUDES HARDWARE AND GASKET.
- 2 YEAR PARTS WARRANTY.



**REVISIONS**

NO	DESCRIPTION	DATE



2035 158th CT NE  
Suite 200  
Bellevue, WA 98008

ARCHITECT OF RECORD  
**INTERPLAN**  
INTERPLAN LLC  
ARCH COA #2015008774  
ENG COA #2005026904

ARCHITECTURE  
ENGINEERING  
PERMITTING

220 E. CENTRAL PKWY, STE 4000  
ALTAMONTE SPRINGS, FL 32701  
407.645.5008  
PROJECT NO. 2021.0524

CONSULTANT

FOR  
INFORMATION  
ONLY

SEAL

1309 Pacific Ave, Everett, WA, 98201 PHONE: (425) 212-5998 FAX: (425) 212-5998 EMAIL: reg85@captiveaire.com

MOD Pizza - Lee's Summit MO  
460 Nw Chipman Rd,  
Lee's Summit, MO, 64063

**MOD LEES SUMMIT**  
460 NW CHIPMAN RD  
LEES SUMMIT, MO 64086

ISSUED / REVISED DATE  
▲ BUILDING COMMENTS 10.18.21  
▲ DESIGN UPGRADES 10.18.21

**DATE:** 8/25/2021  
**DWG.#:** 5057812

**DRAWN BY:** RTB - 85

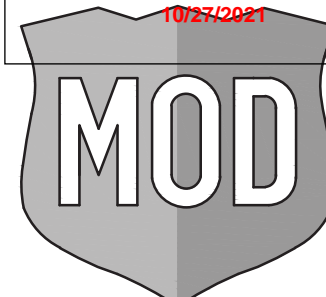
**SCALE:** 3/4" = 1'-0"

**MASTER DRAWING**

PERMIT SET 09.20.21

**SHEET NO.**  
4

**H-004**  
HOOD DRAWINGS



2035 158th CT NE  
Suite 200  
Bellevue, WA 98008

ARCHITECT OF RECORD  
**INTERPLAN**  
INTERPLAN LLC  
ARCH COA #2015008774  
ENG COA #2005026900

ARCHITECTURE ENGINEERING PERMITTING

220 E. CENTRAL PKWY, STE 4000  
ALTAMONTE SPRINGS, FL 32701  
407.645.5008  
PROJECT NO. 2021.0524

FOR INFORMATION ONLY

**MOD LEES SUMMIT**  
460 NW CHIPMAN RD  
LEES SUMMIT, MO 64086

ISSUED / REVISED DATE  
 ▲ BUILDING COMMENTS 10.18.21  
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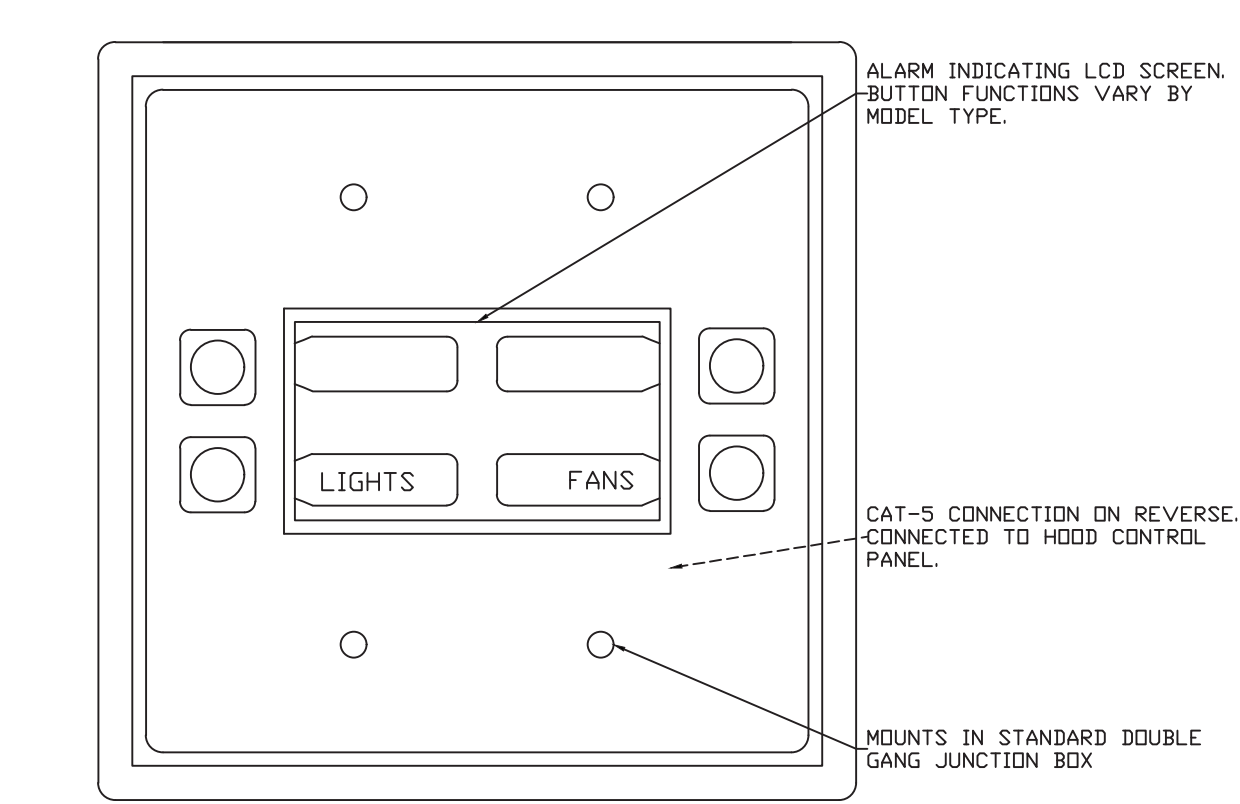
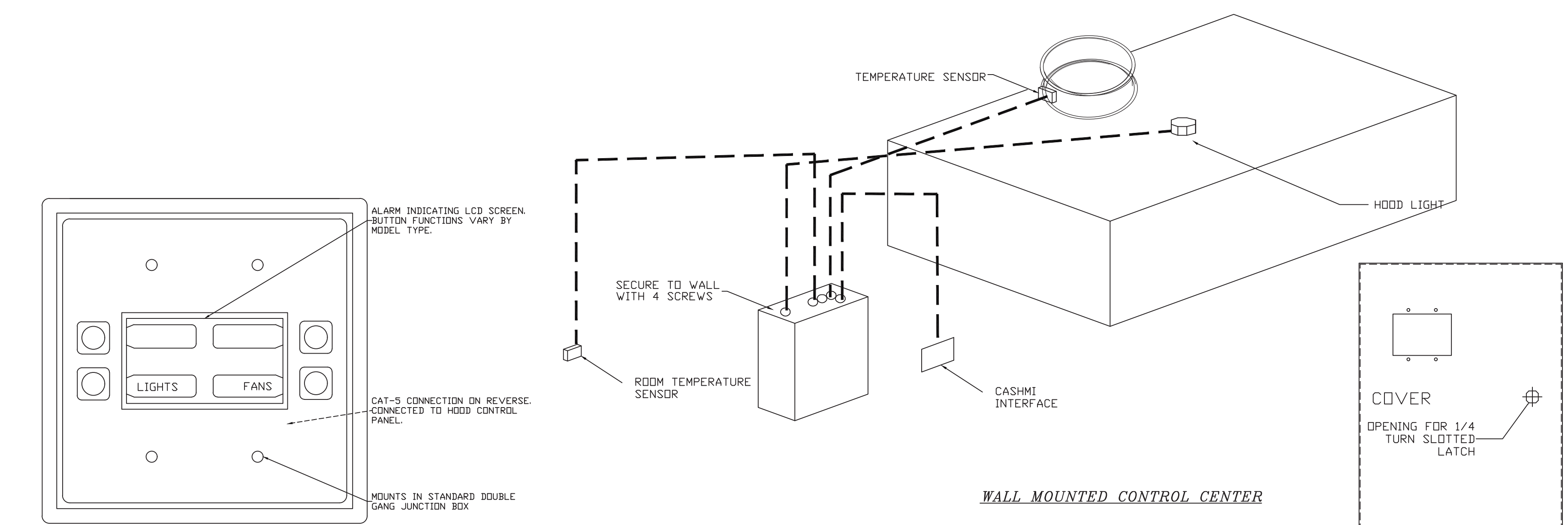
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 DRAWN BY: RTB - 85  
 SCALE: 3/4" = 1'-0"  
 MASTER DRAWING

PERMIT SET 09.20.21  
**H-005**  
 HOOD DRAWINGS

**ELECTRICAL PACKAGE - JOB#5057812**

NO	TAG	PACKAGE #	LOCATION	SWITCHES		OPTION	FANS CONTROLLED					
				LOCATION	QUANTITY		FAN TAG	TYPE	Φ	HP	VOLTS	FLA
1		SC-11010MA	WALL MOUNT IN SS BOX	08 - SHIP LOOSE W/ PREWIRE	1 LIGHT 1 FAN	SMART CONTROLS THERMOSTATIC CONTROL W/ RELAY ON/OFF WITH SUPPLY	EF	EXHAUST	1	0.500	115	7.6

Locate Electrical box on the wall 14x18x6"  
 Locate HMI in double gang box on the wall and connect with RJ45 cable  
 Locate Room Temp sensor on wall 72" AFF, away from heat/cooling loads

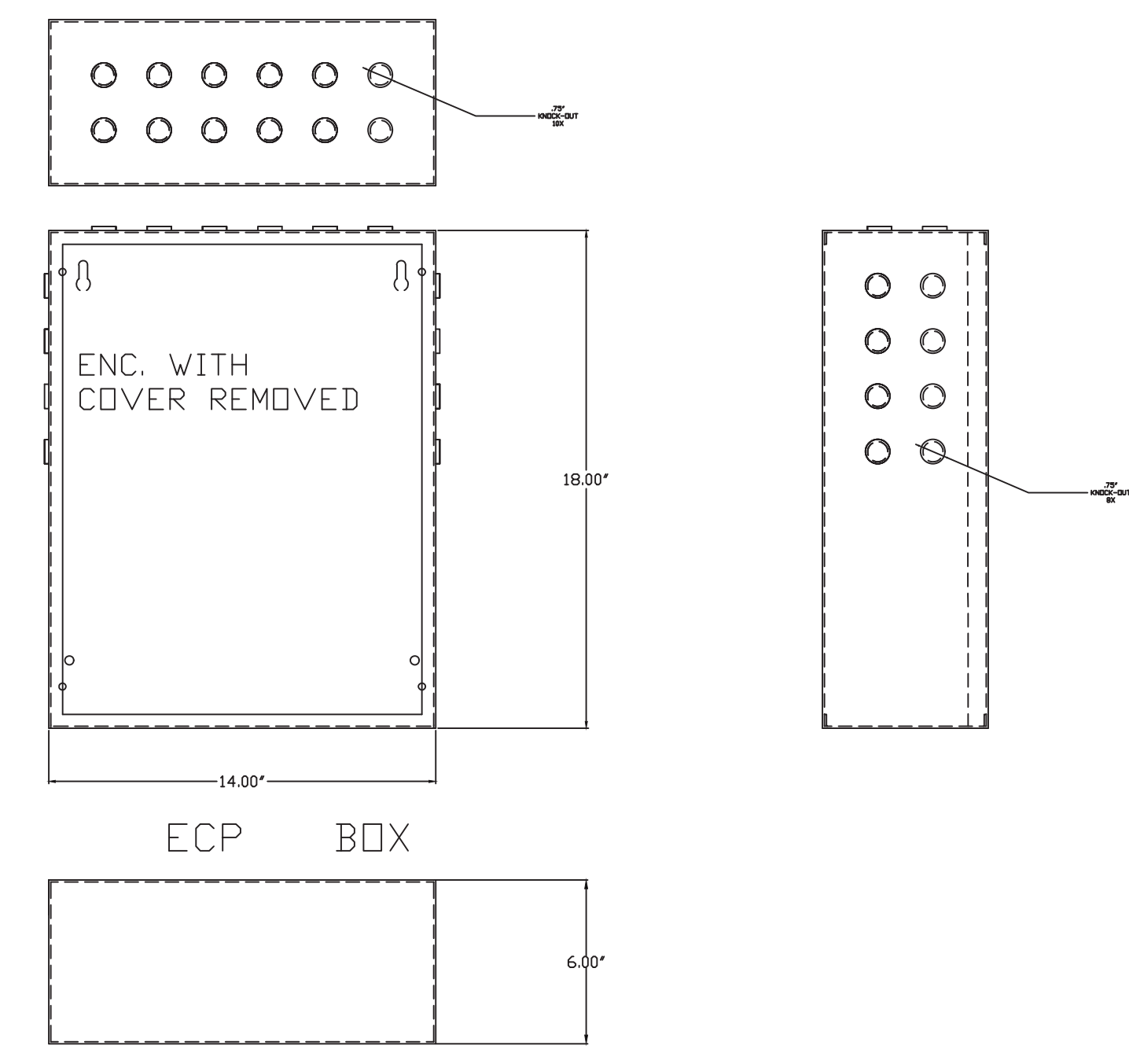


**HMI- (USER INTERFACE)**

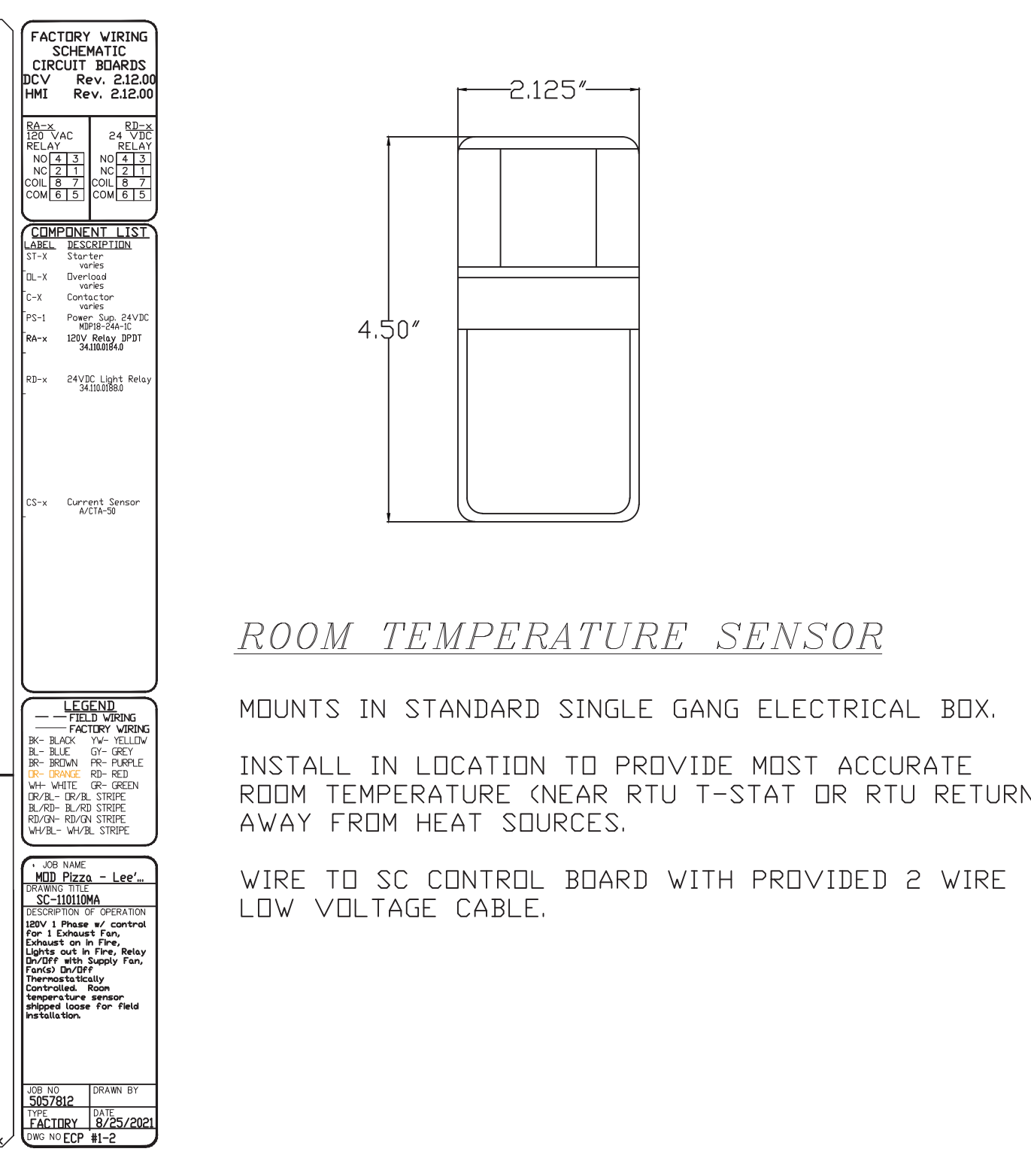
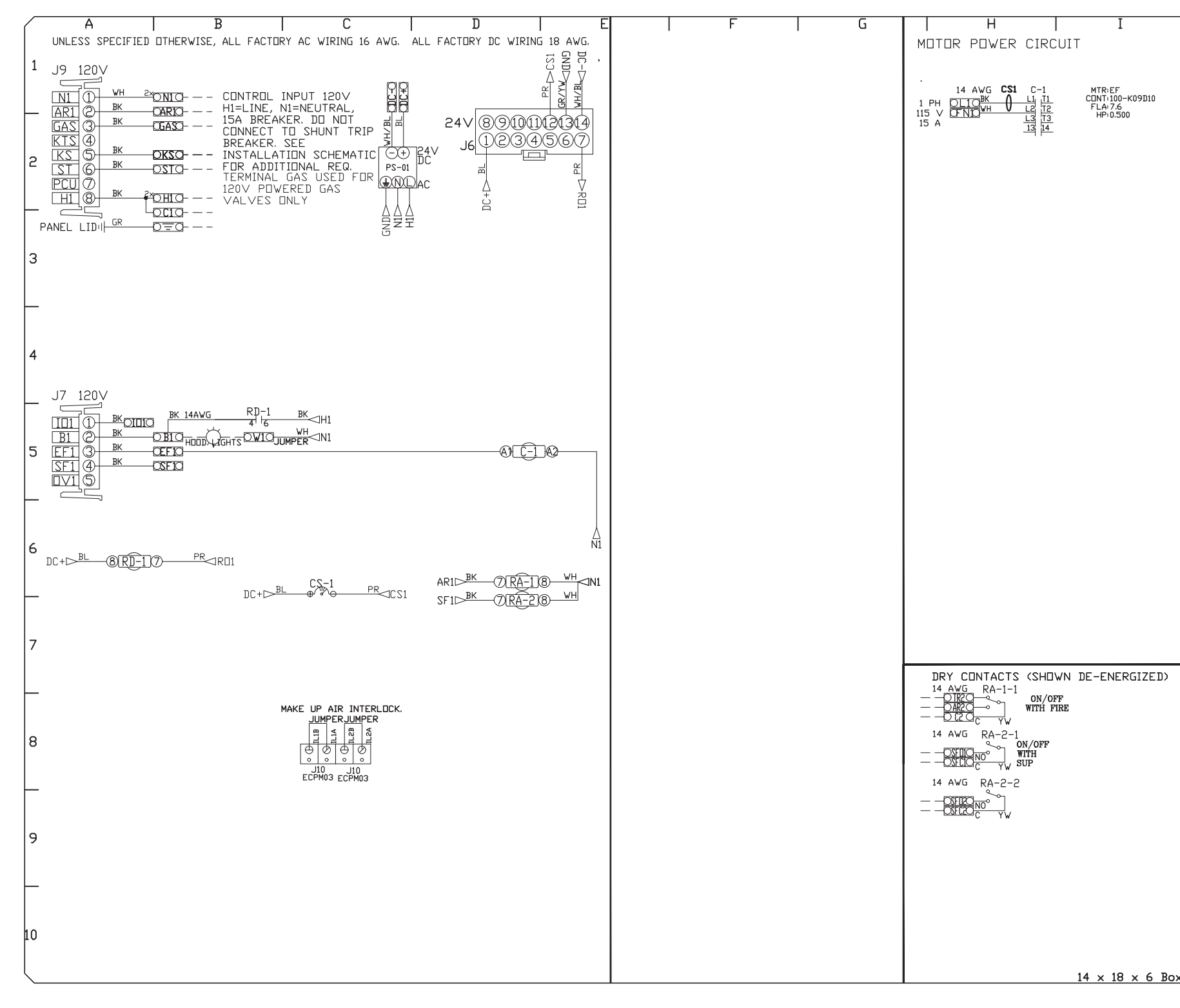
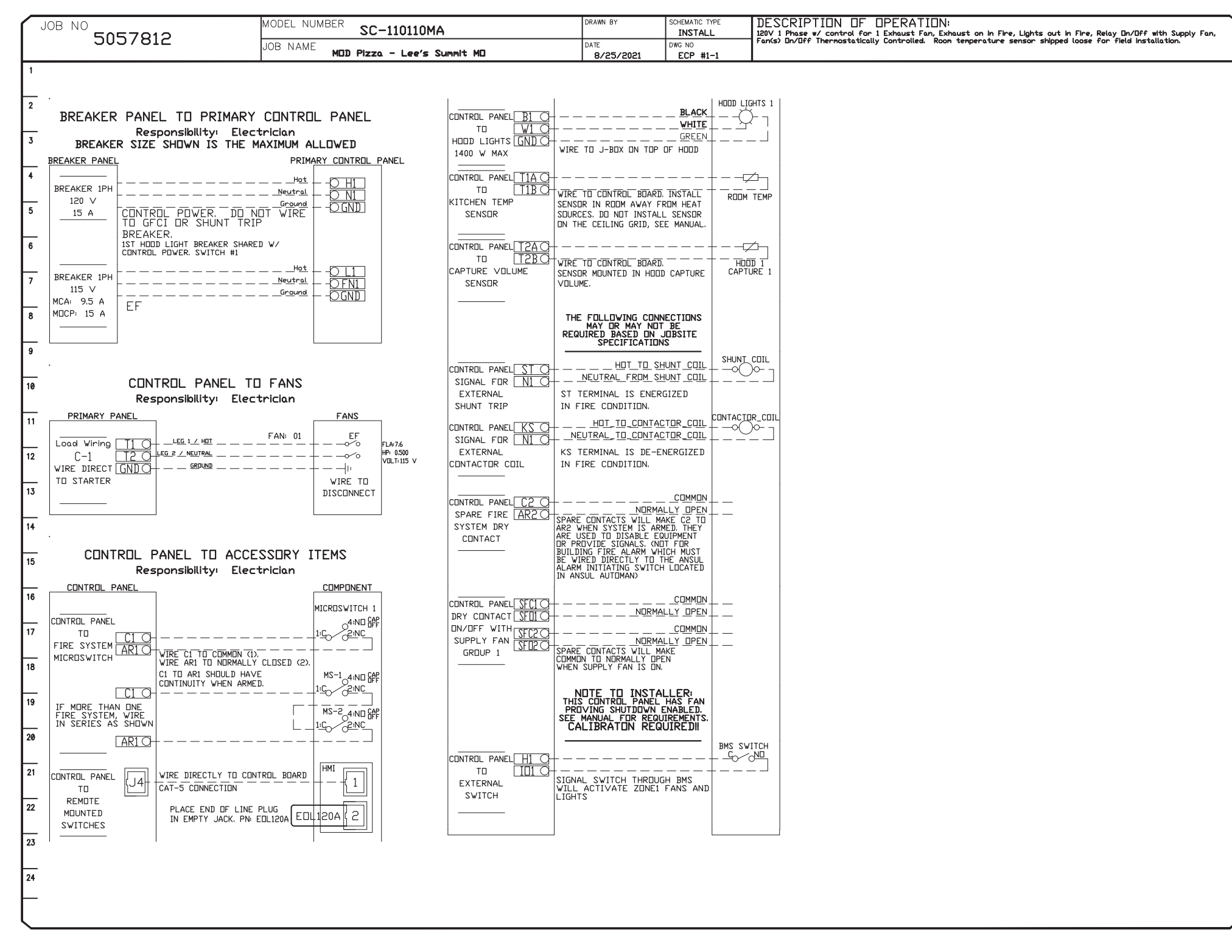
MOUNTS IN STANDARD 2 GANG BOX  
 CONFIRM LOCATION ON ARCH. DRAWING.  
 HMI CONNECTS TO SC CONTROL BOX WITH SUPPLIED RJ45 CABLE.

**SC-EXTERNAL COMPONENT DETAILS**

The Electrical Package, typically FP, is designed to thermostatically activate the exhaust fans for an exhaust hood whenever elevated temperatures are sensed in the exhaust system. This option will meet the requirements of IMC 507.2.1 by providing a thermostat(s) mounted in the duct on hood riser to sense increased exhaust temperatures. Controls shall be listed by ETL (UL 508A).  
 The control enclosure shall be NEMA 1 rated and listed for installation inside of the exhaust hood utility cabinet. The control enclosure may be constructed of stainless steel or painted steel.  
 Temperature probe(s) located in the duct riser shall be constructed of Stainless Steel. A room temperature sensor is also provided for field installation in the kitchen space in order to start the fan(s) based on the temperature differential between the room and the exhaust air in the duct, rather than fixed set-points. The system is factory pre-set to activate the Fans at 10 deg F above the room temperature.  
 Once the duct temperature reaches the activation point, the exhaust fans will be activated. The controls also provide hysteresis to prevent cycling of the fans after the cooking appliances have been turned off and the heat in the exhaust system is reduced. The hysteresis is factory set 2 degrees and will keep the exhaust running until the temperature falls 2 degrees below the activation set point. A hysteresis timer also exists to keep the Fans running for at least 30 min after being activated by the temperature rise.  
 The activation and hysteresis settings may be field adjusted on the board LCD interface located inside the control enclosure to meet application needs. The panel is factory configured to shut down supply Fans, turn on the exhaust fans and turn off the hood lights in a Fire condition.



**ECP BOX**



**ROOM TEMPERATURE SENSOR**

MOUNTS IN STANDARD SINGLE GANG ELECTRICAL BOX.  
 INSTALL IN LOCATION TO PROVIDE MOST ACCURATE ROOM TEMPERATURE (NEAR RTU T-STAT OR RTU RETURN) AWAY FROM HEAT SOURCES.  
 WIRE TO SC CONTROL BOARD WITH PROVIDED 2 WIRE LOW VOLTAGE CABLE.



DUCTWORK #1 PARTS - JOB#5057812 DOUBLE WALL

TAG	PART #	CFM	GPM	ZONE	COVEREDBY	SP	WEIGHT	VELOCITY	QTY	DESCRIPTION
P1	DW1229DWLT-2R-S	900				-0.007	36.05	1145.92	1	DOUBLE WALL DUCT - 12" INNER DUCT, 29' LONG - 2 LAYERS REDUCED CLEARANCE - 16" STAINLESS STEEL OUTER SHELL.
P2 ASSEMBLED W/P3	DW12DWTEASY-2R-S	900		1		-0.0468	34.13	1145.92	1	DOUBLE WALL DUCT - 12" INNER TEE DUCT - 2 LAYERS REDUCED CLEARANCE - 16" STAINLESS STEEL OUTER SHELL.
P3 ASSEMBLED W/P2 D=S	DW12DWACCDORCOV-2R-S						18.57		1	DOUBLE WALL DUCT - 12" INNER ACCESS DOOR & 16" ACCESS DOOR COVER WITH CLAMPS - 2 LAYERS REDUCED CLEARANCE - 16" STAINLESS STEEL OUTER SHELL.
P4	DW1247DWLT-2R-S	900				-0.0107	54.71	1145.92	1	DOUBLE WALL DUCT - 12" INNER DUCT, 47' LONG - 2 LAYERS REDUCED CLEARANCE - 16" STAINLESS STEEL OUTER SHELL.
P5	DW1247DWAJD-2R-S	900				-0.0083	83.19	1145.92	1	DOUBLE WALL ADJUSTABLE DUCT - 12" INNER DUCT - 2 LAYERS REDUCED CLEARANCE - 16" STAINLESS STEEL OUTER SHELL. MIN LENGTH = 11' / MAX LENGTH = 48.5' / ADJUSTMENT = 30.5' / ADJUSTABLE SECTION MAY NEED TO BE CUT. INCLUDES SINGLE AND DOUBLE WALL "V" CLAMPS.
P6	DW1620SADKIT						6.53		1	DUCT - HORIZONTAL SADDLE SUPPORT KIT, USED WITH 16" DD - INCLUDES UNI-STRUT CUT TO LENGTH, DW1620SAD, & HARDWARE BAG 4.
P7	DW1620SADKIT						6.53		1	DUCT - HORIZONTAL SADDLE SUPPORT KIT, USED WITH 16" DD - INCLUDES UNI-STRUT CUT TO LENGTH, DW1620SAD, & HARDWARE BAG 4.
P8 ASSEMBLED W/P9	DW12DWTEASY-2R-S	900		1		-0.0432	34.13	1145.92	1	DOUBLE WALL DUCT - 12" INNER TEE DUCT - 2 LAYERS REDUCED CLEARANCE - 16" STAINLESS STEEL OUTER SHELL.
P9 ASSEMBLED W/P8 D=S	DW12DWACCDORCOV-2R-S						18.57		1	DOUBLE WALL DUCT - 12" INNER ACCESS DOOR & 16" ACCESS DOOR COVER WITH CLAMPS - 2 LAYERS REDUCED CLEARANCE - 16" STAINLESS STEEL OUTER SHELL.
P10	DW1247DWAJD-2R-S	900				-0.005	83.19	1145.92	1	DOUBLE WALL ADJUSTABLE DUCT - 12" INNER DUCT - 2 LAYERS REDUCED CLEARANCE - 16" STAINLESS STEEL OUTER SHELL. MIN LENGTH = 11' / MAX LENGTH = 48.5' / ADJUSTMENT = 30.5' / ADJUSTABLE SECTION MAY NEED TO BE CUT. INCLUDES SINGLE AND DOUBLE WALL "V" CLAMPS.
P11 ASSEMBLED W/P12	DW1235DWLTP-2R-S	900				-0.008	42.19	1145.92	1	DOUBLE WALL DUCT - 12" INNER DUCT, 35' LONG - 2 LAYERS REDUCED CLEARANCE - 16" STAINLESS STEEL OUTER SHELL - USED WITH TRANSITION PLATE.
P12 ASSEMBLED W/P11 SYSTEM AT P12	DW1912TP	900					6.27	1145.92	1	DUCT TO CURB TRANSITION, 19-1/2" CURB TO 12" DUCT, 16 GA ALUMINIZED STEEL. USED ON BDU11, DU25, 30 & 33.
	3M-2000PLUS						0.80		2	DUCT - 3M FIRE BARRIER 2000 PLUS SILICONE - USED AS SEALANT TO SEAL DUCT JOINTS.
	DW12DWCLASY-2R-S						6.44		2	DUCT - 12" DUCT - 16" DOUBLE "V" CLAMP - 2R INSULATION & SINGLE "V" CLAMP INCLUDED - REDUCED CLEARANCE.
TOTAL WEIGHT							438.54			

SYSTEM DESIGN VERIFICATION (SDV)

IF ORDERED, CAS SERVICE WILL PERFORM A SYSTEM DESIGN VERIFICATION (SDV) ONCE ALL EQUIPMENT HAS HAD A COMPLETE START UP PER THE OPERATION AND INSTALLATION MANUAL. TYPICALLY, THE SDV WILL BE PERFORMED AFTER ALL INSPECTIONS ARE COMPLETE.

ANY FIELD RELATED DISCREPANCIES THAT ARE DISCOVERED DURING THE SDV WILL BE BROUGHT TO THE ATTENTION OF THE GENERAL CONTRACTOR AND CORRESPONDING TRADES ON SITE. THESE ISSUES WILL BE DOCUMENTED AND FORWARDED TO THE APPROPRIATE SALES OFFICE. IF CAS SERVICE HAS TO RESOLVE A DISCREPANCY THAT IS A FIELD ISSUE, THE GENERAL CONTRACTOR WILL BE NOTIFIED AND BILLED FOR THE WORK. SHOULD A RETURN TRIP BE REQUIRED DUE TO ANY FIELD RELATED DISCREPANCY THAT CANNOT BE RESOLVED DURING THE SDV, THERE WILL BE ADDITIONAL TRIP CHARGES.

DURING THE SDV, CAS SERVICE WILL ADDRESS ANY DISCREPANCY THAT IS THE FAULT OF THE MANUFACTURER. SHOULD A RETURN TRIP BE REQUIRED, THE GENERAL CONTRACTOR AND APPROPRIATE SALES OFFICE WILL BE NOTIFIED. THERE WILL BE NO ADDITIONAL CHARGES FOR MANUFACTURER DISCREPANCIES.

REVISIONS

DESCRIPTION	DATE



MOD Pizza - Lee's Summit MO  
460 Nw Chipman Rd,  
Lee's Summit, MO, 64063

DATE: 8/25/2021

DWG.#: 5057812

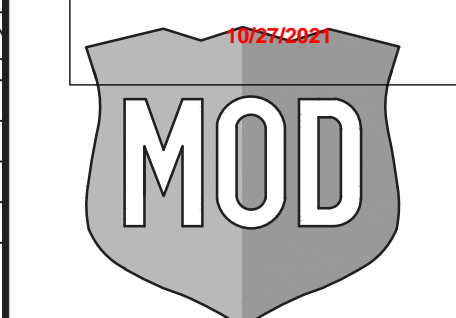
DRAWN BY: RTB - 85

SCALE: 3/4" = 1'-0"

MASTER DRAWING

SHEET NO. 6

RELEASE FOR CONSTRUCTION AS NOTED ON PLANS REVIEW DEVELOPMENT SERVICES LEE'S SUMMIT, MISSOURI



2035 158th CT NE  
Suite 200  
Bellevue, WA 98008

ARCHITECT OF RECORD



ARCH COA #2015008774  
ENG COA #2005026904

ARCHITECTURE  
ENGINEERING  
PERMITTING

220 E. CENTRAL PKWY, STE 4000  
ALTAMONTE SPRINGS, FL 32701  
407.645.5008  
PROJECT NO. 2021.0524

CONSULTANT

FOR  
INFORMATION  
ONLY

SEAL

MOD LEES SUMMIT  
460 NW CHIPMAN RD  
LEES SUMMIT, MO 64086

ISSUED / REVISED DATE

△ BUILDING COMMENTS 10.18.21  
△ DESIGN UPGRADES 10.18.21

PERMIT SET 09.20.21

H-006  
HOOD DRAWINGS

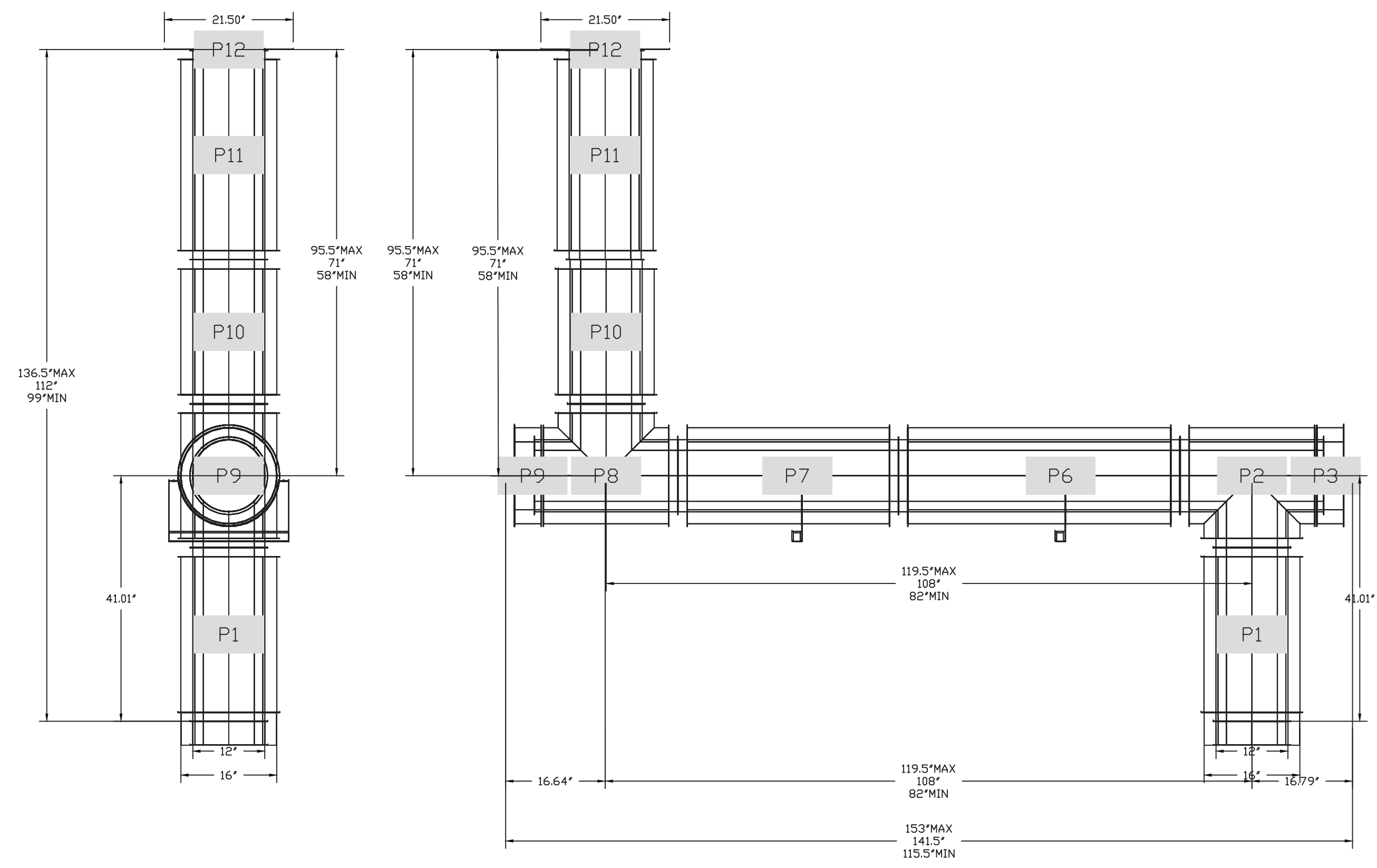
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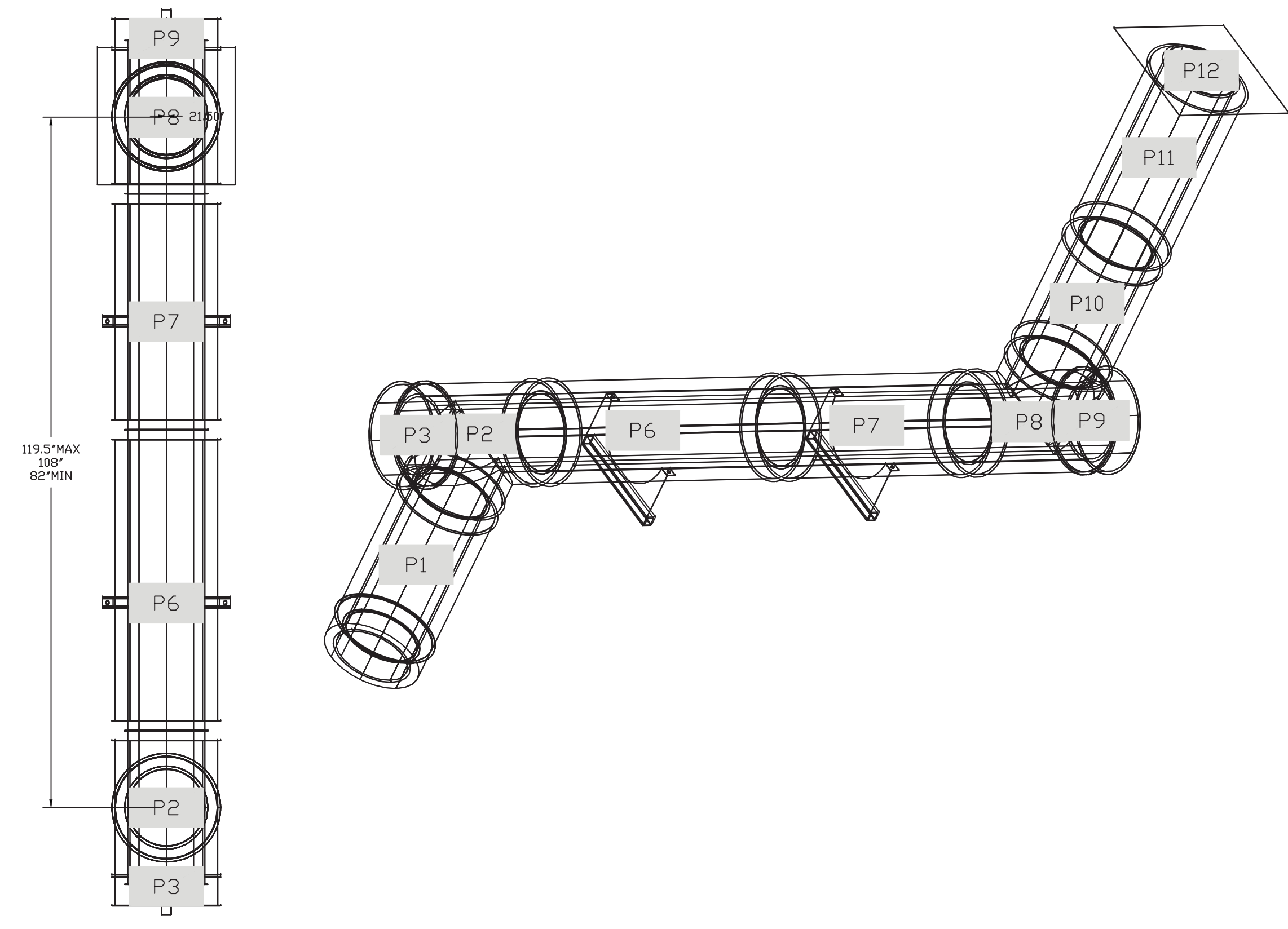
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DOUBLE WALL DUCTING CONFORMS TO NFPA-96 REQUIREMENTS AND COMPLIES WITH UL1978 and UL2221. ETL LISTED UNDER FILE NUMBER 1000082319SAT-006 EEV

DUCTWORK #1 FRONT VIEW DUCTWORK #1 SIDE VIEW



DUCTWORK #1 TOP VIEW DUCTWORK #1 SE VIEW



**REVISIONS**

DESCRIPTION	DATE

**CAPTIVE**  
 Seattle Office  
 1309 Pacific Ave, Everett, WA, 98201 PHONE: (425) 212-5996 EMAIL: reg85@captiveair.com



2035 158th CT NE  
 Suite 200  
 Bellevue, WA 98008

ARCHITECT OF RECORD  
**INTERPLAN**  
 INTERPLAN LLC  
 ARCH COA #2015008774  
 ENG COA #2005026904

ARCHITECTURE  
 ENGINEERING  
 PERMITTING

220 E. CENTRAL PKWY, STE 4000  
 ALTAMONTE SPRINGS, FL 32701  
 407.645.5008  
 PROJECT NO. 2021.0524

FOR  
 INFORMATION  
 ONLY

MOD Pizza - Lee's Summit MO  
 460 NW Chipman Rd,  
 Lee's Summit, MO, 64063

**MOD LEES SUMMIT**  
 460 NW CHIPMAN RD  
 LEES SUMMIT, MO 64086

**DATE:** 8/25/2021  
**DWG.#:** 5057812  
**DRAWN BY:** RTB - 85  
**SCALE:** 3/4" = 1'-0"  
**MASTER DRAWING**

ISSUED / REVISED	DATE
△ BUILDING COMMENTS	10.18.21
△ DESIGN UPGRADES	10.18.21

**SHEET NO.**  
7

PERMIT SET 09.20.21

**H-007**  
HOOD DRAWINGS