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*PERSPECTIVE VIEW SHOWN FOR ILLUSTRATIVE PURPOSES ONLY

CONCORD TOWNSHIP FIRE STATION #2

DESIGN DEVELOPMENT

CONCORD TOWNSHIP FIRE DEPARTMENT

10154 PROUTY RD
CONCORD TWP, OH 44077

LEMAY ERICKSON WILLCOX ARCHITECTS

11250 ROGER BACON DRIVE
SUITE 16
RESTON, VIRGINIA 20190
703-956-5600

PROJECT DESIGN TEAM

PROJECT DESIGN TEAM				LOCATION PLAN
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CONCORD TOWNSHIP FIRE STATION #2

10154 PROUTY RD
CONCORD TWP, OH 44077

LEMAY ERICKSON WILLCOX ARCHITECTS

Ph: (703) 956-5600

Reston, Virginia 20190

11250 Roger Bacon Drive, Ste. 16

SEAL

DATE OF RECORD

COVER SHEET

G0.01

PROJECT NO. LEWA-21820

CONCORD FIRE STATION 2
10154 PROUTY RD
CONCORD, OH 44077

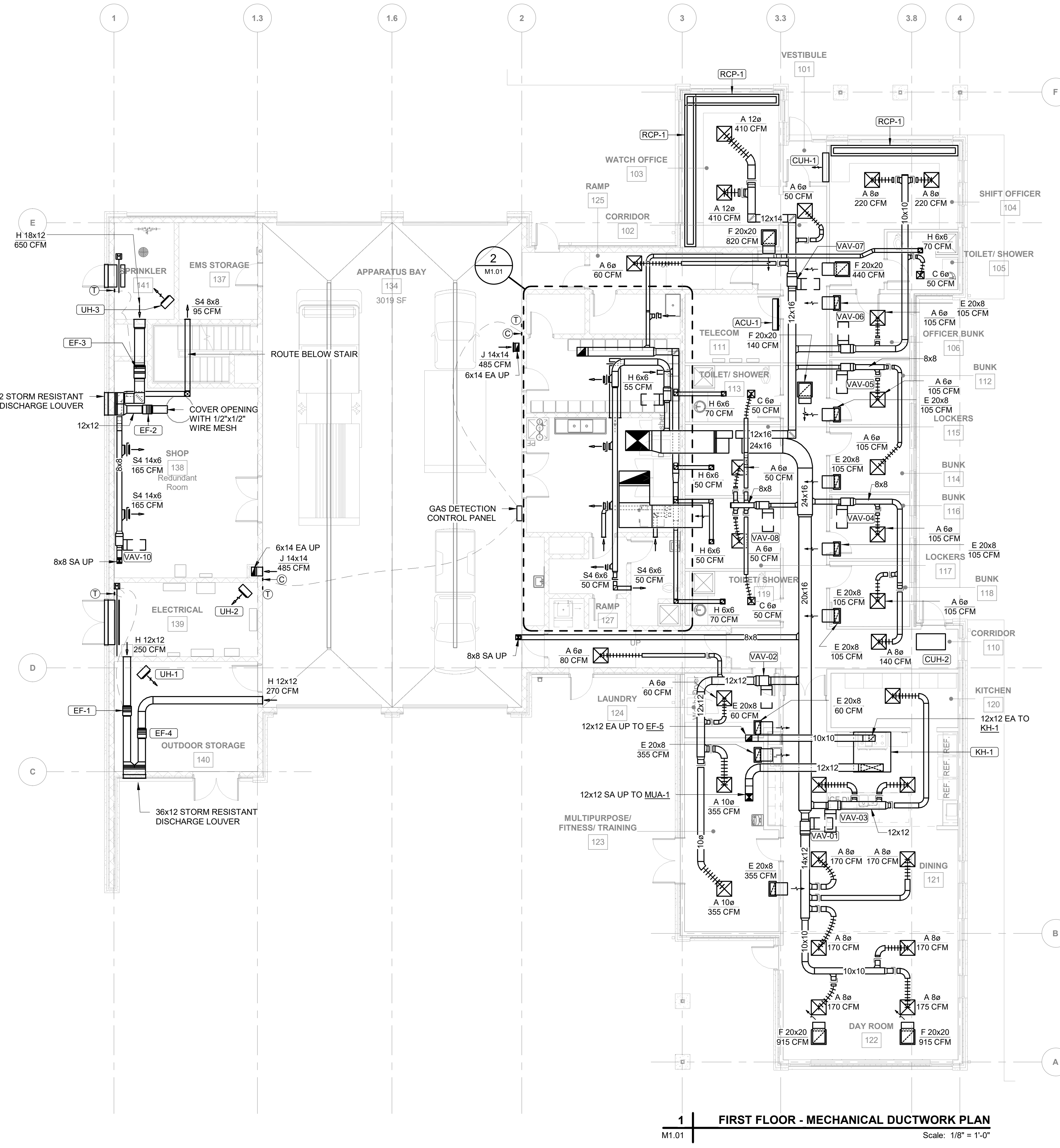
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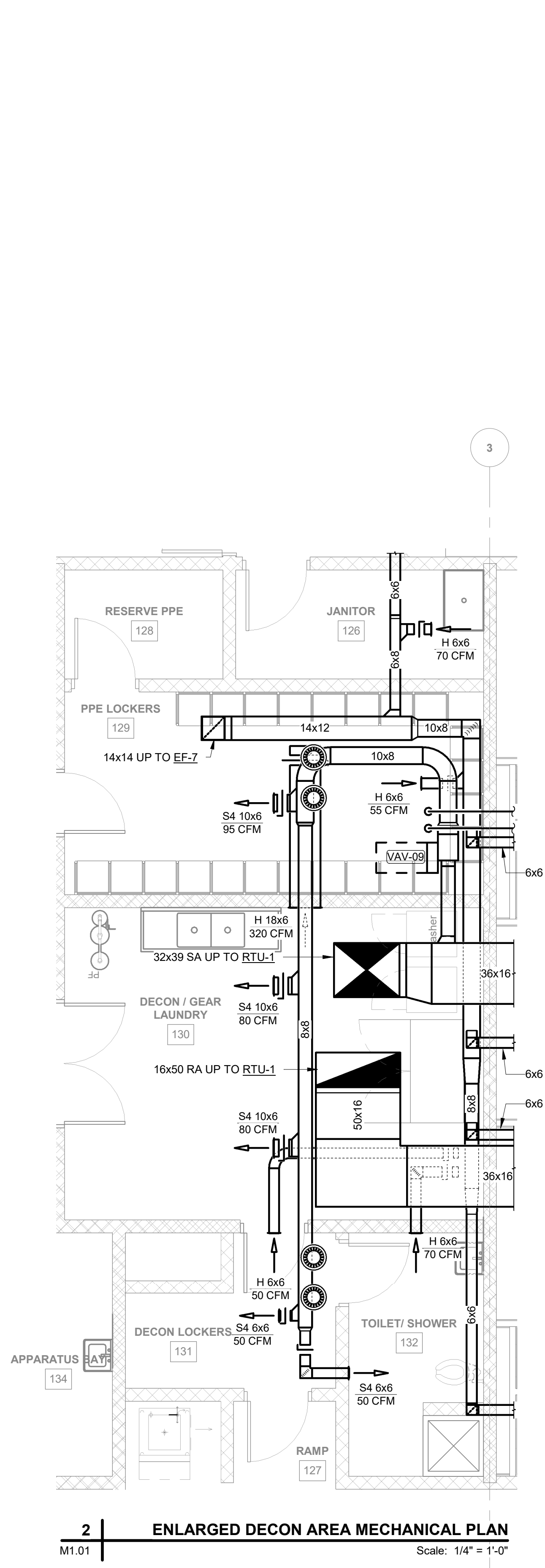
FIRST FLOOR - HVAC DUCTWORK PLAN

M1.01

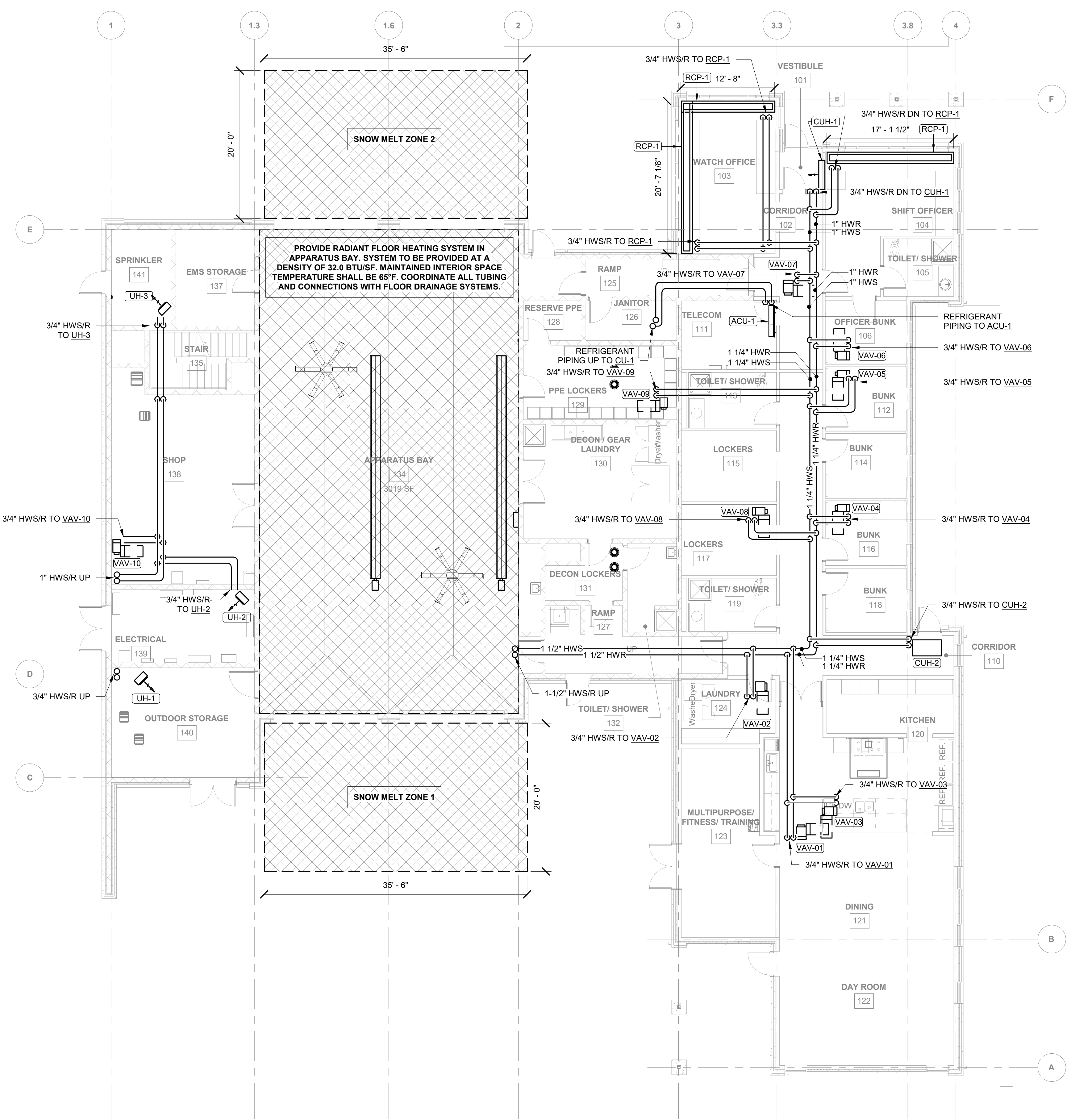
PROJECT NO. 00000000



1 | FIRST FLOOR - MECHANICAL DUCTWORK PLAN
M1.01 Scale: 1/8" = 1'-0"



2 | ENLARGED DECON AREA MECHANICAL PLAN
M1.01 Scale: 1/4" = 1'-0"



PROVIDE RADIANT FLOOR HEATING SYSTEM IN APPARATUS BAY. SYSTEM TO BE PROVIDED AT A DENSITY OF 32.0 BTU/SF. MAINTAINED INTERIOR SPACE TEMPERATURE SHALL BE 65°F. COORDINATE ALL TUBING AND CONNECTIONS WITH FLOOR DRAINAGE SYSTEMS.

1 | FIRST FLOOR - MECHANICAL PIPING PLAN
M1.02 | Scale: 1/8" = 1'-0"

CONCORD FIRE STATION 2
10154 PROUTY RD
CONCORD, OH 44077

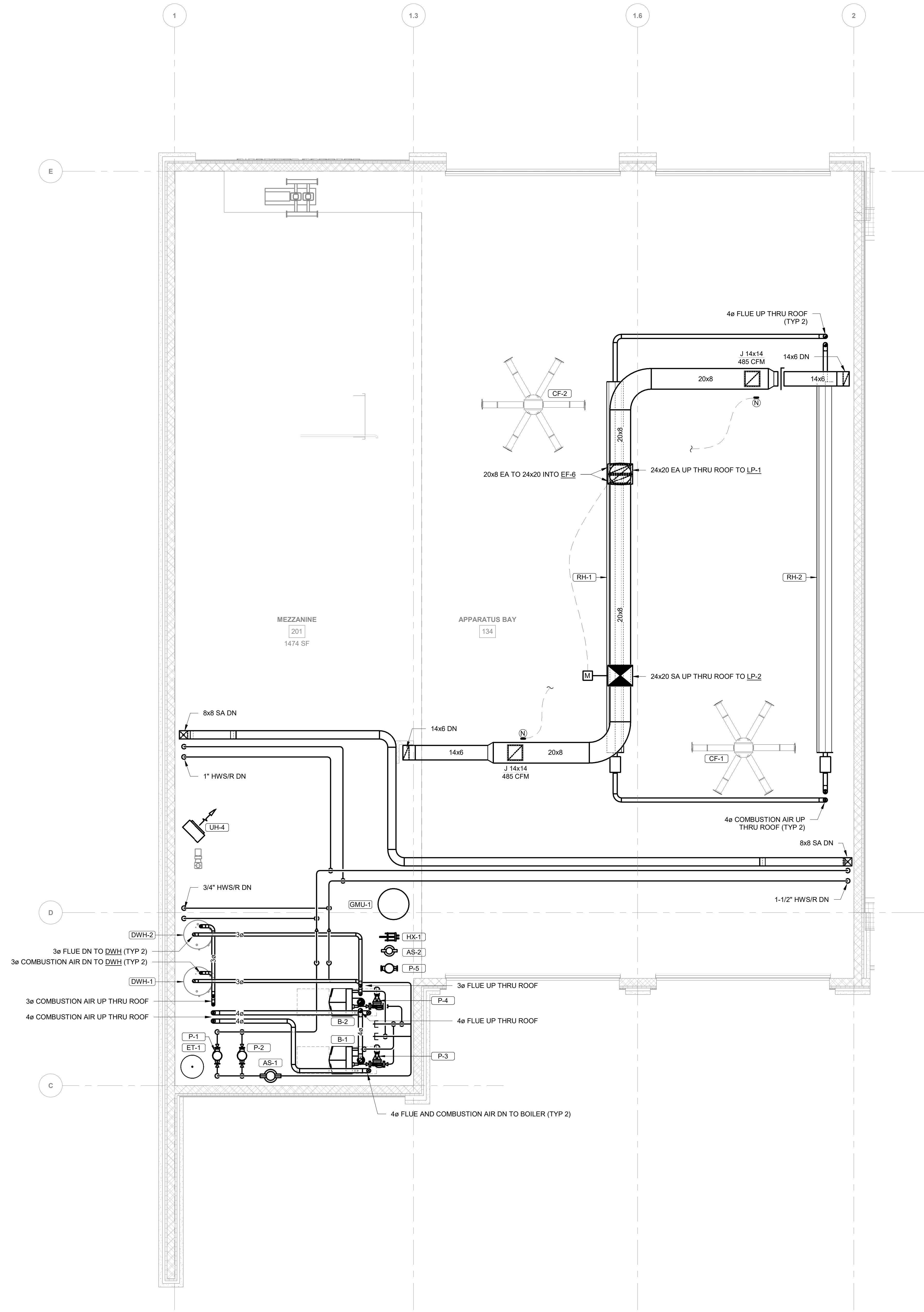
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FIRST FLOOR - HVAC PIPING PLAN

M1.02

PROJECT NO. 00000000

CONCORD FIRE STATION 2
10154 PROUTY RD
CONCORD, OH 44077



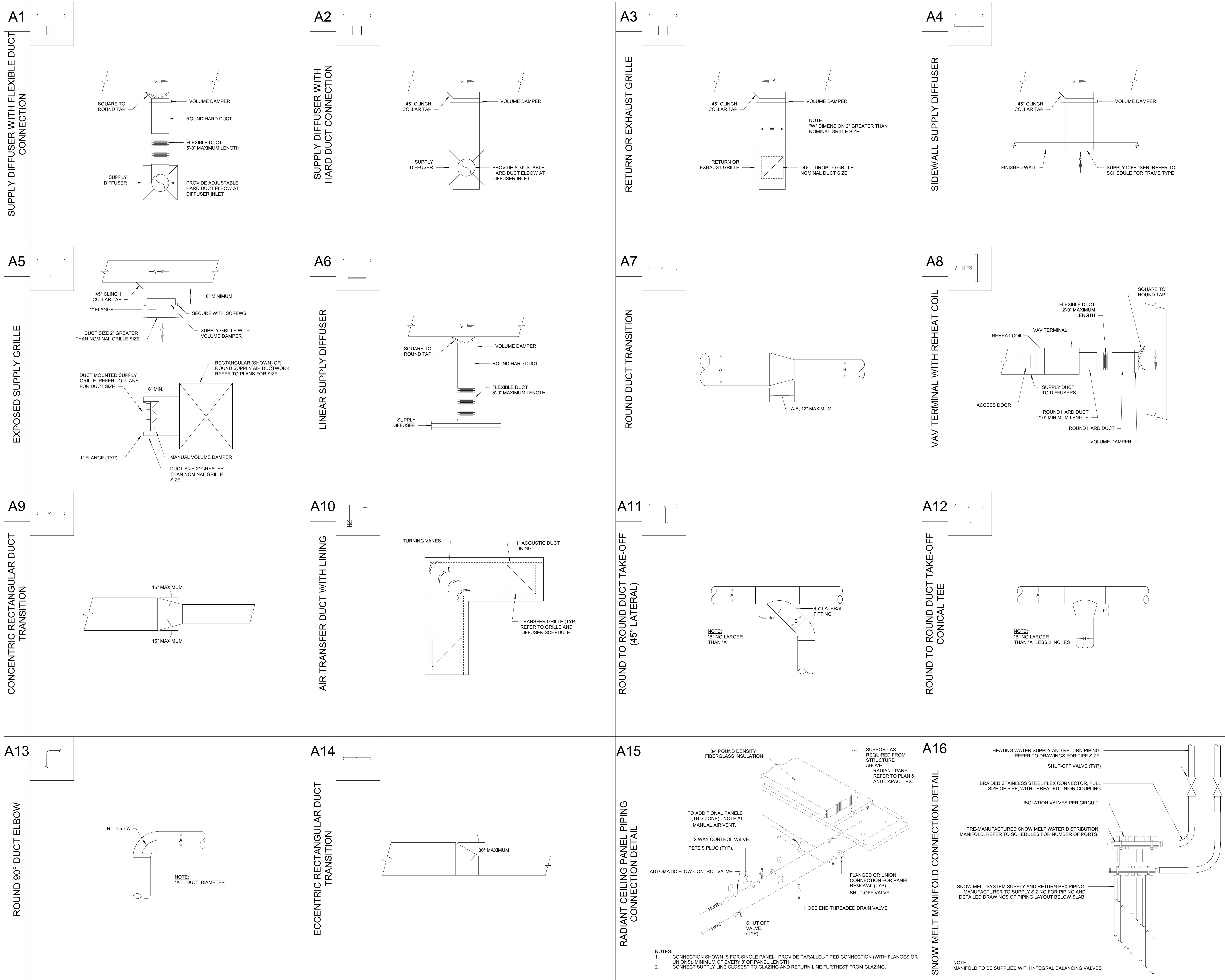
2 | MEZZANINE - MECHANICAL PLAN
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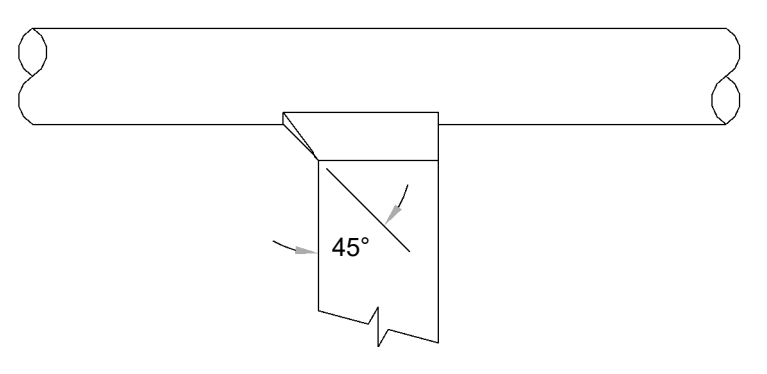
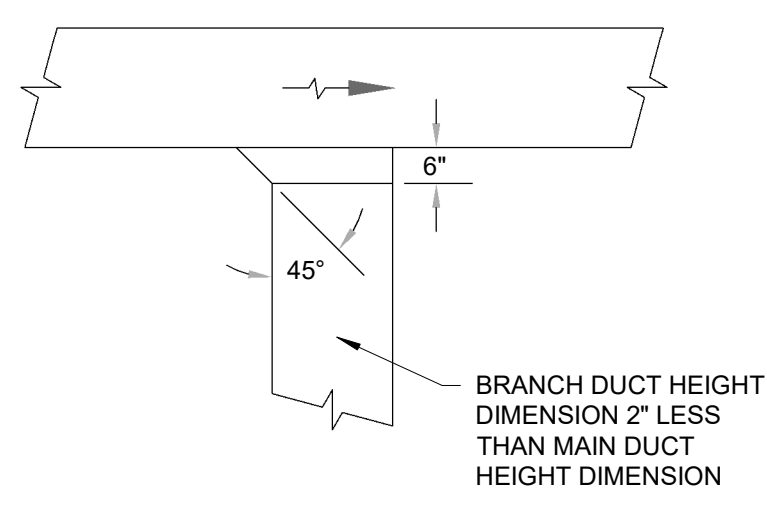
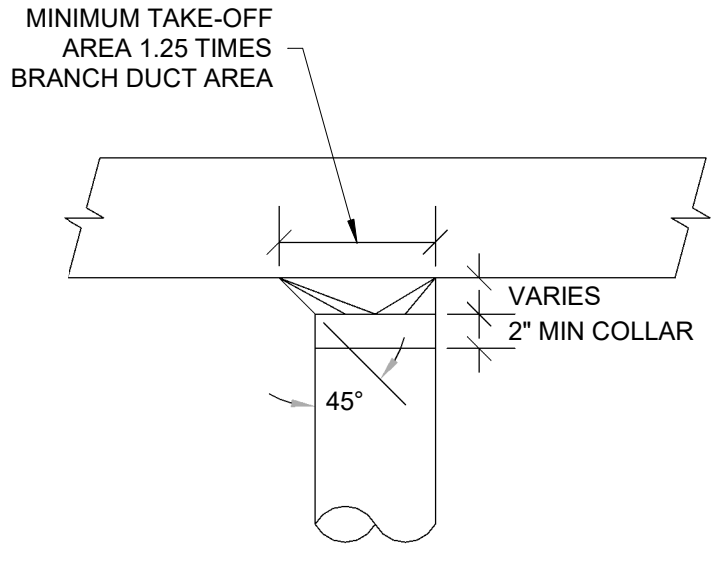
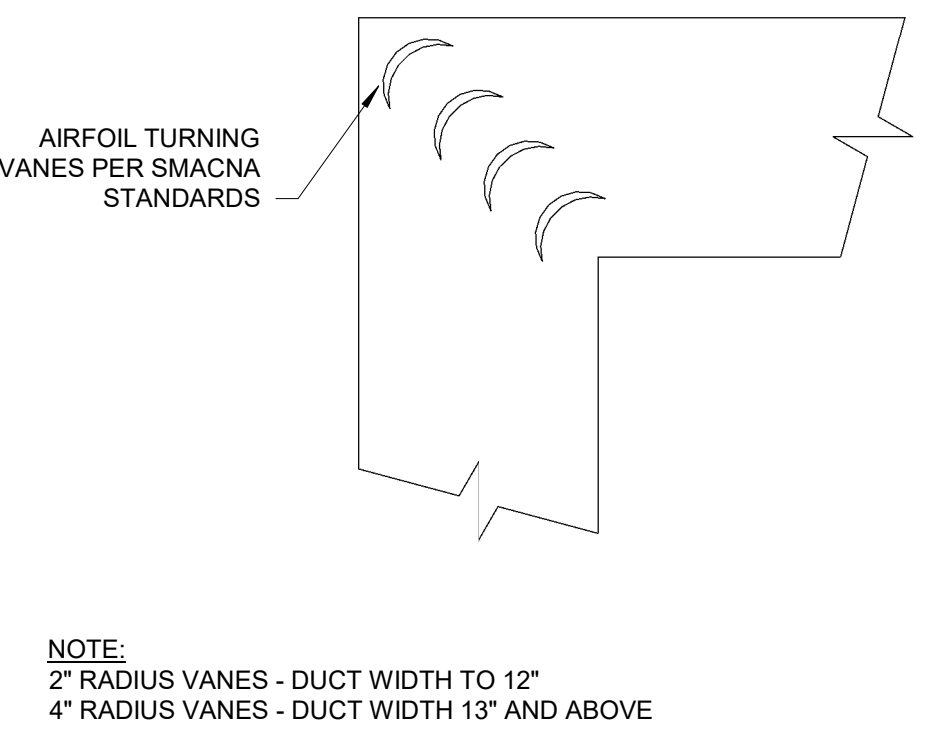
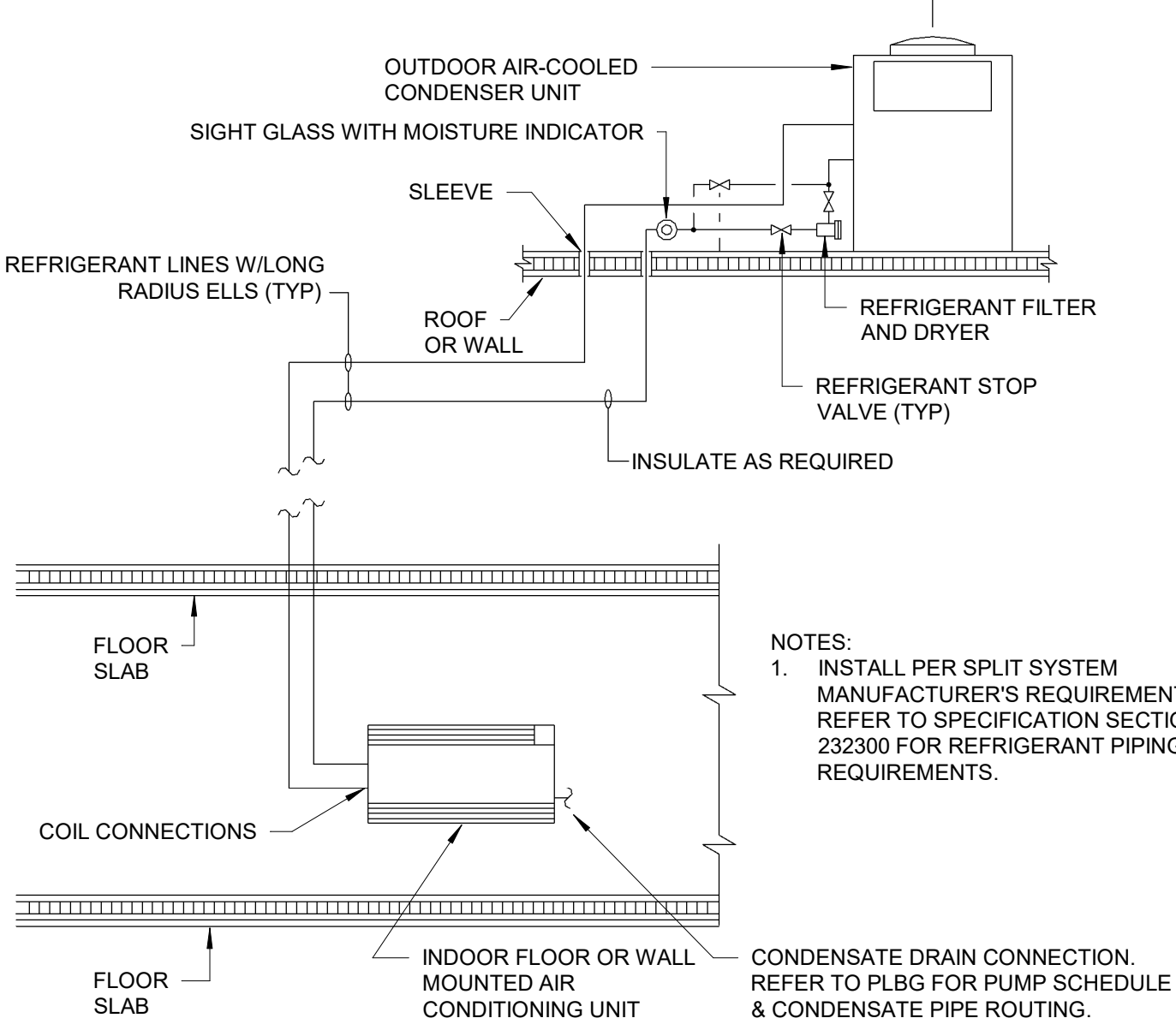
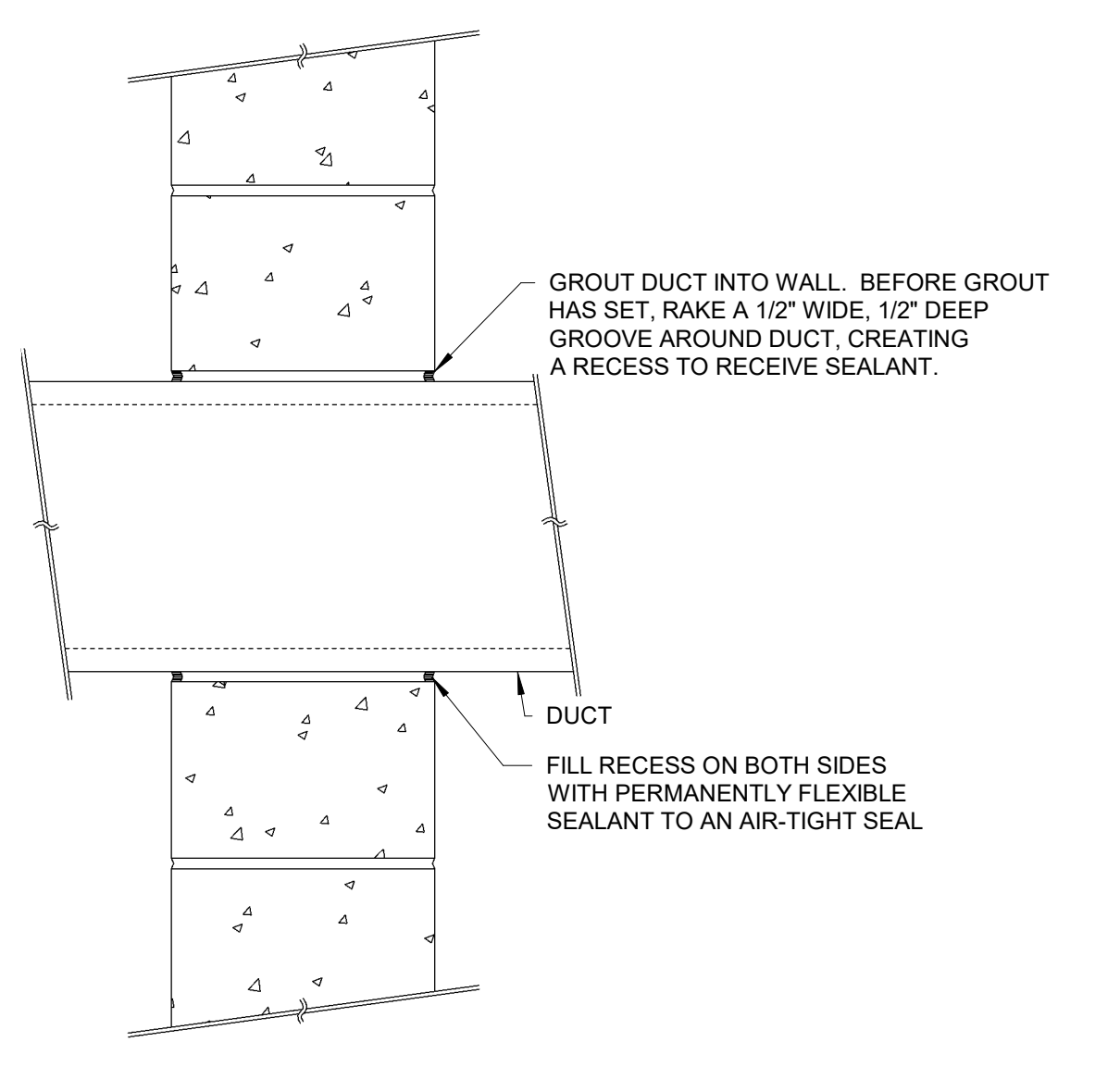
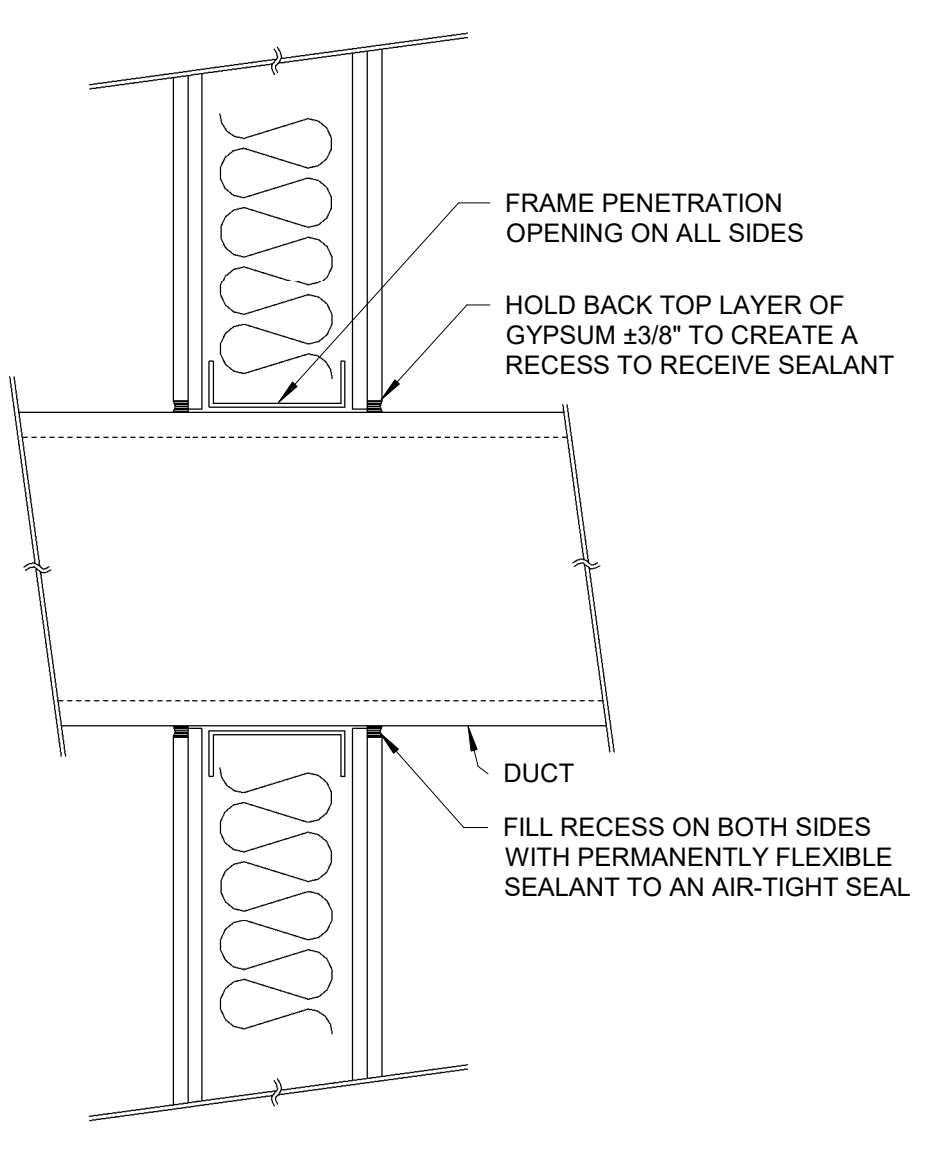
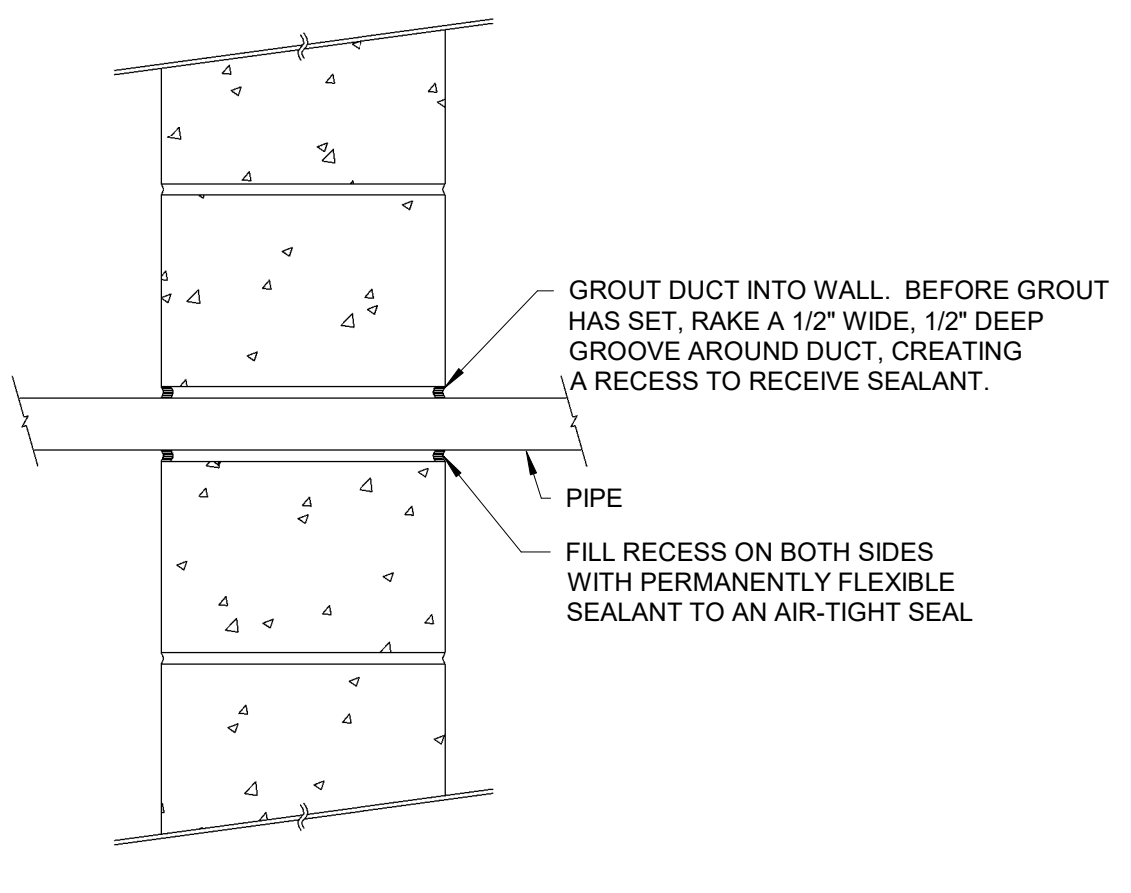
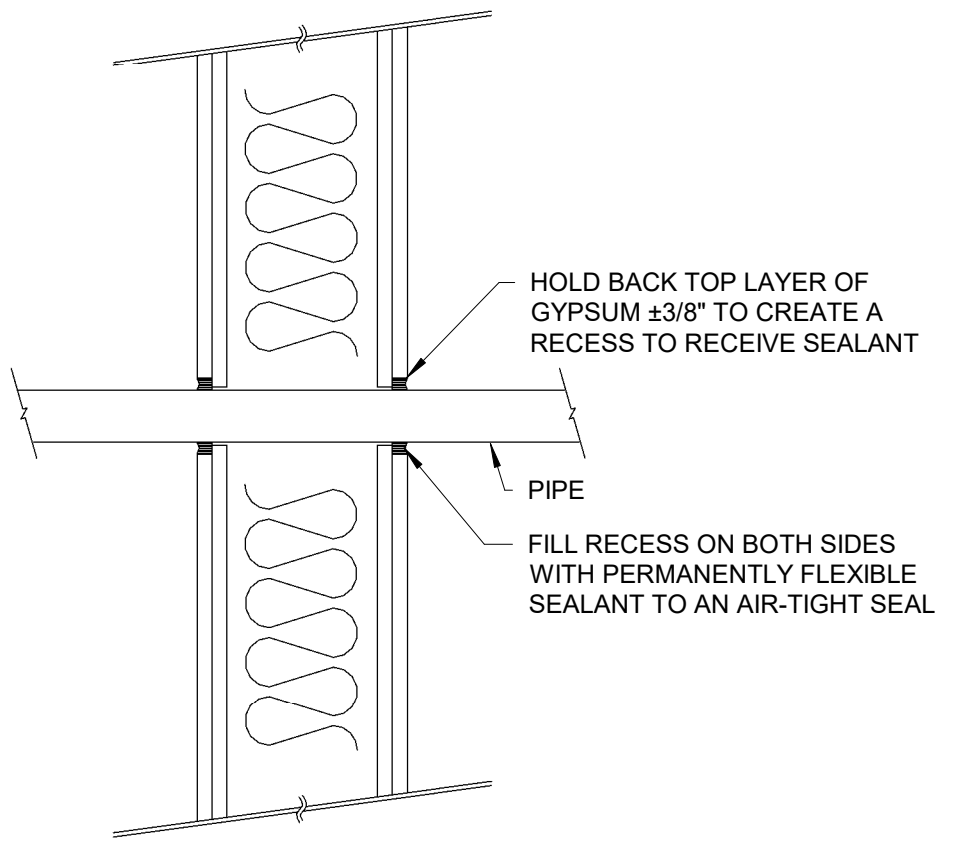
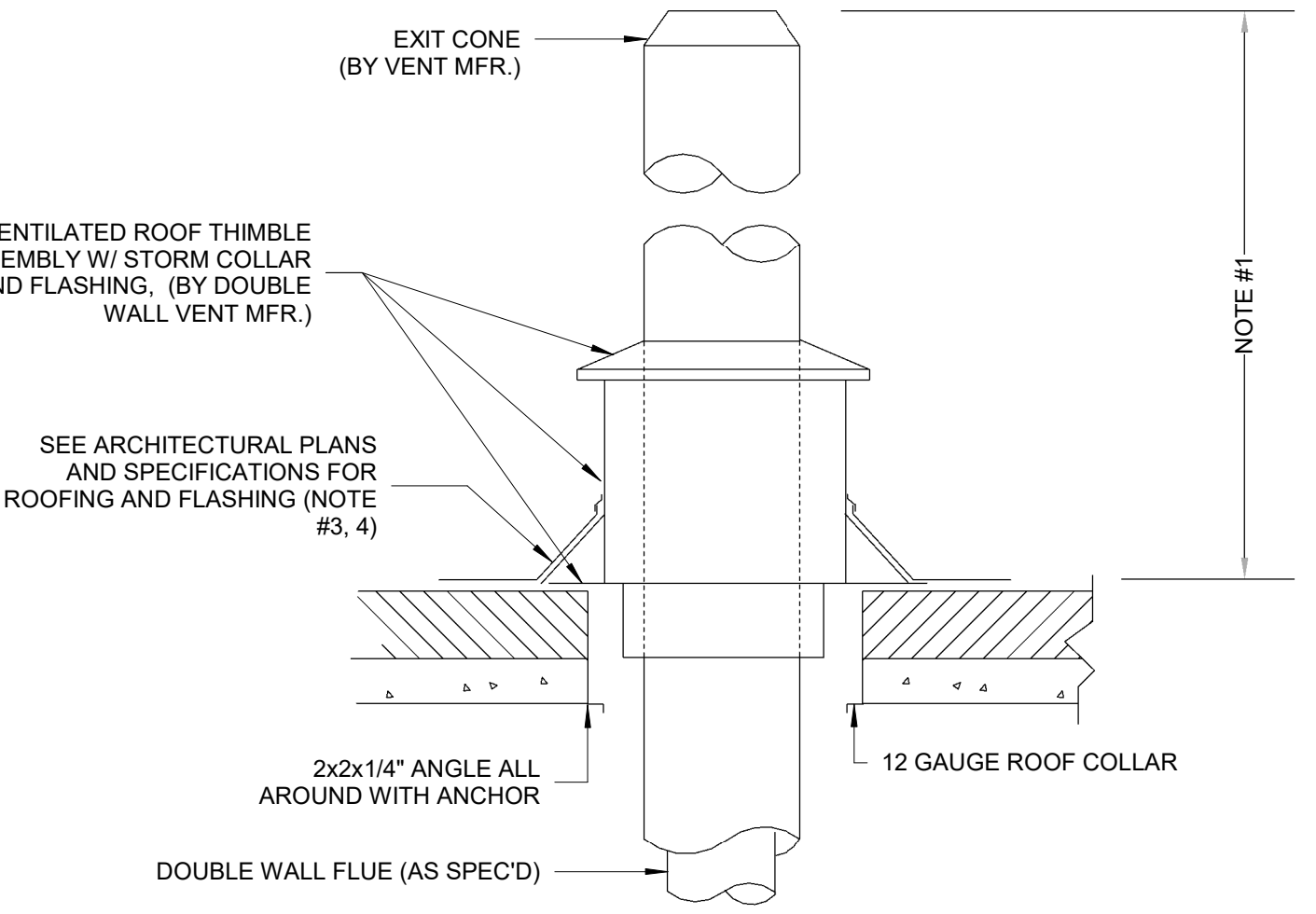
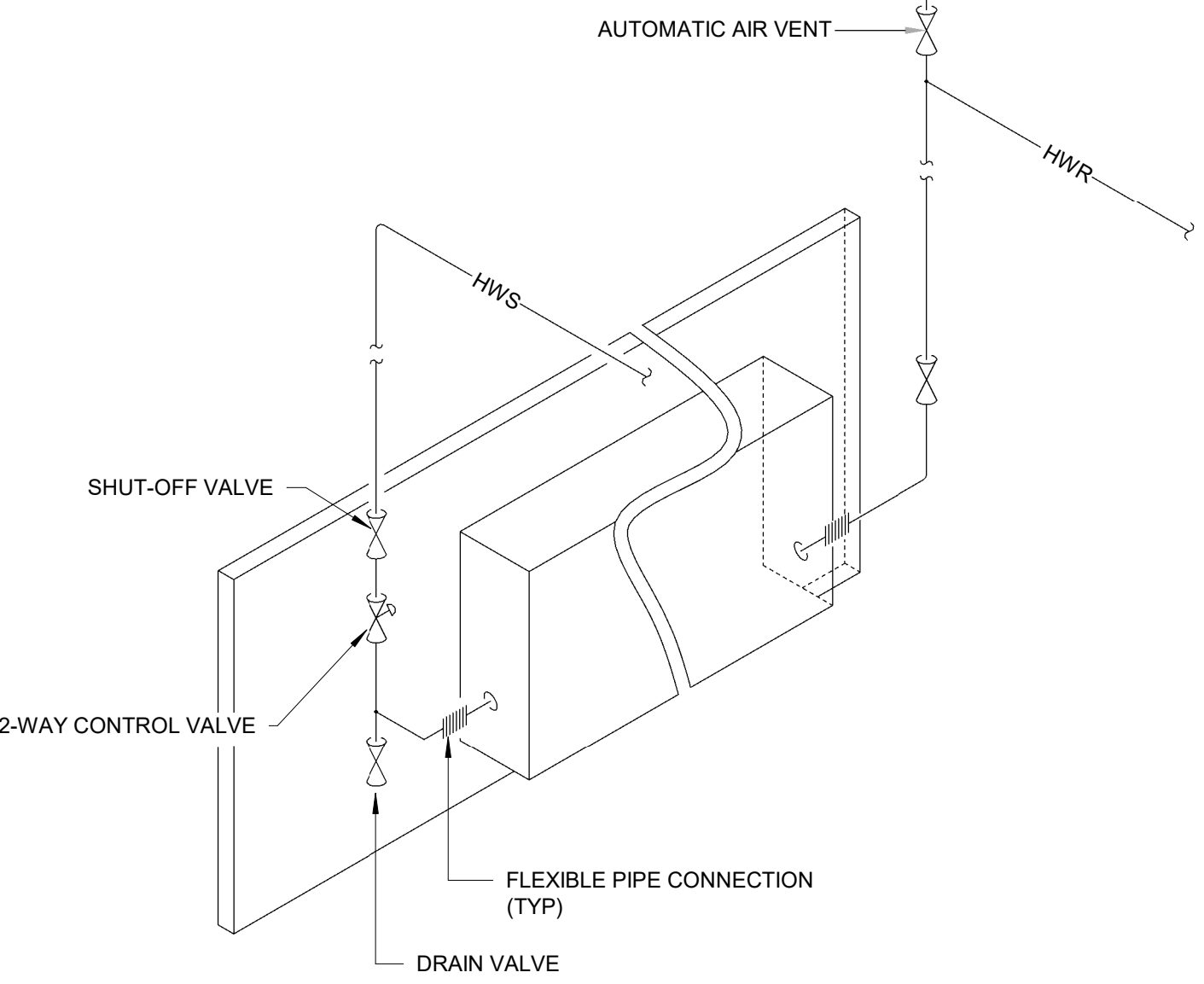
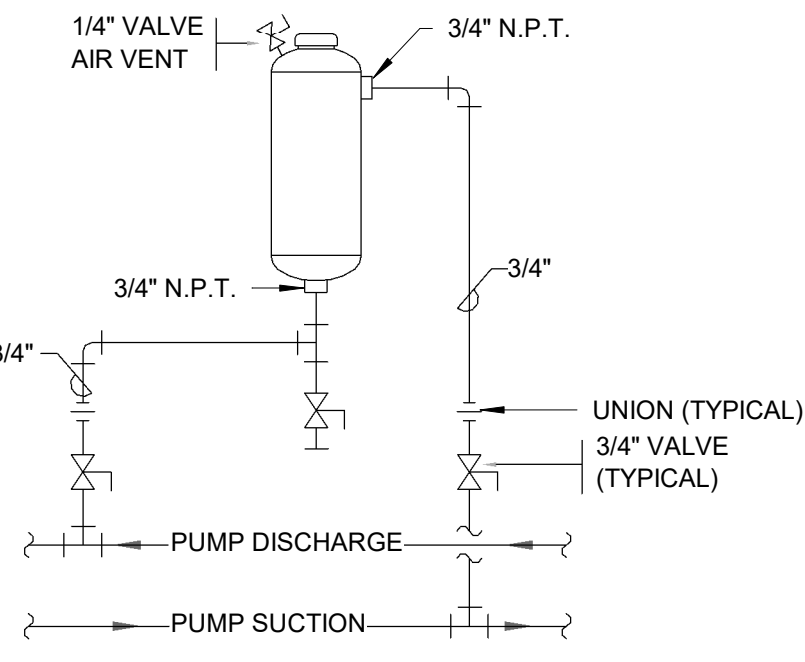
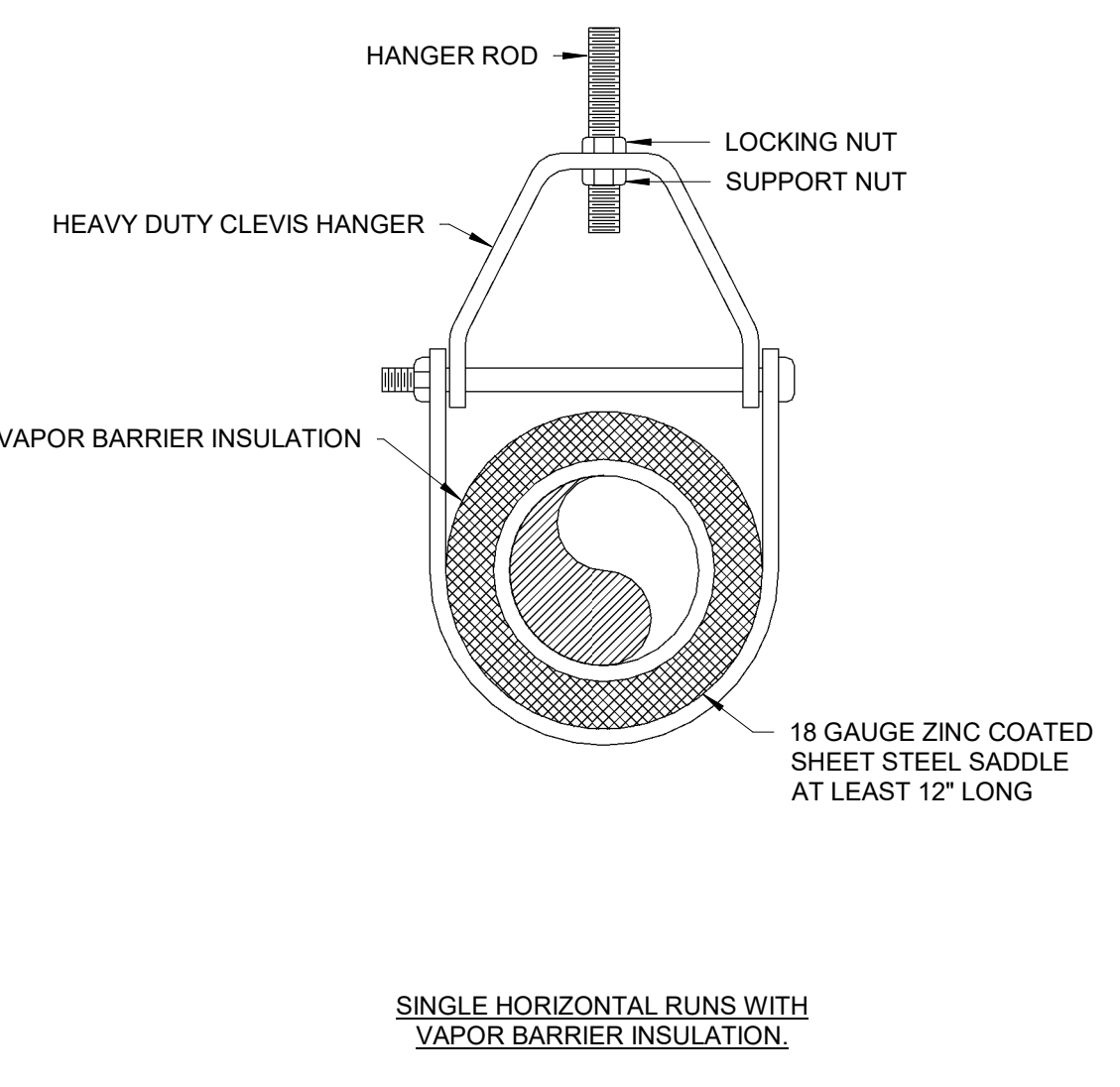
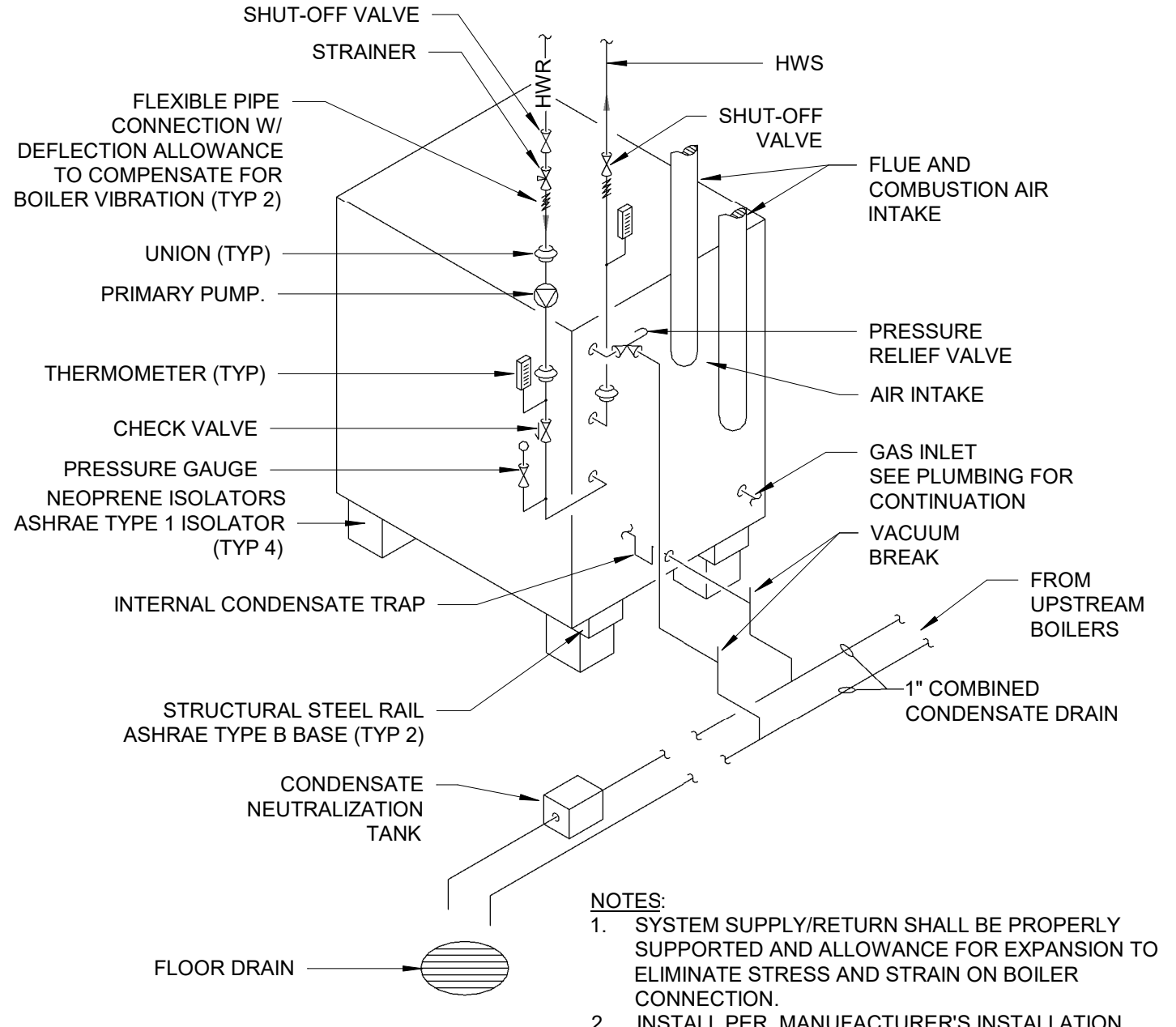
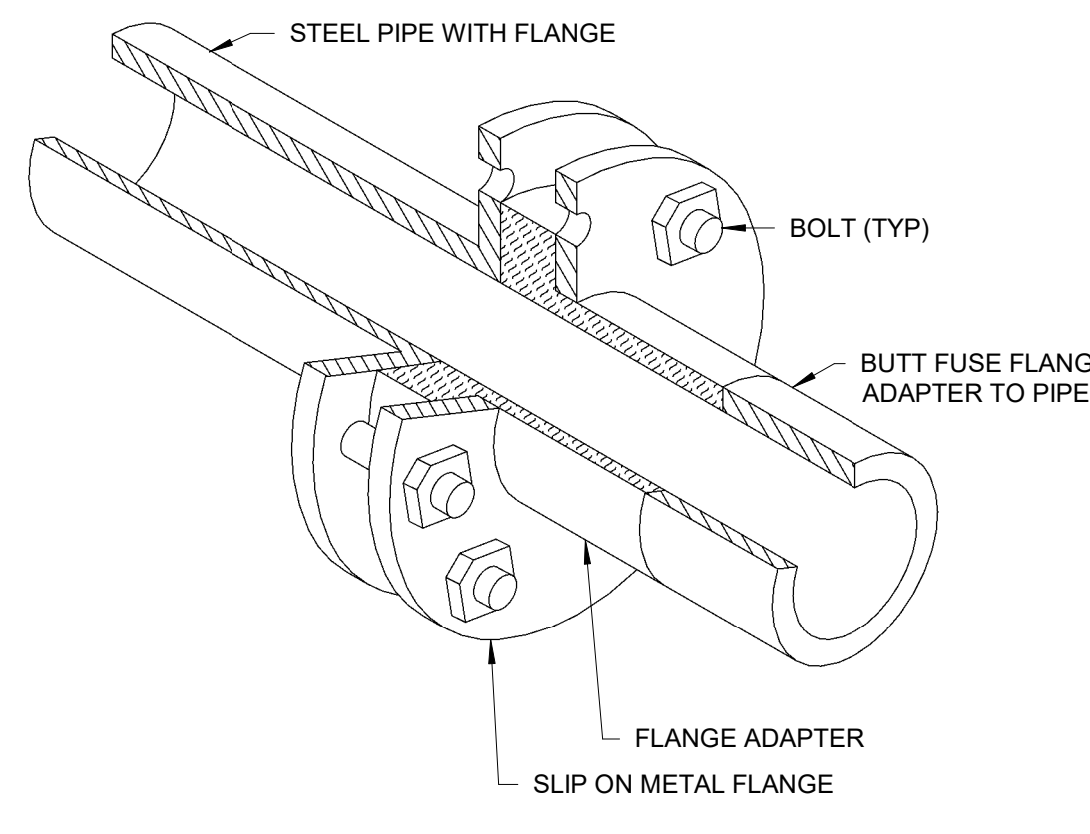
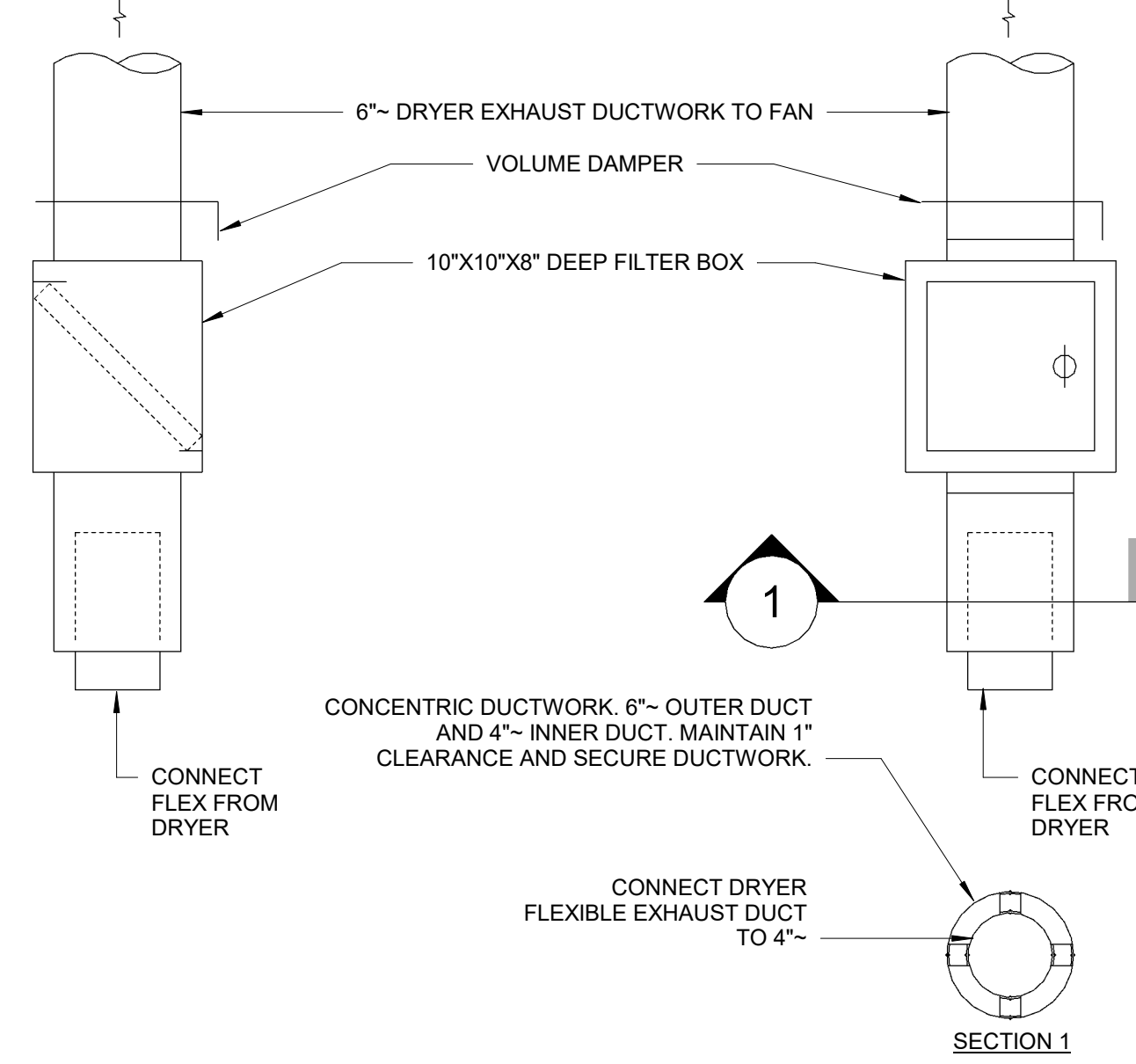
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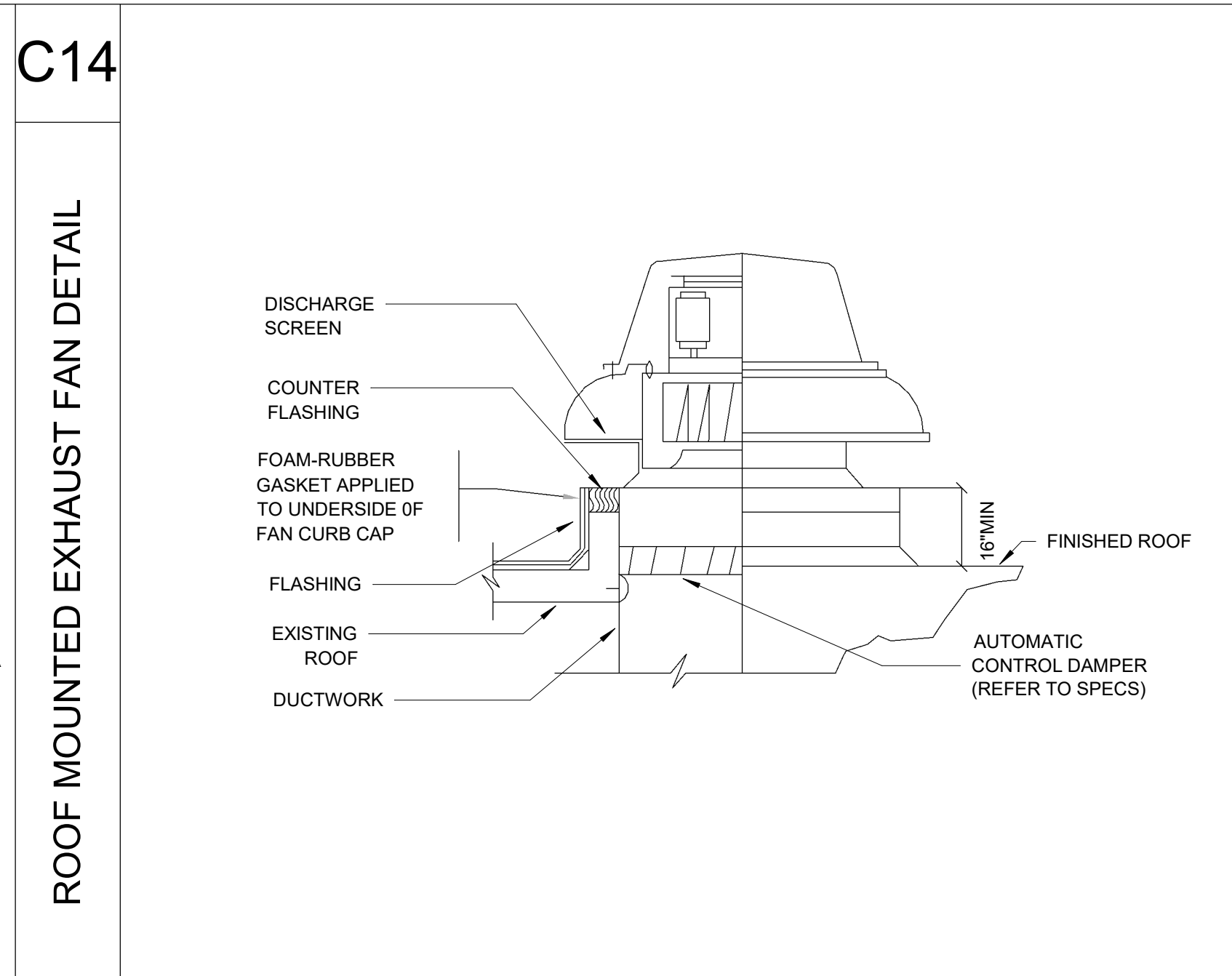
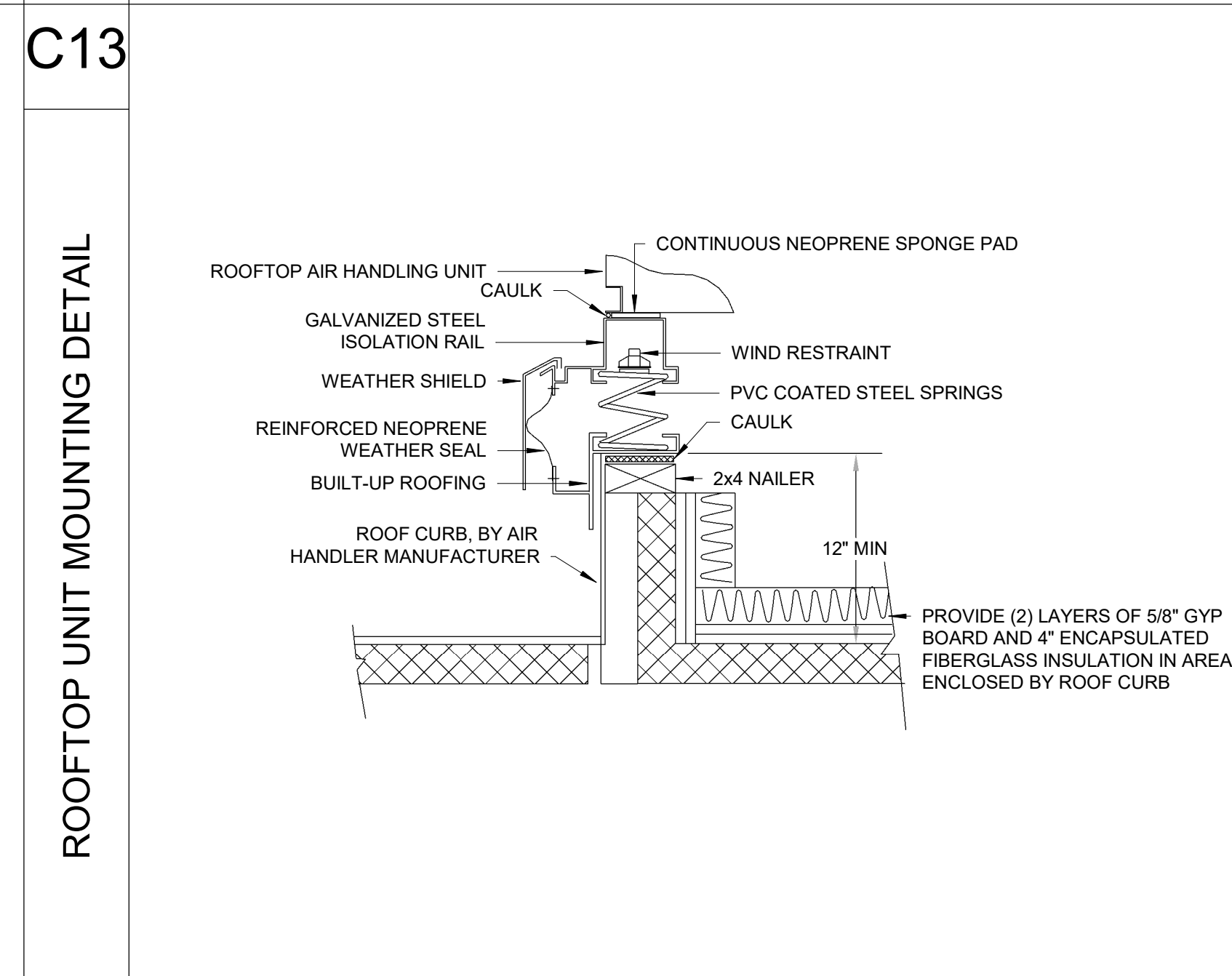
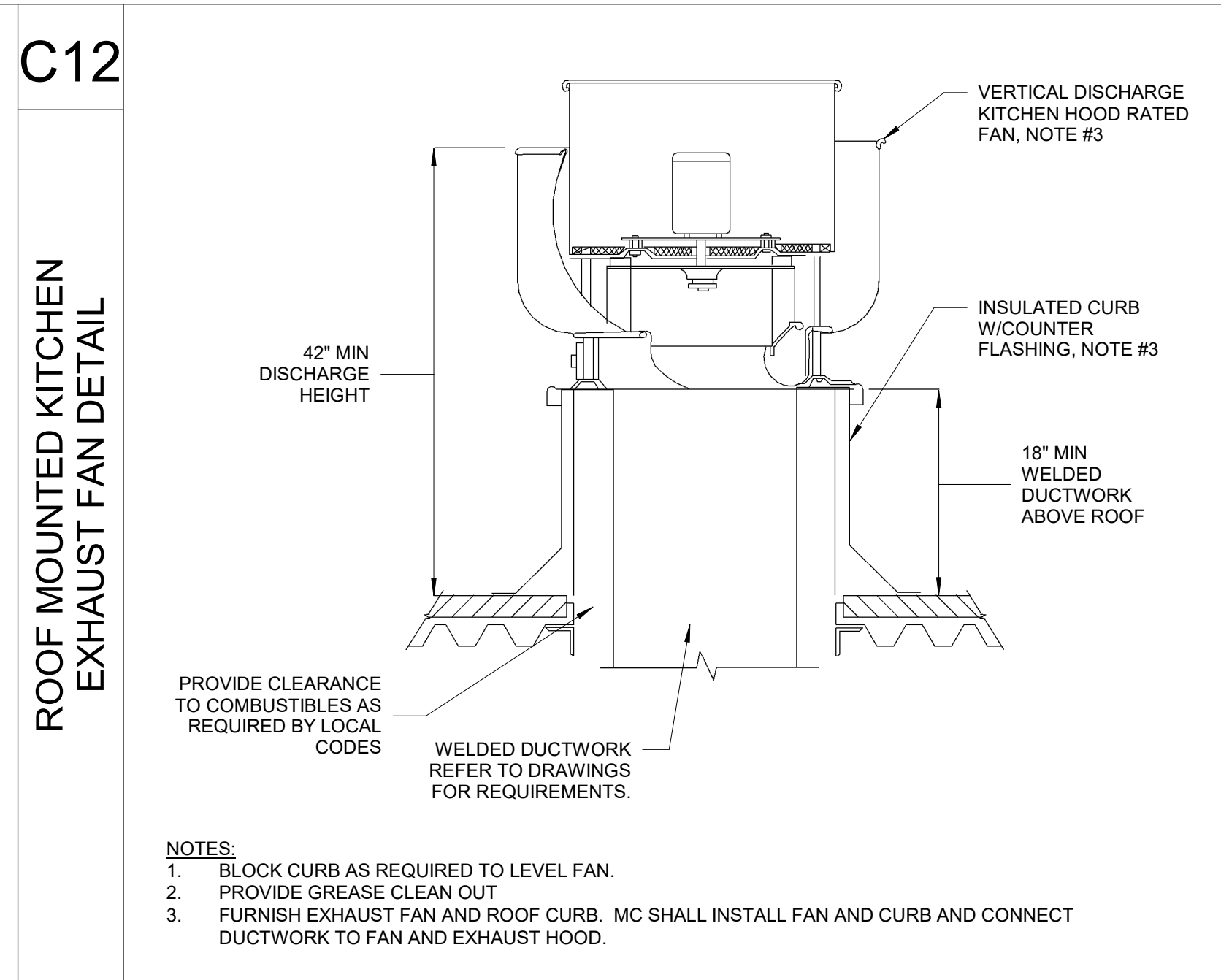
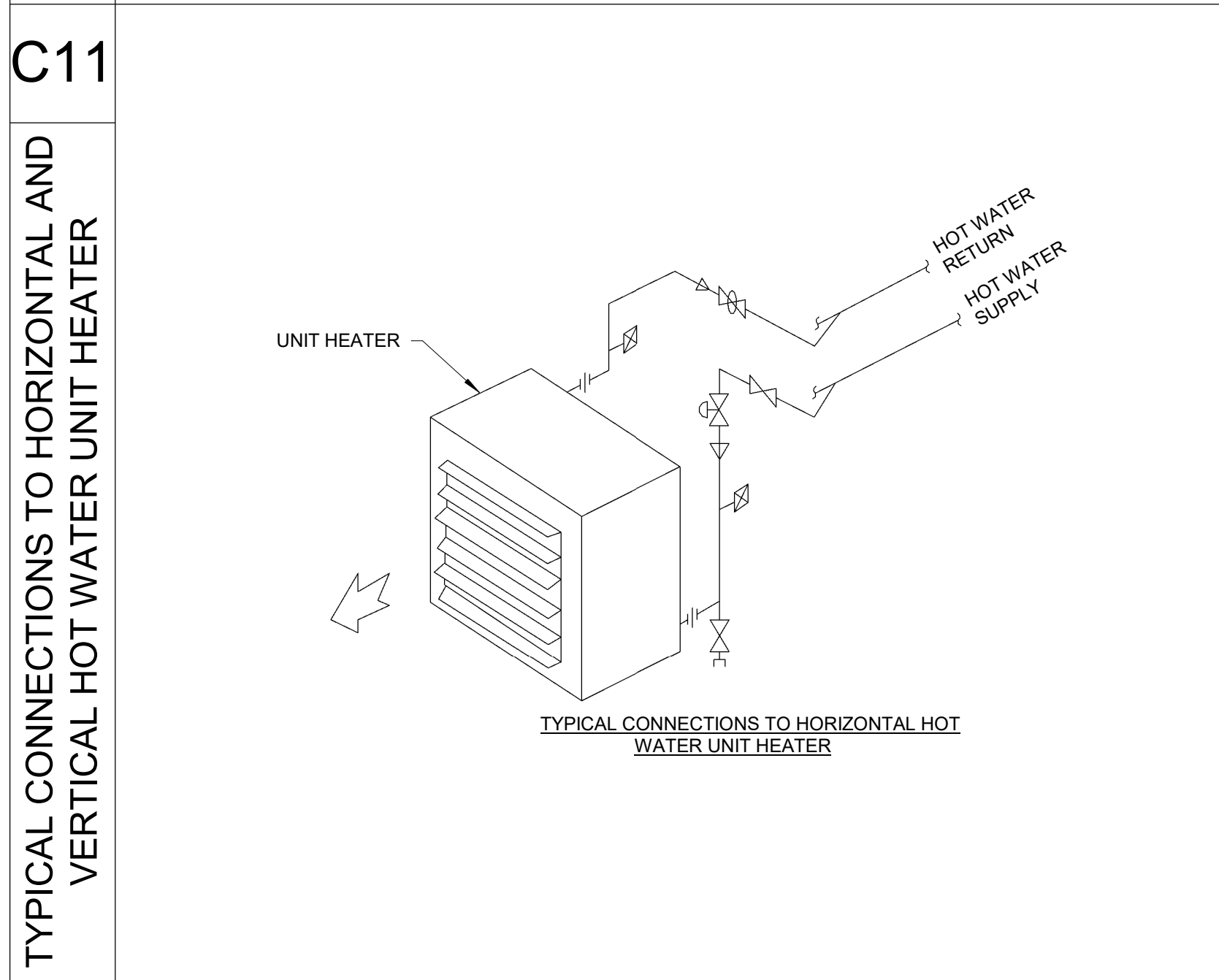
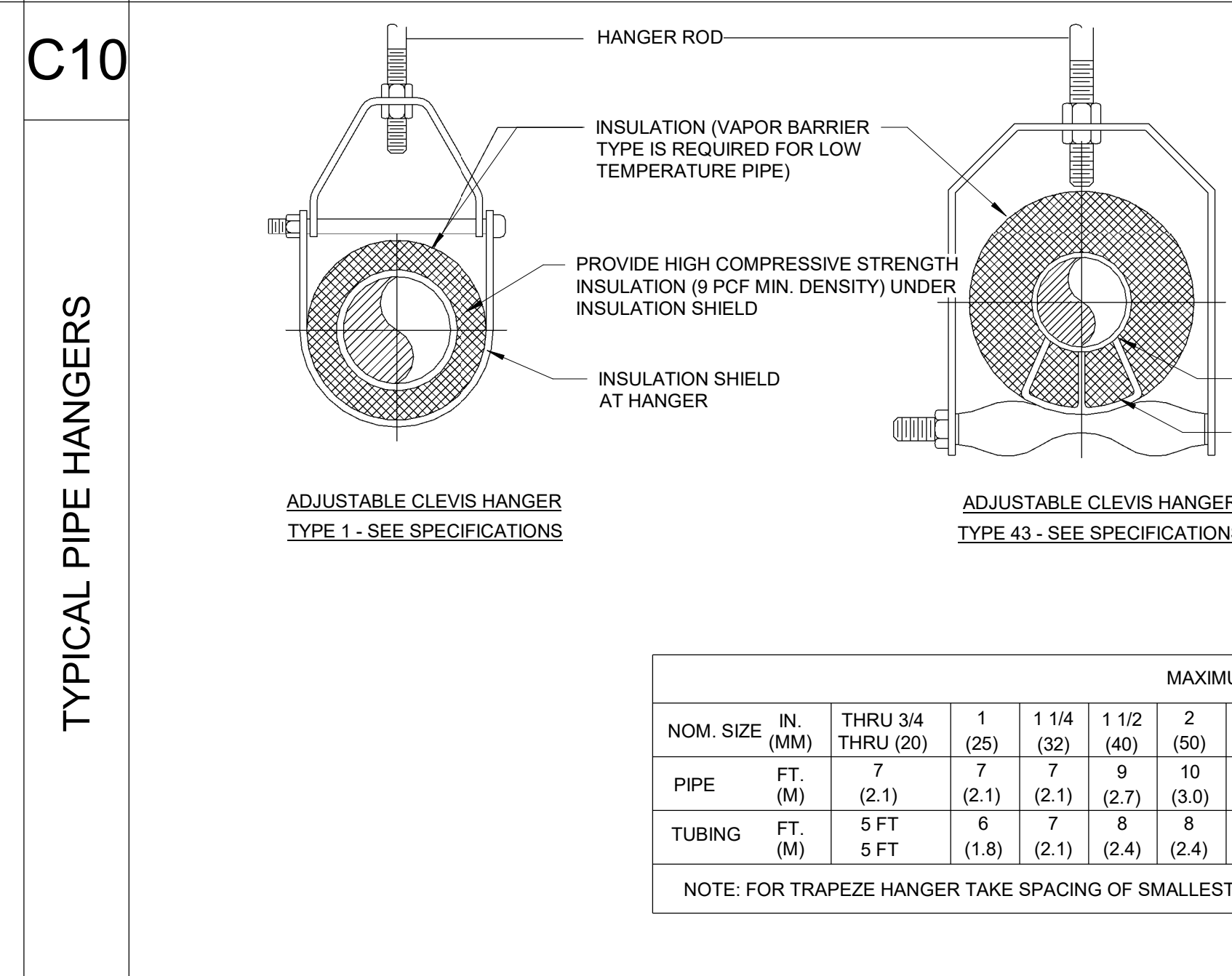
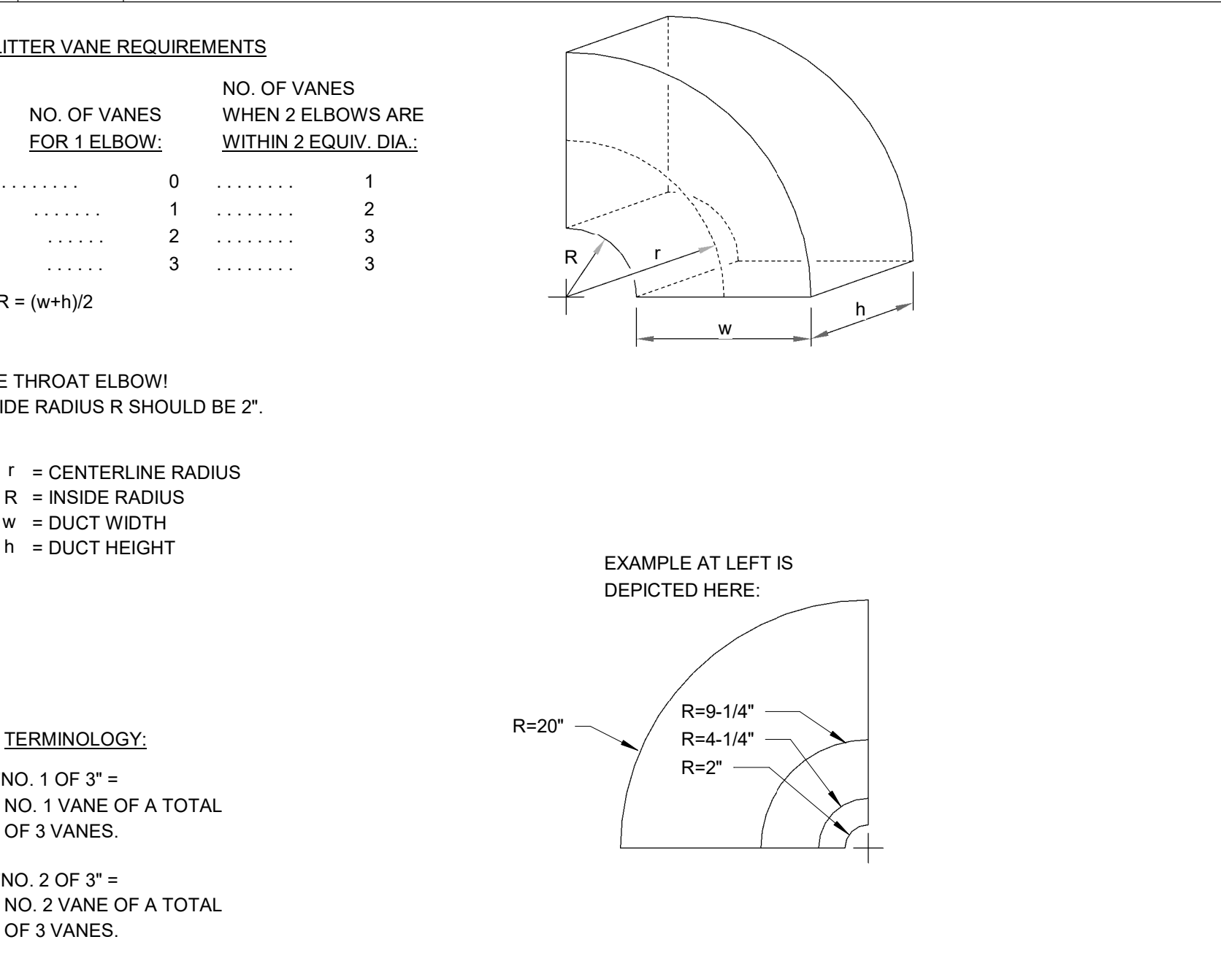
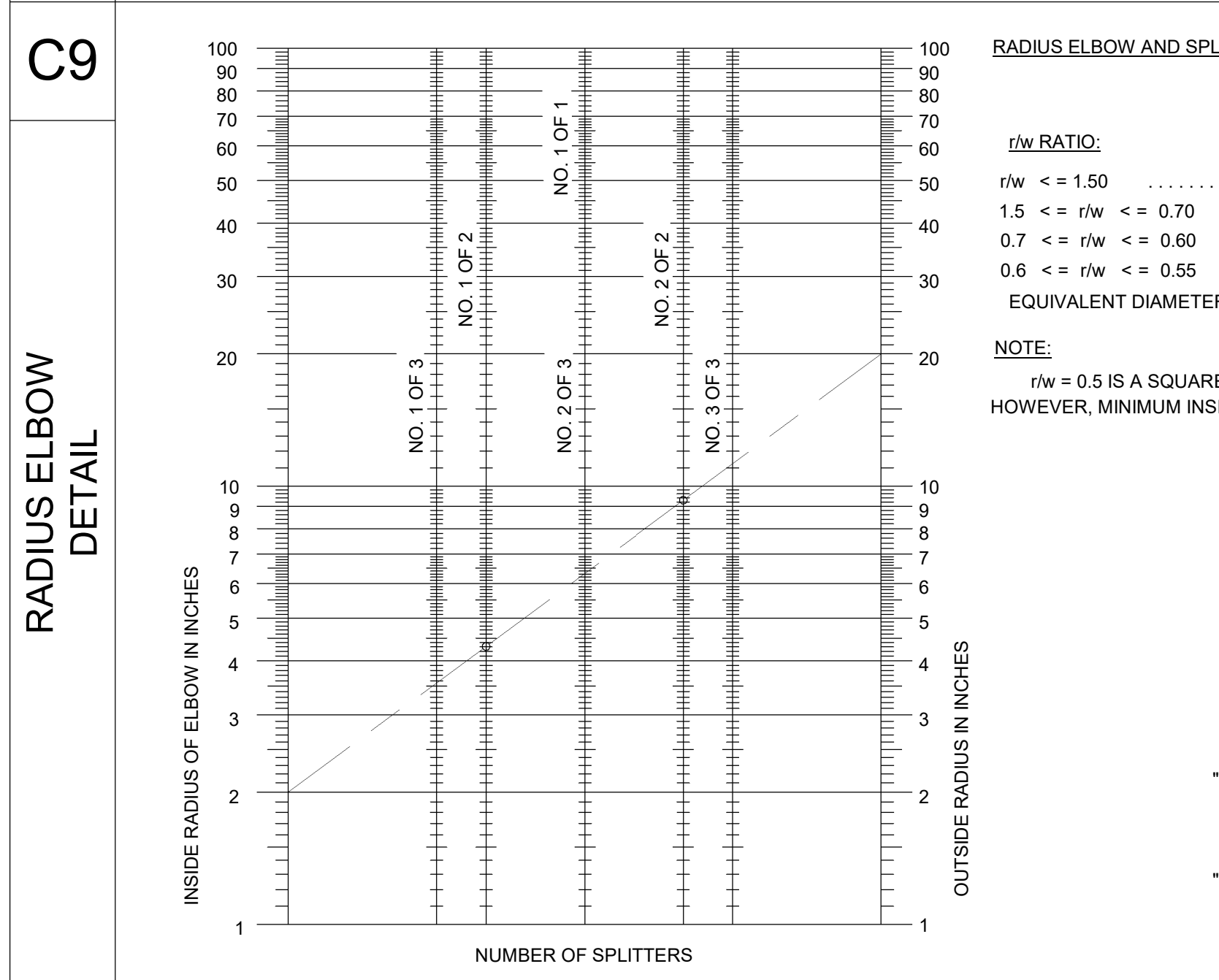
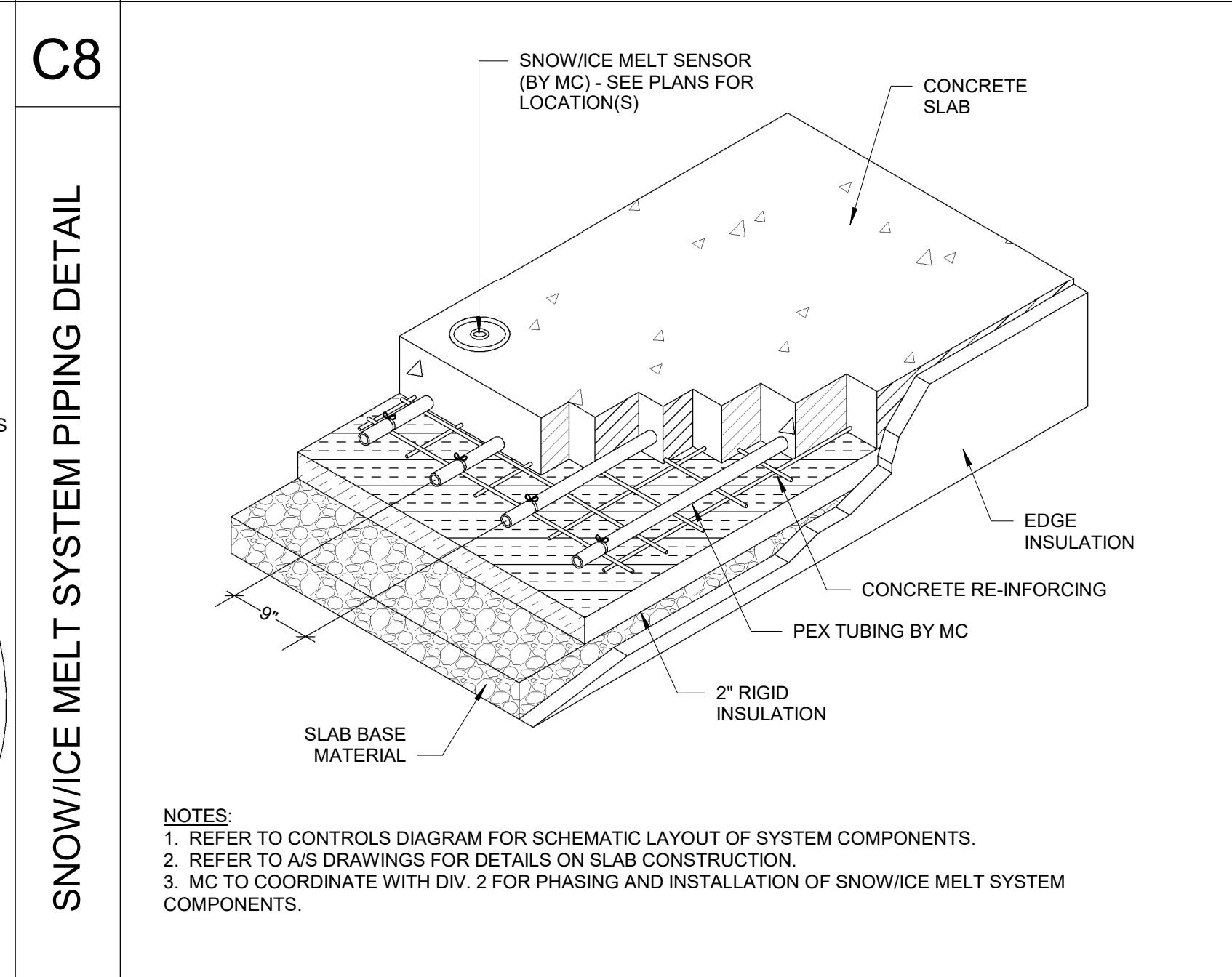
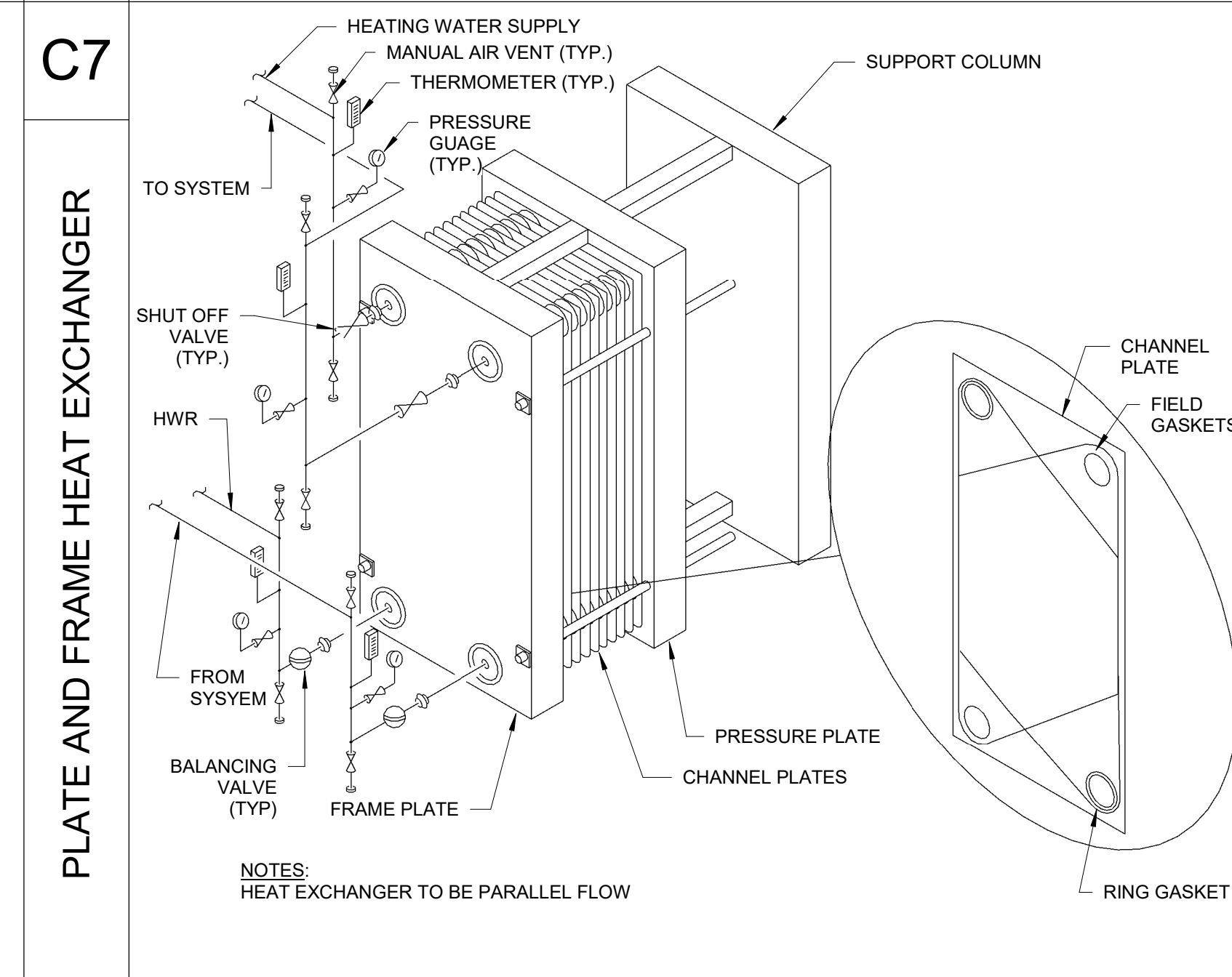
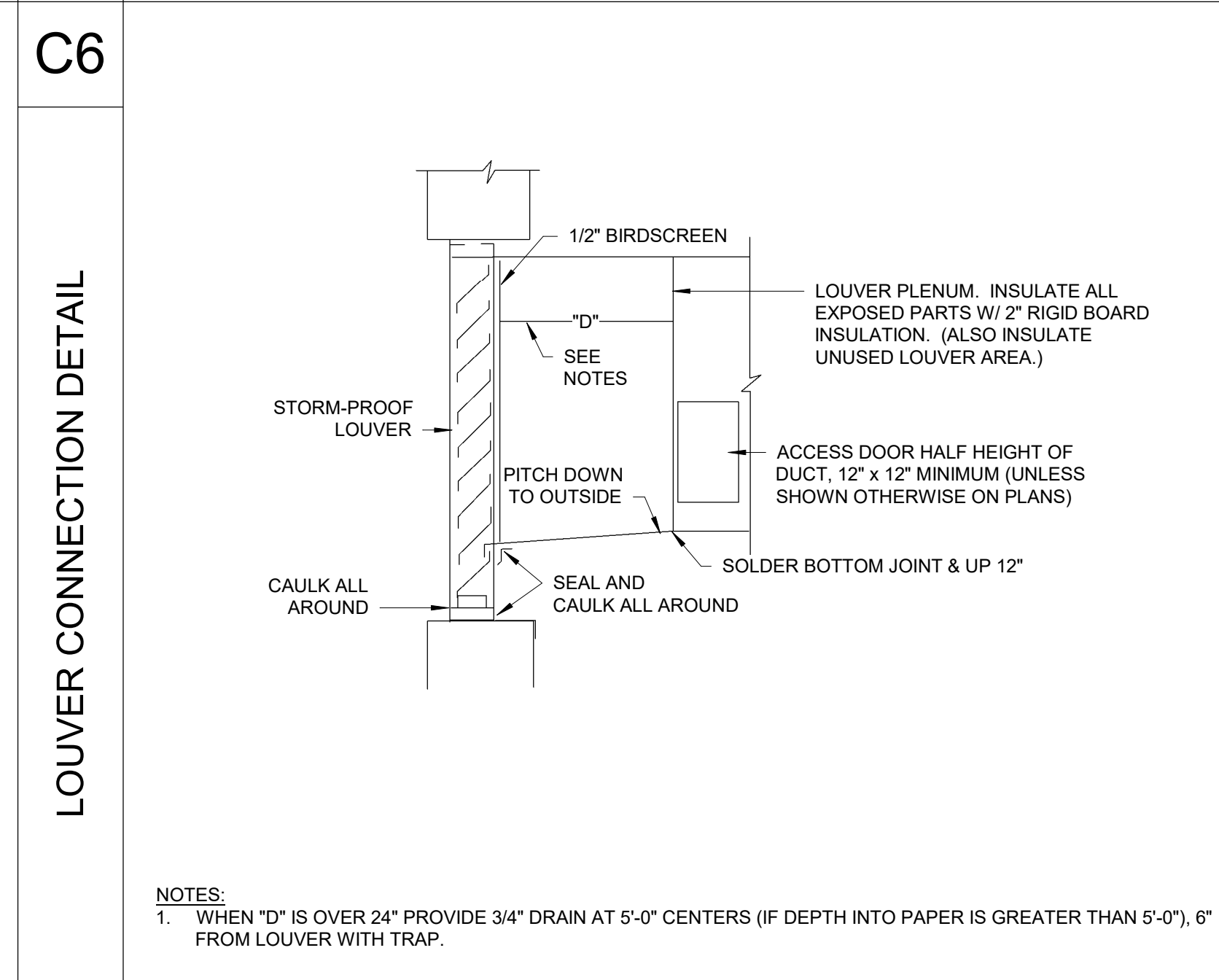
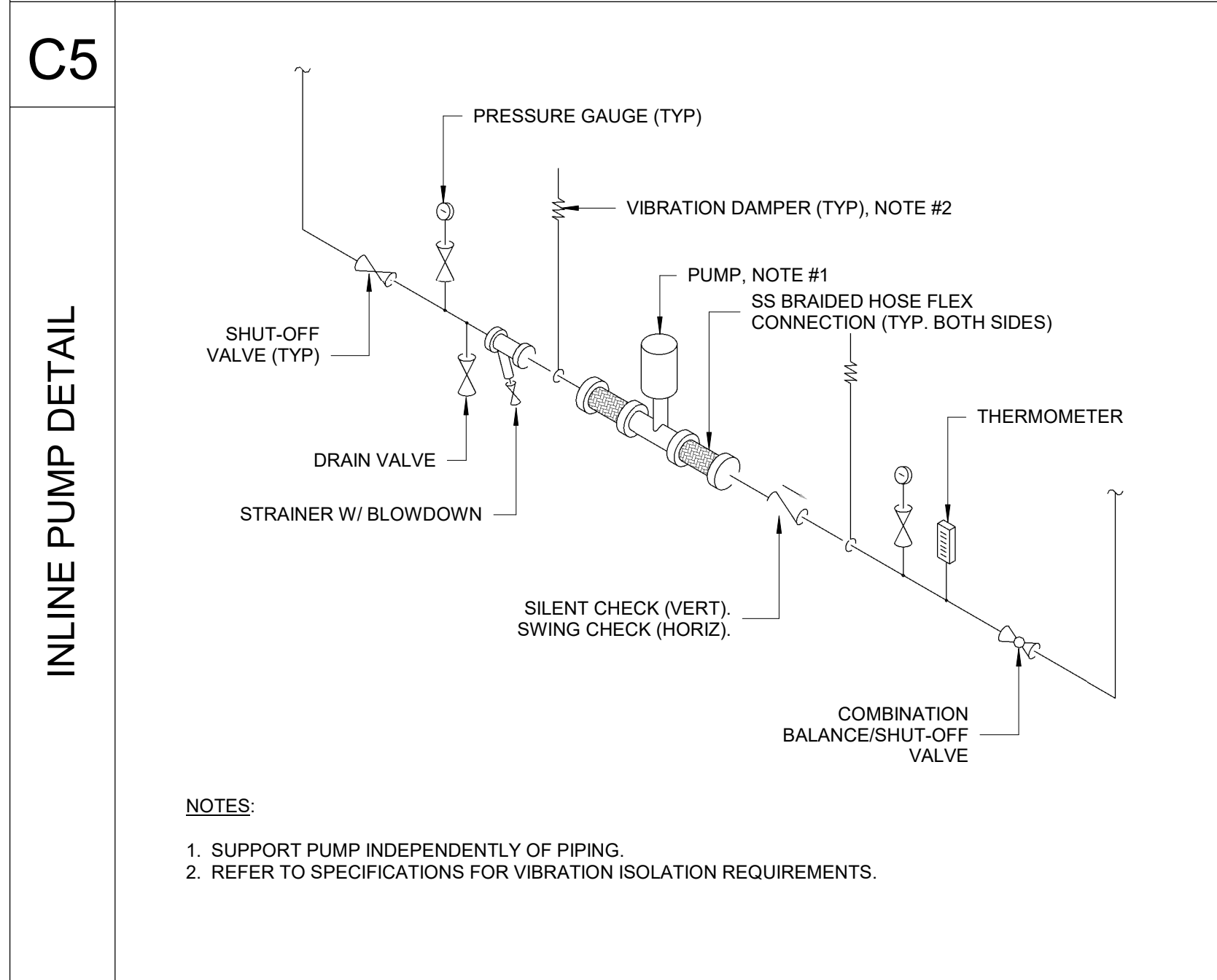
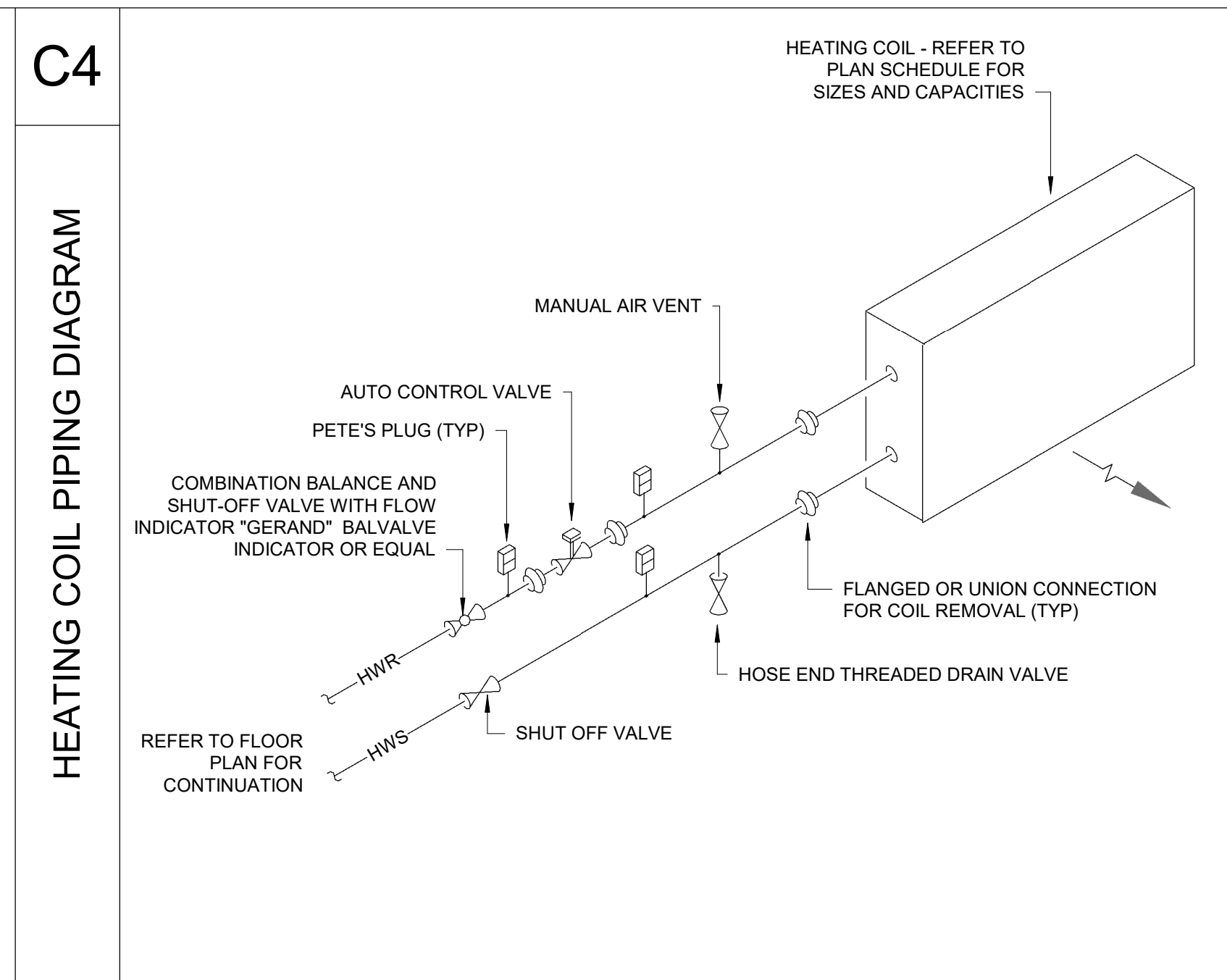
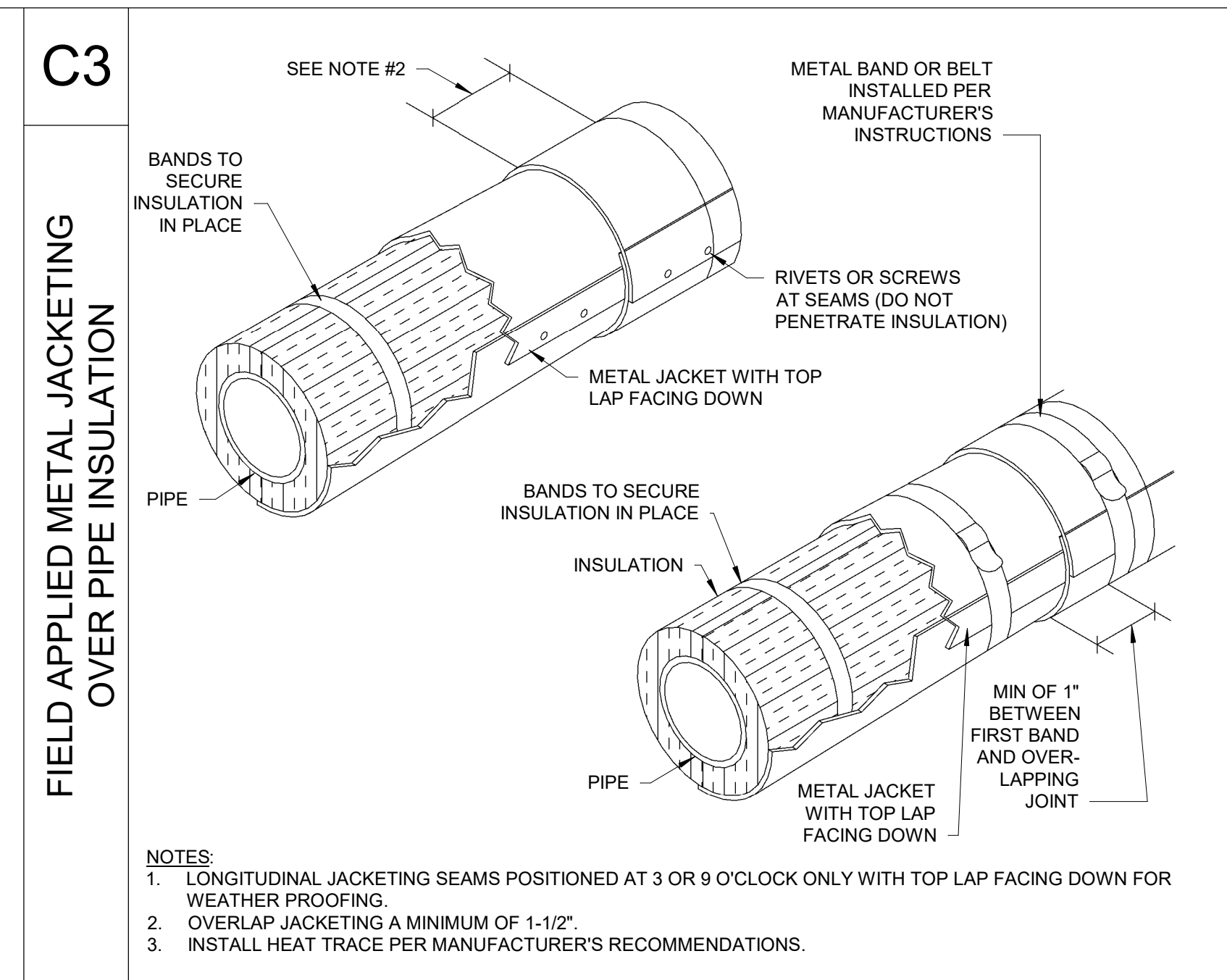
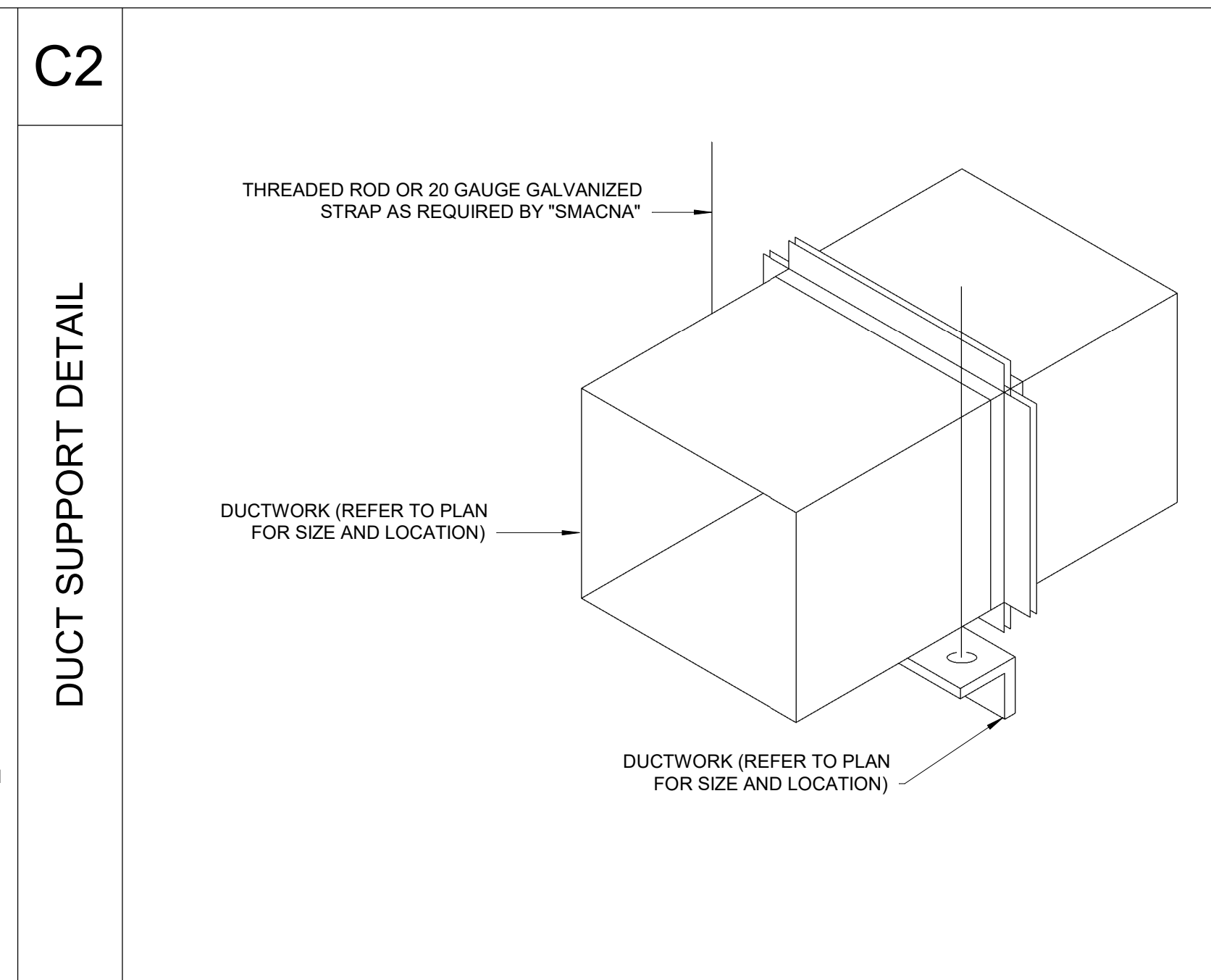
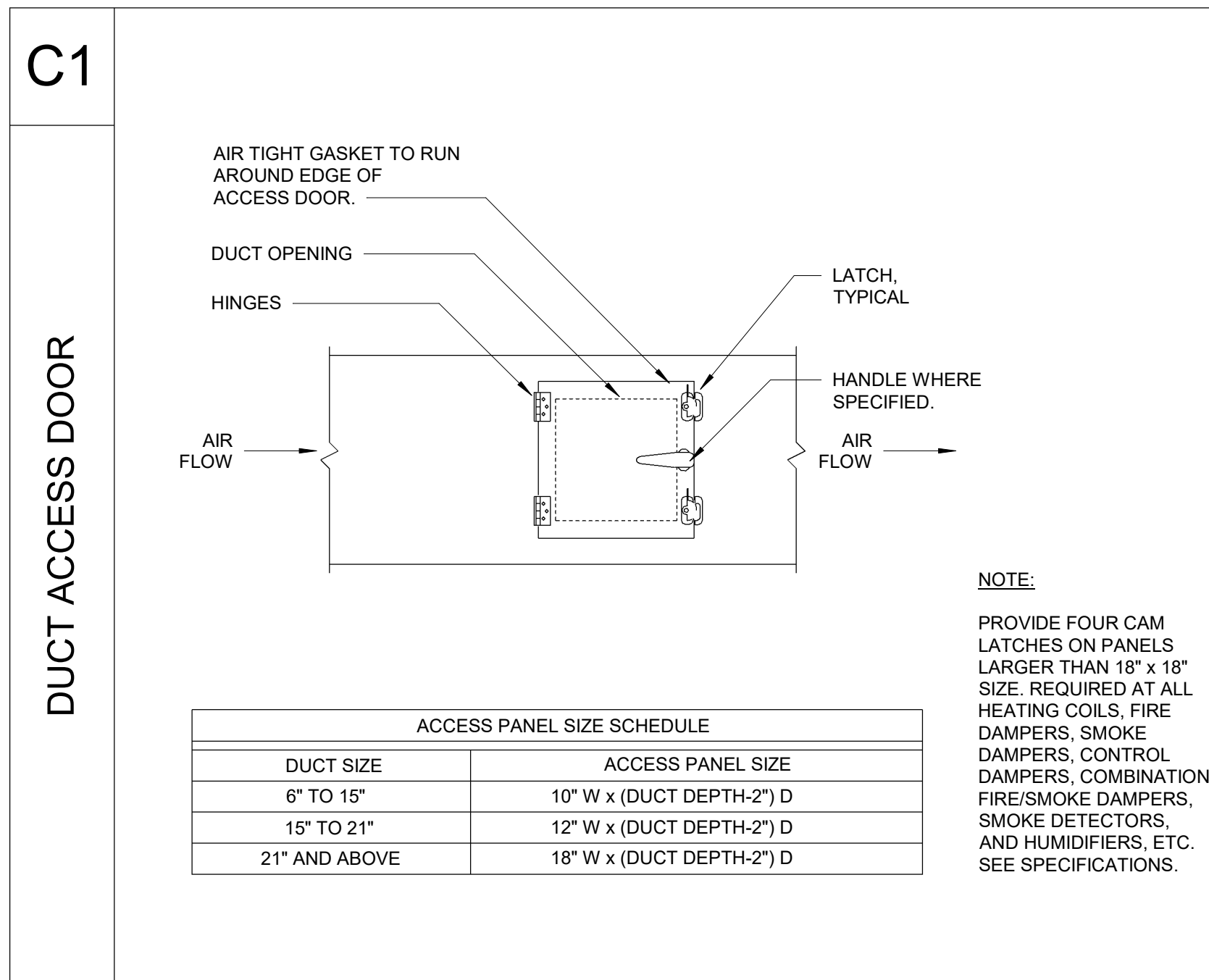
**MEZZANINE
MECHANICAL
PLAN**

M1.03

PROJECT NO. 00000000



<p>B1</p> <p>ROUND TO RECTANGULAR DUCT TAKE-OFF</p>		<p>B2</p> <p>RECTANGULAR DUCT TAKE-OFF (45° CLINCH COLLAR TAP)</p> 	<p>B3</p> <p>RECTANGULAR TO ROUND DUCT TAKE-OFF (SQUARE TO ROUND TAP)</p> 	<p>B4</p> <p>RECTANGULAR 90° DUCT ELBOW WITH TURNING VANES</p> 
<p>B5</p> <p>SPLIT-SYSTEM REFRIGERANT PIPING DETAIL</p>		<p>B6</p> <p>AIR-TIGHT DUCT PENETRATION (BLOCK OR CONCRETE WALL OR SLAB)</p> 	<p>B7</p> <p>AIR-TIGHT DUCT PENETRATION (FRAMED WALL)</p> 	<p>B8</p> <p>AIR-TIGHT PIPE PENETRATION (BLOCK OR CONCRETE WALL OR SLAB)</p> 
<p>B9</p> <p>AIR-TIGHT PIPE PENETRATION (FRAMED WALL)</p>		<p>B10</p> <p>BOILER FLUE THROUGH ROOF</p> 	<p>B11</p> <p>CABINET UNIT HEATER PIPING DETAIL</p> 	<p>B12</p> <p>CHEMICAL SHOT FEEDER DETAIL</p> 
<p>B13</p> <p>CLEVIS HANGER DETAIL</p>		<p>B14</p> <p>CONDENSING BOILER DETAIL</p> 	<p>B15</p> <p>DISIMILAR PIPING MATERIAL COUPLING DETAIL</p> 	<p>B16</p> <p>DRYER EXHAUST DUCTWORK DETAIL</p> 



SINGLE DUCT TERMINAL UNIT SCHEDULE

NOTES:
1. ALL PERFORMANCE BASED ON TESTS CONDUCTED IN ACCORDANCE WITH ASHRAE 130-2008 AND AHRI 880-2011.
2. ALL NC LEVELS DETERMINED USING AHRI 886-2008 APPENDIX E.
3. PROVIDE WITH DISCONNECT.

MAKE UP AIR UNIT SCHEDULE

NOTES:
1. PROVIDE FACTORY INSTALLED SPRING ISOLATORS.
2. PROVIDE SINGLE POINT POWER CONNECTION.

TYPE II KITCHEN HOOD SCHEDULE

NOTES:
1.

ROOF TOP UNIT SCHEDULE

NOTES:
1. PROVIDE FACTORY INSTALLED SPRING ISOLATORS.
2. PROVIDE SINGLE POINT POWER CONNECTION.

DIFFUSER, GRILLE, AND REGISTER SCHEDULE

NOTES:
1. GRILLE TO BE HEAVY DUTY, ALUMINUM CONSTRUCTION.
2. DEVICE SHALL BE ALUMINUM CONSTRUCTION.

RADIANT CEILING PANEL SCHEDULE

NOTES:
1. PROVIDE SMOOTH FINISH.

CABINET UNIT HEATER SCHEDULE

NOTES:
1. UNIT TO BE FURNISHED WITH UNIT MOUNTED THERMOSTAT AND ECM MOTOR.

UNIT HEATER SCHEDULE

NOTES:
1. UNIT TO BE FURNISHED WITH WALL MOUNTED ANALOG THERMOSTAT AND VIBRATION ISOLATION HANGERS.

SOUND POWER DATA (INLETOUSET)

NOTES:
1. PROVIDE FACTORY INSTALLED SPRING ISOLATORS.
2. PROVIDE SINGLE POINT POWER CONNECTION.

LOUVERED PENTHOUSE SCHEDULE

NOTES:
1. PROVIDE PREINSULATED ROOF CURB WITH DAMPER TRAY.
2. FURNISH AND INSTALL HOOD WITH BIRDSCREEN AND MOTOR OPERATED DAMPER.
3. FURNISH AND INSTALL HOOD WITH BIRDSCREEN AND GRAVITY DAMPER.
4. COLOR AS SELECTED BY ARCHITECT.

AUTOMATIC GLYCOL SOLUTION MAKE UP SCHEDULE

NOTES:
1. UNIT TO COME COMPLETE WITH ALL NECESSARY VALVES, STRAINERS, PRESSURE GAUGES, EXPANSION TANK, ETC FOR A COMPLETE AND OPERABLE SYSTEM.
2. PROVIDE LOW WATER CUT OFF.

PLATE AND FRAME HEAT EXCHANGER SCHEDULE

NOTES:
1.

CONDENSING UNIT SCHEDULE

NOTES:
1. PROVIDE WITH FACTORY MOUNTED DISCONNECT.

AIR CONDITIONING UNIT SCHEDULE

NOTES:
1. PROVIDE WALL MOUNTED AND WIRED THERMOSTAT.

FAN SCHEDULE

NOTES:
1. PROVIDE WITH 14" CURB AND INTEGRAL BACKDRAFT DAMPER.
2. PROVIDE BACKDRAFT DAMPER.
3. FAN TO BE HIGH TEMPERATURE RATED. PROVIDE FAN WITH ALUMINUM DRAIN TUBE.

HVLS FAN SCHEDULE

NOTES:
1. FAN TO BE INSTALLED 14" O/F AFF.
2. PROVIDE WITH WALL-MOUNTED KEYPAD.

EXPANSION TANK SCHEDULE

NOTES:
1.

AIR SEPARATOR SCHEDULE

NOTES:
1. PROVIDE WITH REMOVABLE HEAD.

BOILER SCHEDULE

NOTES:
1. PROVIDE CONDENSATE NEUTRALIZATION KIT.
2. PROVIDE BMS INTERFACE.

HYDRONIC SNOW MELT SCHEDULE

NOTES:
1. MANFOLD SHALL COME COMPLETE, FULLY ASSEMBLED WITH ISOLATION AND BALANCING VALVES.

PUMP SCHEDULE

NOTES:
1. PUMPED FLUID IS A SOLUTION OF WATER AND 30% PROPYLENE GLYCOL.

MODULATING GAS FIRED RADIANT HEATER SCHEDULE

NOTES:
1. UNIT TO BE FURNISHED WITH WALL-MOUNTED ANALOG THERMOSTAT.
2. FURNISH WITH MANUFACTURERS VERTICAL THROUGH THE ROOF END CAP.

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PLUMBING GENERAL NOTES AND SCHEDULES

P0.01

PLUMBING GENERAL NOTES

- 1. COORDINATE PHASING OF ALL DEMOLITION AND RENOVATION WORK WITH OWNER AND OTHER TRADES. REVIEW RENOVATION DRAWINGS TO VERIFY AND/OR DETERMINE EXTENT OF, AND SCHEDULING FOR, ALL DEMOLITION PRIOR TO PERFORMING DEMOLITION WORK.
2. FIELD VERIFY ALL SIZES AND LOCATION OF EXISTING PIPING AND EQUIPMENT TO REMAIN. NOTIFY ARCHITECT/ENGINEER OF DEVIATIONS WHICH AFFECT RENOVATION WORK PRIOR TO PROCEEDING WITH THE WORK.
3. SAWCUT OR DRILL EXISTING FLOOR SLABS AS REQUIRED FOR INSTALLATION OF NEW PIPING. DO NOT USE JACK HAMMER AS A MEANS OF CUTTING.
4. ALL PLUMBING FIXTURES AND EQUIPMENT TO BE REMOVED SHALL BE STORED OR DISCARDED AS DIRECTED BY OWNER.
5. ALL WORK IS TO BE PHASED AS INDICATED ON THE ARCHITECTURAL DRAWINGS. COORDINATE PHASING OF ALL DEMOLITION, RENOVATION AND NEW WORK WITH OTHER TRADES. CLOSELY COORDINATE PHASING OF WORK WITHIN CORRIDORS WITH THE OWNER. CORRIDORS CANNOT BE COMPLETELY CLOSED OFF TO PEDESTRIAN TRAFFIC TO ACCOMMODATE PHASING. CORRIDOR ACCESS WORK MAY NEED TO BE PERFORMED DURING OFF PEAK PERIODS. PRIOR TO MOVING ON TO A NEXT PHASE, ALL WORK IN PREVIOUSLY PHASED AREAS MUST BE COMPLETE AND OPERATIONAL. BEFORE STARTING WORK, ARRANGE TO SHUT DOWN UTILITIES AND SERVICE LINES IN AREA OF DEMOLITION WORK. BE SURE THAT LOCATIONS OF UTILITIES IN VICINITY ARE KNOWN AND IDENTIFIED AS "IN SERVICE" OR "SHUT DOWN". COORDINATE DEMOLITION AND UTILITY SHUT DOWN OF PLUMBING SYSTEMS WITH OTHER TRADES ON SITE.
6. PROMPTLY REMOVE MATERIALS FROM THE PROPERTY OTHER THAN THOSE SPECIFIED HEREIN OR NOTED ON THE DRAWINGS AS BEING REUSED OR SALVAGED. REMOVE DEMOLISHED PIPING AND VALVES, DEBRIS AND RUBBISH FROM THE PROPERTY.
7. PROMPTLY REPAIR ANY ITEMS DAMAGED DURING PROCESS OF THIS WORK, INCLUDING ANY DAMAGE TO STRUCTURE, PAVEMENT, SIDEWALKS OR ADJACENT GROUND CAUSED BY TRANSPORTING MATERIALS OR EQUIPMENT.
8. INFORMATION CONTAINED IN THESE DRAWINGS WAS OBTAINED FROM ARCHIVED DRAWINGS AND VISITS TO THE PROJECT. NOT ALL EXISTING PLUMBING (FIRE PROTECTION) PIPING AND EQUIPMENT MAY BE SHOWN.
9. ABANDONED PIPING IS TO BE CAPPED. DEMOLITION OF PIPING SHALL BE DONE IN A MANNER SO AS TO LEAVE LESS THAN ONE (1) INCH OF PIPING TO REMAIN.
10. THE CONTRACTOR SHALL INSTALL A TEST TEE IN THE NEW SANITARY WASTE AND VENT PIPING IN ORDER TO TEST THE SYSTEM.
11. COORDINATE EXACT REQUIREMENTS AND LOCATION OF WORK WITH THE WORK OF OTHER TRADES. PROVIDE ADDITIONAL OFF SETS AND SECTIONS OF PIPING AS MAY BE REQUIRED TO MEET THE APPLICABLE JOB CONDITION REQUIREMENTS. VERIFY JOB-SITE ELEVATIONS, DIMENSIONS, AND CONDITIONS, PRIOR TO FABRICATION OR INSTALLATION OF THE WORK. COORDINATE EXACT ROUTING OF PIPING WITH OTHER TRADES SO THAT NO CONFLICTS OCCUR WITH DUCTWORK, PIPING, LIGHTS, STRUCTURE, ETC.
12. VISIT THE SITE OF THE WORK TO GAIN AN ACCEPTABLE KNOWLEDGE OF CONDITIONS AFFECTING THE WORK. AFTER VISITING THE SITE, REQUEST SUCH INFORMATION AND/OR CLARIFICATIONS AS NECESSARY TO FULLY UNDERSTAND THE WORK REQUIRED AND TO PROPERLY ESTIMATE COSTS.
13. VISIT THE SITE OF THE WORK TO GAIN AN ACCEPTABLE KNOWLEDGE OF CONDITIONS AFFECTING THE WORK. AFTER VISITING THE SITE, REQUEST SUCH INFORMATION AND/OR CLARIFICATIONS AS NECESSARY TO FULLY UNDERSTAND THE WORK REQUIRED AND TO PROPERLY ESTIMATE COSTS.
14. VISIT THE SITE OF THE WORK TO GAIN AN ACCEPTABLE KNOWLEDGE OF CONDITIONS AFFECTING THE WORK. AFTER VISITING THE SITE, REQUEST SUCH INFORMATION AND/OR CLARIFICATIONS AS NECESSARY TO FULLY UNDERSTAND THE WORK REQUIRED AND TO PROPERLY ESTIMATE COSTS.
15. ENSURE THAT WORK WILL NOT INTERFERE OR INTERRUPT SERVICES TO AREAS OUTSIDE OF THE DESIGNATED CONTRACT AREAS AS ANY INTERRUPTIONS OF EXISTING SERVICES BECOMES NECESSARY. SCHEDULE SUCH INTERRUPTIONS WITH THE OWNER PRIOR TO THEIR COMMENCEMENT. THE GIVE THE OWNER NO LESS THAN TWO WEEKS NOTICE TO WHEN HE EXPECTS SUCH INTERRUPTIONS. WORK SHALL BE PERFORMED AT SUCH TIMES AS DIRECTED BY THE OWNER.
16. HIRE A TEST LABORATORY OR AGENCY TO LOCATE FLOOR SLAB PRE STRESSED CABLES AND STRUCTURAL REBBS BY MEANS OF X-RAY OR OTHER RELIABLE METHOD PRIOR TO CUTTING OR CORE DRILLING. ADJUST FLOOR PENETRATIONS WITH ARCHITECTS APPROVAL. TO AVOID DAMAGING THE PRE STRESSED CABLES OR CUTTING THE STRUCTURAL REBBS. ALL PIPING PENETRATIONS MUST OCCUR WITHIN THE SLAB VOID AREAS.
17. ALL FLOOR PENETRATIONS TO BE SEALED WATER TIGHT AND COMPLETELY PACKED WITH SEALANT OR FIRE STOP MATERIAL WHERE APPLICABLE BY TRADE CONTRACTORS.
18. EACH TRADE SHALL PAY THE GENERAL CONTRACTOR TO PATCH FLOOR SLAB AND WALL PENETRATIONS TO MATCH EXISTING WHERE PIPING IS BEING REMOVED OR INSTALLED.
19. PROVIDE ALL MATERIALS AND EQUIPMENT AND ALL LABOR REQUIRED TO INSTALL COMPLETE AND OPERABLE SYSTEMS AS INDICATED ON THE DRAWINGS AND SPECIFICATIONS. INCLUDE ALL NECESSARY AND APPLICABLE APPURTENANCES, WHETHER INDICATED OR NOT.
20. INSTALL ALL WORK TO COMPLY WITH ALL LAWS, REGULATIONS, CODES AND STANDARDS (FEDERAL, STATE, AND LOCAL), AS ADOPTED BY THE AGENCIES HAVING JURISDICTION, INCLUDING REASONABLY ANTICIPATED REVISIONS BASED ON EMERGING TRENDS IN BUILDING REGULATIONS, WHERE ANY OF THESE DIFFER, THE MOST STRINGENT SHALL APPLY.
21. COORDINATE THE LOCATION OF ALL UTILITY CONNECTION POINTS, FLOOR DRAINS AND HUB DRAINS FOR EQUIPMENT WITH OTHER TRADES.
22. PROVIDE LINE SIZE SHUT-OFF VALVE IN ALL HOT AND COLD WATER BRANCHES SERVING PLUMBING FIXTURES OR EQUIPMENT.
23. ALL PIPING PENETRATIONS THRU COUNTERTOPS BY PLUMBING CONTRACTOR. PROVIDE CHROME PLATED ESCUTCHEON.
24. PROVIDE A WATER HAMMER ARRESTOR ON HOT AND COLD WATER LINES AT ENDS OF MAINS, AT ENDS OF BRANCH LINES, AT END OF LINES SERVING GROUPS OF PLUMBING FIXTURES AND FOR ALL QUICK CLOSING VALVES. SIZE AND INSTALL ARRESTORS AS RECOMMENDED BY PDI WH-201 TO ELIMINATE WATER HAMMER. INSTALL WHERE ACCESSIBLE FOR SERVICE AND PROVIDE ISOLATION VALVE AND ACCESS DOOR IF REQUIRED.
25. REFER TO ARCHITECTURAL DRAWINGS FOR LOCATION, QUANTITY AND ARRANGEMENT OF MEDICAL GAS OUTLETS AND ZONE VALVE LOCATIONS.
26. ALL NEW ZONE VALVE ENCLOSURES TO HAVE LINE SIZE BALL VALVES WITH ENCLOSURE FOR EACH MEDICAL GAS.
27. ALL MEDICAL GAS VALVES, ABOVE CEILINGS, TO HAVE LOCKABLE HANDLES.
28. CEILING MOUNTED EQUIPMENT BOOM ASSEMBLY SHALL COMPLY WITH NFPA 99C, PARAGRAPH 5.1.6.
29. PROVIDE ACCESS PANEL IN DRYWALL CEILINGS TO ACCESS ITEMS SUCH AS VALVES OR AREA ALARM SENSORS.
30. WHERE WAG OUTLETS ARE LOCATED IN ROOM, CONNECT 3/4" WAG INTO MV LINE SERVING ROOM. CONNECTION POINT TO BE AS REQUIRED BY NFPA 99.
31. ALL TRENCHES SHALL BE GAS AREA ALARM SENSOR LOCATION; PROVIDE ZONE VALVE BOX WITH SENSORS ON PATIENT SIDE OF VALVES.
32. THE CONTRACTOR IS RESPONSIBLE FOR FIRESTOPPING AT ALL PLUMBING RELATED PENETRATIONS OF FIRE, SMOKE AND OTHER RATED STRUCTURES, INCLUDING FLOORS, WALLS, PARTITIONS, ETC. REFER TO ARCHITECTURAL DOCUMENTATION FOR LOCATIONS OF ALL RATED STRUCTURES, AND SPECIFIC INFORMATION AND REQUIREMENTS PERTAINING TO SAME.
33. LAYOUT AND INSTALLATION OF PIPING, EQUIPMENT AND APPURTENANCES INDICATED ON PLAN IS SCHEMATIC IN NATURE. EXACT LOCATION, ROUTING AND INSTALLATION TO BE COORDINATED WITH BUILDING STRUCTURES AND ALL OTHER TRADES.
34. UNLESS INDICATED OTHERWISE, ALL FIXTURES AND EQUIPMENT PROVIDED WITH PLUMBING SUPPLY PIPING TO BE FURNISHED WITH APPROVED LISTED STOPS IN ACCESSIBLE LOCATIONS.
35. UNLESS INDICATED OTHERWISE BY THE ARCHITECTURAL DOCUMENTATION (WHICH SHALL TAKE PRECEDENCE), PLUMBING FIXTURES AND EQUIPMENT MOUNTING HEIGHTS SHALL BE AS INDICATED ON PLUMBING FIXTURE SCHEDULE.
36. PLUMBING PIPING IS NOT PERMITTED TO RUN ABOVE ANY ELECTRICAL SWITCH GEAR, MOTOR CONTROL CENTERS OR PANELS (INCLUDING ACCESS/CLEARANCE SPACE 42" IN FRONT OF THESE ITEMS, AND MIN 30" WIDE), UNDER ANY CIRCUMSTANCES. LOCATION OF NEW ITEMS OF THESE TYPES TO BE DETERMINED AND CONFIRMED FROM INDICATION BY THE PROJECT ELECTRICAL DOCUMENTATION, AND ACTUAL INSTALLATION CONFIRMED WITH THE ELECTRICAL CONTRACTOR PRIOR TO START OF WORK.
37. THE SIZES OF SOIL, WASTE, VENT AND WATER BRANCH PIPING TO SINGLE FIXTURES SHALL BE AS SCHEDULED IN THE PLUMBING FIXTURE SCHEDULE.
38. CONTRACTOR TO PROVIDE MISCELLANEOUS STEEL AS REQUIRED TO SUPPORT EQUIPMENT AND ASSOCIATED COMPONENTS SUCH AS CONTROL PANELS, TANKS, VALVES, PIPING, VARIABLE SPEED DRIVES, ETC. MISCELLANEOUS STEEL TO CONSIST OF GALVANIZED STRUT, ANGLE IRON, CHANNELS OR OTHER STANDARD GALVANIZED STEEL ELEMENTS. ALL WELDED CONNECTIONS TO BE GROUND AND COLD GALVANIZED IN THE FIELD.
39. THE MEDICAL GAS SYSTEMS ARE TO BE DESIGNED AND INSTALLED PER NFPA 99, 2015 VERSION, AND ASSE 6000 SERIES REQUIREMENTS.
40. PROVIDE BACKFLOW PREVENTER OR VACUUM BREAKER IN DOMESTIC WATER LINES, WHERE BACKFLOW OR BACK PRESSURE MAY OCCUR, AS REQUIRED BY THE STATE OR LOCAL JURISDICTION. EQUIPMENT SUCH AS STERILIZERS, COFFEE MAKERS, WASHERS/DISINFECTORS, ULTRASONIC CLEANERS, CARBONATED VENDING MACHINES, WATER COOLED ICE MAKERS, SHOWER MIXING VALVES WITH HOSES, HOSE BIBBS AND WALL HYDRANTS ARE TO INCLUDE BACKFLOW PREVENTION DEVICES IN THE WATER VENT LINES THAT SERVE THEM.
41. ALL SANITARY VENT LINES ARE TO TAKE OFF FROM SANITARY WASTE BRANCHES AT 45 DEGREE RISE OFF TOP OF PIPE.
42. PROVIDE SHUT-OFF BALL VALVE IN WATER LINES SERVING TRAP PRIMER DISTRIBUTION UNITS, BALANCING VALVES AND WATER HAMMER ARRESTORS.

PLUMBING SYMBOLS LIST

Table listing plumbing symbols with columns for SYMBOL, DESCRIPTION, and keynotes. Includes symbols for flow arrows, pipe caps, valves, and gauges.

PLUMBING STANDARD SYSTEM ABBREVIATIONS

Table listing plumbing standard system abbreviations with columns for ABBREVIATION and DESCRIPTION. Includes terms like COMPRESSED AIR, AIR INTAKE, DRAIN, and various water returns.

PLUMBING SPECIALITY SYSTEM ABBREVIATIONS

Table listing plumbing speciality system abbreviations with columns for ABBREVIATION and DESCRIPTION. Includes terms like ARGON, ACID VENT, ACID WASTE, BREATHING AIR, CARBON DIOXIDE, and various vacuum and exhaust systems.

PLUMBING ABBREVIATIONS

Table listing plumbing abbreviations with columns for ABBREVIATION and DESCRIPTION. Includes terms like ARCHITECT / ENGINEER, ACCESS DOOR, ABOVE FINISHED FLOOR, and various building and plumbing components.

PLUMBING EQUIPMENT ABBREVIATIONS

Table listing plumbing equipment abbreviations with columns for ABBREVIATION and DESCRIPTION. Includes terms like AUTOMATIC AIR VENT, AIR COMPRESSOR, AREA DRAIN, ABOVE GROUND STORAGE TANK, and various pumps and fixtures.

AIR COMPRESSOR SCHEDULE

Table with columns TAG, LOCATION, SERVICE, TYPE, TANK CAPACITY, MAX PRESSURE, WORKING PRESSURE, MOTOR, ELECTRICAL, BASIS OF DESIGN. Includes notes for service and design.

THERMOSTATIC MIXING VALVE SCHEDULE

Table with columns TAG, LOCATION, SERVICE, RATED FLOW, MINIMUM FLOW, PRESSURE DROP, INLET TEMPERATURE, OUTLET TEMPERATURE, BASIS OF DESIGN. Includes notes for installation and material.

BOOSTER PUMP SCHEDULE

Table with columns TAG, LOCATION, SERVICE, PUMP TYPE, HEADERS SIZE, CAPACITY, BOOSTED PRESSURE, FLUID TEMPERATURE, MOTOR, SPEED CONTROLLER, ELECTRICAL, WEIGHT, BASIS OF DESIGN. Includes notes for construction and design.

OIL SEPARATOR SCHEDULE

Table with columns TAG, LOCATION, SERVICE, FLOW RATE, CAPACITY, BASIS OF DESIGN. Includes notes for installation and design.

DOMESTIC WATER HEATER SCHEDULE

Table with columns TAG, LOCATION, SERVICE, TYPE, CAPACITY, STORAGE VOLUME, STORAGE TEMPERATURE, EWT, RECOVERY, FUEL TYPE, OPERATING PRESSURE, ELECTRICAL, WEIGHT, BASIS OF DESIGN. Includes notes for construction and design.

EXPANSION TANK SCHEDULE

Table with columns TAG, LOCATION, SERVICE, TYPE, TANK VOLUME, ACCEPTANCE VOLUME, DIAMETER, HEIGHT, DESIGN TEMPERATURE, WEIGHT, BASIS OF DESIGN. Includes notes for design.

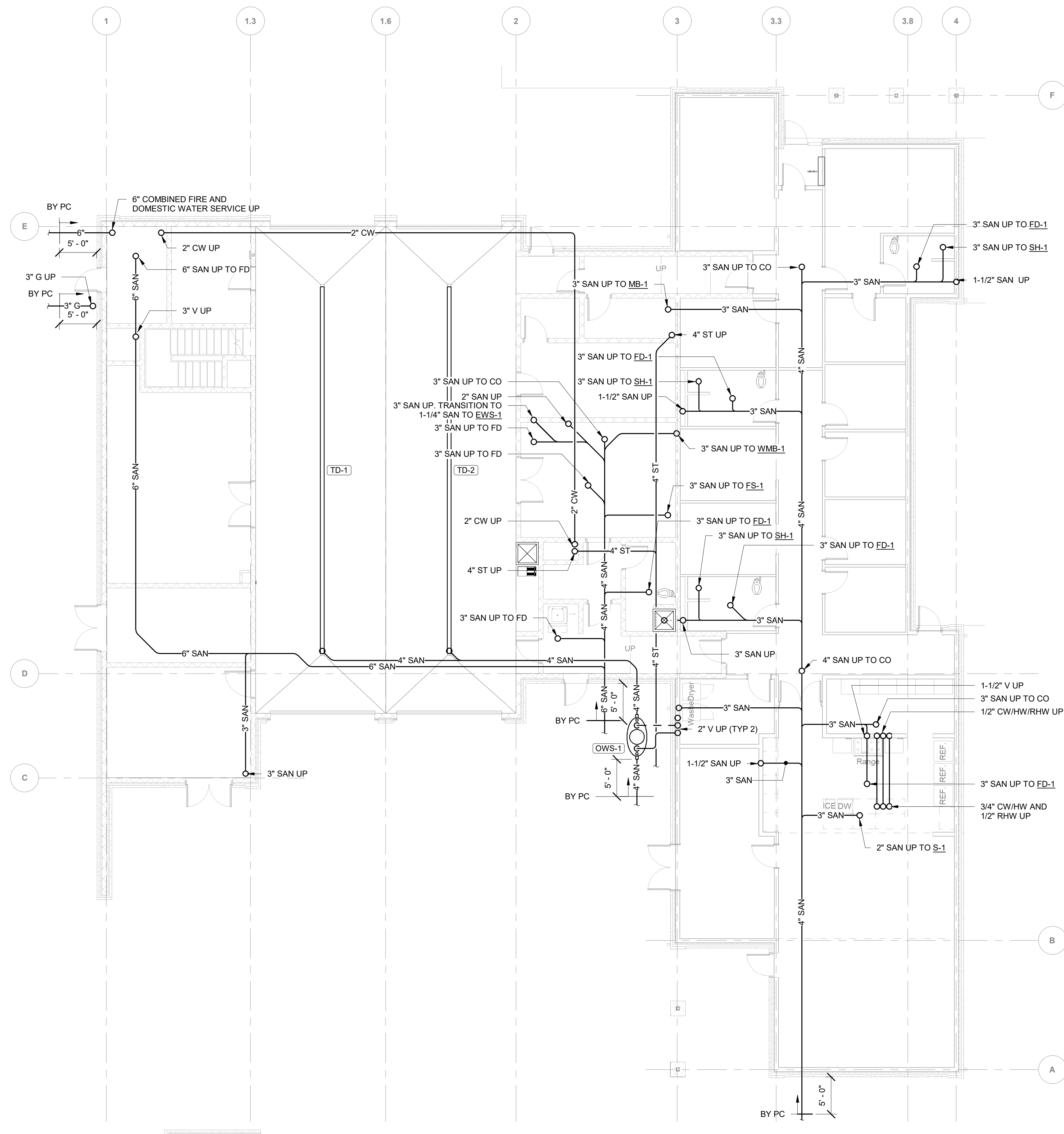
Domestic Water Branch Pipe Size Schedule

Table with columns QUANTITY, FIXTURES, SIZE. Lists pipe sizes for various fixture counts.

Plumbing Fixture Connection Schedule

Table with columns FIXTURE, WASTE, VENT, CW, HW, REMARKS. Lists connection details for various fixtures.

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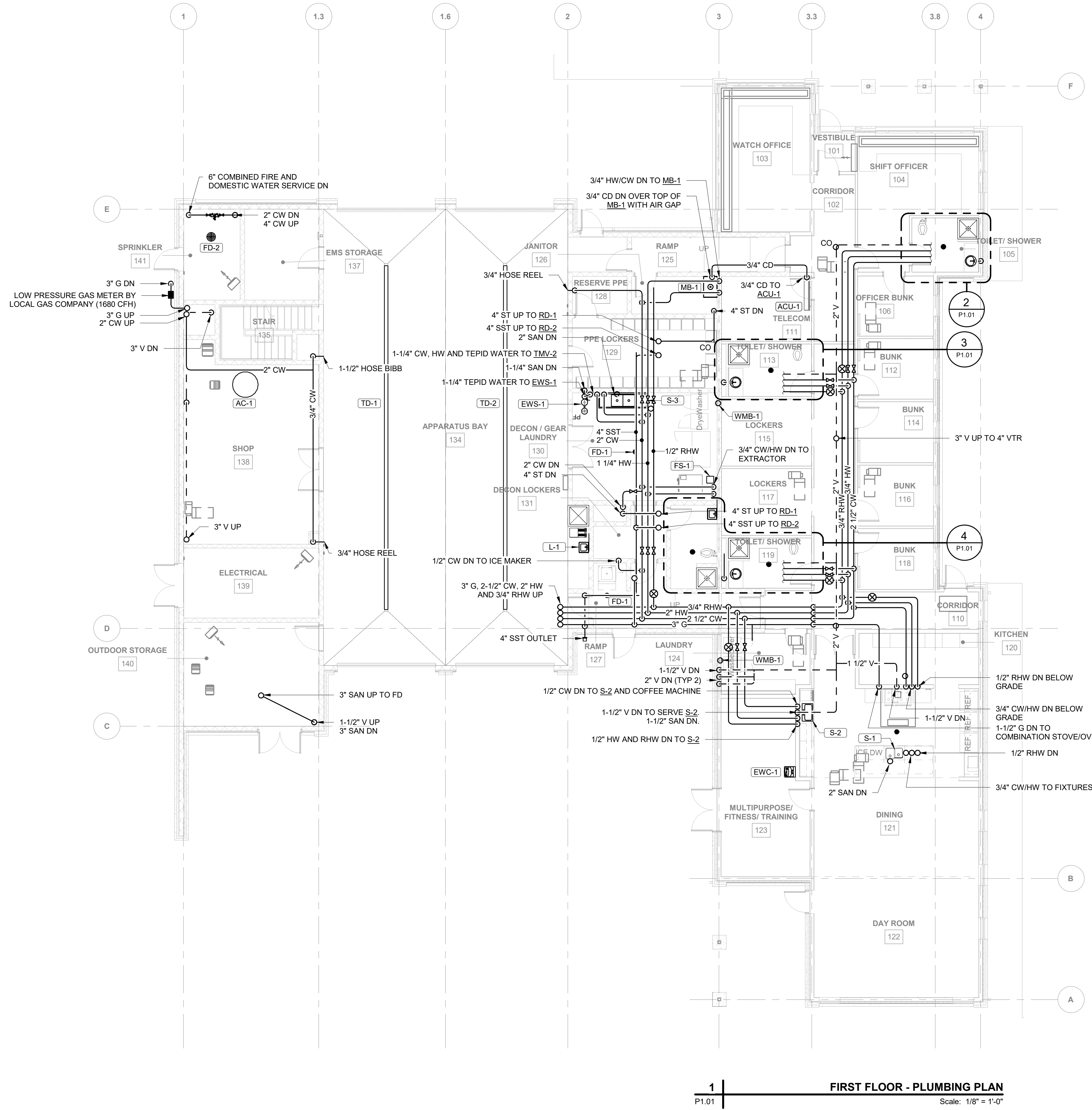
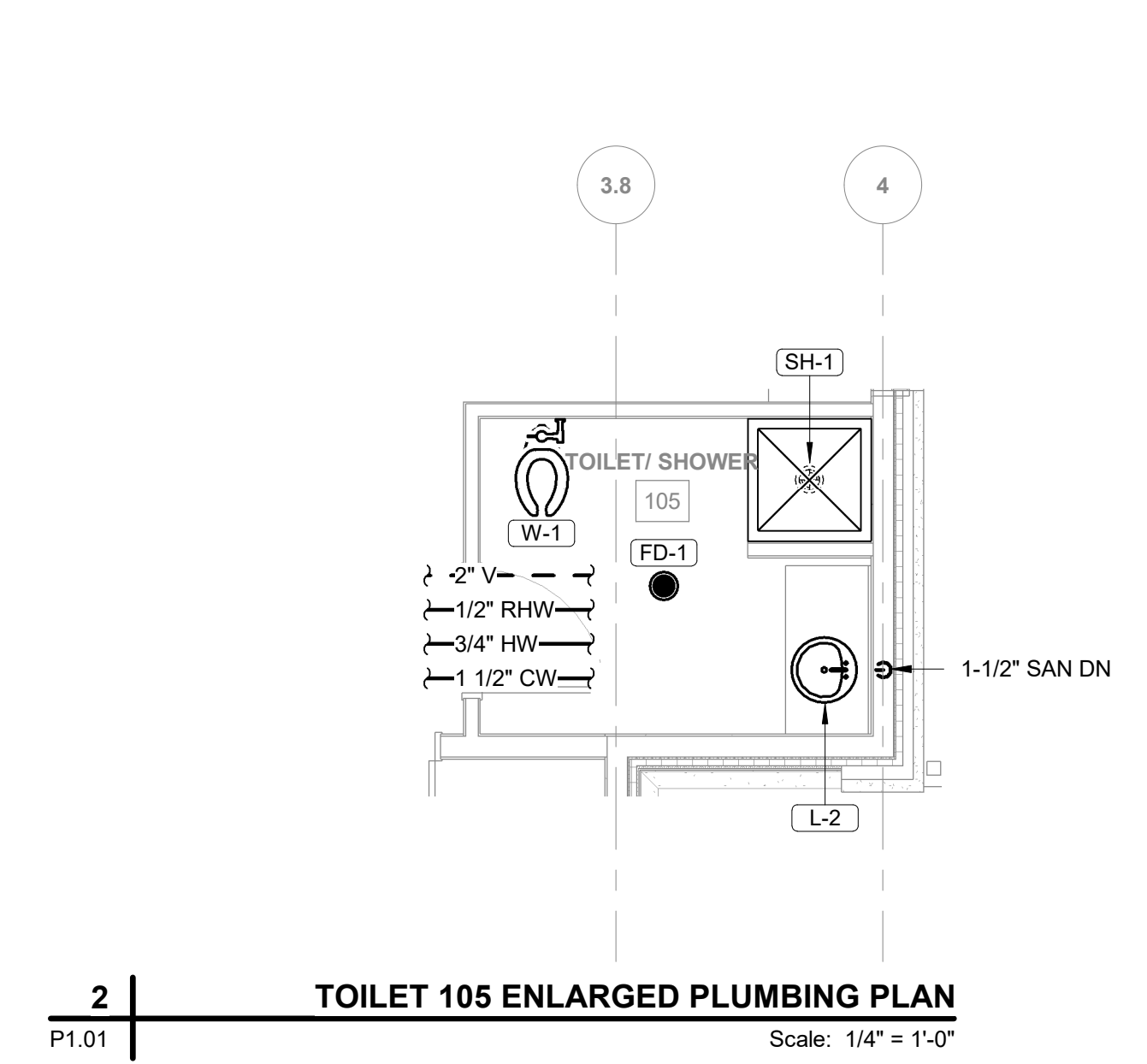
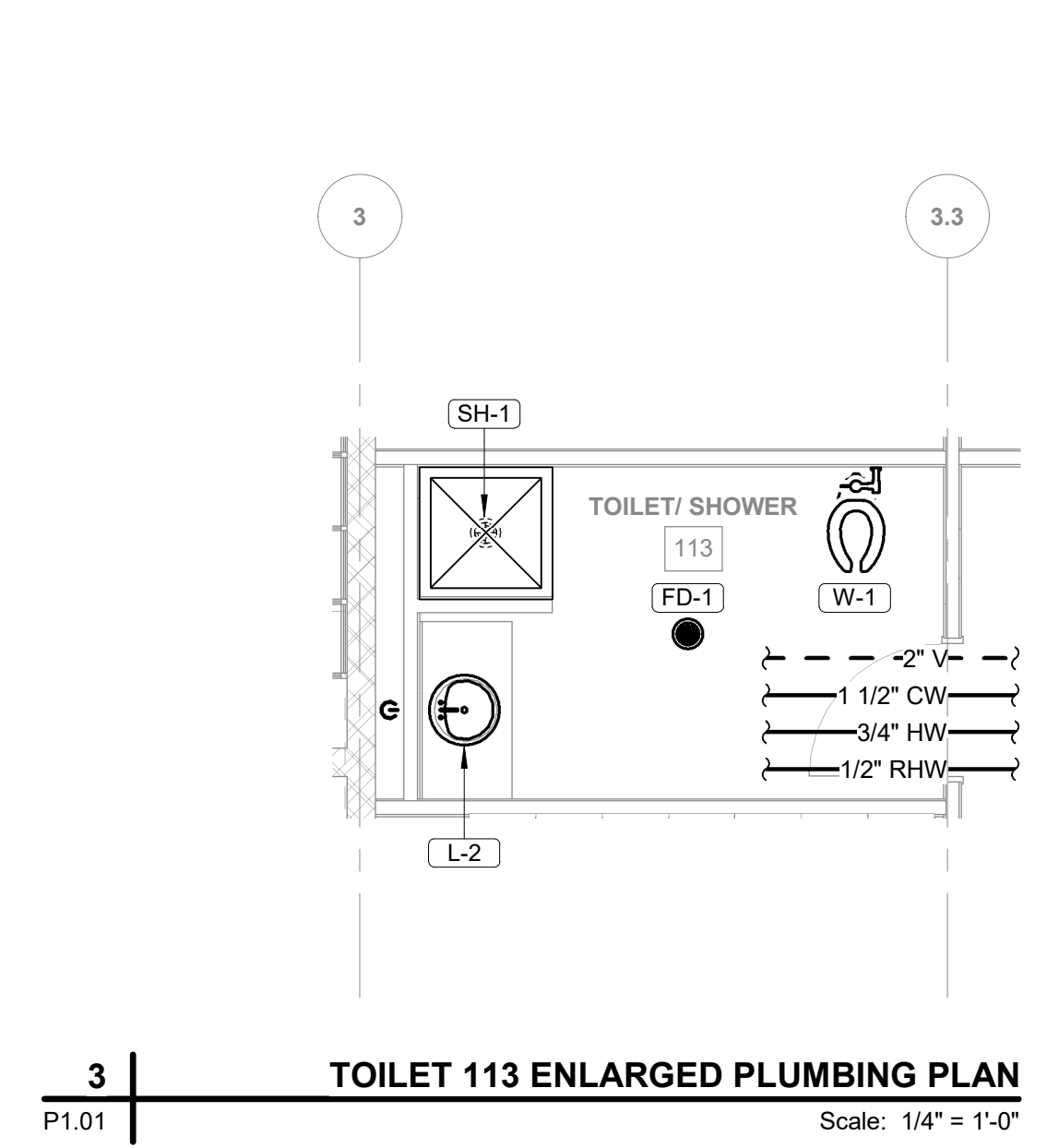
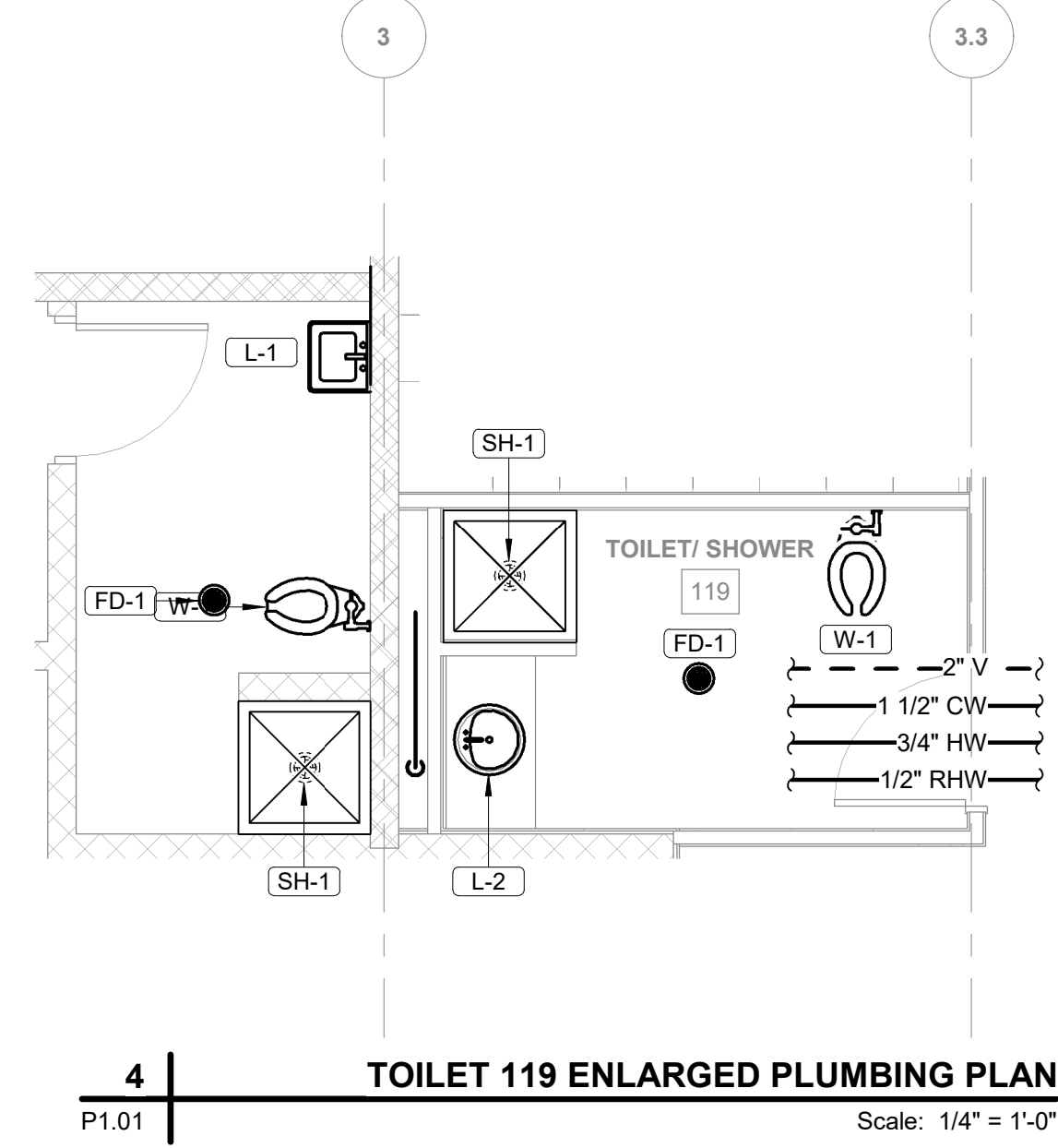
1 | **UNDERSLAB PLUMBING PLAN**
P1.00 | Scale: 1/8" = 1'-0"

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DATE OF RECORD

**UNDERSLAB
PLUMBING PLAN**

P1.00

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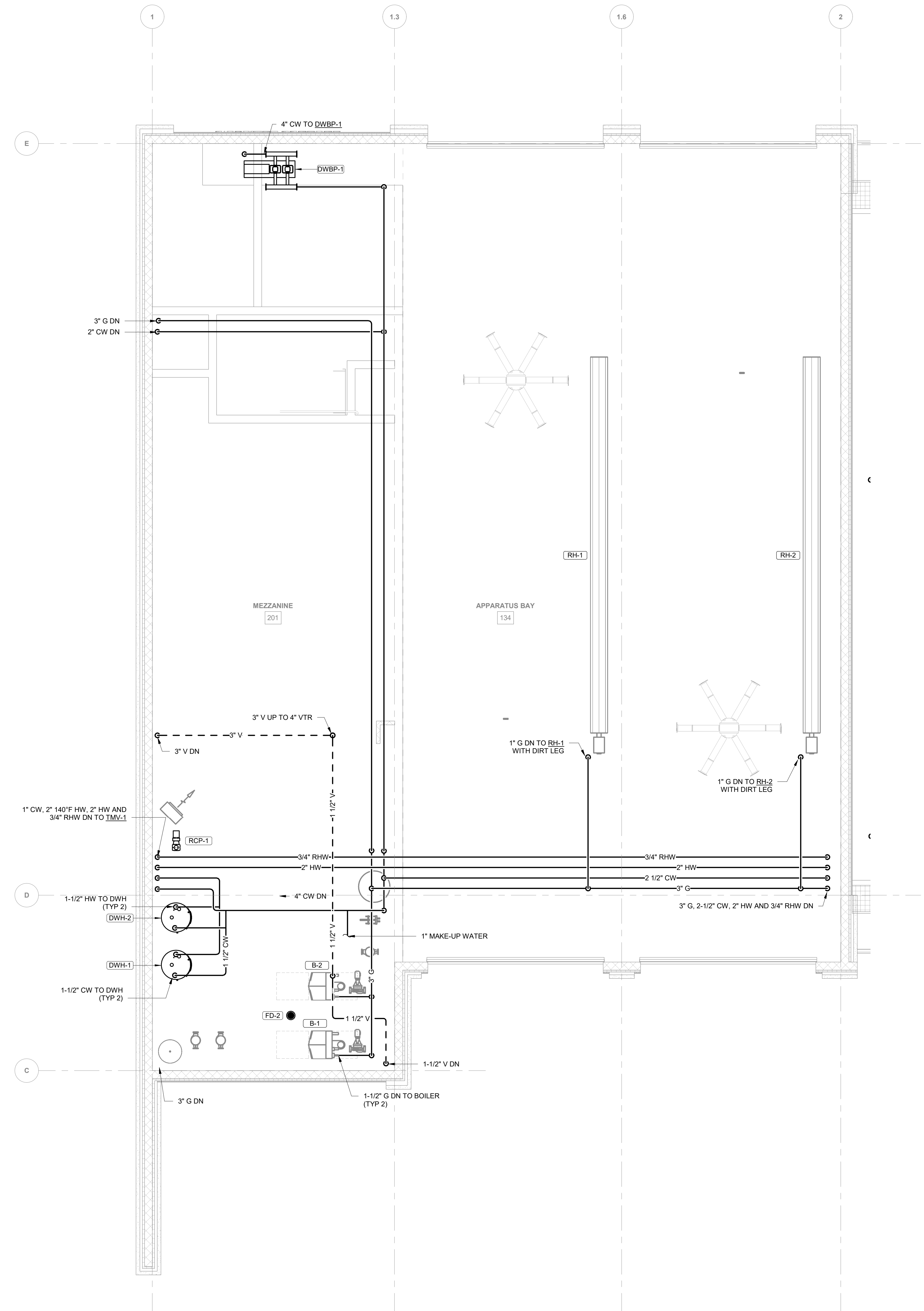
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FIRST FLOOR -
PLUMBING PLAN

P1.01

PROJECT NO. 00000000

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CONCORD, OH 44077



MEZZANINE - PLUMBING PLAN
Scale: 1/4" = 1'-0"

SEAL	DATE OF RECORD

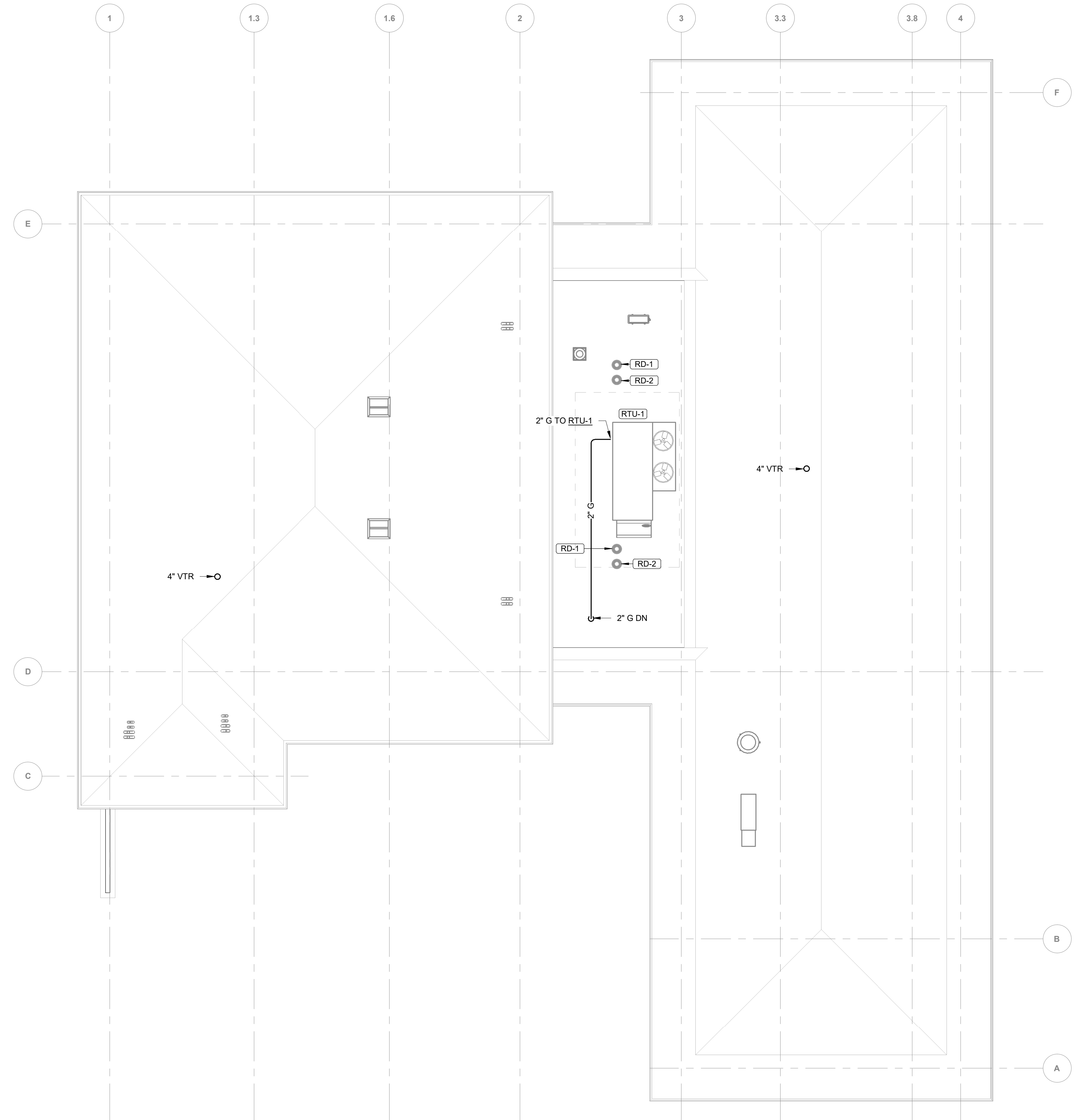
MEZZANINE PLUMBING PLAN

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CONCORD FIRE STATION 2
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LEMAY ERICKSON WILLCOX ARCHITECTS



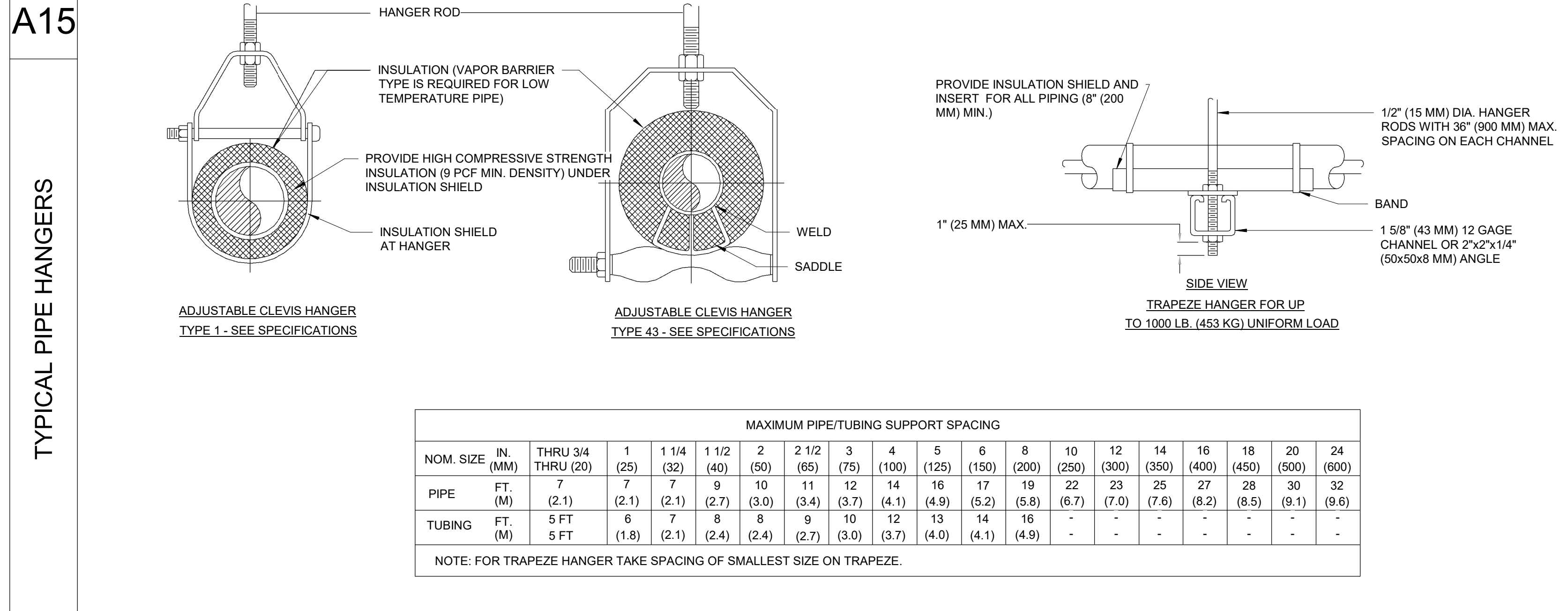
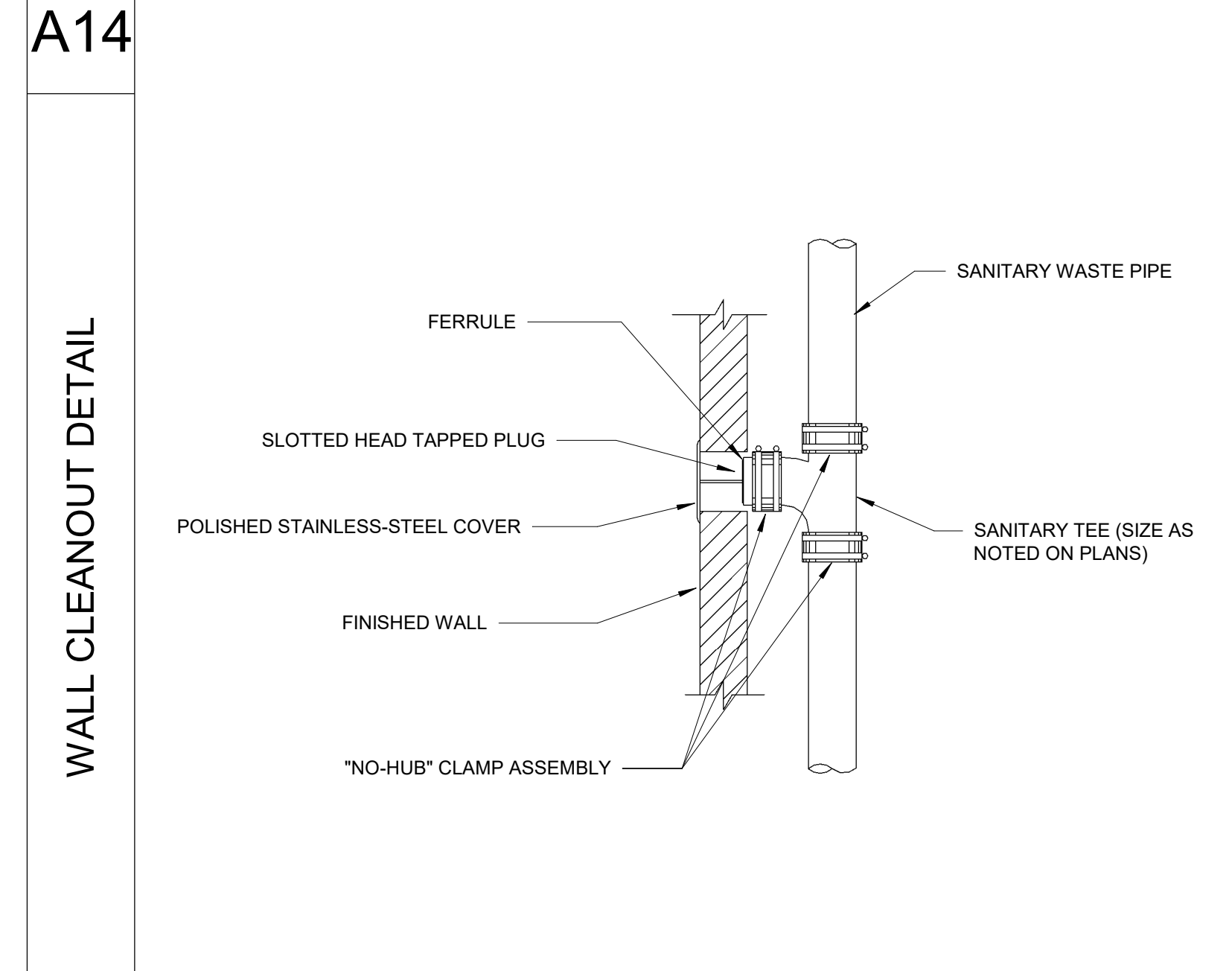
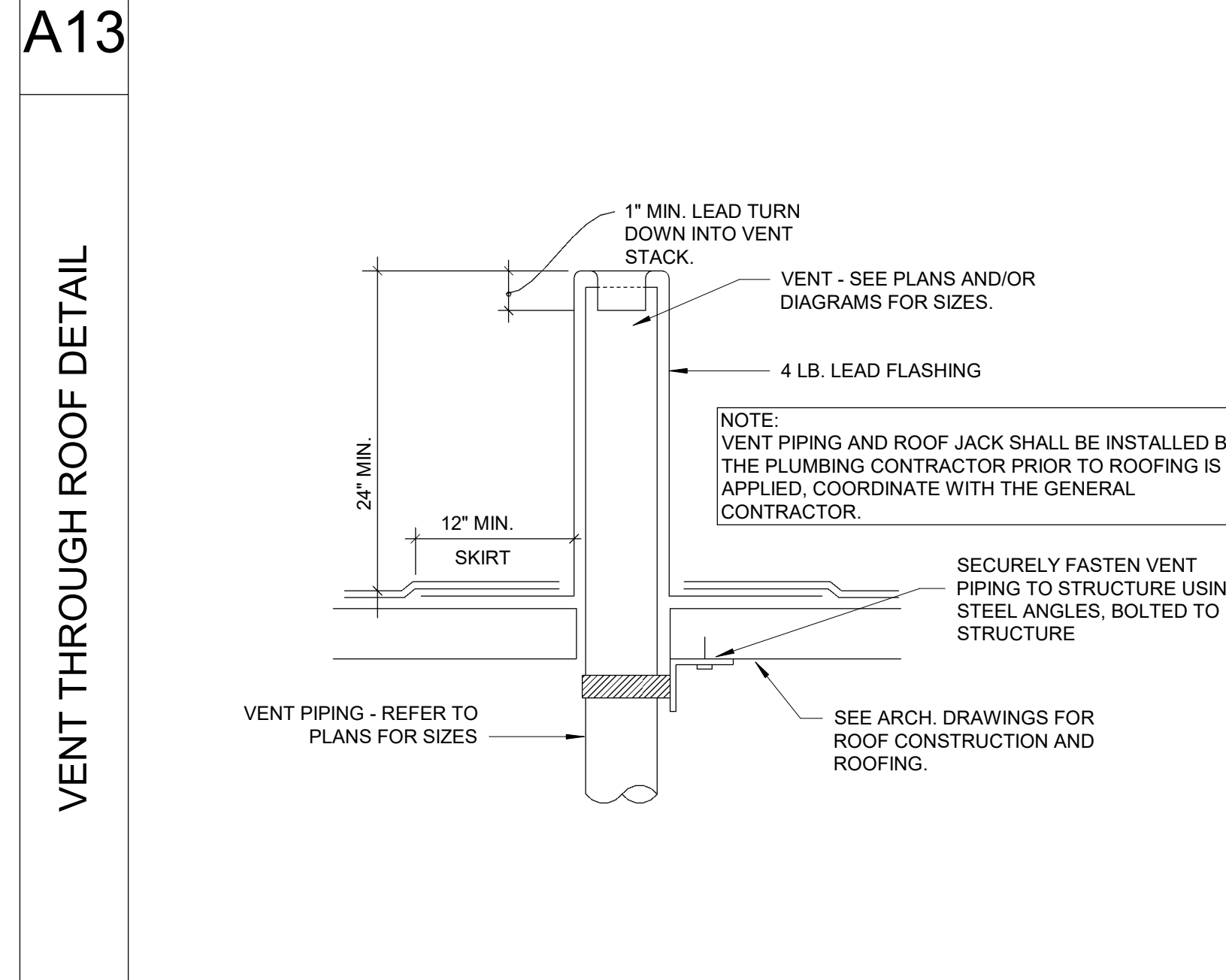
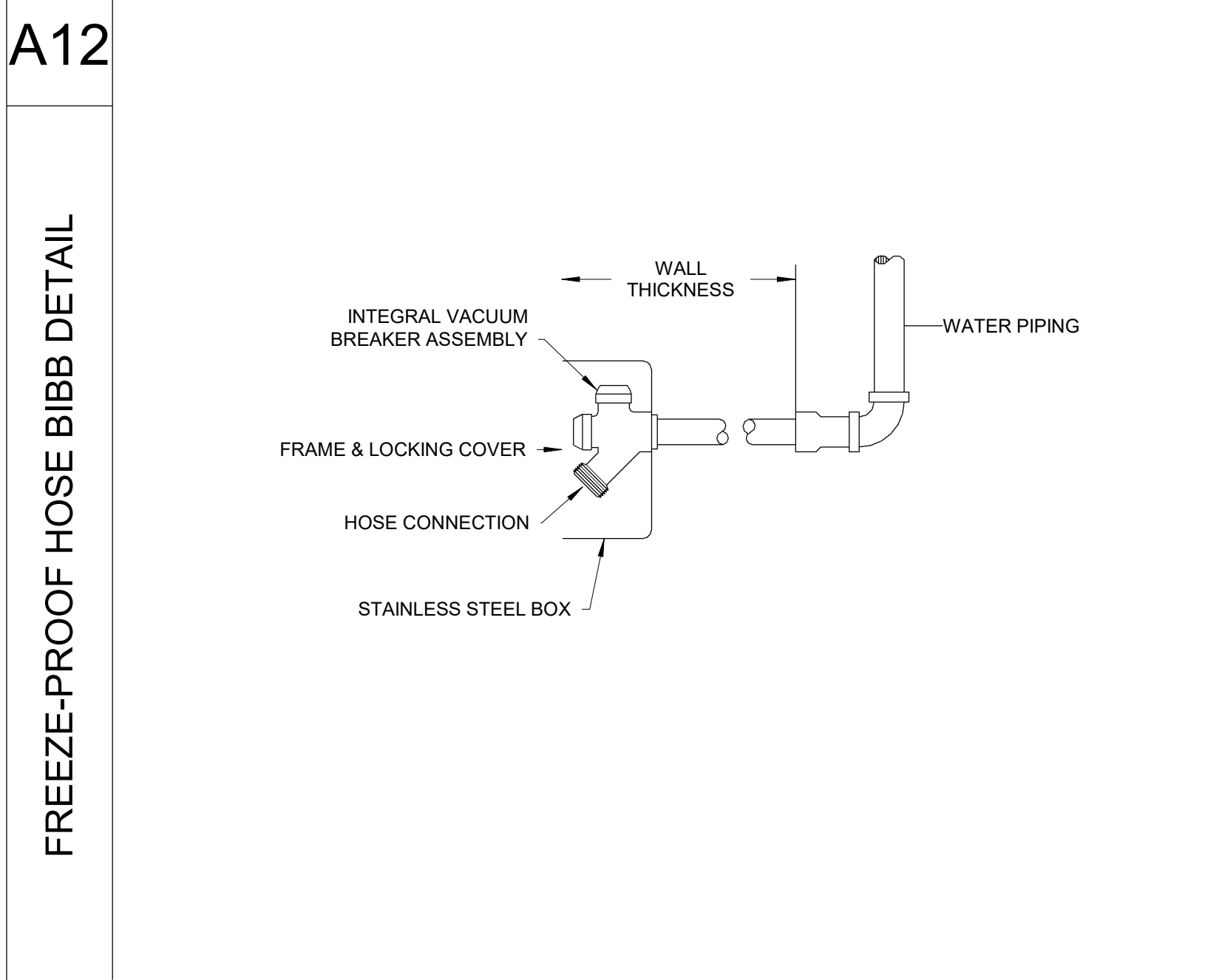
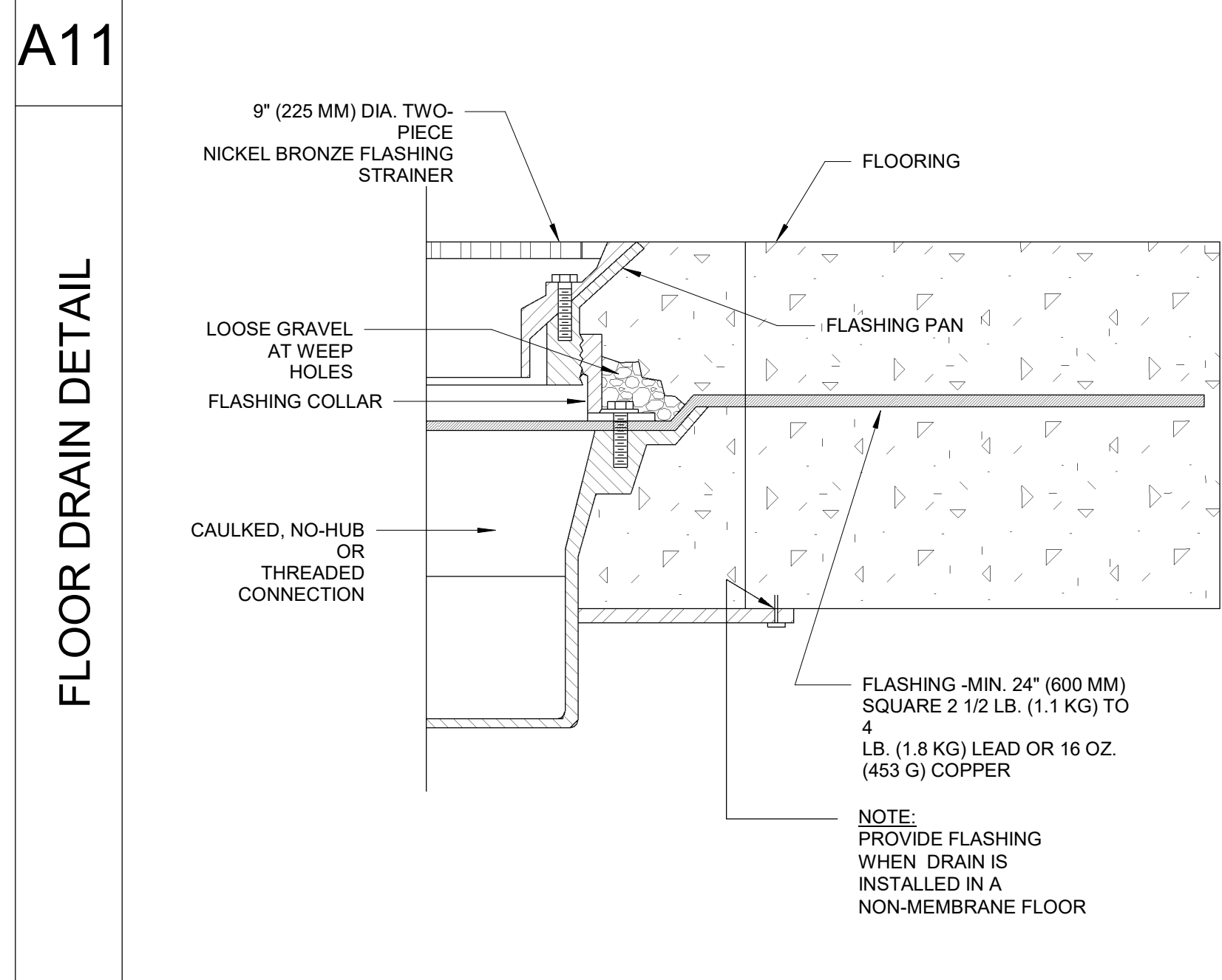
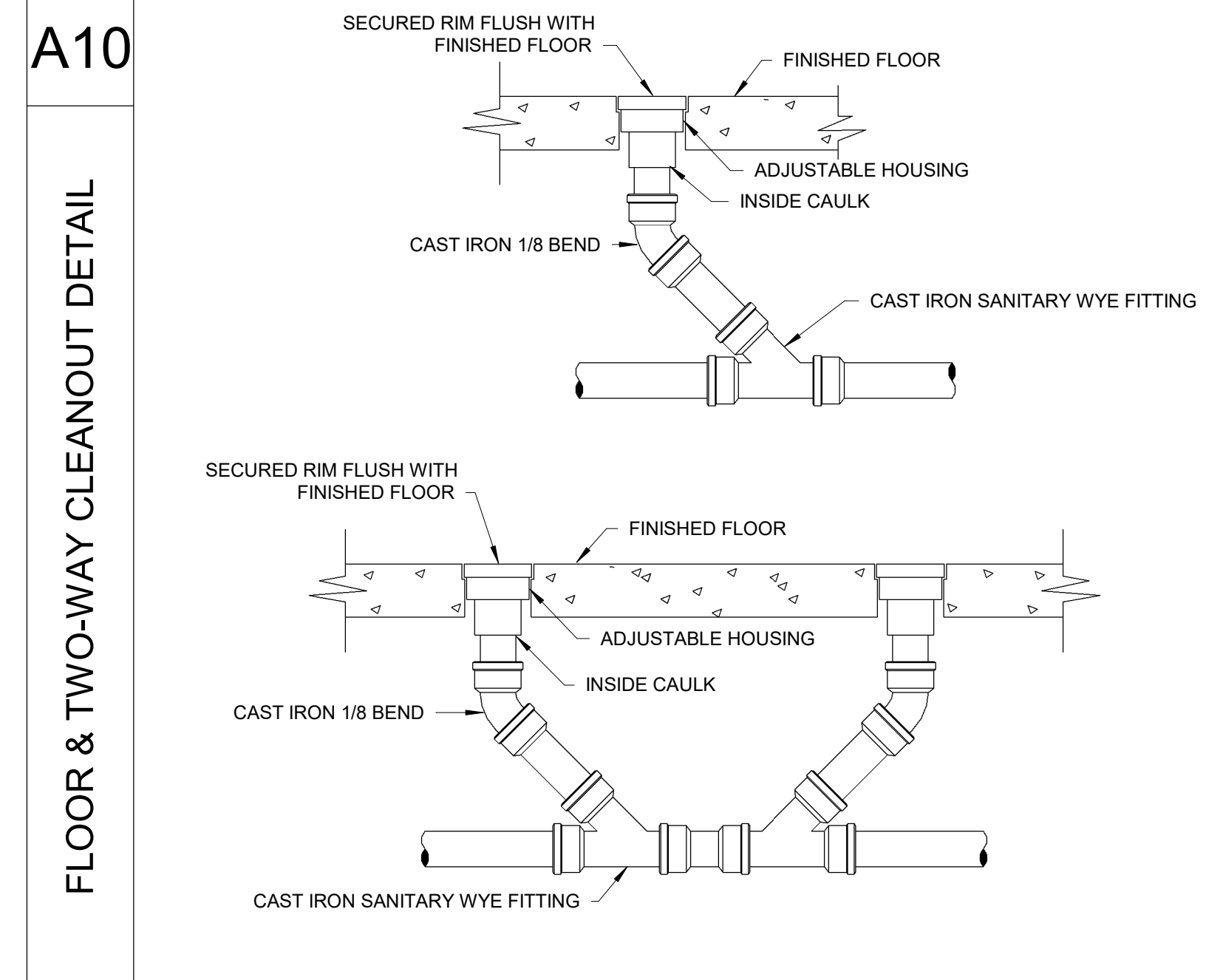
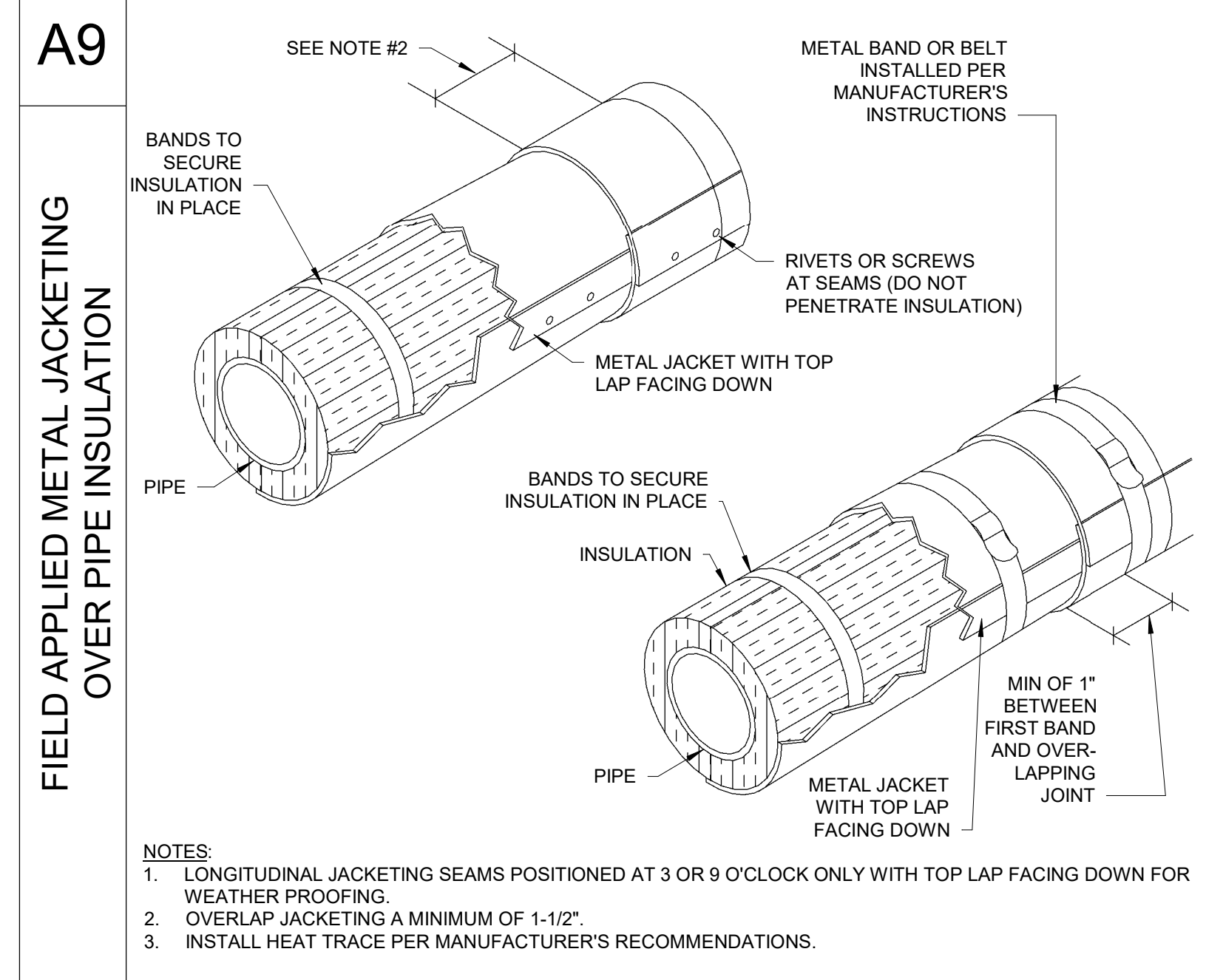
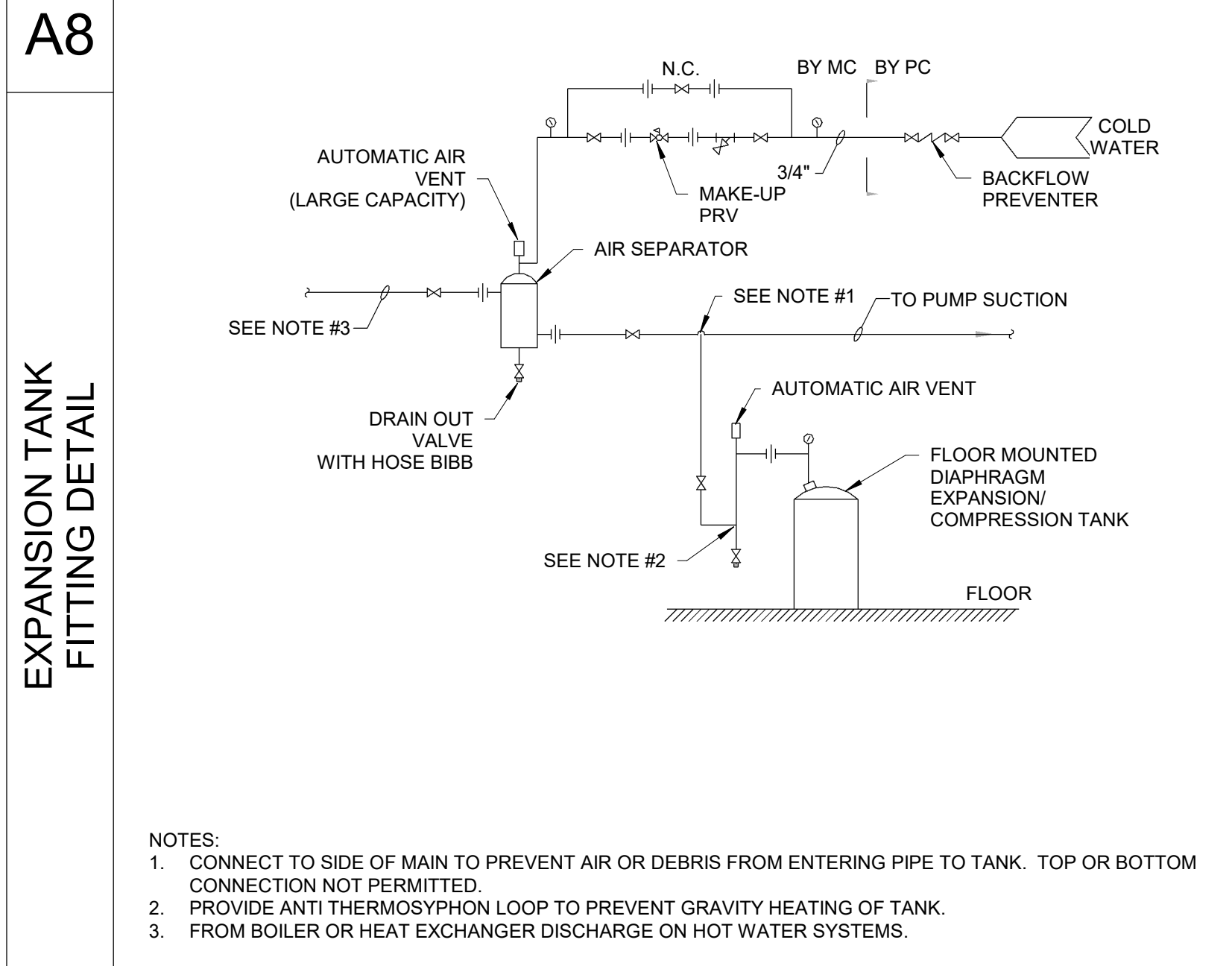
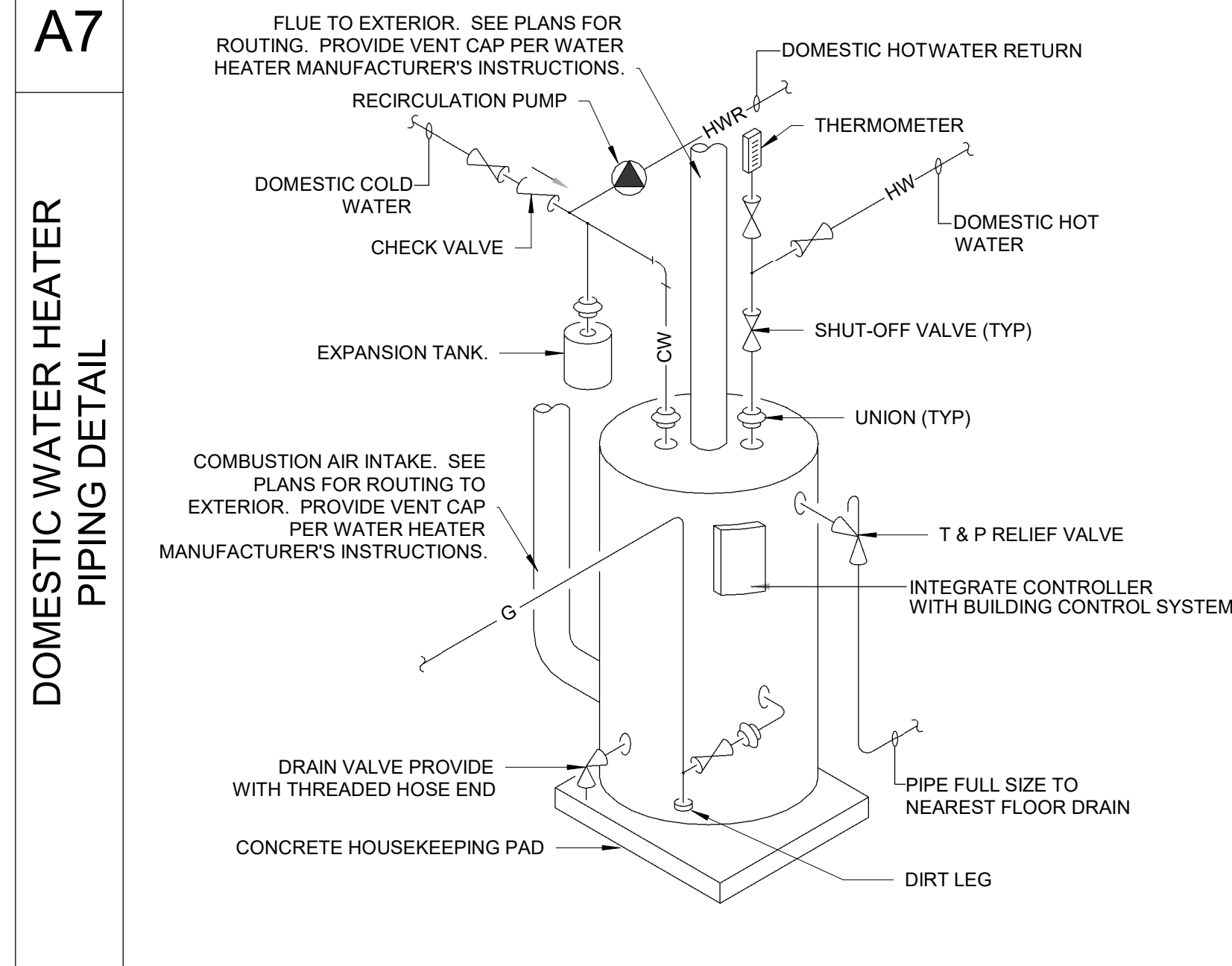
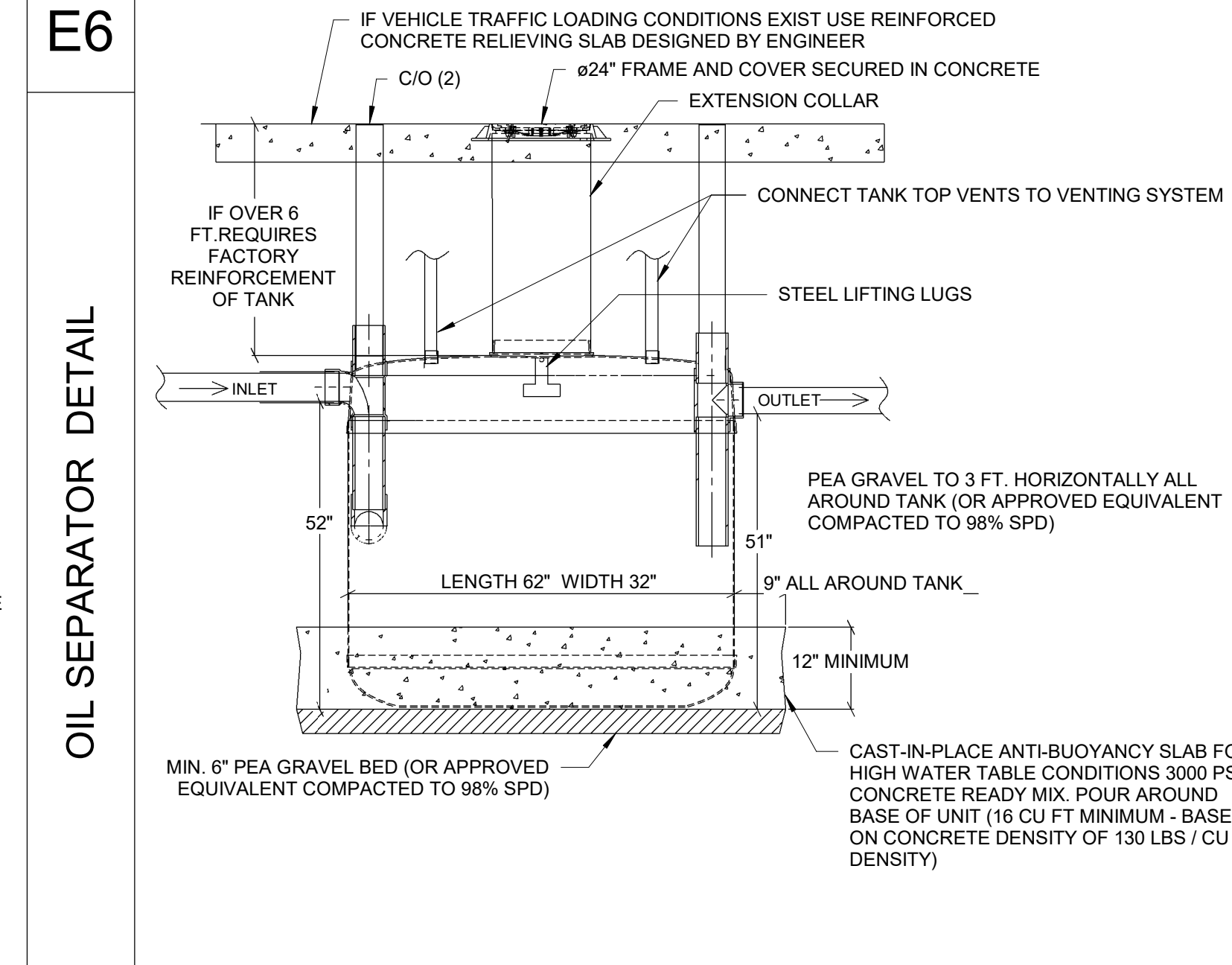
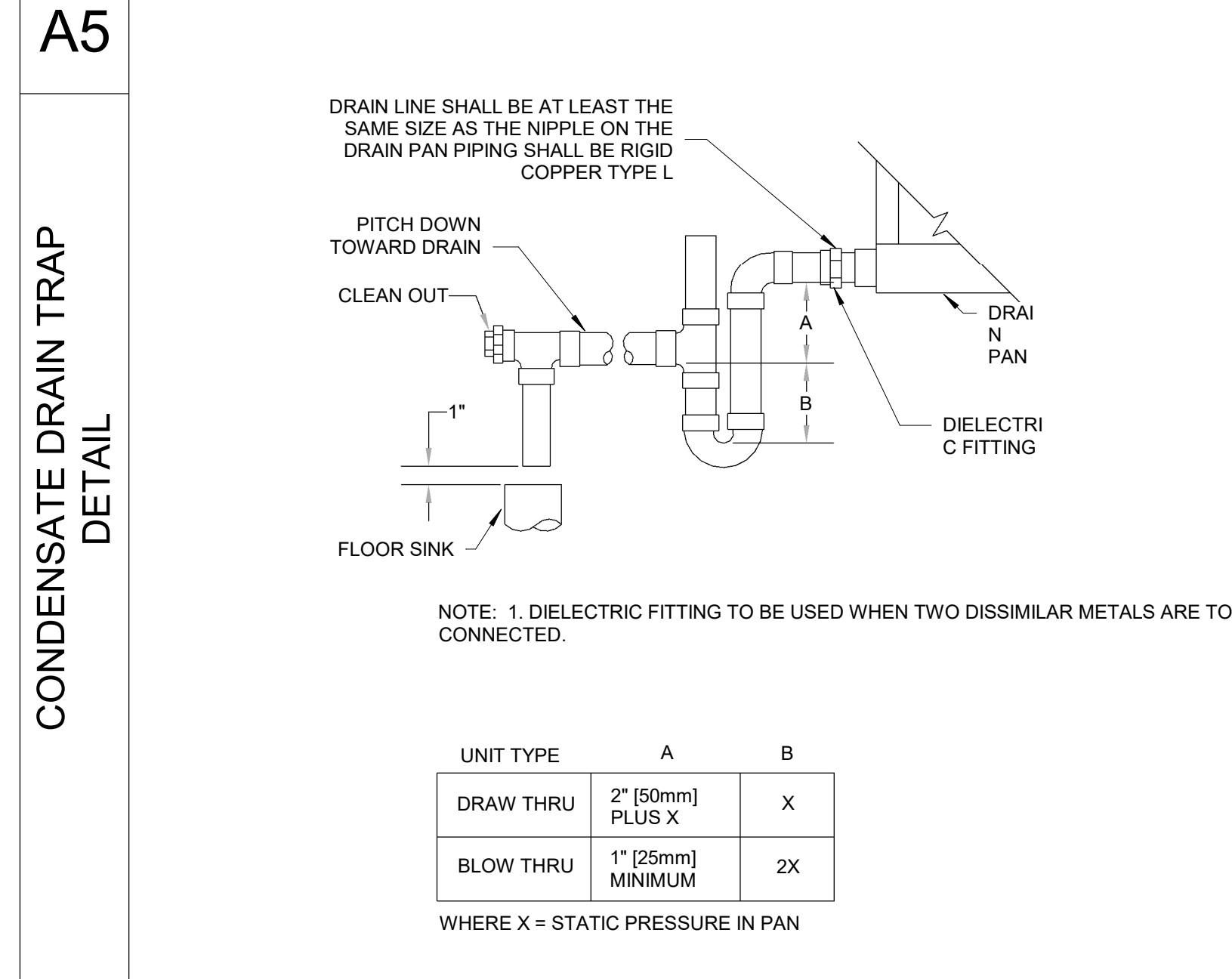
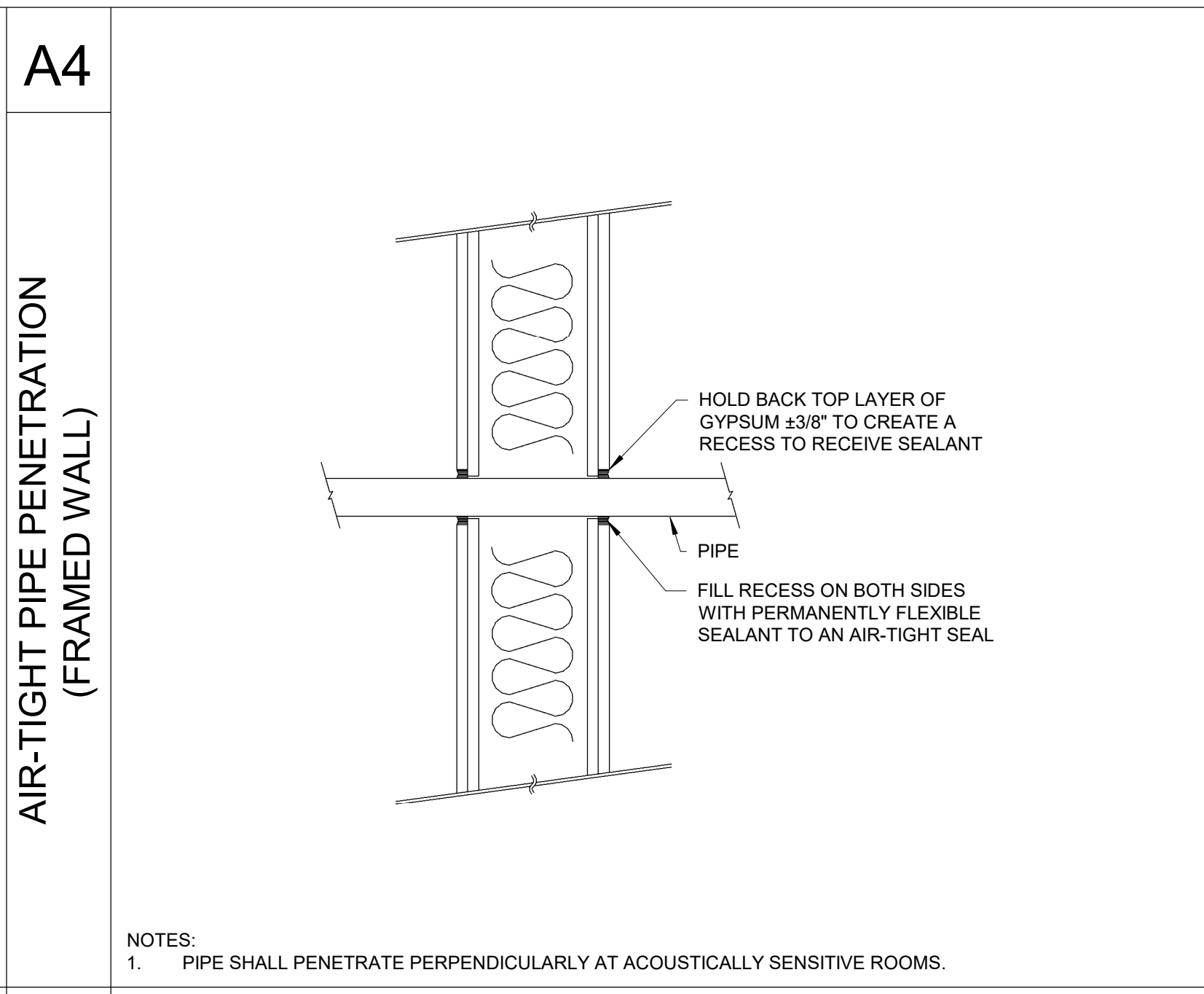
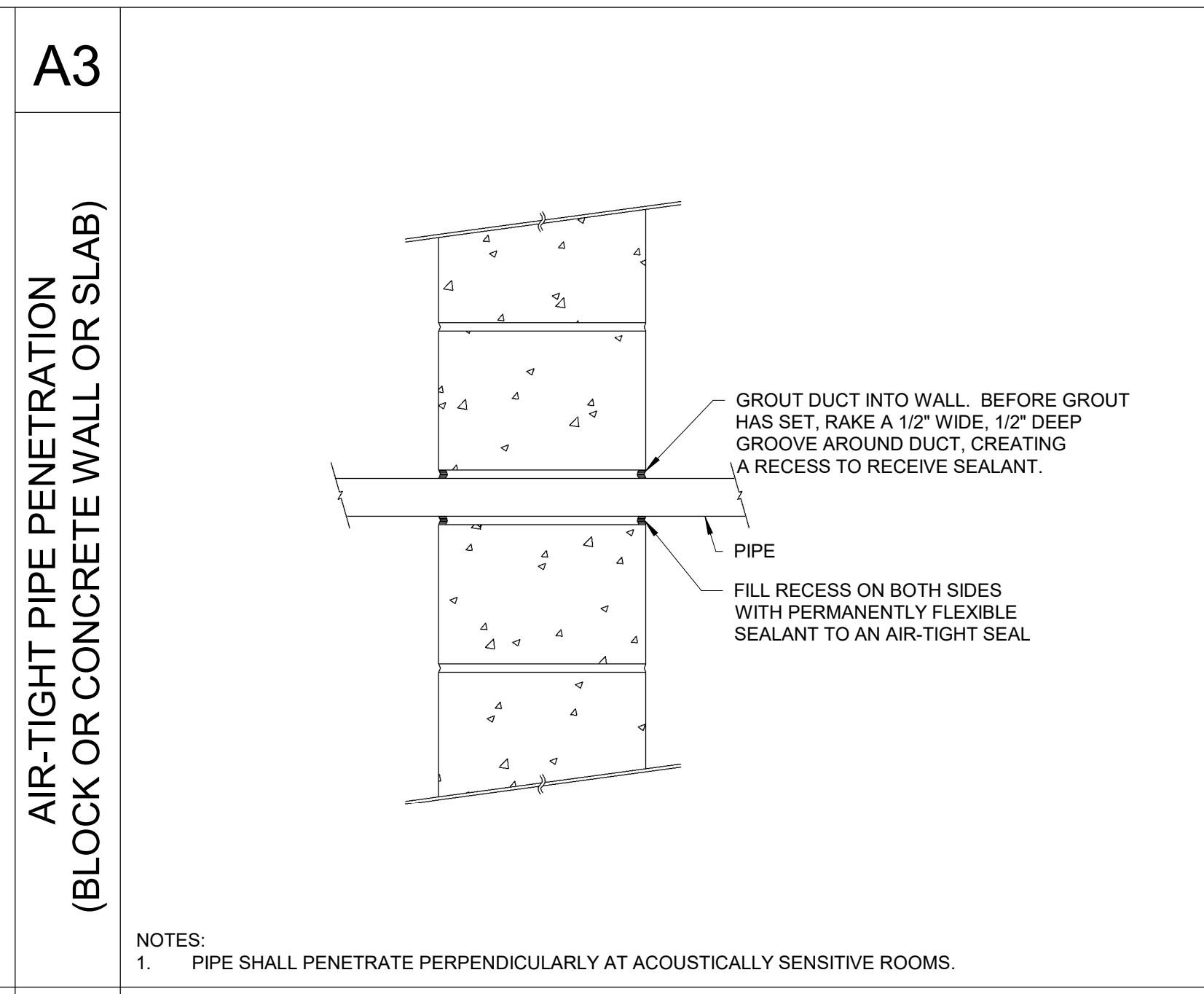
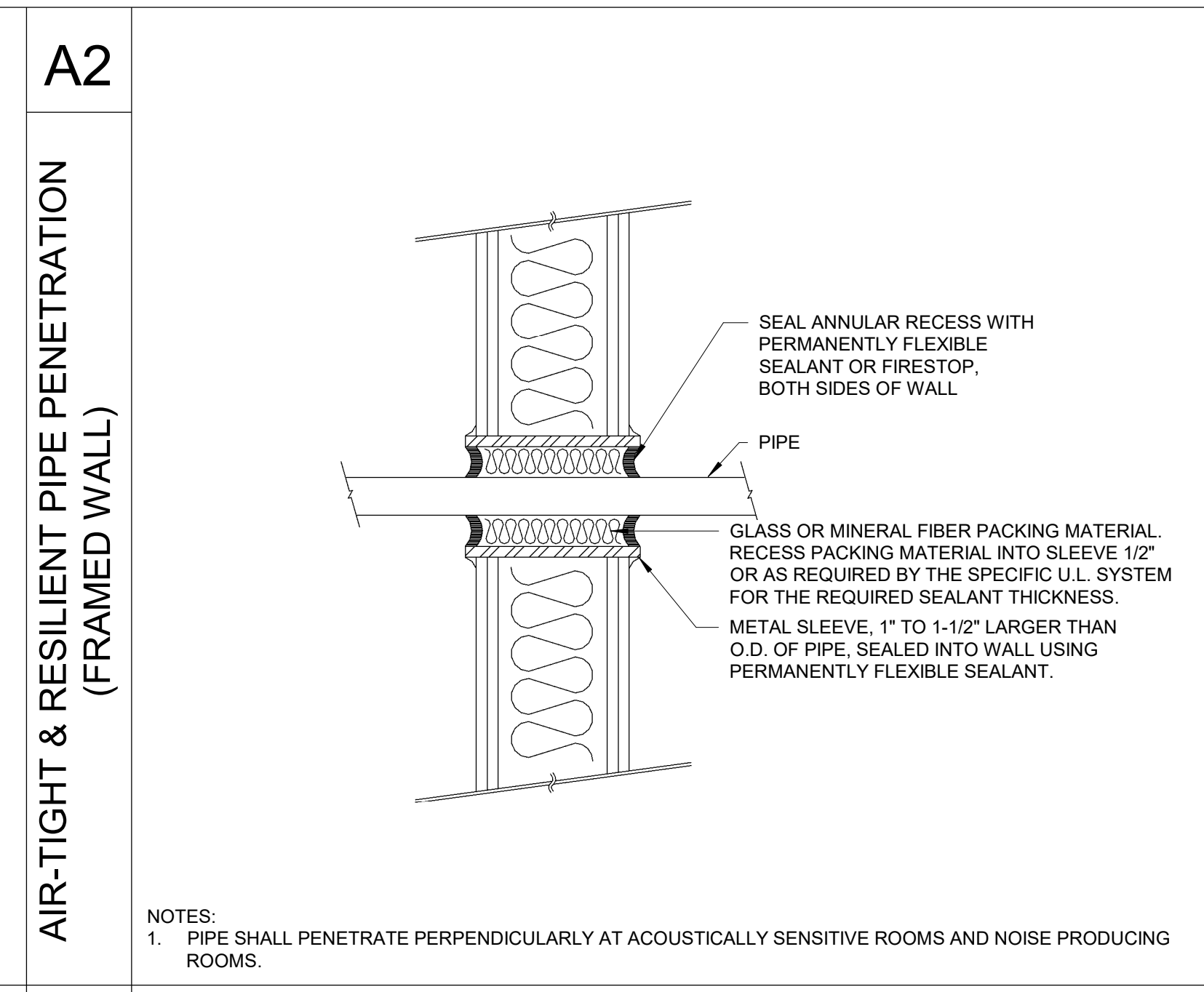
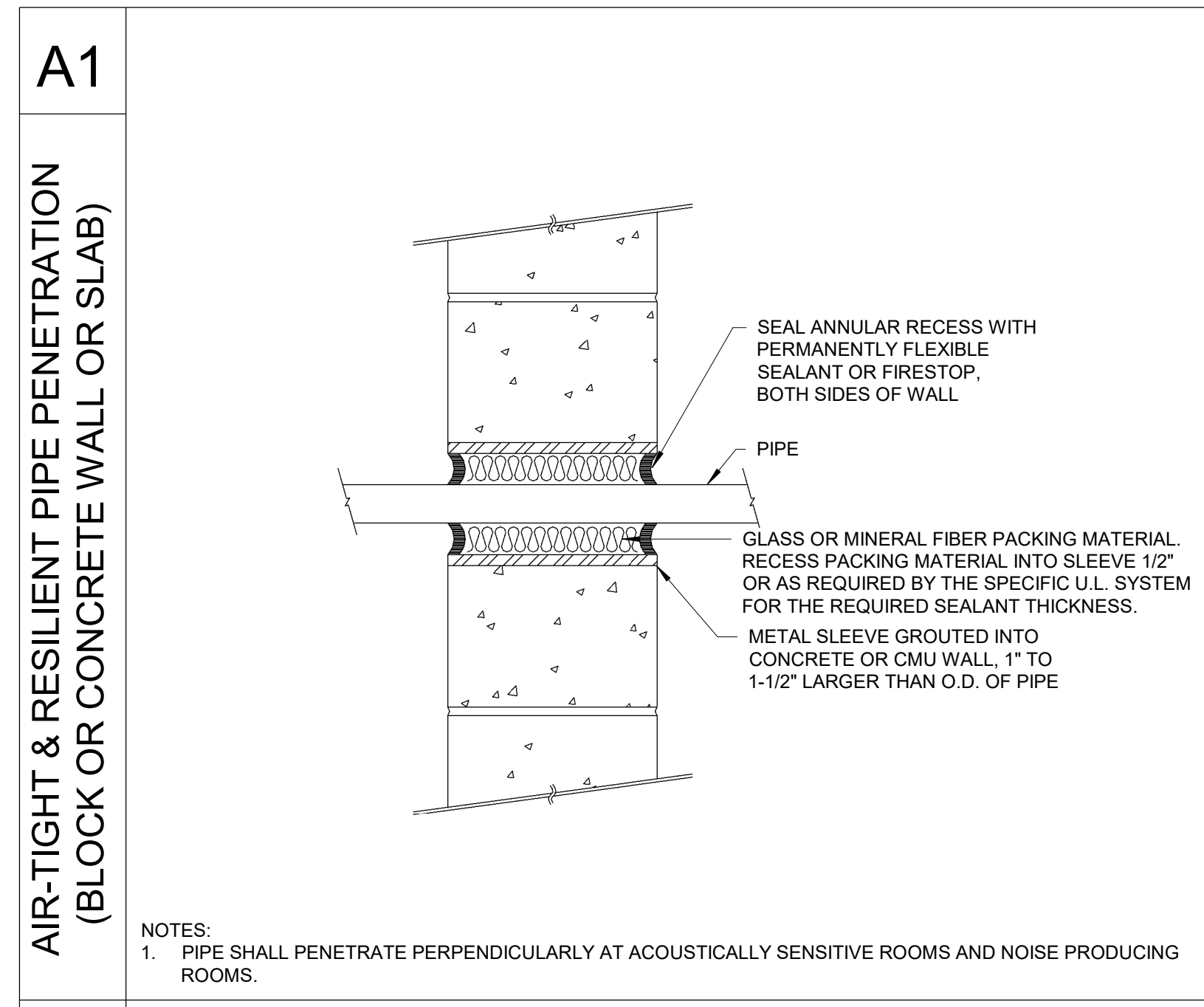
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P1.03 **PLUMBING ROOF PLAN**
Scale: 1/8" = 1'-0"

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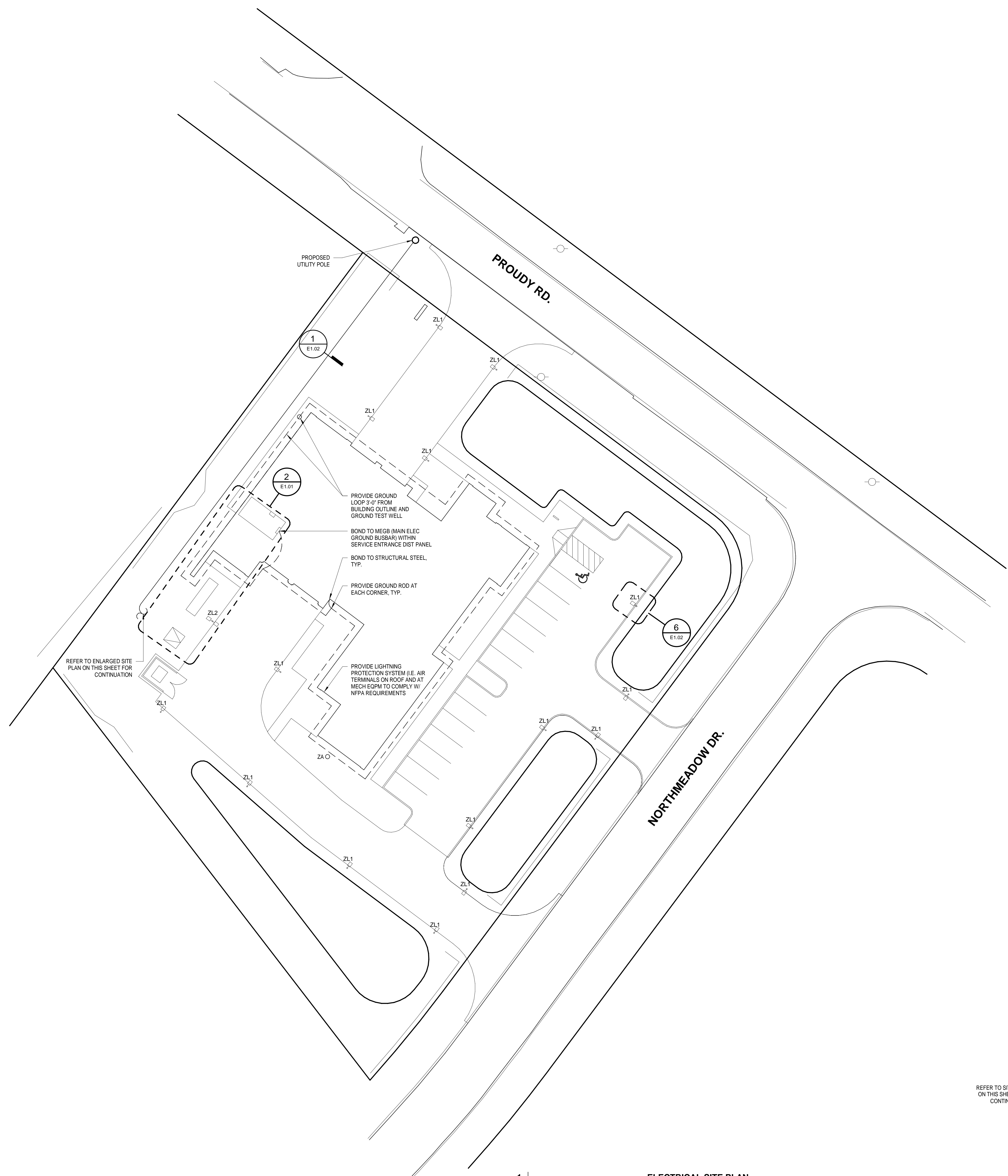
PLUMBING ROOF PLAN

P1.03

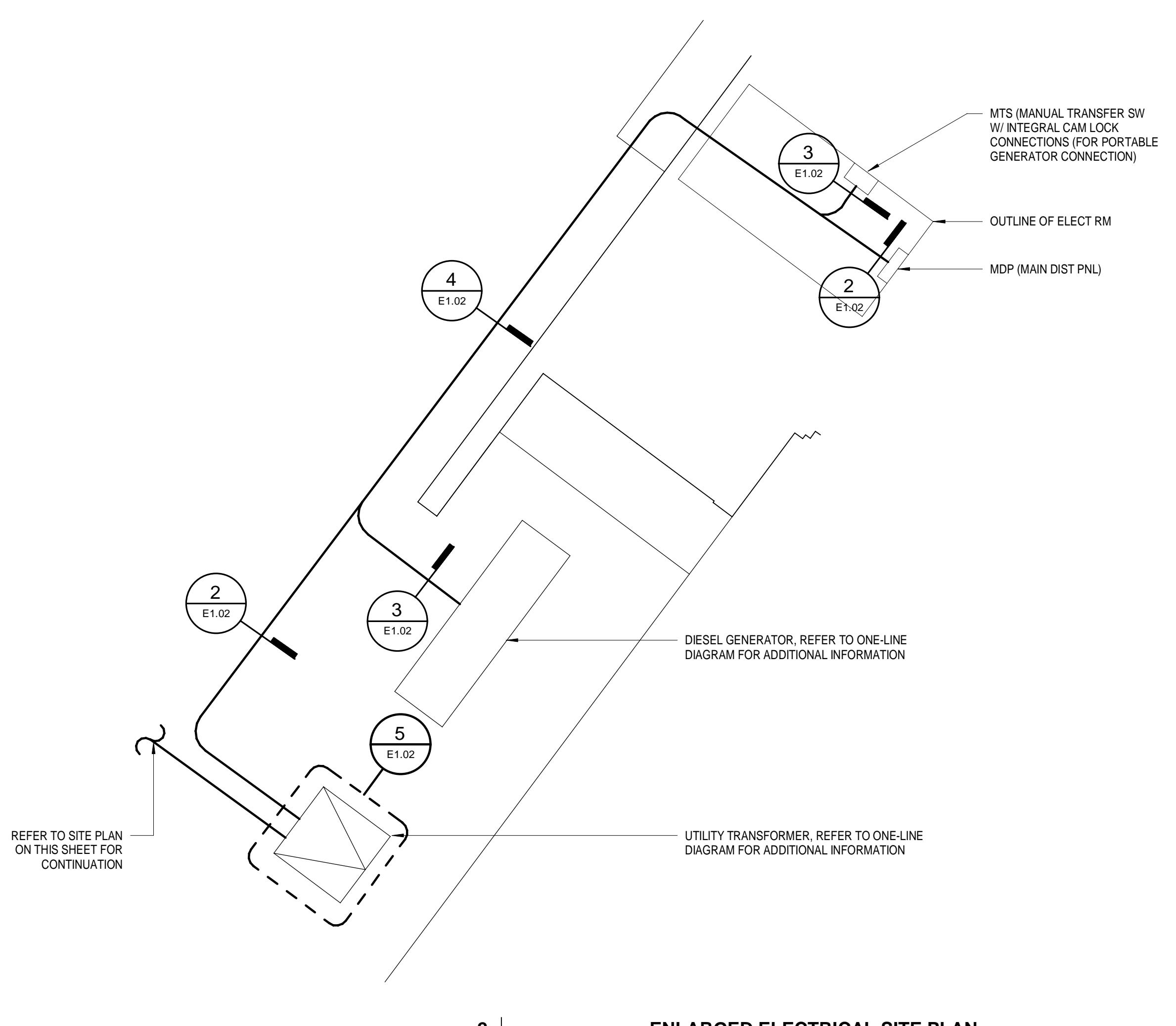
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CONCORD TOWNSHIP FIRE STATION #2
10154 PROUDY RD
CONCORD, OH 44077



1 | **ELECTRICAL SITE PLAN**
Scale: 1" = 20'-0"

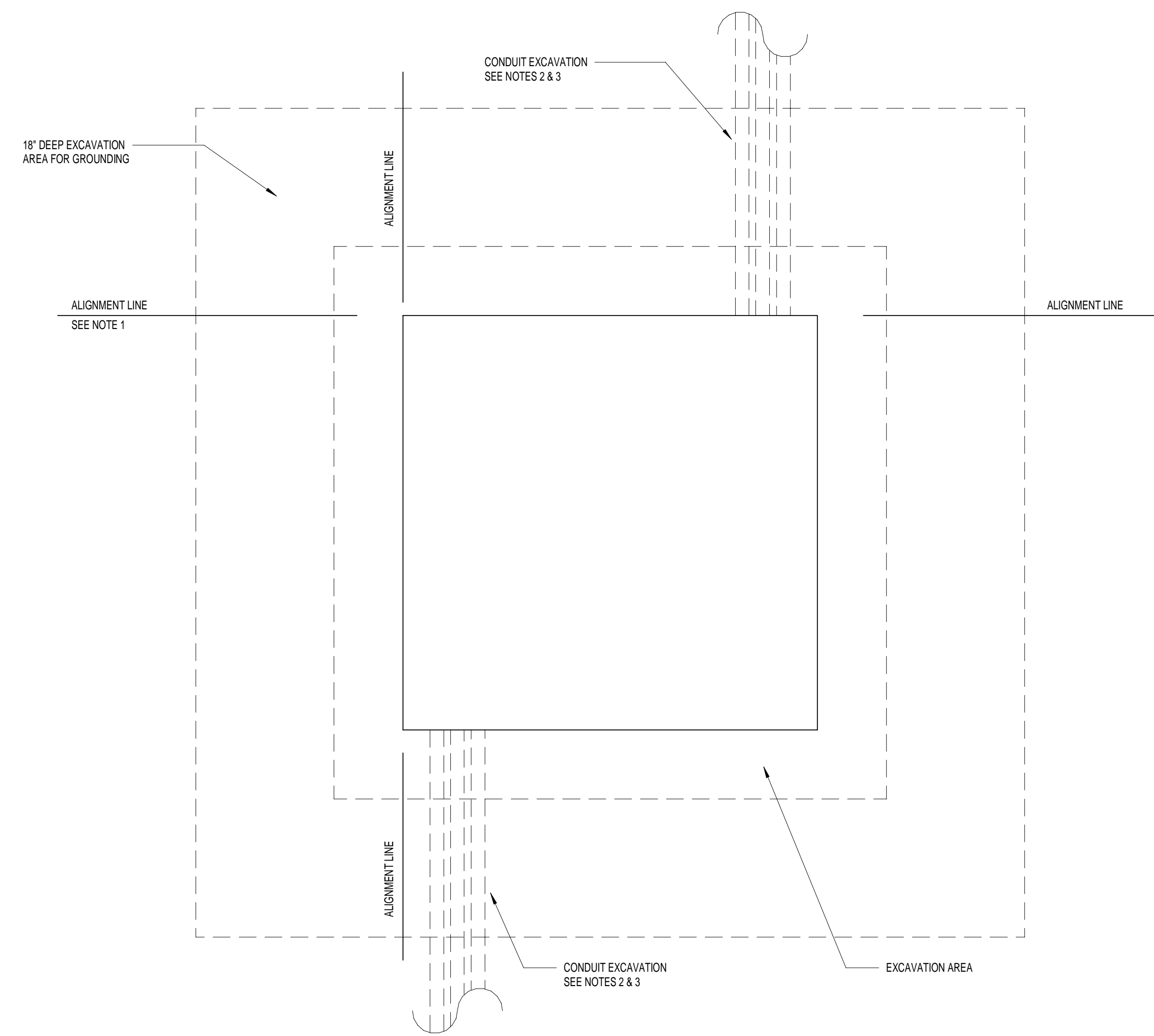
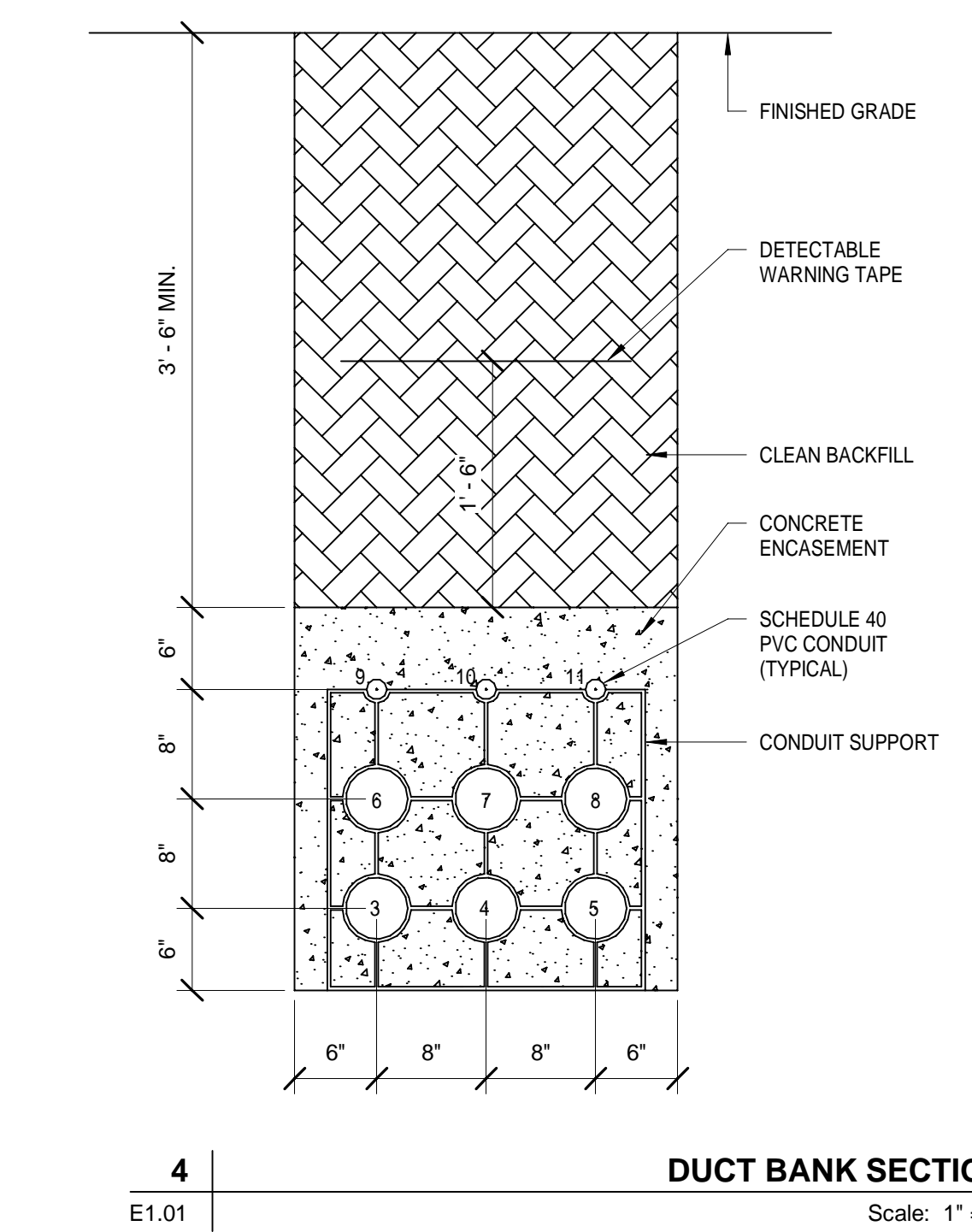
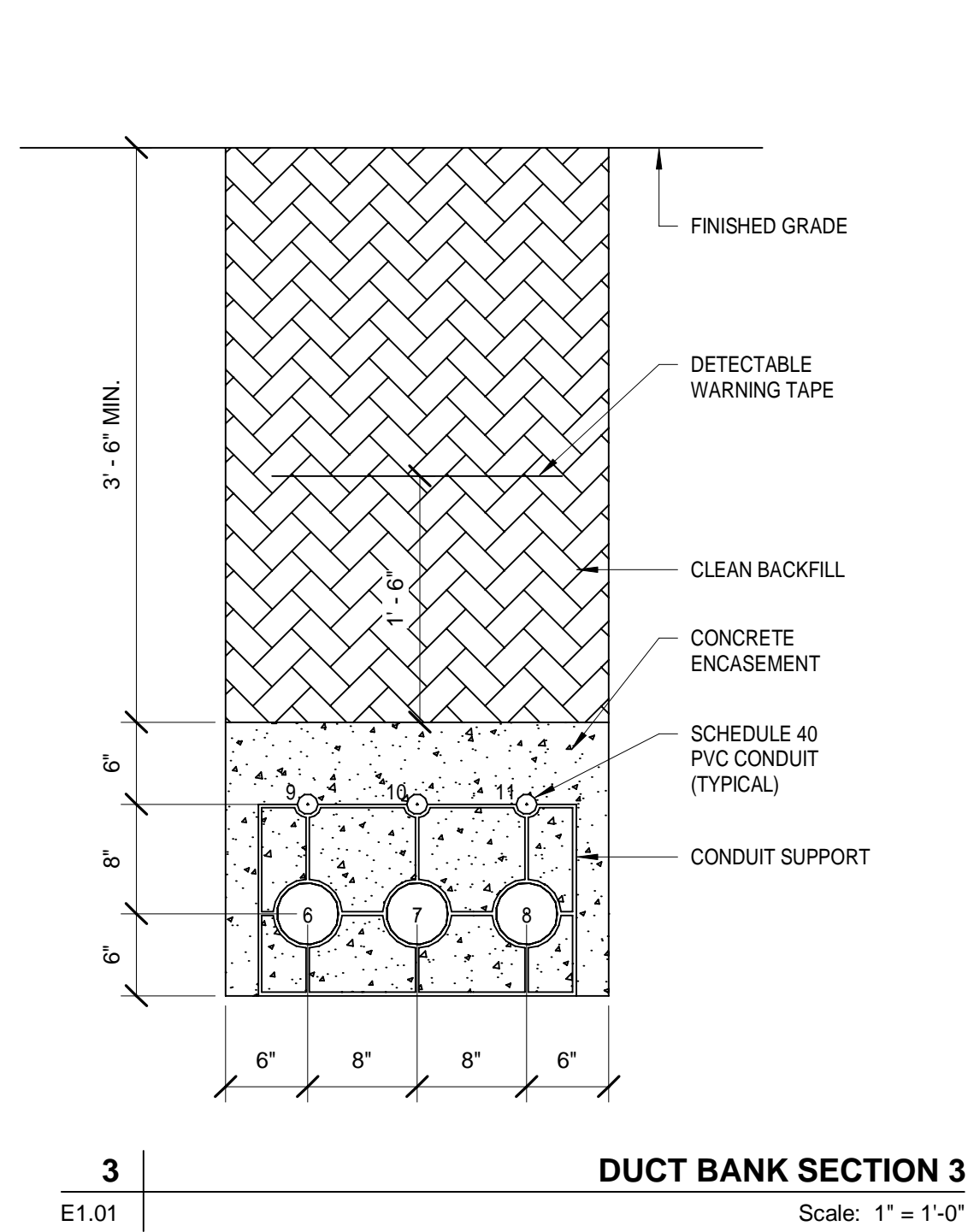
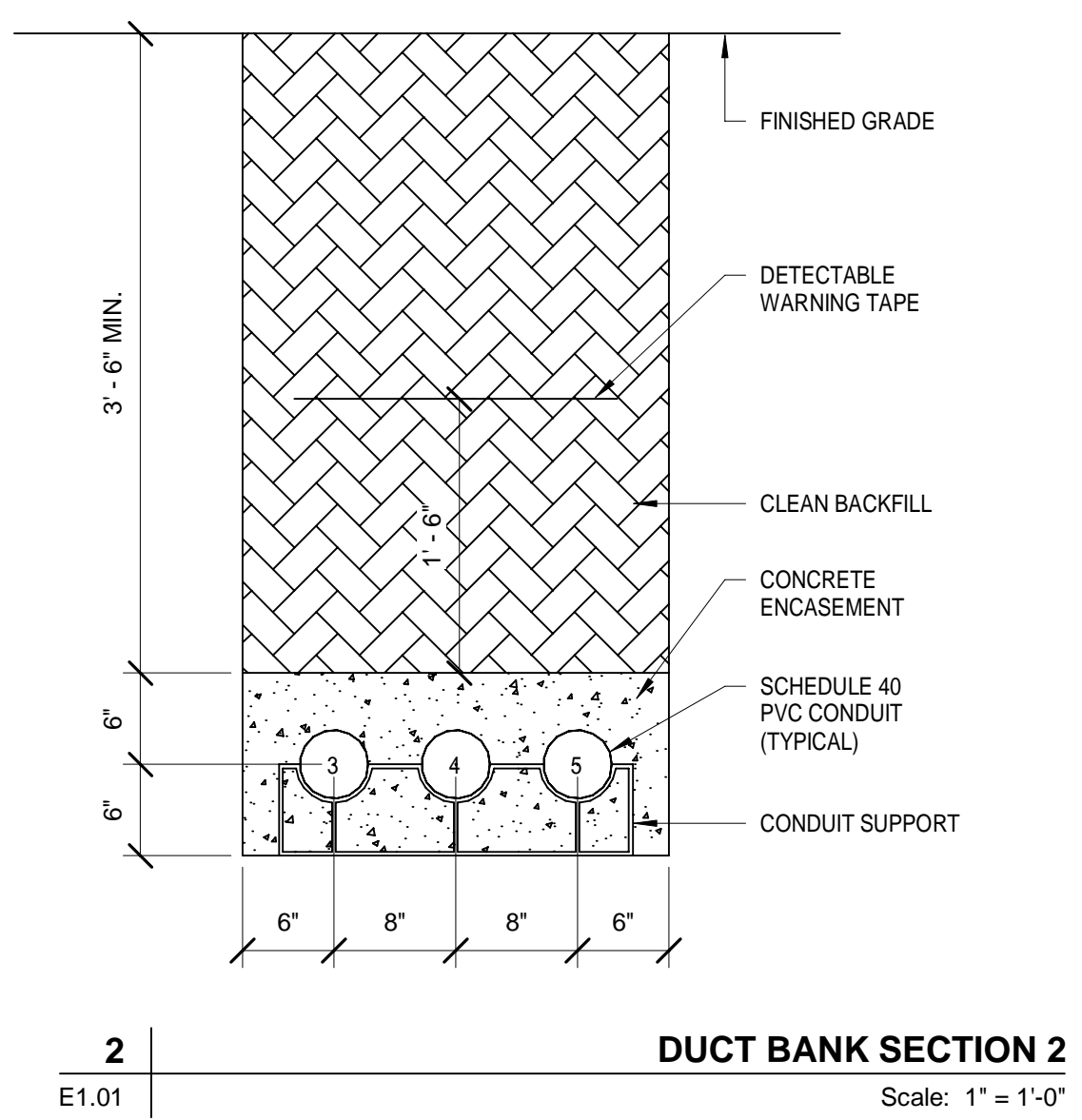
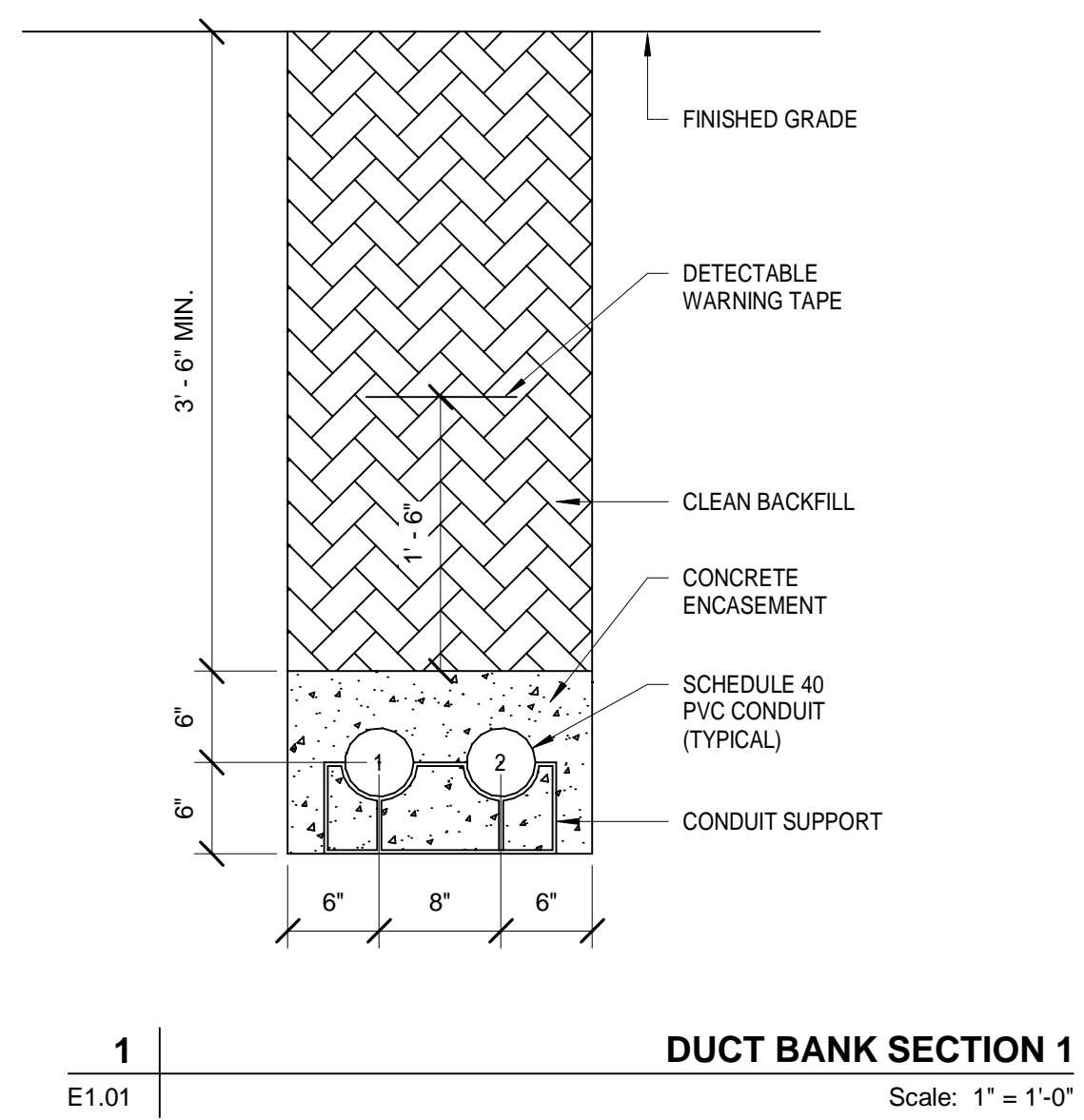


2 | **ENLARGED ELECTRICAL SITE PLAN**
Scale: 1/8" = 1'-0"

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DATE OF RECORD

ELECTRICAL SITE PLAN

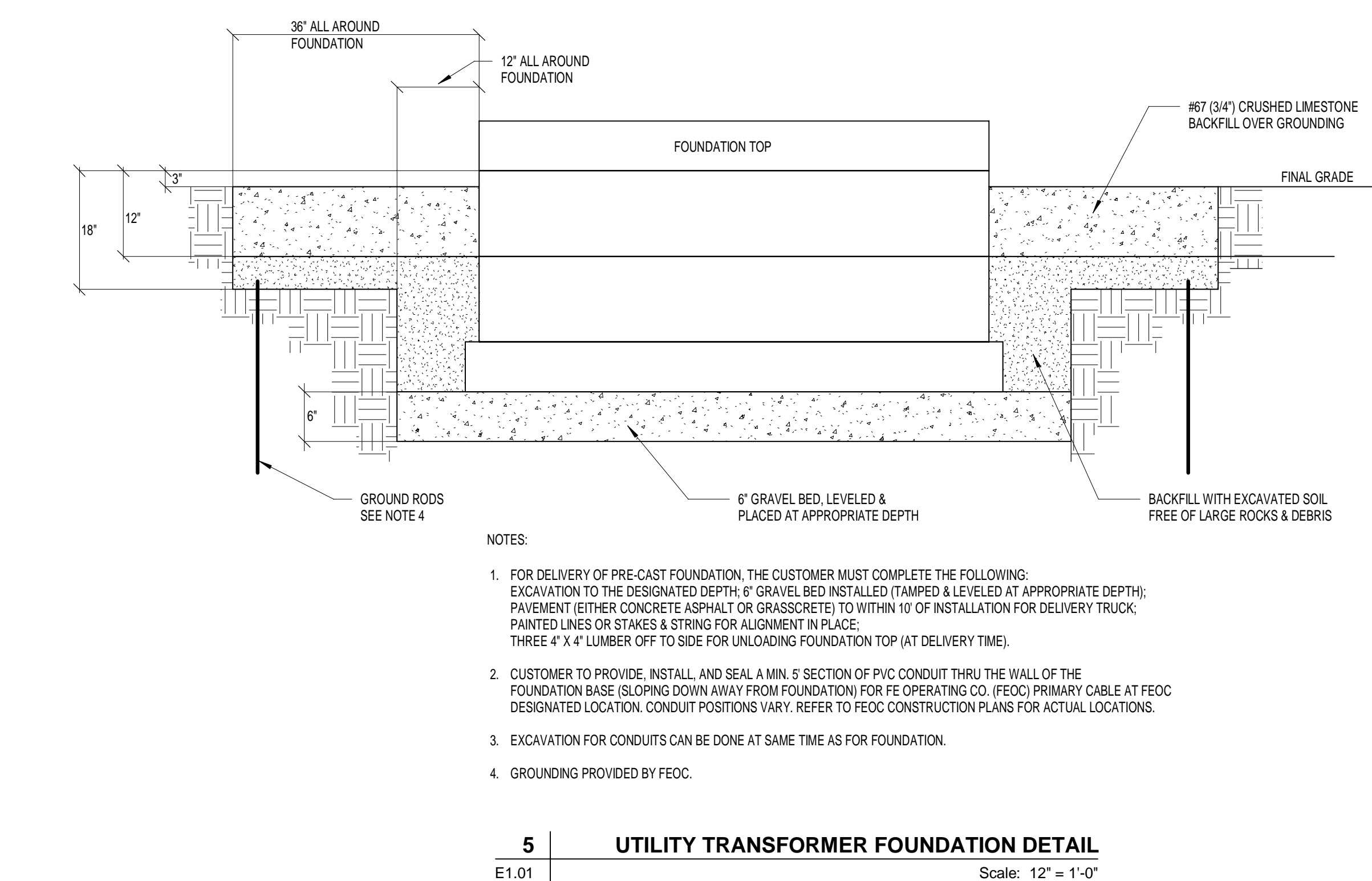
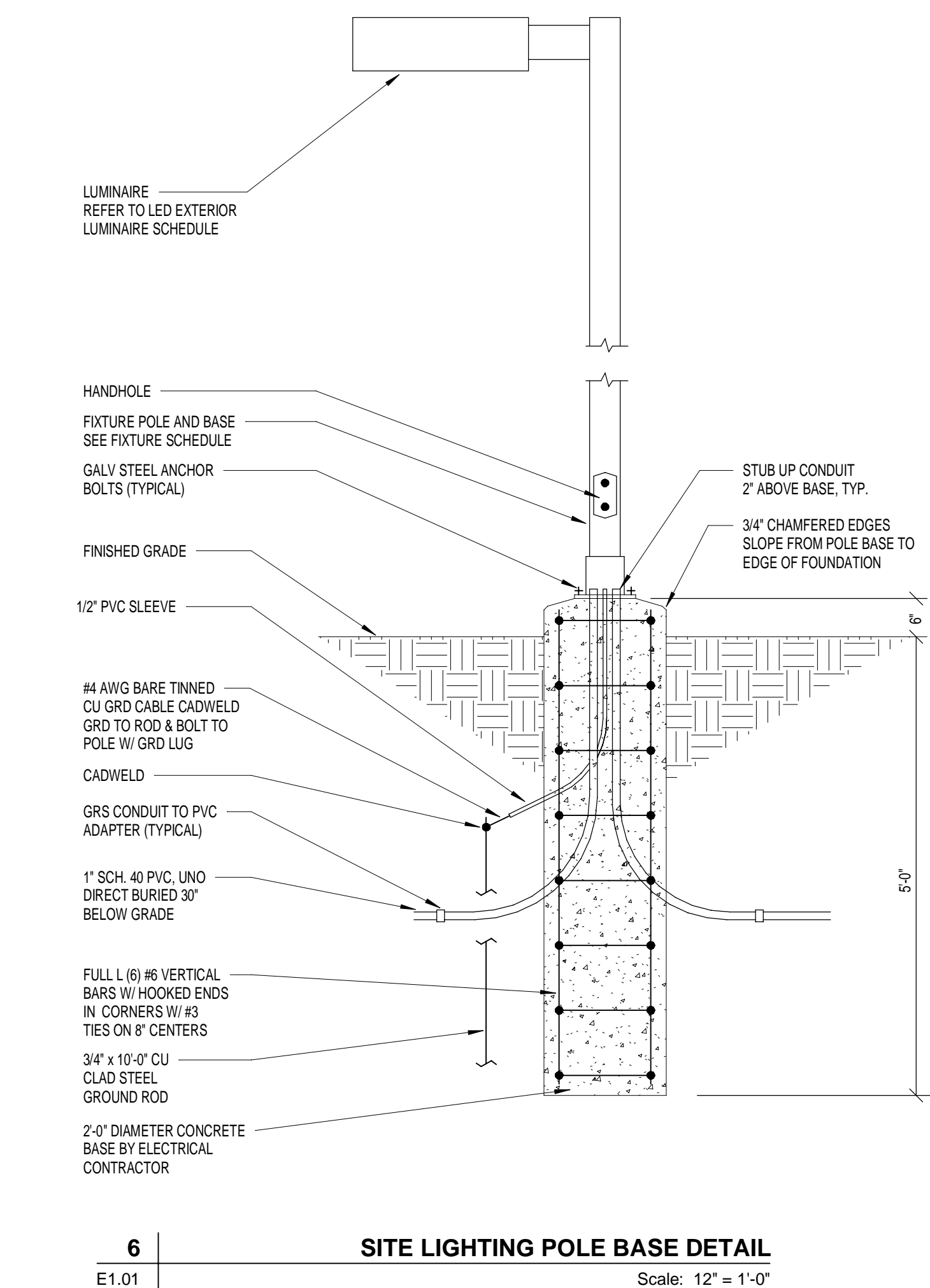
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NOTES:

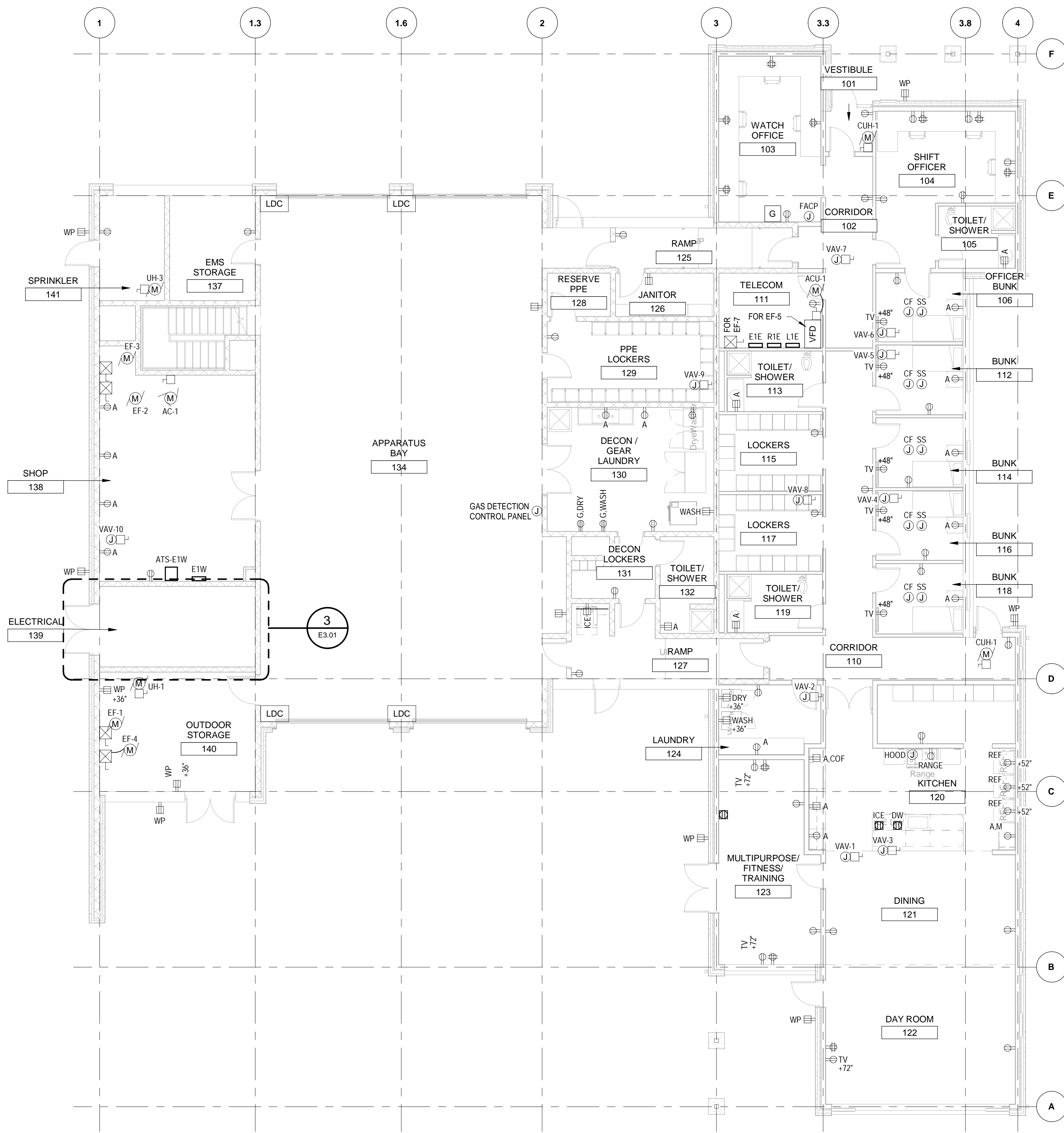
- ROCK AND/OR ADVERSE SOIL CONDITIONS MAY BE PRESENT ON SITE. THE ELECTRICAL CONTRACTOR SHALL COORDINATE INSTALLATION REQUIREMENTS FOR BELOW GRADE WORK WITH GEOTECHNICAL REPORT, AND SHALL INCLUDE IN HIS BID ANY WORK RELATED TO GEOTECHNICAL CONSIDERATIONS AS IT MAY PERTAIN TO THE INSTALLATION OF ELECTRICAL DUCT BANKS.
- IF 3'-0" MINIMUM COVER REQUIREMENTS CAN NOT BE MAINTAINED, CONTACT THE ENGINEER FOR DIRECTION.
- PROVIDE REINFORCING BARS PER SPEC SECTION 260543.
- FOR ALL ADDITIONAL INSTALLATION REQUIREMENTS REFER TO SPEC SECTION 260543.

CONDUIT SCHEDULE			
TAG	SIZE	FROM	TO
1	4"	PROPOSED UTILITY POLE	UTILITY TRANSFORMER (SPARE W/ PULL WIRE, STUB-UP, AND CAP)
2	4"	PROPOSED UTILITY POLE	UTILITY TRANSFORMER
3	4"	UTILITY TRANSFORMER	ELEC RM 139 MDP (MAIN DISTRIBUTION PANEL)
4	4"	UTILITY TRANSFORMER	ELEC RM 139 MDP (MAIN DISTRIBUTION PANEL)
5	4"	UTILITY TRANSFORMER	ELEC RM 139 MDP (MAIN DISTRIBUTION PANEL)
6	4"	GENERATOR	ELEC RM 139 MTS (MANUAL TRANSFER SWITCH)
7	4"	GENERATOR	ELEC RM 139 MTS (MANUAL TRANSFER SWITCH)
8	4"	GENERATOR	ELEC RM 139 MTS (MANUAL TRANSFER SWITCH)
9	1"	GENERATOR CONTROL PANEL	GENERATOR ANNUNCIATOR PANEL AND FACP
10	1"	GENERATOR CONTROL PANEL	ELEC RM 139 ATS-LS, ATS-DP1, ATS-RTU STARTING CKTS
11	1"	GEN JACKET WATER HTR & BATT CHARGER	ELEC RM 139 PANEL E1W

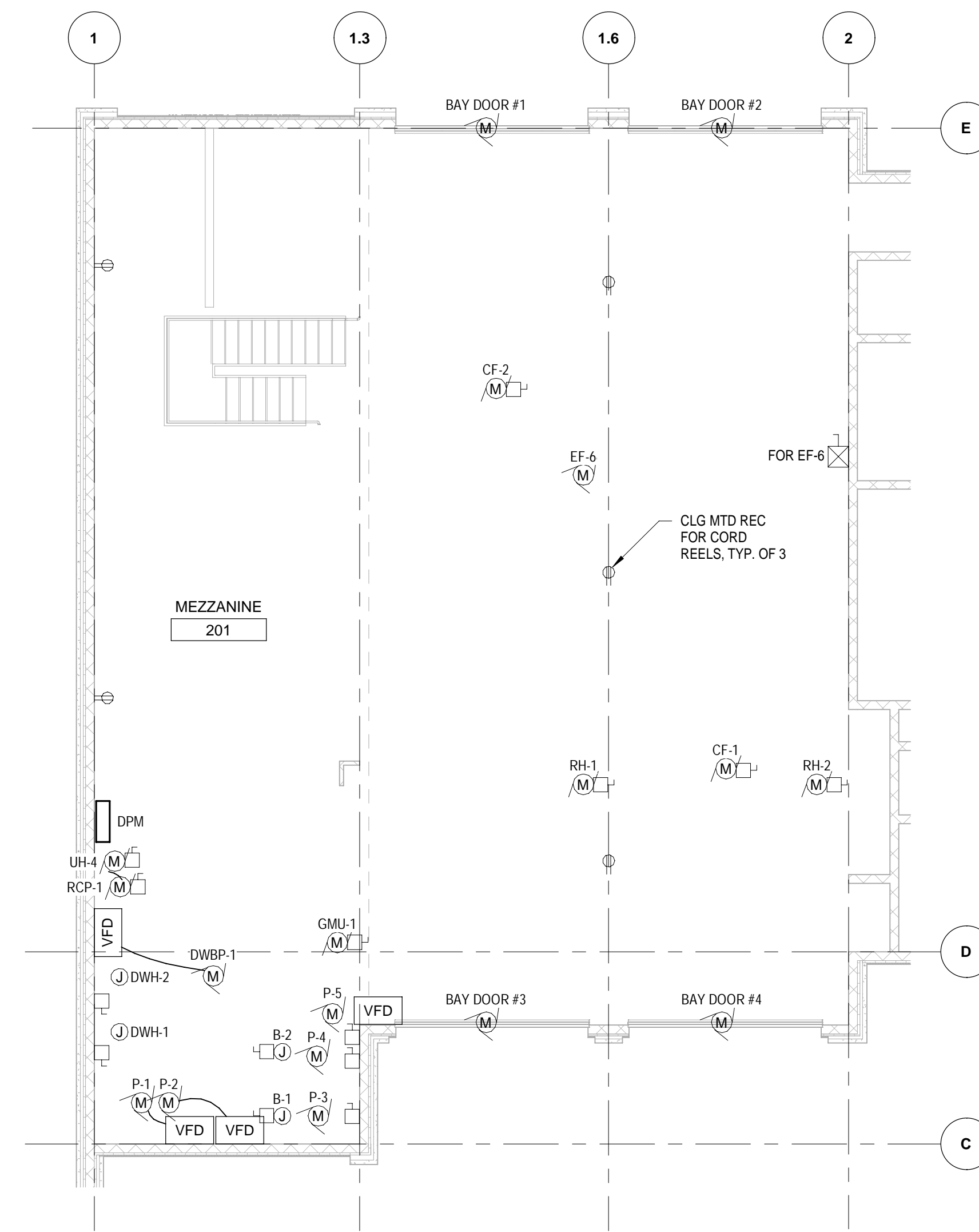


- NOTES:
- FOR DELIVERY OF PRE-CAST FOUNDATION, THE CUSTOMER MUST COMPLETE THE FOLLOWING: EXCAVATION TO THE DESIGNATED DEPTH; 6" GRAVEL BED INSTALLED, TAMPED & LEVELED AT APPROPRIATE DEPTH; PAVEMENT (EITHER CONCRETE ASPHALT OR GRASSCRETE) TO WITHIN 10' OF INSTALLATION FOR DELIVERY TRUCK; PAINTED LINES OR STAKES & STRING FOR ALIGNMENT IN PLACE; THREE 4" x 4" LUMBER OFF TO SIDE FOR UNLOADING FOUNDATION TOP (AT DELIVERY TIME).
 - CUSTOMER TO PROVIDE, INSTALL, AND SEAL A MIN. 5' SECTION OF PVC CONDUIT THRU THE WALL OF THE FOUNDATION BASE (SLOPING DOWN AWAY FROM FOUNDATION); FOR FE OPERATING CO. (FECO) PRIMARY CABLE AT FECO DESIGNATED LOCATION. CONDUIT POSITIONS VARY. REFER TO FECO CONSTRUCTION PLANS FOR ACTUAL LOCATIONS.
 - EXCAVATION FOR CONDUITS CAN BE DONE AT SAME TIME AS FOR FOUNDATION.
 - GROUNDING PROVIDED BY FECO.

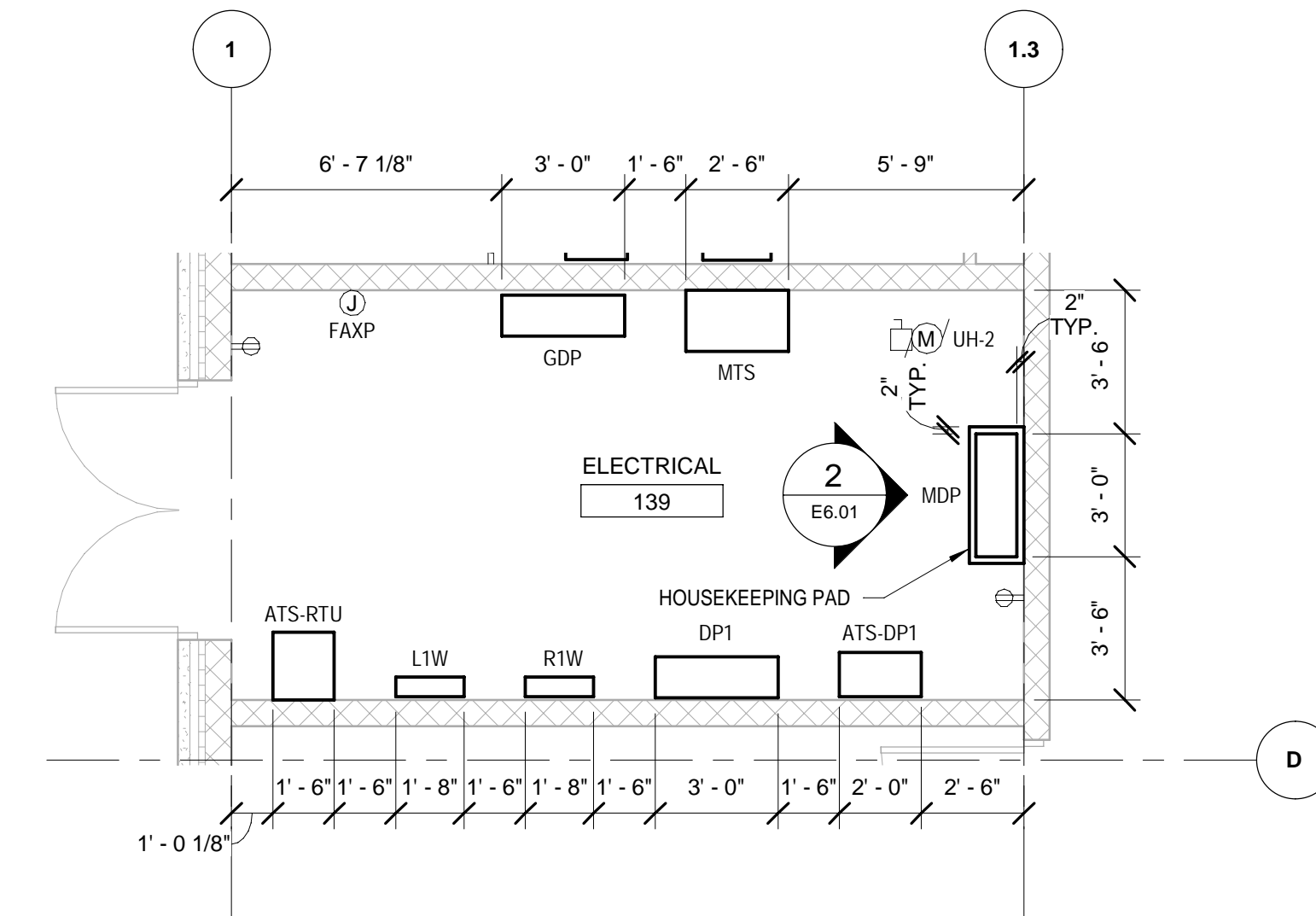
CONCORD TOWNSHIP FIRE STATION #2
10154 PROUTY RD
CONCORD, OH 44077



1 FIRST FLOOR POWER PLAN
Scale: 1/8" = 1'-0"



2 MEZZANINE POWER PLAN
Scale: 1/8" = 1'-0"



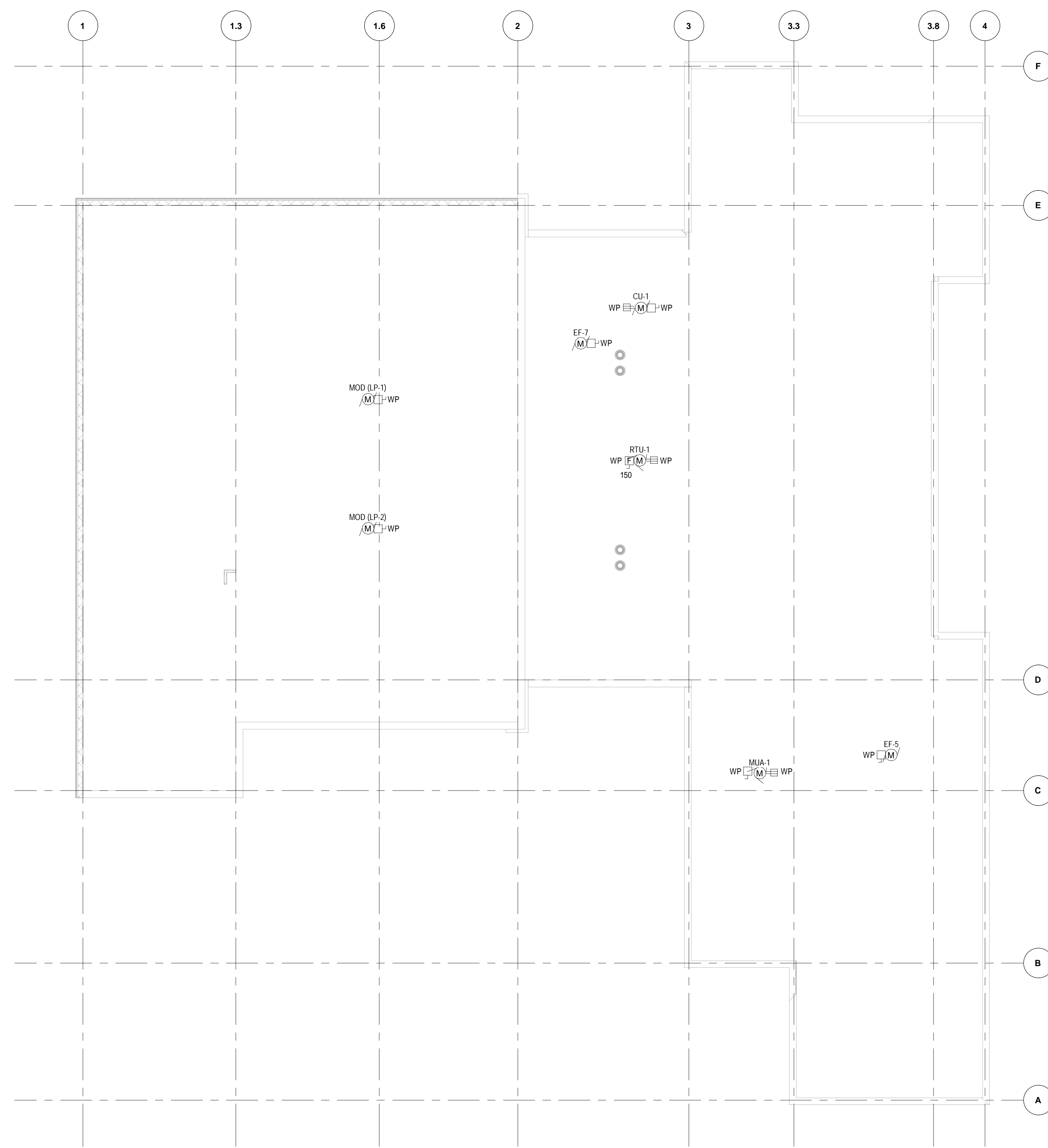
3 FIRST FLOOR ENLARGED POWER PLAN
Scale: 1/4" = 1'-0"

SEAL
DATE OF RECORD

FIRST FLOOR AND
MEZZANINE
POWER PLANS

E3.01

PROJECT NO. 60593642



1 **ROOF POWER PLAN**
Scale: 1/8" = 1'-0"

SEAL
DATE OF RECORD

ROOF POWER PLAN

E3.02

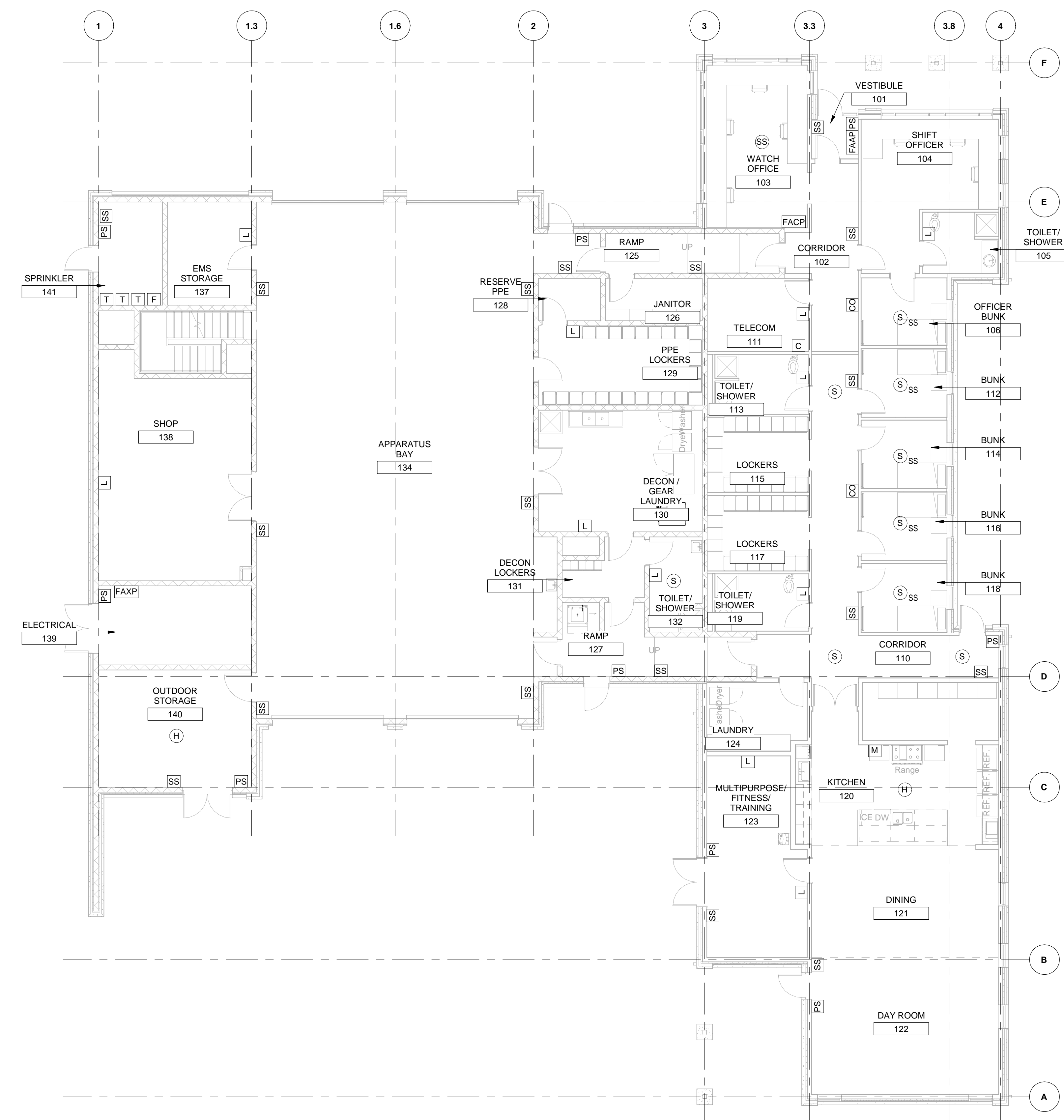
CONCORD TOWNSHIP FIRE STATION #2
10154 PROUTY RD
CONCORD, OH 44077

**FIRST FLOOR AND
MEZZANINE FIRE
ALARM PLANS**

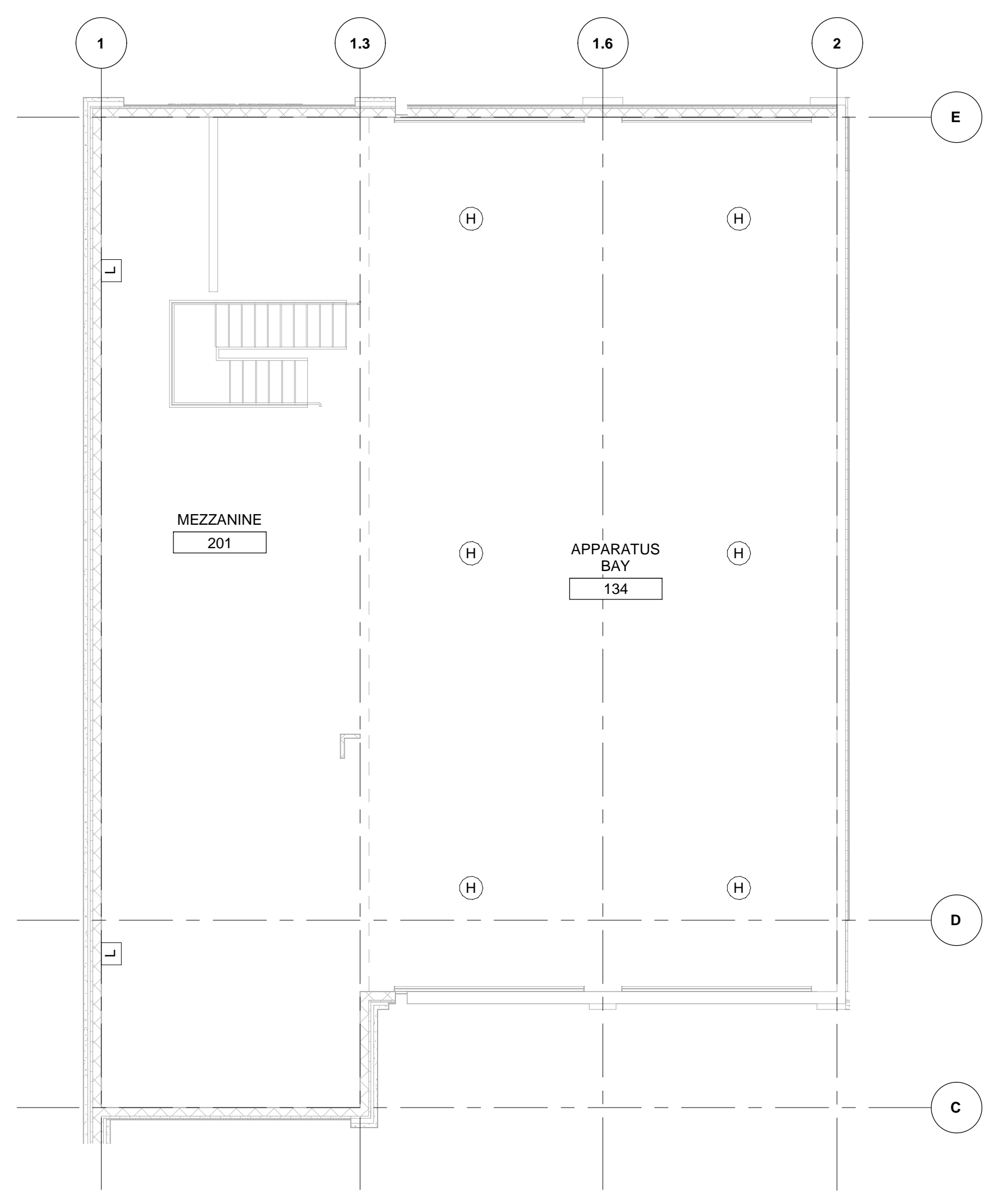
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PROJECT NO. 60593642

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DATE OF RECORD



1 | FIRST FLOOR FIRE ALARM PLAN
Scale: 1/8" = 1'-0"



2 | MEZZANINE FIRE ALARM PLAN
Scale: 1/8" = 1'-0"

LED INTERIOR LUMINAIRE SCHEDULE							
TYPE	LAMPS	120V	208V	DESCRIPTION	MANUFACTURER	MODEL	COMMENTS
AA	16W/LED 2000 LUMENS 4000°K, 85 CRI	Yes	No	2' x 2' RECESSED LED ARCHITECTURAL STYLE FIXT W/ EXTRUDED AL HOUSING; HIGH EFFICACY LUMEN OUTPUT; SMOOTH FROSTED ACRYLIC LENS; 0-10V DIMMING DRIVER; LM79/ML80 COMPLIANT; AND MAX OVERALL DEPTH OF 3.25"	EATON METALUX OR A/E APPROVED EQUAL	Z2CZ2	
DA	11W/LED 1000 LUMENS 3500°K, 80 CRI	Yes	No	RECESSED LED DOWNLIGHT W/ 6" ROUND APERTURE; CLEAR SPECULAR MEDIUM REFLECTOR; WHIT TRIM RING; COMPLETE W/ MOUNTING BRACKET; PRE-WIRED JUCTION BOX; AND 0-10V DIMMING DRIVER; MAIXIMUM DEPTH 7"	COOPER PORFOLIO LITHONIA PRESCOLITE	LD6B LDN6 LF6SL	
DC	11W/LED 1000 LUMENS 3500°K, 80 CRI	Yes	No	SAME AS TYPE "DA" EXCEPT W/ IP66 GASKET KIT	EATON PORTFOLIO LITHONIA PRESCOLITE	LD6B LDN6 LF6SL	
DD	9W/LED 600 LUMENS, 3500°K, 80 CRI	Yes	No	RECESSED LED NON-CONDUCTIVE SHOWER LIGHT W/ 6" ROUND APERTURE; WHITE DEAD FRONT RECESSED TRIP; UL WET LOCATION LISTED; COMPLETE W/ MTG BRACKET; PRE-WIRED JB; AND 0-10V DIMMING DRIVER; MAX DEPTH 8"	EATON HALO LITHONIA PRESCOLITE	H750CAT LDN6 LF6SL	
FA	16.4W/LED 2000 LUMENS 3500°K, 85 CRI	Yes	No	4' LONG x 3" NOMINAL WIDE PENDANT MOUNTED LED STRIP LIGHT W/ DIE-FORMED STEEL HOUSING; CLEAR LENS; BACKED WHITE ENAMEL FINISH; 0-10V DIMMING DRIVER; WIREGUARD; AND CHAIN HANGER SET	COOPER METALUX LITHONIA HUBBELL COLUMBIA	SNLED ZL1N LCL	MOUNT 8'-0" AFF. TO BOF.
FB	16.4W/LED 2000 LUMENS 3500°K, 85 CRI	Yes	No	SAME AS TYPE "FA" EXCEPT 8' LONG	COOPER METALUX LITHONIA HUBBELL COLUMBIA	SNLED ZL1N LCL	MOUNT 8'-0" AFF. TO BOF.
NA	LED	Yes	No	5" x 5" WALL MOUNTED LED NIGHTLIGHT; AMBER COLOR LED'S, WHITE ANTI-MICROBIAL FACEPLATE; AND WHITE FINISH	KIRLIN	LNS-05086	MOUNT 2'-0" AFF. TO BOF.
PA	93W/LED 12000 LUMENS 3500°K, 80CRI	Yes	No	4' TAMPER RESISTANT LED VAOPPOPROOF FIXTURE W/ FIBERGLASS HOUSING AND HIGH IMPACT DIFFUSER; FROSTED ACRYLIC HIGH IMPACT LENS; STAINLESS STEEL LATCHES AND MOUNTING BRACKETS; NEMA 4X, IP65, AND IP67 RATED; RATED UP TO 1500PSI HOUSEDOWN; AND 0-10V DIMMING DRIVER	COOPER FAIL-SAFE	VRVT4	MOUNT 14'-0" AFF. TO BOF. (QTY OF 12) FOR ROWS AT & EAST OF COL 1.6. MOUNT 16'-6" TO BOF. FOR ROW NEAR COL 1.3 (QTY OF 6).
PB	8W/LED 667 LUMENS 3500°K, 80 CRI	Yes	No	6.34"DIA DECORATIVE PENDANT; COORDINATE SHADE, TRIM AND MOUNTING OPTIONS W/ ARCHITECT PRIOR TO ORDERING	COOPER SHAPER	1400	MOUNT 5'-6" AFF. TO BOF.
WA	16.4W/LED 2000 LUMENS 500 LUMENS/FT 3500°K, 80 CRI	Yes	No	4' WALL MOUNTED LED FIXT W/ LOW PROFILE HOUSING AND INTEGRAL GEAR TRAY CONSTRUCTED FROM DIE-FORMED 20 GA CRS FORMING A 4' x 1.5' PROFILE; FROSTED LENS, UL LISTED FOR DAMP LOCATIONS; WHITE FINISH; AND 0-10V DIMMING DRIVER	COOPER CORELITE PEERLESS HUBBELL LITECONTROL	JAYLUM (JW) BRUNO SAE103	MOUNT 8'-0" AFF. TO BOF.
WB	32.8W/LED 4000 LUMENS 500 LUMENS/FT 3500°K, 80 CRI	Yes	No	SAME AS TYPE "WA" EXCEPT 8' LONG	COOPER CORELITE PEERLESS HUBBELL LITECONTROL	JAYLUM (JW) BRUNO SAE103	MOUNT 8'-0" AFF. TO BOF.

EMERGENCY AND EXIT LUMINAIRE SCHEDULE							
TYPE	LAMPS	120V	208V	DESCRIPTION	MANUFACTURER	MODEL	COMMENTS
EA	1W/LED EVEN ILLUMINATION	Yes	No	SINGLE FACE EXIT W/ THERMOPLASTIC HOUSING. AC ONLY; LED LAMP MODULES; RED UNIFORMLY ILLUMINATED FACE; WHITE HOUSING FINISH; UL 924 LISTED; UNIVERSAL ARROWS; AND REFER TO PLANS FOR WALL AND PENDANT MOUNTED	ISOLITE LITHONIA HUBBELL DUAL-LITE	RL LQM EVE	MOUNT 8'-0" AFF. TO BOF. WIRE AHEAD OF LOCAL SWITCHING, CHEVRONS AS INDICATED ON PLANS. WIRE AHEAD OF LOCAL SWITCHING
EB	1W/LED EVEN ILLUMINATION	Yes	No	SAME AS TYPE "XA" EXCEPT DOUBLE FACE	ISOLITE LITHONIA HUBBELL DUAL-LITE	RL LQM EVE	MOUNT 8'-0" AFF. TO BOF. WIRE AHEAD OF LOCAL SWITCHING, CHEVRONS AS INDICATED ON PLANS. WIRE AHEAD OF LOCAL SWITCHING
EM	LED	Yes	No	EM LIGHTING UNIT WITH TWO ADJUSTABLE HEADS; UNIVERSAL MTG, 3.6V SEALED MAINTENANCE FREE NICAD BAT, UV STABLE WHITE THERMOPLASTIC HOUSING, SELF-DIAGNOSTICS AND DAMP LOCATION LISTED.	ISOLITE LITHONIA HUBBELL COMPASS	IMR-LED ELM2 LED HO CU2RC	MOUNT 8'-0" AFF. TO BOF. WIRE AHEAD OF LOCAL SWITCHING

LED EXTERIOR LUMINAIRE SCHEDULE							
TYPE	LAMPS	120V	208V	DESCRIPTION	MANUFACTURER	MODEL	COMMENTS
ZA	24W/LED 2300 LUMENS 5000°K, 80 CRI	Yes	No	FLAGPOLE LIGHT W/ ALUMINUM HOUSING; SUITABLE FOR 9" POLE DIAMETER; WHITE POWDERCOAT PAINTED FINISH; AND REMOTE 24VDC, CLASS II LED DRIVER BY INVENTRONICS OR A/E APPROVED EQUAL	POLELED	O2	
ZB	55.1W/LED 5400 LUMENS 4000°K, 70 CRI B1-U0-G1 MAX	Yes	No	16"x8"x8" SMALL CYLINDER SHAPED WALL MOUNTED LED FIXTURE W/ DIE-CAST AL HOUSING; TYPE III W/ BACKLIGHT CONTROL; BRONZE FINISH; AND 0-10V DIMMING DRIVER	COOPER McGRAW-EDISON LITHONIA HUBBELL COLUMBIA	ISC WSR TRP2	MOUNT 16'-0" AFF. TO BOF.
ZE	25.5W/LED 2600 LUMENS 4000°K, 70 CRI B1-U0-G1 MAX	Yes	No	16"x8"x8" SMALL CYLINDER SHAPED WALL MOUNTED LED FIXTURE W/ DIE-CAST AL HOUSING; TYPE IV W/ BACKLIGHT CONTROL; BRONZE FINISH; AND 0-10V DIMMING DRIVER	EATON McGRAW-EDISON LITHONIA HUBBELL COLUMBIA	ISC WSR TRP2	MOUNT 7'-8" AFF. TO BOF.
ZL1	96W/LED 11363 LUMENS 4000°K, 70CRI B2-U0-G2 MAX	No	Yes	ARCHITECTURAL LED AREA/SITE FIXTURE W/ HEAVY WALL DIE-CAST AL HOUSING; TYPE II W/ SPILL CONTROL (CUTOFF) OPTICS; SINGLE 6" ARM W/ MTG ACCESSORIES; WEATHER- RESISTANT GFCI RECPT WITHIN POLE'S HANDHOLE LOCATED 18" ABOVE BASE; 10KV SURGE MODULE; AND DRIVE CURRENT FACTORY SET TO 600mA MAX	EATON McGRAW-EDISON OR A/E APPROVED EQUAL	GLEON	20'HSTRAIGHT ROUND AL POLE, REFER TO SPEC SECTION 265613 FOR ADD'L INFORMATION, BLACK FINISH-POLE & FIXT
ZL2	96W/LED 11363 LUMENS 4000°K, 70CRI B2-U0-G2 MAX	No	Yes	SAME AS TYPE "XL1" EXCEPT W/ TYPE III W/ TWO (2) LUMINAIRE ON DUAL 6" ARMS, 180" APART	EATON McGRAW-EDISON OR A/E APPROVED EQUAL	GLEON	STRAIGHT ROUND AL POLE, REFER TO SPEC SECTION 265613 FOR ADD'L INFORMATION, BLACK FINISH-POLE & FIXT

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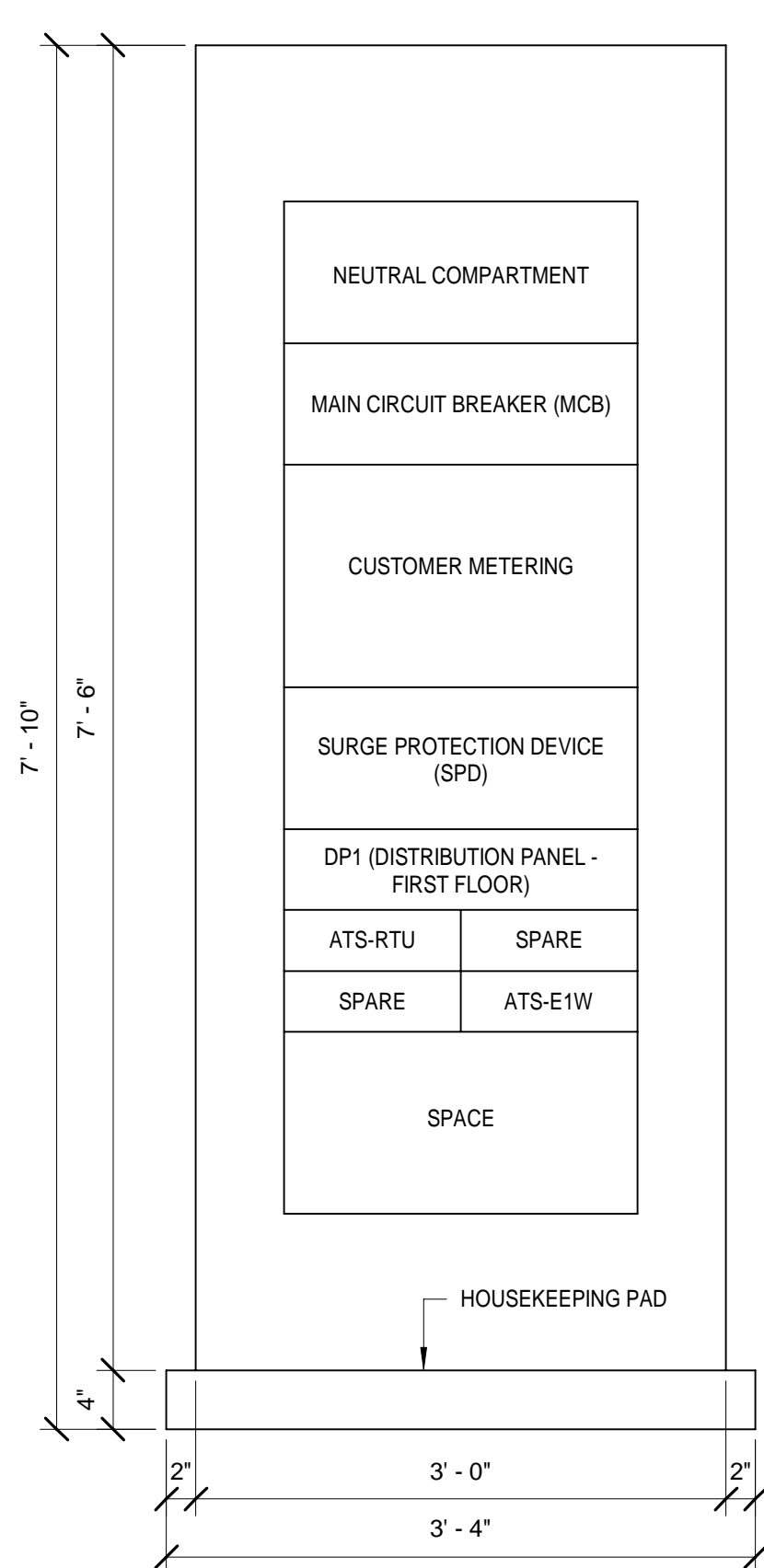
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LUMINAIRE
SCHEDULES

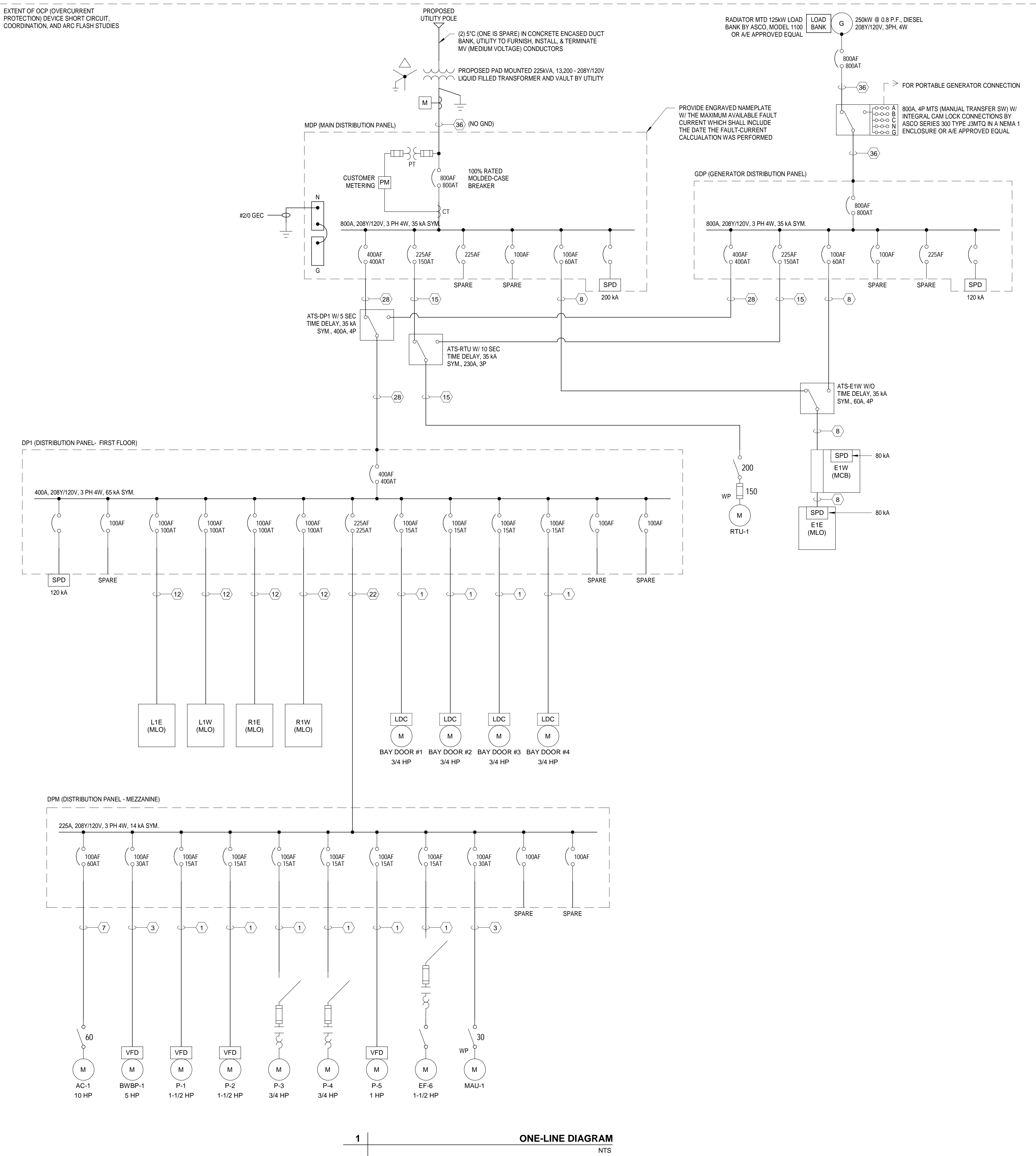
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ELECTRICAL FEEDER SCHEDULE						
Key Note #	Max Amps	# of Parallel Runs	# of Phase Conductors Per Conduit	Phase Conductor Size	Ground Size	Conduit Size, unless noted otherwise
1	20	1	3	12	12	3/4"
2	20	1	4	12	12	3/4"
3	30	1	3	10	10	3/4"
4	30	1	4	10	10	3/4"
5	40	1	3	8	10	3/4"
6	40	1	4	8	10	3/4"
7	50 or 60	1	3	6	10	3/4"
8	50 or 60	1	4	6	10	1"
9	70	1	3	4	8	1-1/4"
10	70	1	4	4	8	1-1/4"
11	100	1	3	2	8	1-1/4"
12	100	1	4	2	8	1-1/4"
13	125	1	3	1	6	1-1/2"
14	125	1	4	1	6	1-1/2"
15	150	1	3	1/0	6	1-1/2"
16	150	1	4	1/0	6	2"
17	175	1	3	2/0	6	2"
18	175	1	4	2/0	6	2"
19	200	1	3	3/0	6	2"
20	200	1	4	3/0	6	2"
21	225	1	3	4/0	4	2"
22	225	1	4	4/0	4	2-1/2"
23	250	1	3	250kcmil	4	2-1/2"
24	250	1	4	250kcmil	4	3"
25	300	1	3	350kcmil	4	3"
26	300	1	4	350kcmil	4	4"
27	400	1	3	500kcmil	3	4"
28	400	1	4	500kcmil	3	4"
29	500	2	3	250kcmil	2	2-1/2"
30	500	2	4	250kcmil	2	3"
31	600	2	3	350kcmil	1	3"
32	600	2	4	350kcmil	1	4"
33	700	2	3	500kcmil	1/0	4"
34	700	2	4	500kcmil	1/0	4"
35	800	3	3	300kcmil	1/0	3"
36	800	3	4	300kcmil	1/0	4"
37	1000	3	3	500kcmil	2/0	4"
38	1000	3	4	500kcmil	2/0	4"
39	1200	4	3	350kcmil	3/0	3"
40	1200	4	4	350kcmil	3/0	4"
41	1600	5	3	500kcmil	4/0	4"
42	1600	5	4	500kcmil	4/0	4"
43	2000	6	3	500kcmil	250kcmil	4"
44	2000	6	4	500kcmil	250kcmil	4"



2 MAIN DISTRIBUTION PANEL (MDP) ELEVATION
Scale: 1" = 1'-0"

EXTENT OF OCP (OVERCURRENT PROTECTION) DEVICE SHORT CIRCUIT, COORDINATION, AND ARC FLASH STUDIES



1 ONE-LINE DIAGRAM
NTS

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ONE-LINE DIAGRAM

TECHNOLOGY SYMBOLS LEGEND

	DATA OUTLET - WALL OR FLOOR	TWO CAT 6 CABLES
	DATA/PHONE OUTLET - WALL MOUNTED	TWO CAT 6 CABLES
	WIRELESS ACCESS POINT - CEILING MOUNTED	TWO CAT 6A CABLES WITH 20' EXTRA CABLE AT LOCATION
	PUBLIC ADDRESS SPEAKER - CEILING MOUNTED	18 AWG TWISTED, JACKETED PAIR
	PUBLIC ADDRESS HORN TYPE SPEAKER - WALL MOUNTED	18 AWG TWISTED, JACKETED PAIR
	INTERCOM STATION - SECURITY TYPE - WALL MOUNTED	CAT 6 CABLE
	SECURITY SYSTEM VIDEO DOME CAMERA - CEILING MOUNTED	CAT 6 CABLE
	SECURITY SYSTEM MULTI-HEAD DOME CAMERA - CEILING MOUNTED	CAT 6 CABLE
	SECURITY SYSTEM CARD ACCESS READER	CABLE BY SECURITY CONTRACTOR
	SECURITY SYSTEM CARD ACCESS READER WITH KEYPAD	CABLE BY SECURITY CONTRACTOR

1 | AECOM TECHNOLOGY/SECURITY PLAN SYMBOLS
Scale: 1/2" = 1'-0"

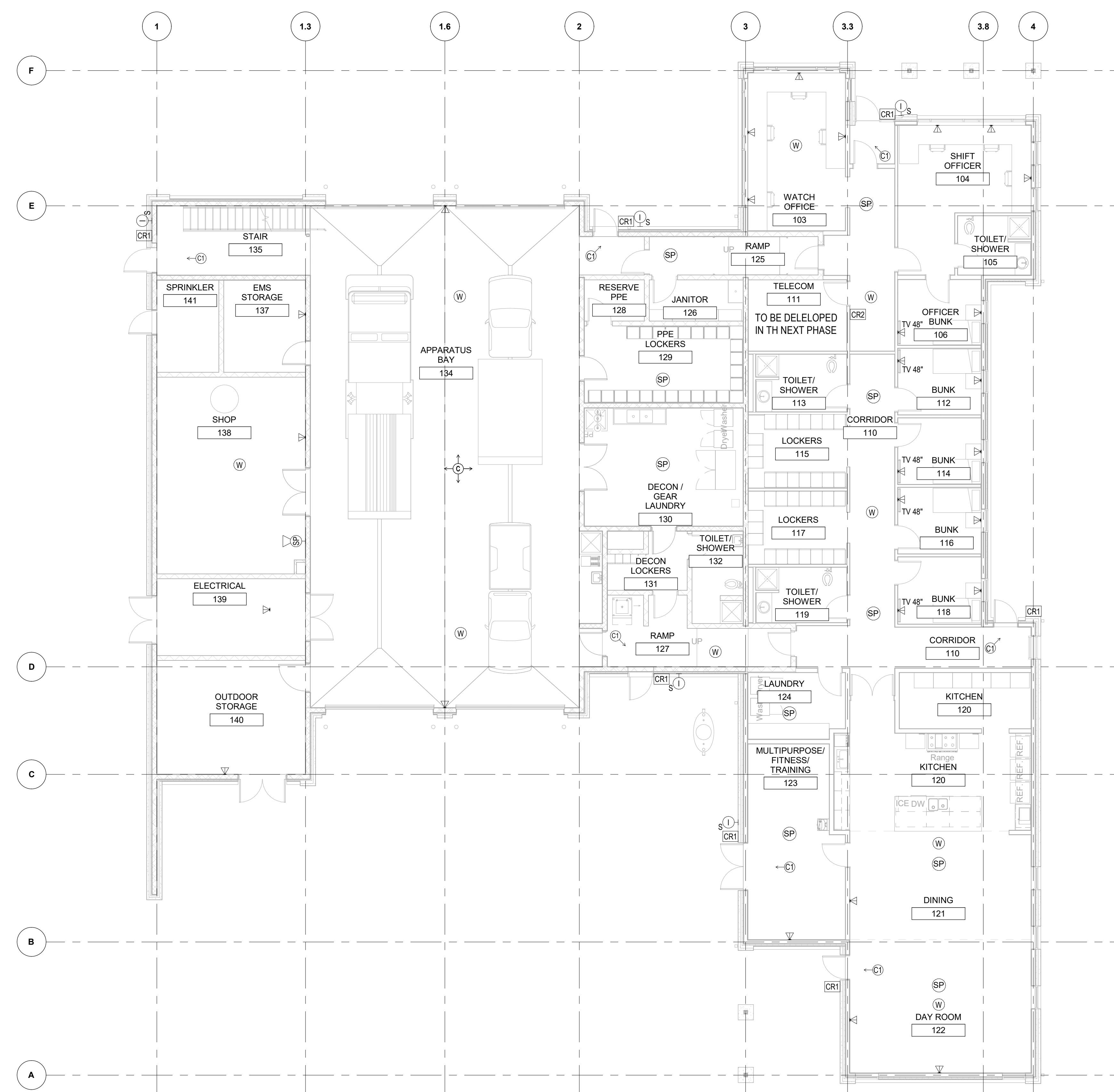
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TECHNOLOGY
SYMBOLS AND
ABBREVIATIONS

T0.01

PROJECT NO. 60593642



1 FIRST FLOOR TECHNOLOGY & SECURITY PLAN
Scale: 1/8" = 1'-0"

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**FIRST FLOOR
TECHNOLOGY &
SECURITY PLAN**

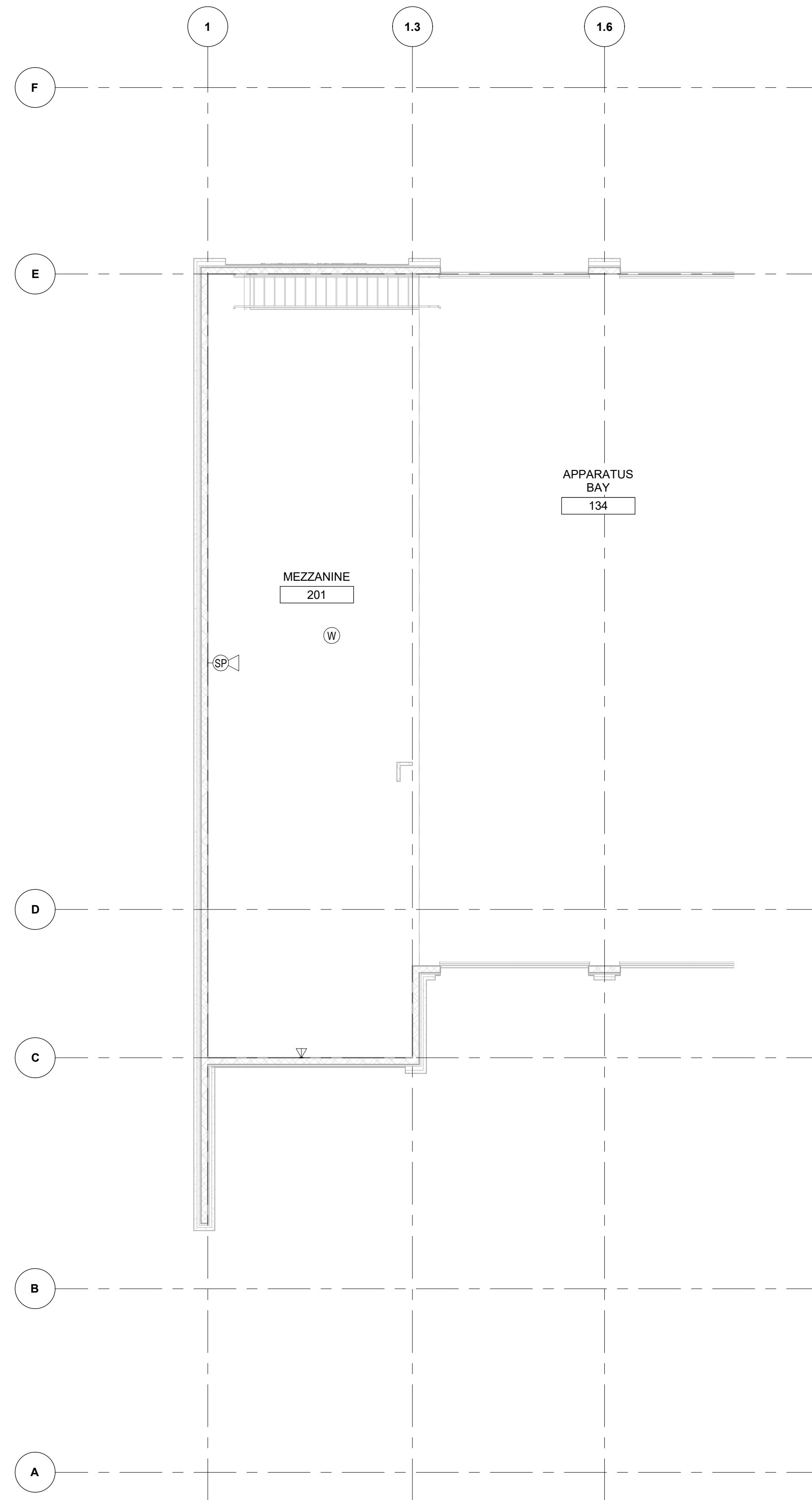
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**MEZZANINE
TECHNOLOGY &
SECURITY PLAN**

T1.02



1 | **MEZZANINE TECHNOLOGY & SECURITY PLAN**
Scale: 1/8" = 1'-0"

FIRE SUPPRESSION GENERAL NOTES

1. INSTALLATION OF AUTOMATIC WET PIPE SPRINKLER SYSTEM COMPLY WITH OHIO BUILDING CODE (2017), OHIO FIRE CODE (2017).
2. AREAS SHOWN TO BE PROTECTED BY THE AUTOMATIC SPRINKLER SYSTEMS SHALL BE FULLY SPRINKLED THROUGHOUT IN ACCORDANCE WITH NFPA 13, INCLUDING UNDER ALL OBSTRUCTIONS GREATER THAN 4 FEET WIDE INCLUDING, BUT NOT LIMITED TO, DUCTWORK, EQUIPMENT PLATFORMS, ABOVE ROLL-BACK DOORS, AND EXTERIOR OVERHANGS.
3. SPRINKLER SYSTEM DESIGN HAZARD CRITERIA INFORMATION IS SHOWN ON INDIVIDUAL DRAWINGS FOR EACH INDIVIDUAL AREA.
4. CONTRACTOR IS RESPONSIBLE FOR ALL PERMITS REQUIRED FOR THE WORK. CONTRACTOR SHALL SUBMIT DRAWINGS TO LOCAL FIRE AND BUILDING DEPARTMENT, THE ARCHITECT AND OWNER FOR REVIEW AND APPROVAL PRIOR TO INSTALLATION.
5. FIRE SUPPRESSION CONTRACTOR SHALL UTILIZE A FIRE WATER SUPPLY AS FOLLOWS:
 - A. 50 PSIG STATIC PRESSURE AND 20 PSIG AT 1380 GPM FLOWING IN THE UNDERGROUND MAIN LOCATED UNDER PROUTY ROAD. FIRE HYDRANT FLOW TEST WAS CONDUCTED ON JUNE 10, 2019 BY CONCORD FIRE DEPARTMENT.
 - B. AUTOMATIC SPRINKLER SYSTEMS SHALL BE HYDRAULICALLY CALCULATED WITH A MINIMUM SAFETY MARGIN OF 10 PERCENT.
 - C. FIRE SUPPRESSION CONTRACTOR SHALL PERFORM A NEW FIRE HYDRANT FLOW TEST TO VERIFY WATER SUPPLY.
6. NO SUPPRESSION SYSTEM MAIN DISTRIBUTION PIPING SHALL BE ROUTED THROUGH OR ABOVE ELECTRICAL ROOMS.
7. DO NOT INSTALL PIPING IN DEDICATED WORKING SPACE AS DEFINED BY NFPA 70 IN ELECTRICAL ROOMS. DO NOT INSTALL PIPING DIRECTLY OVER ELECTRICAL EQUIPMENT.
8. ALL SPRINKLER SYSTEM EQUIPMENT, INCLUDING BUT NOT LIMITED TO SPRINKLER PIPING, HEADS, NOZZLES, VALVES, FITTINGS, ESCUTCHEONS, HANGERS, AND ASSEMBLIES SHALL BE UL LISTED FOR THEIR INTENDED USE.
9. ALL SPRINKLERS AND HANGERS SHALL BE SPACED PER NFPA 13 AND COORDINATED WITH ALL OTHER ARCHITECTURAL, STRUCTURAL, ELECTRICAL, AND MECHANICAL EQUIPMENT. PROVIDE ADDITIONAL HANGERS AS REQUIRED.
10. MINIMUM PIPE SCHEDULE SHALL BE BLACK STEEL SCHEDULE 40 FOR PIPE 2 INCHES OR SMALLER AND SCHEDULE 10 FOR PIPE 2.5 INCHES OR LARGER FOR WET PIPE SPRINKLER SYSTEM.
11. DRAWINGS ARE SCHEMATIC IN NATURE AND ARE INTENDED TO SPECIFY BASIC DESIGN PARAMETERS. DRAWINGS SHOW APPROXIMATE PIPE SIZE. SPRINKLER CONTRACTOR IS RESPONSIBLE FOR HYDRAULICALLY CALCULATING THE SPRINKLER SYSTEM BASED ON THE AREA DENSITY METHOD PER NFPA 13. PIPE SHOWN ON DRAWING IS MINIMUM SIZE.
12. CONTRACTOR SHALL COORDINATE AND PROVIDE ALL SLEEVES REQUIRED FOR ALL AND SLAB PENETRATIONS. FIRESTOP PENETRATIONS THROUGH ALL FIRE RESISTANCE RATED ASSEMBLIES WITH APPROVED MATERIALS IN ACCORDANCE WITH ASTM E-184.
13. ALL PIPING SHALL BE HYDRAULICALLY TESTED IN ACCORDANCE WITH NFPA 13 AT NO LESS THAN 200 PSI OR 50 PSI IN EXCESS OF SYSTEM WORKING PRESSURE, WHICHEVER IS HIGHER, FOR 2 HOURS.
14. ALL VALVES SHALL BE SUPERVISED BY THE FIRE ALARM SYSTEM. COORDINATE WITH FIRE ALARM CONTRACTOR.
15. SPARE SPRINKLER CABINET WITH SPARE WRENCHES AND SPRINKLER HEADS SHALL BE PROVIDED IN ACCORDANCE WITH NFPA 13. LOCATE CABINET IN SPRINKLER ROOM 141 ADJACENT TO THE FIRE SPRINKLER RISER.
16. PENDENT SPRINKLER SHALL BE LOCATED IN THE CENTER OF THE CEILING TILE WHERE DROP CEILING IS INSTALLED.
17. UL LISTED HEAD GUARDS SHALL BE PROVIDED ON ALL EXPOSED SPRINKLERS INSTALLED THAT ARE SUBJECT TO MECHANICAL DAMAGE INCLUDING SPRINKLERS INSTALLED UNDER STAIR LANDINGS, FIRE POLE ENCLOSURES, AND INSIDE MECHANICAL, STORAGE, AND ELECTRICAL ROOMS.
18. CONTRACTOR SHALL PROVIDE INSPECTORS TEST CONNECTION LOCATED ON THE MOST REMOTE BRANCHLINE DRAINING TO THE EXTERIOR, WITH A RESTRICTED ORIFICE EQUAL TO A SINGLE SPRINKLER ORIFICE.
19. CONTRACTOR SHALL PROVIDE AUXILIARY DRAINS FOR TRAPPED WATER SECTIONS OF PIPING CONTAINING IN EXCESS OF 5 GALLONS.
20. SPRINKLER PIPING MAINS AND BRANCHLINES SHALL BE SEISMICALLY BRACED PER NFPA 13 AND ASCE/SEI7 FOR SEISMIC DESIGN CATEGORY C. CONTRACTOR SHALL PROVIDE SEISMIC SEPARATION ASSEMBLIES FOR ALL SPRINKLER PIPE CROSSING OVER BUILDING SEISMIC JOINTS.



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**GENERAL INFO -
FIRE
PROTECTION**

FP0.01

PROJECT NO. 00000000



1 | FIRST FLOOR - FIRE PROTECTION PLAN
FP1.01 | Scale: 1/8" = 1'-0"

FIRE SUPPRESSION DESIGN CRITERIA

1	LIGHT HAZARD: UNLESS OTHERWISE NOTED, INSTALL AUTOMATIC WET PIPE SPRINKLER SYSTEM HYDRAULICALLY DESIGNED IN ACCORDANCE WITH NFPA 13. PROVIDE A DENSITY OF 0.1 GPM/SQ FT OVER THE HYDRAULICALLY MOST DEMANDING 1950 SQ FT SPACED AT A MAXIMUM 225 SQ FT, WITH 100 GPM HOSE DEMAND.
2	ORDINARY HAZARD GROUP I: UNLESS OTHERWISE NOTED, INSTALL AUTOMATIC WET PIPE SPRINKLER SYSTEM HYDRAULICALLY DESIGNED IN ACCORDANCE WITH NFPA 13. PROVIDE A DENSITY OF 0.15 GPM/SQ FT OVER THE HYDRAULICALLY MOST DEMANDING 1950 SQ FT SPACED AT A MAXIMUM 130 SQ FT, WITH 250 GPM HOSE DEMAND.
3	ORDINARY HAZARD GROUP II: UNLESS OTHERWISE NOTED, INSTALL AUTOMATIC WET PIPE SPRINKLER SYSTEM HYDRAULICALLY DESIGNED IN ACCORDANCE WITH NFPA 13. PROVIDE A DENSITY OF 0.2 GPM/SQ FT OVER THE HYDRAULICALLY MOST DEMANDING 1950 SQ FT SPACED AT A MAXIMUM 130 SQ FT, WITH 250 GPM HOSE DEMAND.

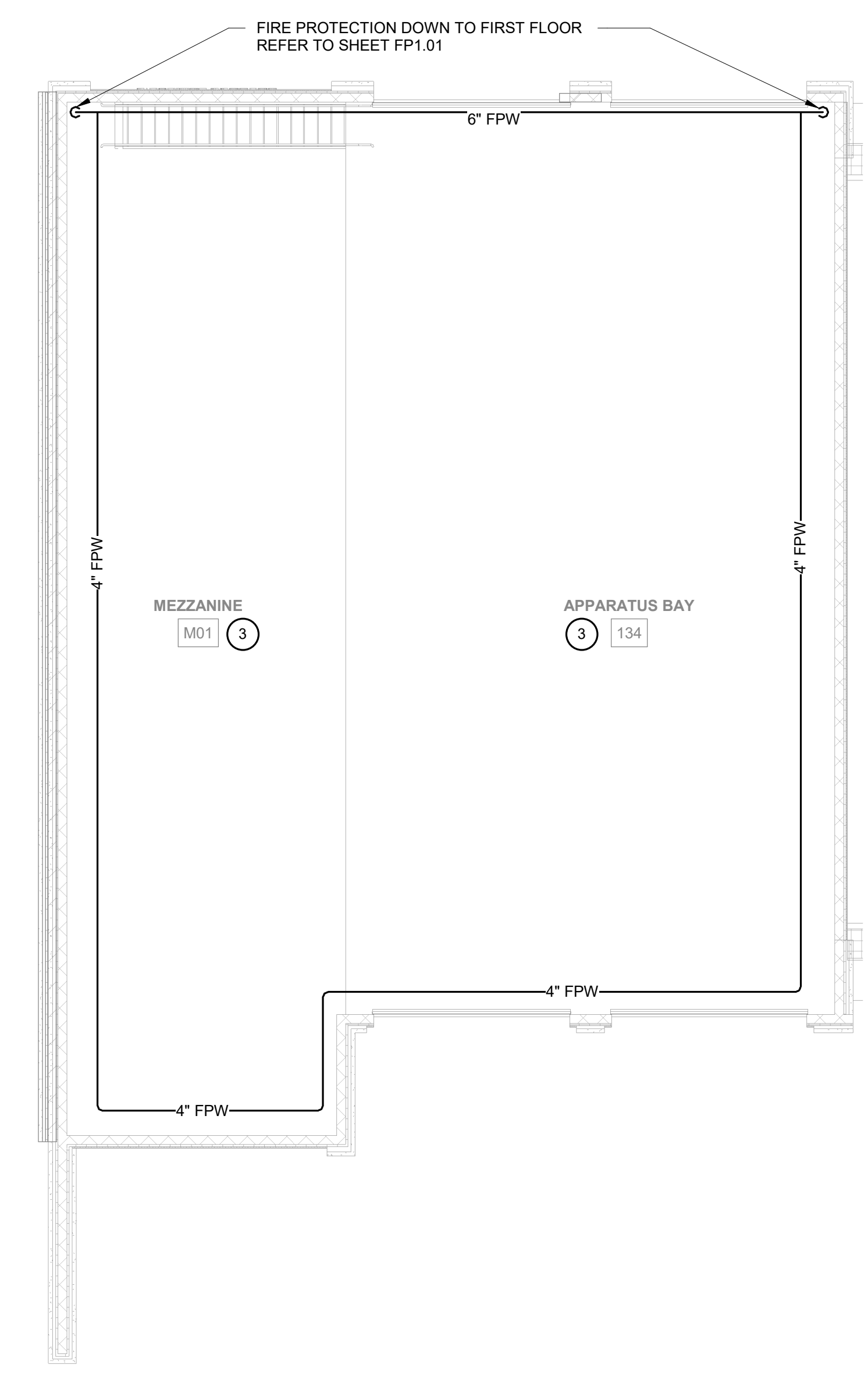
KEY NOTES

- 6-INCH COMBINED DOMESTIC/FIRE WATER SERVICE LINE.
- FIRE WATER BACKFLOW PREVENTER, STACK FIRE WATER AND DOMESTIC BACKFLOW PREVENTERS. COORDINATE WITH PLUMBING CONTRACTOR.
- FIRE DEPARTMENT CONNECTION.
- AUTOMATIC WET PIPE SPRINKLER SYSTEM RISER.

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CONCORD FIRE STATION 2
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1
FP1.02
MEZZANINE
Scale: 1/8" = 1'-0"

FIRE SUPPRESSION DESIGN CRITERIA	
①	LIGHT HAZARD: UNLESS OTHERWISE NOTED, INSTALL AUTOMATIC WET PIPE SPRINKLER SYSTEM HYDRAULICALLY DESIGNED IN ACCORDANCE WITH NFPA 13. PROVIDE A DENSITY OF 0.1 GPM/SQ FT OVER THE HYDRAULICALLY MOST DEMANDING 1600 SQ FT SPACED AT A MAXIMUM 225 SQ FT, WITH 100 GPM HOSE DEMAND.
②	ORDINARY HAZARD GROUP I: UNLESS OTHERWISE NOTED, INSTALL AUTOMATIC WET PIPE SPRINKLER SYSTEM HYDRAULICALLY DESIGNED IN ACCORDANCE WITH NFPA 13. PROVIDE A DENSITY OF 0.15 GPM/SQ FT OVER THE HYDRAULICALLY MOST DEMANDING 1500 SQ FT SPACED AT A MAXIMUM 130 SQ FT, WITH 250 GPM HOSE DEMAND.
③	ORDINARY HAZARD GROUP II: UNLESS OTHERWISE NOTED, INSTALL AUTOMATIC WET PIPE SPRINKLER SYSTEM HYDRAULICALLY DESIGNED IN ACCORDANCE WITH NFPA 13. PROVIDE A DENSITY OF 0.2 GPM/SQ FT OVER THE HYDRAULICALLY MOST DEMANDING 1950 SQ FT SPACED AT A MAXIMUM 130 SQ FT, WITH 250 GPM HOSE DEMAND.

FP ZONES
Scale: 12" = 1'-0"

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MEZZANINE FIRE PROTECTION PLAN

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