






- GENERAL NOTES - FINISH PLANS:**
- 1. RE: SHEET G-011-1 FOR ADDITIONAL GENERAL NOTES THAT ARE APPLICABLE.
 - 2. RE: FINISH LEGEND, AND FLOOR FINISH AND FINISH SPECIFIC FINISH INFORMATION AND LOCATIONS.
 - 3. RE: FINISH DETAILS SHEET A501 FOR ADDITIONAL FINISH AND FLOOR TRANSITION CONDITIONS.
 - 4. RE: FINISH DETAILS SHEET A501 FOR ADDITIONAL FINISH AND FLOOR PROTECTION DETAILS.
 - 5. FLOOR FINISHES SHOWN ARE FOR AGENT AND FINISH ONLY. / FINISH TRACES FOR ADDITIONAL INFORMATION.
 - 6. FLOOR FINISH PATTERN SHALL BE IDENTIFIED IN F.I.M. / FINISHES NOTED OTHERWISE.
 - 7. ALL WALL BASE JOINTS WITH FLOOR TILE JOINTS, UNLESS NOTED OR SHOWN OTHERWISE.
 - 8. ALL PARTS AND ALCOVES WITHOUT A SPACE IDENTIFICATION NUMBER SHALL HAVE THE SAME FLOOR FINISHES AS ADJACENT SPACES.
 - 9. FLOOR FINISH MATERIAL AND / OR PATTERN SHALL BE INSTALLED UNDER TOE KICKS OF BASEBOARD MOLDINGS TO THE OPEN COUNTERTOPS, AND UNDER EQUIPMENT.
 - 10. FLOOR MATERIAL/ COLOR TRANSITIONS TO BASEBOARD MOLDINGS SHALL BE NOTED OR SHOWN OTHERWISE.
 - 11. RE: A501 FOR ALL FLOORING TRANSITION DETAILS. FINISH WALL PROTECTION DETAILS.
 - 12. CONTRACTOR SHALL PROVIDE ALL NECESSARY BLOCKING FOR WALL PROTECTION ATTACHMENT. THIS INCLUDES, BUT IS NOT LIMITED TO, HANDS, RE: MANUFACTURER'S GUIDELINES FOR CLARIFICATIONS.
 - 13. CONTRACTOR SHALL PROVIDE MANUFACTURER'S STANDARD ACCESSORY MOLDING OR TRIM FOR WALL PROTECTION ATTACHMENT. HANDS SHALL BE NOTED IF WALL IS LESS THAN 18" WIDE DO NOT PROVIDE HANDRAIL. HANDRAILS SHOULD BE NOTED FOR CROWN MOULDING. OPEN SWING OF A DOOR HANDRAILS SHOULD STOP APPROXIMATELY 3" FROM A CORNER OF THE SHEET.
 - 14. CONTRACTOR SHALL PROVIDE BLOCKING FOR ALL WALL MOUNTED EQUIPMENT. RE: A-022 FOR CLARIFICATION.
 - 15. CONTRACTOR SHALL PROVIDE BLOCKING FOR ALL WALLS AS CALLED OUT ON ELEVATIONS.

ROOM FINISH TAG KEY LEGEND	
ROOM 000	
FLOOR FINISH	
WALL BASE	
WALL FINISH	
CEILING FINISH	

WALL FINISH LEGEND	
	CORNER GUARD (PC)
	ACCENT PAINT (WP)
	WALL TILE (WT)
	FABRIC WRAPPED PANELS (SF)
	SPECIALTY WALLS (S-)

NOT ALL WALL FINISHES ARE SHOWN GRAPHICALLY. REFER TO SHEETS A-601, A-602, A-603 AND SERIES A-45100 FOR SPECIFIC LOCATIONS AND MATERIALS

FLOOR FINISH LEGEND	
	FA1/FC
	FA1/FVT2
	FC
	FA2
	FE
	FER
	FR
	FT
	FVT1
	FVT2
	FZ

RE: FINISH SCHEDULE

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LEE'S SUMMIT, MISSOURI 64086

PACKAGE 2: CONSTRUCTION SET

REVISION DATES:

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PROFESSIONAL SEAL

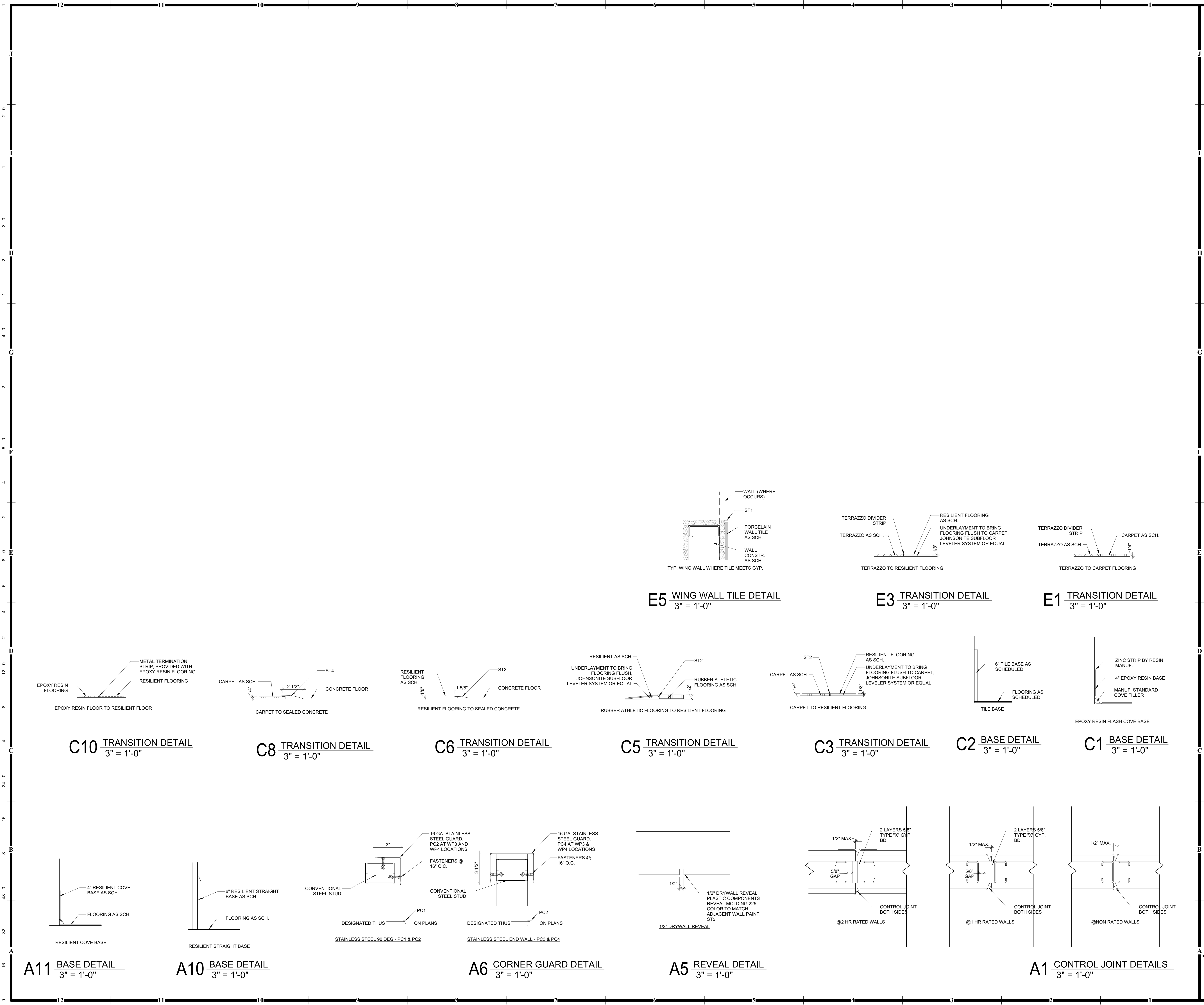
AI102

ISSUE DATE: NOVEMBER 1, 2024
HOEFER WELKER #: 138191

MAIN LEVEL - FINISH PLAN



A1 MAIN LEVEL FINISH PLAN
1/8" = 1'-0"



GENERAL NOTES - INTERIOR FINISHES:




- 1. RE: SHEET G-011 FOR ADDITIONAL GENERAL NOTES THAT ARE APPLICABLE.
- 2. RE: AC SHEETS G-012 THROUGH G-014 FOR ADDITIONAL CEILING FINISH INFORMATION.
- 3. RE: A-451 SERIES SHEETS FOR ADDITIONAL WALL FINISH INFORMATION.
- 4. RE: A-51 SERIES SHEETS FOR ADDITIONAL FLOOR FINISH & WALL PROTECTION INFORMATION.
- 5. WHERE MULTIPLE FINISHES ARE LISTED IN ONE AREA OR ON ONE ROOM, REFER TO THE SCHEDULE, REFER TO THE A-451 AND A-51 SERIES SHEETS FOR FINISH DESCRIPTION, AND FOR ALL INTERIOR QP, BD, SURFACES SHALL RECEIVE EGGSHELL/ SATIN FINISH LATEX PAINT, UNLESS NOTED OTHERWISE.
- 6. INTERIOR QP, BD, SURFACES TO RECEIVE POLY PAST SHALL HAVE A SATIN FINISH, UNLESS NOTED OR SPECIFIED OTHERWISE.
- 7. METAL SURFACES SHALL RECEIVE POLY PAST WALL TIE MEETS PAINTED QP, BD, WALL IN ALL VERTICAL AND/OR HORIZONTAL CONDITIONS, UNLESS NOTED OTHERWISE.
- 8. HOLLOW METAL FRAMES SHALL RECEIVE SEMI-GLOSS FINISH.
- 9. WHERE PORCELAIN OR GLASS WALL TILES OF DIFFERENT THICKNESSES MEET, ENSURE THAT THE EDGES OF THE DIFFERENT TILES ARE FLUSH.

FINISH LEGEND					
SYMBOL	MATERIAL	FINISH SPEC	TYP. AREA / REMARKS	CONTACT	
WALL PROTECTION					
PC1	STAINLESS STEEL CORNER GUARD - 90 DEGREE, 6" - 0" H	MANF: CONSTRUCTION SPECIALTIES STYLE: CO-8 COLOR: STAINLESS STEEL, SATIN FINISH SIZE: 3" WING INSTALLATION: INSTALL AT TOP OF WALL BASE		NAME: RICK STINGLEY PHONE: 816.536.0229 EMAIL: RICK.S@CLOUTMANANDSTINGLEY.COM	
PC2	STAINLESS STEEL CORNER GUARD - 90 DEGREE, 6" - 0" H	MANF: CONSTRUCTION SPECIALTIES STYLE: CO-8 COLOR: METAL POWDER COAT - GRAY HAMMERTONE #004 SIZE: 3" WING INSTALLATION: INSTALL AT TOP OF WALL BASE	AT WP3 & WP4 LOCATIONS	NAME: RICK STINGLEY PHONE: 816.536.0229 EMAIL: RICK.S@CLOUTMANANDSTINGLEY.COM	
PC3	STAINLESS STEEL CORNER GUARD - END WALL, 6" - 0" H	MANF: CONSTRUCTION SPECIALTIES STYLE: SC0-8 COLOR: STAINLESS STEEL, SATIN FINISH SIZE: 3 1/2" END WALL INSTALLATION: INSTALL AT TOP OF WALL BASE		NAME: RICK STINGLEY PHONE: 816.536.0229 EMAIL: RICK.S@CLOUTMANANDSTINGLEY.COM	
PC4	STAINLESS STEEL CORNER GUARD - END WALL, 6" - 0" H	MANF: CONSTRUCTION SPECIALTIES STYLE: SC0-8 COLOR: METAL POWDER COAT - GRAY HAMMERTONE #004 SIZE: 3 1/2" END WALL INSTALLATION: INSTALL AT TOP OF WALL BASE	AT WP3 & WP4 LOCATIONS	NAME: RICK STINGLEY PHONE: 816.536.0229 EMAIL: RICK.S@CLOUTMANANDSTINGLEY.COM	
MILLWORK / CASEWORK					
ML1	PLASTIC LAMINATE	MANF: WILSONART STYLE: PREMIUM LAMINATE COLOR: MANGALORE MANGO 7984-38 EDGE BAND: .018" PVC TO MATCH		NAME: MANDY BRIDGES PHONE: 913.484.2691 EMAIL: MANDY.BRIDGES@VIRGINIATILE.COM	
ML2	PLASTIC LAMINATE	MANF: WILSONART STYLE: PREMIUM LAMINATE COLOR: SLATE GREY D91-60 EDGE BAND: .018" PVC TO MATCH		NAME: MANDY BRIDGES PHONE: 913.484.2691 EMAIL: MANDY.BRIDGES@VIRGINIATILE.COM	
MQ	QUARTZ SURFACE	MANF: WILSONART STYLE: QUARTZ COLOR: HAIDA Q4008 THICKNESS: 3CM COUNTERTOPS, 2CM BACKSPLASHES	EXTERIOR COUNTERTOP	NAME: MANDY BRIDGES PHONE: 913.484.2691 EMAIL: MANDY.BRIDGES@VIRGINIATILE.COM	
MS	GRANITE SURFACE	MANF: STONE SOURCE STYLE: GRANITE COLOR: SILVER GREY THICKNESS: 3CM COUNTERTOP		NAME: MITCH KALMAR PHONE: 314.282.4858 EMAIL: MKALMAR@STONESOURCE.COM	
MST	STAINLESS STEEL	MANF: STYLE: SATIN			
CEILING FINISH					
CA1	ACOUSTICAL CEILING TILE W/ TEGULAR EDGE	MANF: ARMSTRONG CEILINGS STYLE: ULTIMA BEVELED TEGULAR 1952 COLOR: WHITE SIZE: 24" X 24" X 3/4" GRID: 9/16" SUPRAFINE		NAME: ELIZABETH MOON PHONE: 816.216.2890 EMAIL: EMOON@ARMSTRONGCEILINGS.COM	
CA2	ACOUSTICAL CEILING TILE W/ TEGULAR EDGE	MANF: ARMSTRONG CEILINGS STYLE: ULTIMA HIGH NRC BEVELED TEGULAR 1942 COLOR: WHITE SIZE: 24" X 24" X 7/8" GRID: 9/16" SUPRAFINE		NAME: ELIZABETH MOON PHONE: 816.216.2890 EMAIL: EMOON@ARMSTRONGCEILINGS.COM	
CE	GYPSUM BOARD CEILING - EPOXY	MANF: SHERWIN WILLIAMS STYLE: EPOXY, FLAT FINISH COLOR: HIGH REFLECTIVE WHITE SW7757		NAME: PETER KREMM PHONE: 303.902.7239 EMAIL: PETER.KREMM@SHERWIN.COM	
CM	METAL CEILING PANEL	MANF: BERRIDGE STYLE: VEP-PANEL COLOR: WALNUT	LOBBY/CANOPY PANELS TO BE PERFERATED AT INTERIOR APPLICATIONS WITH 6" ACOUSTICAL INSULATION ABOVE	NAME: BRENT BEAGLE PHONE: 913.227.0855 EMAIL: BEAGLE@BERRIDGE.COM	
CP1	GYPSUM BOARD CEILING	MANF: SHERWIN WILLIAMS STYLE: LATEX, FLAT FINISH COLOR: HIGH REFLECTIVE WHITE SW7757		NAME: PETER KREMM PHONE: 303.902.7239 EMAIL: PETER.KREMM@SHERWIN.COM	
CP2	GYPSUM BOARD CEILING	MANF: SHERWIN WILLIAMS STYLE: LATEX, FLAT FINISH COLOR: SILVERPLATE SW7649		NAME: PETER KREMM PHONE: 303.902.7239 EMAIL: PETER.KREMM@SHERWIN.COM	
CP3	GYPSUM BOARD CEILING	MANF: SHERWIN WILLIAMS STYLE: LATEX, FLAT FINISH COLOR: CITYSCAPE SW7067		NAME: PETER KREMM PHONE: 303.902.7239 EMAIL: PETER.KREMM@SHERWIN.COM	
CX	EXPOSED TO STRUCTURE	-			
SPECIALTY					
ELEVATOR FINISHES	COORDINATE W/ SPECS &/OR DRAWINGS	MANF: KONE WALLS: MANUFACTURER'S SPECIFIC BRUSHED STAINLESS STEEL FLOOR: TO MATCH FVT1		NAME: JONNY RICHARDSON PHONE: 816.337.2654 EMAIL: JONNY.RICHARDSON@KONE.COM	
SD1	INTERIOR DOORS - WOOD	MANF: TBD STYLE: CHERRY VENEER, PLAIN SLICED/BOOK MATCHED COLOR: STAINED TO MATCH ML1 (WILSONART MANGALORE MANGO 7984)	INTERIOR METAL DOORS AND INTERIOR FACE OF EXTERIOR DOORS	NAME: PETER KREMM PHONE: 303.902.7239 EMAIL: PETER.KREMM@SHERWIN.COM	
SD2	INTERIOR DOORS - METAL	MANF: SHERWIN WILLIAMS STYLE: ALKYD COLOR: SILVERPLATE SW7649	EXTERIOR FACE OF EXTERIOR METAL DOORS	NAME: PETER KREMM PHONE: 303.902.7239 EMAIL: PETER.KREMM@SHERWIN.COM	
SD3	EXTERIOR DOORS - METAL	MANF: SHERWIN WILLIAMS STYLE: ALKYD COLOR: IRON ORE SW7069		NAME: PETER KREMM PHONE: 303.902.7239 EMAIL: PETER.KREMM@SHERWIN.COM	
SD FRAME	INTERIOR HOLLOW METAL DOOR FRAMES	MANF: SHERWIN WILLIAMS STYLE: ALKYD COLOR: SILVERPLATE SW7649		NAME: PETER KREMM PHONE: 303.902.7239 EMAIL: PETER.KREMM@SHERWIN.COM	
SG	MIRROR	MANF: - STYLE: MIRRORRED GLASS THICKNESS: 1/4" SIZE: PER ELEVATIONS			
SL	METAL LOCKERS	MANF: TIFIN METAL PRODUCTS STYLE: TBD COLOR: GRAY SMOKE			
SO	OPERABLE PARTITION	MANF: KWIK-WALL - 3000 SERIES STYLE: 3000 COLOR: LINO, DRAPERIE, KCS-30		NAME: KAYLEIGH ICENOGLE PHONE: - EMAIL: ICENOGLE@KWIK-WALL.COM	
SP	TOILET PARTITIONS	MANF: BRADLEY STYLE: EURO STYLE PARTITIONS, HIGHRISE SERIES COLOR: PHENOLIC LT, COLOR SLATE GREY		NAME: SARAH HACKETT PHONE: 816.221.3322 EMAIL: SARAH.HACKETT@PATTERNSALES.BIZ	
SS	INTERIOR WINDOW SILLS - SOLID SURFACE	MANF: CORIAN THICKNESS: 1/2" COLOR: GLACIER ICE NOTE: EASED EDGES AT ALL WINDOW SILLS		NAME: KRISTY RINNE PHONE: 314.254.6634 EMAIL: KRINNE@HLLMARK.COM	
ST1	METAL EDGE TRIM	MANF: SCHLUTER STYLE: JOLLY COLOR: SATIN ANODIZED ALUMINUM (AE)		NAME: NIKKI VAN DYNE PHONE: 913.620.6098 EMAIL: NIKKI.VANDYNE@VIRGINIATILE.COM	
ST2	METAL EDGE TRIM	MANF: SCHLUTER STYLE: SCHIENE COLOR: SATIN ANODIZED ALUMINUM (AE)		NAME: NIKKI VAN DYNE PHONE: 913.620.6098 EMAIL: NIKKI.VANDYNE@VIRGINIATILE.COM	
ST3	RUBBER TRANSITION STRIP	MANF: ROPPE STYLE: #22 REDUCER STRIP 1/8" COLOR: 193 BLACK BROWN		NAME: WENDY BREMER PHONE: 630.277.1414 EMAIL: WABREMER@ROPPE.COM	
ST4	RUBBER TRANSITION STRIP	MANF: ROPPE STYLE: #38 GLUE-DOWN CARPET EDGE 1/4" COLOR: 193 BLACK BROWN		NAME: WENDY BREMER PHONE: 630.277.1414 EMAIL: WABREMER@ROPPE.COM	
ST5	GYPSUM REVEAL INSERT/PLASTIC TRIM	MANF: PLASTIC COMPONENTS STYLE: DRYWALL REVEAL 225 SIZE: 1/2" COLOR: PAINTED TO MATCH ADJACENT WALL			
SW1	WINDOW TREATMENT - ROLLER SHADES	MANF: MECOSHADE TYPE: MECOHS OPENNESS: 3% STYLE: THERMOVEIL - 1500 SERIES COLOR: GREY 1513	KEYNOTED IN RCP AS 12.24A	NAME: RYAN HELLING PHONE: 816.471.2559 EMAIL: RYAN@HARTKS.COM	
SW2	WINDOW TREATMENT - ROLLER SHADES DOUBLE POCKET	MANF: MECOSHADE TYPE: MECOHS DOUBLESHADE #15 TOP SHADE: CHELSEA BLACKOUT - 0250 SERIES, GRAPHITE 0253 BOTTOM SHADE: THERMOVEIL - 1500 SERIES, GREY 1513	KEYNOTED IN RCP AS 12.24B	NAME: RYAN HELLING PHONE: 816.471.2559 EMAIL: RYAN@HARTKS.COM	
SWF	DECORATIVE WINDOW FILM	MANF: SOLXY STYLE: GLASS WINDOW FILM COLOR: TBD	AT GLASS TYPE 7 LOCATIONS AND INTERIOR SIDE OF EXTERIOR WINDOW TYPE N	NAME: AARON LOTINSKY PHONE: 303.401.6000 EMAIL: CUSTOM@DECORATVEFILM.COM	

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GENERAL NOTES – FURNITURE & EQUIPMENT PLANS:

1. RE: SHEET G-011- FOR ADDITIONAL GENERAL NOTES THAT ARE APPLICABLE.
2. RE: SHEET G-021- FOR TYPICAL MOUNTING HEIGHTS
3. RE: SHEET A-401's- FOR ENLARGED TOILET ROOM PLANS.
4. RE: INTERIOR CASEWORK ELEVATIONS ON SHEETS A-451 FOR EQUIPMENT LOCATIONS.
5. ELECTRICAL DATA SHOWN FOR INFORMATION ONLY, RE: MEP SHEETS.

FFE LEGEND	
	FURNITURE
	EQUIPMENT
	TOILET ACCESSORIES TAG
	SPECIALTY EQUIPMENT TAG

LEE'S SUMMIT JOINT OPERATIONS FACILITY
2 NE TUDOR RD
LEE'S SUMMIT, MISSOURI 64086

PACKAGE 2: CONSTRUCTION SET

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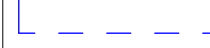

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A1 LOWER LEVEL FFE PLAN
1/8" = 1'-0"

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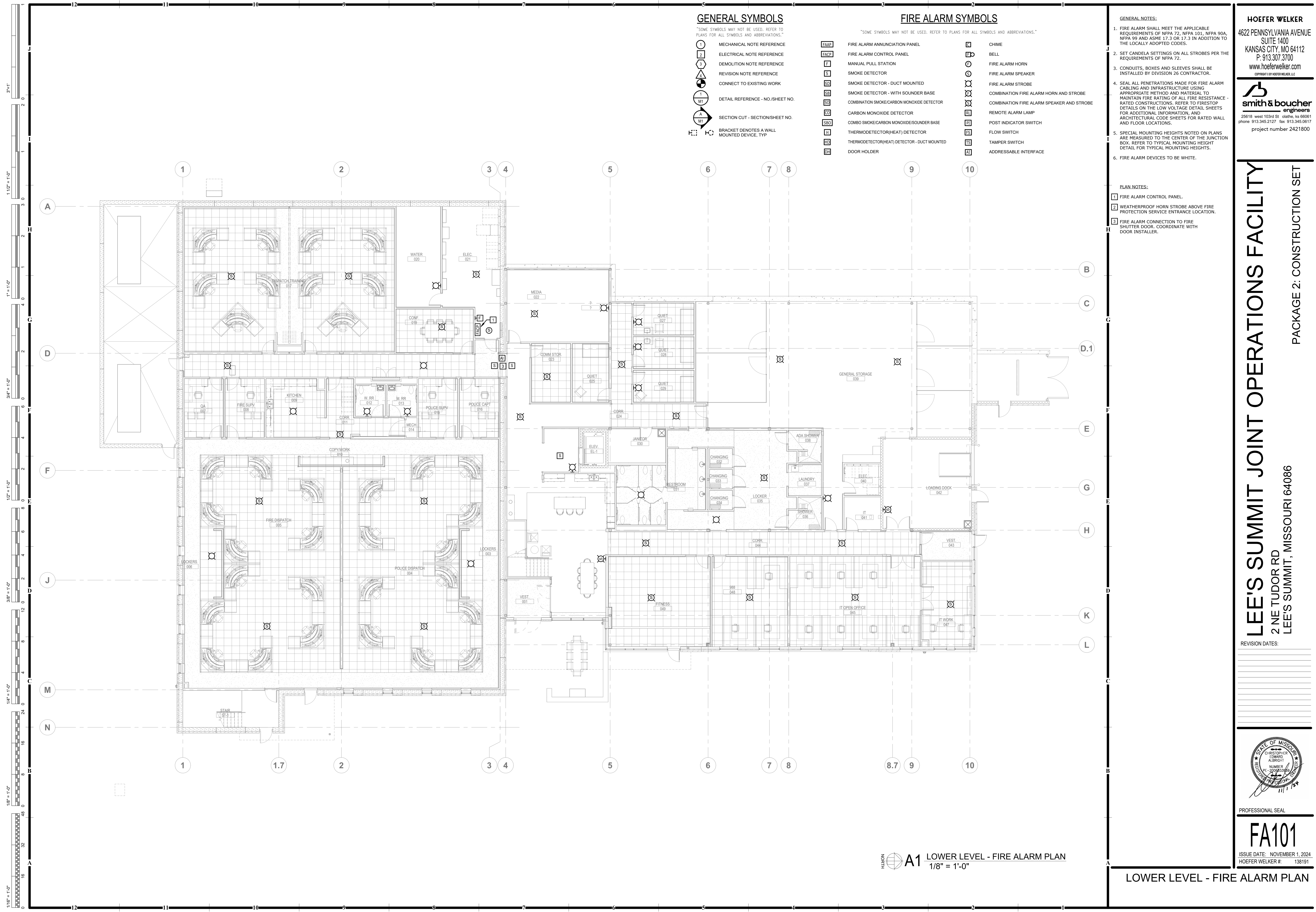
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A1 MAIN LEVEL FFE PLAN
1/8" = 1'-0"



GENERAL SYMBOLS

"SOME SYMBOLS MAY NOT BE USED, REFER TO PLANS FOR ALL SYMBOLS AND ABBREVIATIONS."

- MECHANICAL NOTE REFERENCE
- ELECTRICAL NOTE REFERENCE
- DEMOLITION NOTE REFERENCE
- REVISION NOTE REFERENCE
- CONNECT TO EXISTING WORK
- DETAIL REFERENCE - NO./SHEET NO.
- SECTION CUT - SECTION/SHEET NO.
- BRACKET DENOTES A WALL MOUNTED DEVICE, TYP

FIRE ALARM SYMBOLS

"SOME SYMBOLS MAY NOT BE USED, REFER TO PLANS FOR ALL SYMBOLS AND ABBREVIATIONS."

- FIRE ALARM ANNUNCIATION PANEL
- FIRE ALARM CONTROL PANEL
- MANUAL PULL STATION
- SMOKE DETECTOR
- SMOKE DETECTOR - DUCT MOUNTED
- SMOKE DETECTOR - WITH SOUNDER BASE
- COMBINATION SMOKE/CARBON MONOXIDE DETECTOR
- CARBON MONOXIDE DETECTOR
- COMBO SMOKE/CARBON MONOXIDE/SOUNDER BASE
- THERMDETECTOR(HEAT) DETECTOR
- THERMDETECTOR(HEAT) DETECTOR - DUCT MOUNTED
- DOOR HOLDER
- CHIME
- BELL
- FIRE ALARM HORN
- FIRE ALARM SPEAKER
- FIRE ALARM STROBE
- COMBINATION FIRE ALARM HORN AND STROBE
- COMBINATION FIRE ALARM SPEAKER AND STROBE
- REMOTE ALARM LAMP
- POST INDICATOR SWITCH
- FLOW SWITCH
- TAMPER SWITCH
- ADDRESSABLE INTERFACE

GENERAL NOTES:

- FIRE ALARM SHALL MEET THE APPLICABLE REQUIREMENTS OF NFPA 72, NFPA 101, NFPA 90A, NFPA 99 AND ASME 17.3 OR 17.3 IN ADDITION TO THE LOCALLY ADOPTED CODES.
- SET CANDELA SETTINGS ON ALL STROBES PER THE REQUIREMENTS OF NFPA 72.
- CONDUITS, BOXES AND SLEEVES SHALL BE INSTALLED BY DIVISION 26 CONTRACTOR.
- SEAL ALL PENETRATIONS MADE FOR FIRE ALARM CABLING AND INFRASTRUCTURE USING APPROPRIATE METHOD AND MATERIAL TO MAINTAIN FIRE RATING OF ALL FIRE RESISTANCE - RATED CONSTRUCTIONS. REFER TO FIRESTOP DETAILS ON THE LOW VOLTAGE DETAIL SHEETS FOR ADDITIONAL INFORMATION, AND ARCHITECTURAL CODE SHEETS FOR RATED WALL AND FLOOR LOCATIONS.
- SPECIAL MOUNTING HEIGHTS NOTED ON PLANS ARE MEASURED TO THE CENTER OF THE JUNCTION BOX. REFER TO TYPICAL MOUNTING HEIGHT DETAIL FOR TYPICAL MOUNTING HEIGHTS.
- FIRE ALARM DEVICES TO BE WHITE.

PLAN NOTES:

- FIRE ALARM CONTROL PANEL.
- WEATHERPROOF HORN STROBE ABOVE FIRE PROTECTION SERVICE ENTRANCE LOCATION.
- FIRE ALARM CONNECTION TO FIRE SHUTTER DOOR. COORDINATE WITH DOOR INSTALLER.

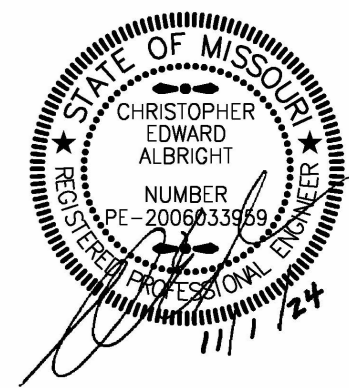
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project number 2421800

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LEE'S SUMMIT, MISSOURI 64086

REVISION DATES:

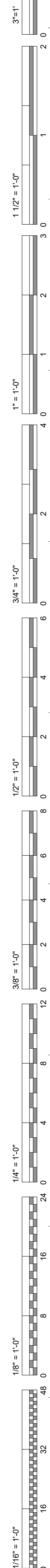


PROFESSIONAL SEAL

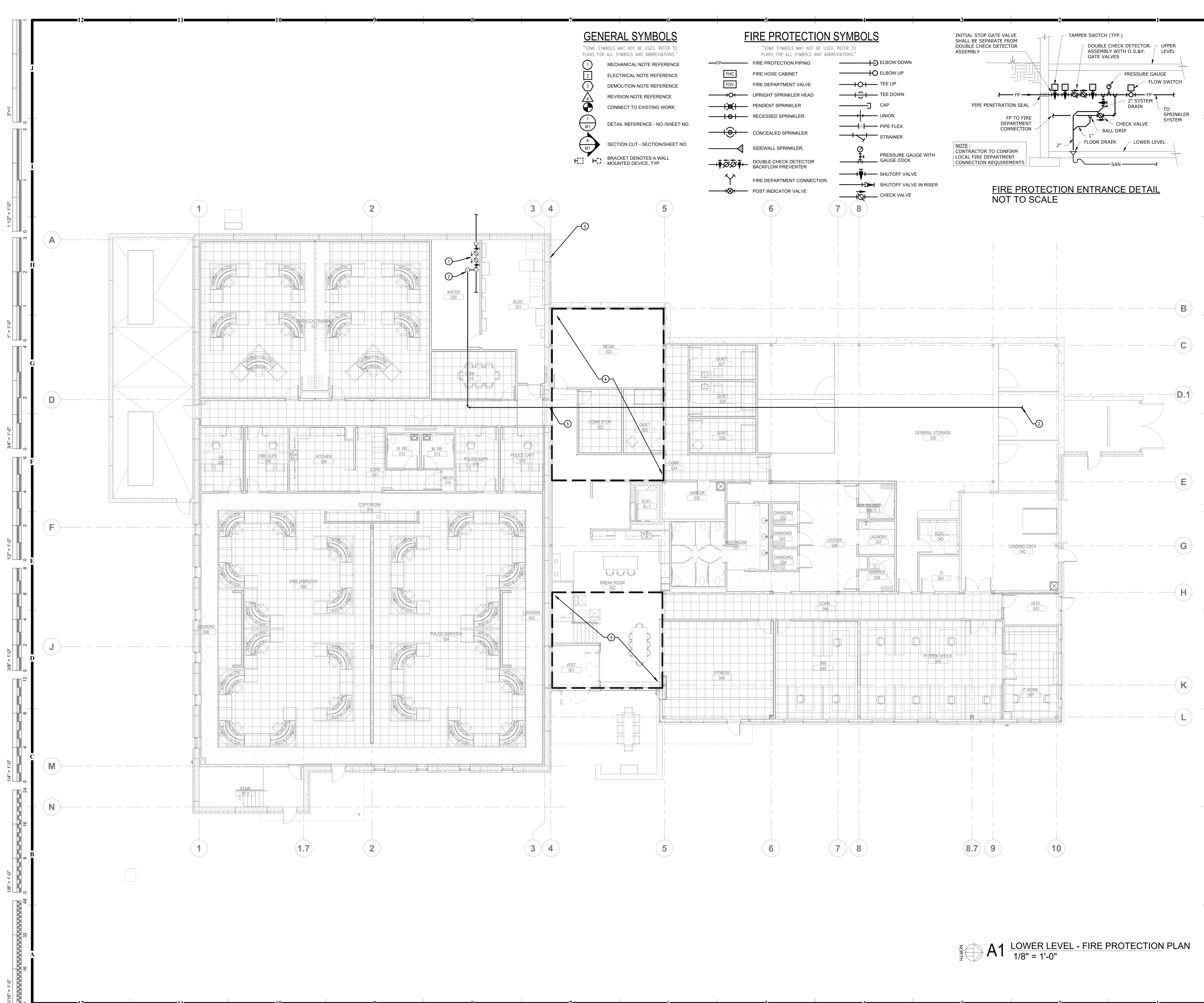
FA101

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LOWER LEVEL - FIRE ALARM PLAN



MAIN LEVEL - FIRE ALARM PLAN



GENERAL SYMBOLS

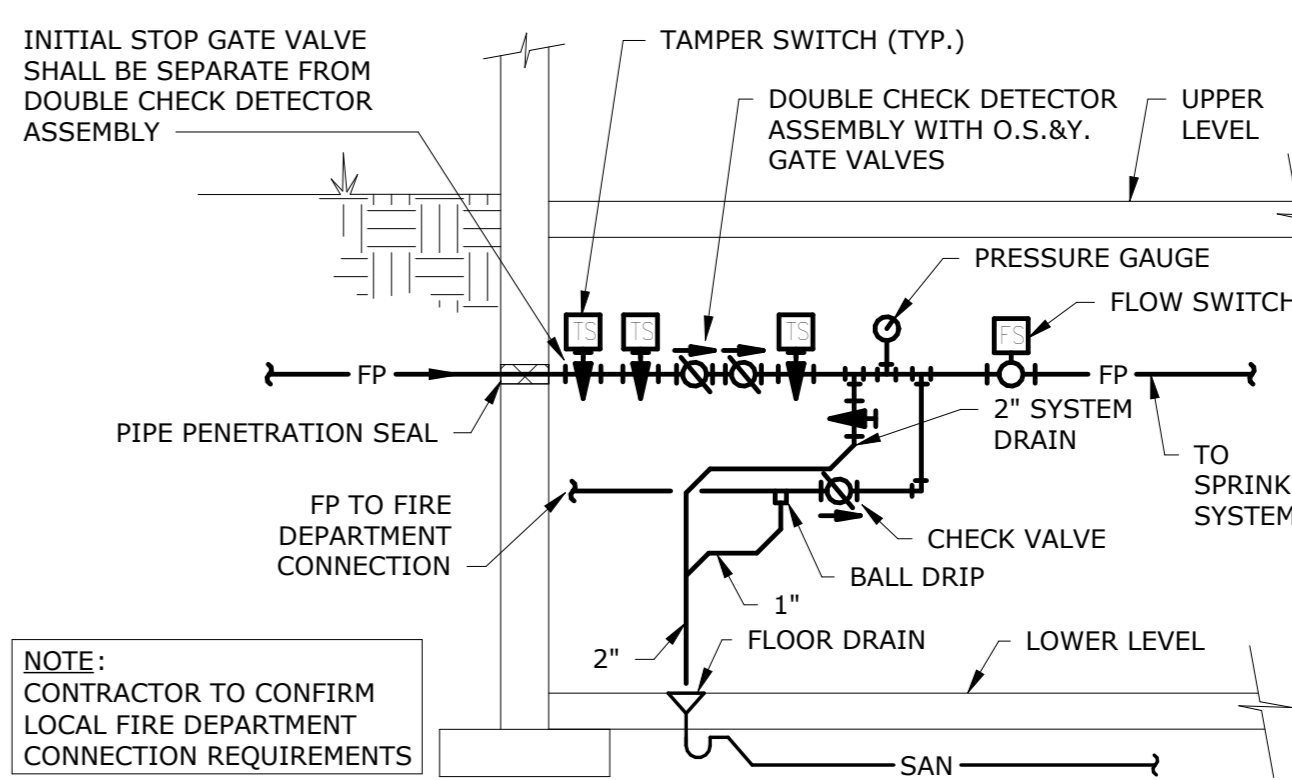
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- BRACKET DENOTES A WALL MOUNTED DEVICE, TYP.

FIRE PROTECTION SYMBOLS

"SOME SYMBOLS MAY NOT BE USED. REFER TO PLANS FOR ALL SYMBOLS AND ABBREVIATIONS."

- FIRE PROTECTION PIPING
- FIRE HOSE CABINET
- FIRE DEPARTMENT VALVE
- UPRIGHT SPRINKLER HEAD
- PENDENT SPRINKLER
- RECESSED SPRINKLER
- CONCEALED SPRINKLER
- SIDEWALL SPRINKLER
- DOUBLE CHECK DETECTOR BACKFLOW PREVENTER
- FIRE DEPARTMENT CONNECTION
- POST INDICATOR VALVE
- ELBOW DOWN
- ELBOW UP
- TEE UP
- TEE DOWN
- CAP
- UNION
- PIPE FLEX
- STRAINER
- PRESSURE GAUGE WITH GAUGE COCK
- SHUTOFF VALVE
- SHUTOFF VALVE IN RISER
- CHECK VALVE



FIRE PROTECTION ENTRANCE DETAIL
NOT TO SCALE

GENERAL NOTES:

- PROVIDE NFPA 13 COMPLIANT SPRINKLER SYSTEM FOR THE BUILDING.
- CAREFULLY COORDINATE PIPE ROUTING WITH STRUCTURE AS WELL AS ALL OTHER TRADES TO MAINTAIN EQUIPMENT CLEARANCES AND DESIRED CEILING HEIGHTS.
- ALL PIPING TO BE INSTALLED CONCEALED FROM VIEW UNLESS NOTED.
- PROVIDE PROTECTIVE CAGE OVER SPRINKLER HEADS LOCATED WITHIN 84" AFF & ALL CUSTODIAL, MECHANICAL, AND STORAGE ROOMS.
- SPRINKLER HEAD LOCATIONS SHALL BE COORDINATED WITH LIGHTS, DIFFUSERS, SOUND SYSTEM COMPONENTS AND OTHER ITEMS INSTALLED IN CEILING. LOCATION OF THESE DEVICES TAKES PRIORITY OVER SPRINKLER HEAD LOCATIONS. SHOW CLEARLY, THE RELATIONSHIP OF ALL CEILING MOUNTED DEVICES WITH THE SPRINKLER HEAD LOCATIONS WHEN SPRINKLER SHOP DRAWINGS ARE SUBMITTED FOR APPROVAL.
- SPRINKLER HEADS SHALL BE LOCATED IN CENTER OF LAY-IN CEILING GRIDS, ASSUMING 2x2 GRID FORMAT. SPRINKLER HEADS IN EXPOSED OR HARD CEILINGS SHALL BE LAID OUT IN A UNIFORM AND SYMMETRICAL PATTERN ACCEPTABLE WITH ARCHITECT AND/OR ENGINEER. SEE ARCHITECTURAL PLANS FOR TYPE OF CEILING INSTALLED.
- SPRINKLER DRAIN PIPING SHALL BE ROUTED IN CONCEALED SPACES TO OUTSIDE OR TO MOP SINKS ONLY. 2" TEST LINES MUST BE PIPED TO OUTSIDE. EXTERIOR DRAIN OUTLETS SHALL BE CHROME WITH HATCHING ESCUTCHEON AND THREADED HOSE FITTING, AND SHALL DISCHARGE ON SPLASH BLOCK AT 45-DEGREE ANGLE.
- WHERE AN EXISTING SURFACE MUST BE CUT, OR EXISTING UTILITIES INTERFERE, SUCH OBSTRUCTION SHALL BE BYPASSED, REMOVED, REPLACED OR RELOCATED, PATCHED, OR REPAIRED. WORK DISTURBED OR DAMAGED SHALL BE REPLACED OR REPAIRED TO ITS PRIOR CONDITION.
- PIPING SHALL BE SUITABLE FOR INSTALLATION IN A RETURN AIR PLENUM. COORDINATE WITH HVAC PLANS.
- COORDINATE ALL PIPING PENETRATIONS WITH STRUCTURAL PRIOR TO CORE DRILLING.
- PROVIDE FIRESTOPPING AT PENETRATIONS OF ALL RATED WALLS. REFER TO CODE PLANS FOR LOCATIONS OF RATED WALLS.
- PROVIDE ICC 500 RATED PIPING SHROUD FOR ALL PENETRATIONS THROUGH THE ICC 500 STRUCTURE FOR ALL PIPE PENETRATIONS OVER 2" IN DIAMETER.
- FIRE PROTECTION PLANS, SPRINKLER DRAWINGS, AND SPRINKLER CALCULATIONS MUST BE SIGNED BY A LICENSED REGISTERED FIRE PROTECTION CONTRACTOR ALLOWED TO WORK IN AREA OF JURISDICTION AND FOLLOW ALL LOCAL AND STATE CODES.
- REFER TO SPECIFICATIONS FOR ADDITIONAL INFORMATION.

PLAN NOTES:

- 6" FIRE PROTECTION SERVICE ENTRANCE AND BACKFLOW ASSEMBLY. REFER TO DETAIL. COORDINATE WITH THE DOMESTIC WATER SERVICE ENTRY, HYDRONIC PIPING, AND ALL EQUIPMENT. COORDINATE WITH CIVIL.
- FIRE PROTECTION PIPING TO REMOTE FIRE DEPARTMENT CONNECTION LOCATED OUTSIDE OF THE BUILDING. COORDINATE FIRE DEPARTMENT CONNECTION LOCATION AND PIPE ROUTING WITH CIVIL.
- COORDINATE PIPE ROUTING AT TWO-STORY BREAK ROOM.
- ROUTE PIPING BETWEEN SIDES WITHIN THIS PLENUM.
- COORDINATE ALL PENETRATIONS IN THE STORM SHELTER PRECAST PRIOR TO CONSTRUCTION. PRECAST PENETRATIONS CANNOT BE FIELD CUT.

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25618 west 103rd St. olathe, ks 66061
phone 913.345.2127 fax 913.345.0617
project number 2421800

LEE'S SUMMIT JOINT OPERATIONS FACILITY
2 NE TUDOR RD
LEE'S SUMMIT, MISSOURI 64086
PACKAGE 2: CONSTRUCTION SET

REVISION DATES:

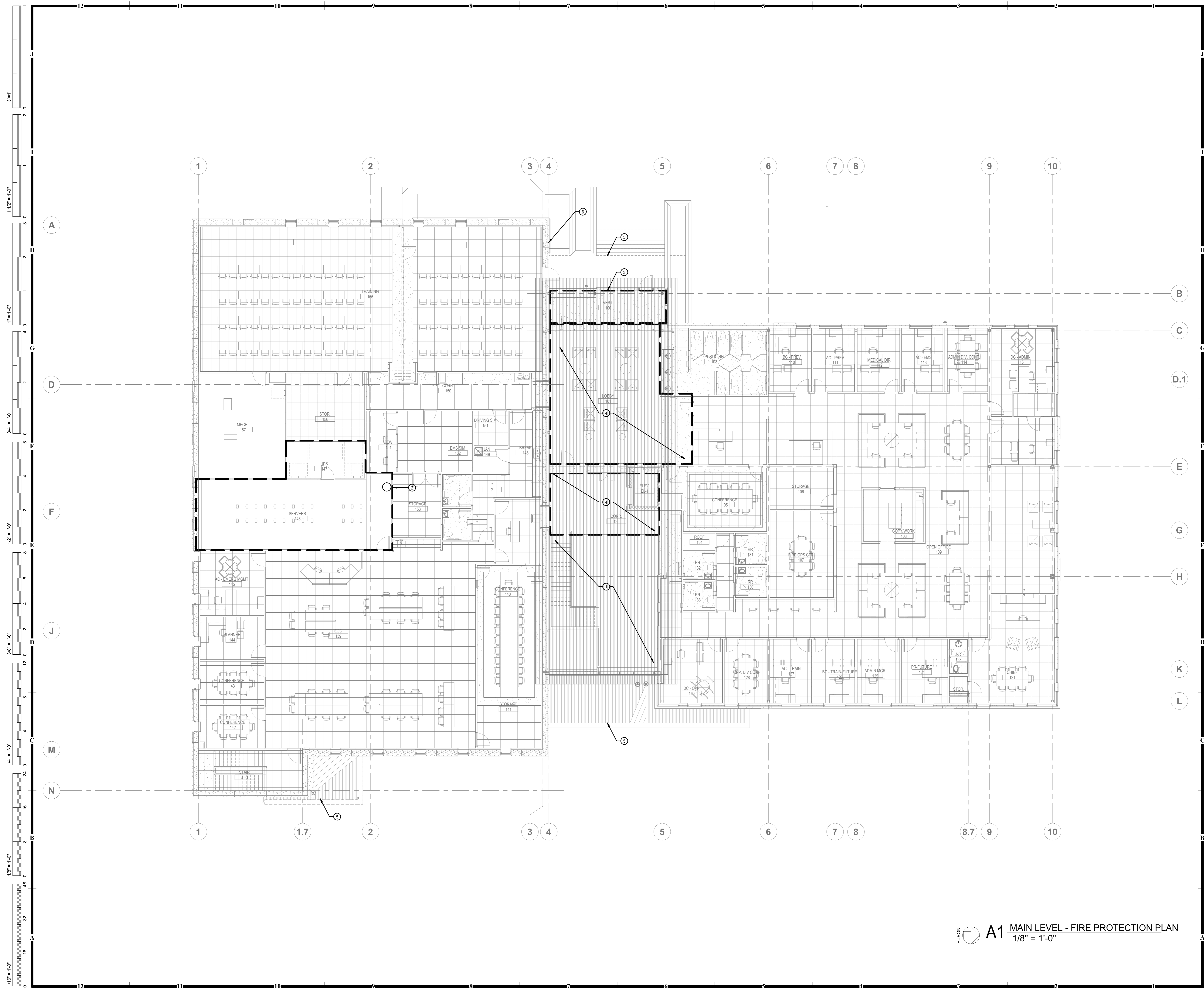


PROFESSIONAL SEAL

FX101
ISSUE DATE: NOVEMBER 1, 2024
HOEFER WELKER #: 138191

LOWER LEVEL - FIRE PROTECTION PLAN

A1 LOWER LEVEL - FIRE PROTECTION PLAN
1/8" = 1'-0"



PLAN NOTES:

1. COORDINATE PIPE ROUTING AT TWO-STORY BREAK ROOM.
2. PROVIDE COMPLETE CLEAN AGENT FIRE SUPPRESSION SYSTEM AND ALL REQUIRED ALARMS, ACCESSORIES, AND PIPING FOR SERVER ROOM AND UPS ROOM. SYSTEM TO BE DELEGATED DESIGN.
3. THERE IS A LID ON THE VESTIBULE AND THE SPACE ABOVE THE VESTIBULE IS OPEN TO THE LOBBY. SO COORDINATE THE SPRINKLER SYSTEM ACCORDINGLY.
4. AVOID ROUTING SPRINKLER MAINS THROUGH THIS SPACE. COORDINATE ROUTING THE SPRINKLER MAINS THROUGH THE LOWER LEVEL.
5. EXTERIOR CANOPIES CONSIST OF ONLY NON COMBUSTIBLE MATERIALS, NO SPRINKLER REQUIRED.
6. COORDINATE ALL PENETRATIONS IN THE STORM SHEET PRECAST PRIOR TO CONSTRUCTION. PRECAST PENETRATIONS CANNOT BE FIELD CUT.



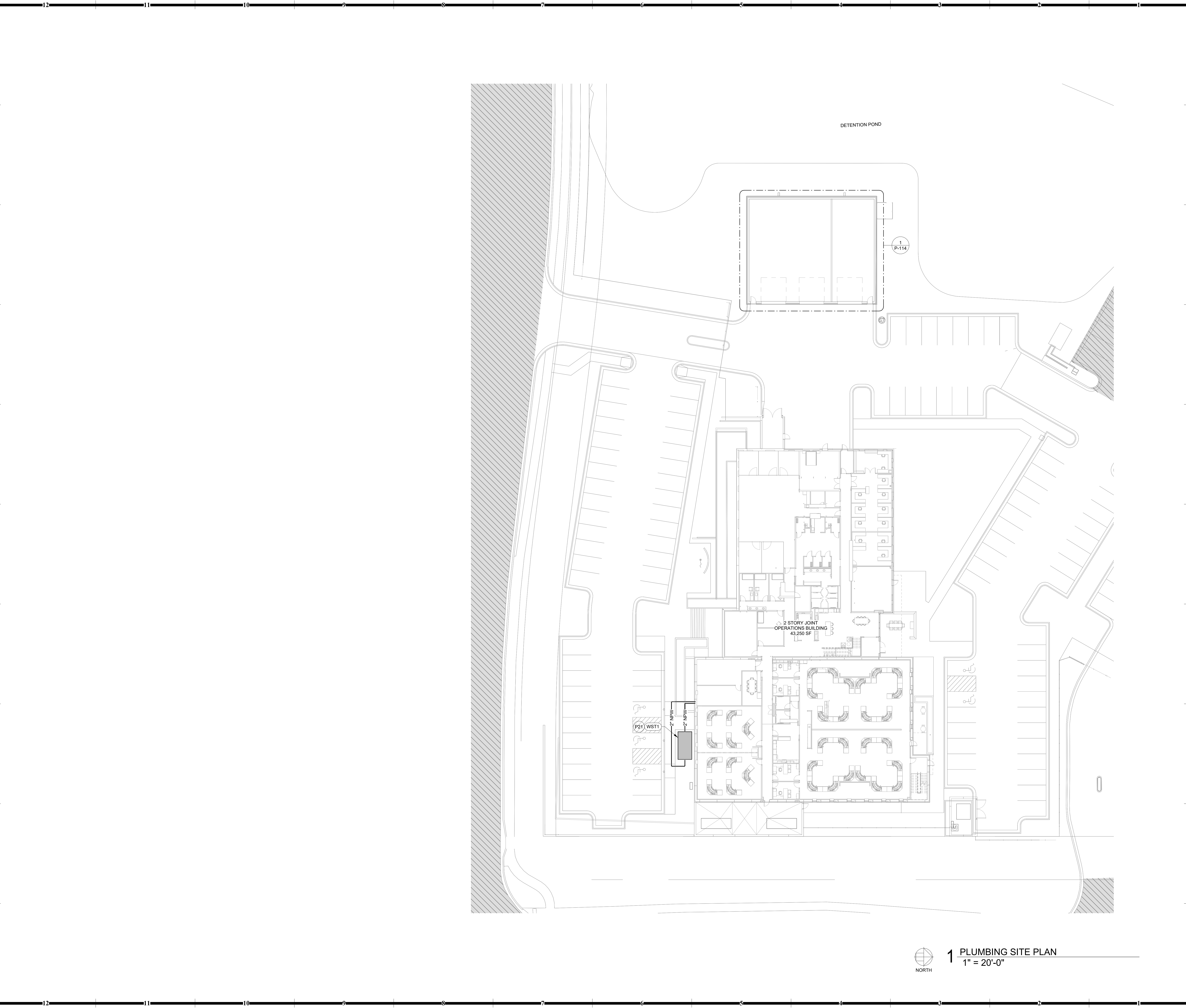
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MAIN LEVEL - FIRE PROTECTION
PLAN



P21 PROVIDE HOSE HOOKUP AT GRADE
LEVEL FOR PUMPER TRUCK
CONNECTION TO STORAGE TANK.

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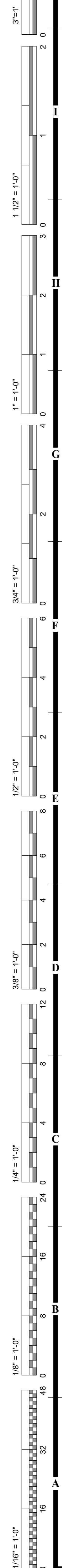
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PLUMBING SITE PLAN



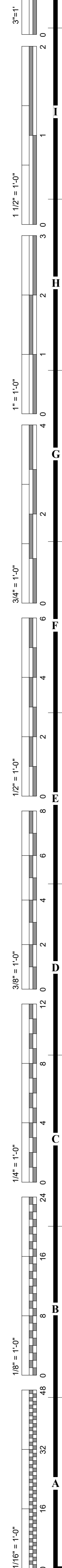
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PACKAGE 2: CONSTRUCTION SET


LEE'S SUMMIT, M

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DATE: NOVEMBER 1, 2024
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- P9
P1
P1
P1
- P2
P2

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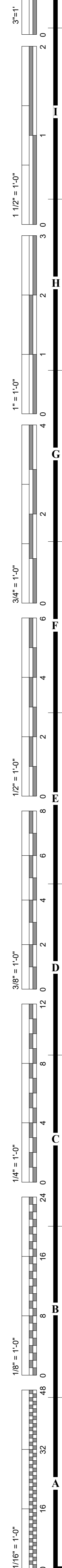
FLORIDA PROFESSIONAL ENGINEER
 DAN STOCKTON
 LICENSE NO. 36426
 MECHANICAL
 12/15/2024

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P-111

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**STE AND VENT
 PLAN**

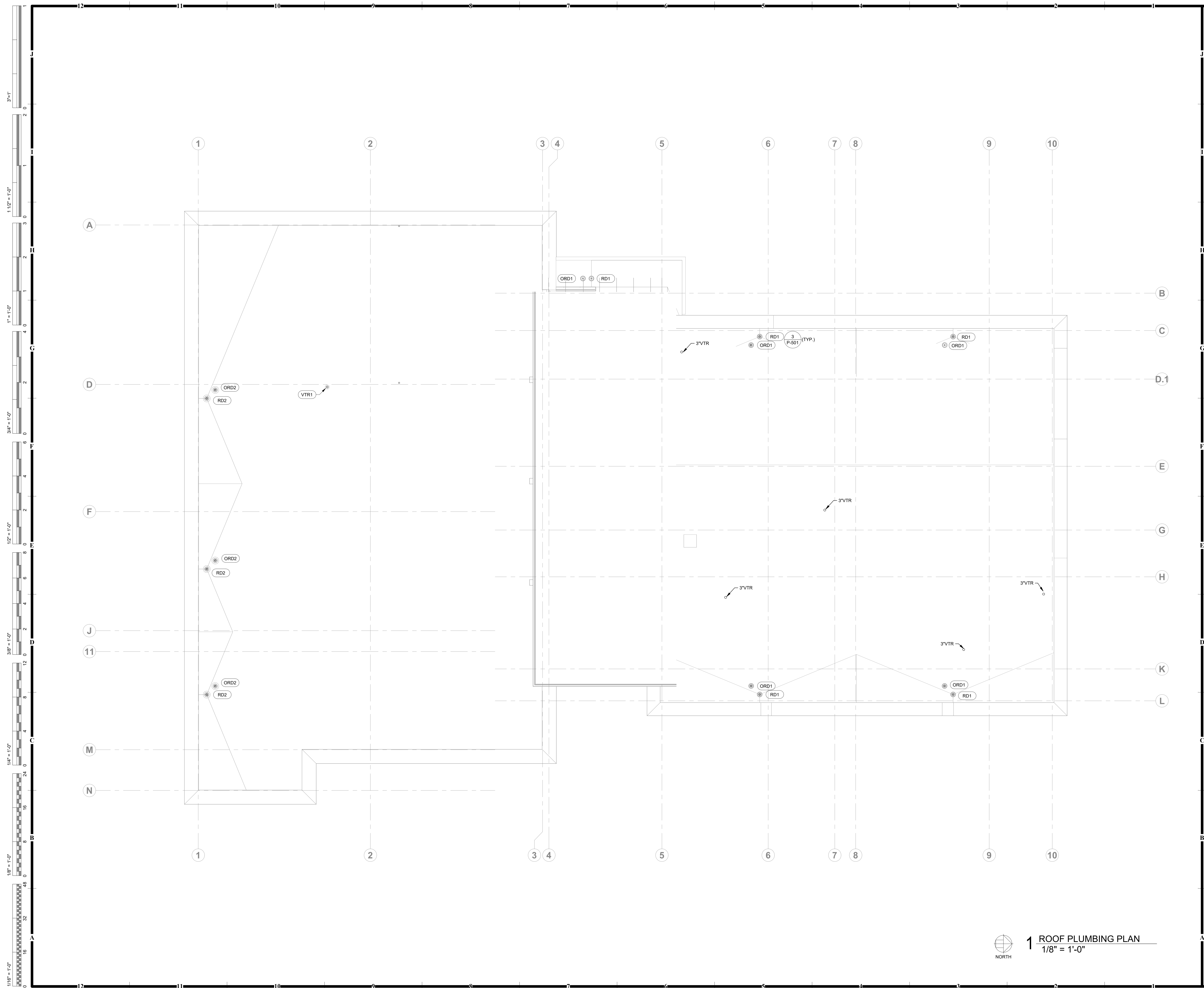


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PACKAGE 2: CONSTRUCTION SET

NOTE AND COMMENT

1 MAIN LEVEL WASTE & VENT PLAN
1/8" = 1'-0"



REFER TO SHEET PG001 FOR GENERAL
PLUMBING NOTES.

 $\left(\right)$

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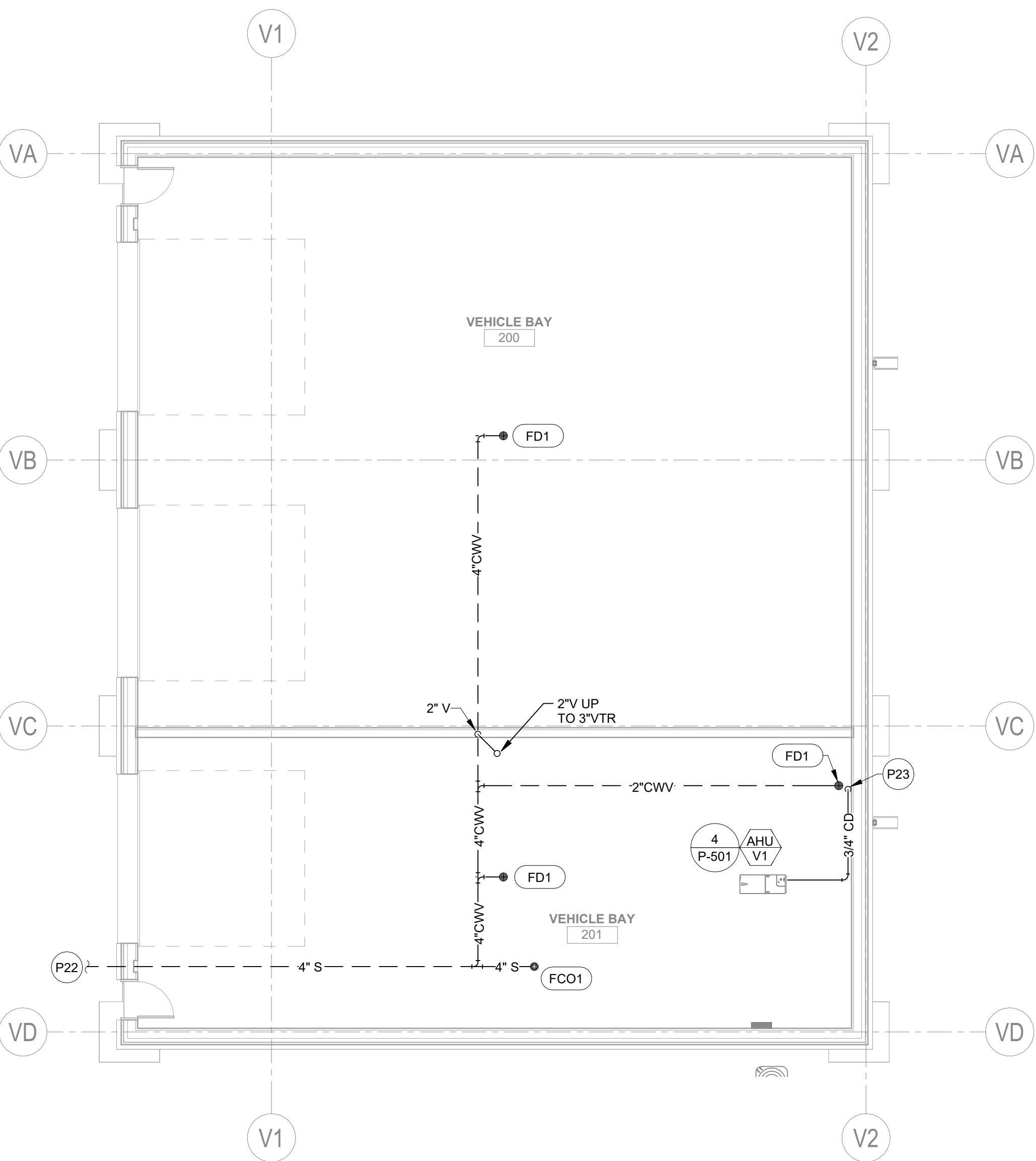
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DUE DATE: NOVEMBER 1, 2024
 REFER WELKER #: 138191

ROOF PLUMBING PLAN



1 VEHICLE BUILDING - PLUMBING PLAN
1/8" = 1'-0"

P22 EXTEND SANITARY SEWER 5'-0"
OUTSIDE BUILDING AND CONNECT TO
CIVIL AT 1007.67. REFER TO CIVIL
DRAWINGS FOR CONTINUATION.

P23 ROUTE CONDENSATE WALL DOWN IN
WALL AND TERMINATE AT FLOOR
DRAIN WITH AIR GAP.

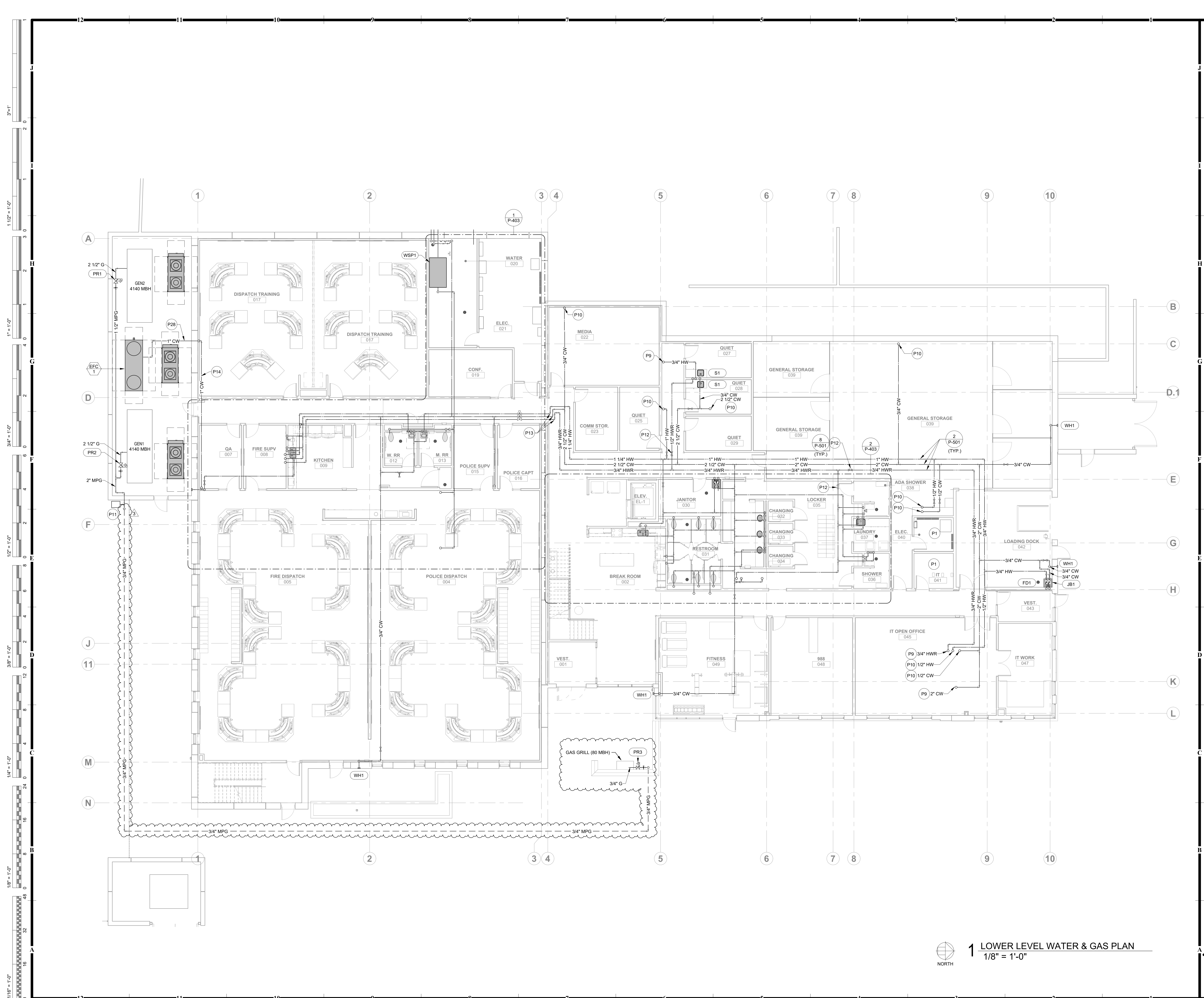
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VEHICLE BAY PLUMBING PLAN



- GENERAL NOTES:**
- REFER TO SHEET PG001 FOR GENERAL PLUMBING NOTES.
- PLUMBING PLAN NOTES:**
- P1 DO NOT ROUTE PIPING OVER ELECTRICAL ROOM OR EQUIPMENT.
 - P10 FFA
 - P11 NEW GAS METER INSTALLED BY GAS UTILITY. DESIGN BASED ON A DELIVERY PRESSURE OF 2 PSI, A TOTAL CONNECTED LOAD OF 8.380 MBH, AND TOTAL DEVELOPED LENGTH OF 80 FEET FOR THE GENERATORS AND 250 FEET FOR THE OUTDOOR GRILL.
 - P12 THERMOSTATIC BALANCING VALVE SET TO 125F. 500. JOMAR TS-120MFG. PROVIDE PIPED LOOP WITH ELBOW AS CLOSE TO WALL AS POSSIBLE TO PROVIDE A BREAKAWAY POINT DURING A CATASTROPHIC STORM EVENT.
 - P14 SLOPE WATER PIPE TOWARDS FLUID COOLER CONNECTION FOR DRAIN DOWN DURING WINTER MONTHS. ROUTE COLD WATER LINE ALONG FLOOR AND CONNECT TO FLUID COOLER. SUPPORT PER SPECIFICATION 220529.
 - P28

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REVISION DATES:

3	ADDENDUM #3	11/18/2024

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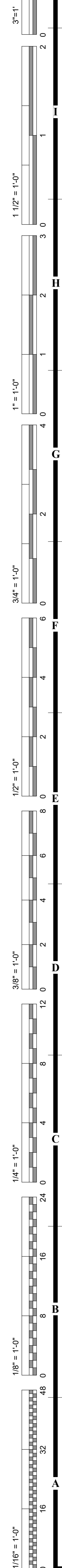
P-121

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PACKAGE 2: CONSTRUCTION SET

1 LOWER LEVEL WATER & GAS PLAN
1/8" = 1'-0"

LOWER LEVEL - WATER AND GAS PLAN



P9 FFA
P24 STUB OUT 1/2" CW BELOW
COUNTERTOP FOR COFFEE MAKER.
INSTALL SHUT-OFF VALVE AND DUAL
CHECK BACKFLOW PREVENTER IN
ACCESSIBLE LOCATION WITHIN
CABINETRY AND EXTEND FLEXIBLE
COPPER TUBE OR BRAIDED STAINLESS
STEEL HOSE TO COFFEE MAKER
THROUGH HOLE DRILLED IN
COUNTERTOP AND CONNECT PER
MANUFACTURERS
RECOMMENDATIONS.

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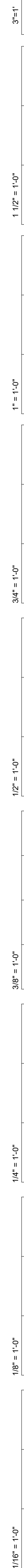


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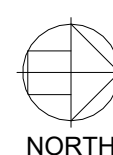
MAIN LEVEL - WATER AND GAS PLAN

Autodesk Docs://138191-LeesSummitJointOpsCtr/138191 MEP23 LeesSummitJointOpsCtr.rvt

1 MAIN LEVEL WATER & GAS PLAN
1/8" = 1'-0"



2 ENLARGED MAIN LEVEL WASTE & VENT PLAN - OFFICE AND PUBLIC RESTROOMS
1/4" = 1'-0"



1 ENLARGED MAIN LEVEL WASTE & VENT PLAN - MECHANICAL ROOM AND EOC RESTROOMS
1/4" = 1'-0"

- P1
P9
P19
P20
P29

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PACKAGE 2: CONSTRUCTION SET

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ENLARGED MAIN LEVEL WASTE AND VENT PLANS

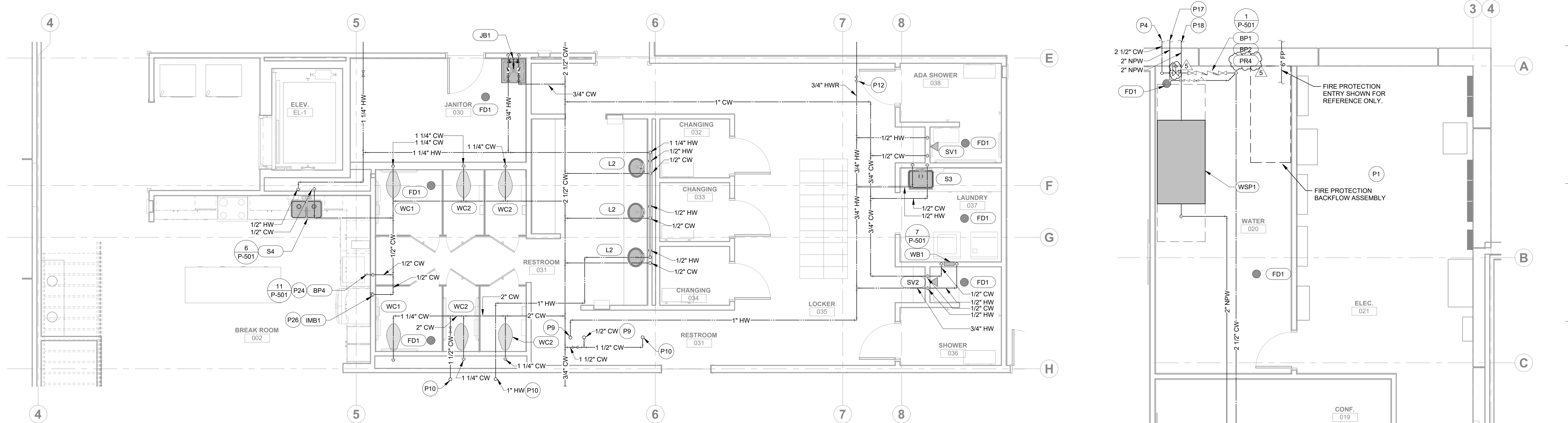


GENERAL NOTES:

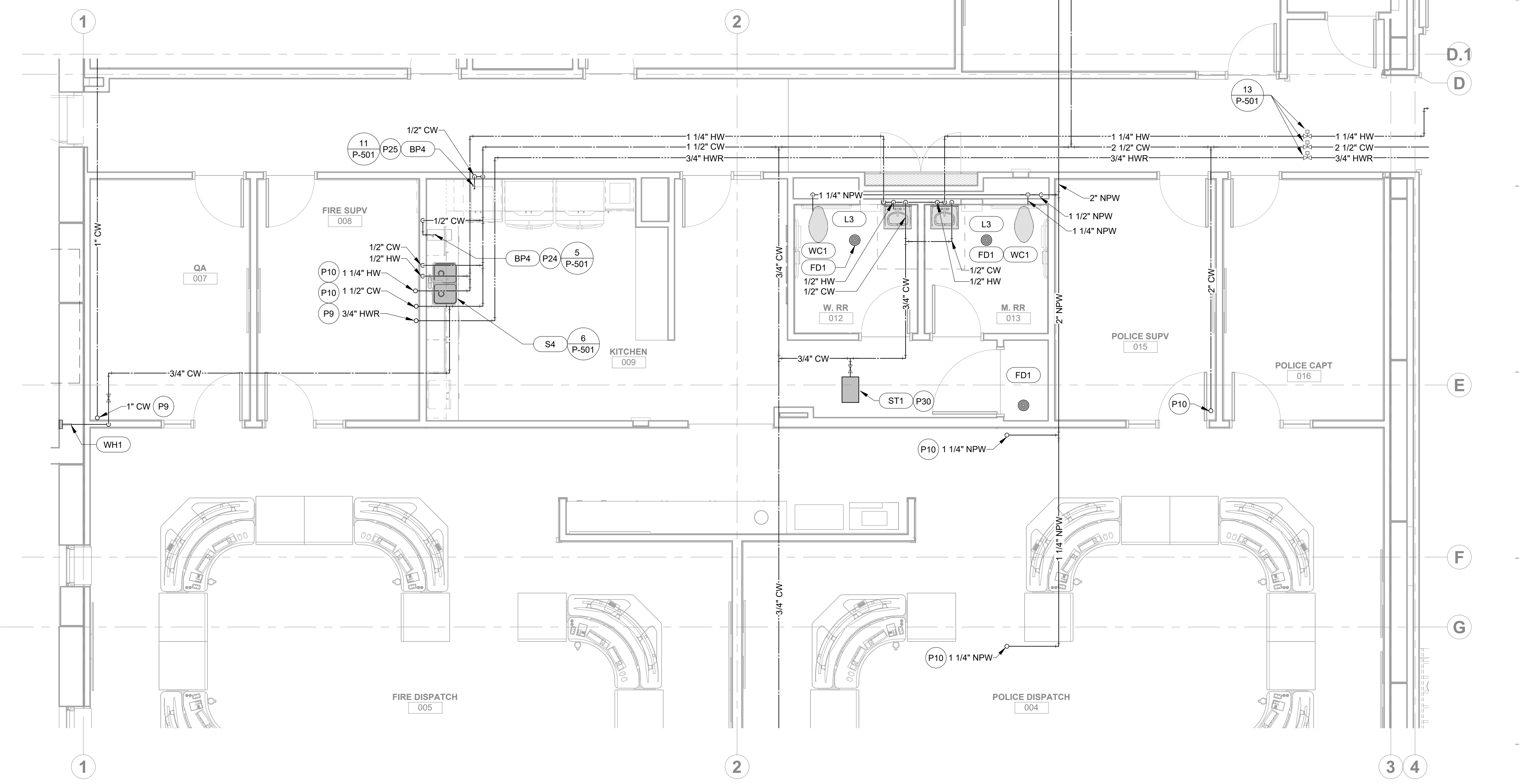
1. REFER TO SHEET PG001 FOR GENERAL PLUMBING NOTES.

PLUMBING PLAN NOTES:

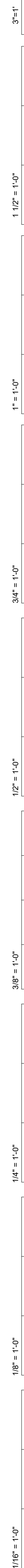
- P1 DO NOT ROUTE PIPING OVER ELECTRICAL ROOM OR EQUIPMENT.
P4 EXTEND DOMESTIC COLD WATER SERVICE TO CIVIL AND CONNECT AT IE=1017.5.
P9 FFA
P10 TFA
P12 THERMOSTATIC BALANCING VALVE, SET TO 125F. BOD. JOMAR TB-120MFG.
P17 EXTEND NON POTABLE WATER TO WATER STORAGE TANK INLET. COORDINATE WITH PRECAST STORM WALL SHOP DRAWINGS FOR FINAL PENETRATION LOCATION.
P18 EXTEND NON POTABLE WATER TO WATER STORAGE TANK OUTLET. COORDINATE WITH PRECAST STORM WALL SHOP DRAWINGS FOR FINAL PENETRATION LOCATION.
P24 STUB OUT 1/2" CW BELOW COUNTERTOP FOR COFFEE MAKER. INSTALL SHUT-OFF VALVE AND DUAL CHECK BACKFLOW PREVENTER IN ACCESSIBLE LOCATION WITHIN CABINETY AND EXTEND FLEXIBLE COPPER TUBE OR BRAIDED STAINLESS STEEL HOSE TO COFFEE MAKER THROUGH HOLE DRILLED IN COUNTERTOP AND CONNECT PER MANUFACTURERS RECOMMENDATIONS.
P25 STUB OUT 1/2" CW BELOW COUNTERTOP FOR COUNTERTOP ICE MAKER. INSTALL SHUT-OFF VALVE, STRAINER, AND DUAL CHECK BACKFLOW PREVENTER IN ACCESSIBLE LOCATION WITHIN CABINETY AND EXTEND FLEXIBLE COPPER TUBE OR BRAIDED STAINLESS STEEL HOSE TO ICE MAKER THROUGH HOLE DRILLED IN COUNTERTOP AND CONNECT PER MANUFACTURERS RECOMMENDATIONS.
P26 1/2" CW TO ICE MAKER BOX FOR CONNECTION TO REFRIGERATOR. MOUNT TANK SIDEWAYS ABOVE CEILING ON UNISTRUT ATTACHED TO STRUCTURE.



2 ENLARGED LOWER LEVEL WATER PLAN - BREAK ROOM AND LOCKER ROOM
1/4" = 1'-0"



1 ENLARGED LOWER LEVEL WATER PLAN - WATER ROOM AND DISPATCH
1/4" = 1'-0"



2 ENLARGED MAIN LEVEL WATER PLAN - OFFICE AND PUBLIC RESTROOMS
1/4" = 1'-0"



1 ENLARGED MAIN LEVEL WATER PLAN - MECHANICAL ROOM AND EOC RESTROOMS
1/4" = 1'-0"

- P1
P12
P19
P20
P24

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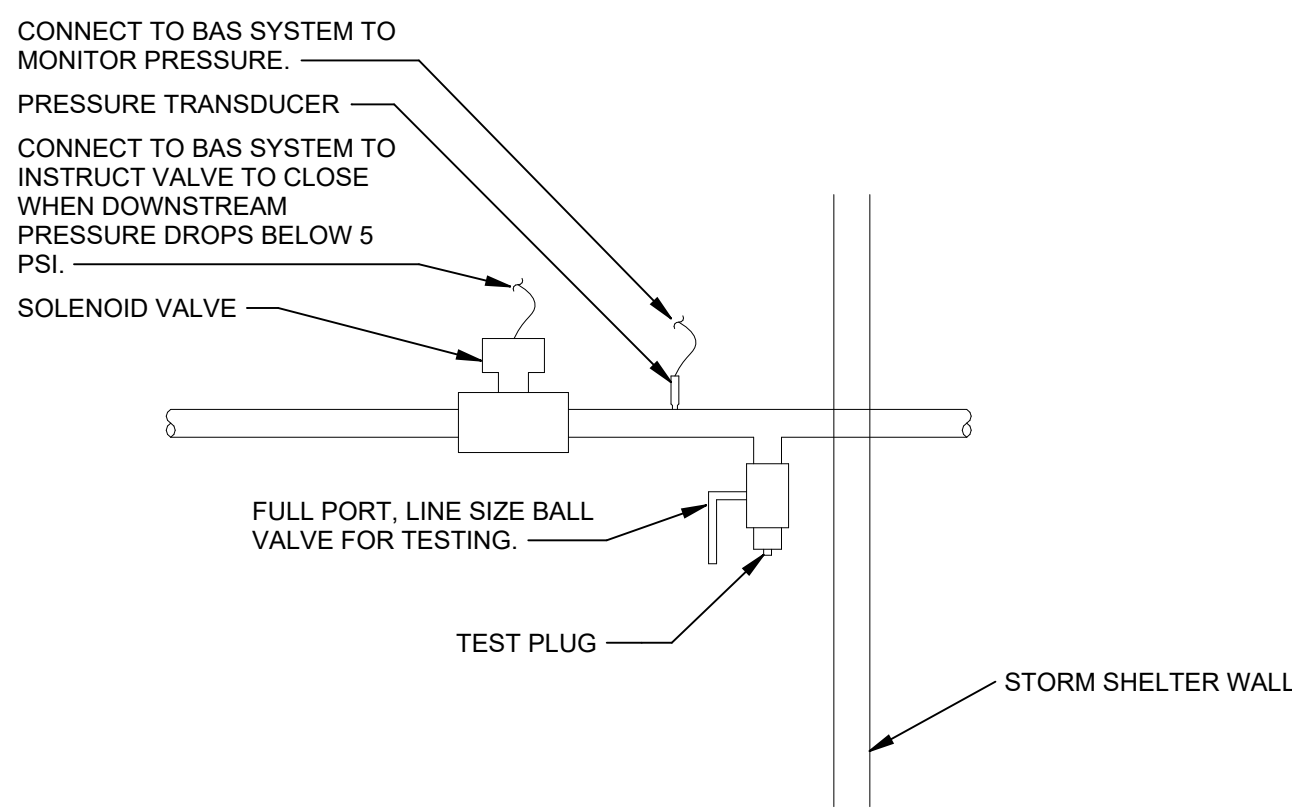
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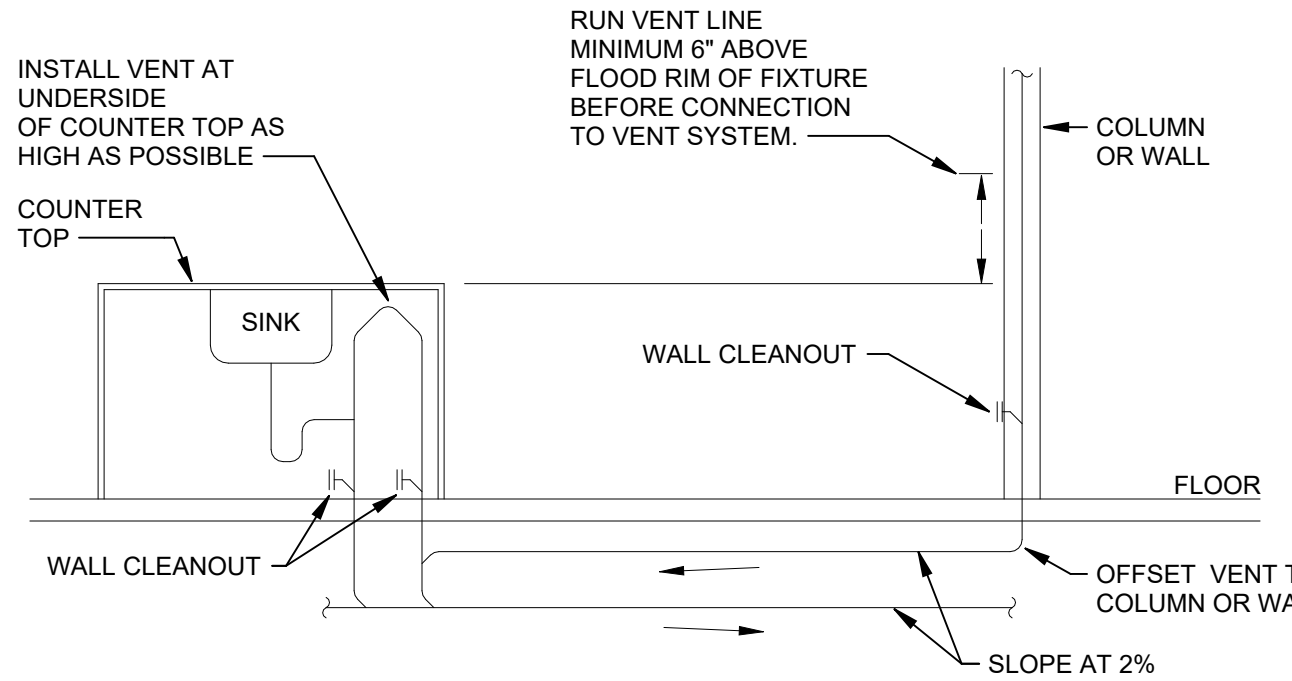


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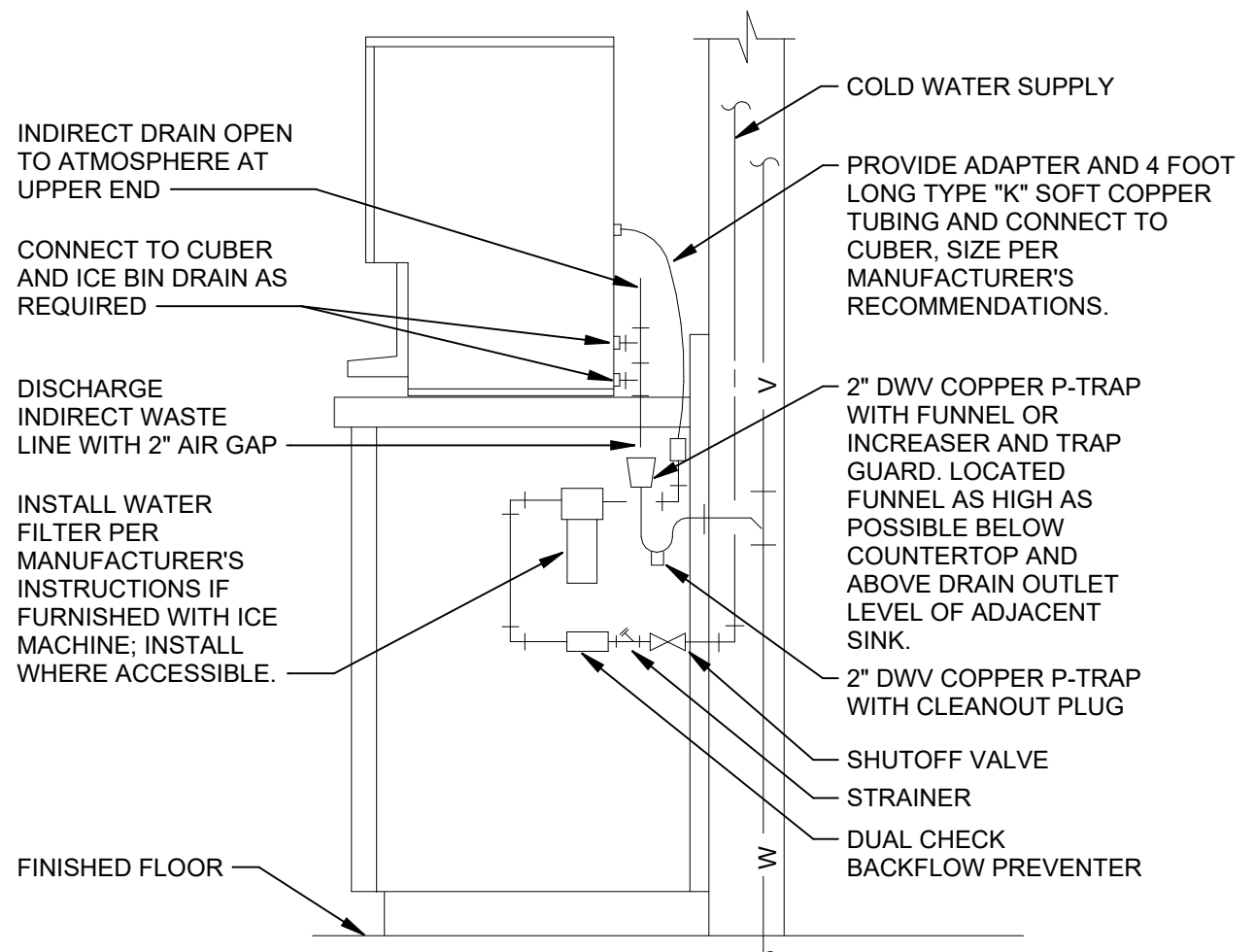
ENLARGED MAIN LEVEL WATER PLANS



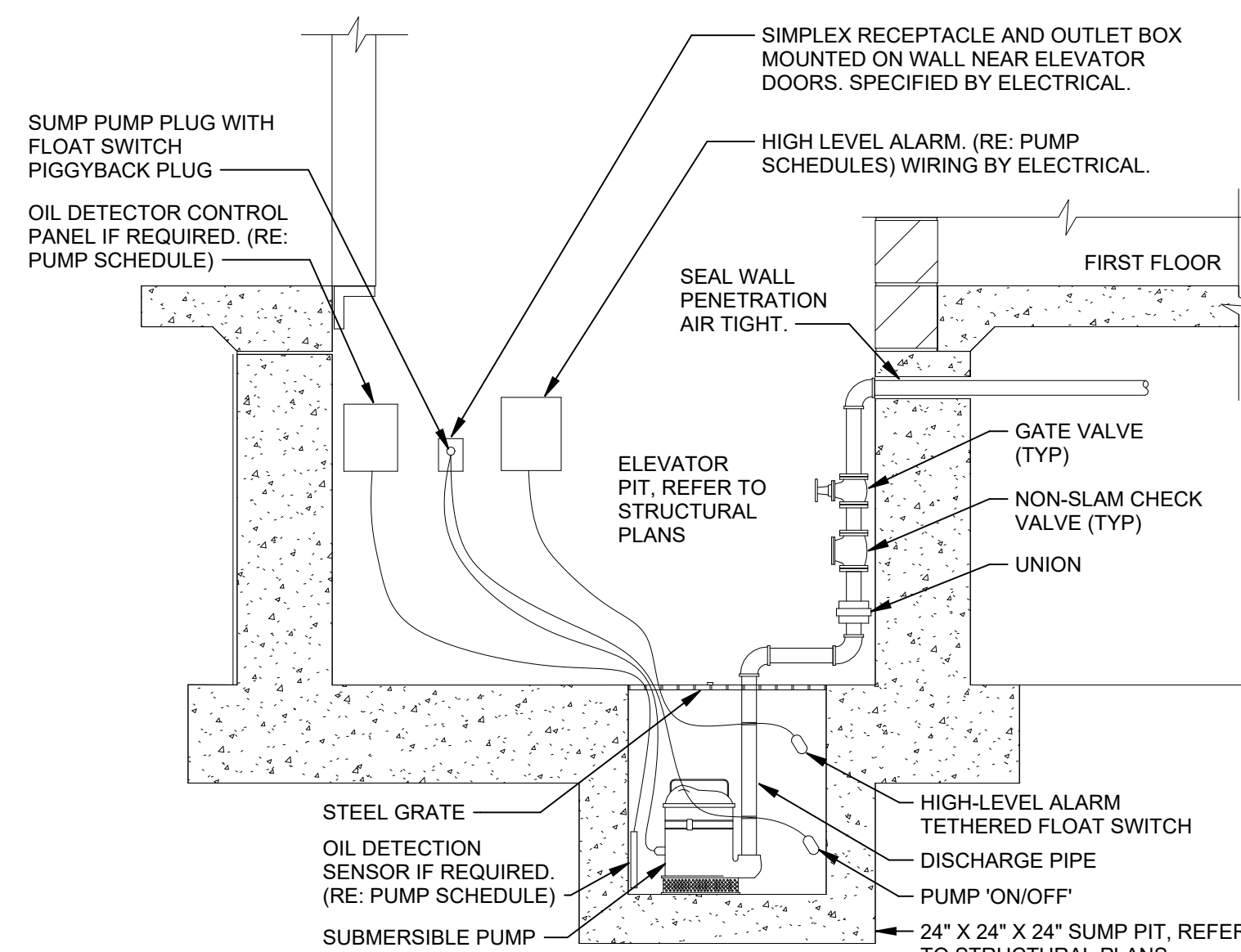
13 AUTOMATIC SHUT-OFF VALVE
NOT TO SCALE



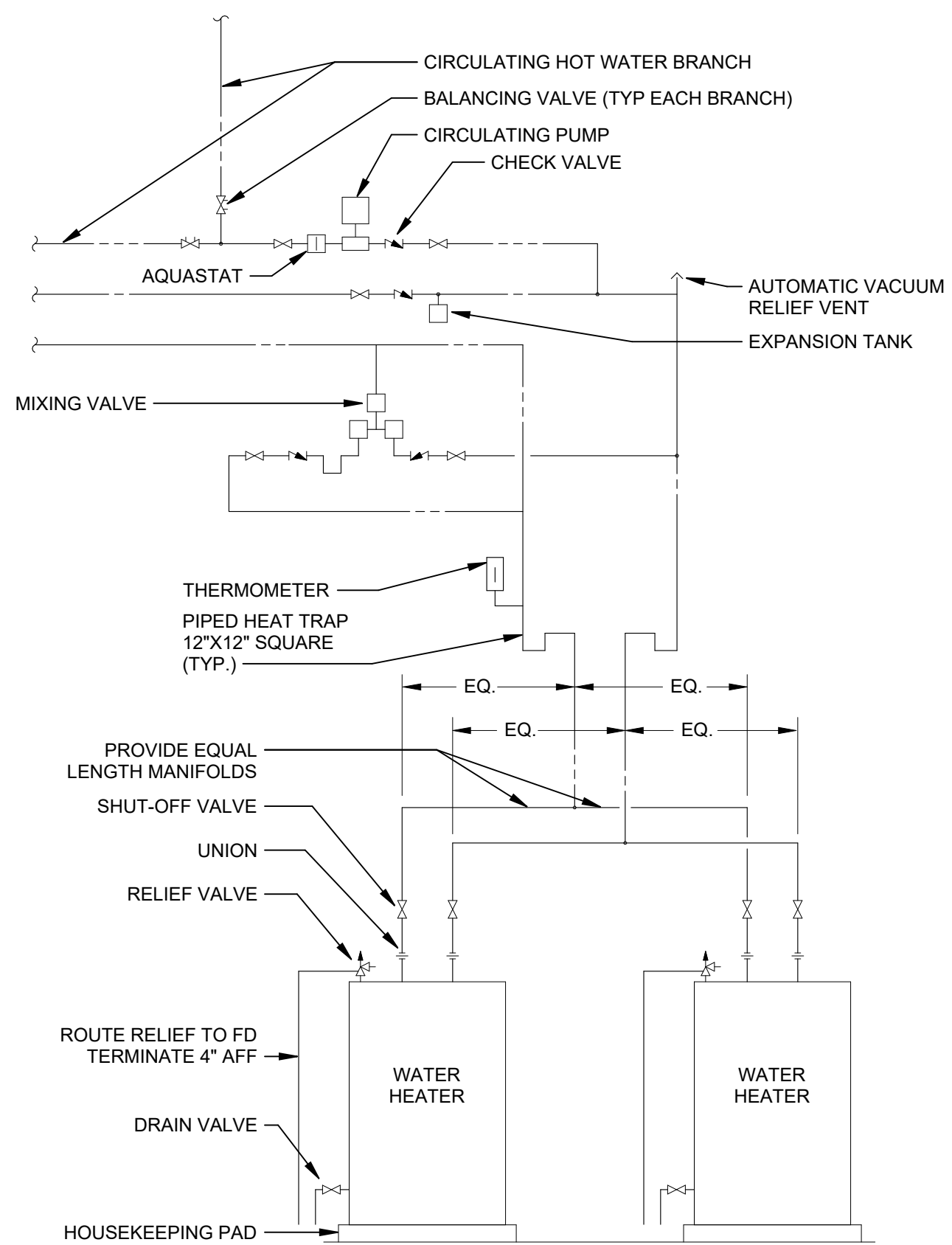
12 ISLAND VENT PIPING
NOT TO SCALE



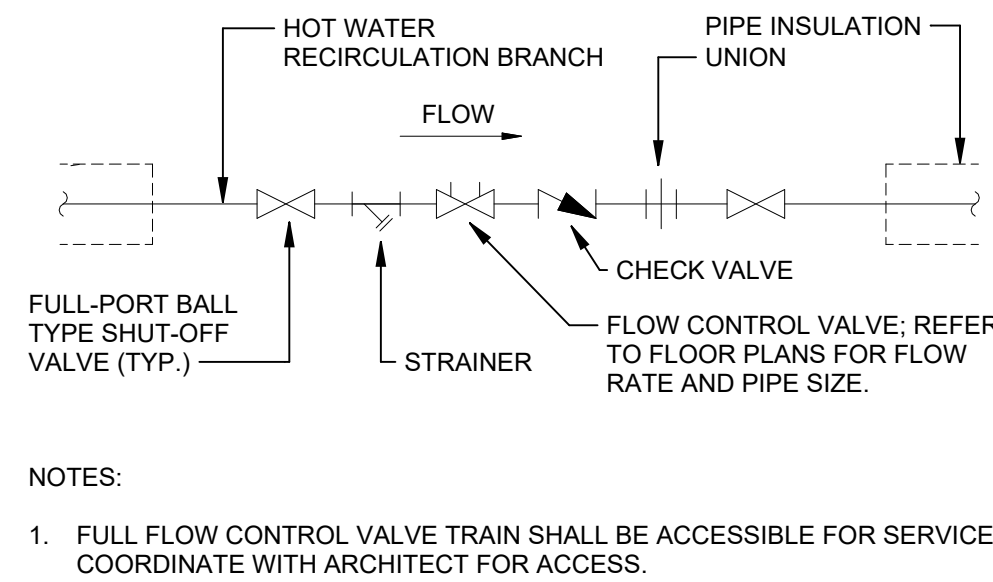
11 COUNTERTOP ICE MAKER CONNECTIONS
NOT TO SCALE



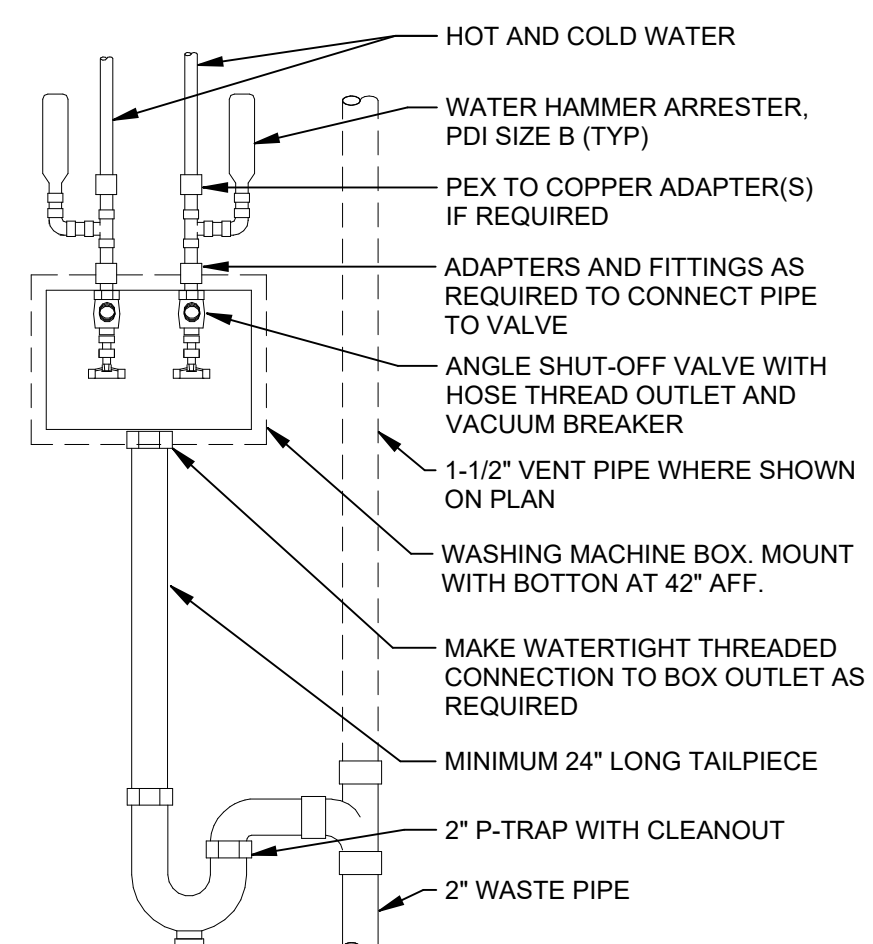
10 ELEVATOR SUMP PUMP PIPING BELOW FLOOR
NOT TO SCALE



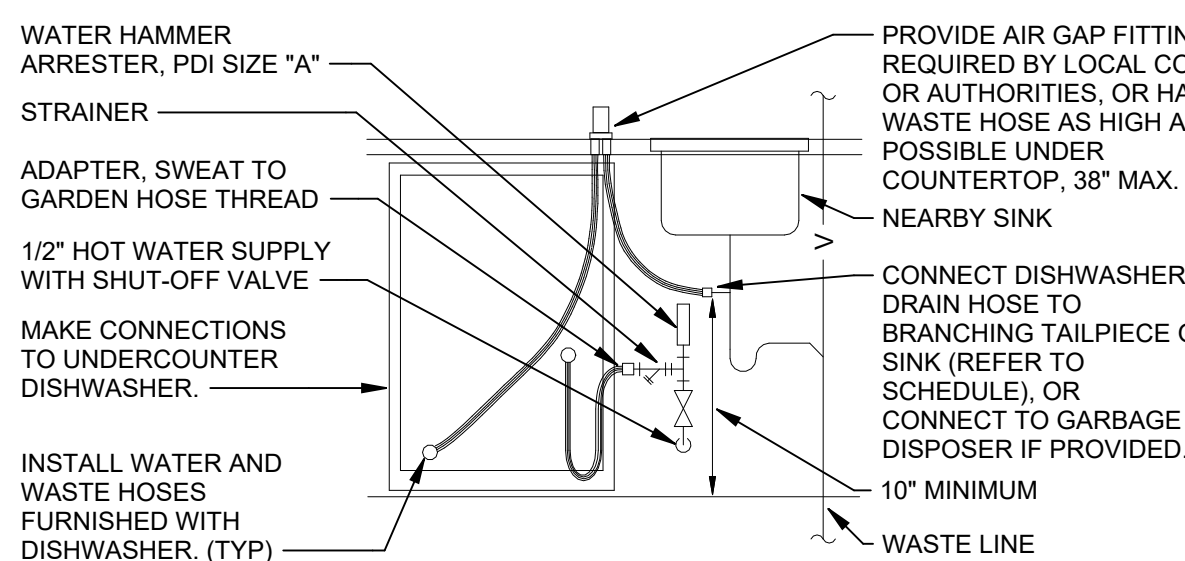
9 ELECTRIC WATER HEATER PIPING
NOT TO SCALE



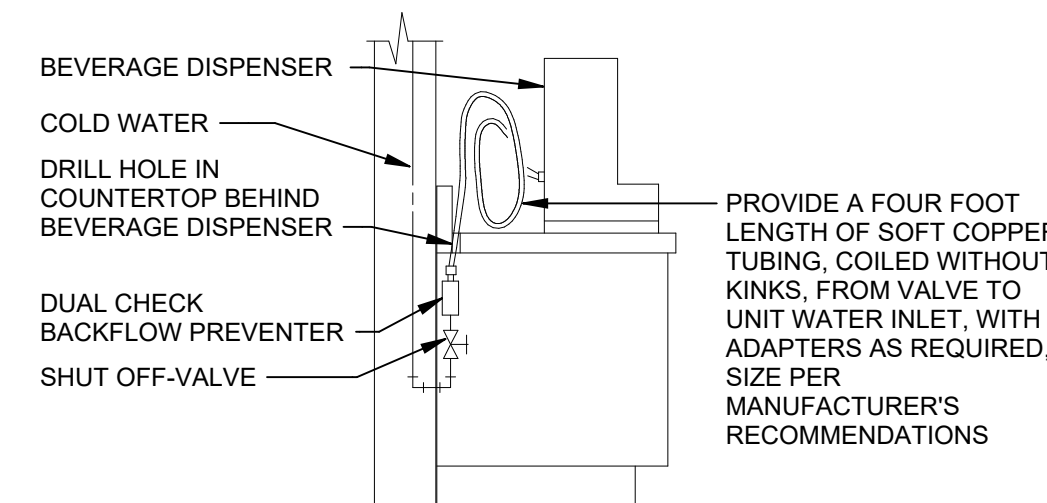
8 TYPICAL HOT WATER FLOW CONTROL VALVE TRAIN
NOT TO SCALE



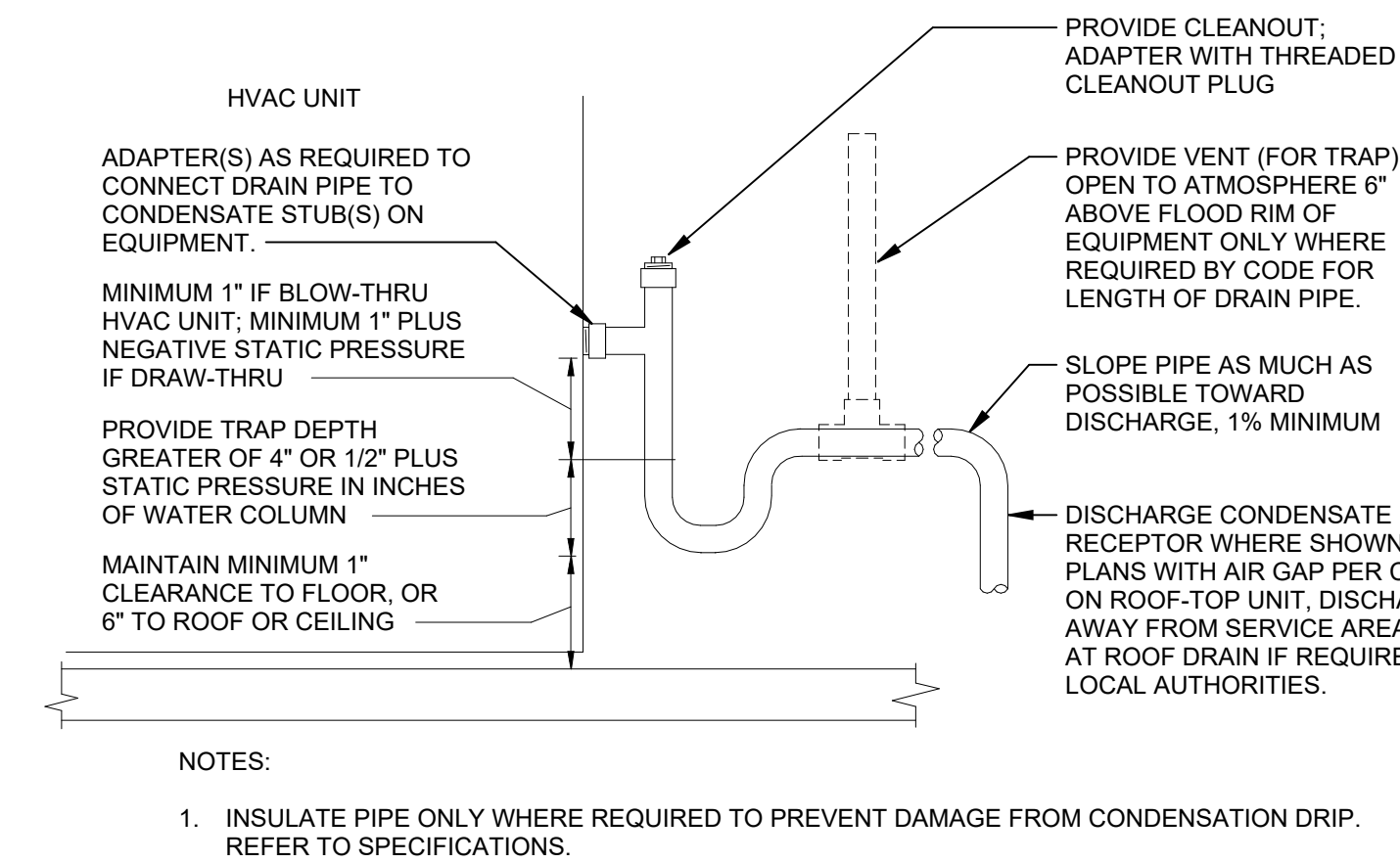
7 WASHING MACHINE BOX
NOT TO SCALE



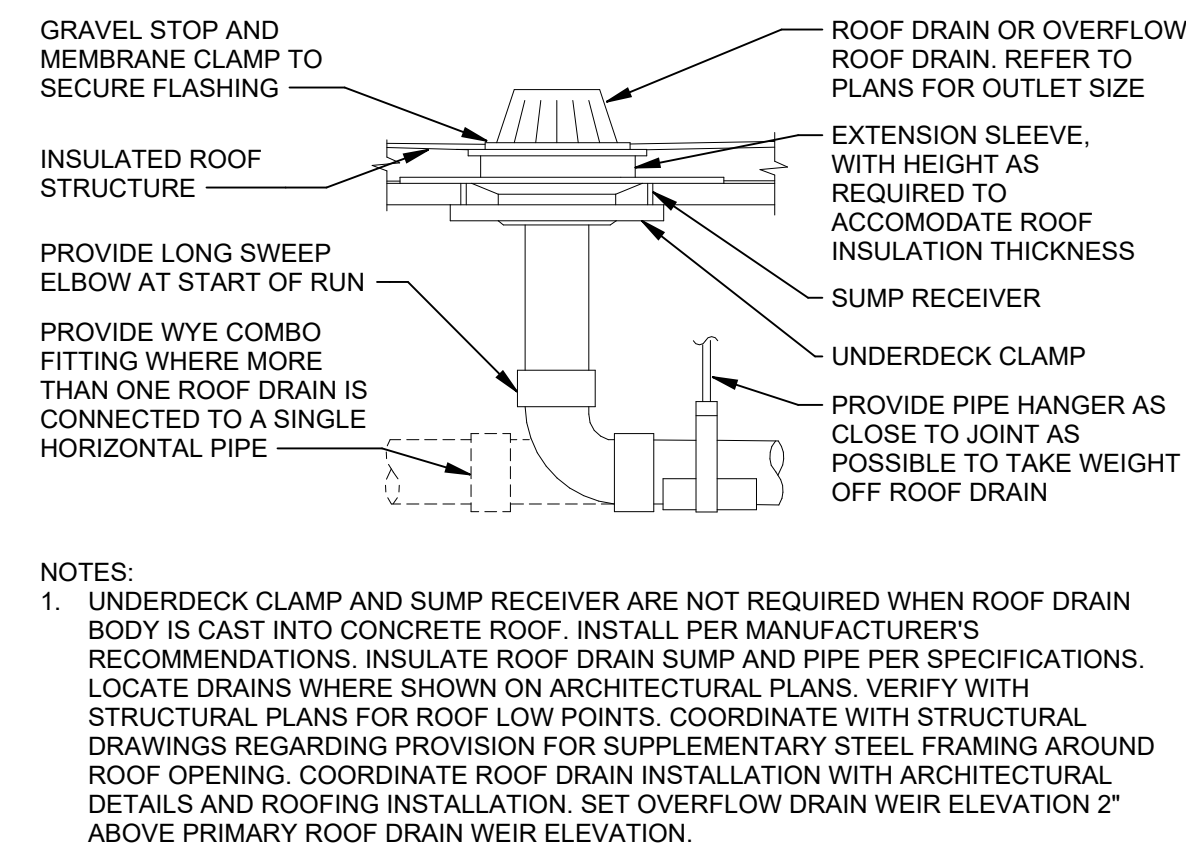
6 RESIDENTIAL DISHWASHER CONNECTION
NOT TO SCALE



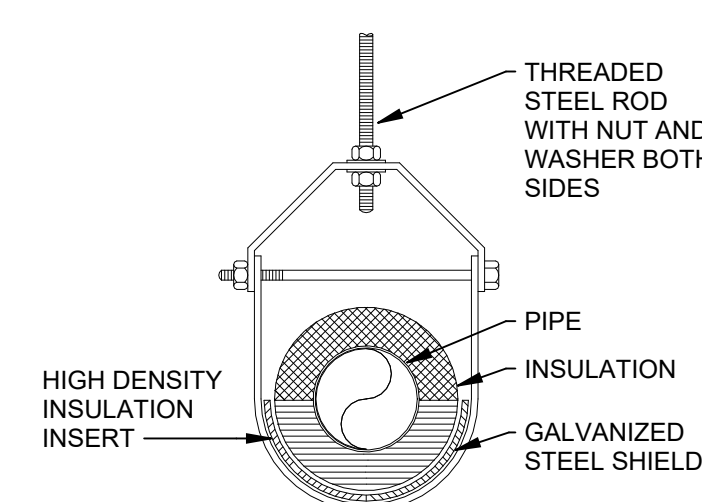
5 BEVERAGE DISPENSER CONNECTIONS
NOT TO SCALE



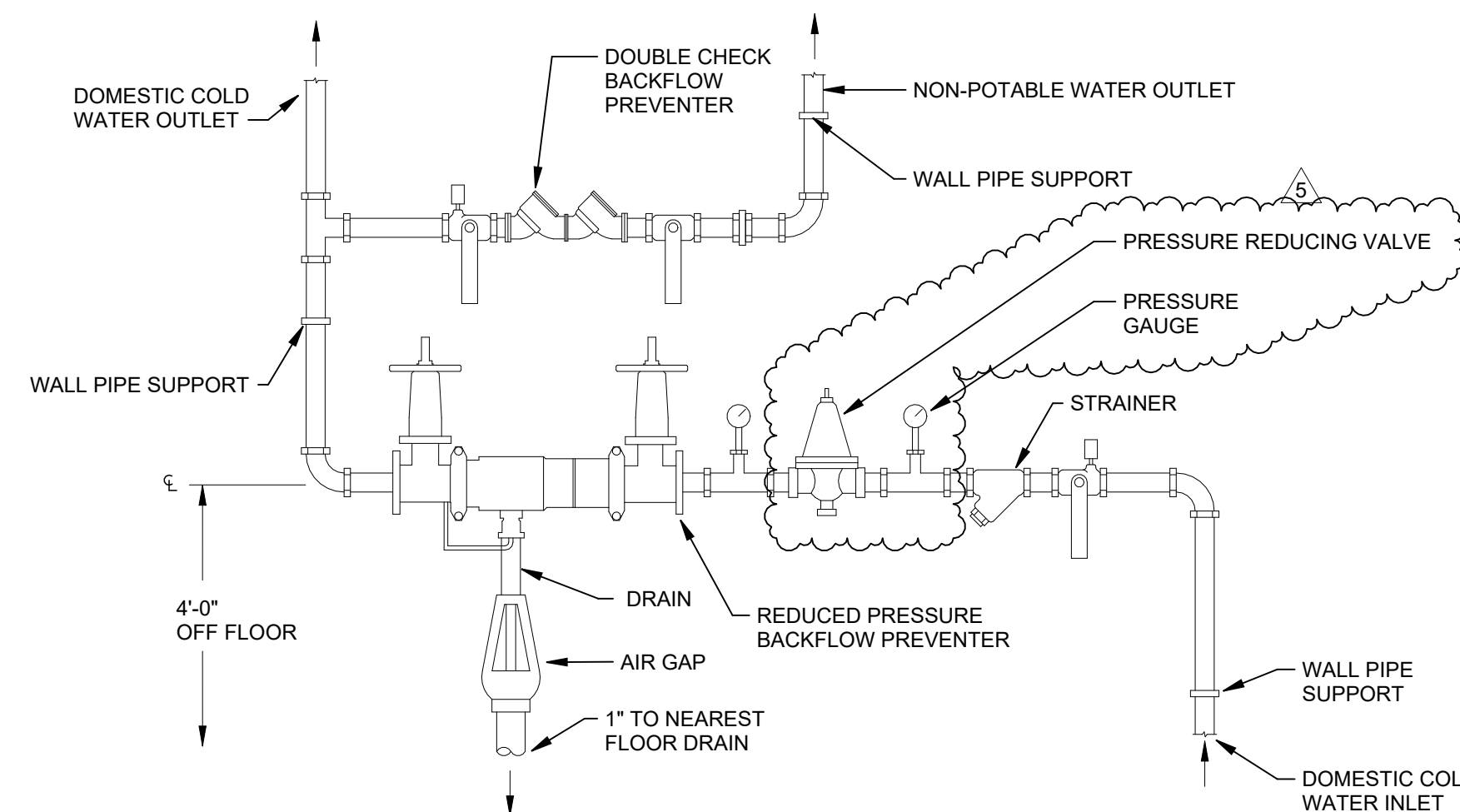
4 CONDENSATE DRAIN INSTALLATION
NOT TO SCALE



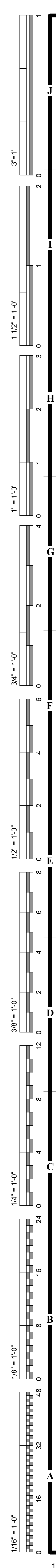
3 ROOF DRAIN INSTALLATION
NOT TO SCALE



2 INSULATED PIPE AT HANGER
NOT TO SCALE



1 DOMESTIC WATER ENTRY
NOT TO SCALE



PLUMBING FIXTURE SCHEDULE										
PLAN MARK	UNIT TYPE	MANUFACTURER	MODEL	FLUSH VALVE/FAUCET	PLUMBING CONNECTIONS (IN)				OPTIONS	NOTES
					CW	HW	WASTE	VENT		
BP1	REDUCED PRESSURE BACKFLOW PREVENTER	WATTS	LP909	N/A	2.5	0	0	0		
BP2	DOUBLE CHECK BACKFLOW PREVENTER	WATTS	N/A	N/A	2	0	0	0		
BP3	DOUBLE CHECK BACKFLOW PREVENTER	WATTS	LF007	N/A	0.75	0	0	0		
BP4	DUAL CHECK BACKFLOW PREVENTER	WATTS	SD-3	N/A	0.5	0	0	0		
EW1	HI-LO WATER COOLER WITH BOTTLE FILLER	ELKAY	EZSTLBWSLK	N/A	0.5	0	2	1.5	BF,SB	1
IMB1	ICE MAKER BOX	GUY GRAY	BM875	N/A	0.5	0	0	0		
JB1	JANITOR'S BASIN	ZURN	Z1996-24 HH-MMH-WG	ZURN MODEL Z1996-SF	0.75	0.75	3	1.5		
L1	UNDERCOUNTER MOUNT, BATTERY-POWERED AUTOMATIC FAUCET LAVATORY	ZURN	Z5220	ZURN MODEL Z6915-XL, 0.5 GPM	0.5	0.5	2	1.5	AE5,GD,SV,T	
L2	UNDERCOUNTER MOUNT, MANUAL FAUCET LAVATORY	ZURN	Z5220	ZURN MODEL Z7440-XL, 0.5 GPM	0.5	0.5	2	1.5	AE5,GD,SV,T	
L3	WALL MOUNTED, BATTERY-POWERED AUTOMATIC FAUCET LAVATORY	ZURN	Z5360	ZURN MODEL Z6915-XL, 0.5 GPM	0.5	0.5	2	1.5	AE5,GD,SV,T	1
MMV1	DIGITAL MASTER MIXING VALVE	LEONARD	PNV-125	N/A	1	1	0	0	MSP	
S1	15X15 SINGLE COMPARTMENT, UNDERMOUNT BLACK QUARTZ SINK	ELKAY	ELG1616	KOHLER MODEL K-7505, 1.5 GPM, SWIVEL FLAT GOOSENECK FAUCET, VIBRANT STAINLESS FINISH	0.5	0.5	2	1.5	BS,SV,T	
S2	15X15 SINGLE COMPARTMENT, UNDERMOUNT BLACK QUARTZ SINK WITH GARBAGE DISPOSAL	ELKAY	ELG1616	KOHLER MODEL K-7505, 1.5 GPM, SWIVEL FLAT GOOSENECK FAUCET	0.5	0.5	2	1.5	BS,SV,T,BGD	
S3	24X17 SINGLE COMPARTMENT, UNDERMOUNT BLACK QUARTZ SINK	ELKAY	ELGU251912PD	KOHLER MODEL K-7505, 1.5 GPM, SWIVEL FLAT GOOSENECK FAUCET	0.5	0.5	2	1.5	BS,SV,T	
S4	33X19 DOUBLE COMPARTMENT, UNDERMOUNT BLACK QUARTZ SINK WITH GARBAGE DISPOSAL	ELKAY	ELGDULB3322	KOHLER MODEL K-596-CP, 1.5 GPM, SWIVEL GOOSENECK PULL DOWN FAUCET	0.5	0.5	2	1.5	BS,SV,T,BGD	
SV1	ADA SHOWER VALVE	DELTA	T11TH325	N/A	0.5	0.5	0	0		1
SV2	SHOWER VALVE	DELTA	T13H122	N/A	0.5	0.5	0	0		1
VTR1	ICC 500 COMPLIANT VENT-THRU-ROOF	ROOF PENETRATION HOUSING	CVTR							
WB1	WASHER BOX	GUY GRAY	B200	N/A	0.5	0.5	2	1.5		
WC1	ADA FLOOR MOUNT, BACK OUTLET, BATTERY POWERED AUTOMATIC 1.28 GPF FLUSH VALVE WATER CLOSET	ZURN	Z5645-BWL	SLOAN ECOS 8111-1.28	1.25	0	4	2	ESLC,SV	2
WC2	FLOOR MOUNT, BACK OUTLET, BATTERY POWERED AUTOMATIC 1.28 GPF FLUSH VALVE WATER CLOSET	ZURN	Z5635-BWL	SLOAN ECOS 8111-1.28	1.25	0	4	2	ESLC,SV	2
WH1	FREEZE PROOF WALL HYDRANT	ZURN	Z1921-C	N/A	0.75	0	0	0		

NOTES:
1. REFER TO ARCHITECTURAL PLANS FOR MOUNTING HEIGHTS.
2. REFER TO ARCHITECTURAL PLANS FOR ADA REQUIRED GRAB BARS.

DRAINAGE FIXTURE SCHEDULE						
PLAN MARK	TYPE	MANUFACTURER	MODEL	OPTIONS	NOTES	
DN1	DOWNSPOUT NOZZLE	ZURN	Z199			
DN2	DOWNSPOUT NOZZLE	ZURN	Z199			
FCO1	FLOOR CLEANOUT	JAY R SMITH	403L			
FD1	FLOOR DRAIN - ROUND	JAY R SMITH	200SA	CC,NBS,TG		
GCO2	TWO-WAY FINISHED GRADE CLEANOUT	JAY R SMITH	4261L			
ORD1	OVERFLOW ROOF DRAIN	ZURN	Z100-89			
ORD2	ICC 500 COMPLIANT OVERFLOW ROOF DRAIN	ROOF PENETRATION HOUSINGS	COFRO			
RD1	ROOF DRAIN	ZURN	Z100			
RD2	ICC 500 COMPLIANT ROOF DRAIN	ROOF PENETRATION HOUSINGS	CRD			
WCO1	WALL CLEANOUT	JAY R SMITH	4530S			

SUMP PUMP SCHEDULE																
PLAN MARK	MANUFACTURER	MODEL	UNIT TYPE	PUMP				BASIN		ELECTRICAL				OPTIONS	NOTES	
				MIN FLOW RATE (GPM)	HEAD (FT)	MAX HP	RPM	DIAMETER (IN)	HEIGHT (IN)	VOLTAGE	PHASE	FLA	MCA			MOCP
SP1	WEIL	1411-538	ELEVATOR	50	20	0.5	1750	24"	36"	120	1	3.1	3.1	15		

RECIRCULATION PUMP SCHEDULE													
PLAN MARK	MANUFACTURER	MODEL	SIZE	MOUNTING	FLOW RATE (GPM)	HEAD (FT)	ELECTRICAL					OPTIONS	NOTES
							VOLTAGE	PHASE	FLA	MCA	MOCP		
RP1	GRUNDFOS	ALPHA 15-58 F	3/4"	INLINE	2.0	15	120	1	0.3	0.8	15	AS	

WATER HEATER SCHEDULE													
PLAN MARK	MANUFACTURER	MODEL	TYPE	TANK VOLUME (GAL)	GPH @ 100 DEG.F TEMP RISE	ELECTRICAL						OPTIONS	NOTES
						VOLTAGE	PHASE	NOMINAL (W)	FLA	MCA	MOCP		
EW1	LOCHINVAR	CHPA120PD	AIR-SOURCE HEAT PUMP WATER HEATER	120	50	208	1	12000	21.6	21.6	30	HSP,ET	
EW2	LOCHINVAR	CHPA120PD	AIR-SOURCE HEAT PUMP WATER HEATER	120	50	208	1	12000	21.6	21.6	30	HSP	

GAS PRESSURE REGULATOR SCHEDULE									
PLAN MARK	MANUFACTURER	MODEL	SYSTEM	MIN CAPACITY (MBH)	MAX CAPACITY (MBH)	INLET PRESSURE (PSIG)	OUTLET PRESSURE (IN. W.C.)	VALVE SIZE (IN)	NOTES
PR1	PIETRO FIORENTINI	31156/F	NATURAL GAS	0	4140	2	7	2.5	
PR2	PIETRO FIORENTINI	31156/F	NATURAL GAS	0	4140	2	7	2.5	
PR3	PIETRO FIORENTINI	31052	NATURAL GAS	0	80	2	7	0.75	

WATER PRESSURE REGULATOR SCHEDULE								
PLAN MARK	MANUFACTURER	MODEL	SYSTEM	INLET PRESSURE (PSIG)	OUTLET PRESSURE (PSIG)	VALVE SIZE (IN)	OPTIONS	NOTES
PR4	WATTS	LFF115	DOMESTIC WATER SERVICE	62	60	2		

WATER STORAGE PUMP/FILTRATION SCHEDULE																	
PLAN MARK	SERVICE	UNIT TYPE	MANUFACTURER	MODEL	PUMP			BLADDER TANK VOLUME (GAL)	FILTER TYPE	PROCESSING			ELECTRICAL				NOTES
					NUMBER OF PUMPS	FLOW RATE (GPM)	OUTLET PRESSURE (PSI)			FILTRATION LEVEL	SANITATION TYPE	SANITATION LEVEL	VOLTAGE	PHASE	MOCP	LENGTH	
WSP1	EMERGENCY WATER STORAGE	PUMP/FILTRATION SKID	WAHASO	CUSTOM	2	50	60	26	BAG FILTER	5 MICRON	ULTRAVIOLET	40 mJ/cm2	480	3	30	84	1,2,3,4

NOTES:
1. MANUFACTURER TO MOUNT BOOSTER PUMP, FILTRATION, AND CONTROLS ON SINGLE SKID. SKID TO BE PRE-PIPED AND WIRED AT THE FACTORY.
2. CONTROLS TO MONITOR AND REPORT TANK LEVEL TO CONTROL PANEL AND BAS. OPERATE PUMPS AND VFDs. MONITOR DIFFERENTIAL PRESSURE ACROSS FILTERS, TRACK HOURS OF USAGE AND REMAINING LIFE OF UV BULBS, AND TRACK TOTAL GALLONS OF WATER USED.
3. SYSTEM TO PREVENT STAGNATION WITH RECIRCULATION OF WATER. RECIRC WATER TO BE TREATED BY FILTRATION AND SANITATION.
4. PLC-BASED CONTROLS WITH BACNET INTEGRATION.

PLUMBING STORAGE TANK SCHEDULE									
PLAN MARK	SERVICE	MANUFACTURER	MODEL	VOLUME (GAL)	LENGTH (IN)	WIDTH (IN)	HEIGHT (IN)	OPTIONS	NOTES
WST1	EMERGENCY WATER STORAGE	WAHASO	CUSTOM	3000	192	96	62		

PLUMBING PRESSURIZED STORAGE TANK SCHEDULE									
PLAN MARK	MANUFACTURER	MODEL	MOUNTING	VOLUME (GAL)	DRAWDOWN (GAL)	OPERATING PRESSURE (PSI)	DIAMETER (IN)	HEIGHT(IN)	WEIGHT (LB)
ST1	FLEXCON	FT 35(S)	SIDEWAYS, ABOVE CEILING	9	2.16	60	12.5	19	90
ST2	FLEXCON	FT 35(S)	SIDEWAYS, ABOVE CEILING	9	2.16	60	12.5	19	90

PLUMBING ABBREVIATION LIST	
GENERAL NOTES	1. THE MANUFACTURER LISTED SHALL BE CONSIDERED THE BASIS OF DESIGN. EQUIPMENT AND ACCESSORIES SHALL BE SUPPLIED IN ACCORDANCE WITH THE SCHEDULED VALUES, NOTES, DETAILS, AND SPECIFICATIONS. THE MECHANICAL CONTRACTOR SHALL BE RESPONSIBLE FOR ALL ADDITIONAL COST AND COORDINATION WHEN NON BASIS OF DESIGN EQUIPMENT IS PROVIDED.
OPTIONS	AE5 0.5 GPM AERATOR AS PROVIDE ADJUSTABLE, SURFACE MOUNTED AQUASTAT - HONEYWELL LB00KC. SET AQUASTAT TO SHUT OFF RECIRCULATION PUMP AT 130F AND ON AT 125F. BF BOTTLE FILLER BGD INSINKERATOR BADGER 5XP, 3/4 HP GARBAGE DISPOSAL AND 73274K CHROME FINISH SINK TOP SWITCH BUTTON OPERATOR. BS BASKET STRAINER CC CAST IRON BODY AND CLAMPING COLLAR DSB DRAIN SEDIMENT BUCKET ESLC WHITE ELONGATED OPEN FRONT SEAT LESS COVER ET PROVIDE AMTROL ST-30VC-DD EXPANSION TANK. PRE-CHARGE EXPANSION TANK TO EQUAL THE COLD WATER STATIC PRESSURE AT WATER HEATER. FG FULL GRATE GD GRID DRAIN HG HALF GRATE HSP OPERATING TEMPERATURE SHALL BE SET TO 140F MSP MIXING TEMPERATURE SHALL BE SET TO 130F NBR NICKEL BRONZE RIM NBS 6" NICKEL BRONZE STRAINER PS PIPE SHROUD SB SAFETY BUBBLER SV QUARTER TURN STOP VALVES T TRAP TG PREVENT TRAP GUARD. TMV PROVIDE WITH POWERS LFE480-00 THERMOSTATIC MIXING VALVE SET TO 105F FOR LAVATORIES AND 115F FOR SINKS

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REVISION DATES:
3 ADDENDUM #3 11/18/2024
5 ASI 002 12/13/2024



PROFESSIONAL SEAL
P-601
ISSUE DATE: NOVEMBER 1, 2024
HOEFER WELKER #: 138191



ISSUE DATE: NOVEMBER 1, 2024
HOEFER WELKER #: 138191

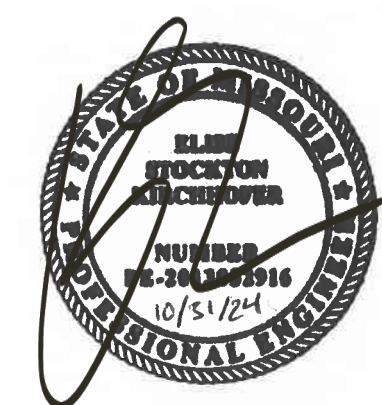
1 WASTE AND VENT RISER
NOT TO SCALE



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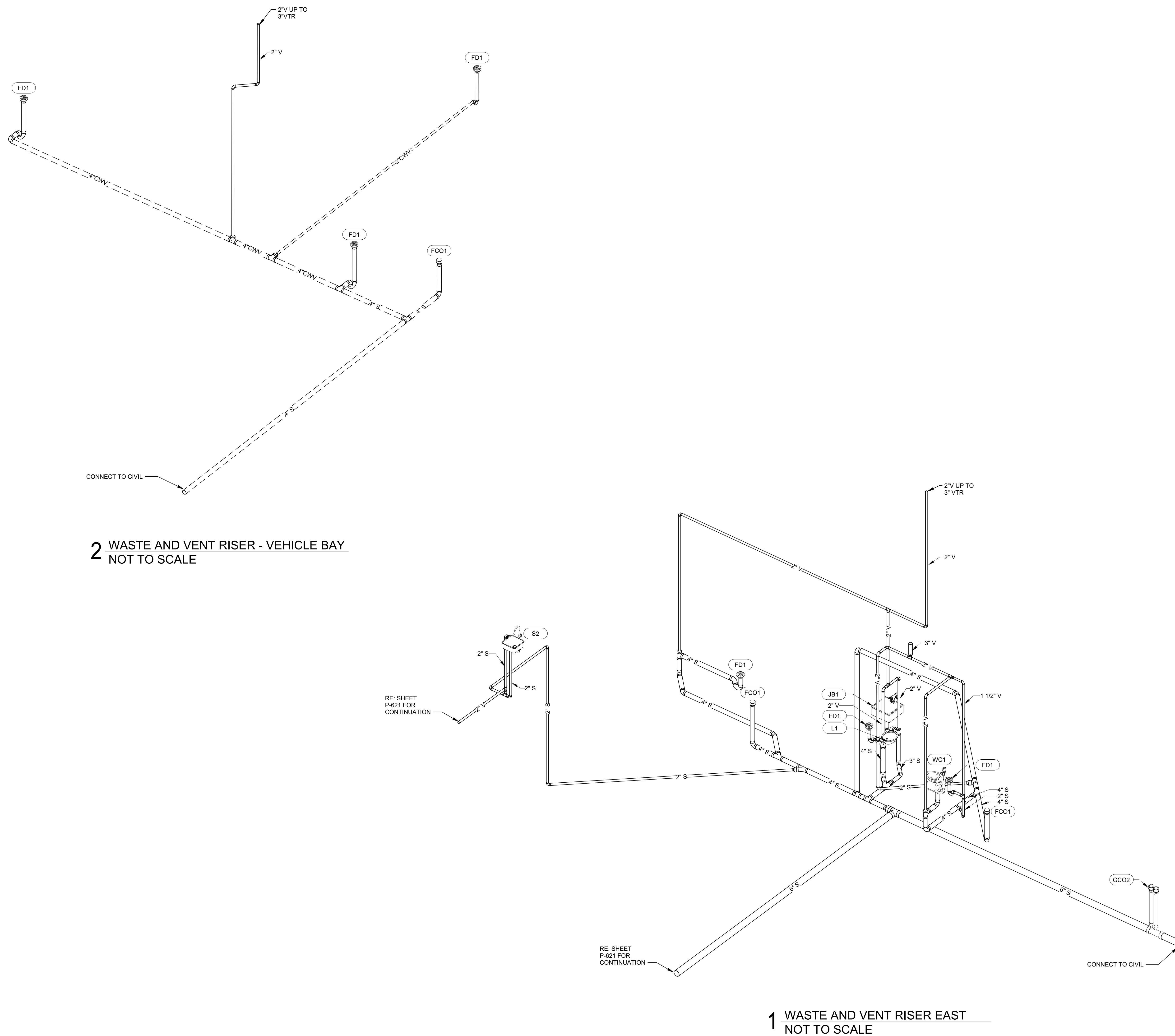


PROFESSIONAL SEAL

P-622

ISSUE DATE: NOVEMBER 1, 2021
HOEFER WELKER #: 138191

PLUMBING WASTE AND VENT RISER





GENERAL NOTES:

1. REFER TO SHEET MG001 FOR GENERAL MECHANICAL NOTES.

MECHANICAL PLAN NOTES:

M3	GEOTHERMAL TEST WELL, 400FT DEEP. INTEGRATE EXISTING PIPING INTO WELL FIELD.
M4	GEOTHERMAL WELL, 400FT DEEP, 5.5" DIAMETER. TYPICAL 17 WELLS. 1.25" HDPE PIPE. PROVIDE HIGH CONDUCTIVITY THERMAL BENTONITE GROUT FILL. WELLS SHALL BE SEPARATED BY 20 FT.

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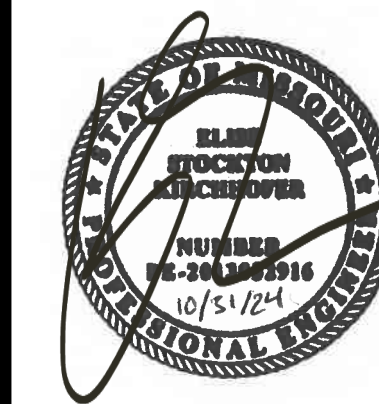
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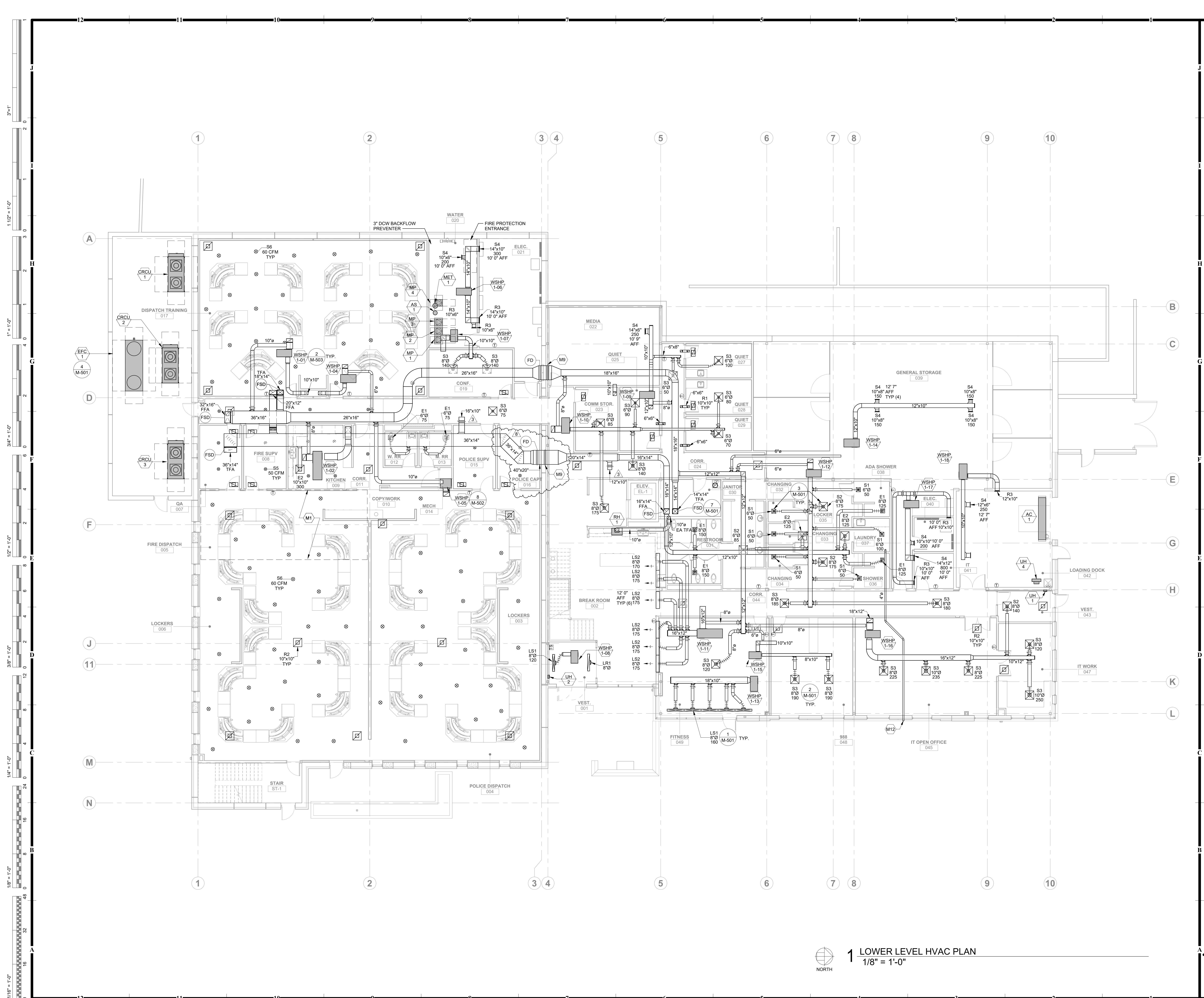
PROFESSIONAL SEAL

MS101

ISSUE DATE: NOVEMBER 1, 2024

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MECHANICAL SITE PLAN



- GENERAL NOTES:**
1. REFER TO SHEET MG001 FOR GENERAL MECHANICAL NOTES.
 2. ALL 12024 RETURN GRILLES ARE TYPE R1 WITH 10X10 NECK UNLESS INDICATED OTHERWISE ON PLANS.
 3. ALL 24024 RETURN GRILLES ARE TYPE R2 WITH 10X10 NECK UNLESS INDICATED OTHERWISE.
- MECHANICAL PLAN NOTES:**
- M1 LOWER STRUCTURE IN THIS AREA FOR SERVER ROOM UNDER FLOOR AIR DISTRIBUTION SYSTEM ABOVE.
 - M9 PROVIDE FIRE DAMPER, ICC 500 RATED STORM LOUVER, AND FLEXIBLE CONNECTION FOR DUCT PENETRATION THROUGH ICC 500 RATED STORM SHELTER WALL.
 - M12 PROVIDE BLACK WALL CAP WITH BACK DRAFT DAMPER.

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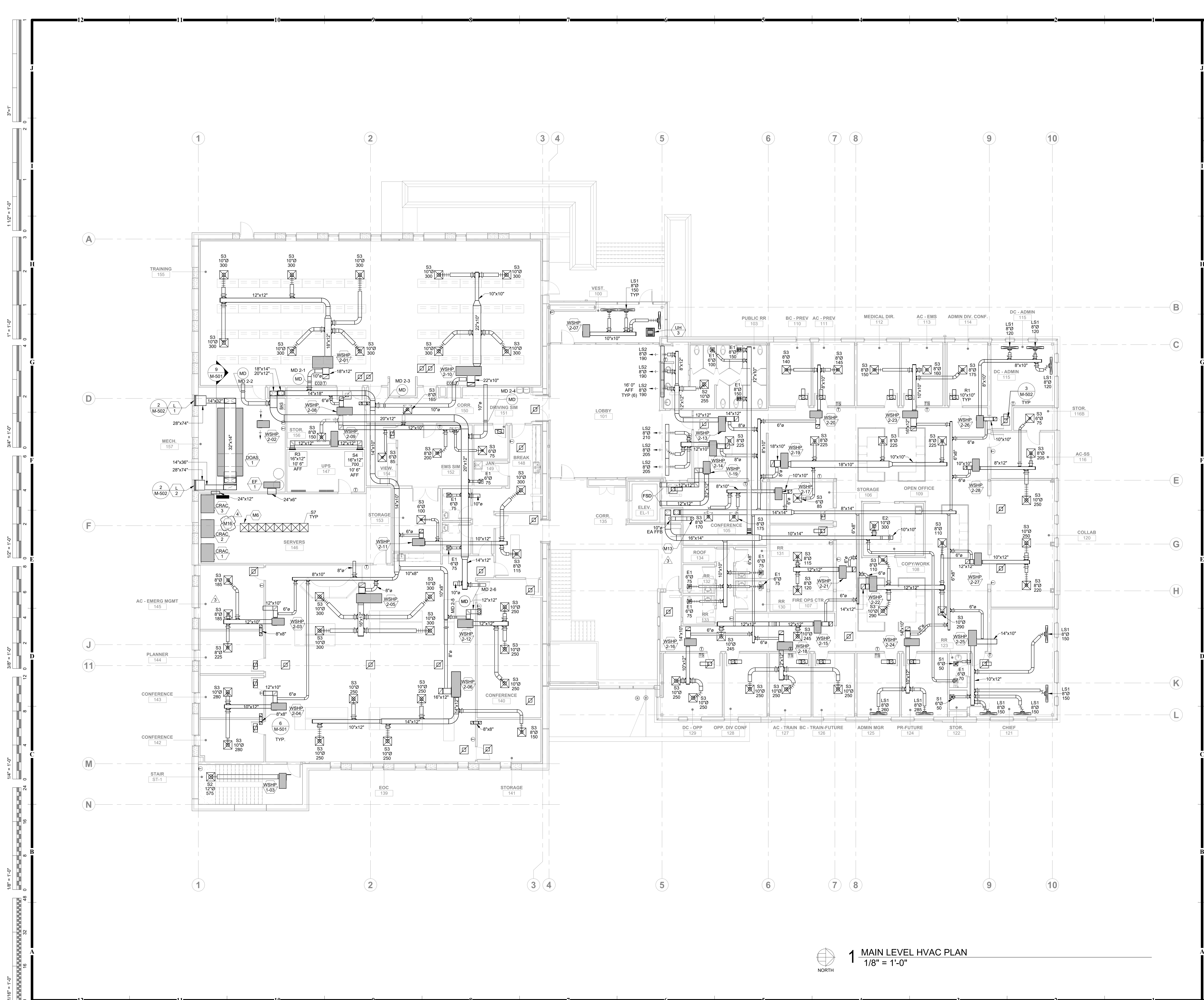
3	ADDENDUM #3	11/18/2024
8	ASI 003	12/18/2024



PROFESSIONAL SEAL
M-101
ISSUE DATE: NOVEMBER 1, 2024
HOEFER WELKER #: 138191

1 LOWER LEVEL HVAC PLAN
1/8" = 1'-0"

LOWER LEVEL - HVAC PLAN



GENERAL NOTES:

1. REFER TO SHEET MG001 FOR GENERAL MECHANICAL NOTES.
2. ALL 12X24 RETURN AIR REGISTERS ARE TYPE R1 WITH 10X10 NECKS UNLESS NOTED OTHERWISE. ACOUSTICAL BOOTS SHOWN WHERE REQUIRED.
3. ALL 24X24 RETURN AIR REGISTERS ARE TYPE R2 WITH 10X10 NECKS UNLESS NOTED OTHERWISE. ACOUSTICAL BOOTS SHOWN WHERE REQUIRED.

MECHANICAL PLAN NOTES:

- M6 FLOOR MOUNTED DIFFUSER BETWEEN SERVER RACKS.
- M13 10" EXHAUST DUCT UP TO ROOF. TERMINATE WITH GOOSE NECK DOWN, MINIMUM 30" ABOVE ROOF.
- M16 PROVIDE SMOKE DETECTOR ABOVE CRAC UNITS. CONNECT TO FIRE ALARM SYSTEM AND CRAC UNITS. IF SMOKE IS DETECTED, AN ALARM SHALL BE SENT TO THE GAS AND ALL CRAC UNITS SHALL SHUT OFF.

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3 ADDENDUM #3 11/18/2024
4 ADDENDUM #4 11/26/2024



PROFESSIONAL SEAL

M-102

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HOEFER WELKER #: 138191

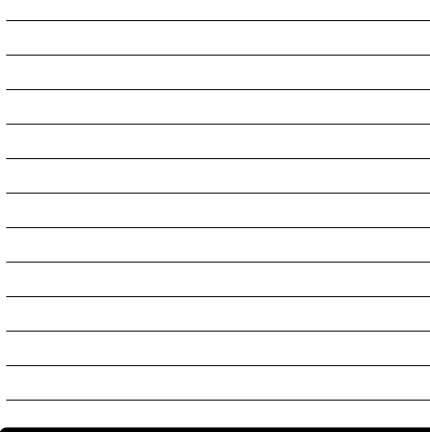
MAIN LEVEL - HVAC PLAN

1 MAIN LEVEL HVAC PLAN
1/8" = 1'-0"

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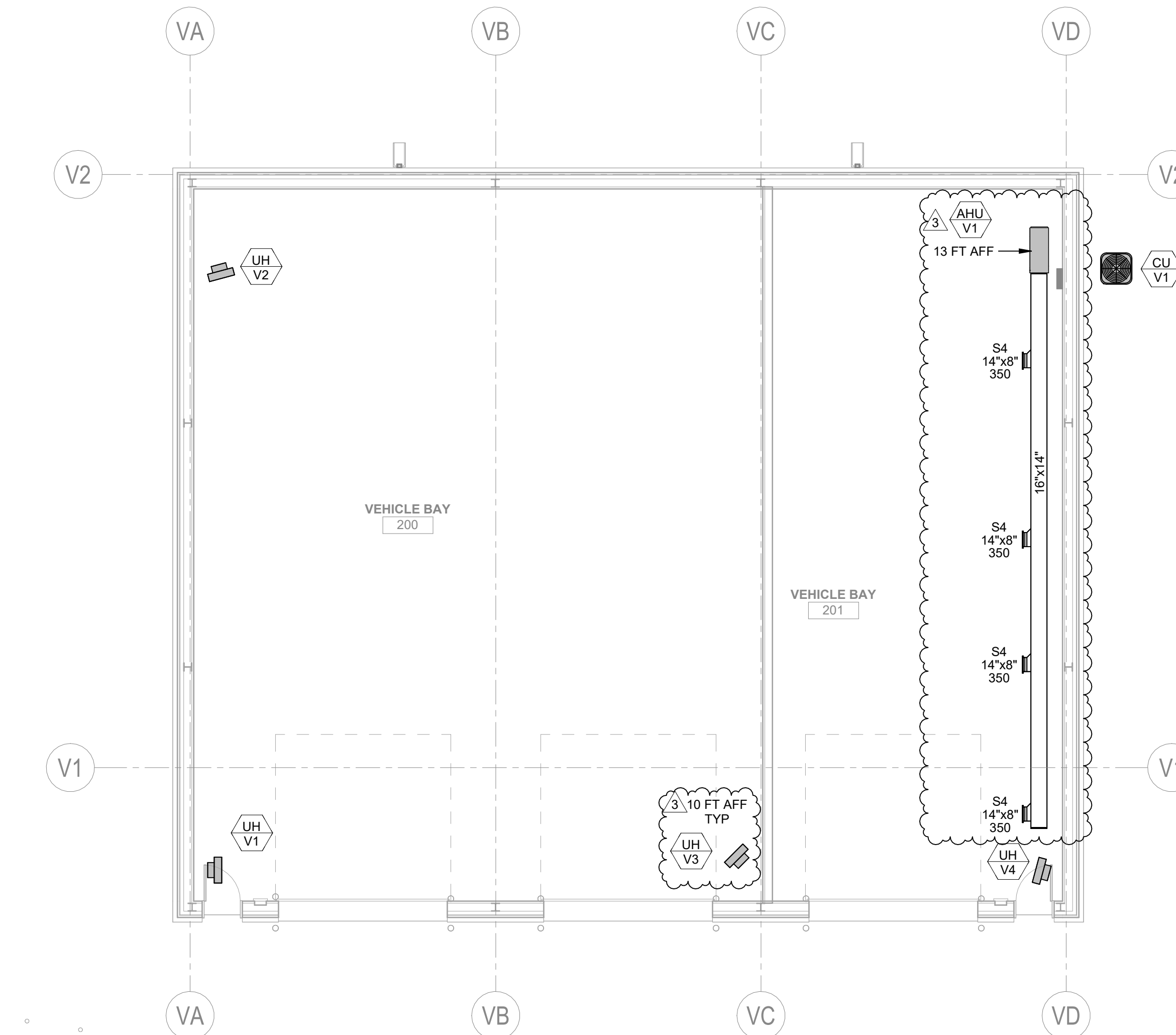
PACKAGE 2: CONSTRUCTION SET

3 ADDENDUM #3 11/18/202

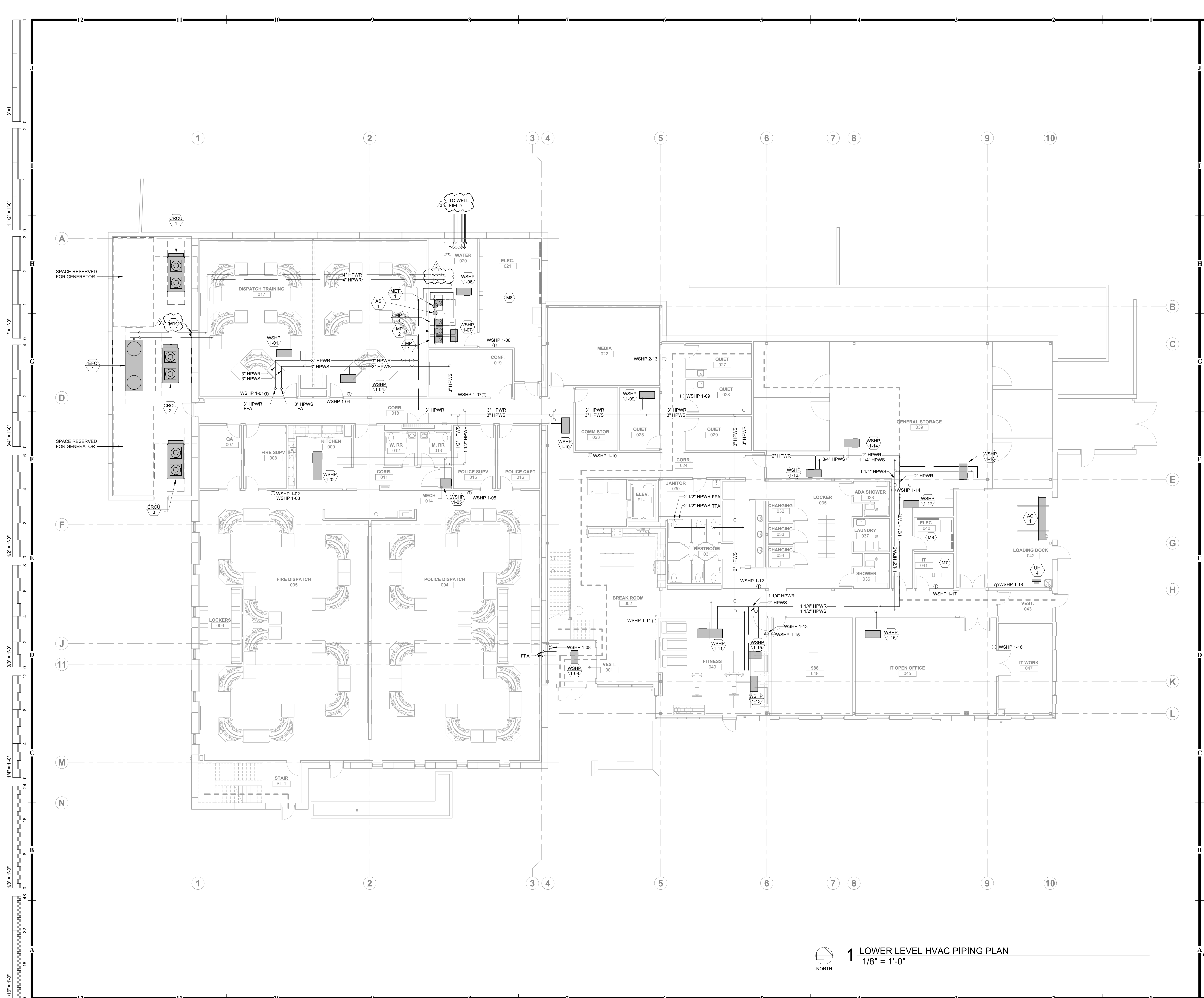


M-103

VEHICLE BUILDING - HVAC PLAN



1 VEHICLE BUILDING - MECHANICAL PLAN
1/8" = 1'-0"



- GENERAL NOTES:**
1. REFER TO SHEET MG001 FOR GENERAL MECHANICAL NOTES.
- MECHANICAL PLAN NOTES:**
- M7 DO NOT ROUTE HYDRONIC PIPING THROUGH IT SERVER ROOM.
 - M8 DO NOT ROUTE HYDRONIC PIPING THROUGH ELECTRICAL ROOM.
 - M14 PROVIDE ICC 500 RATED WALL SHROUD FOR LARGE PIPES EXITING STORM SHELTER.

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3	ADDENDUM #3	11/18/2024

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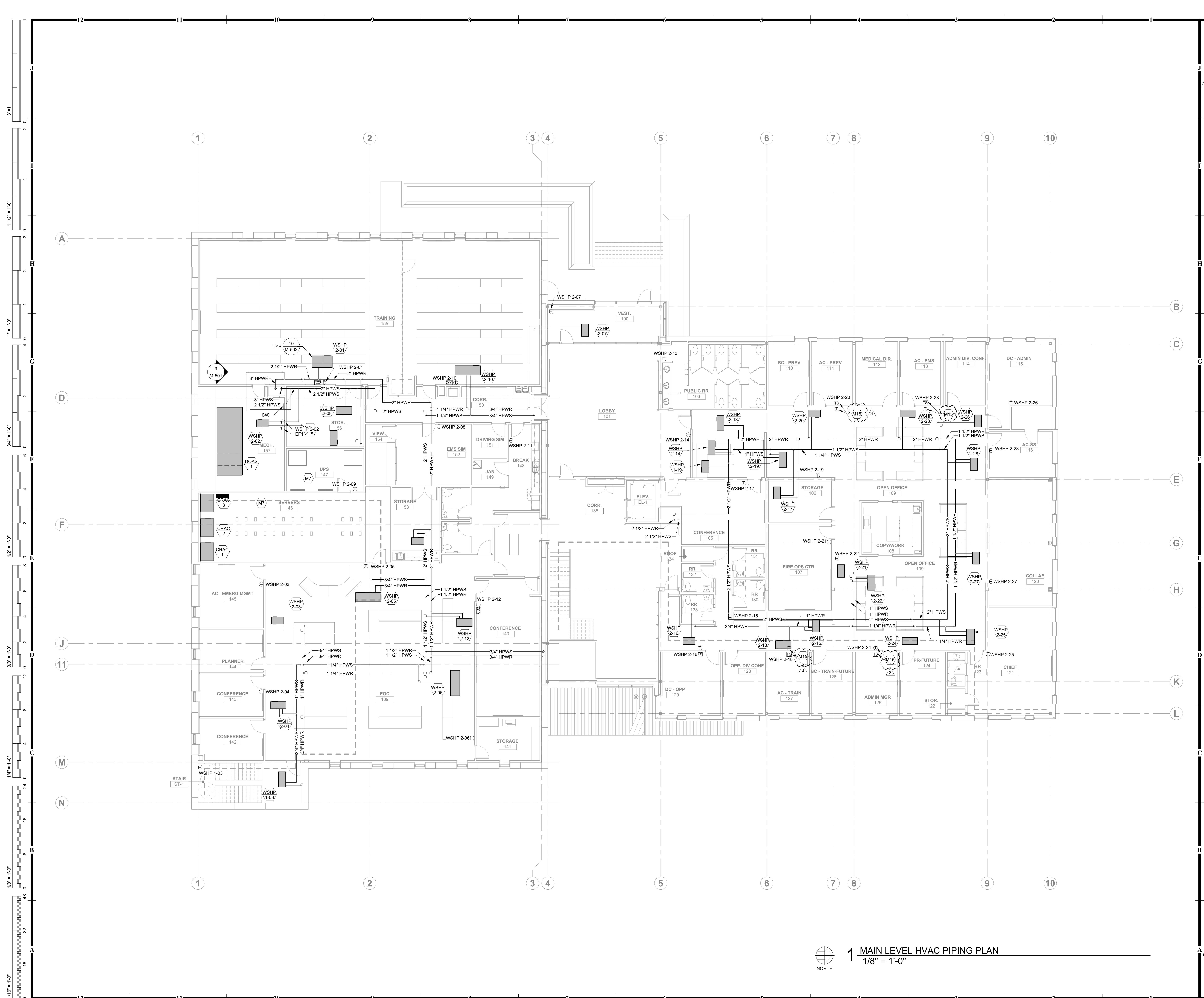
M-111

ISSUE DATE: NOVEMBER 1, 2024
HOEGER WELKER # 138191

STATE OF MISSOURI
EXCISE
STOCKHOLM
ARCHITECT
NUMBER
PE-2013032014
11/18/2024

1 LOWER LEVEL HVAC PIPING PLAN
1/8" = 1'-0"

LOWER LEVEL - PIPING PLAN



- GENERAL NOTES:**
1. REFER TO SHEET MG001 FOR GENERAL MECHANICAL NOTES.
- MECHANICAL PLAN NOTES:**
- M7 DO NOT ROUTE HYDRONIC PIPING THROUGH IT SERVER ROOM. THERMOSTAT SHALL READ TEMPERATURE FROM ASSOCIATED TEMPERATURE SENSOR IN OFFICE

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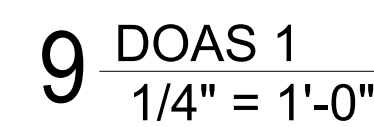
PROFESSIONAL SEAL

M-112
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HOEFER WELKER #: 138191

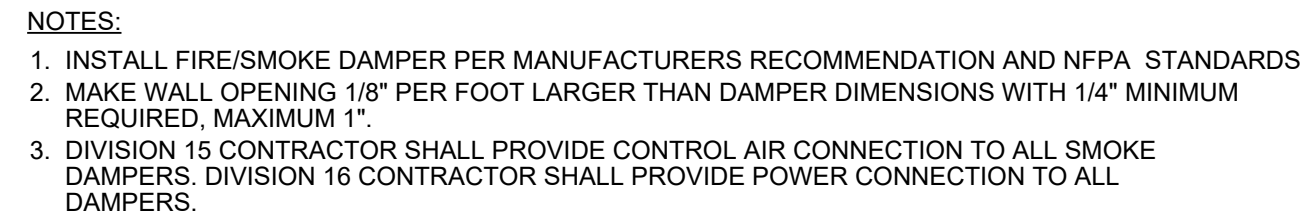
1 MAIN LEVEL HVAC PIPING PLAN
1/8" = 1'-0"

PACKAGE 2: CONSTRUCTION SET

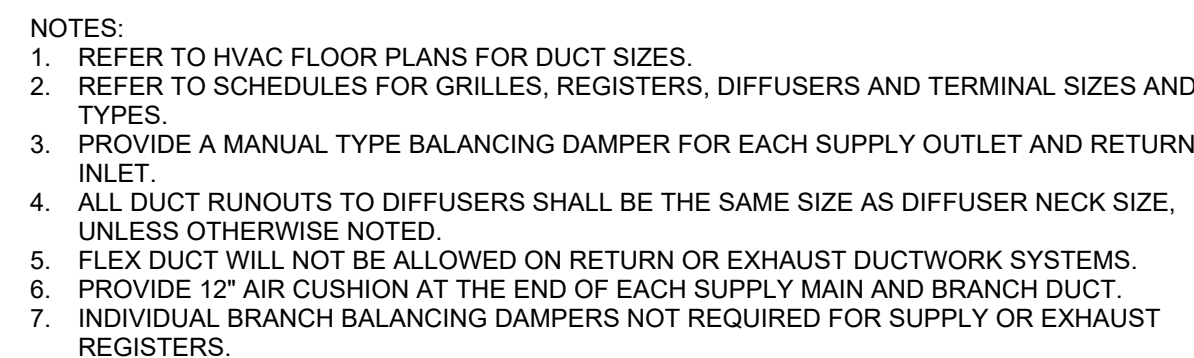
MAIN LEVEL - PIPING PLAN



7 FIRE/SMOKE DAMPER DETAIL
NOT TO SCALE

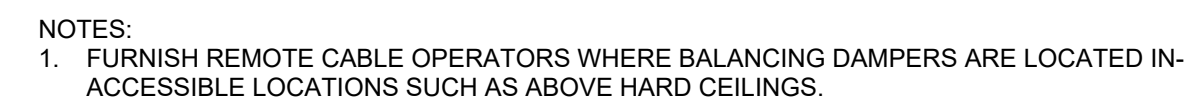


7 FIRE/SMOKE DAMPER DETAIL
NOT TO SCALE



4 FLUID COOLER DETAIL

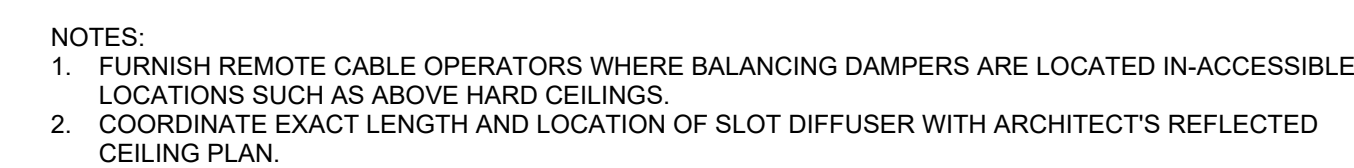
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3 HARD CEILING DIFFUSER DETAIL



1 LINEAR SLOT DIFFUSER DETAIL
NOT TO SCALE

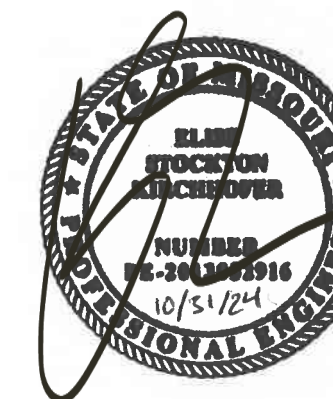




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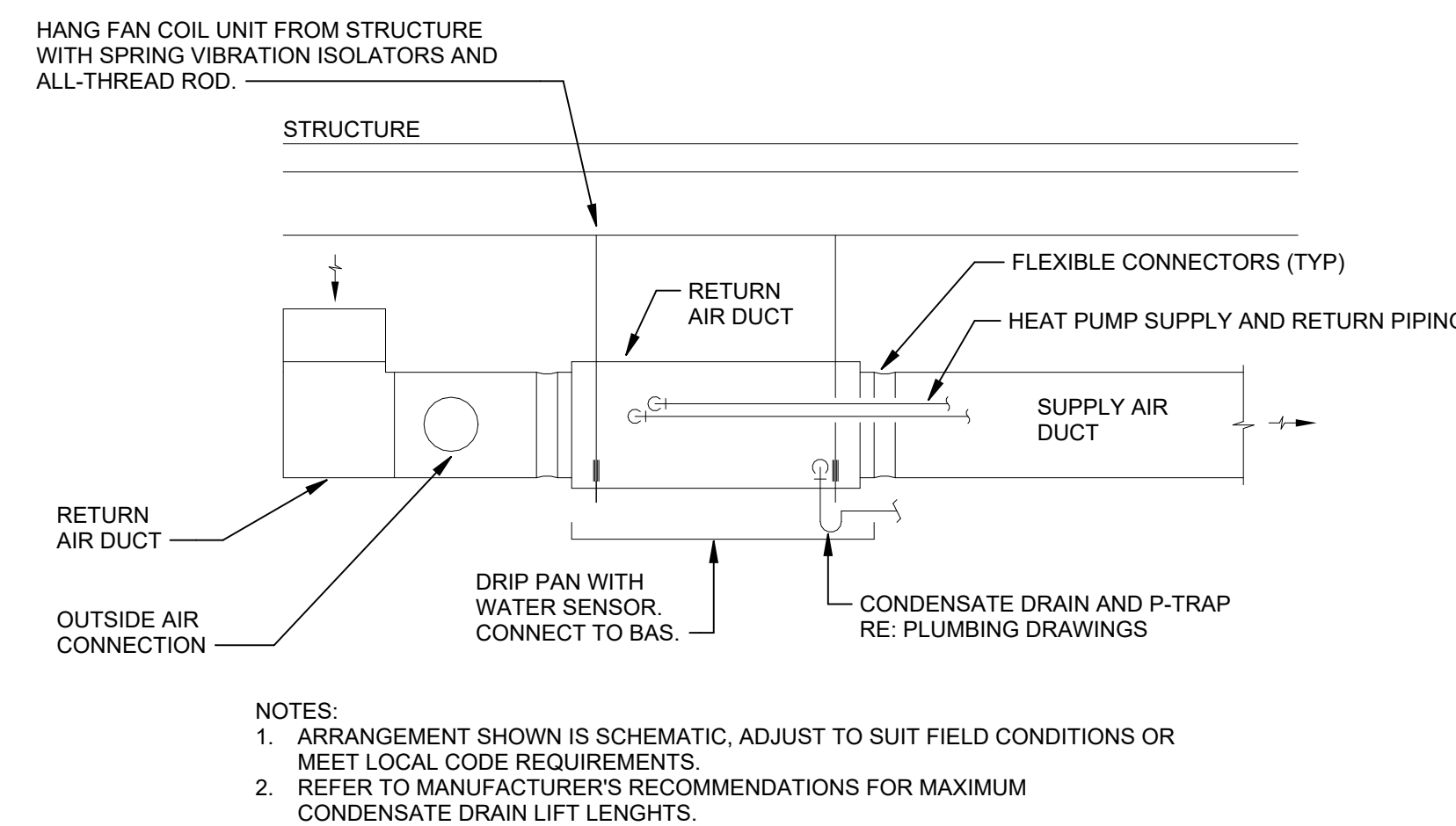


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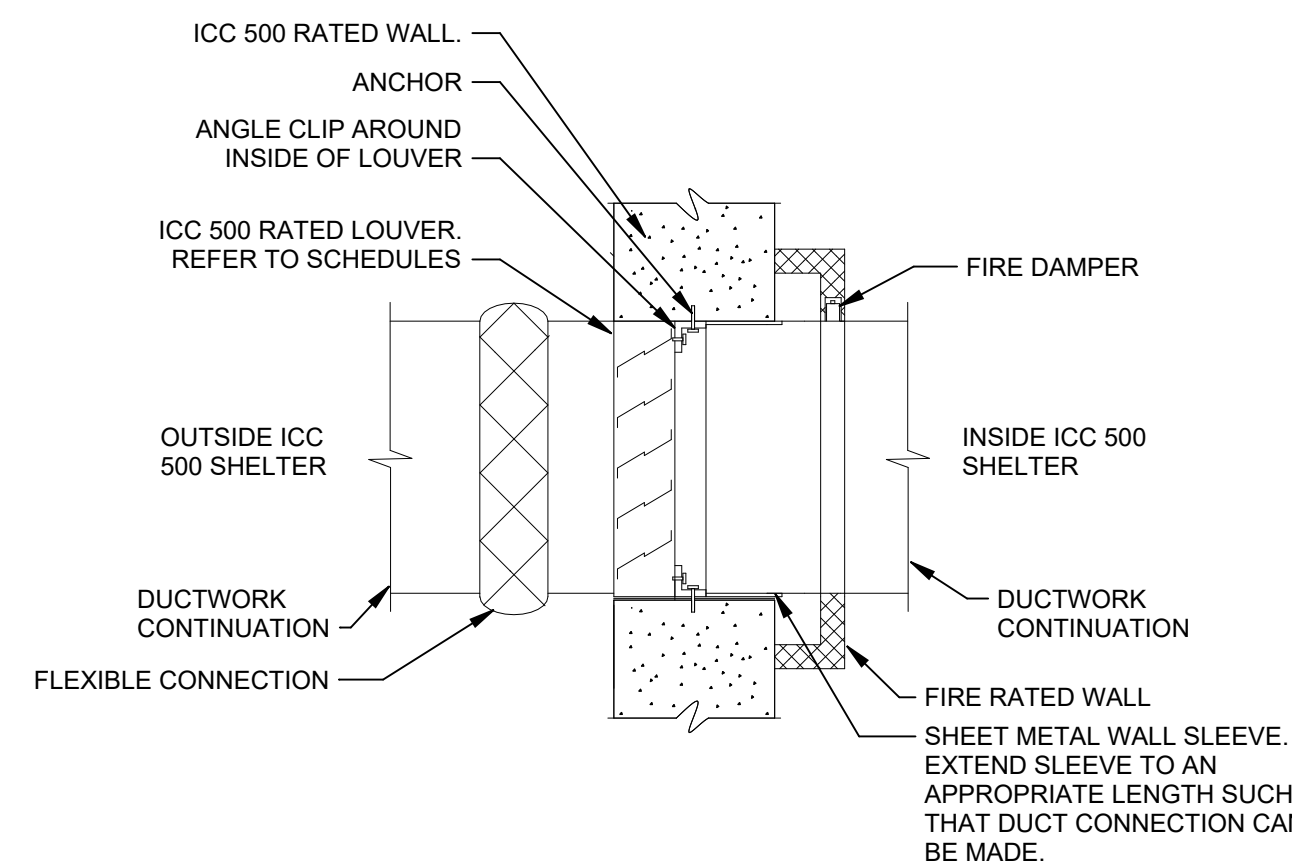
M-503

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HOEFER WELKER #: 1381

MECHANICAL DETAILS



2 WATER SOURCE HEAT PUMP UNIT - CEILING CONCEALED
NOT TO SCALE



1 DUCT PENETRATION THROUGH ICC 500 WALL
NOT TO SCALE

NOTES:

1. TOTAL ENERGY RECOVERY WHEEL SHALL BE INTEGRATED INTO DOAS 1 SHOWN ABOVE
2. PROVIDE VFD DEFROST CONTROL AND BYPASS DAMPERS.
3. COOLING EFFECTIVENESS: TOTAL=72%, SENSIBLE=74%.
4. HEATING EFFECTIVENESS: TOTAL=77%, SENSIBLE=80%.

SUPPLY FAN							COOLING COIL							HEATING COIL							ELECTRICAL							PHYSICAL PROPERTIES							
WHP	LOF	MANUFACTURER	MODEL	AIRFLOW (CFM)	ESP (IN)	STARTER TYPE	TOTAL (M3H)	SENSIBLE (MBH)	DB (DEG.F)	EAT (DEG.F)	WB (DEG.F)	DB (DEG.F)	WB (DEG.F)	FLOW RATE (GPM)	EWT (DEG.F)	LWT (DEG.F)	MIN. OUTPUT (BTUH)	EAT (DEG.F)	LAT (DEG.F)	WB (DEG.F)	LWT (DEG.F)	MAX WPO (FT)	CONTROL (STAGED/MOD)	MIN O/A AIRFLOW (CFM)	VOLTAGE	PHASE	FLA	MCA	MOCP	LENGTH (IN)	WIDTH (IN)	HEIGHT (IN)	WEIGHT (LBS)	OPTIONS ³	NOTES
WSPH-101	CLIMATE MASTER	SC-024	900	0.05	ECM	20.3	18.0	75.0	63.0	55.0	53.0	53.0	53.0	5.0	80.0	90.0	8.4	68.0	90.0	50.0	40.0	11.0	2	110	460	3	5.0	6.0	15	43"	21"	18"	175	DP DSN,ESM,H,K,PFB,RDS	2-8
WSPH-102	CLIMATE MASTER	SE-900	1800	0.05	ECM	45.5	38.8	75.0	63.0	55.0	53.0	53.0	53.0	12.5	80.0	90.0	5.3	68.0	90.0	50.0	40.0	11.0	2	345	460	3	12.5	14.1	15	81"	26"	22"	475	DP DSN,ESM,H,K,PFB,RDS	2-8
WSPH-103	CLIMATE MASTER	SC-012	700	0.05	ECM	21.7	17.0	75.0	63.0	55.0	53.0	53.0	53.0	3.1	80.0	90.0	8.5	68.0	90.0	50.0	40.0	11.0	2	90	277	1	6.5	7.6	15	35"	20"	12"	160	DP DSN,ESM,H,K,PFB,RDS	2-8
WSPH-104	CLIMATE MASTER	SC-018	750	0.05	ECM	16.1	14.3	75.0	63.0	55.0	53.0	53.0	53.0	3.8	80.0	90.0	4.8	68.0	90.0	50.0	40.0	11.0	1	110	277	1	8.4	10.0	15	44"	23"	18"	155	DP DSN,ESM,H,K,PFB,RDS	2-8
WSPH-105	CLIMATE MASTER	SE-048	1200	0.05	ECM	31.8	28.0	75.0	63.0	55.0	53.0	53.0	53.0	10.0	80.0	90.0	3.6	68.0	90.0	50.0	40.0	11.0	2	310	460	3	11.6	13.3	15	55"	31"	26"	450	DP DSN,ESM,H,K,PFB,RDS	1,3-8
WSPH-106	CLIMATE MASTER	SC-015	700	0.05	ECM	18.4	10.1	75.0	63.0	55.0	53.0	53.0	53.0	3.1	80.0	90.0	3.3	68.0	90.0	50.0	40.0	11.0	1	55	277	1	6.9	8.2	15	43"	20"	18"	155	DP DSN,ESM,H,K,PFB,RDS	2-8
WSPH-107	CLIMATE MASTER	SC-009	300	0.05	ECM	7.0	5.0	75.0	63.0	55.0	53.0	53.0	53.0	1.9	80.0	90.0	1.6	68.0	90.0	50.0	40.0	11.0	1	50	277	1	5.9	6.8	15	34"	20"	12"	110	DP DSN,ESM,H,K,PFB,RDS	2-8
WSPH-108	CLIMATE MASTER	SC-012	700	0.05	ECM	20.3	17.0	75.0	63.0	55.0	53.0	53.0	53.0	3.1	80.0	90.0	8.5	68.0	90.0	50.0	40.0	11.0	2	90	277	1	6.5	7.6	15	35"	20"	12"	160	DP DSN,ESM,H,K,PFB,RDS	2-8
WSPH-109	CLIMATE MASTER	SC-015	700	0.05	ECM	11.0	9.5	75.0	63.0	55.0	53.0	53.0	53.0	3.1	80.0	90.0	7.3	68.0	90.0	50.0	40.0	11.0	1	135	277	1	6.9	8.2	15	43"	20"	18"	155	DP DSN,ESM,H,K,PFB,RDS	2-8
WSPH-110	CLIMATE MASTER	SC-018	750	0.05	ECM	16.3	13.3	75.0	63.0	55.0	53.0	53.0	53.0	3.8	80.0	90.0	5.4	68.0	90.0	50.0	40.0	11.0	1	150	277	1	8.4	10.0	15	44"	23"	18"	160	DP DSN,ESM,H,K,PFB,RDS	2-8
WSPH-111	CLIMATE MASTER	SC-036	1350	0.05	ECM	21.7	20.0	75.0	63.0	55.0	53.0	53.0	53.0	7.5	80.0	90.0	13.9	68.0	90.0	50.0	40.0	11.0	2	100	460	3	9.3	10.4	15	72"	26"	22"	360	DP DSN,ESM,H,K,PFB,RDS	2-8
WSPH-112	CLIMATE MASTER	SC-018	750	0.05	ECM	18.7	13.8	75.0	63.0	55.0	53.0	53.0	53.0	5.0	80.0	90.0	8.5	68.0	90.0	50.0	40.0	11.0	2	100	460	3	9.3	10.4	15	72"	26"	22"	360	DP DSN,ESM,H,K,PFB,RDS	2-8
WSPH-113	CLIMATE MASTER	SC-024	900	0.05	ECM	23.8	14.4	75.0	63.0	55.0	53.0	53.0	53.0	5.0	80.0	90.0	8.2	68.0	90.0	50.0	40.0	11.0	2	180	460	3	5.0	6.0	15	43"	21"	18"	175	DP DSN,ESM,H,K,PFB,RDS	2-8
WSPH-114	CLIMATE MASTER	SC-018	750	0.05	ECM	13.8	13.4	75.0	63.0	55.0	53.0	53.0	53.0	3.8	80.0	90.0	8.1	68.0	90.0	50.0	40.0	11.0	1	195	277	1	8.4	10.0	15	44"	23"	18"	160	DP DSN,ESM,H,K,PFB,RDS	2-8
WSPH-115	CLIMATE MASTER	SC-012	400	0.05	ECM	7.9	6.8	75.0	63.0	55.0	53.0	53.0	53.0	2.5	80.0	90.0	2.7	68.0	90.0	50.0	40.0	11.0	1	60	277	1	6.5	7.6	15	35"	20"	12"	120	DP DSN,ESM,H,K,PFB,RDS	2-8
WSPH-116	CLIMATE MASTER	SC-024	900	0.05	ECM	19.4	16.7	75.0	63.0	55.0	53.0	53.0	53.0	5.0	80.0	90.0	10.2	68.0	90.0	50.0	40.0	11.0	2	150	460	3	5.0	6.0	15	43"	21"	18"	175	DP DSN,ESM,H,K,PFB,RDS	2-8
WSPH-117	CLIMATE MASTER	SC-012	700	0.05	ECM	17.9	16.1	75.0	63.0	55.0	53.0	53.0	53.0	3.1	80.0	90.0	15.1	68.0	90.0	50.0	40.0	11.0	2	175	460	3	5.0	6.0	15	43"	21"	18"	175	DP DSN,ESM,H,K,PFB,RDS	2-8
WSPH-118	CLIMATE MASTER	SC-018	750	0.05	ECM	16.9	8.9	75.0	63.0	55.0	53.0	53.0	53.0	3.8	80.0	90.0	10.7	68.0	90.0	50.0	40.0	11.0	1	0	277	1	8.4	10.0	15	44"	23"	18"	160	DP DSN,ESM,H,K,PFB,RDS	2-8
WSPH-119	CLIMATE MASTER	SC-012	400	0.3	ECM	10.7	10.6	75.0	63.0	55.0	53.0	53.0	53.0	2.5	80.0	90.0	0.5	68.0	90.0	50.0	40.0	11.0	1	0	277	1	6.5	7.6	15	35"	20"	12"	120	DP DSN,ESM,H,K,PFB,RDS	1,3-8
WSPH-201	CLIMATE MASTER	SE-048	1600	0.05	ECM	49.0	36.4	0.0	63.0	55.0	53.0	53.0	53.0	10.0	80.0	90.0	20.0	68.0	90.0	50.0	40.0	11.0	2	490	460	3	11.6	13.3	15	58"	33"	21"	450	DP DSN,ESM,H,K,PFB,RDS	2-8
WSPH-202	CLIMATE MASTER	SC-012	400	0.05	ECM	6.4	6.0	75.0	63.0	55.0	53.0	53.0	53.0	2.5	80.0	90.0	4.2	68.0	90.0	50.0	40.0	11.0	1	0	277	1	6.5	7.6	15	35"	20"	12"	120	DP DSN,ESM,H,K,PFB,RDS	2-8
WSPH-203	CLIMATE MASTER	SC-012	400	0.05	ECM	10.4	9.1	75.0	63.0	55.0	53.0	53.0	53.0	2.5	80.0	90.0	6.3	68.0	90.0	50.0	40.0	11.0	1	0	277	1	6.5	7.6	15	35"	20"	12"	120	DP DSN,ESM,H,K,PFB,RDS	2-8
WSPH-204	CLIMATE MASTER	SC-015	700	0.05	ECM	13.4	9.8	75.0	63.0	55.0	53.0	53.0	53.0	3.1	80.0	90.0	5.2	68.0	90.0	50.0	40.0	11.0	1	125	277	1	6.9	8.2	15	43"	20"	18"	155	DP DSN,ESM,H,K,PFB,RDS	2-8
WSPH-205	CLIMATE MASTER	SC-036	1350	0.05	ECM	27.1	21.6	75.0	63.0	55.0	53.0	53.0	53.0	7.5	80.0	90.0	8.0	68.0	90.0	50.0	40.0	11.0	2	160	460	3	9.3	10.4	15	72"	26"	22"	360	DP DSN,ESM,H,K,PFB,RDS	2-8
WSPH-206	CLIMATE MASTER	SC-036	1350	0.05	ECM	27.9	23.0	75.0	63.0	55.0	53.0	53.0	53.0	7.5	80.0	90.0	14.5	68.0	90.0	50.0	40.0	11.0	2	170	460	3	9.3	10.4	15	72"	26"	22"	360	DP DSN,ESM,H,K,PFB,RDS	2-8
WSPH-207	CLIMATE MASTER	SC-018	750	0.05	ECM	12.7	8.1	75.0	63.0	55.0	53.0	53.0	53.0	3.8	80.0	90.0	7.5	68.0	90.0	50.0	40.0	11.0	1	100	277	1	8.4	10.0	15	44"	23"	18"	160	DP DSN,ESM,H,K,PFB,RDS	2-8
WSPH-208	CLIMATE MASTER	SC-016	750	0.05	ECM	15.6	13.7	75.0	63.0	55.0	53.0	53.0	53.0	3.8	80.0	90.0	7.5	68.0	90.0	50.0	40.0	11.0	1	125	277	1	8.4	10.0	15	44"	23"	18"	160	DP DSN,ESM,H,K,PFB,RDS	2-8
WSPH-209	CLIMATE MASTER	SC-015	700	0.05	ECM	12.9	12.5	75.0	63.0	55.0	53.0	53.0	53.0	3.1	80.0	90.0	0.0	68.0	90.0	50.0	40.0	11.0	1	50	277	1	6.9	8.2	15	43"	20"	18"	155	DP DSN,ESM,H,K,PFB,RDS	2-8
WSPH-210	CLIMATE MASTER	SC-036	1350	0.05	ECM	36.5	27.0	75.0	63.0	55.0	53.0	53.0	53.0	7.5	80.0	90.0	12.9	68.0	90.0	50.0	40.0	11.0	2	360	460	3	9.3	10.4	15	72"	26"	22"	360	DP DSN,ESM,H,K,PFB,RDS	2-8
WSPH-211	CLIMATE MASTER	SC-012	400	0.05	ECM	9.5	9.1	75.0	63.0	55.0	53.0	53.0	53.0	2.5	80.0	90.0	4.7	68.0	90.0	50.0	40.0	11.0	1	60	277	1	6.5	7.6	15	35"	20"	12"	120	DP DSN,ESM,H,K,PFB,RDS	2-8
WSPH-212	CLIMATE MASTER	SC-018	750	0.05	ECM	15.2	7.4	75.0	63.0	55.0	53.0	53.0	53.0	3.8	80.0	90.0	2.3	68.0	90.0	50.0	40.0	11.0	1	60	277	1	8.4	10.0	15	44"	23"	18"	160	DP DSN,ESM,H,K,PFB,RDS	2-8
WSPH-213	CLIMATE MASTER	SC-015	700	0.05	ECM	14.4	13.3	75.0	63.0	55.0	53.0	53.0	53.0	3.1	80.0	90.0	5.6	68.0	90.0	50.0	40.0	11.0	1	60	277	1	6.9	8.2	15	43"	20"	18"	155	DP DSN,ESM,H,K,PFB,RDS	2-8
WSPH-214	CLIMATE MASTER	SC-015	700	0.05	ECM	12.0	10.8	75.0	63.0	55.0	53.0	53.0	53.0	3.1	80.0	90.0	2.8	68.0	90.0	50.0	40.0	11.0	1	95	277	1	6.9	8.2	15	43"	20"	18"	155	DP DSN,ESM,H,K,PFB,RDS	2-8
WSPH-215	CLIMATE MASTER	SC-012	400	0.05	ECM	8.9	8.0	75.0	63.0	55.0	53.0	53.0	53.0	2.5	80.0	90.0	7.0	68.0	90.0	50.0	40.0	11.0	1	55	277	1	6.5	7.6	15	35"	20"	12"	120	DP DSN,ESM,H,K,PFB,RDS	2-8
WSPH-216	CLIMATE MASTER	SC-009	300	0.05	ECM	8.2	7.5	75.0	63.0	55.0	53.0	53.0	53.0	1.9	80.0	90.0	5.3	68.0	90.0	50.0	40.0	11.0	1	50	277	1	5.9	6.8	15	34"	20"	12"	110	DP DSN,ESM,H,K,PFB,RDS	2-8
WSPH-217	CLIMATE MASTER	SC-012	700	0.05	ECM	20.3	17.0	75.0	63.0	55.0	53.0	53.0	53.0	3.1	80.0	90.0	8.5	68.0	90.0	50.0	40.0	11.0	2	90	277	1	6.5	7.6	15	35"	20"	12"	160	DP DSN,ESM,H,K,PFB,RDS	2-8
WSPH-218	CLIMATE MASTER	SC-018	750	0.05	ECM	14.8	13.1	75.0	63.0	55.0	53.0	53.0	53.0	3.8	80.0	90.0	8.2	68.0	90.0	50.0	40.0	11.0	1	60	277	1	8.4	10.0	15	44"	23"	18"	160	DP DSN,ESM,H,K,PFB,RDS	2-8
WSPH-219	CLIMATE MASTER	SC-024	900	0.05	ECM	20.9	17.3	75.0	63.0	55.0	53.0	53.0	53.0	5.0	80.0	90.0	8.2	68.0	90.0	50.0	40.0	11.0	2	150	460	3	5.0	6.0	15	43"	21"	18"	175	DP DSN,ESM,H,K,PFB,RDS	2-8
WSPH-220	CLIMATE MASTER	SC-012	400	0.05	ECM																														

PLAN MARK	MANUFACTURER	MODEL	UNIT TYPE	AIRFLOW (CFM)	ESP (IN)	UNIT WIDTH (IN)	OUTLET DIAMETER (IN)	ELECTRICAL					PHYSICAL PROPERTIES			NOTES	
								VOLTAGE	PHASE	FLA	MCA	MCCP	LENGTH (IN)	WIDTH (IN)	HEIGHT (IN)		OPTIONS
RH 1	GREENHECK	GRRS	WALL MOUNTED	250	0.3	30"	8"	120	1	1.6	1.6	1.5	20"	30"	28"	DSN.EEF.SFS.SJ.UIT	1-4

PLAN MARK	AREA SERVED	MANUFACTURER	MODEL	MOUNTING	AIRFLOW (CFM)	ESP (IN)	DRIVE	BRAKE HP	MIN HP	FAN RPM	STARTER TYPE	ELECTRICAL				OPTIONS		NOTES
												VOLTAGE	PHASE	FLA	MCCP			
EF 1	MECH RM	GREENHECK	CSP-A3300-VG	SUSPEND	2000	0.5	DD	0.39	0.39	1080	ECM	277	1	8.0	15	DSN	1.2	
NOTES:																		
1. FURNISH NECESSARY MOUNTING BRACKET AND ACCESSORIES FOR SUSPENSION FROM STRUCTURE.																		
2. FAN CONTROLLED BY THERMOSTAT. SET INTERNAL FAN WILL ACTIVATE WHEN THERMOSTAT READS 70 DEGREES OR LOWER.																		

PLAN NO.	AREA SERVED	MANUFACTURER	MODEL	MOUNTING LOCATION	OVERALL LENGTH (IN)	MAX AIRFLOW (CFM)	NOMINAL (KW)	FAN QUANTITY	MOTOR HP	ELECTRICAL				OPTIONS	NOTES
										VOLTAG	PHASE	FLA	MOC		
AC 1	LOADING DOCK	POWERED AIR	MP-2-120	SUSPEND	120"	3218	0.0	2	0.20	120	1	8.8	15	DSN,MDC,STC	1-2
NOTES:															
1.	SUSPEND AIR CURTAIN AT SAME HEIGHT AS ROLL UP DOOR.														
2.	FANS SHALL ACTIVATE WHEN ROLLING DOOR OPENS VIA MAGNETIC DOOR SWITCH. FANS SHALL BE OVERRIDDEN BY OCCUPANTS AT SMART TOUCH CONTROLLER.														

PLAN MARK	AREA SERVED	SERVICE	MANUFACTURER	MODEL	WIDTH (IN)	HEIGHT (IN)	AIRFLOW (CFM)	MIN FREE AREA (SF)	VELOCITY (FPM)	MAX APD (IN WC)	OPTIONS	NOTES
L 1	DOAS	INTAKE	RUSKIN	AFL 501	30"	76"	4500	7.41	800	0.10	AC,BS	1-3
L 2	DOAS	RELIEF	RUSKIN	AFL 501	30"	76"	4500	7.41	800	0.10	AC,BS	1-3

NOTES:

- COORDINATE LOUVER SIZE AND JAMB WITH ARCHITECT. CONTRACTOR TO VERIFY SIZE OF OPENINGS.
- COLOR=STATORY BRONZE. CONFIRM COLOR SELECTION WITH ARCHITECTS.
- LOUVER SHALL BE ICC 500 RATED.

PLAN MARK	AREA SERVED	MANUFACTURER	MODEL	MOUNTING TYPE	AIRFLOW (CFM)	NOMINAL (KW)	ELECTRICAL				OPTIONS	NOTES
							VOLTAGE	PHASE	FLA	MCCP		
UH 1	VEST 041	RAYWALL	AFA	WALL	175	1.5	277	1	4.1	15	DSN.TI	1.2
UH 2	VEST 001	RAYWALL	AFA	WALL	175	1.5	277	1	4.1	15	DSN.TI	1.2
UH 3	MAIN FLR VEST	RAYWALL	RCH	CEILING	600	2.0	277	1	7.2	15	DSN.TI	1.2
UH 4	LOADING DOCK	RAYWALL	5100	RECESSED SUSPEND	400	3.3	277	3	11.9	15	DSN.TI	1.3,4
UH V1	VEHICLE BAY	RAYWALL	F3FHU	SUSPEND	575	7.5	208	3	20.8	30	DSN.TI	1.3,4
UH V2	VEHICLE BAY	RAYWALL	F3FHU	SUSPEND	575	7.5	208	3	20.8	30	DSN.TI	1.3,4
UH V3	VEHICLE BAY	RAYWALL	F3FHU	SUSPEND	575	7.5	208	3	20.8	30	DSN.TI	1.3,4
UH V4	VEHICLE BAY	RAYWALL	F3FHU	SUSPEND	400	3.3	208	3	9.2	15	DSN.TI	1.3,4

NOTES:

- FURNISH NECESSARY MOUNTING BRACKET AND ACCESSORIES FOR RECESSED MOUNTING.
- SET INTERNAL THERMOSTAT TO MAINTAIN APPROXIMATELY 55 DEGREES.
- SET INTERNAL THERMOSTAT TO MAINTAIN APPROXIMATELY 50 DEGREES.
- PROVIDE FAN GUARD AND DISCHARGE LOUVERS. AIR LOUVERS 45 DEGREES TOWARDS THE GROUND.

OPTIONS
AC ALUMINUM CONSTRUCTION
AS AIRFLOW SWITCH
ASD AIR SCOPD DEVICE
BS BIRDSCREEN
BSK BREAKER SEAL KIT
CAB COMPRESSOR ASSEMBLY BLANKET
CL COLOR BY ARCHITECT
CPE CONDENSATE PUMP - EXTERNAL, EQUAL TO ??
CI CONDENSATE PUMP - INTEGRAL
DMK DISCONNECT MOUNTING KIT AND CONDENSATE MANAGEMENT KIT
DP DRAIN PAN
DSE DISCONNECT BY E/C
DSF DISCONNECT - FACTORY MOUNTED
DSN NON-FUSED DISCONNECT - FACTORY MOUNTED
DSR DUCTLEX SERVICE RECEPTACLE - FACTORY MOUNTED AND POWERED
DSRE DUCTLEX SERVICE RECEPTACLE BY E/C
E/E EXHAUST CHAUST FAN
GBD GRAVITY BACKDRIFT DAMPER
HG HALL GUARD
HI HOSE KIT
IC INSULATED CABINET
MOD MAGNETIC DOOR CONTROLLER
OAH OUTDOOR AIR HOOD
PL PLUG CONNECTIONS FOR ELECTRIC HEATER
PCB POWER FUSE BLOCK
RD RADIATION DAMPER
RS REFRIGERANT DETECTION SYSTEM
RMB 2" RECESSED MOUNTING BOX
SC SPEED CONTROLLER
SFS SAFETY MAINTAINED RELEASE SUPPRESSION
SG STANDARD GRILLE
SMB SURFACE MOUNTING BOX
SPD SINGLE POINT POWER ENTRY KIT
SS STAINLESS STEEL
SSDP STAINLESS STEEL DRAIN PAN
STC SMART TOUCH CONTROLLER
TEV THERMAL EXPANSION VALVE
UT USER INTERFACE TOUCHPAD
WS 3/8" SLEEVE
WSH WEATHERSHED HOOD

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REVISION DATES:		
3	ADDENDUM #3	11/18/2
4	ADDENDUM #4	11/26/2



ISSUE DATE: NOVEMBER 1, 2011
HOFFER WELKER #: 1381

MECHANICAL SCHEDULES

2 NE TUDOR RD
LEE'S SUMMIT, MISSOURI 64086

OPTIONS	
AC	ALUMINUM CONSTRUCTION
AS	AIR/LOO SWITCH
ASD	AIR SCOP DEVICE
BS	BIROSCREEN
BSK	BREAKER SEAL KIT
CAB	COMPRESSOR ACOUSTICAL BLANKET
CA	CANOPY ARCHITECT
CPE	CONDENSATE PUMP - EXTERNAL EQUIVA TO ??
CPK	CONDENSATE PUMP - INTEGRAL KIT
DMK	DOWNFLOW MOUNTING KIT AND CONDENSATE MANAGEMENT KIT
DR	DRAIN PAN
DSE	DISCONNECT BY E/C
DSF	FUSED DISCONNECT - FACTORY MOUNTED
DSN	NON-FUSED DISCONNECT - FACTORY MOUNTED
DSR	DUPLEX SERVICE RECEPTACLE - FACTORY MOUNTED AND POWERED
DSRE	DUPLEX SERVICE RECEPTACLE BY E/C
EEF	EXTERNAL EXHAUST FAN
GBD	GRAVITY BACKFIGHT DAMPER
HG	HAIL GUARD
HK	HOSE KIT
IC	INSULATED CABINET
MDC	MAGNETIC DOOR CONTROLLER
OAH	OUTER AIR HOOD
PC	POWER CONNECTIONS FOR ELECTRIC HEATER
RD	RADIATION DAMPER
RDS	REFRIGERANT DETECTION SYSTEM
RMB	REMOTE MOUNTING BOX
SC	SPEED CONTROLLER
SFS	SELF CONTAINED FIRE SUPPRESSION
SG	STANDARD GRILLE
SMB	SURFACE MOUNTING BOX
SP	SINGLE POWER ENTRY KIT
SS	STAINLESS STEEL
SSDP	STAINLESS STEEL DRAIN PAN
STC	SMART TROOP CONTROLLER
TEV	THERMAL EXHAUST VALVE
UT	UNIT SURFACE TOUCHPAD
WS	WALL SLEEVE
WSH	WEATHERSHIED HOOD

NOTES:

1.	CONTRACTOR SHALL VERIFY WITH EQUIPMENT SUPPLIER EXACT ROUTING AND SIZE OF PIPING. INSTALL PER MANUFACTURERS RECOMMENDATIONS.
2.	MOUNT ON CONCRETE PAD AND PER MANUFACTURER RECOMMENDATIONS.
3.	UNIT SIZED FOR PURE WATER, 0% GLYCOL. UNIT WILL NOT OPERATE FOR 6 MONTHS OF THE YEAR. SEE CONTROLS DRAWINGS FOR WINTERIZATION DRAINDOWN SEQUENCE
4.	SET AUTOMATIC CONTROL VALVE MINIMUM POSITION TO CALCULATED BLOWDOWN AS REQUIRED BY MANUFACTURER.

NOTES:

1. SUSPEND UNIT FROM STRUCTURE.
2. SIZE EVAPORATOR COIL BASED ON ASSOCIATED CONDENSING UNIT.
3. UNIT SHALL BE BLOW THRU CONFIGURATION.
4. FURNISH 1" FILTER RACK.
5. FURNISH UNIT WITH TERMINAL STRIP AND 7-DAY PROGRAMMABLE THERMOSTAT. SET UNIT TO MAINTAIN TEMPERATURE BETWEEN 60 AND 78 DEGREES.

NOTES:

1.	CONTRACTOR SHALL VERIFY WITH EQUIPMENT SUPPLIER EXACT ROUTING AND SIZE OF INSULATED REFRIGERANT PIPING. INSTALL PER MANUFACTURERS RECOMMENDATIONS.
2.	MOUNT ON CONCRETE PAD.

1. CONTRACTOR SHALL VERIFY WITH EQUIPMENT SUPPLIER EXACT ROUTING AND SIZE OF INSULATED REFRIGERANT PIPING. INSTALL PER MANUFACTURERS RECOMMENDATIONS.
2. COOLING COILS BASED ON NET CAPACITIES.
3. MOUNT ON CONCRETE PAD WITH NEOPRENE VIBRATION ISOLATION PAD AND PER MANUFACTUER IOM INSTRUCTIONS.

1. CONTRACTOR SHALL VERIFY WITH EQUIPMENT SUPPLIER EXACT ROUTING AND SIZE OF INSULATED REFRIGERANT PIPING. INSTALL PER MANUFACTURERS RECOMMENDATIONS.
2. PROVIDE FLOOR MOUNTED WATER SENSOR IN UNDER FLOOR AIR PLENUM. CONNECT TO BAS.
3. PROVIDE MANUFACTURER'S STANDARD FLOOR STAND FOR DOWNFLOW CONFIGURATION.

1. MAX OPERATING PRESSURE SHALL BE 125 PSI. MAX OPERATING TEMPERATURE SHALL BE 120 DEG. F.
2. PROVIDE PACKAGED SYSTEM WITH PUMPS, BASE, VALVES, GAUGES, PRESSURE TRANSDUCERS, AND SUCTION & DISCHARGE HEADERS, CONTROLS AND DRIVES.
3. PROVIDE PROTECTIVE HOUSING WITH ALIGNMENT MOUNTS AND VIBRATION MOUNTS TO MEET EFFICIENCY LEVELS.
4. PROVIDE UNIT MOUNTED INLET AND OUTLET PRESSURE SENSOR WITH DRY RUN PROTECTION AND OVER PRESSURIZATION FEATURES.
5. PROVIDE SINGLE POINT POWER WITH FACTORY-WIRED AND TESTED PUMP CONTROLLER UTILIZING OPTIMAL POWER PUMP SEQUENCING.
6. PUMPS SHALL HAVE CARTRIDGE TYPE SEALS, AND SHALL NOT REQUIRE ALIGNMENT.
7. PUMPS ARE DESIGNED FOR IN-LINE ARRANGEMENT.
8. PUMPS CONTAINS TWO, REDUNDANT 1.5 HP MOTORS. MOTORS HAVE SEPARATE VFDs AND ELECTRICAL CONNECTIONS.

NOTES:

1. EXPANSION TANK SHALL BE SUSPENDED FROM STRUCTURE ABOVE PER DETAIL.
2. HYDRONIC SYSTEM IS 100% WATER.
3. UNIT SHALL BE ASME RATED, 125 PSIG.

NOTES:

1. AIR SEPARATOR SHALL BE SUSPENDED FROM STRUCTURE ABOVE PER DETAIL.
2. FURNISH WITH INTEGRAL STAINLESS STEEL STRAINER.

1. CHECK SIZE SHOWN ON DRAWING. BRANCH DUCT SIZE SHALL BE SAME AS NECK SIZE UNLESS OTHERWISE NOTED.
2. 4-WAY THROW PATTERN UNLESS OTHERWISE SHOWN ON DRAWINGS AND LEGEND.
3. DOUBLE DEFLECTION BARS SHALL BE ADJUSTABLE. ADJUST TO DEFLECT AIR DOWN AND EVENLY TO THE SIDE.
4. FRONT BLADES PARALLEL TO LONG DIMENSION.
5. ALUMINUM CONSTRUCTION.
6. SINGLE SLOT DIFFUSER, 1.5" WIDE: PROVIDE SDB PLENUM.
7. SINGLE SLOT DIFFUSER, 1.5" WIDE: PROVIDE LIGHT SHIELD.
8. TWO SLOT DIFFUSER, 1.5" WIDE: PROVIDE SDB PLENUM.
9. PROVIDE ACOUSTICAL BOOTS FOR ALL RETURN REGISTERS WHERE SHOWN ON DRAWINGS. PROVIDE LIGHT SHIELDS FOR ALL REGISTER NOT UTILIZING ACOUSTICAL BOOTS.
10. PROVIDE BASKET AND FACE OPERATED DAMPER.
11. PERFORATED FLOOR TILE SHALL INTEGRATE INTO MANUFACTURE'S FLOOR PLENUM SYSTEM. TILE SHALL BE CAPABLE OF WALKING ON.

1. THE EXHAUST FAN SHALL RUN CONTINUOUSLY, AND THE FAN SPEED SHALL BE CONTROLLED BASED OFF OF THE SUPPLY FAN SPEED.
2. IF THE EXHAUST FAN FAILS TO PROVE STATUS FOR 30 SECONDS (ADJ.), THE FAN SHALL BE COMMANDED OFF, ALL HEATING AND COOLING SHALL BE DISABLED, AND AN ALARM SHALL ANNUNCIATE AT THE BAS. A MANUAL RESET SHALL BE REQUIRED TO RESTART THE FAN. A MANUAL RESET OF THE HIGH STATIC PRESSURE CUT-OFF SWITCH SHALL BE REQUIRED TO RESTART THE FAN. SUPPLY AND EXHAUST FANS ARE INTERLOCKED VIA SOFTWARE, A FAILURE OF EITHER SHALL DISABLE BOTH.

1. THE UNIT SHALL SHUT DOWN IN RESPONSE TO A SIGNAL FROM THE SMOKE DETECTORS INDICATING THE PRESENCE OF SMOKE. THE SMOKE DETECTORS SHALL BE INTERLOCKED TO THE UNIT THROUGH THE DRY CONTACTS OF THE SMOKE DETECTOR. A MANUAL RESET OF THE SMOKE DETECTORS SHALL BE REQUIRED TO RESTART THE UNIT.



1. THE BAS SHALL ANNUNCIATE AN ALARM WHEN THE HIGH LEVEL SENSOR IS REACHED.

1. THE BAS SHALL MONITOR THE FOLLOWING:

- A. UPS AVAILABLE
- B. UPS CHARGE
- C. UPS IN TEST MODE
- D. FAILURE OF COMMUNICATION LINK

1 CONTROLS LEGEND
NOT TO SCALE

3 MISC. EQUIPMENT CONTROL DIAGRAM

NOT TO SCALE

1 CONTROLS LEGEND
NOT TO SCALE

2 NE TUDOR RD
LEE'S SUMMIT, MISSOURI 64086

This image shows a single sheet of white paper with horizontal blue or grey ruling lines, typical of notebook paper. The lines are evenly spaced and run across the width of the page. There is no handwriting or other markings on the paper.



DEFER WELKER #: 1381

CONTROLS



LEE'S SUMMIT, MISSOURI 64086

This is a blank sheet of white paper with horizontal blue or grey ruling lines, typical of notebook paper. The lines are evenly spaced and run across the width of the page. There are no margins, text, or other markings on the paper.

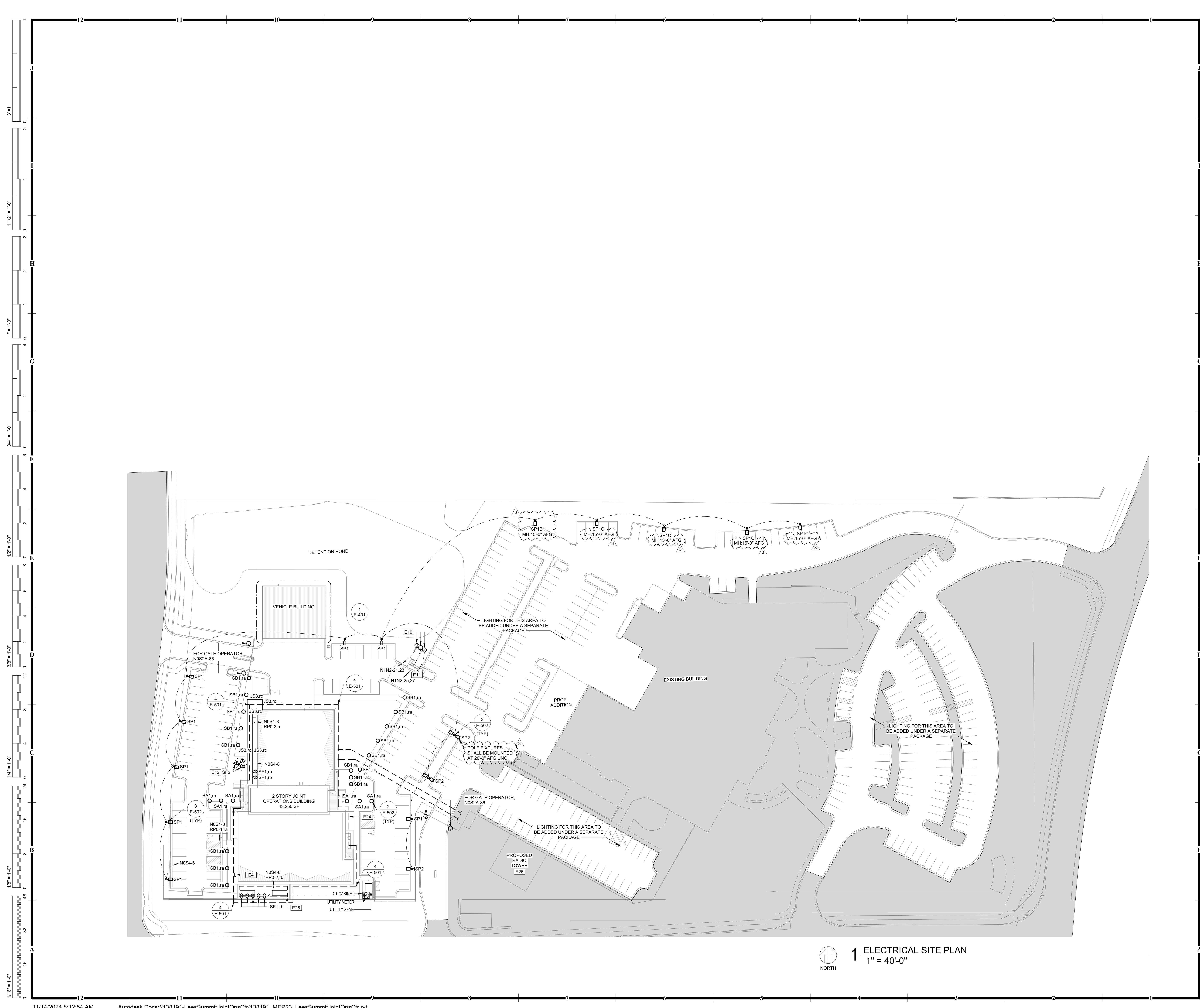


OEFER WELKER #: 1381

1 HOT WATER RISER DIAGRAM

NOT TO SCALE





- GENERAL NOTES:**
- REFER TO SHEET EG001 FOR GENERAL ELECTRICAL NOTES.
 - ALL EXTERIOR LIGHTING SHALL COMPLY WITH THE STANDARDS UNDER ARTICLE 8 OF THE CITY'S UNIFIED DEVELOPMENT ORDINANCE (UDO). MORE SPECIFICALLY, COMPLIANCE WITH THE LIGHTING STANDARDS OF UDO SECTIONS 8.220, 8.230, 8.250, 8.260 AND 8.270 SHALL TAKE PLACE AT THE TIME OF FINAL DEVELOPMENT PLAN.
- ELECTRICAL PLAN NOTES:**
- ☐ E4 TEMPORARY GENERATOR QUICK CONNECT PANEL. REFER TO ONE-LINE DIAGRAM AND SPECIFICATIONS FOR ADDITIONAL INFORMATION.
- ☐ E10 PROVIDE POWER AND DATA TO FUEL PUMP. CONDUIT ABOVE GRADE SHALL BE RIGID. ALL FITTINGS AND JUNCTION BOXES SHALL BE EXPLOSION PROOF AND SEALED PER CODE. COORDINATE EXACT LOCATION AND REQUIREMENTS WITH OWNER.
- ☐ E11 PROVIDE 1-1/2" C. FROM SERVER (146) TO FUEL PUMP.
- ☐ E12 PROVIDE DEDICATED LINE VOLTAGE PHOTOCELL FOR FLAG LIGHTING. INSTALL PHOTOCELL IN AN INCONSPICUOUS LOCATION.
- ☐ E24 COORDINATE FINAL LOCATION WITH ARCHITECT PRIOR TO INSTALLATION. BUILDING GROUND RING. REFER TO 2/E-641 AND SPECIFICATIONS FOR ADDITIONAL INFORMATION.
- ☐ E25 EQUIPMENT ENCLOSURE GROUND RING. BOND ALL EQUIPMENT IN THE EQUIPMENT ENCLOSURE TO THE GROUND RING WITH #2 BONDING CONDUCTOR. REFER TO 2/E-641 AND SPECIFICATIONS FOR ADDITIONAL INFORMATION.
- ☐ E26 TWO (2) CONNECTIONS ARE REQUIRED TO BOND THE RADIO TOWER GROUNDING SYSTEM TO THE BUILDING GROUNDING SYSTEM. PROVIDE (2) 4" CONDUITS UNDER ROADWAY FOR GROUNDING CONDUCTORS. BONDING CONDUCTORS SHALL BE PROVIDED BY RADIO TOWER INSTALLER.

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LEE'S SUMMIT JOINT OPERATIONS FACILITY
2 NE TUDOR RD
LEE'S SUMMIT, MISSOURI 64086

REVISION DATES:

3	ADDENDUM #3	11/18/2024

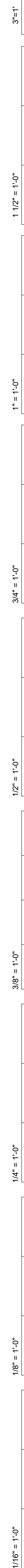
PROFESSIONAL SEAL

ES101
ISSUE DATE: NOVEMBER 1, 2024
HOEFER WELKER #: 138191

PACKAGE 2: CONSTRUCTION SET

1 ELECTRICAL SITE PLAN
1" = 40'-0"

ELECTRICAL SITE PLAN



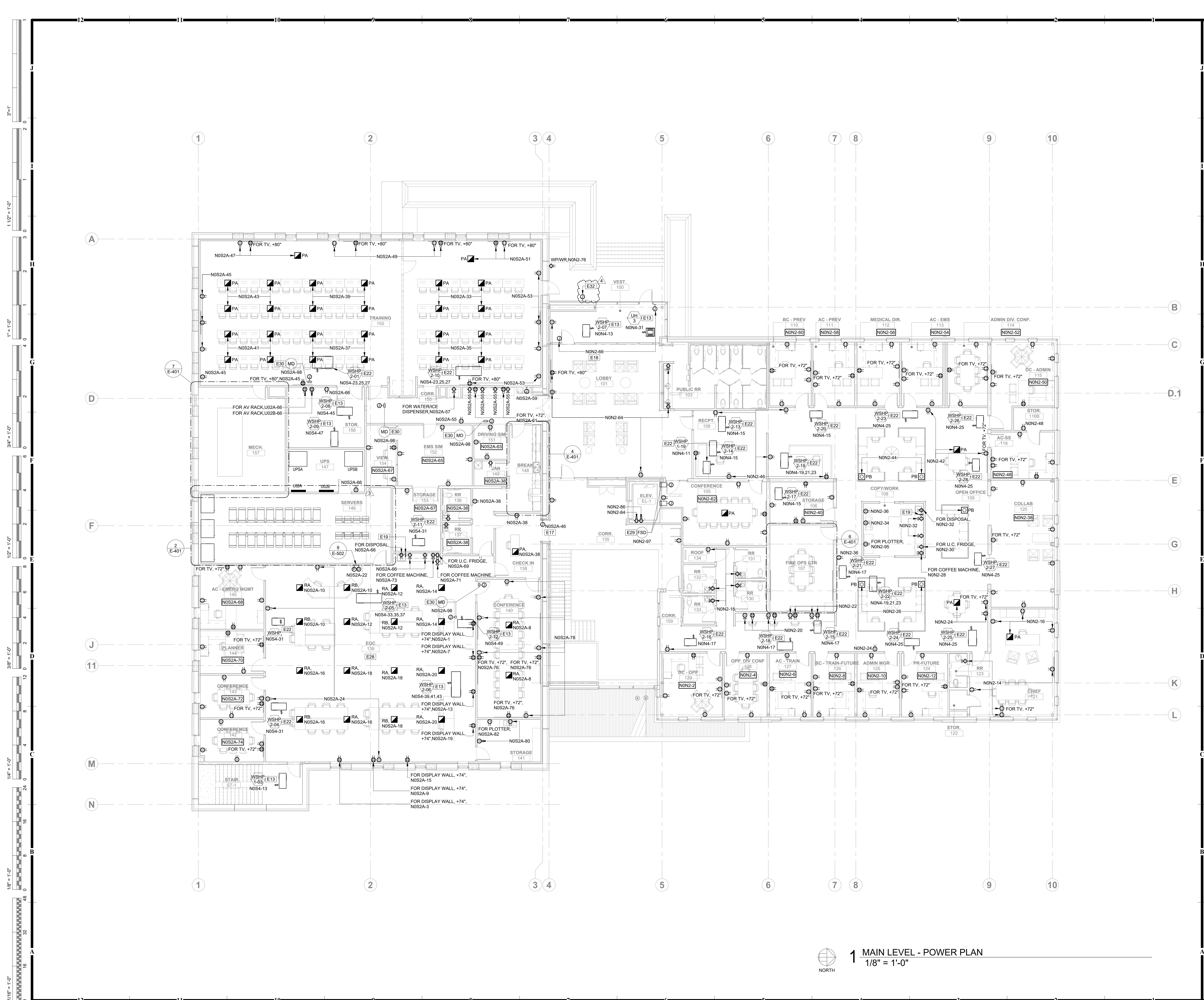
LEE'S SUMMIT JOINT OPERATIONS FACILITY
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LEE'S SUMMIT, MISSOURI 64086

PACKAGE 2: CONSTRUCTION SET

[illegible]

1 LOWER LEVEL - POWER PLAN
1/8" = 1'-0"

LOWER LEVEL - POWER PLAN



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REVISION DATES:
3 ADDENDUM #3 11/18/2024
4 ADDENDUM #4 11/26/2024



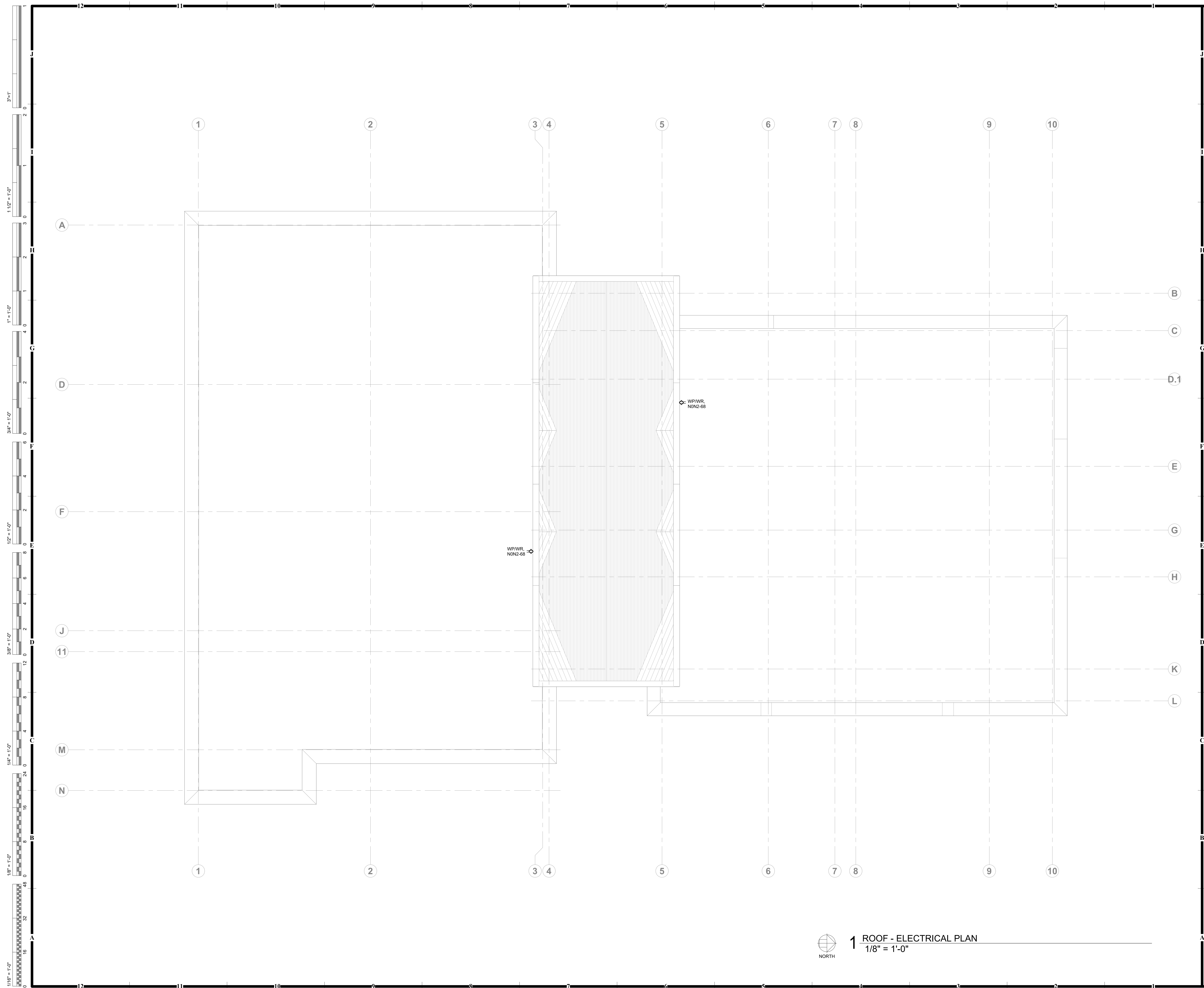
PROFESSIONAL SEAL

E-101
ISSUE DATE: NOVEMBER 1, 2024
HOEFER WELKER #: 138191

MAIN LEVEL - POWER PLAN



1 MAIN LEVEL - POWER PLAN
1/8" = 1'-0"



GENERAL NOTES:

1. REFER TO SHEET EG001 FOR GENERAL ELECTRICAL NOTES.

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REVISION DATES:

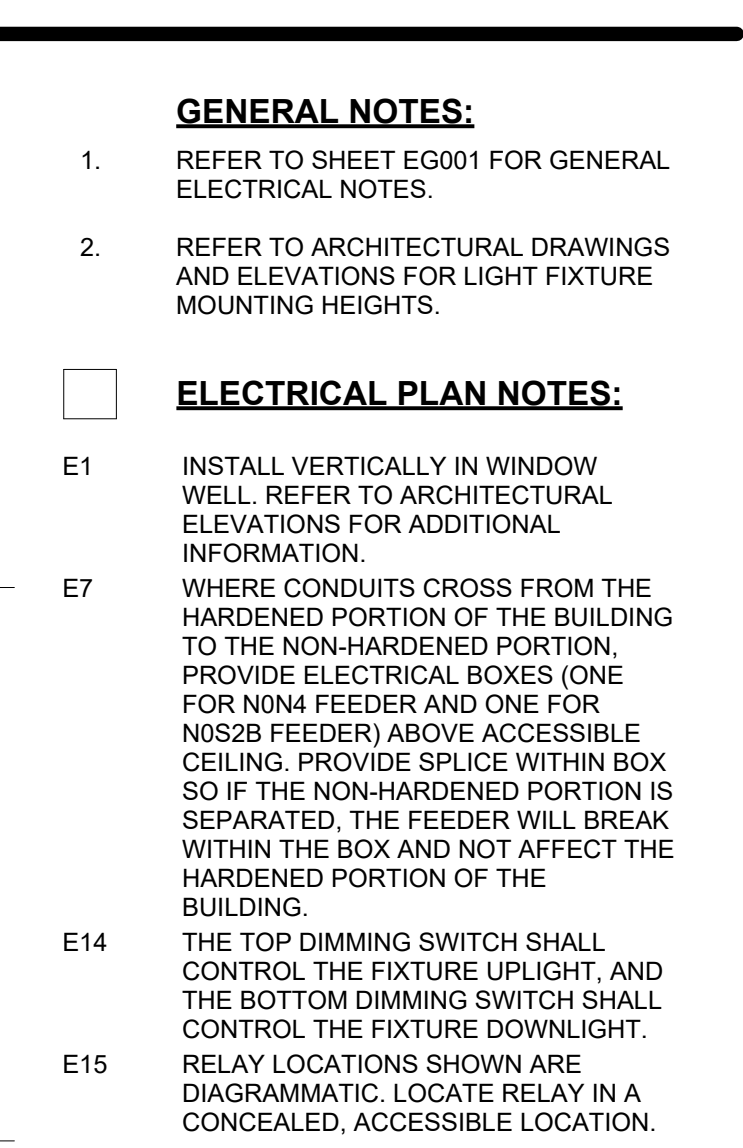


PROFESSIONAL SEAL

E-102

ISSUE DATE: NOVEMBER 1, 2024
HOEFER WELKER #: 138191

ROOF - ELECTRICAL PLAN

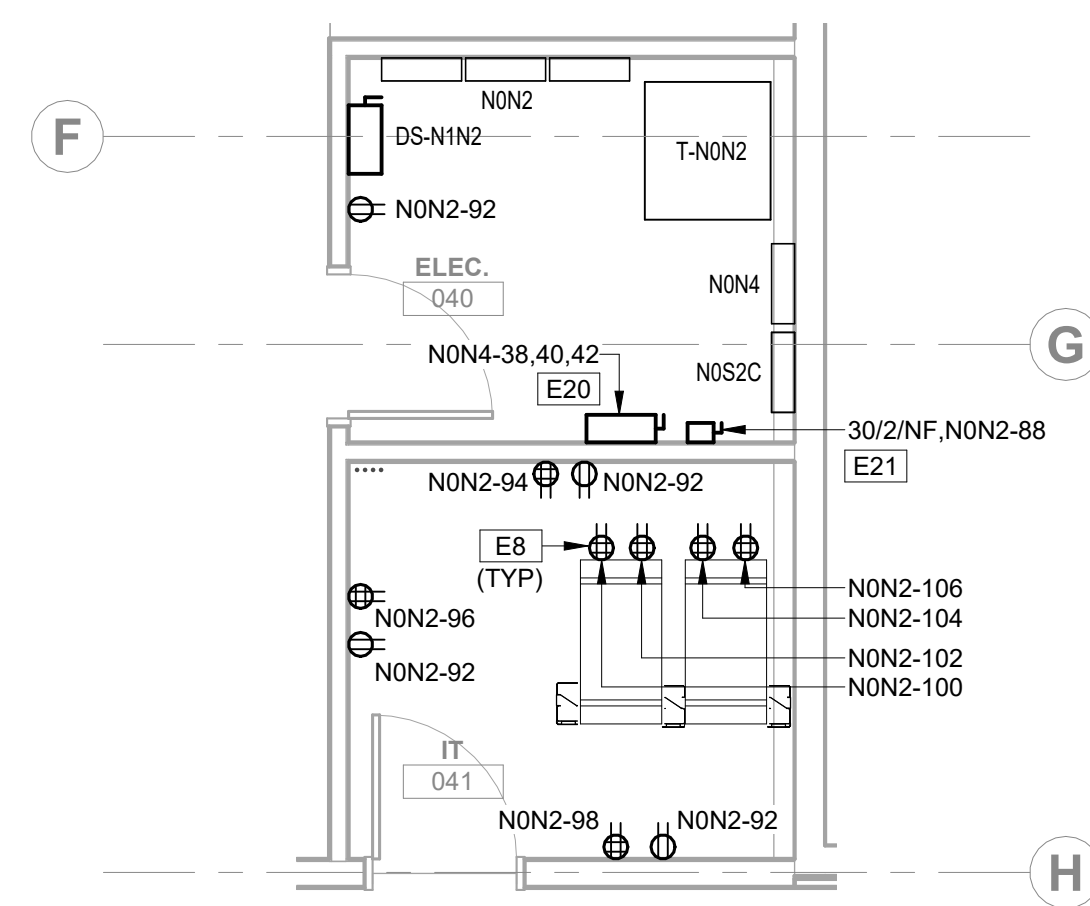


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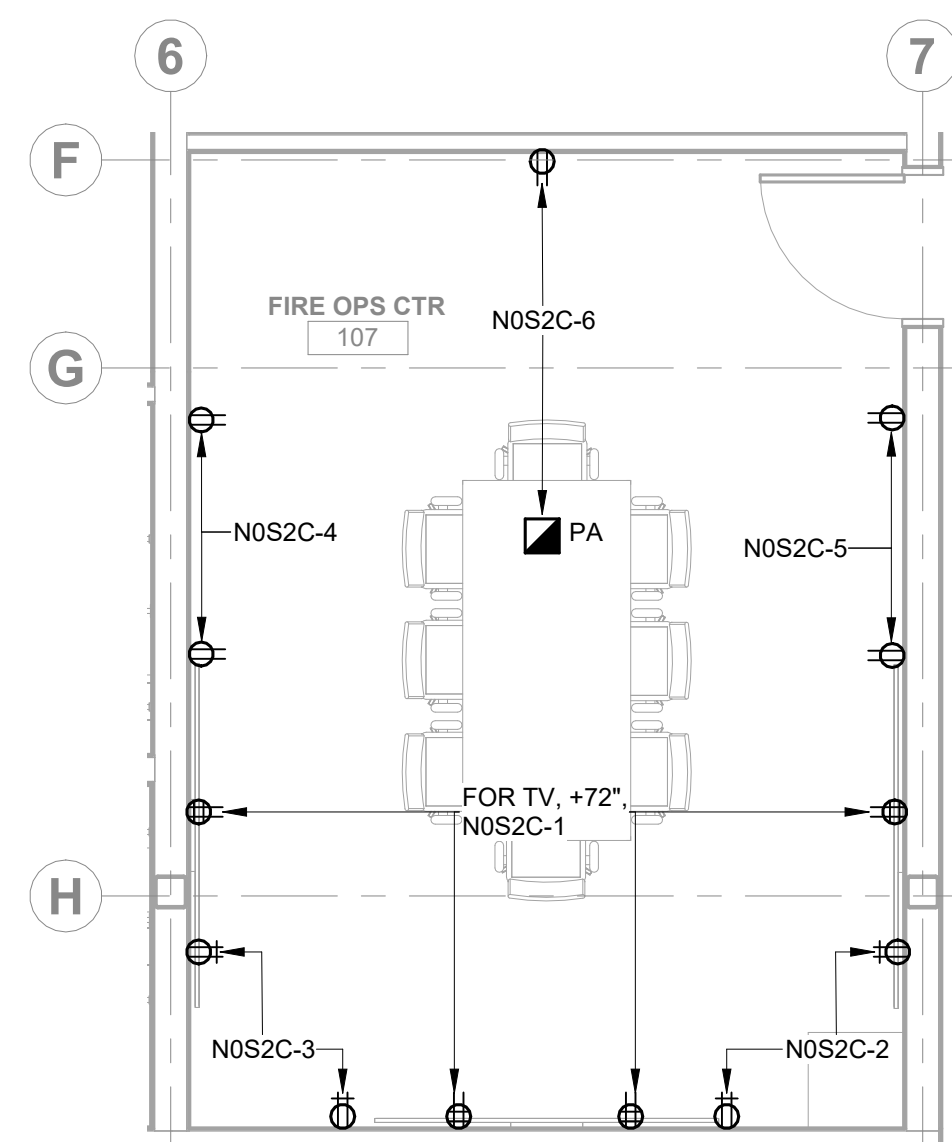
PACKAGE 2: CONSTRUCTION SET

[illegible]

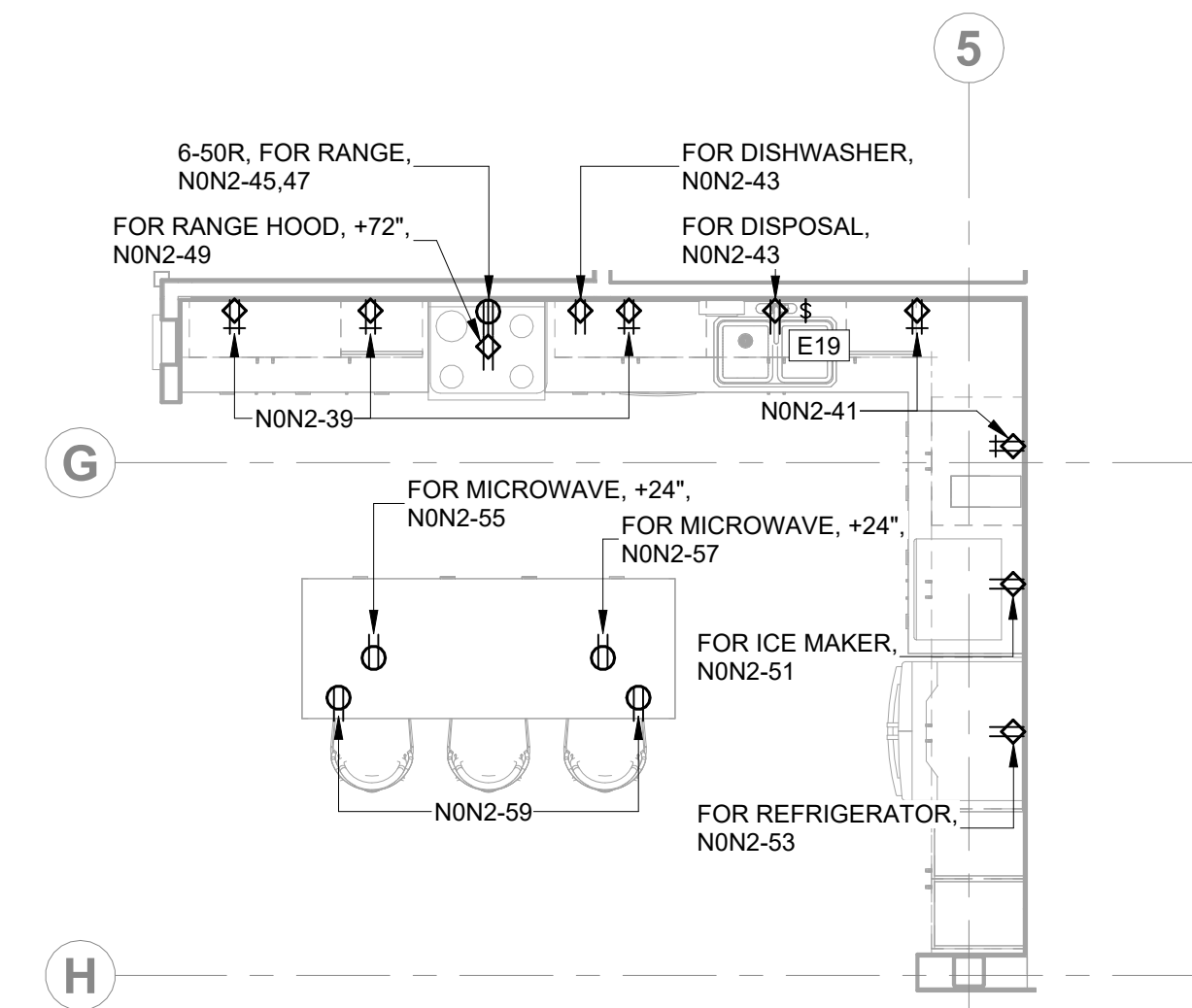
LOWER LEVEL - LIGHTING PLAN



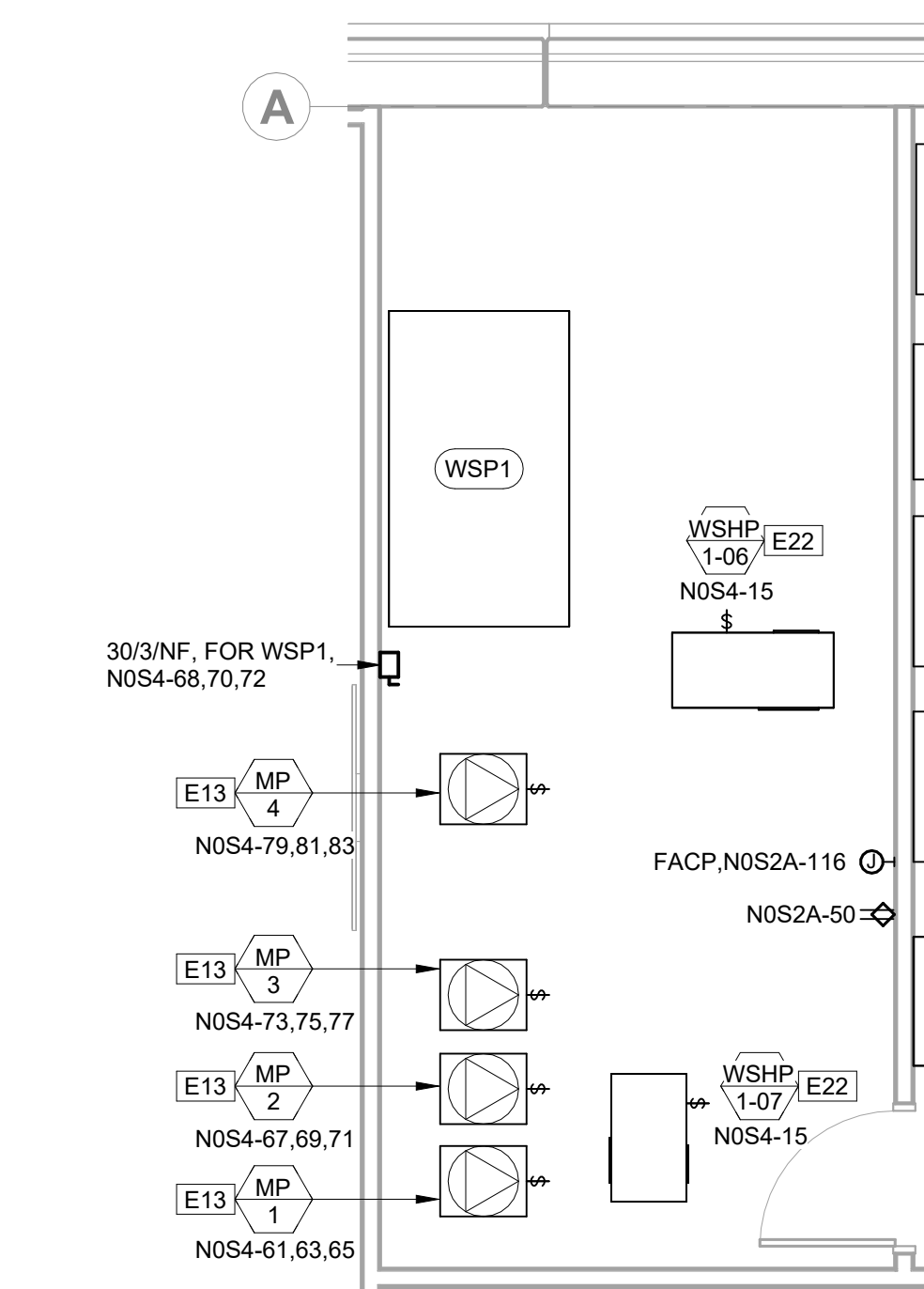
 9 ENLARGED POWER PLAN - ELEC (040) / IT (041)
1/4" = 1'-0"



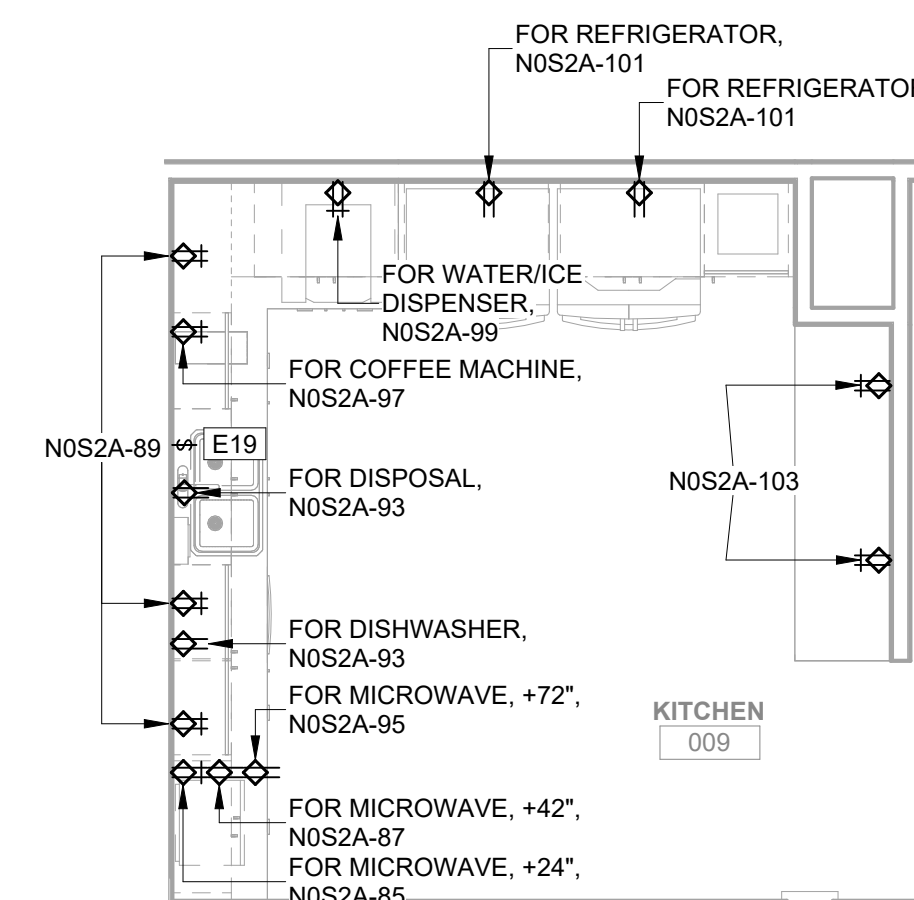
6 ENLARGED POWER PLAN - FIRE OPS CTR
1/4" = 1'-0"



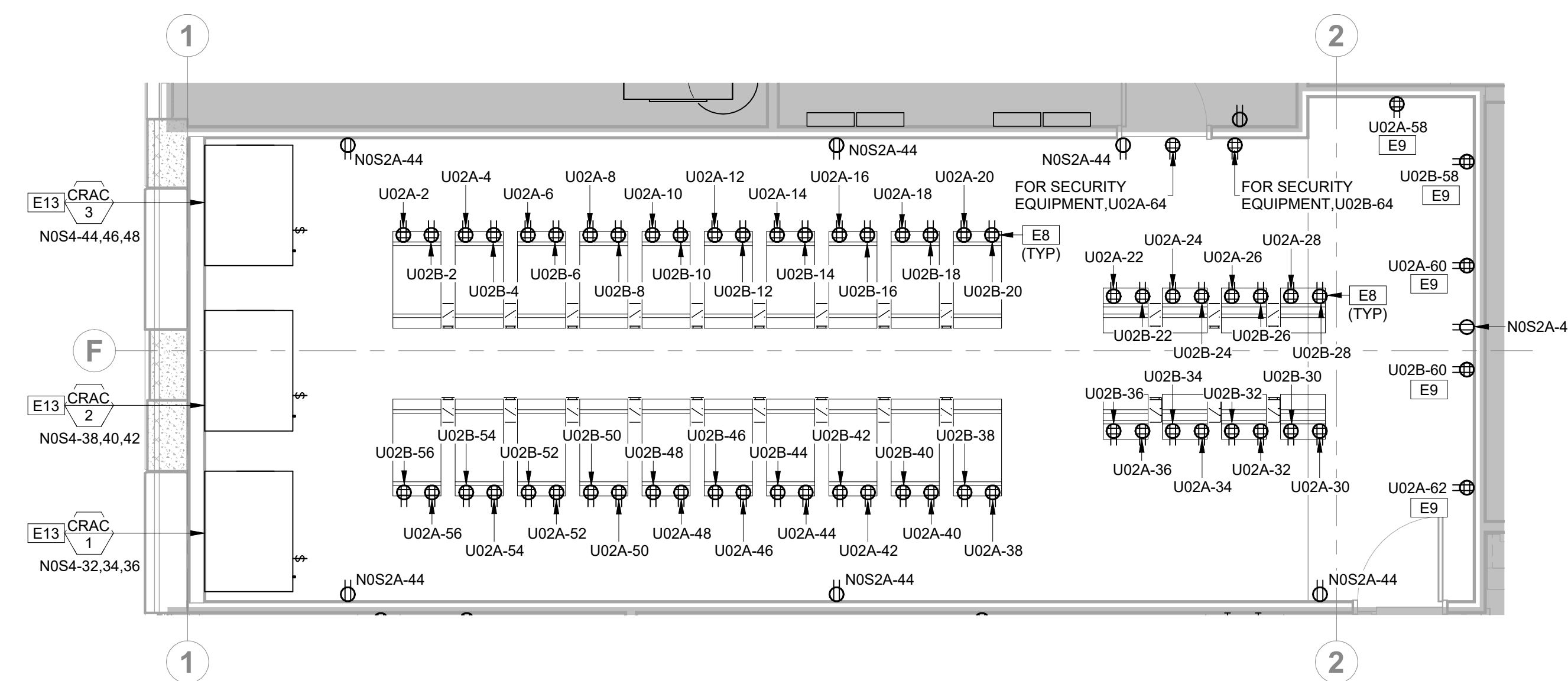
 3 ENLARGED POWER PLAN - BREAKROOM (002)
1/4" = 1'-0"



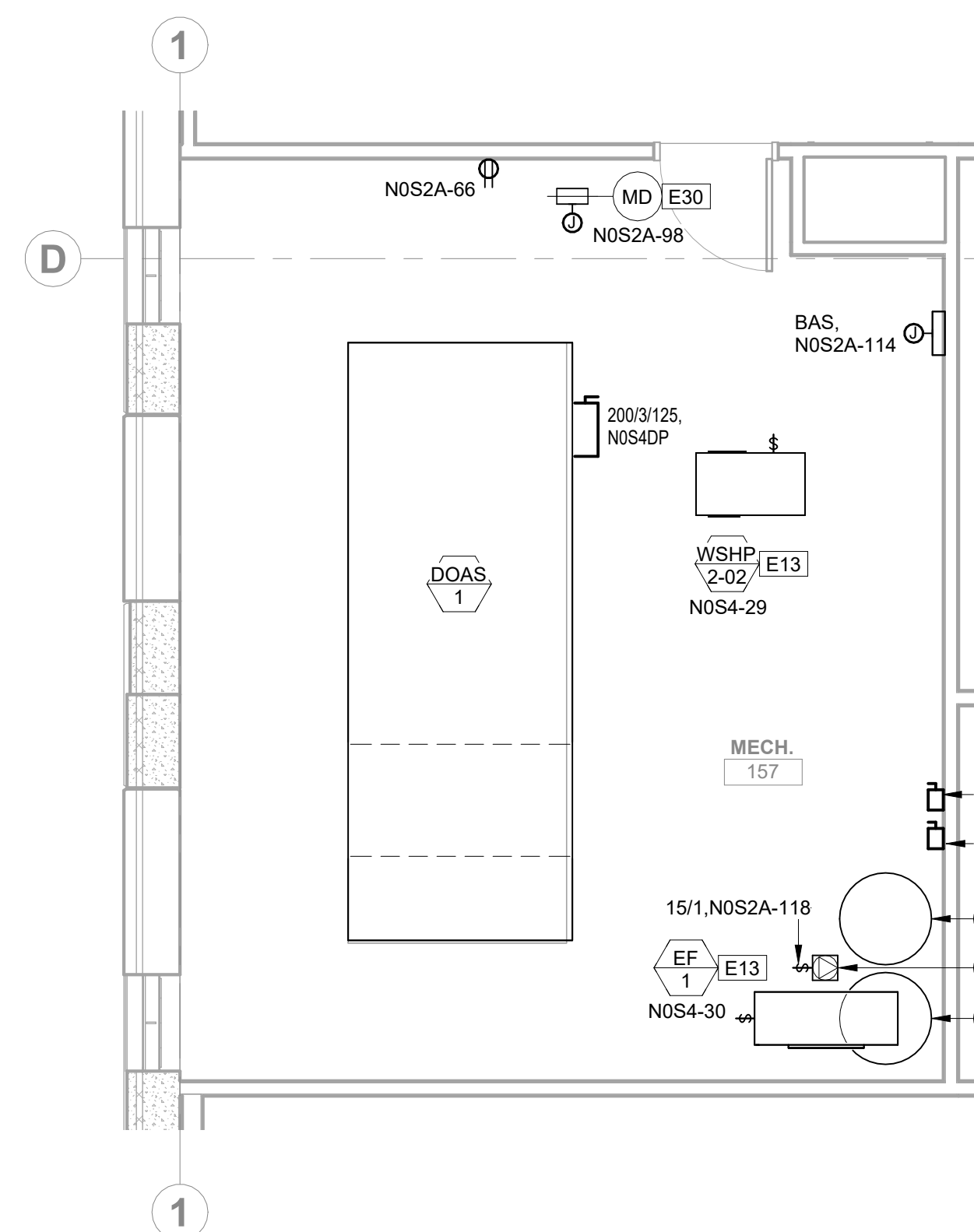
8 ENLARGED POWER PLAN - WATER 020
1/4" = 1'-0"



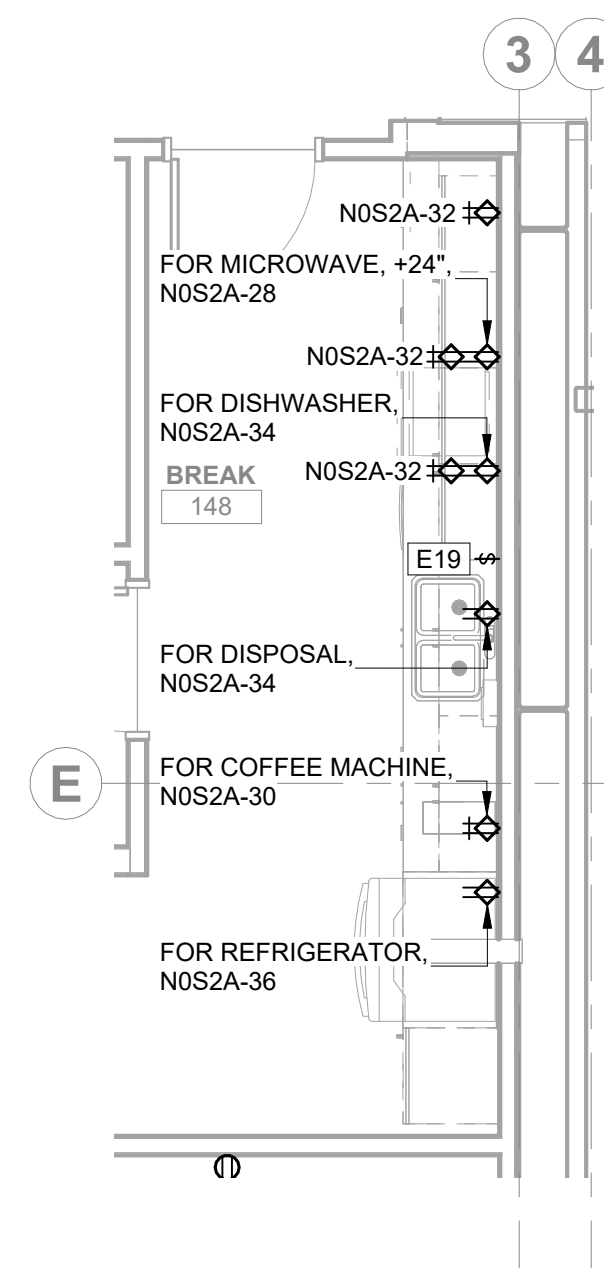
 **5** ENLARGED POWER PLAN - KITCHEN (009)
1/4" = 1'-0"



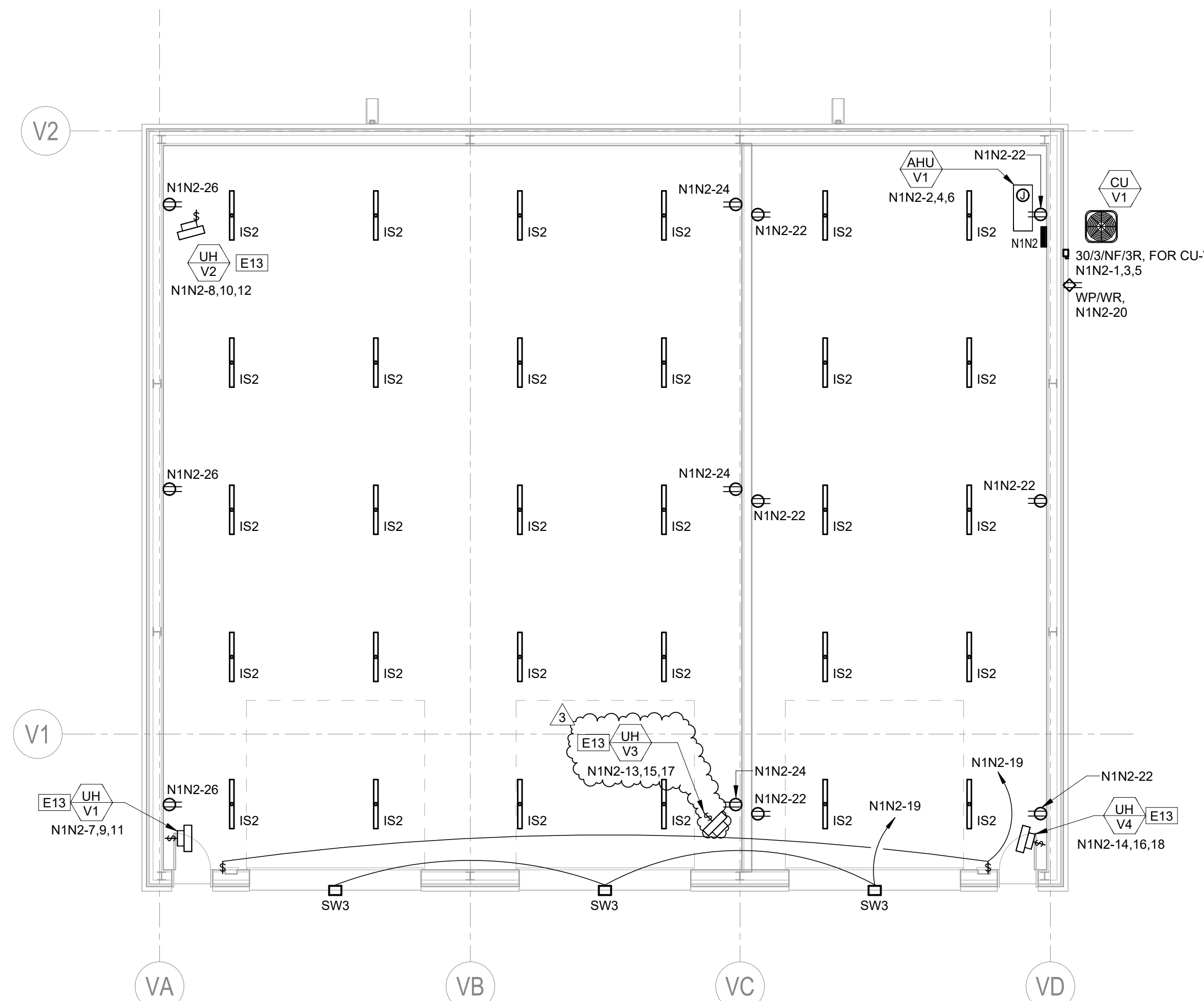
 **2** ENLARGED POWER PLAN - SERVERS (146)
1/4" = 1'-0"



 **7** ENLARGED POWER PLAN - MECH (157)
1/4" = 1'-0"

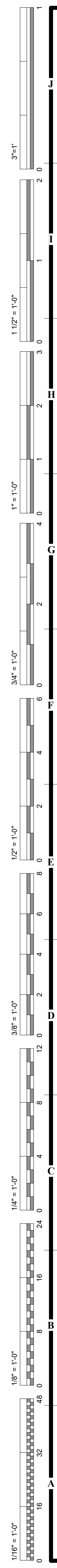


 **4** ENLARGED POWER PLAN - BREAK (148)
1/4" = 1'-0"

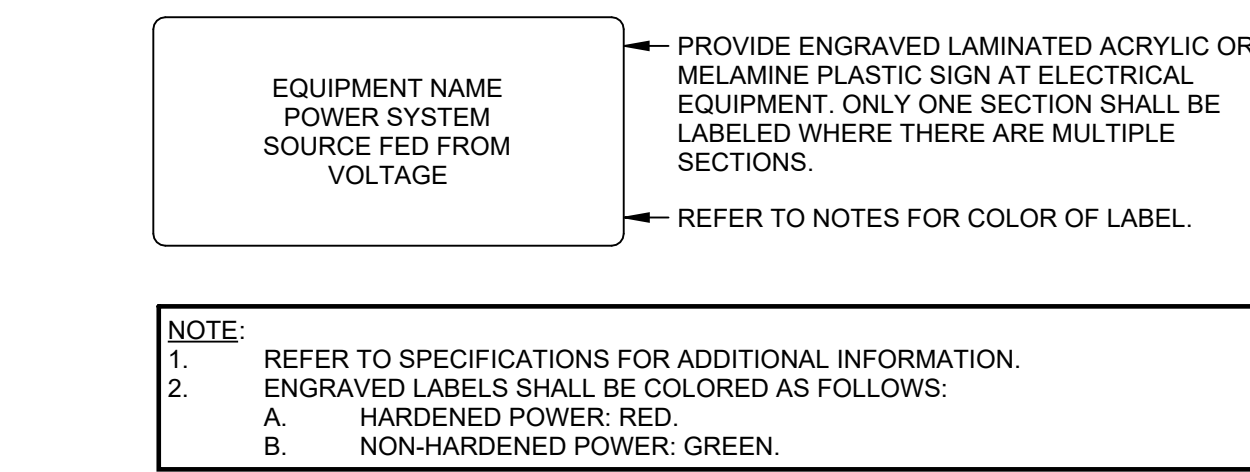


 1 ELECTRICAL PLAN - VEHICLE BUILDING
1/8" = 1'-0"

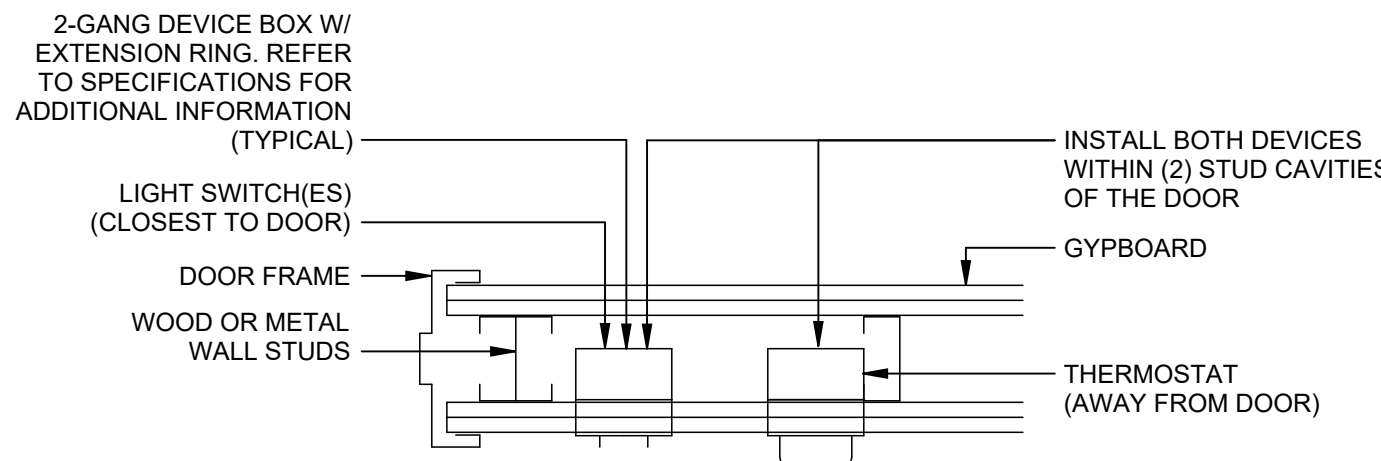
- GENERAL NOTES:**
1. REFER TO SHEET EG001 FOR GENERAL ELECTRICAL NOTES.
- ELECTRICAL PLAN NOTES:**
- E8. INSTALL RECEPTACLE ON LADDER RACK ABOVE CABINET TRAC.
- E9. COORDINATE EXACT LOCATION AND REQUIREMENTS WITH DIVISION 27.
- E13. RECEPTACLE IF WALL MOUNTED IT EQUIPMENT. COORDINATE EXACT LOCATION AND REQUIREMENTS WITH DIVISION 27 PRIOR TO ROUGH-IN.
- E19. PROVIDE POWER TO DIVISION 23 EQUIPMENT WITH FACED AND MOUNTED DISCONNECT. COORDINATE EXACT LOCATION AND REQUIREMENTS WITH DIVISION 23.
- E20. INSTALL COUNTER TOP AIR SWITCH (FURNISHED BY DIVISION 23) TO GARBAGE DISPOSAL.
- E21. PROVIDE SHUNT TRIP DISCONNECT AND FINAL CONNECTION FOR MAIN DISCONNECT DISCONNECTED. CONTRACTOR SHALL HAVE AUXILIARY CLOSET THAT IS NORMALLY CLOSED WHEN POWER IS ON AND NORMALLY OPEN WHEN POWER IS OFF. COORDINATE WITH FIRE ALARM CONTRACTOR. BASIS OF DESIGN IS KONE 300 SERIES.
- E22. COORDINATE FINAL DISCONNECT RATING AND LOCATION WITH ELEVATOR MANUFACTURER SUBMITTALS.
- E23. PROVIDE DISCONNECT AND FINAL CONNECTION FOR ELEVATOR CABIN. BASIS OF DESIGN IS KONE 300 SERIES. COORDINATE FINAL DISCONNECT RATING AND LOCATION WITH ELEVATOR MANUFACTURER SUBMITTALS.
- E24. PROVIDE POWER TO DIVISION 23 EQUIPMENT WITH FACED AND MOUNTED DISCONNECT AND INLINE FUSE BLOCK. COORDINATE EXACT LOCATION AND REQUIREMENTS WITH DIVISION 23.
- E25. PROVIDE POWER TO MOTORIZED DAMPER. COORDINATE EXACT LOCATION AND REQUIREMENTS WITH DIVISION 23.



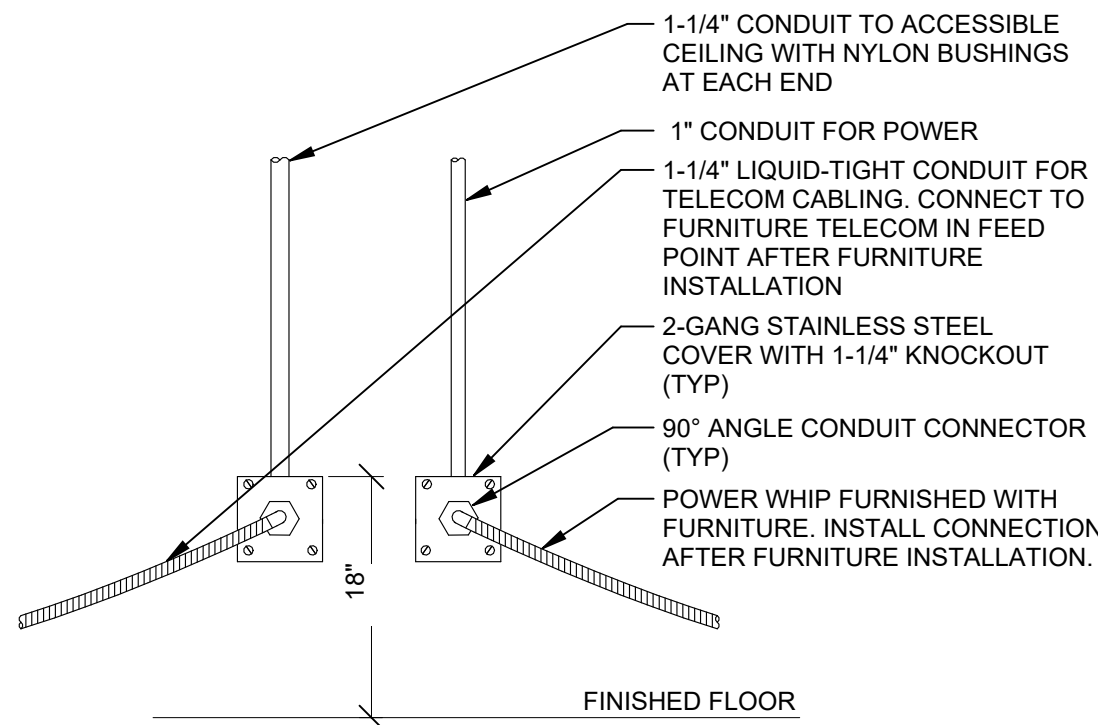
7 ELECTRICAL EQUIPMENT IDENTIFICATION DETAIL
NOT TO SCALE



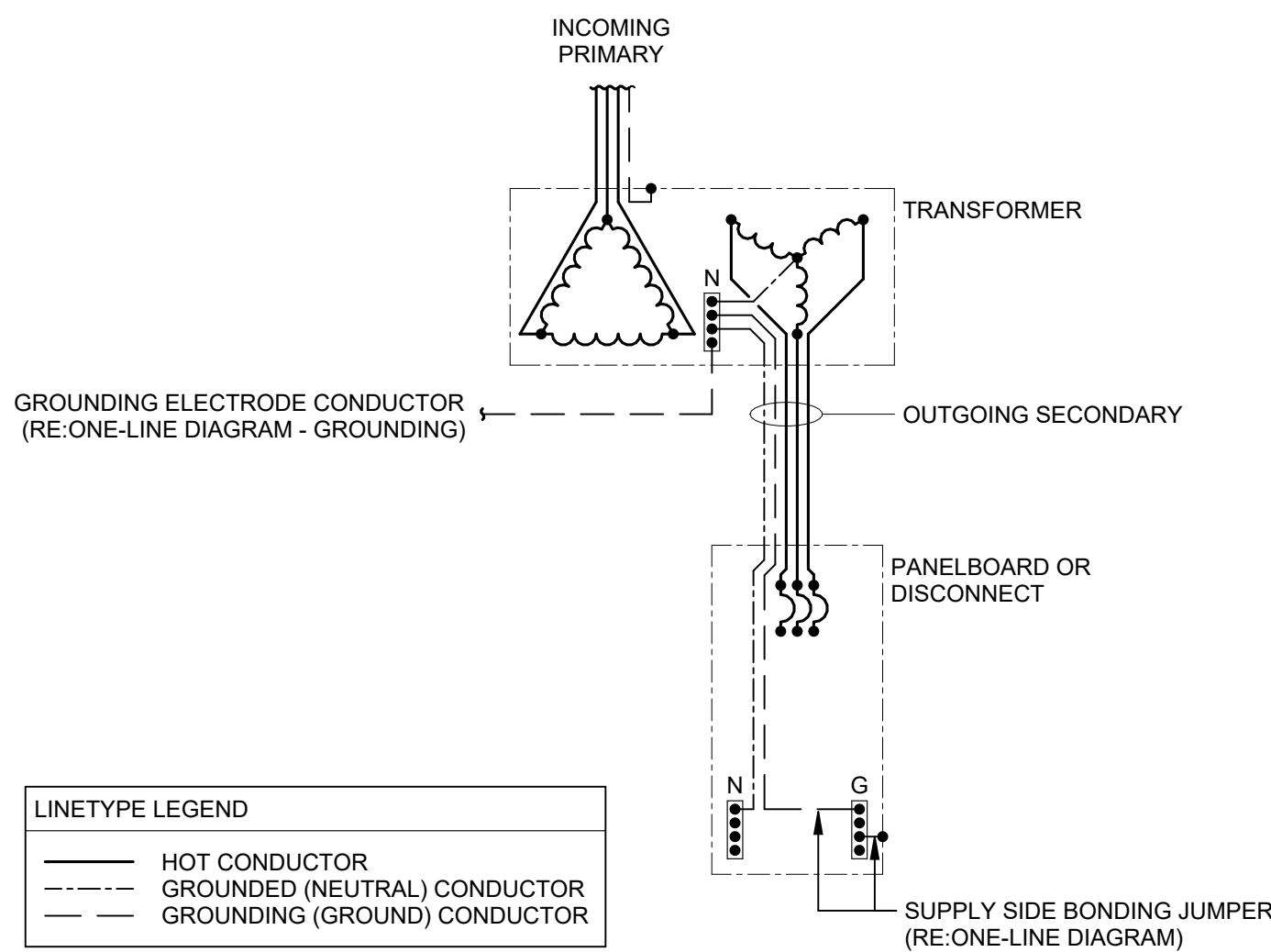
8 ROOM THERMOSTAT/LIGHT SWITCH DETAIL
NOT TO SCALE



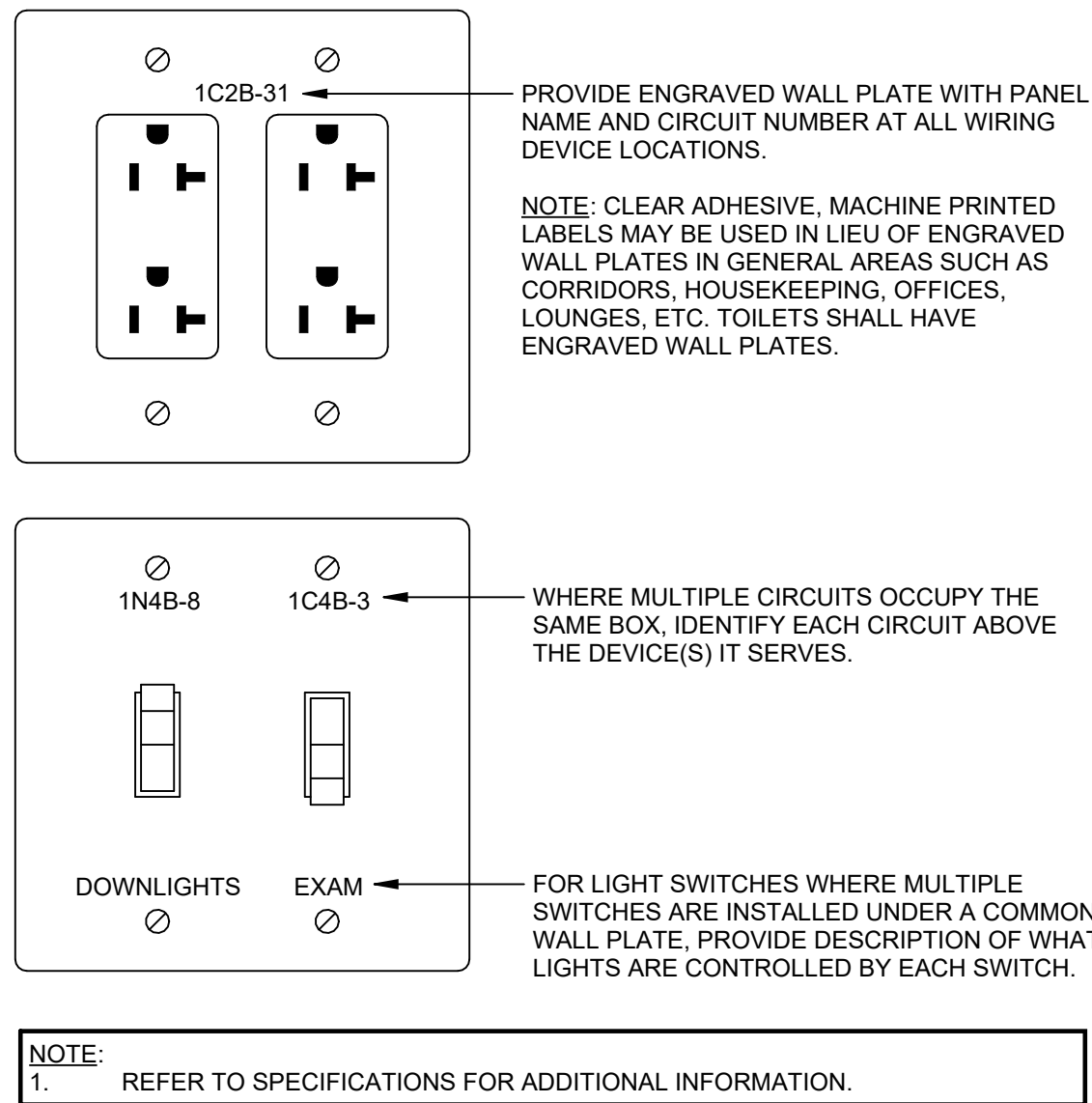
9 WALL OUTLET DETAIL FOR ELECTRIFIED PARTITION
NOT TO SCALE



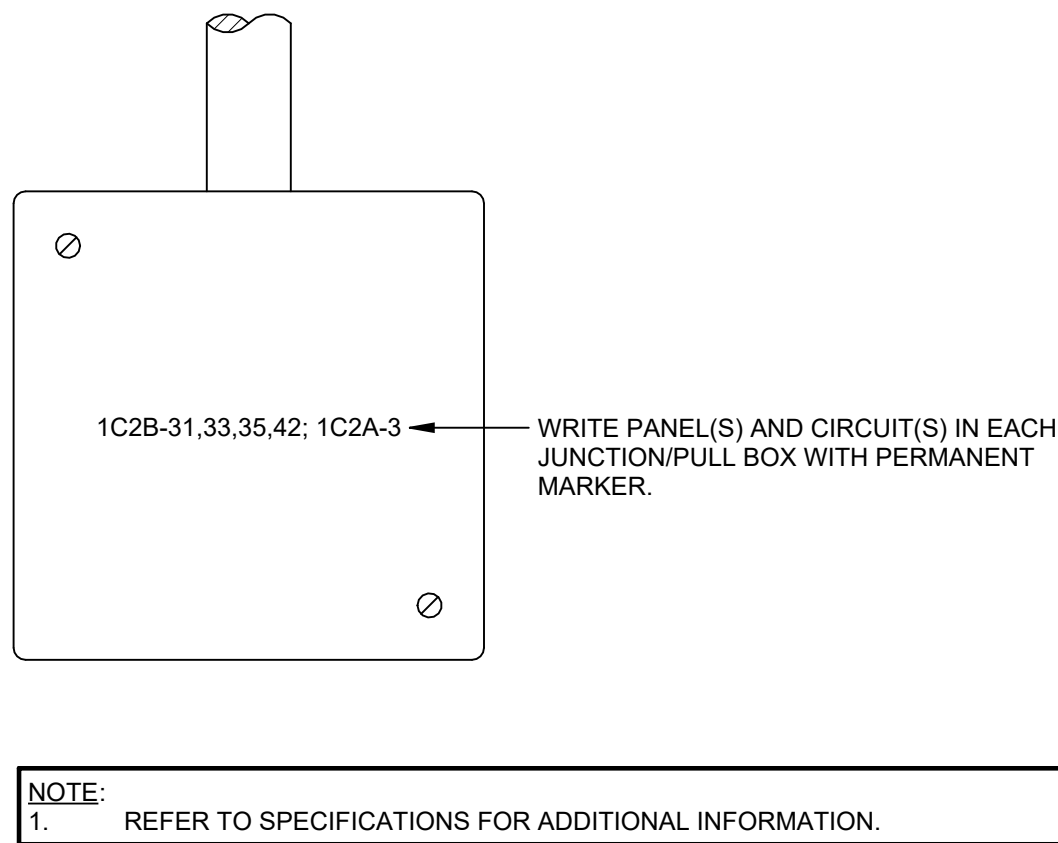
4 TRANSFORMER GROUNDING DETAIL
NOT TO SCALE



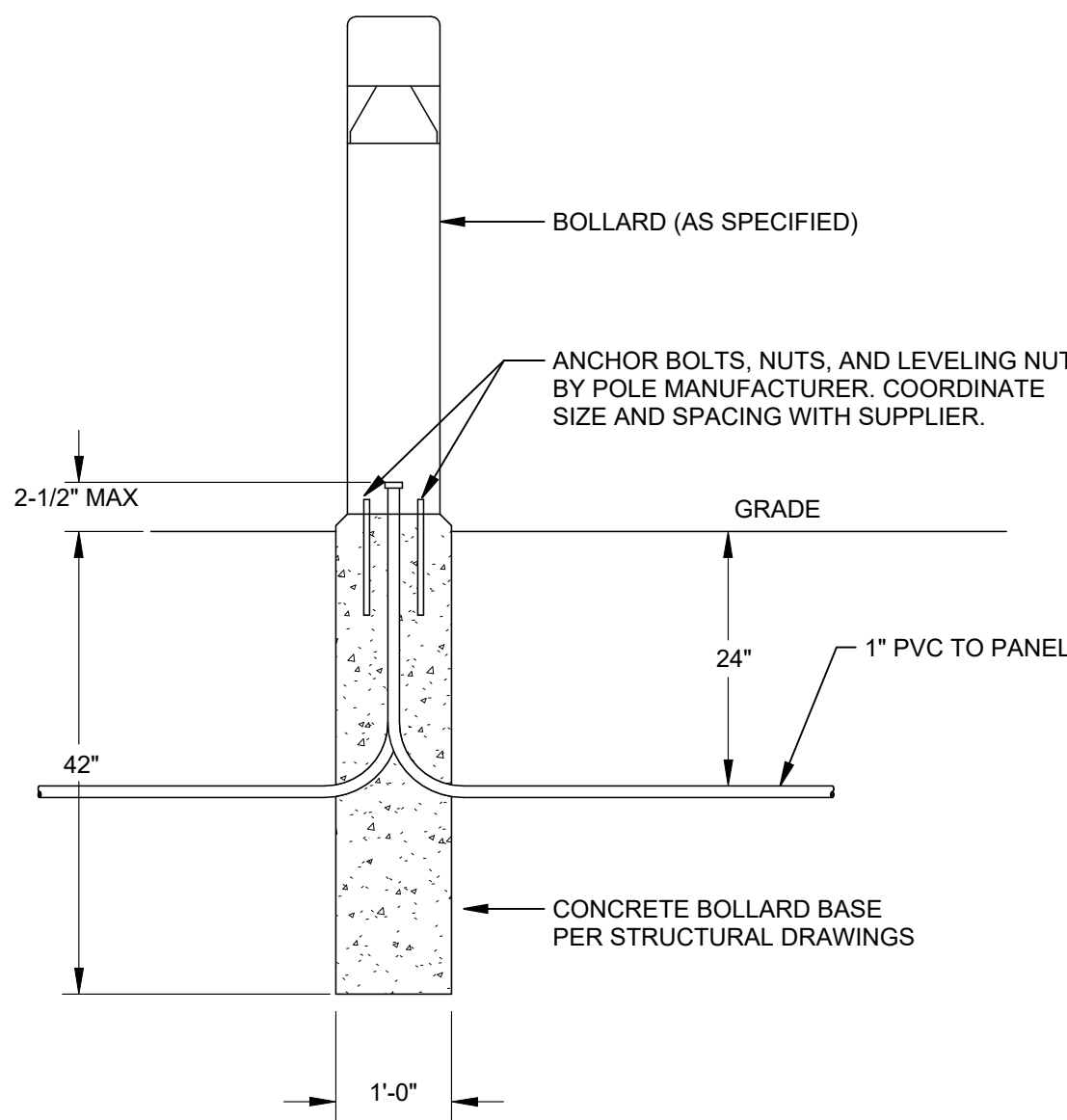
5 WIRING DEVICE IDENTIFICATION DETAIL
NOT TO SCALE



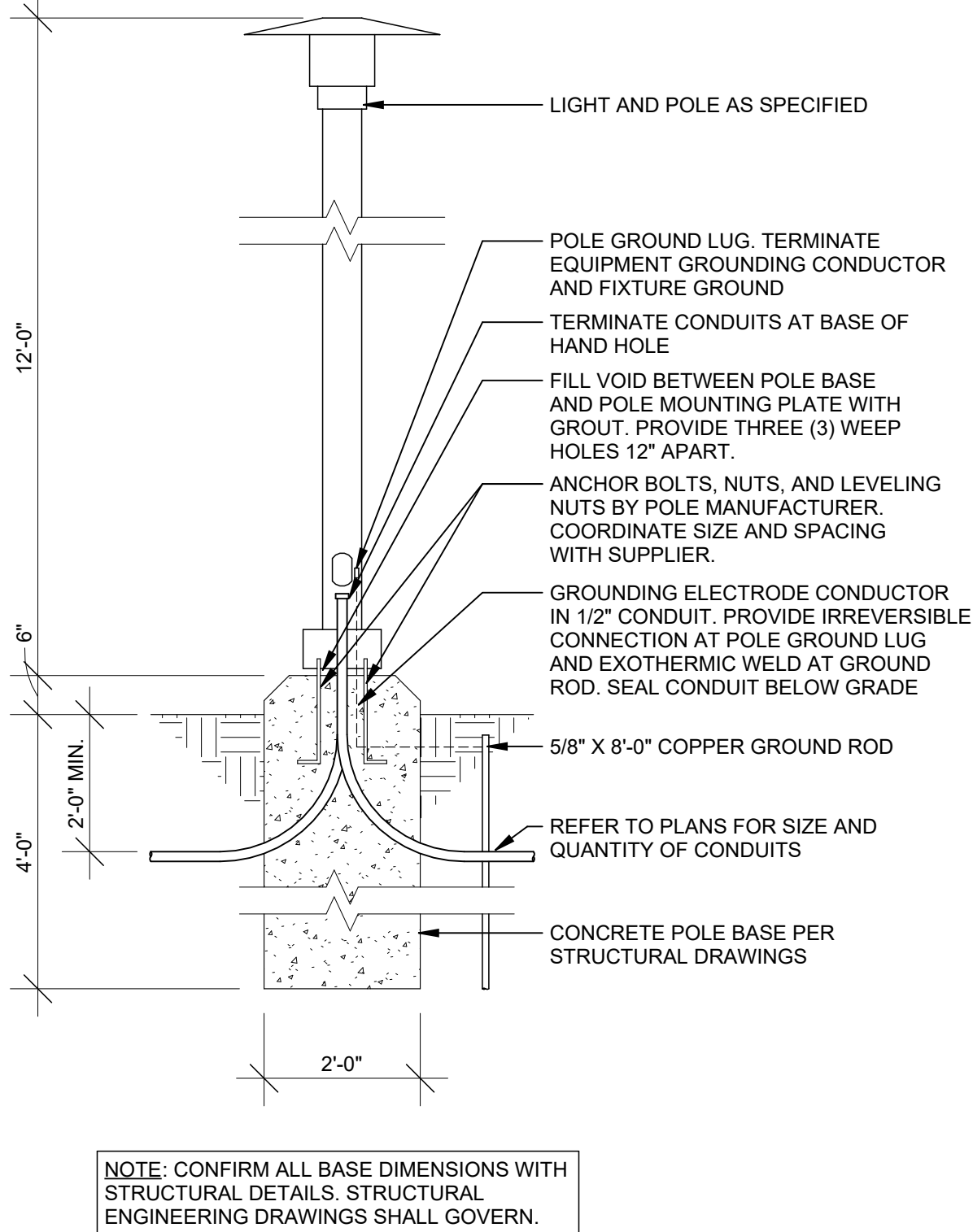
6 ELECTRICAL RACEWAY IDENTIFICATION DETAIL
NOT TO SCALE



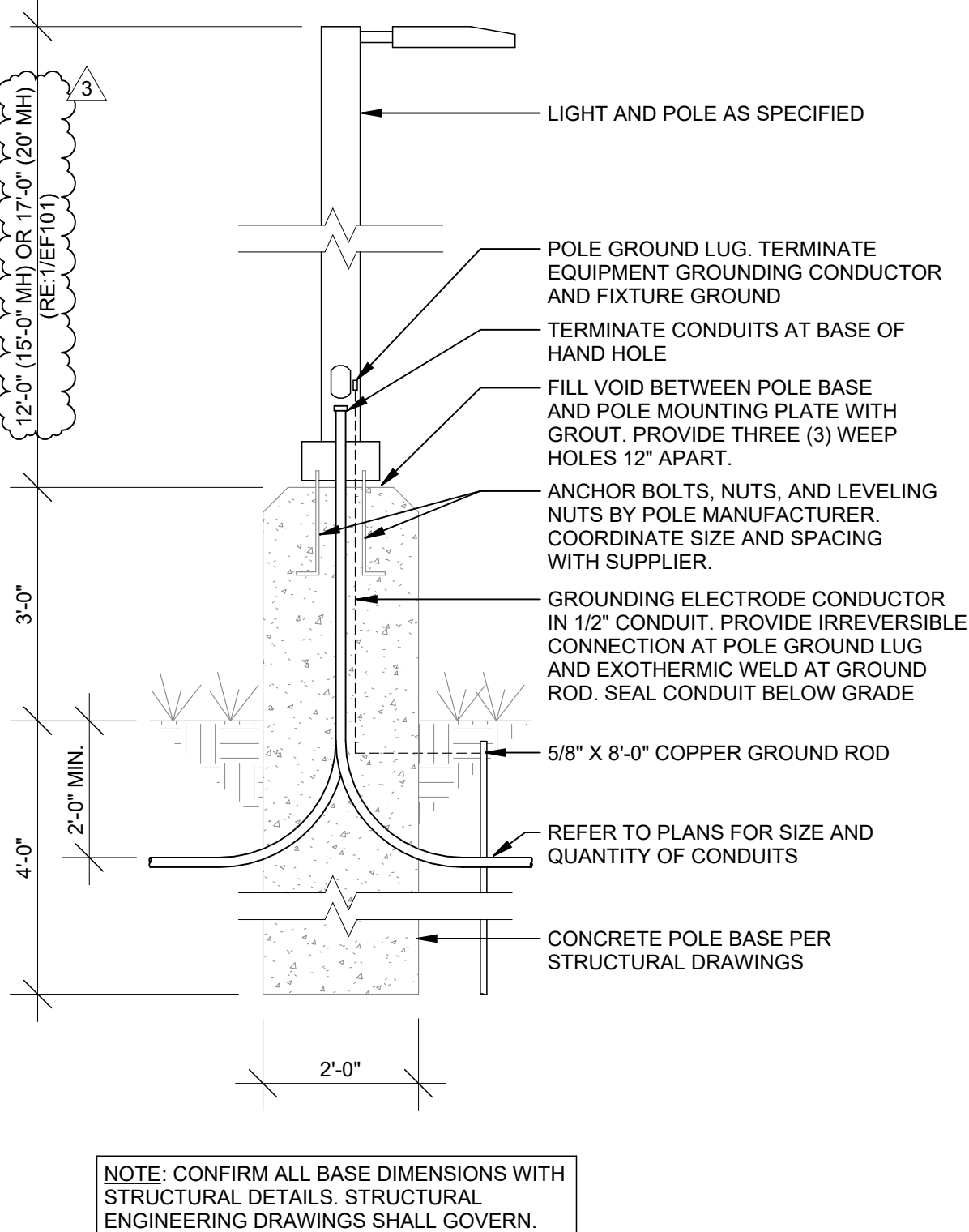
1 BOLLARD INSTALLATION DETAIL
NOT TO SCALE



2 POLE BASE DETAIL - SHORT BASE
NOT TO SCALE



3 POLE BASE DETAIL - TALL BASE
NOT TO SCALE



PANELBOARD: N0S4

BUS AMPS: 600 A
MAIN SIZE/TYPE: MLO
VOLT/SPHASE: 208Y/277 V, 3PH, 4W
SUPPLIED BY: N0S4DP

AIC RATING: 22,000 AIC
FAULT CURRENT: 20,071 A
CUM. VOLT. DROP: 0.94%
MOUNTING: SURFACE
LOCATION: ELEC. 021

CKT NO.	DESCRIPTION	NOTES	WIRE SIZE	GND SIZE	BKR AMP	P	A	B	C	P	BKR AMP	GND SIZE	WIRE SIZE	NOTES	DESCRIPTION	CKT NO.
3	WSHP 1-01		15	3	15	3	1383	4805	1383	90	1	20	8		INV	2
5											1	20			LTG-STAIR (ST-1)	4
7											1	20			LTG-EXTERIOR PARKING	6
9	WSHP 1-02		15	3	15	3	3458	1712	3458	2053	1	20			LTG-EXTERIOR AREA & FLAG	8
11											1	20			LTG-CORRIDORS	10
13	WSHP 1-03		15	3	15	3	1911	1330			1	20			LTG-LOWER LEVEL DISPATCH	12
15	WSHP 1-04, 06, 07		10	10	30	1		5872	1616		1	20			LTG-LOWER LEVEL TRAINING	14
17											1	20			LTG-TRAINING	16
19	WSHP 1-05		15	3	15	3	3209	0	3209	0	1	20	--	--	LTG-EOC & SUPPORT	18
21											1	20	--	--	SPARE	20
23											1	20	--	--	SPARE	22
25	WSHP 2-01, 10		10	10	30	3	5782	0	5782	0	1	20	--	--	SPARE	24
27											1	20	--	--	SPARE	26
29	WSHP 2-02		15	1	15	1				1801	1120	1	15		EF-1	30
31	WSHP 2-03, 04, 11		10	10	30	1	5512	9	2573	9					CRAC-1	32
33											3	50				34
35	WSHP 2-05		15	3	15	3				2573	9				CRAC-2	36
37											3	50				38
39	WSHP 2-06		15	3	15	3	2573	9	2573	9					CRAC-3	40
41											3	50				42
43																44
45	WSHP 2-08		15	1	15	1	2573	9	2327	9					CRAC-3	46
47	WSHP 2-09		15	1	15	1				1911	9					48
49	WSHP 2-12		15	1	15	1	1801	2573	--	2573	--				CRAC-3	50
51	EQUIPPED SPACE		--	--	--	--					3	15			CRAC-3	52
53	EQUIPPED SPACE		--	--	--	--									CRAC-3	54
55																56
57	EF-1		10	10	25	3	4703	2573	4703	2573					CRAC-3	58
59											3	15			CRAC-3	60
61																62
63	MP-1		10	10	30	3	5423	2573	5423	2573					CRAC-3	64
65																66
67																68
69	MP-2		10	10	30	3	5423	2904	5423	2904					CRAC-3	70
71											3	30	10	10	CRAC-3	72
73																74
75	MP-3		10	10	30	3	5423	--	5423	--					CRAC-3	76
77											3	--	--	--	CRAC-3	78
79																80
81	MP-4															82
83			20	3	20	3	581	53480	581	50240					CRAC-3	84
TOTAL LOAD:							121733 VA	113379 VA	118711 VA							
TOTAL AMPS:							442 A	409 A	432 A							
LOAD BALANCE:							3.96%	-3.82%	1.40%							

LOAD CLASSIFICATION	CONN. LOAD	DEMAND FACTOR	ESTIMATED DEMAND	PANELBOARD GENERAL NOTES:
COOLING	14110 VA	100.00%	14110 VA	A WIRE AND GROUND SIZE SHALL BE #12 UNLESS OTHERWISE NOTED.
LIGHTING	18983 VA	125.00%	23728 VA	
MOTORS	60379 VA	100.00%	60379 VA	
RECEPTACLES	120320 VA	54.16%	65160 VA	
MISC EQUIP	140031 VA	100.00%	140031 VA	

PANELBOARD TOTALS	TOTAL CONN. LOAD:	TOTAL EST. DEMAND LOAD:	TOTAL CONN. CURRENT:	TOTAL EST. DEMAND CURRENT:
	353823 VA	303408 VA	426 A	365 A

PANELBOARD: N0S2A

BUS AMPS: 400 A
MAIN SIZE/TYPE: 400A MCB
VOLT/SPHASE: 208Y/120 V, 3PH, 4W
SUPPLIED BY: T-N0S2

AIC RATING: 10,000 AIC
FAULT CURRENT: 4,876 A
CUM. VOLT. DROP: 1.25%
MOUNTING: SURFACE
LOCATION: ELEC. 021

60A, 3P SUBFEED BREAKER

CKT NO.	DESCRIPTION	NOTES	WIRE SIZE	GND SIZE	BKR AMP	P	A	B	C	P	BKR AMP	GND SIZE	WIRE SIZE	NOTES	DESCRIPTION	CKT NO.		
1	RCPT-139-EOC DISP. WALL N. A		20	1	20	1	460	0			3	30	--	--	SPD	2		
3	RCPT-139-EOC DISP. WALL E. A		20	1	20	1		460	0		1	20			RCPT-139-EOC FLR A	4		
5	SPARE	--	--	--	--	--				0	0					6		
7	RCPT-139-EOC DISP. WALL N. B		20	1	20	1	460	720			1	20			RCPT-139-EOC FLR B	8		
9	RCPT-139-EOC DISP. WALL E. B		20	1	20	1		460	1080		0	1080	1	20		RCPT-139-EOC FLR C	10	
11	SPARE	--	--	--	--	--				0	1080	1	20		RCPT-139-EOC FLR D	12		
13	RCPT-139-EOC DISP. WALL N. C		20	1	20	1	460	720			1	20			RCPT-139-EOC FLR E	14		
15	RCPT-139-EOC DISP. WALL E. C		20	1	20	1		460	1080		0	1080	1	20		RCPT-139-EOC FLR F	16	
17	SPARE	--	--	--	--	--				0	1080	1	20		RCPT-139-EOC DESK	18		
19	RCPT-139-EOC DISP. WALL N. D		20	1	20	1	460	720			1	20			RCPT-139-EOC	20		
21	SPARE	--	--	--	--	--				0	500	1	20		RCPT-139-EOC	22		
23	RCPT-016-POLICE CAPT.		20	1	20	1				1260	720	1	20		SPARE	24		
25	RCPT-015-POLICE SUPV		20	1	20	1	1260	0				--	--		RCPT-148-BREAK MICROWAVE	26		
27	RCPT-011-CORR-012-013 RR		20	1	20	1		1440	1200						RCPT-148-BREAK COFFEE	28		
29	RCPT-007-QA		20	1	20	1				1260	1500	1	20		RCPT-148-BREAK COUNTER	30		
31	RCPT-019-CONFERENCE		20	1	20	1	1260	540				1	20		RCPT-148-BREAK DISHWASHER	32		
33	RCPT-155-TRAINING FLR BXS 1		20	1	20	1		1440	1380			1	20		RCPT-148-BREAK FRIDGE	34		
35	RCPT-155-TRAINING FLR BXS 2		20	1	20	1				1440	800	1	20		RCPT-136.137.138.149	36		
37	RCPT-155-TRAINING FLR BXS 3		20	1	20	1	1440	1440				1	20		SPARE	38		
39	RCPT-155-TRAINING FLR BXS 4		20	1	20	1		1440	0			--	--		SPARE	40		
41	RCPT-155-TRAINING FLR BXS 5		20	1	20	1				1440	0	1	20	--	SPARE	42		
43	RCPT-155-TRAINING FLR BXS 6		20	1	20	1	1440	1260				1	20		RCPT-146-SERVER GENERAL	44		
45	RCPT-155-SOUTH WALL		20	1	20	1		1080	600			1	20		PWR-135/138 STORM DOOR	46		
47	RCPT-155-S.W. DISPLAY/PODIUM		20	1	20	1				900	1440	1	20		RCPT-017-TRAINING TV's	48		
49	RCPT-155-WEST WALL/DISPLAY		20	1	20	1	1080	1440				1	20		RCPT-017-DISPATCH TRAINING	50		
51	RCPT-155-W. DISPLAY/PODIUM		20	1	20	1				900	1200	1	20		RCPT-010-COPIER	52		
53	RCPT-155 NORTH WALL		20	1	20	1		900	1200			1	20		RCPT-010-SHREDDER	54		
55	RCPT-150-CORR. CREDENZA		20	1	20	1	900	540				1	20		RCPT-010-COPY/WORK	56		
57	RCPT-150-CORR. WATERICE DISP		20	1	20	1				800	1440	1	20		RCPT-005-FIRE DISPATCH N TV's	58		
59	RCPT-150-CORR. WATERFILLER	GF	20	1	20	1				600	900	1	20		RCPT-004-POLICE DISPATCH S TV's	60		
61	RCPT-150-CORR. DISPLAYS		20	1	20	1	720	1080				1	20		RCPT-004-POLICE DISPATCH S TV's	62		
63	RCPT-151-DRIVING SIM		20	1	20	1				540	1440	1	20		RCPT-004.005-DISPATCH GEN	64		
65	RCPT-152-EMS SIM 1		20	1	20	1				720	1080	1	20		RCPT-147 UPS/166 STOR	66		
67	RCPT-154-VIEWING		20	1	20	1	900	1260				1	20		RCPT-145 AC - EMERG. MGMT	68		
69	RCPT-139-EOC U.C. FRIDGE		20	1	20	1				400	1080	1	20		RCPT-144-PLANNER	70		
71	RCPT-139-EOC COFFEE 1		20	1	20	1				1600	1080	1	20		RCPT-143-CONFERENCE	72		
73	RCPT-139-EOC COFFEE 2		20	1	20	1	1600	1080				1	20		RCPT-142-CONFERENCE	74		
75	SPARE	--	--	--	--	--				0	1080	1	20		RCPT-140-CONF. DISP.	76		
77	SPARE	--	--	--	--	--				0	1080	1	20		RCPT-140-CONFERENCE	78		
79	SPARE	--	--	--	--	--	0	360				1	20		RCPT-141-STORAGE COPIER	80		
81	SPARE	--	--	--	--	--				0	1200	1	20		RCPT-141-LOTTER	82		
83	SPARE	--	--	--	--	--				0	0		--	--	SPARE	84		
85	RCPT-009-MICROWAVE 3		20	1	20	1	1200	600				1	20		PWR-EAST GATE	86		
87	RCPT-009-MICROWAVE 2		20	1	20	1				1200	600	1	20		PWR-WEST GATE	88		
89	RCPT-009-COUNTER RCPTS		20	1	20	1				540	600	1	20		PWR - STORM DOOR	90		
91	RCPT-009-FIRE DISPATCH S TV's		20	1	20	1	1260	0				--	--		SPARE	92		
93	RCPT-009-DISHWASHER		20	1	20	1		1380	0		1200	0	1	20	--	SPARE	94	
95	RCPT-009-MICROWAVE 1		20	1	20	1				1500	300	1	20	--	SPARE	96		
97	RCPT-009-COFFEE		20	1	20	1									PWR - MOTORIZED DAMPERS	98		
99	RCPT-009-WATERICE DISPENSER		20	1	20	1				180	200	1	20		PWR - FIRE/SMOKE DAMPERS	100		
101	RCPT-009-FRIDGE 1		20	1	20	1				1600	1200	1	20		GEN 1 - BATTERY CHARGER	102		
103	RCPT-009-COUNTER RCPTS 2		20	1	20	1	360	1500				1	20		GEN 1 - COOLANT HEATER	104		
105	RCPT-009-FIRE SUPV		20	1	20	1				1260	500	1	20		GEN 1 - MISC HEATERS	106		
107	SPARE	--	--	--	--	--				0	1200	1	20		GEN 2 - BATTERY CHARGER	108		
109	EQUIPPED SPACE	--	--	--	--	--				--	1500				GEN 2 - COOLANT HEATER	110		
111	EQUIPPED SPACE	--	--	--	--	--				--	500				GEN 2 - MISC HEATERS	112		
113	EQUIPPED SPACE	--	--	--	--	--				--	500				PWR-157-BAS	114		
115	EQUIPPED SPACE	--	--	--	--	--		500		--	600				PWR-020-FAC	116		
117	EQUIPPED SPACE	--	--	--	--	--				--	600				RPT 1-AQUASTAT	118		
119	EQUIPPED SPACE	--	--	--	--	--				--	600				EW1H	120		
121	EQUIPPED SPACE	--	--	--	--	--		6000		--						122		
123	EQUIPPED SPACE	--	--	--	--	--				--	6000				EW2H	124		
125	EQUIPPED SPACE	--	--	--	--	--				--	6000					126		
TOTAL LOAD:							40280 VA	35840 VA	42280 VA									
TOTAL AMPS:							341 A	299 A	358 A									
LOAD BALANCE:							3.87%	-9.12%	8.94%									

10/30/2017

A

B

C

D

E

F

G

H

I

J

12

6

PAN	
CKT NO.	
3	RCPT
5	RCPT
7	RCPT
9	RCPT
11	RCPT
13	RCPT
15	RCPT
17	RCPT
19	RCPT
21	RCPT
23	RCPT
25	RCPT
27	RCPT
29	RCPT
31	RCPT
33	RCPT
35	RCPT
37	RCPT
39	RCPT
41	RCPT
43	RCPT
45	RCPT
47	RCPT
49	RCPT
51	RCPT
53	RCPT
55	RCPT
57	RCPT
59	RCPT
61	RCPT
63	RCPT
65	RCPT
67	RCPT
69	RCPT
71	RCPT
73	RCPT
75	RCPT
77	RCPT
79	RCPT
81	RCPT
83	RCPT
LOAD CLASS	
RECEPTACLE	
PAN	
CKT NO.	
1	
5	CU-VI
9	
11	UH-VI
13	
15	UH-V3
17	
19	LIG-B4
21	PWR-F
23	PWR-F
25	PWR-F
27	
29	SPARE
LOAD CLASS	
COOLING	
HEATING	
LIGHTING	
RECEPTACLE	
MISC EQUIP	

AF	ARC FALUT CIRCUIT INTERRUPTER (AFCI) BREAKER
CM	ROUTE CABLE THROUGH CONTACTOR #
EX	EMERGENCY LIGHTING HANDLE ON CLAMP EXISTING TO REMAIN
GF	GROUND FAULT CIRCUIT INTERRUPTER (GFI) ON CLAMP
FG	GROUND FAULT CIRCUIT HANDLE (GFCI) BREAKER
HT#	PROVIDE HANDLE TIES TO COMPLY WITH NEC 210.4(b) # INDICATES GROUPING (I.E. GROUP 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 63, 64, 65, 66, 67, 68, 69, 70, 71, 72, 73, 74, 75, 76, 77, 78, 79, 80, 81, 82, 83, 84, 85, 86, 87, 88, 89, 90, 91, 92, 93, 94, 95, 96, 97, 98, 99, 100)
LK	HANDLE PADLOCKABLE OFF (I.E. HANDLE ON CLAMP)
LO	PROVIDE BREAKER IN EXISTING PANELBOARD A/C RATING OF NEW BREAKER MATCH THE PANELBOARD A/C RATING
TS#	TANDER BREAKER # INDICATES GROUPING
OL	REFER TO ONELINE DIAGRAM FOR FEEDER IN LINE
RE	REMOVE EXISTING BREAKER TO SERVE NEW LOAD
SD	SPARE BREAKER AFTER DEMOLITION

22 PENNSYLVANIA AVENUE
SUITE 1400
KANSAS CITY, MO 64112
P: 913.307.3700
hoefenwelker.com

2 NE TUDOR RD

LEE S SUMMIT, MISSOURI 64080

[illegible]

E-602

PANELBOARD SCHEDULES

9'-1" 2 0 1 1 1/2" = 1'-0" 3 0 2 1 1" = 1'-0" 4 0 2 1 3/4" = 1'-0" 6 0 2 1 1/2" = 1'-0" 8 0 2 3/8" = 1'-0" 10 0 2 3/16" = 1'-0" 12 0 2 3/32" = 1'-0" 14 0 2 1/16" = 1'-0" 16 0 2 1/32" = 1'-0" 18 0 2 1/64" = 1'-0" 20 0 2 1/128" = 1'-0" 22 0 2 1/256" = 1'-0" 24 0 2 1/512" = 1'-0" 26 0 2 1/1024" = 1'-0" 28 0 2 1/2048" = 1'-0" 30 0 2 1/4096" = 1'-0" 32 0 2 1/8192" = 1'-0" 34 0 2 1/16384" = 1'-0" 36 0 2 1/32768" = 1'-0" 38 0 2 1/65536" = 1'-0" 40 0 2 1/131072" = 1'-0" 42 0 2 1/262144" = 1'-0" 44 0 2 1/524288" = 1'-0" 46 0 2 1/1048576" = 1'-0" 48 0 2 1/2097152" = 1'-0" 50 0 2 1/4194304" = 1'-0" 52 0 2 1/8388608" = 1'-0" 54 0 2 1/16777216" = 1'-0" 56 0 2 1/33554432" = 1'-0" 58 0 2 1/67108864" = 1'-0" 60 0 2 1/134217728" = 1'-0" 62 0 2 1/268435456" = 1'-0" 64 0 2 1/536870912" = 1'-0" 66 0 2 1/1073741824" = 1'-0" 68 0 2 1/2147483648" = 1'-0" 70 0 2 1/4294967296" = 1'-0" 72 0 2 1/8589934592" = 1'-0" 74 0 2 1/17179869184" = 1'-0" 76 0 2 1/34359738368" = 1'-0" 78 0 2 1/68719476736" = 1'-0" 80 0 2 1/137438953472" = 1'-0" 82 0 2 1/274877906944" = 1'-0" 84 0 2 1/549755813888" = 1'-0" 86 0 2 1/1099511627776" = 1'-0" 88 0 2 1/2199023255552" = 1'-0" 90 0 2 1/4398046511104" = 1'-0" 92 0 2 1/8796093022208" = 1'-0" 94 0 2 1/17592186044416" = 1'-0" 96 0 2 1/35184372088832" = 1'-0" 98 0 2 1/70368744177664" = 1'-0" 100 0 2 1/140737488355328" = 1'-0" 102 0 2 1/281474976710656" = 1'-0" 104 0 2 1/562949953421312" = 1'-0" 106 0 2 1/1125899906842624" = 1'-0" 108 0 2 1/2251799813685248" = 1'-0" 110 0 2 1/4503599627370496" = 1'-0" 112 0 2 1/9007199254740992" = 1'-0" 114 0 2 1/18014398509481984" = 1'-0" 116 0 2 1/36028797018963968" = 1'-0" 118 0 2 1/72057594037927936" = 1'-0" 120 0 2 1/144115188075855872" = 1'-0" 122 0 2 1/288230376151711744" = 1'-0" 124 0 2 1/576460752303423488" = 1'-0" 126 0 2 1/1152921504606846976" = 1'-0" 128 0 2 1/2305843009213693952" = 1'-0" 130 0 2 1/4611686018427387904" = 1'-0" 132 0 2 1/9223372036854775808" = 1'-0" 134 0 2 1/18446744073709551616" = 1'-0" 136 0 2 1/36893488147419103232" = 1'-0" 138 0 2 1/73786976294838206464" = 1'-0" 140 0 2 1/147573952589676412928" = 1'-0" 142 0 2 1/295147905179352825856" = 1'-0" 144 0 2 1/590295810358705651712" = 1'-0" 146 0 2 1/1180591620717411303424" = 1'-0" 148 0 2 1/2361183241434822606848" = 1'-0" 150 0 2 1/4722366482869645213696" = 1'-0" 152 0 2 1/9444732965739290427392" = 1'-0" 154 0 2 1/18889465931478580854784" = 1'-0" 156 0 2 1/37778931862957161709568" = 1'-0" 158 0 2 1/75557863725914323419136" = 1'-0" 160 0 2 1/151115727451828646838272" = 1'-0" 162 0 2 1/302231454903657293676544" = 1'-0" 164 0 2 1/604462909807314587353088" = 1'-0" 166 0 2 1/1208925819614629174706176" = 1'-0" 168 0 2 1/2417851639229258349412352" = 1'-0" 170 0 2 1/4835703278458516698824704" = 1'-0" 172 0 2 1/9671406556917033397649408" = 1'-0" 174 0 2 1/19342813113834066795298816" = 1'-0" 176 0 2 1/38685626227668133590597632" = 1'-0" 178 0 2 1/77371252455336267181195264" = 1'-0" 180 0 2 1/154742504910672534362390528" = 1'-0" 182 0 2 1/309485009821345068724781056" = 1'-0" 184 0 2 1/618970019642690137449562112" = 1'-0" 186 0 2 1/1237940039285380274899124224" = 1'-0" 188 0 2 1/2475880078570760549798248448" = 1'-0" 190 0 2 1/4951760157141521099596496896" = 1'-0" 192 0 2 1/9903520314283042199192993792" = 1'-0" 194 0 2 1/19807040628566084398385987584" = 1'-0" 196 0 2 1/39614081257132168796771975168" = 1'-0" 198 0 2 1/79228162514264337593543950336" = 1'-0" 200 0 2 1/158456325028528675187087900672" = 1'-0" 202 0 2 1/316912650057057350374175801344" = 1'-0" 204 0 2 1/633825300114114700748351602688" = 1'-0" 206 0 2 1/1267650600228229401496703205376" = 1'-0" 208 0 2 1/2535301200456458802993406410752" = 1'-0" 210 0 2 1/5070602400912917605986812821504" = 1'-0" 212 0 2 1/10141204801825835211973625643008" = 1'-0" 214 0 2 1/20282409603651670423947251286016" = 1'-0" 216 0 2 1/40564819207303340847894502572032" = 1'-0" 218 0 2 1/81129638414606681695789005144064" = 1'-0" 220 0 2 1/162259276829213363391578010288128" = 1'-0" 222 0 2 1/324518553658426726783156020576256" = 1'-0" 224 0 2 1/649037107316853453566312041152512" = 1'-0" 226 0 2 1/1298074214633706907132624082305024" = 1'-0" 228 0 2 1/2596148429267413814265248164610048" = 1'-0" 230 0 2 1/5192296858534827628530496329220096" = 1'-0" 232 0 2 1/10384593717069655257060992658440192" = 1'-0" 234 0 2 1/20769187434139310514121985316880384" = 1'-0" 236 0 2 1/41538374868278621028243970633760768" = 1'-0" 238 0 2 1/83076749736557242056487941267521536" = 1'-0" 240 0 2 1/166153499473114484112975882535043072" = 1'-0" 242 0 2 1/332306998946228968225951765070086144" = 1'-0" 244 0 2 1/664613997892457936451903530140172288" = 1'-0" 246 0 2 1/1329227995784915872903807060280344576" = 1'-0" 248 0 2 1/2658455991569831745807614120560689152" = 1'-0" 250 0 2 1/5316911983139663491615228241121378304" = 1'-0" 252 0 2 1/10633823966279326983230456482242756608" = 1'-0" 254 0 2 1/21267647932558653966460912964485513216" = 1'-0" 256 0 2 1/42535295865117307932921825928971026432" = 1'-0" 258 0 2 1/85070591730234615865843651857942052864" = 1'-0" 260 0 2 1/170141183460469231731687303715884105216" = 1'-0" 262 0 2 1/340282366920938463463374607431768210432" = 1'-0" 264 0 2 1/680564733841876926926749214863536420864" = 1'-0" 266 0 2 1/1361129467683753853853498429727072841728" = 1'-0" 268 0 2 1/2722258935367507707706996859454145683456" = 1'-0" 270 0 2 1/5444517870735015415413993718908291366912" = 1'-0" 272 0 2 1/10889035741470030830827987437816582733824" = 1'-0" 274 0 2 1/21778071482940061661655974875633165467648" = 1'-0" 276 0 2 1/43556142965880123323311949751266330935296" = 1'-0" 278 0 2 1/87112285931760246646623899502532661870592" = 1'-0" 280 0 2 1/174224571863520493293247799005065237401152" = 1'-0" 282 0 2 1/348449143727040986586495598010130474802304" = 1'-0" 284 0 2 1/696898287454081973172991196020260949604608" = 1'-0" 286 0 2 1/1393796574908163946345982392040521892009216" = 1'-0" 288 0 2 1/2787593149816327892691964784081043784018432" = 1'-0" 290 0 2 1/5575186299632655785383929568162087568036864" = 1'-0" 292 0 2 1/11150372599265311570767859136324175136073728" = 1'-0" 294 0 2 1/2230074519853062314153571827264835027214752" = 1'-0" 296 0 2 1/4460149039706124628307143654529670054429504" = 1'-0" 298 0 2 1/8920298079412249256614287309059340108859008" = 1'-0" 300 0 2 1/17840596158824498513228574618118680217718112" = 1'-0" 302 0 2 1/35681192317648997026457149236237360435436224" = 1'-0" 304 0 2 1/71362384635297994052914298472474720870872448" = 1'-0" 306 0 2 1/142724769270595988105828596944949441741744896" = 1'-0" 308 0 2 1/28544953854119197621165719388989888348348992" = 1'-0" 310 0 2 1/57089907708238395242331438777979776696697984" = 1'-0" 312 0 2 1/114179815416476790484662877555959553393395968" = 1'-0" 314 0 2 1/228359630832953580969325755111919106786791936" = 1'-0" 316 0 2 1/456719261665907161938651510223838213573583872" = 1'-0" 318 0 2 1/913438523331814323877303020447676427147167744" = 1'-0" 320 0 2 1/182687704666362864775460604089535285429433528" = 1'-0" 322 0 2 1/365375409332725729550921208179070570858867056" = 1'-0" 324 0 2 1/730750818665451459101842416358141141717734112" = 1'-0" 326 0 2 1/1461501637330902918203684832716282283435468224" = 1'-0" 328 0 2 1/2923003274661805836407369665432564566870936448" = 1'-0" 330 0 2 1/5846006549323611672814739330865129133741872896" = 1'-0" 332 0 2 1/11692013098647223345629478661730258267483745792" = 1'-0" 334 0 2 1/23384026197294446691258957323460516534967491584" = 1'-0" 336 0 2 1/46768052394588893382517914646921033069934983168" = 1'-0" 338 0 2 1/93536104789177786765035829293842066139869966336" = 1'-0" 340 0 2 1/187072209578355573530071658587684132279739932672" = 1'-0" 342 0 2 1/374144419156711147060143317175368264559479865344" = 1'-0" 344 0 2 1/748288838313422294120286634350736529118959730688" = 1'-0" 346 0 2 1/1496577676626844588240573268701473058237919461376" = 1'-0" 348 0 2 1/2993155353253689176481146537402946116475838922752" = 1'-0" 350 0 2 1/5986310706507378352962293074805892232951677845504" = 1'-0" 352 0 2 1/11972621413014756705924586149611784465903355691008" = 1'-0" 354 0 2 1/23945242826029513411849172299223568931806711382016" = 1'-0" 356 0 2 1/47890485652059026823698344598447137863613422764032" = 1'-0" 358 0 2 1/95780971304118053647396689196894275727226845528064" = 1'-0" 360 0 2 1/191561942608236107294793378393788551454453691056128" = 1'-0" 362 0 2 1/383123885216472214589586756787577102908907382112256" = 1'-0" 364 0 2 1/766247770432944429179173513575154205817814764224512" = 1'-0" 366 0 2 1/1532495540865888858358347027150308411635629528449024" = 1'-0" 368 0 2 1/3064991081731777716716694054300616823271259056898048" = 1'-0" 370 0 2 1/612998216346355543343338810860123364654251811379616" = 1'-0" 372 0 2 1/1225996432692711086686677621720246729308503622759232" = 1'-0" 374 0 2 1/2451992865385422173373355243440493458617007245518464" = 1'-0" 376 0 2 1/4903985730770844346746710486880986917234014491036928" = 1'-0" 378 0 2 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1/80346902148130313777098104617057696515962055021149028352" = 1'-0" 406 0 2 1/16069380429626062755419620923411539303192411004229805664" = 1'-0" 408 0 2 1/32138760859252125510839241846822678606384822008459611328" = 1'-0" 410 0 2 1/64277521718504251021678483693645357212769644016919222656" = 1'-0" 412 0 2 1/128555043437008502043356967387290714425539288033838445312" = 1'-0" 414 0 2 1/257110086874017004086713934774581428451078576067676890624" = 1'-0" 416 0 2 1/514220173748034008173427869549162856902157152135353781248" = 1'-0" 418 0 2 1/1028440347496068016346855739098325713804314304270707562496" = 1'-0" 420 0 2 1/2056880694992136032693711478196651427608628608541415124992" = 1'-0" 422 0 2 1/4113761389984272065387422956393302855217257217082830249984" = 1'-0" 424 0 2 1/8227522779968544130774845912786605710434514434165660499968" = 1'-0" 426 0 2 1/16455045559937088261549691825573210868869028868331320999936" = 1'-0" 428 0 2 1/32910091119874176523099383651146421737738057736662641999872" = 1'-0" 430 0 2 1/65820182239748353046198767302292834675476115473325283999744" = 1'-0" 432 0 2 1/131640364479496706092397534604585669350952230946650567999488" = 1'-0" 434 0 2 1/263280728958993412184795069209171338701904461893301135998976" = 1'-0" 436 0 2 1/526561457917986824369590138418342677403808923786602271997952" = 1'-0" 438 0 2 1/1053122915835973648739180276836685348807617847573204543995904" = 1'-0" 440 0 2 1/2106245831671947297478360553673370697615235695146409087991808" = 1'-0" 442 0 2 1/4212491663343894594956721107346741395230471390292818175983616" = 1'-0" 444 0 2 1/8424983326687789189913442214693482790460942780585636351967232" = 1'-0" 446 0 2 1/16849966653375578379826884429386965780921885561171272703934464" = 1'-0" 448 0 2 1/33699933306751156759653768858773931561843771122342545467868928" = 1'-0" 450 0 2 1/67399866613502313519307537717547863123687542244685090935737856" = 1'-0" 452 0 2 1/134799733227004627038615075435095726247375084489370181871475712" = 1'-0" 454 0 2 1/269599466454009254077230150870191452494750168978740363742951424" = 1'-0" 456 0 2 1/539198932908018508154460301740382904989500337957480727485902848" = 1'-0" 458 0 2 1/1078397865816037016308920603480765809979000675914961454911805696" = 1'-0" 460 0 2 1/2156795731632074032617841206961531619958001351829922909823611392" = 1'-0" 462 0 2 1/4313591463264148065235682413923063239916002703659845819647222784" = 1'-0" 464 0 2 1/8627182926528296130471364827846126479832005407319691639294445568" = 1'-0" 466 0 2 1/17254365853056592260942729657692252959664010814639383278588891136" = 1'-0" 468 0 2 1/34508731706113184521885459315384505919328021629278766557177782272" = 1'-0" 470 0 2 1/69017463412226369043770918630769011838656043258557533114355564544" = 1'-0" 472 0 2 1/138034926824452738087541837261538023677312086517115066228711129088" = 1'-0" 474 0 2 1/276069853648905476175083674523076047354624173034230132574222258176" = 1'-0" 476 0 2 1/55213970729781095235016734904615209470924834606846



GENERAL NOTES:

1. REFER TO SHEET TG001 FOR GENERAL TECHNOLOGY NOTES.

TECHNOLOGY PLAN NOTES:

T2 PROVIDE (8) CAT6 DATA CABLES TOTAL TO DISPATCH LOCATION THROUGH FURNITURE FEED TO (2) PATCH PANELS INSTALLED IN THE CPU CABINET. PROVIDE (1) RED CABLE AND TERMINATION FOR 911, (1) PURPLE CABLE AND TERMINATIONS FOR FIRE CAD, (1) BLUE CABLE FOR PHONE, (1) BLUE CABLE AND TERMINATION FOR PD NETWORK, AND (1) BROWN CABLE AND TERMINATION FOR FIRE NETWORK TO DATA PATCH PANEL IN CPU CABINET. PROVIDE (2) YELLOW CABLES AND TERMINATIONS FOR RADIO CONSOLE, (1) WHITE CABLE AND TERMINATION FOR BACKUP RADIO REMOTE, AND (1) BLACK SPARE CABLE AND TERMINATION TO RADIO PATCH PANEL IN CPU CABINET.

T3 PROVIDE (8) CAT6 DATA CABLES TOTAL TO DISPATCH LOCATION THROUGH FURNITURE FEED TO (2) PATCH PANELS INSTALLED IN THE CPU CABINET. PROVIDE (1) RED CABLE AND TERMINATION FOR 911, (1) ORANGE CABLE AND TERMINATION FOR PD CAD, (1) GREEN CABLE AND TERMINATION FOR PHONE, AND (1) BLUE CABLE AND TERMINATION FOR PD NETWORK, AND (1) GREY CABLE AND TERMINATION FOR MOTOROLA ALARMS TO DATA PATCH PANEL IN CPU CABINET. PROVIDE (2) YELLOW CABLES AND TERMINATIONS FOR RADIO CONSOLE, (1) WHITE CABLE AND TERMINATION FOR BACKUP RADIO REMOTE, AND (1) BLACK SPARE CABLE AND TERMINATION TO RADIO PATCH PANEL IN CPU CABINET.

T4 PROVIDE (8) CAT6 DATA CABLES TOTAL TO DISPATCH LOCATION THROUGH FURNITURE FEED TO (2) PATCH PANELS INSTALLED IN THE CPU CABINET. PROVIDE (1) RED CABLE AND TERMINATION FOR 911, (1) ORANGE CABLE AND TERMINATION FOR PD CAD, (1) GREEN CABLE AND TERMINATION FOR PHONE, (1) BLUE CABLE AND TERMINATION FOR PD NETWORK, (1) GREY CABLE AND TERMINATION FOR MOTOROLA ALARMS, (2) YELLOW CABLES AND TERMINATIONS FOR RADIO CONSOLE, (1) WHITE CABLE AND TERMINATION FOR BACKUP RADIO REMOTE, AND (2) BLACK SPARE CABLE AND TERMINATION TO RADIO PATCH PANEL IN CPU CABINET.

T5 POLICE SUPERVISOR TO HAVE (10) CAT6 DATA CABLES TOTAL PROVIDED. PROVIDE (1) RED CABLE AND TERMINATION FOR 911, (1) ORANGE CABLE AND TERMINATION FOR PD CAD, (1) GREEN CABLE AND TERMINATION FOR PHONE, (1) BLUE CABLE AND TERMINATION FOR PD NETWORK, (1) GREY CABLE AND TERMINATION FOR MOTOROLA ALARMS, (2) YELLOW CABLES AND TERMINATIONS FOR RADIO CONSOLE, (1) WHITE CABLE AND TERMINATION FOR BACKUP RADIO REMOTE, (1) GREY CABLE AND TERMINATIONS FOR MOTOROLA ALARMS, AND (2) SPARE BLACK CABLE AND TERMINATIONS.

T6 FIRE SUPERVISOR TO HAVE (11) CAT6 DATA CABLES TOTAL PROVIDED. PROVIDE (1) RED CABLE AND TERMINATION FOR 911, (1) CABLE FOR FIRE CAD, (1) GREEN CABLE AND TERMINATION FOR PHONE, (1) CABLE FOR PD NETWORK, (1) BROWN CABLE AND TERMINATION FOR FIRE NETWORK, (2) YELLOW CABLES AND TERMINATIONS FOR RADIO CONSOLE, (1) WHITE CABLE AND TERMINATION FOR BACKUP RADIO REMOTE, (1) GREY CABLE AND TERMINATIONS FOR MOTOROLA ALARMS, AND (2) SPARE BLACK CABLE AND TERMINATIONS.

T7 POLICE CAPTAIN TO HAVE (7) CAT6 DATA CABLES TOTAL PROVIDED. PROVIDE (1) CABLE FOR 911, (1) CABLE FOR PD CAD, (1) CABLE FOR PHONE, (1) CABLE FOR PD NETWORK, (1) CABLE FOR BACKUP RADIO REMOTE, AND (2) SPARE CABLE.

T8 QA TO HAVE (6) CAT6 DATA CABLES TOTAL PROVIDED. PROVIDE (1) GREEN CABLE AND TERMINATION FOR PHONE, (1) BLUE CABLE AND TERMINATION FOR PD NETWORK, (1) BROWN CABLE AND TERMINATION FOR FIRE NETWORK, AND (2) SPARE BLACK CABLES AND TERMINATIONS.

T9 PROVIDE (6) CAT6 DATA CABLES TOTAL TO DISPATCH LOCATION THROUGH FURNITURE FEED TO (2) PATCH PANELS INSTALLED IN THE CPU CABINET. PROVIDE (1) RED CABLE AND TERMINATION FOR 911, (1) PURPLE CABLE AND TERMINATION FOR FIRE CAD, (1) GREEN CABLE AND TERMINATION FOR PHONE, (1) BLUE CABLE AND TERMINATION FOR PD NETWORK, AND (1) BROWN CABLE AND TERMINATION FOR FIRE NETWORK TO DATA PATCH PANEL IN CPU CABINET. PROVIDE (2) YELLOW CABLES AND TERMINATIONS FOR RADIO CONSOLE, (1) WHITE CABLE AND TERMINATION FOR BACKUP RADIO REMOTE, AND (1) SPARE BLACK CABLE AND TERMINATION TO RADIO PATCH PANEL IN CPU CABINET.

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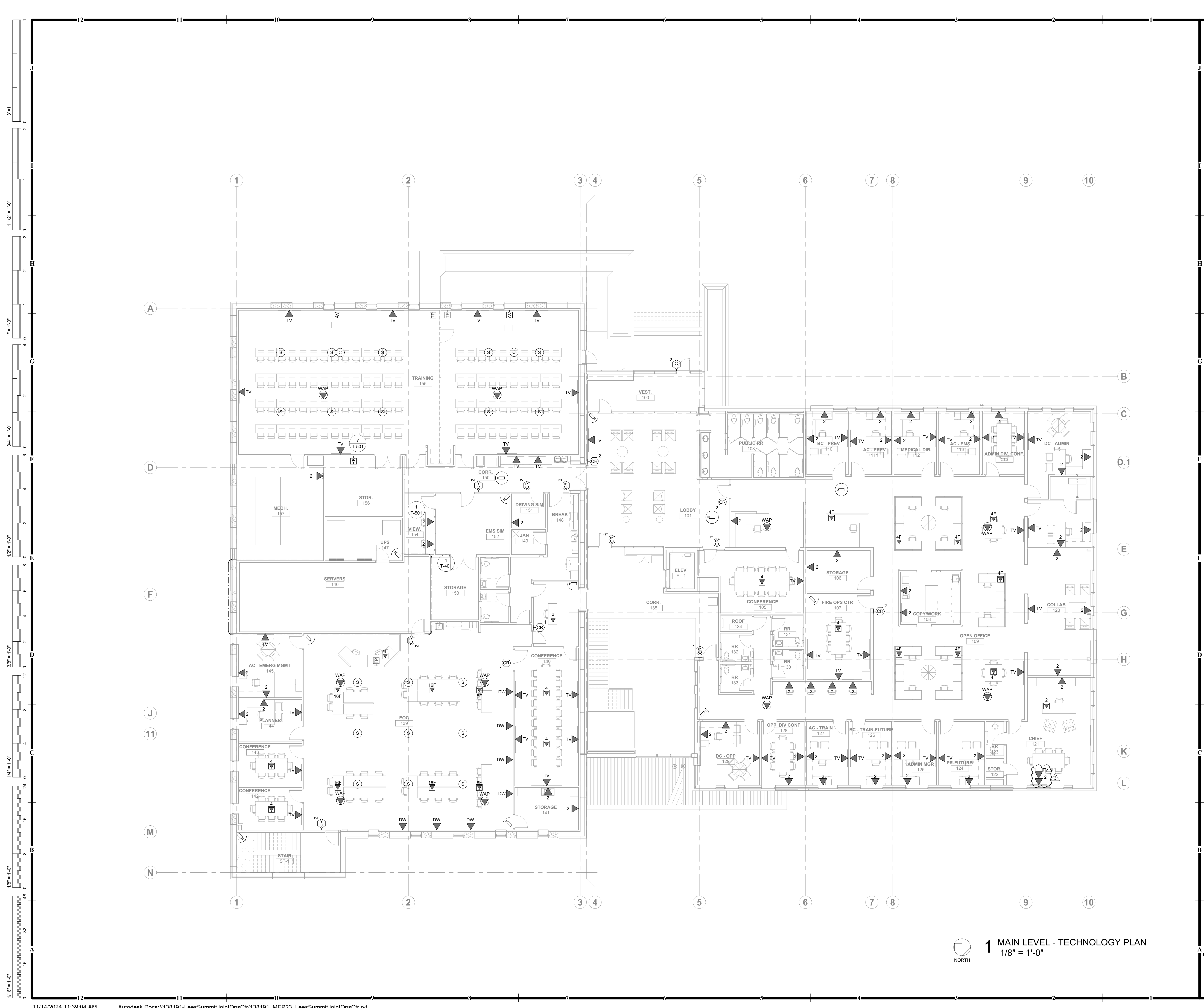
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REVISION DATES:
3 ADDENDUM #3 11/18/2024

PROFESSIONAL SEAL
T-100
ISSUE DATE: NOVEMBER 1, 2024
HOEFER WELKER #: 138191

1 LOWER LEVEL - TECHNOLOGY PLAN
1/8" = 1'-0"

LOWER LEVEL - TECHNOLOGY PLAN

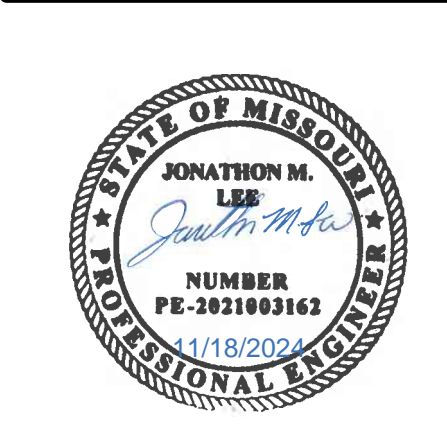


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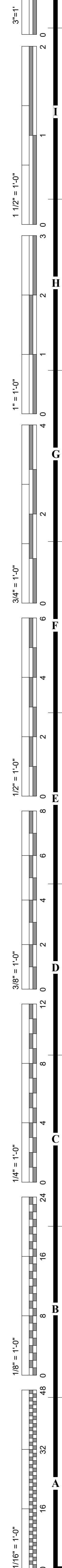


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T-101

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MAIN LEVEL - TECHNOLOGY PLAN



1. REFER TO SHEET TG001 FOR GENERAL TECHNOLOGY NOTES.

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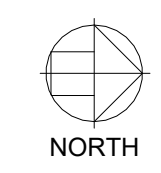
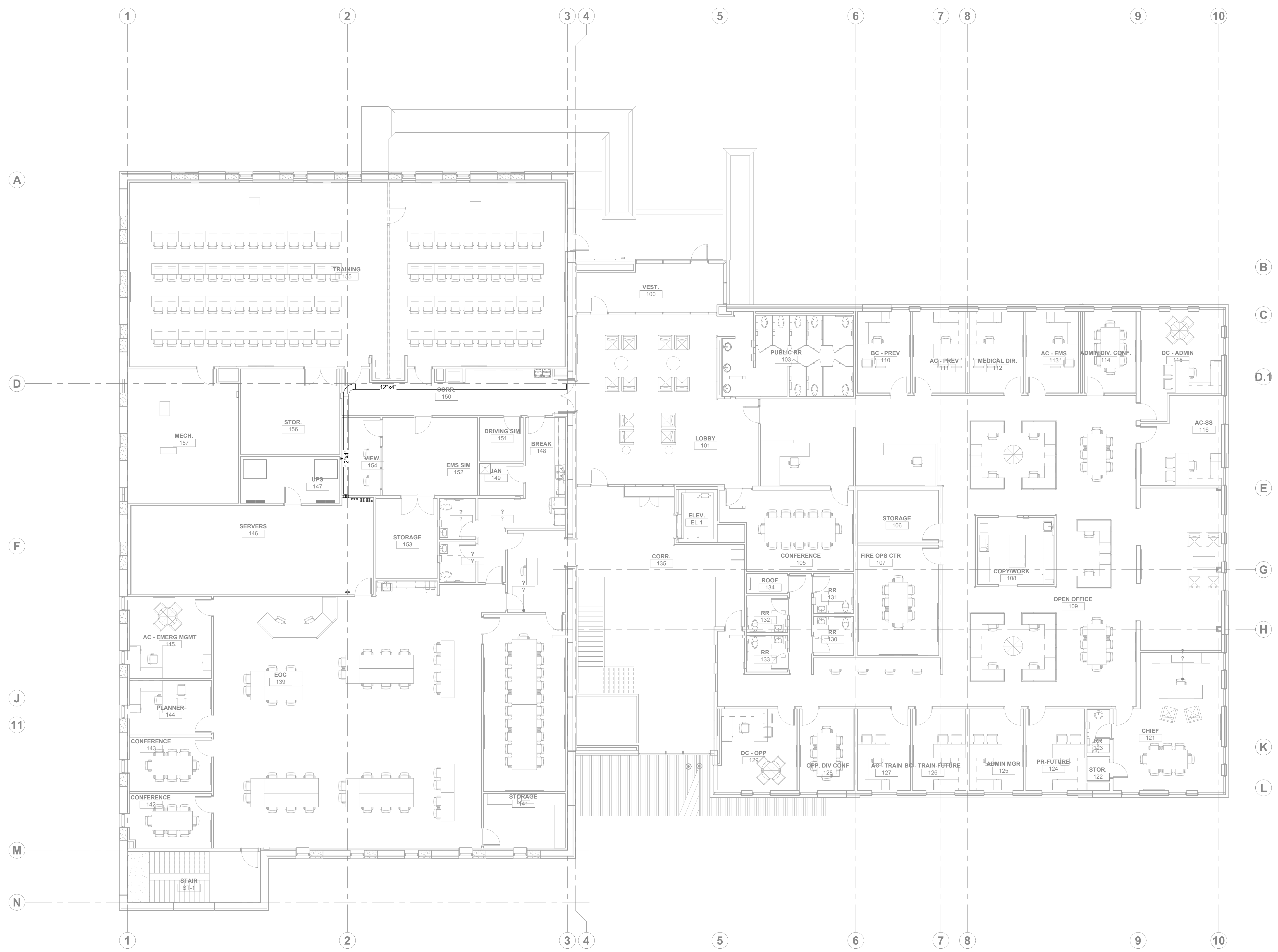
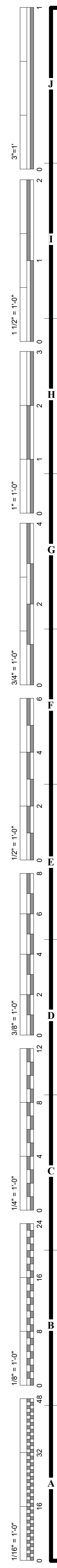
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LOWER LEVEL - TECHNOLOGY CABLE TRAY PLAN

1 LOWER LEVEL - TECHNOLOGY CABLE TRAY PLAN
1/8" = 1'-0"



1 MAIN LEVEL - TECHNOLOGY CABLE TRAY PLAN
1/8" = 1'-0"

GENERAL NOTES:
1. REFER TO SHEET TG001 FOR GENERAL TECHNOLOGY NOTES.

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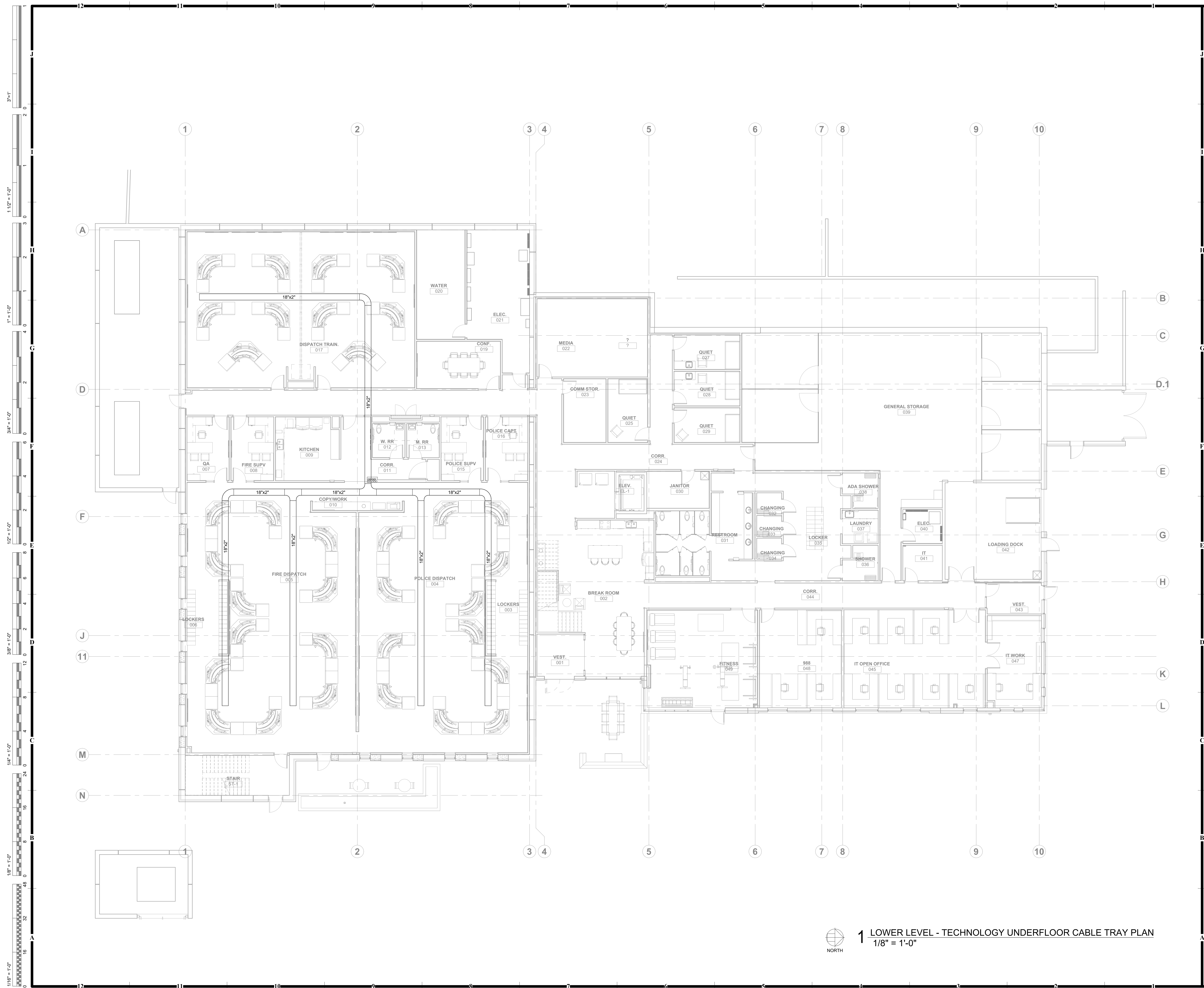
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T-111
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MAIN LEVEL - TECHNOLOGY CABLE TRAY PLAN



1. REFER TO SHEET TG001 FOR GENERAL TECHNOLOGY NOTES.

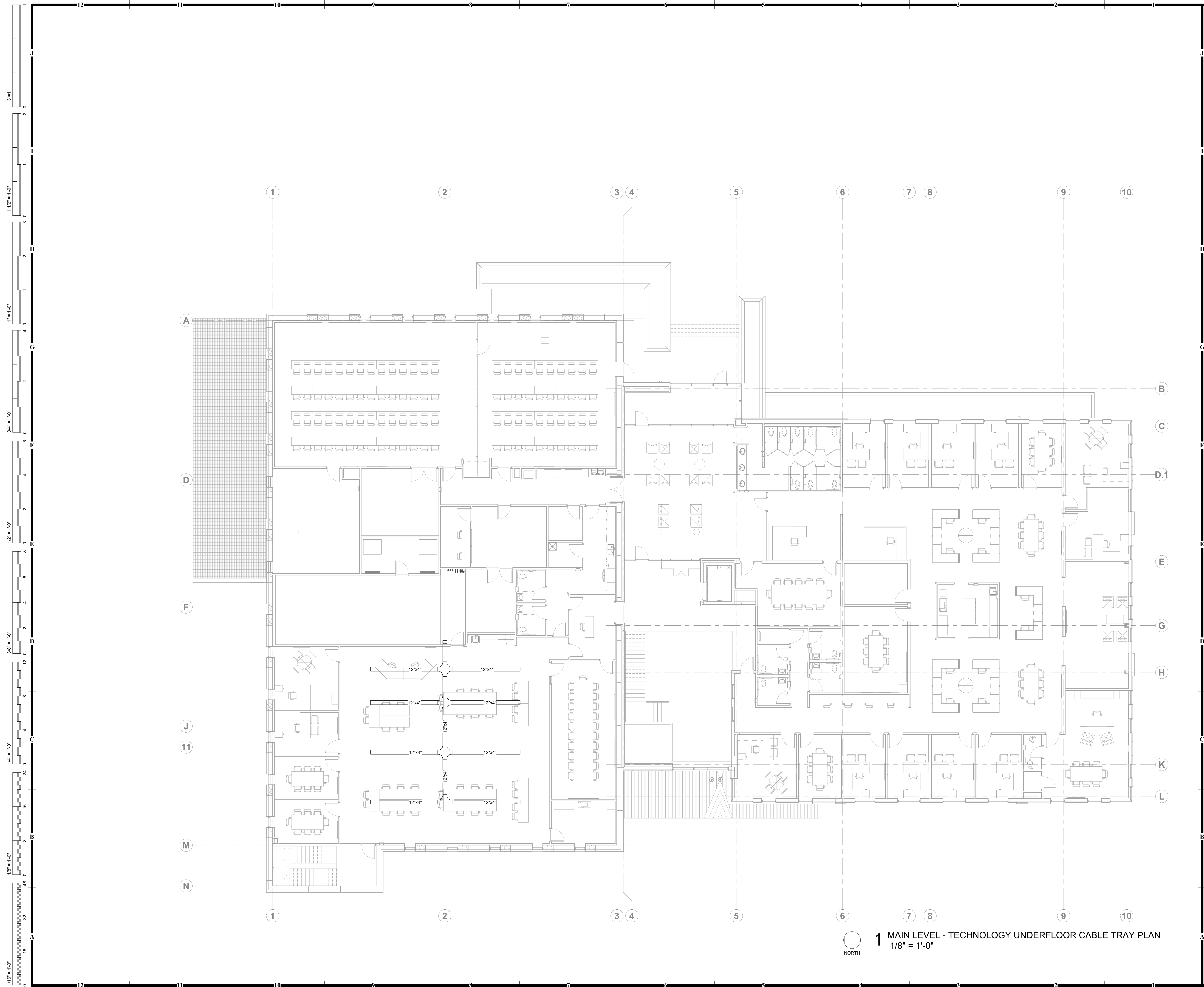
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LOWER LEVEL - TECHNOLOGY UNDERFLOOR CABLE TRAY PLAN



1. REFER TO SHEET TG001 FOR GENERAL TECHNOLOGY NOTES.

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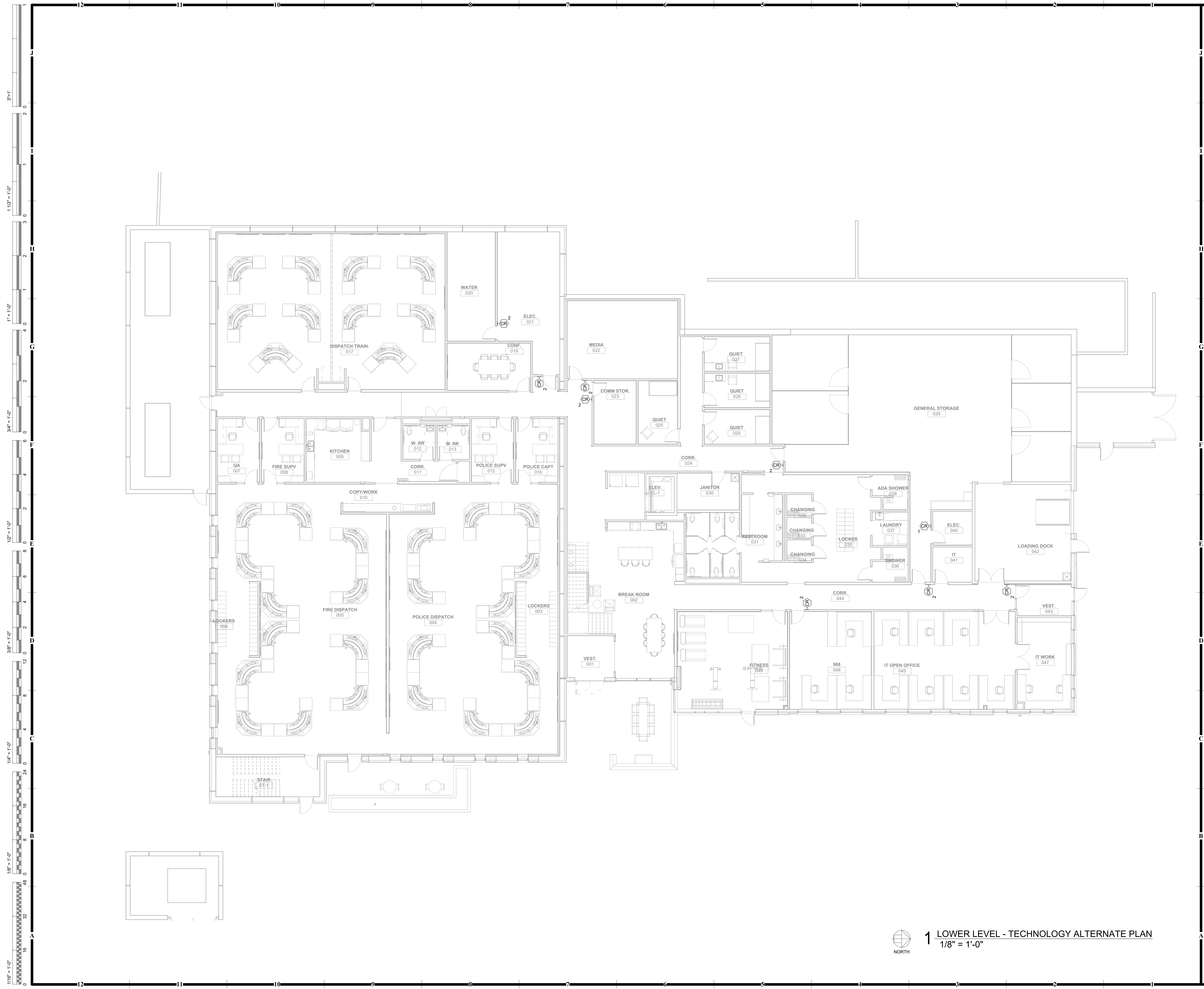
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MAIN LEVEL - TECHNOLOGY UNDERFLOOR CABLE TRAY PLAN



GENERAL NOTES:

1. REFER TO SHEET TG001 FOR GENERAL TECHNOLOGY NOTES.
2. SOUND MASKING SYSTEM IS PART OF ALTERNATE 3.
3. CARD READERS SHOWN ARE PART OF ALTERNATE 2.

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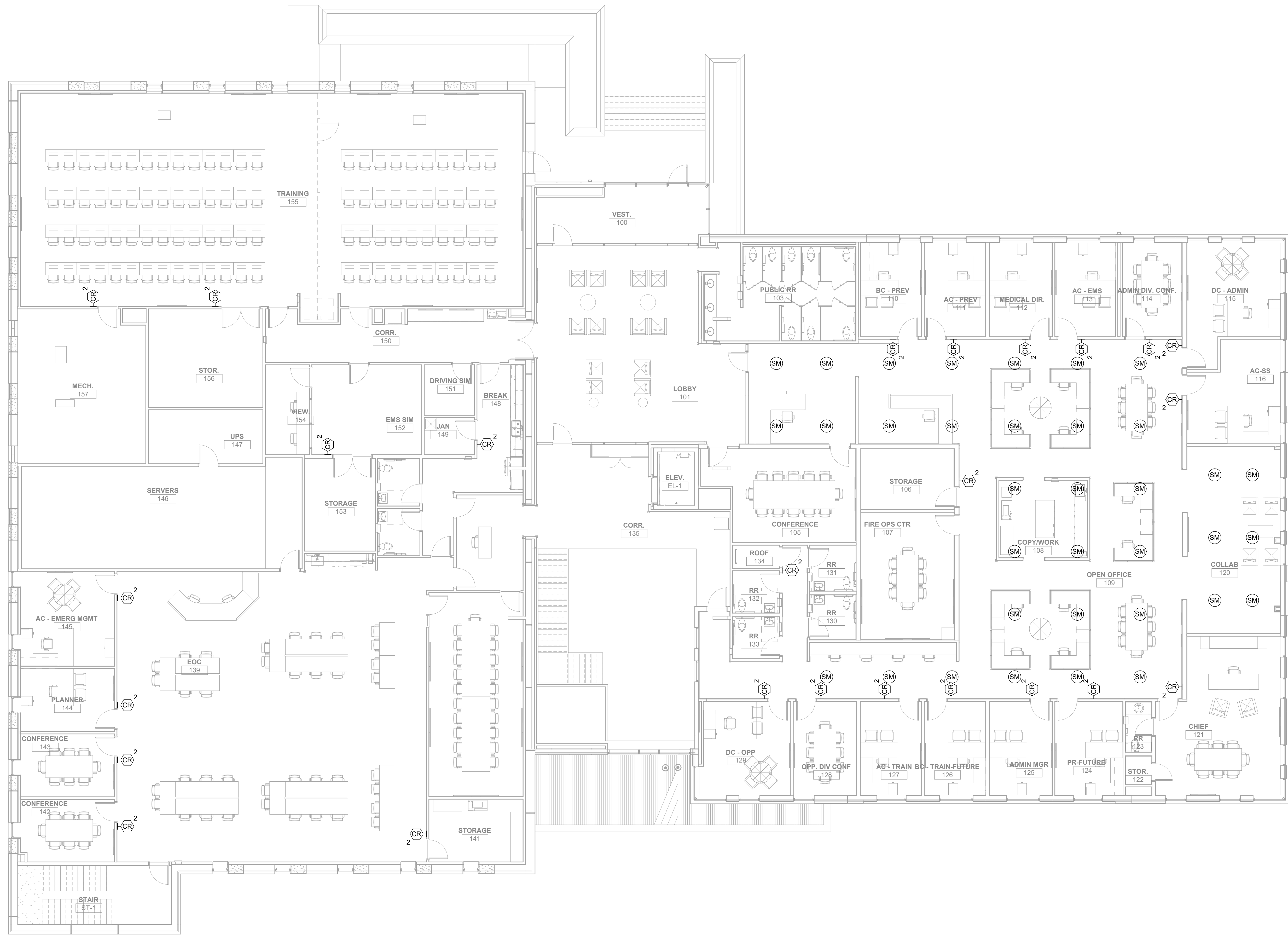
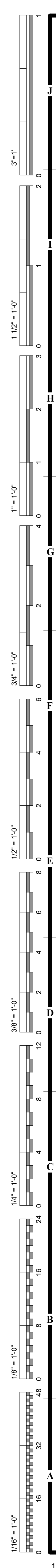


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T-200

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LOWER LEVEL - TECHNOLOGY
ALTERNATE PLAN



1 MAIN LEVEL - TECHNOLOGY ALTERNATE PLAN
1/8" = 1'-0"

GENERAL NOTES:

1. REFER TO SHEET TG001 FOR GENERAL TECHNOLOGY NOTES.
2. SOUND MASKING SYSTEM IS PART OF ALTERNATE 3.
3. CARD READERS SHOWN ARE PART OF ALTERNATE 2.

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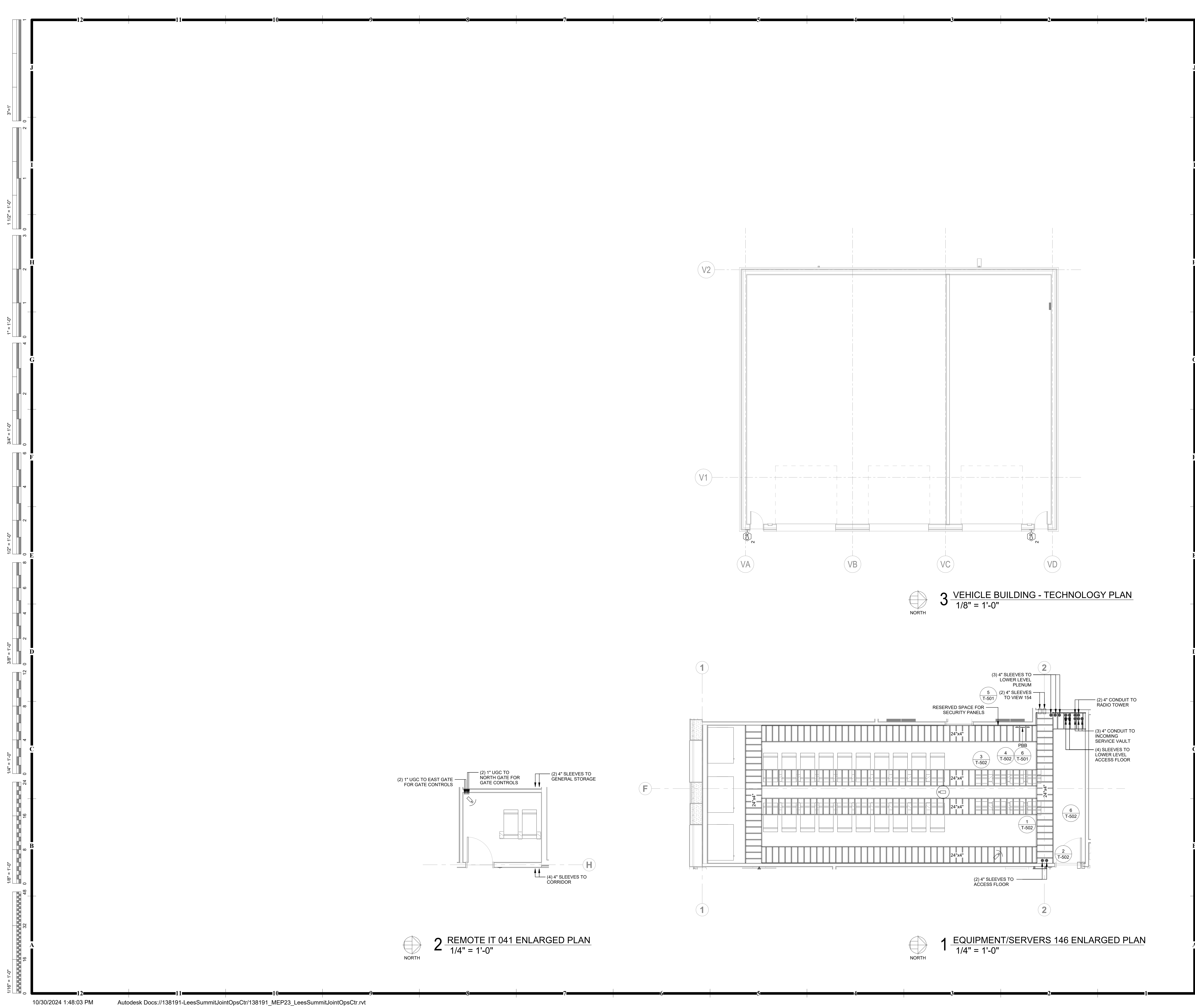


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**MAIN LEVEL - TECHNOLOGY
ALTERNATE PLAN**



GENERAL NOTES:
1. REFER TO SHEET TG001 FOR GENERAL TECHNOLOGY NOTES.

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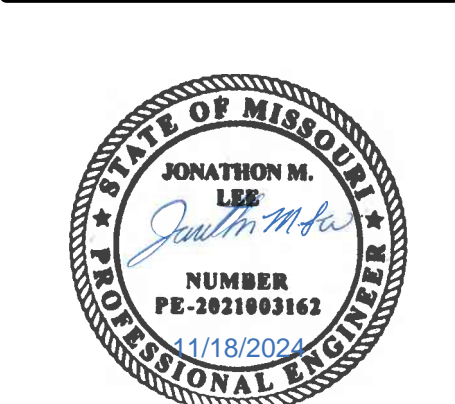
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ENLARGED TECHNOLOGY PLANS

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3 ADDENDUM #3 11/18/2024



T-502

