

MECHANICAL LEGEND

(NOT ALL SYMBOLS LISTED BELOW ARE BEING USED IN THIS SET OF MECHANICAL DRAWINGS)

GENERAL SYMBOLS/ ABBR.	
SYMBOL	DESCRIPTION
(M)	SECTION NO.
(F)	SECTION VIEW SHEET NO.
(E)	DETAIL DESIGNATION
(E1)	EQUIPMENT DESIGNATION
(S)	SHEET KEY NOTES
(P)	POINT OF CONN. (CONN. NEW TO EXISTING)
(POD)	POINT OF DISCONNECTION
(A)	ARROW INDICATES DIRECTION OF FLOW
(R)	AIR DEVICE CALL OUT, TYPE (X) DEVICES
(E)	EXISTING
DN	DOWN
AFB	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
TPT	TOP OF PIPE (AFP)
N/S	NOT TO SCALE
AMB	AMBIENT
BTUH	BRITISH THERMAL UNIT PER HOUR
CFH	CUBIC FEET PER HOUR
CV	CONSTANT VOLUME
dB	DECIBEL
DB	DRY-BULB
DDC	DIRECT DIGITAL CONTROL
DFL	DEFLECTION
DA	DIAMETER
DWG	DRAWING
EER	ENERGY EFFICIENT RATIO
ENT	ENTERING
F	FEET
F	FEET PER INCH
FFM	FEET PER MINUTE
FTWC	FEET WATER COLUMN
GA	GALLON
GPH	GALLONS PER HOUR
GPM	GALLONS PER MINUTE
NWC	INCH WATER COLUMN
LBS	POUNDS
LVG	LEAVING
MAX	MAXIMUM
MBH	THOUSAND BTUH
MIN	MINIMUM
NC	NOISE CRITERIA
OC	ON CENTER
P.D.	PRESSURE DROP/ DIFFERENTIAL
PS	PRESSURE
PSIG	POUNDS PER SQUARE INCH GAUGE
PWL	POUND POWER LEVEL
QTY	QUANTITY
RH	RELATIVE HUMIDITY
SPCS	SPECIFICATIONS
SQ FT	SQUARE FEET
SS	STAINLESS STEEL
TP	TYPICAL
UN	UNLESS OTHERWISE NOTED
VEL	VELOCITY
VTR	VENT THROUGH ROOF
WB	WET-BULB
W	WITH
W/O	WITHOUT

GENERAL ELECTRICAL ABBR.	
SYMBOL	DESCRIPTION
BHP	BRAKE HORSE POWER
FLA	FULL LOAD AMP
HP	HORSEPOWER
KV	KILOVOLTS
HZ	HERTZ
KW	KILOWATTS
MCA	MINIMUM CIRCUIT AMP
MCC	MOTOR CONTROL CENTER
MPS	MAXIMUM FUSE SIZE
MCP	MAX OVER CURRENT PROTECTION
RLA	RUNNING LOAD AMP
RPM	REVOLUTION PER MINUTE

HVAC DUCTWORK/DAMPERS	
SYMBOL	DESCRIPTION
(DOUBLE)	RETURN DUCT UP
(SINGLE)	SUPPLY DUCT UP
(DOUBLE)	EXHAUST DUCT UP
(SINGLE)	SUPPLY DUCT DOWN
(DOUBLE)	RETURN DUCT DOWN
(SINGLE)	EXHAUST DUCT DOWN
(DOUBLE)	ROUND DUCT DOWN
(SINGLE)	ROUND DUCT UP
(DOUBLE)	DUCT DROP
(SINGLE)	TRANSITION RECT. TO RECT. OR ROUND TO ROUND
(DOUBLE)	TRANSITION RECT. TO ROUND
(SINGLE)	VANED ELBOW
(DOUBLE)	CAPPED DUCTWORK
(SINGLE)	EXISTING DUCTWORK NO CHANGE (LIGHT SOLID LINE)
(DOUBLE)	EXISTING DUCTWORK TO BE REMOVED (DASHED LINE)
(SINGLE)	DUCT W/ INTERNAL LINING 1/4" THICK 2x2" THICK
(DOUBLE)	CONICAL TAP
(SINGLE)	CONICAL SPRIN IN FITTING W/ MANUAL VOLUME DAMPER

HVAC SYMBOLS/ ABBR.	
SYMBOL	DESCRIPTION
CD	SUPPLY DIFFUSER-4WAY THROW
CD	SUPPLY DIFFUSER-3WAY THROW
CD	SUPPLY DIFFUSER-2WAY THROW
CD	SUPPLY DIFFUSER-1WAY THROW
LD	SUPPLY SLOT DIFFUSER
CRGR	RETURN AIR GRILLE
LD	LOW PRESSURE FLEXIBLE DUCT
AP	CEILING ACCESS PANEL
H	HUMIDIFIER
(LENGTH) (X)	FLEXIBLE DUCT CONNECTION
(X)	AIR DEVICE CALL OUT, TYPE (X) DEVICES
WL	EXTERIOR WALL LOUVER (UNDER ARCH. SECTION)
UL	UNDERCUT DOOR (UNDER ARCH. SECTION)
DL	DOOR LOUVER (UNDER ARCH. SECTION)
LD	LOUVER DOOR FULL HEIGHT (UNDER ARCH. SECTION)
LD	RETURN EXHAUST AIR FLOW SYMBOL
UP	RISE IN DIRECTION OF AIRFLOW
DN	DROP IN DIRECTION OF AIRFLOW
BOO	BOTTOM OF DUCT (AFF)
TOO	TOP OF DUCT (AFF)
CFM	CUBIC FEET PER MINUTE
DP	DISCHARGE PLENUM
EA	EXHAUST AIR
ESP	EXTERNAL STATIC PRESSURE
FO	FLAT OVAL DUCT
MA	MAKE-UP AIR
OA	OUTSIDE AIR
RA	RETURN AIR
SA	SUPPLY AIR
SCFM	STANDARD AIR CUBIC FEET PER MINUTE
SP	STATIC PRESSURE
TP	TRANSFER GRILLE
TSP	TOTAL STATIC PRESSURE
WMS	WIRE MESH SCREEN

EQUIPMENT ABBREVIATIONS	
SYMBOL	DESCRIPTION
AF	AFTER FILTER
AH	AIR HANDLING UNIT
B	BOLTER
BB	BASEBOARD
CAV	CONSTANT AIR VOLUME
CC	COOLING COIL
CH	CHILLER
DOG	DIESEL OIL GAUGE
DOP	DIESEL OIL PUMP
FDP	EXHAUST FAN
FC	FAN COIL UNIT
FF	FINAL FILTER
FT	FLASH TANK
FS	FLOOR SINK
HU	HEATING COIL
HC	HUMIDIFIER SECTION
MJA	MAKE-UP AIR UNIT
PF	PRE-FILTER
P	PUMP
RF	RETURN FAN
SF	SUPPLY FAN
SW	SOUND TRAP
VF	VARIABLE AIR VOLUME
VFD	VARIABLE FREQUENCY DRIVE
WF	WATER FILTRATION

CONTROLS	
SYMBOL	DESCRIPTION
A	CONTROL AIR (PNEUMATIC)
FS	FLOW SWITCH
PS	PRESSURE SWITCH
(E)T	EXISTING THERMOSTAT
T	NEW THERMOSTAT
(S)	SPACE TEMPERATURE SENSOR
(S)	DUCT MOUNTED SMOKE DETECTOR
(S)	SPACE HUMIDISTAT
(S)	SPACE HUMIDITY SENSOR
(S)	SPACE PRESSURE SENSOR
(S)	SPACE DIOXIDE SENSOR
(S)	CARBON MONOXIDE SENSOR

PIPING	
SYMBOL	DESCRIPTION
(E)	EXISTING PIPING (LIGHT SOLID LINE)
(R)	EXISTING PIPING TO BE REMOVED (DASHED LINE)
HWS	HEATING WATER SUPPLY
HWR	HEATING WATER RETURN
BHF	BOOSTER HEATER SUPPLY
BHR	BOOSTER HEATER RETURN
CWS	CHILLED WATER SUPPLY
CWR	CHILLED WATER RETURN
CWS	CONDENSER WATER SUPPLY
CWR	CONDENSER WATER RETURN
RS	REFRIGERANT SUCTION
RL	REFRIGERANT LIQUID
RHG	REFRIGERANT HOT GAS
RD	EQUIPMENT DRAIN
DR	INDIRECT DRAIN
V	VENT PIPE SIZE/PIPE TYPE

MISC. PIPING	
SYMBOL	DESCRIPTION
BF	BOLTER BLOW DOWN
BF	BOLTER FLEED
BO	BOLTER OFF
CF	CHEMICAL FEEDER

STEAM	
SYMBOL	DESCRIPTION
LPS	LOW PRESSURE STEAM SUPPLY
MPS	MEDIUM PRESSURE STEAM SUPPLY
HPS	HIGH PRESSURE STEAM SUPPLY
LPR	LOW PRESSURE STEAM CONDENSATE RETURN
MPR	MEDIUM PRESSURE STEAM CONDENSATE RETURN
HPR	HIGH PRESSURE STEAM CONDENSATE RETURN
PR	PUMPED CONDENSATE RETURN
ST	STEAM TRAP
PRV	PRESSURE REDUCING VALVE
CRV	CONDENSATE RETURN VALVE
LBSHR	POUNDS PER HOUR

GENERATOR	
SYMBOL	DESCRIPTION
GEN EX	GENERATOR ENGINE EXHAUST
FOX	DIESEL OIL SUPPLY
DOR	DIESEL OIL RETURN
JWS	JACKET WATER SUPPLY
JWR	JACKET WATER RETURN
CAC C	CHARGED AIR COOLING COLD CIRCUIT
CAC H	CHARGED AIR COOLING HOT CIRCUIT
DR	EQUIPMENT DRAIN

FITTINGS	
SYMBOL	DESCRIPTION
P&T	PRESSURE/TEMPERATURE PORT TAPS
CR	CONCENTRIC REDUCER
EJ	ECCENTRIC REDUCER
ER	EXPANSION JOINT
U	UNION
AV	AIR VENT
FG	FLEXIBLE PIPE CONNECTOR
PG	PRESSURE GAUGE W/ GAUGE COCK
ELBOW UP	ELBOW UP
ELBOW DOWN	ELBOW DOWN
TTEE DOWN	TTEE DOWN
TEE DOWN	TEE DOWN
PIPE CAP OR PLUG	PIPE CAP OR PLUG
TRP	TEMPERATURE/PRESSURE RELIEF VALVE
STR	STRAINER W/ BLOW-OFF & CAPPED HOSE-END CONNECTION

VALVES	
SYMBOL	DESCRIPTION
DRV	DRAIN VALVE W/ HOSE END CONN.
CV	CHECK VALVE W/ INDICATION OF FLOW DIRECTION
PRV	PRESSURE REDUCING VALVE
SV	SOLENOID VALVE
FCV	AUTO FLOW CONTROL VALVE W/ TEST PORTS
CS:BV	CIRCUIT SETTER OR BALANCING VALVE
GLV	GLOBE VALVE (STRAIGHT PATTERN)
QLV	GLOBE VALVE (ANGLE PATTERN)
BFV	BUTTERFLY VALVE
BV	BALL VALVE
TCV	AUTOMATIC TEMP. CONTROL VALVE, 2WAY
TRV	AUTOMATIC TEMP. CONTROL VALVE, 3WAY
TRP	TEMPERATURE/PRESSURE RELIEF VALVE
RV	VALVE IN RISER
STR	STRAINER W/ BLOW-OFF & CAPPED HOSE-END CONNECTION
GV	GATE VALVE
OS&Y	OUTSIDE STEM AND YOKE
BV	BALL VALVE W/ HOSE CONNECTION
PV	PLUG VALVE

MECHANICAL/PLUMBING/SPRINKLER/ELECTRICAL COORDINATION REQUIREMENTS	
FOR MECHANICAL AND PLUMBING EQUIPMENT AS INDICATED ON THE DIVISION 21, 22, AND 23 DRAWINGS, THE DIVISION 21, 22 AND 23 CONTRACTORS SHALL COORDINATE WITH DIVISION 26 CONTRACTOR TO CONNECT ALL MECHANICAL AND PLUMBING EQUIPMENT INDICATED ON THE MECHANICAL AND PLUMBING DRAWINGS. COORDINATE FOR COMPLETE WIRING, STARTERS, AND DISCONNECTING MEANS FOR ALL MECHANICAL AND PLUMBING EQUIPMENT.	
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GENERAL MECHANICAL CONTRACT REQUIREMENTS:

- UNLESS OTHERWISE NOTED, THE WORK DESCRIBED ON THE PLANS AND SPECIFICATIONS SHALL INCLUDE FURNISHING AND INSTALLATION OF ALL LABORS MATERIALS NECESSARY FOR COMPLETE AND OPERATIONAL HVAC, FIRE PROTECTION AND PLUMBING SYSTEMS. CONTRACTOR SHALL FURNISH THE FOLLOWING ITEMS REQUIRED TO ACHIEVE THIS (I.E. OFFSETS, ISOLATION AND BALANCING DEVICES, MAINTENANCE CLEARANCES, ETC.) ARE NOT SPECIFICALLY SHOWN.
 - DATA GIVEN ON THE DRAWINGS IS AS EXACT AS COULD BE SECURED. ABSOLUTE ACCURACY IS NOT GUARANTEED AND THE CONTRACTOR SHALL OBTAIN AND VERIFY EXACT MEASUREMENTS, LEVELS, SPACE REQUIREMENTS, POTENTIAL CONFLICTS WITH OTHER TRADES, ETC. AT THE SITE AND SHALL SATISFACTORILY ADAPT HIS WORK TO THE ACTUAL CONDITIONS OF THE JOB.
 - THE DRAWINGS ARE DIAGRAMMATIC IN NATURE AND SHALL NOT BE SCALED. THEY SHOW CERTAIN PHYSICAL RELATIONSHIPS WHICH MUST BE ESTABLISHED WITHIN THE DIVISION 23 WORK AND ITS INTERFACE WITH OTHER WORK. ESTABLISHING THIS RELATIONSHIP IN THE FIELD IS THE EXCLUSIVE RESPONSIBILITY OF THE CONTRACTOR. THIS DIVISION SHALL COORDINATE ITS WORK WITH ALL DIVISIONS OF THE WORK AND ADJUST ITS WORK AS REQUIRED BY THE ACTUAL CONDITIONS OF THE PROJECT.
 - THE CONTRACTOR SHALL VISIT THE SITE BEFORE SUBMITTING A BID TO BECOME THOROUGHLY FAMILIAR WITH THE ACTUAL CONDITIONS OF THE PROJECT. NO EXTRAS WILL BE ALLOWED DUE TO LACK OF KNOWLEDGE OF EXISTING CONDITIONS.
 - CERTAIN SYSTEMS REQUIRE ENGINEERING OF INSTALLATION DETAILS BY CONTRACTOR, UNLESS FULLY DETAILED IN THE CONTRACT DOCUMENTS. SUCH ENGINEERING IS THE EXCLUSIVE RESPONSIBILITY OF THE CONTRACTOR.
 - IT IS THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE WHERE CLEARANCES ARE LIMITED, AND WHERE INSTALLATION DRAWINGS OR SCHEMATICS, "CONSTRUCTION DRAWINGS" OR COORDINATION DRAWINGS MAY BE REQUIRED IN ACCORDANCE WITH OR IN EXCESS OF, THOSE REQUIRED BY THE SPECIFICATIONS. THE CONTRACTOR SHALL PREPARE ALL SUCH COORDINATION DRAWINGS AS PART OF THE BASE CONTRACT.
 - THESE NOTES ONLY SUPPLEMENT, AND DO NOT REPLACE, THE SPECIFICATIONS.
 - DEFINITIONS AND TERMINOLOGY
 - THE DEFINITIONS OF DIVISION 1 AND THE GENERAL CONDITIONS OF THIS SPECIFICATION ALSO APPLY TO THE DIVISION 23 CONTRACT DOCUMENTS.
 - "CONTRACT DOCUMENTS" CONSTITUTE THE DRAWINGS, SPECIFICATIONS, GENERAL CONDITIONS, PROJECT MANUALS, ETC., PREPARED BY ENGINEER (OR OTHER DESIGN PROFESSIONAL IN ASSOCIATION WITH ENGINEER) FOR CONTRACTORS BID OR CONTRACTORS NEGOTIATIONS WITH THE OWNER. THE DIVISION 23 DRAWINGS AND SPECIFICATIONS PREPARED BY THE ENGINEER ARE NOT CONSTRUCTION DOCUMENTS.
 - "CONSTRUCTION DOCUMENTS," "CONSTRUCTION DRAWINGS," AND SIMILAR TERMS REFER TO THE INFORMATION SHOWN ON THE DRAWINGS, SHOP DRAWINGS AND COORDINATION DRAWINGS PREPARED BY THE CONTRACTOR UNDER THE SUPERVISION INDICATED ON THE ENGINEER'S CONTRACT DOCUMENTS. THESE SPECIFICATIONS DETAIL THE CONTRACTOR'S RESPONSIBILITY FOR ENGINEERING BY CONTRACTOR AND FOR PREPARATION OF CONSTRUCTION DOCUMENTS.
 - "FURNISH" MEANS TO "SUPPLY" AND USUALLY REFERS TO AN ITEM OF EQUIPMENT.
 - "INSTALL" MEANS TO "SET IN PLACE, CONNECT AND PLACE IN FULL OPERATIONAL ORDER".
 - "FURNISH" MEANS TO "FURNISH AND INSTALL".
 - "EQUIVALENT" MEANS "MEETS THE SPECIFICATIONS OF THE REFERENCE PRODUCT OR TEST ALL SIGNIFICANT ASPECTS. SIGNIFICANT ASPECTS SHALL BE AS DETERMINED BY THE ARCHITECT/ENGINEER."
 - "WORK BY OTHERS" DIVISIONS; "THE 'X' DIVISION", AND SIMILAR EXPRESSIONS MEANS WORK TO BE PERFORMED UNDER THE CONTRACT DOCUMENTS, BUT NOT NECESSARILY UNDER THE DIVISION OR SECTION NUMBER WHICH THE WORK IS NOTED TO APPEAR. IT IS THE CONTRACTOR'S SOLE RESPONSIBILITY TO COORDINATE THE WORK OF THE CONTRACT BETWEEN HISHER SUPPLIERS, SUBCONTRACTORS AND EMPLOYEES. IF CLARIFICATION IS REQUIRED, CONSULT ARCHITECT/ENGINEER BEFORE SUBMITTING HIS BID.
 - BY REFERENCE, ANY REFERENCE TO A "CONTRACTOR" OR "SUB-CONTRACTOR" MEANS THE ENTITY WHICH HAS CONTRACTED WITH THE OWNER FOR THE WORK OF THE CONTRACT DOCUMENTS.
 - "ENGINEER" MEANS THE DESIGN PROFESSIONAL FIRM WHICH HAS CONTRACTED WITH THE ENGINEER (THROUGH PROPER CONTRACTUAL CHANNELS).

- EXISTING BUILDING:**
- THE CONTRACTOR'S ATTENTION IS CALLED TO THE FACT THAT THE EXISTING BUILDING WILL BE OCCUPIED BY THE OWNER DURING CONSTRUCTION. CONTRACTOR SHALL BE RESPONSIBLE FOR NOT BEING HINDERED BY THIS WORK. THE CONTRACTOR SHALL ACCOUNT FOR ALL ADDITIONAL COSTS WHICH MAY BE INCURRED BY HIM DUE TO THE DIFFICULTY OF WORKING OVER AND AROUND EMPLOYEES, DESKS, EQUIPMENT, ETC., AND DUE TO THE HOURS OF THE DAY IN WHICH AN AREA MAY BE AVAILABLE FOR SUBMITTING HIS BID.
 - MAINTAIN A MARK-UP SET OF DRAWINGS WHICH INDICATE VARIATIONS IN THE ACTUAL INSTALLATION FROM THE ORIGINAL DESIGN. SUBMIT DRAWINGS TO OWNER UPON COMPLETION. INCORPORATE THESE NOTES INTO THE AS-BUILT DRAWINGS.
 - COORDINATE ALL PENETRATIONS OF THE FLOOR SLAB PRIOR TO COMMENCING WORK. UTILIZE X-RAY AND VISUAL INVESTIGATION OF EXISTING CONDITIONS AS REQUIRED PRIOR TO DRILLING OR CUTTING. COORDINATE ALL NEW PENETRATIONS WITH OTHER DIVISIONS OF THE WORK. ALL CONTRACTORS ARE INDIVIDUALLY RESPONSIBLE FOR ALL PENETRATIONS REQUIRED BY THEIR DIVISIONS.

- ELECTRICAL COORDINATION:**
- VERIFY THE ELECTRICAL SERVICE PROVIDED BY THE ELECTRICAL CONTRACTOR BEFORE ORDERING ANY MECHANICAL EQUIPMENT REQUIRING ELECTRICAL CONNECTIONS.
 - PROVIDE PREMIUM EFFICIENCY MOTORS (NEMA STANDARD MG1-2003, TABLES 12-12 AND 12-13) WITH 1-15 SERVICE FACTOR ON ALL EQUIPMENT. MOTORS SHALL BE CAPABLE OF OPERATING CONTINUOUSLY AT 105% UNDER JOBSITE CONDITIONS AND ALTITUDE.
 - UNLESS NOTED OTHERWISE, ALL MECHANICAL EQUIPMENT SHALL BE PROVIDED WITH HSA SWITCH AND STARTER COMPATIBLE WITH EQUIPMENT AND BMS SYSTEM. STARTERS SHALL BE PROVIDED BY DIVISION 23 UNLESS IN A MOTOR CONTROL CENTER. ALL DISCONNECTS SHALL BE FURNISHED BY DIVISION 26.
 - THE ELECTRICAL POWER FOR CERTAIN EQUIPMENT PROVIDED UNDER DIVISION 23 HAS NOT BEEN SPECIFICALLY INDICATED ON THE ELECTRICAL DRAWINGS AND MUST BE PROVIDED BY FIELD ESTABLISHED BY THE DIVISION 23 TRADE REQUIRING SUCH POWER.
 - SUFFICIENT POWER FOR THIS PURPOSE SHALL BE FURNISHED AS "SPARE", DEDICATED CIRCUIT CAPACITY IN DIVISION 26'S PANELBOARDS. ALL WIRING, CONDUIT AND ELECTRICAL DEVICES DOWNSTREAM OF THE PANELBOARDS IS THE RESPONSIBILITY OF THE DIVISION 23 TRADE REQUIRING THE POWER UNLESS OTHERWISE SHOWN ON THE ELECTRICAL DRAWINGS.

- SUCH EQUIPMENT IS HEREBY DEFINED AS:**
- ELECTRICAL HEAT TRACE. REQUIRED HEAT TRACE LOCATIONS, CAPACITIES AND SPECIFICATIONS ARE SHOWN OR INDICATED ON THE DRAWINGS. PROVIDE ELECTRICAL HEAT TRACING ON ALL PIPES THAT ARE SUBJECT TO FREEZING. THIS INCLUDES AREAS LIKE LOADING DOCK, INTAKE/RELIEF/EXHAUST SHAFTS, ETC. REFER TO SPECIFICATIONS FOR ADDITIONAL INFORMATION.
 - TEMPERATURE CONTROL PANELS, CONTROL AIR COMPRESSORS AND LINE VOLTAGE POWER (FOR 24V CONTROL TRANSFORMERS) REQUIRED CONNECTION ARE INCLUDED IN DIVISION 23 09 00 AND WILL BE SHOWN BY THAT CONTRACTOR'S CONTROL SUBMITTAL DRAWINGS.
 - IT IS NOT PERMISSIBLE TO UTILIZE "SPARE" POWER FROM ADJACENT POWER CIRCUITS TO SERVE ANY OF THE ABOVE LOADS. ALL POWER MUST COME FROM DEDICATED CIRCUITS.

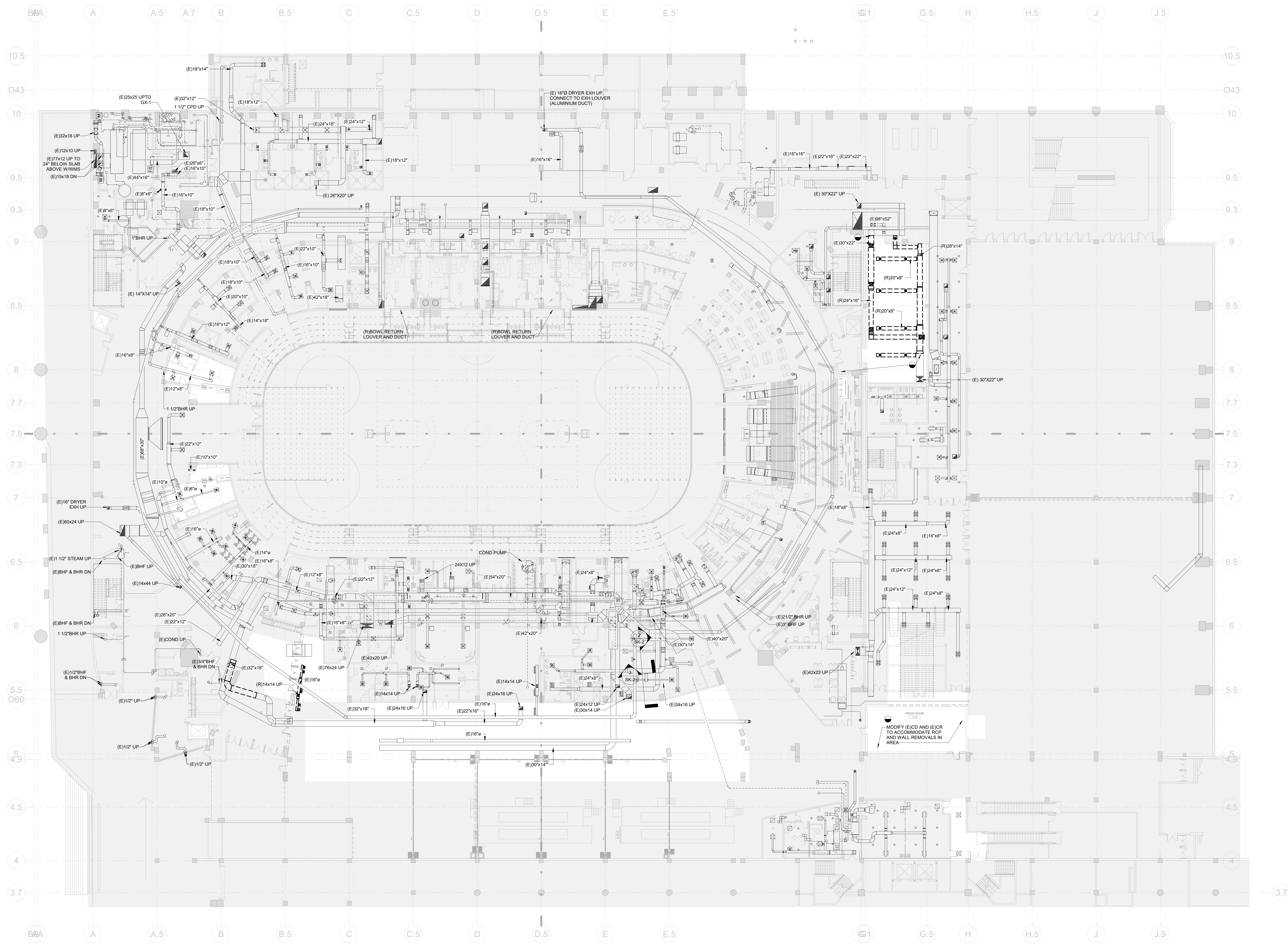
- SMOKE DETECTORS:**
- PROVIDE A SMOKE DETECTOR IN THE SUPPLY AND RETURN FOR ALL AIR HANDLERS 2,000 CFM OR GREATER. PROVIDE LISTED SMOKE DETECTORS IN RETURN AIR SYSTEMS IN ACCORDANCE WITH THE INTERNATIONAL MECHANICAL CODE AND ELSEWHERE AS SHOWN ON THE DRAWINGS.
 - SMOKE DETECTORS WILL BE FURNISHED AND SET IN PLACE UNDER THIS DIVISION. DETECTORS WILL BE WIRED UNDER DIVISION 18. SMOKE DETECTORS MUST BE OF THE SAME MANUFACTURER, AND COMPATIBLE WITH THE FIRE ALARM SYSTEM PROVIDED UNDER DIVISION 26 (IF APPLICABLE).
 - CONNECT RELAYS TO FAN CONTROL CIRCUIT TO STOP FAN WHEN SMOKE IS DETECTED.

- INSTALLATION:**
- SUSPEND EACH TRADE'S WORK SEPARATELY FROM THE STRUCTURE. DUCTWORK SHALL BE HELD TIGHT TO STRUCTURE EXCEPT WHERE OTHERWISE SHOWN.

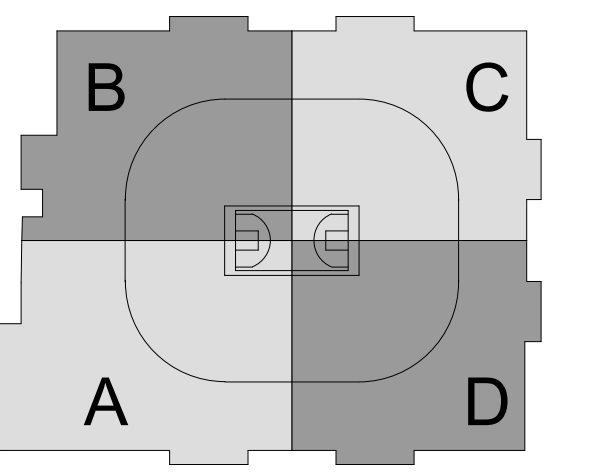
OTHERWISE SHOWN:

- INSTALL ALL EQUIPMENT AND MATERIALS IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATION UNLESS SPECIFICALLY INDICATED OTHERWISE OR WHERE LOCAL CODES OR REGULATIONS TAKE PRECEDENCE.
- PROVIDE MANUFACTURER'S RECOMMENDED SERVICE CLEARANCE AROUND ALL EQUIPMENT REQUIRING SAME.
- PROVIDE ACCESS DOORS FOR ALL EQUIPMENT, VALVES, CLEANOUTS, ETC. LOCATIONS FOR EQUIPMENT TO PROVIDE ADEQUATE SERVICE CLEARANCE FOR NORMAL MAINTENANCE WITHOUT REMOVING ARCHITECTURAL OR STRUCTURAL ELEMENTS SUCH AS THE CEILING SUPPORT SYSTEM, ELECTRICAL FIXTURES, ETC. "NORMAL MAINTENANCE" INCLUDES, BUT IS NOT LIMITED TO: FILTER CHANGING, GREASING OF BEARINGS, USING PT TIPS FOR PRESSURE OR TEMPERATURE MEASUREMENTS, SERVICING CONTROL VALVES AND SERVICING CONTROL PANELS.
- ISOLATE ALL PRESSURIZED PIPE (CHILLED WATER, STEAM, HOT WATER, ETC.) EACH RISER, BRANCH, PIPES OF EQUIPMENT, AND AREA SERVED.
- NO CHILLED WATER OR HEATING WATER LINES SHALL BE LOCATED EXPOSED IN FINISHED SPACES OR BELOW THE BUILDING SLAB UNLESS SHOWN OTHERWISE ON THE DRAWINGS.
- ALL CURBS, ROOF JACKS, ROOF THIMBLES, SANITARY VENTS, ROOF DRAINS, ETC. SHALL BE COMPATIBLE WITH ROOFING SYSTEM TO BE PROVIDED. REFERENCE ARCHITECTURAL DIVISION FOR REQUIRED FLASHING DETAILS.
- MECHANICAL CONTRACTOR IS RESPONSIBLE FOR PROVIDING ALL CONCRETE EQUIPMENT FOUNDATIONS BASED ON THE FINAL EQUIPMENT SELECTION, TO THE STRUCTURAL AND GENERAL CONTRACTOR FOR INCLUSION IN HIS CONTRACTOR'S WORK AS DESCRIBED BY THE GENERAL CONTRACTOR.
- UNDER THE BASE CONTRACT, THE CONTRACTOR SHALL PROVIDE ALL LABOR AND MATERIALS NECESSARY TO SPLIT EQUIPMENT INTO TWO (2) PIECES TO FACILITATE INSTALLATION. CONTRACTOR SHALL REASSEMBLE THE EQUIPMENT AND TEST TO CONFIRM PROPER OPERATION AND MAINTAIN ALL THE MANUFACTURER'S WARRANTIES.
- WARRANTY: AT A MINIMUM, THE ENTIRE MECHANICAL SYSTEM SHALL BE WARRANTED AGAINST DEFECTS IN MATERIALS AND WORKMANSHIP FOR A PERIOD OF ONE (1) YEAR AFTER ACCEPTANCE OF THE SYSTEM BY THE OWNER. REFER TO INDIVIDUAL SPECIFICATION SECTIONS FOR SPECIFIC WARRANTY REQUIREMENTS.

- DUCTWORK INSTALLATION:**
- SEAL ALL SEAMS (LONGITUDINAL AND TRANSVERSE) AIR TIGHT WITH SEALANT PER SPECIFICATIONS.
 - DUCT DIMENSIONS ARE INSIDE CLEAR.
 - DIFFUSER NECK SIZE IS SAME AS FLEXIBLE DUCT SIZE.
 - UNLESS OTHERWISE NOTED, ALL CHANGES IN DIRECTION SHALL BE MADE WITH RADIUS ELBOWS WITH RADIUS TO CENTERLINE EQUAL TO 1.5 DUCT WIDTH.
 - WHERE REQUIRED FOR SPACE CONSTRAINTS, PROVIDE MITERED ELBOWS WITH TURNING VANES AS FOLLOWS:
 - FOR DUCT WIDTHS OF 36" OR LESS, PROVIDE MANUFACTURED SINGLE WELD TURNING VANES, WITH NO TRAILING EDGES AND SPACING IN ACCORDANCE WITH SMACNA DUCT CONSTRUCTION STANDARDS FOR "STANDARD SPACING".
 - USE DOUBLE THICKNESS (AIRFOIL) BLADES WITHOUT TRAILING EDGES FOR DUCT WIDTHS GREATER THAN 36".
 - ALL FLEXIBLE DUCTS SHALL NOT BE LESS THAN 2" OR MORE THAN 2' IN LENGTH. INSTALL FLEXIBLE DUCTWORK SUCH THAT:
 - MINIMUM OVERALL LENGTH OF 30', STRAIGHT INTO NECK OF DIFFUSER.
 - MAXIMUM OF 135° OF TOTAL TURNING IN ENTIRE LENGTH OF FLEXIBLE DUCT.
 - MINIMUM TURNING RADIUS OF R = 1.5D.
 - WHERE:
 - "D"



- GENERAL NOTES:**
- EXISTING SYSTEMS INFORMATION IS SHOWN FOR REFERENCE ONLY TO CLARIFY SCOPE. CONTRACTOR SHALL FIELD VERIFY THESE EXISTING CONDITIONS TO CONFIRM THE PRECISE TIE-IN LOCATION FOR NEW WORK.
 - INTERM RELOCATIONS OF EXISTING SYSTEMS MAY BE REQUIRED TO ACCOMMODATE THE FINAL INDICATED SCOPE IN A STAGED MANNER. CONTRACTOR'S SCOPE SHALL INCLUDE A PHASED APPROACH AND ALL COSTS ASSOCIATED WITH THIS MAKE-READY WORK. REFER TO ARCHITECTURAL PHASING PLANS.
 - DEMOLITION TO OCCUR ONLY WHEN SPACES ARE NOT OCCUPIED.
 - THE CONTRACTOR SHALL FREEZE ANY AND ALL PIPING THAT DOES NOT HAVE A POSITIVE SHUT DOWN OR OPERATING EXISTING VALVE.
 - CUT ALL SUPPLY, RETURN, AND EXHAUST DUCTWORK AND ASSOCIATED DIFFUSERS, GRILES AND REGISTERS AT EACH POINT OF DISCONNECTION INDICATED ON DEMOLITION PLANS.
 - WHERE DISCONNECTING DUCTWORK, CONTRACTOR SHALL PROVIDE AN AIRTIGHT CAP AND SEAL EXISTING TO REMAIN DUCTWORK AIRTIGHT.
 - COORDINATION DRAWINGS SHALL BE PREPARED TO ENSURE ROUTING AVOIDS CONFLICTS WITH NEW AND EXISTING WORK. CONTRACTOR SHALL COORDINATE WITH ALL OTHER TRADES.
 - ALL WORK AFFECTING BUILDING SYSTEM OPERATION SHALL BE COORDINATED WITH BUILDING ENGINEERING.



SC I ARCHITECTS

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(212) 447-6770

NOT FOR CONSTRUCTION

KEYNOTES

NO.	DESCRIPTION	DATE
1	ISSUED FOR T&E	12/1/20
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REVISIONS/ ISSUES

CONTRACTOR SHALL CHECK AND VERIFY ALL DIMENSIONS AND REPORT ANY OMISSIONS OR DISCREPANCIES TO THE ARCHITECT BEFORE PROCEEDING WITH THE WORK. DO NOT SCALE THE DRAWINGS.

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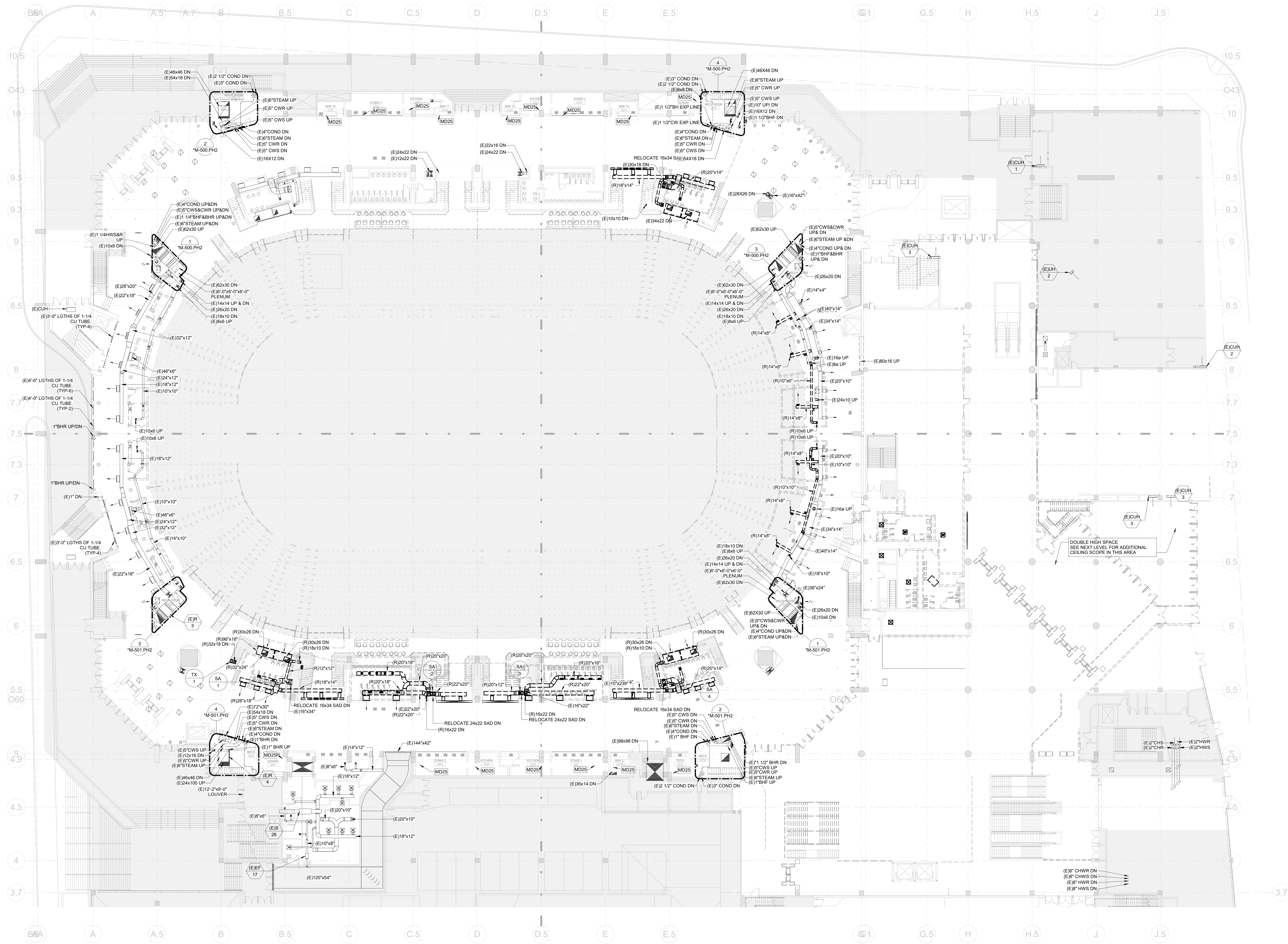
1 CIVIC CENTER PLAZA
HARTFORD, CT

DWG. TITLE
LEVEL 31 - MECHANICAL DEMOLITION PHASE 2

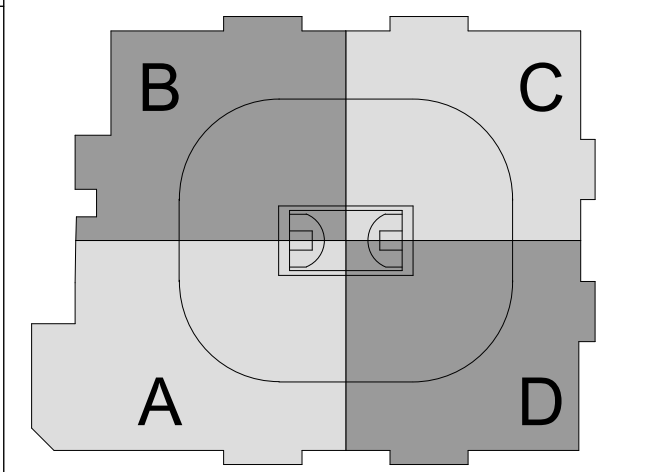
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DWG. NO.
M-101.PH2

PROJ. NO.
1605



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KEYNOTES

MD2 REPLACE THE DUCTWORK/DIFFUSERS IN AREA.

NO.	DESCRIPTION	DATE
1	PH2 - ISSUED FOR TPA 90	12/1/20
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REVISIONS/ ISSUES

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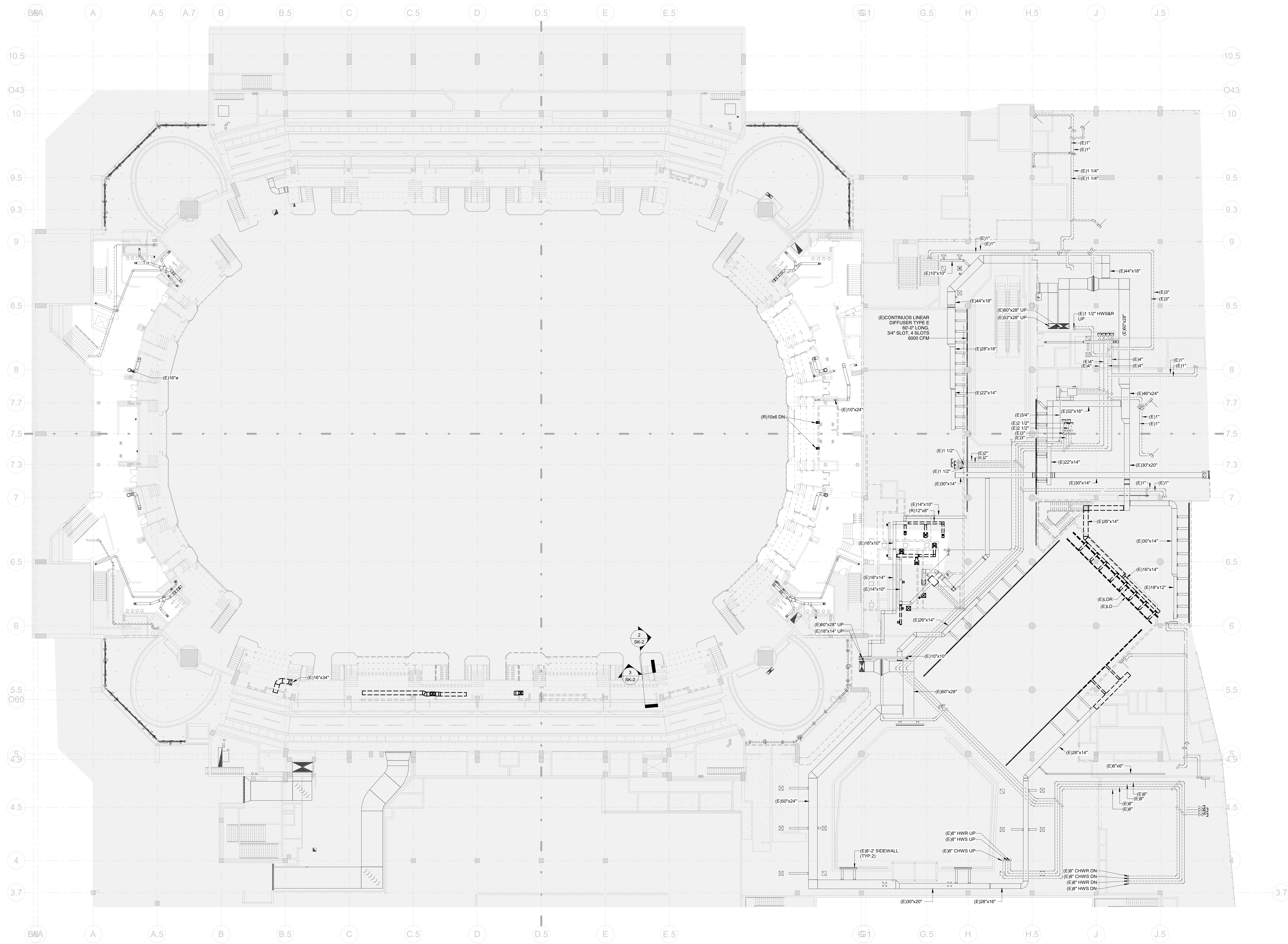
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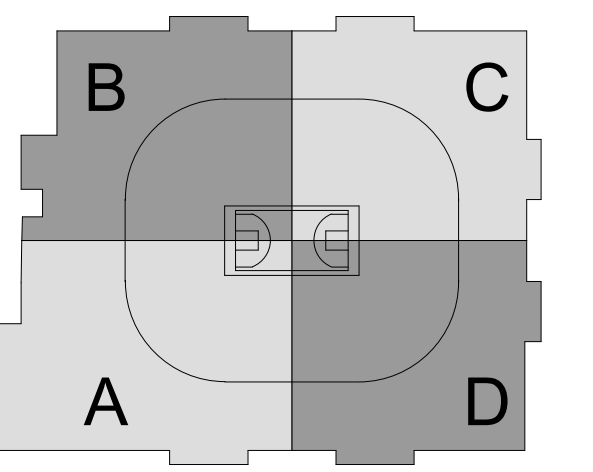
1 CIVIC CENTER PLAZA
HARTFORD, CT

DWG. TITLE: LEVEL 61 - MECHANICAL DEMOLITION PHASE 2

SCALE: 1/16" = 1'-0"
PROJ. NO: 1605
DWG. NO: M-103.PH2



- GENERAL NOTES:**
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KEYNOTES

NO.	DESCRIPTION	DATE
1	ISSUED FOR T&E	12/1/20

REVISIONS/ ISSUES

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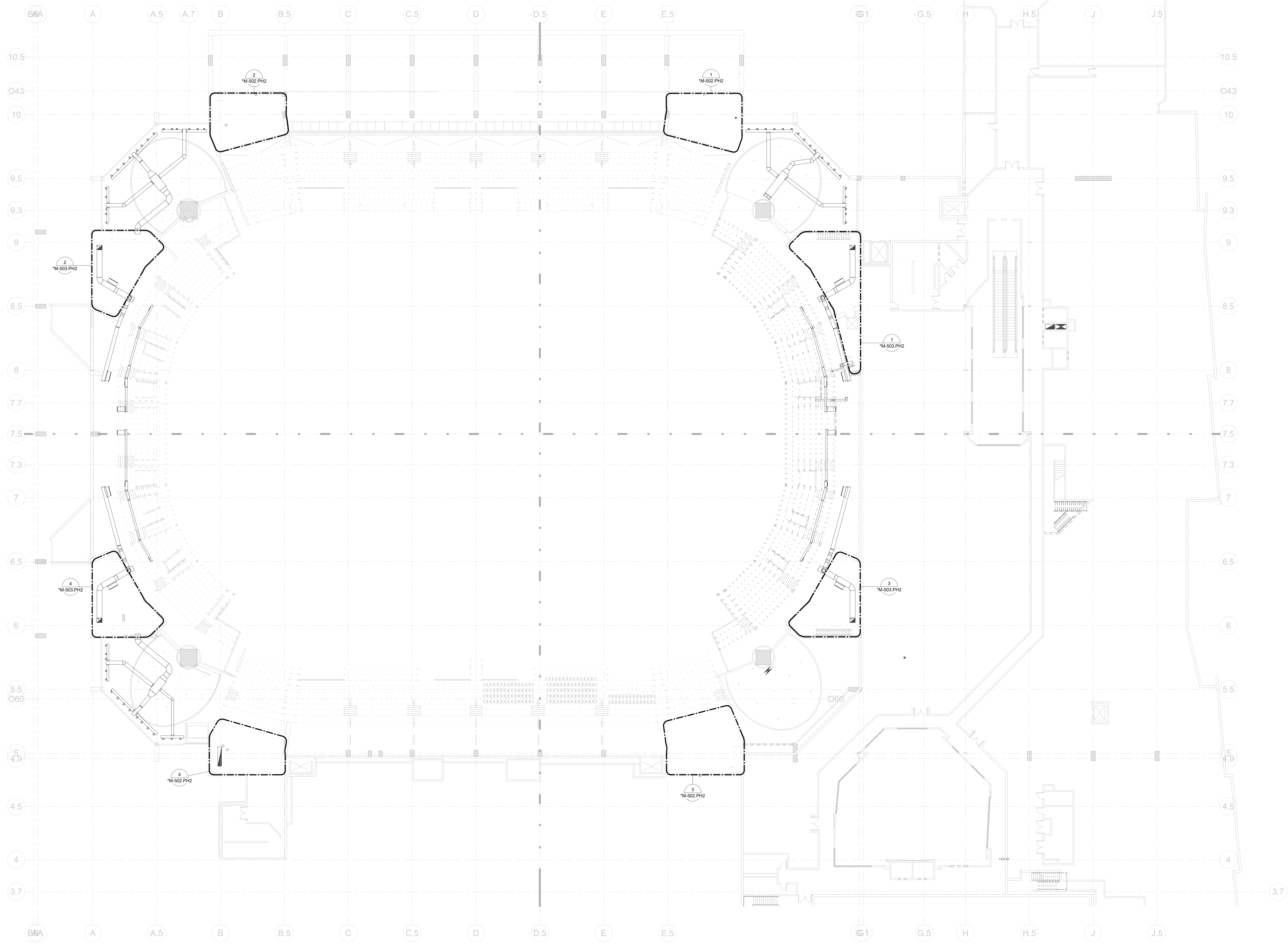
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HARTFORD, CT

DWG. TITLE
LEVEL 71 - MECHANICAL DEMOLITION PHASE 2

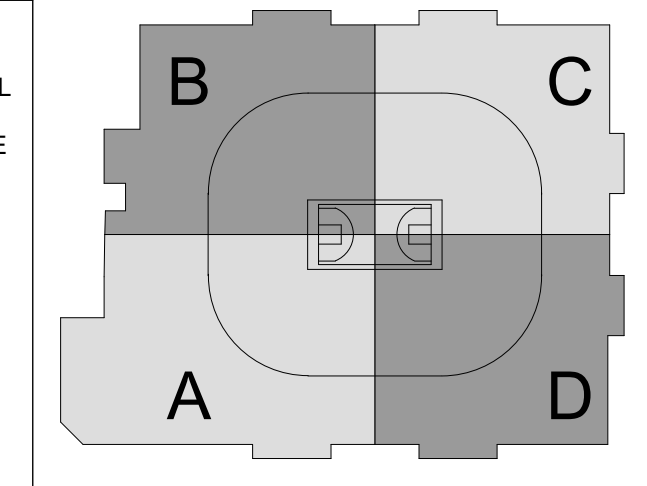
SCALE
1/16" = 1'-0"

DWG. NO.
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1605



- GENERAL NOTES:**
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KEYNOTES

NO.	DESCRIPTION	DATE
1	ISSUED FOR TIA 90	10/1/99

REVISIONS/ ISSUES

CONTRACTOR SHALL CHECK AND VERIFY ALL DIMENSIONS AND REPORT ANY OMISSIONS OR DISCREPANCIES TO THE ARCHITECT BEFORE PROCEEDING WITH THE WORK. DO NOT SCALE THE DRAWINGS.

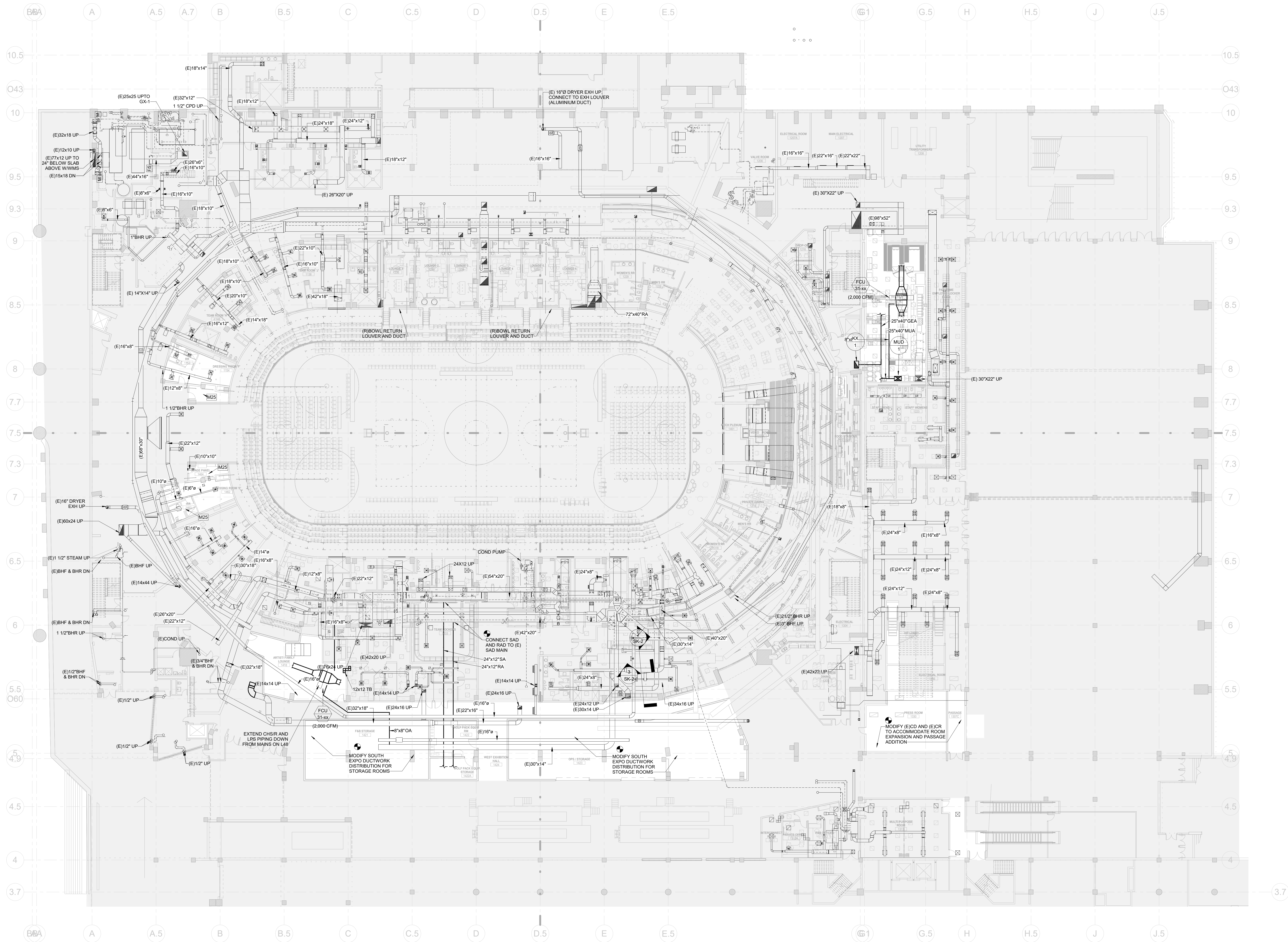
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 HARTFORD, CT

DWG. TITLE:
LEVEL 80 - MECHANICAL DEMOLITION PHASE 2

SCALE: 1/16" = 1'-0"
 DWG. NO.: M-105.PH2
 PROJ. NO.: 1605

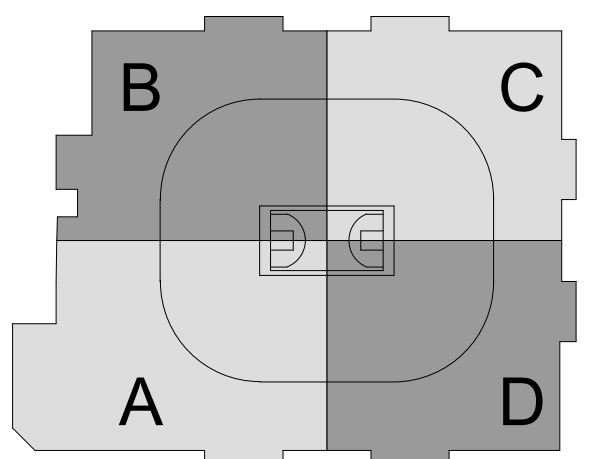


GENERAL NOTES:

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- CONTRACTOR SHALL PROVIDE CORE DRILLING AS REQUIRED FOR NEW PIPE PENETRATIONS.
- COORDINATION DRAWINGS SHALL BE PREPARED TO ENSURE ROUTING AVOIDS CONFLICTS WITH NEW AND EXISTING WORK. CONTRACTOR SHALL COORDINATE WITH ALL OTHER TRADES.
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- PROVIDE VOLUME DAMPERS AT ALL DUCT BRANCH TAKE OFF'S. PROVIDE CORO OPERATED DAMPERS (COD'S) WHERE CEILING ARE NOT READILY ACCESSIBLE. EXTEND CORO FROM COD TO EACH REGISTER FOR BALANCING.
- INTERM RELOCATIONS OF EXISTING SYSTEMS MAY BE REQUIRED TO ACCOMPLISH THE FINAL INDICATED SCOPE IN A STAGED MANNER. CONTRACTOR'S SCOPE SHALL INCLUDE A PHASED APPROACH AND ALL COSTS ASSOCIATED WITH THIS MAKE-READY WORK.
- PROVIDE FIRE/SMOKE DAMPERS AT ALL SHUTT PENETRATIONS. MECHANICAL ROOM WALL PENETRATIONS AND RATED ASSEMBLY PENETRATIONS. REFER TO ARCH. FOR RATED ASSEMBLY TYPES AND LOCATIONS.
- PROVIDE 1/2"x1/2" WIRE MESH SCREEN ON ALL OPEN DUCTS TAPPED TO SHUTT PLENUM.
- COORDINATE ALL FINAL GRID'S, THERMOSTATS, SENSORS, AND SIMILAR EXPOSED DEVICES WITH ARCHITECTURAL PLANS.
- CONTRACTOR IS RESPONSIBLE FOR ALL CEILING REMOVALS AND REINSTALLATIONS REQUIRED TO COMPLETE WORK. PROVIDE CEILING TILES AS REQUIRED. CEILING TILES SHALL MATCH EXISTING.
- ALL GREASE EXHAUST (KX) DUCTWORK TO BE ROUTED TO ASSOCIATED FAN WITH ADEQUATE SLOPE AND CLEANOUTS PER CODE. PROVIDE 2 HR RATED DUCT WRAP WITH REMOVABLE ACCESS COVERS DOORS AT ALL CLEANOUTS.

KEYNOTES

- M22 REPLACE THE DUCTWORK/DIFFUSERS IN AREA.



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REVISIONS/ ISSUES

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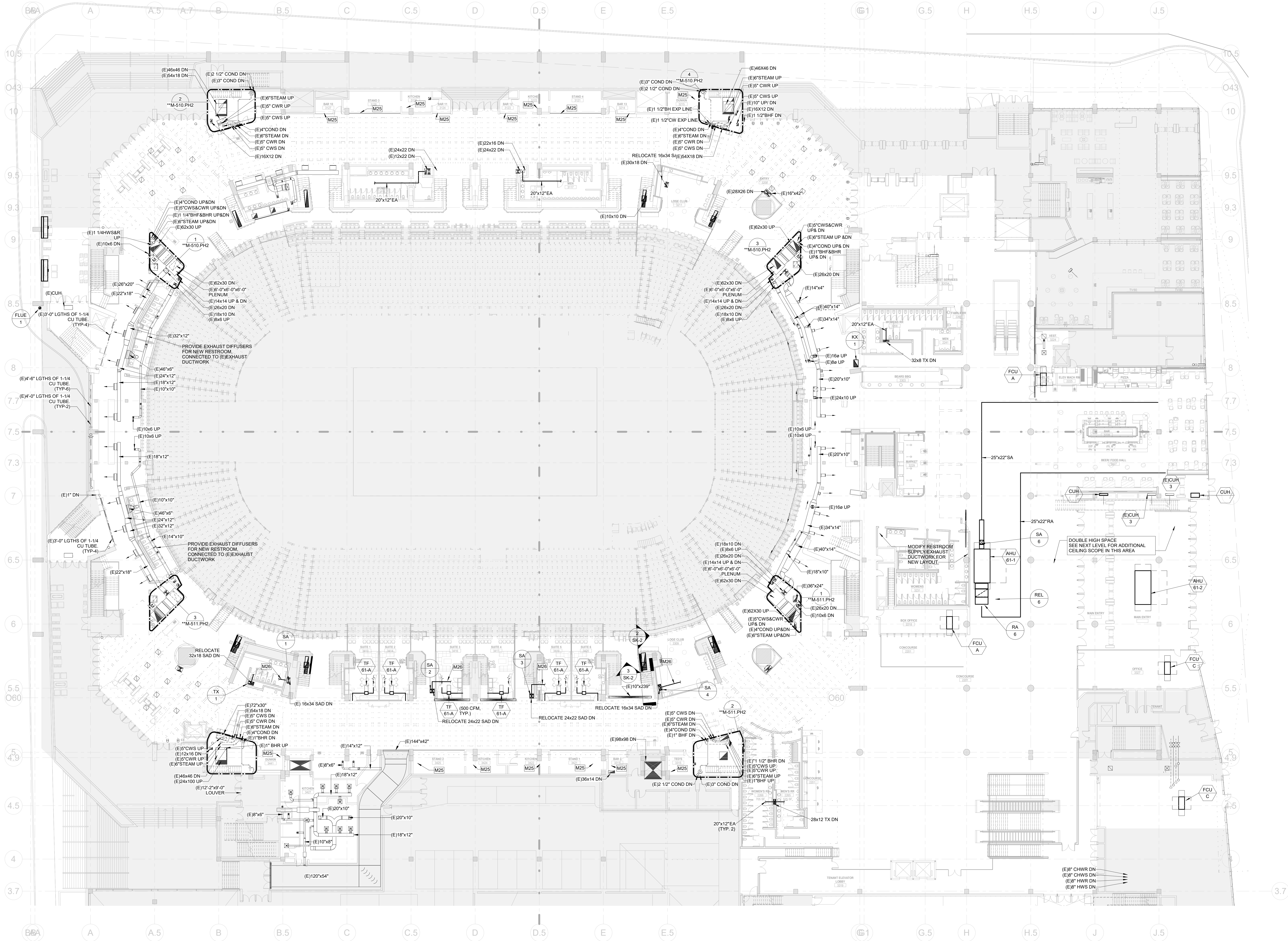
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1 CIVIC CENTER PLAZA
HARTFORD, CT

DWG. TITLE
LEVEL 31 - MECHANICAL
CONSTRUCTION PHASE 2

SCALE	1/16" = 1'-0"	DWG. NO.	M-201.PH2
PROJ. NO.	1605		

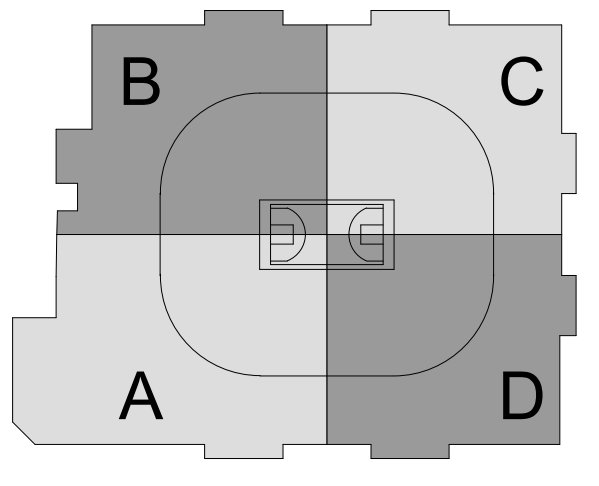


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 - PROVIDE VOLUME DAMPERS AT ALL DUCT BRANCH TAKE OFF'S. PROVIDE CORROSION RESISTANT DAMPERS (CORD'S) WHERE CEILING ARE NOT READILY ACCESSIBLE. EXTEND CORROSION RESISTANT TO EACH REGISTER FOR BALANCING.
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 - PROVIDE FIRESTOP DAMPERS AT ALL SHUTT PENETRATIONS. MECHANICAL ROOM WALL PENETRATIONS AND RATED ASSEMBLY PENETRATIONS. REFER TO ARCH. FOR RATED ASSEMBLY TYPES AND LOCATIONS.
 - PROVIDE 1/2"x1/2" WIRE MESH SCREEN ON ALL OPEN DUCTS TAPPED TO SHUTT PLENUM.
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KEYNOTES

M25 REPLACE THE DUCTWORK/OFFUSERS IN AREA.

M26 DUCTWORK SHALL BE REDISTRIBUTED WITHIN THIS AREA TO SERVE NEW SUITES.



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(212) 447-6770

NOT FOR CONSTRUCTION

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REVISIONS/ ISSUES

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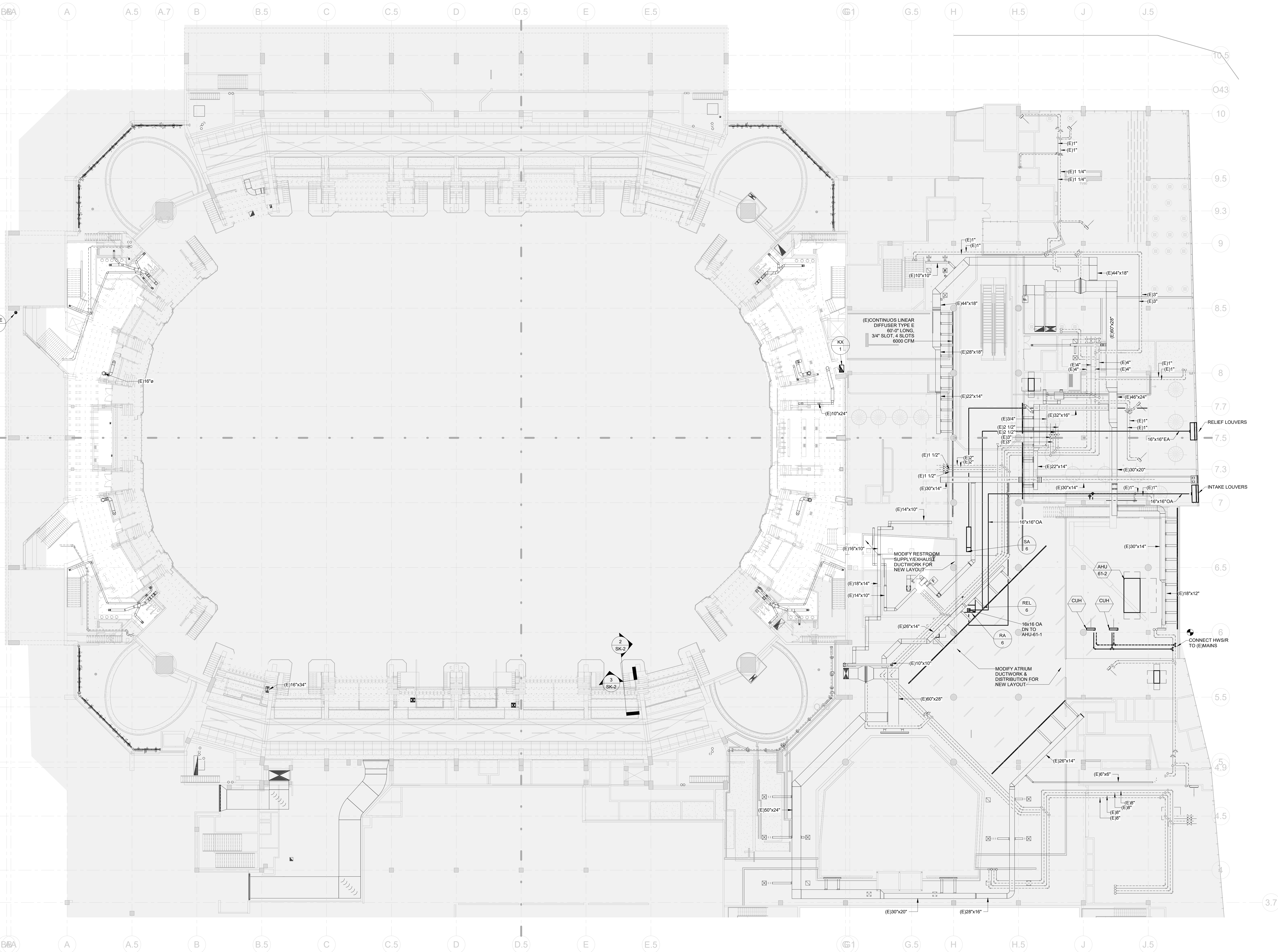
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HARTFORD, CT

DWG. TITLE
LEVEL 61 - MECHANICAL
CONSTRUCTION PHASE 2

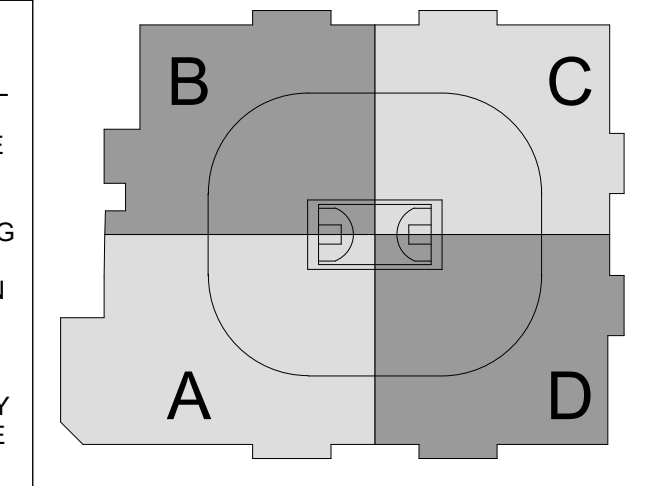
SCALE
1/16" = 1'-0"

DWG. NO.
M-203.PH2

PROJ. NO.
1605



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 - PROVIDE VOLUME DAMPERS AT ALL DUCT BRANCH TAKE OFF'S. PROVIDE COND OPERATED DAMPERS (COO'S) WHERE CEILING ARE NOT READILY ACCESSIBLE. EXTEND COO'S FROM COO TO EACH REGISTER FOR BALANCING.
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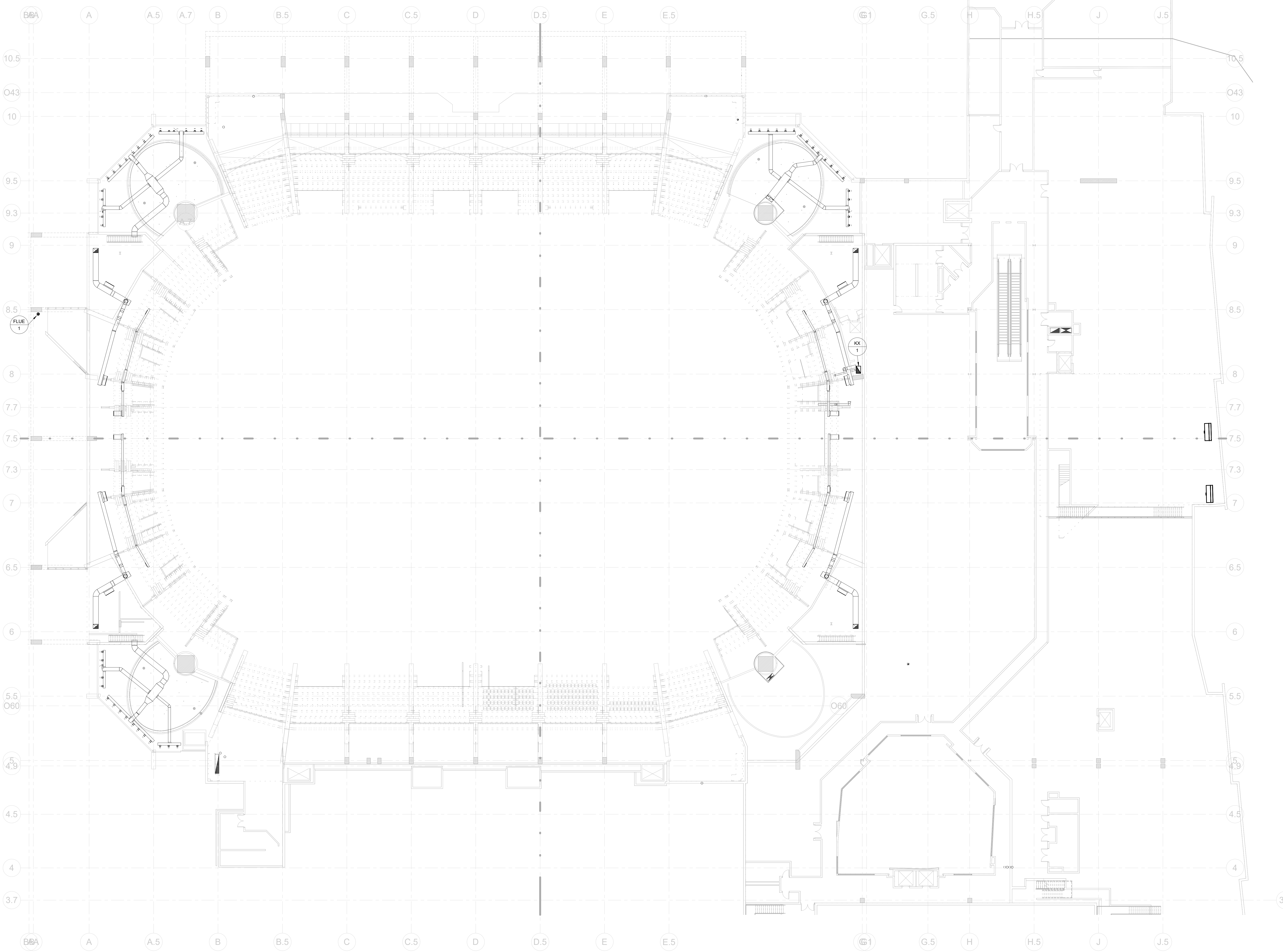
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 HARTFORD, CT

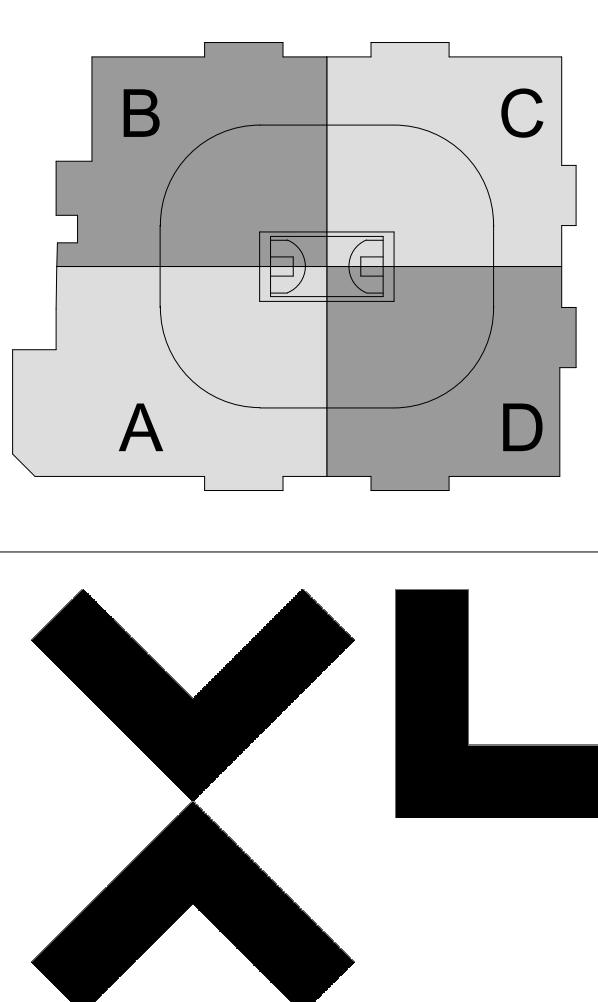
DWG. TITLE
LEVEL 71 - MECHANICAL CONSTRUCTION PHASE 2

SCALE
 1/16" = 1'-0"
 PROJ. NO.
 1605
 DWG. NO.
M-204.PH2



GENERAL NOTES:

1. EXISTING SYSTEMS INFORMATION IS SHOWN FOR REFERENCE ONLY TO CLARIFY SCOPE. CONTRACTOR SHALL FIELD VERIFY THESE EXISTING CONDITIONS TO CONFIRM THE PRECISE IN-LOCATIONS FOR NEW WORK. REFER TO DEMOLITION PLANS FOR ADDITIONAL INFORMATION REGARDING EXISTING SYSTEMS. EXISTING SYSTEMS NOTES ARE NOT SHOWN ON CONSTRUCTION PLANS FOR CLARITY OF THE DRAWINGS.
2. THE CONTRACTOR SHALL FREEZE ANY AND ALL PIPING THAT DOES NOT HAVE A POSITIVE SHUT DOWN OR OPERATING EXISTING VALVE. CONTRACTOR SHALL PROVIDE VALVES TO INSTALL AND BE ADVISED THAT THE WORK MAY BE REQUIRED TO BE DONE ON PREMIUM TIME.
3. CONTRACTOR SHALL PROVIDE CORE DRILLING AS REQUIRED FOR NEW PIPE PENETRATIONS.
4. COORDINATION DRAWINGS SHALL BE PREPARED TO ENSURE ROUTING AVOIDS CONFLICTS WITH NEW AND EXISTING WORK. CONTRACTOR SHALL COORDINATE WITH ALL OTHER TRADES.
5. ALL WORK AFFECTING BUILDING SYSTEM OPERATION SHALL BE COORDINATED WITH BUILDING ENGINEERING.
6. DUCTWORK SHALL BE ROUTED TO AVOID IMPACTING ALL EXISTING CEILING HEIGHTS. PROVIDE RISE AND FALLS AS NECESSARY TO AVOID OBSTRUCTIONS, SUCH AS STRUCTURAL ELEMENTS AND EXISTING TO REMAIN PIPING.
7. PROVIDE VOLUME DAMPERS AT ALL DUCT BRANCH TAKE OFF'S. PROVIDE COORD OPERATED DAMPERS (COO'S) WHERE CEILINGS ARE NOT READILY ACCESSIBLE. EXTEND COO FROM COO TO EACH REGISTER FOR BALANCING.
8. INTERM RELOCATIONS OF EXISTING SYSTEMS MAY BE REQUIRED TO ACCOMPLISH THE FINAL INDICATED SCOPE IN A STAGED MANNER. CONTRACTOR'S SCOPE SHALL INCLUDE A PHASED APPROACH AND ALL COSTS ASSOCIATED WITH THIS MAKE-READY WORK.
9. PROVIDE FIRE-SMOKES DAMPERS AT ALL SHUTT PENETRATIONS. MECHANICAL ROOM WALL PENETRATIONS AND RATED ASSEMBLY PENETRATIONS. REFER TO ARCH. FOR RATED ASSEMBLY TYPES AND LOCATIONS.
10. PROVIDE 1/2"X1/2" WIRE MESH SCREEN ON ALL OPEN DUCTS TAPPED TO SHUTT FLENUM.
11. COORDINATE ALL FINAL GRID, THERMOSTATS, SENSORS, AND SIMILAR EXPOSED DEVICES WITH ARCHITECTURAL PLANS.
12. CONTRACTOR IS RESPONSIBLE FOR ALL CEILING REMOVALS AND REINSTALLATIONS REQUIRED TO COMPLETE WORK. PROVIDE CEILING TILES AS REQUIRED. CEILING TILES SHALL MATCH EXISTING.
13. ALL GREASE EXHAUST (GX) DUCTWORK TO BE ROUTED TO ASSOCIATED FAN WITH ADEQUATE SLOPE AND CLEANOUTS PER CODE. PROVIDE 2 HR RATED DUCT WRAP WITH REMOVABLE ACCESS COVERS DOORS AT ALL CLEANOUTS.



XL CENTER

CAPITAL REGION DEVELOPMENT AUTHORITY

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 489 SEVENTH AVE, SUITE 900
 NEW YORK, NY 10018
 (646) 658-7410

me engineers
 29 W 38th STREET, 5th FLOOR
 NEW YORK, NY 10018
 (212) 447-6770

NOT FOR CONSTRUCTION

KEYNOTES

NO.	DESCRIPTION	DATE

REVISIONS/ ISSUES

CONTRACTOR SHALL CHECK AND VERIFY ALL DIMENSIONS AND REPORT ANY OMISSIONS OR DISCREPANCIES TO THE ARCHITECT BEFORE PROCEEDING WITH THE WORK. DO NOT SCALE THE DRAWINGS.

SEAL

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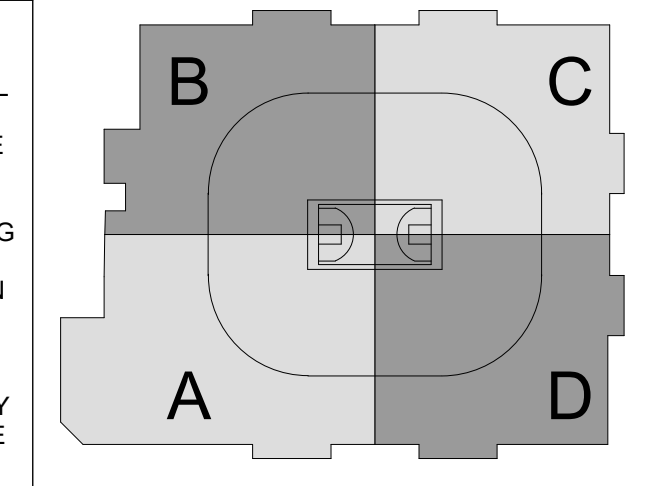
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HARTFORD, CT

DWG. TITLE
LEVEL 80 - MECHANICAL
CONSTRUCTION PHASE 2

SCALE 1/16" = 1'-0"	DWG. NO. M-205.PH2
PROJ. NO. 1605	

GENERAL NOTES:

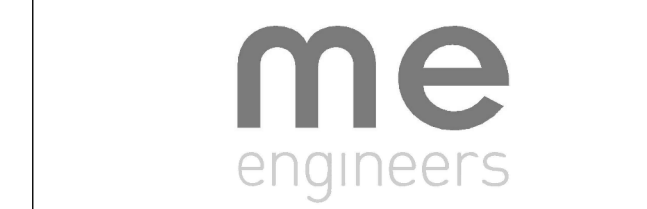
- EXISTING SYSTEMS INFORMATION IS SHOWN FOR REFERENCE ONLY TO CLARIFY SCOPE. CONTRACTOR SHALL FIELD VERIFY THESE EXISTING CONDITIONS TO CONFIRM THE PRECISE TIE-IN LOCATION FOR NEW WORK. REFER TO DEMOLITION PLANS FOR ADDITIONAL INFORMATION REGARDING EXISTING SYSTEMS. EXISTING SYSTEMS NOTES ARE NOT SHOWN ON CONSTRUCTION PLANS FOR CLARITY OF THE DRAWINGS.
- THE CONTRACTOR SHALL FREEZE ANY AND ALL PIPING THAT DOES NOT HAVE A POSITIVE SHUT DOWN OR OPERATING EXISTING VALVE. CONTRACTOR SHALL PROVIDE VALVES TO INSTALL AND BE ADVISED THAT THE WORK MAY BE REQUIRED TO BE DONE ON PREMIUM TIME.
- CONTRACTOR SHALL PROVIDE CORE DRILLING AS REQUIRED FOR NEW PIPE PENETRATIONS.
- COORDINATION DRAWINGS SHALL BE PREPARED TO ENSURE ROUTING AVOIDS CONFLICTS WITH NEW AND EXISTING WORK. CONTRACTOR SHALL COORDINATE WITH ALL OTHER TRADES.
- ALL WORK AFFECTING BUILDING SYSTEM OPERATION SHALL BE COORDINATED WITH BUILDING ENGINEERING.
- DUCTWORK SHALL BE ROUTED TO AVOID IMPACTING ALL EXISTING CEILING HEIGHTS. PROVIDE RISE AND FALLS AS NECESSARY TO AVOID OBSTRUCTIONS, SUCH AS STRUCTURAL ELEMENTS AND EXISTING TO REMAIN PIPING.
- PROVIDE VOLUME DAMPERS AT ALL DUCT BRANCH TAKE OFF'S. PROVIDE CORO OPERATED DAMPERS (COD'S) WHERE CEILINGS ARE NOT READILY ACCESSIBLE. EXTEND CORO FROM COD TO EACH REGISTER FOR BALANCING.
- INTERM RELOCATIONS OF EXISTING SYSTEMS MAY BE REQUIRED TO ACCOMPLISH THE FINAL INDICATED SCOPE IN A STAGED MANNER. CONTRACTOR'S SCOPE SHALL INCLUDE A PHASED APPROACH AND ALL COSTS ASSOCIATED WITH THIS MAKE-READY WORK.
- PROVIDE FIRE/RISER DAMPERS AT ALL SHUTT PENETRATIONS. MECHANICAL ROOM WALL PENETRATIONS AND RATED ASSEMBLY PENETRATIONS. REFER TO ARCH. FOR RATED ASSEMBLY TYPES AND LOCATIONS.
- PROVIDE 1/2"x1/2" WIRE MESH SCREEN ON ALL OPEN DUCTS TAPPED TO SHUTT FLENUM.
- COORDINATE ALL FINAL GRID, THERMOSTATS, SENSORS, AND SIMILAR EXPOSED DEVICES WITH ARCHITECTURAL PLANS.
- CONTRACTOR IS RESPONSIBLE FOR ALL CEILING REMOVALS AND REINSTALLATIONS REQUIRED TO COMPLETE WORK. PROVIDE CEILING TILES AS REQUIRED. CEILING TILES SHALL MATCH EXISTING.
- ALL GREASE EXHAUST (GX) DUCTWORK TO BE ROUTED TO ASSOCIATED FAN WITH ADEQUATE SLOPE AND CLEANOUTS PER CODE. PROVIDE 2 HR RATED DUCT WRAP WITH REMOVABLE ACCESS COVERS DOORS AT ALL CLEANOUTS.



CAPITAL REGION DEVELOPMENT AUTHORITY

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(646) 658-7410



29 W 38th STREET, 5th FLOOR
NEW YORK, NY 10018
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KEYNOTES

NO.	DESCRIPTION	DATE
1	ADD - ISSUED FOR TPA 90	12/1/20
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REVISIONS/ ISSUES

CONTRACTOR SHALL CHECK AND VERIFY ALL DIMENSIONS AND REPORT ANY OMISSIONS OR DISCREPANCIES TO THE ARCHITECT BEFORE PROCEEDING WITH THE WORK. DO NOT SCALE THE DRAWINGS.

SEAL

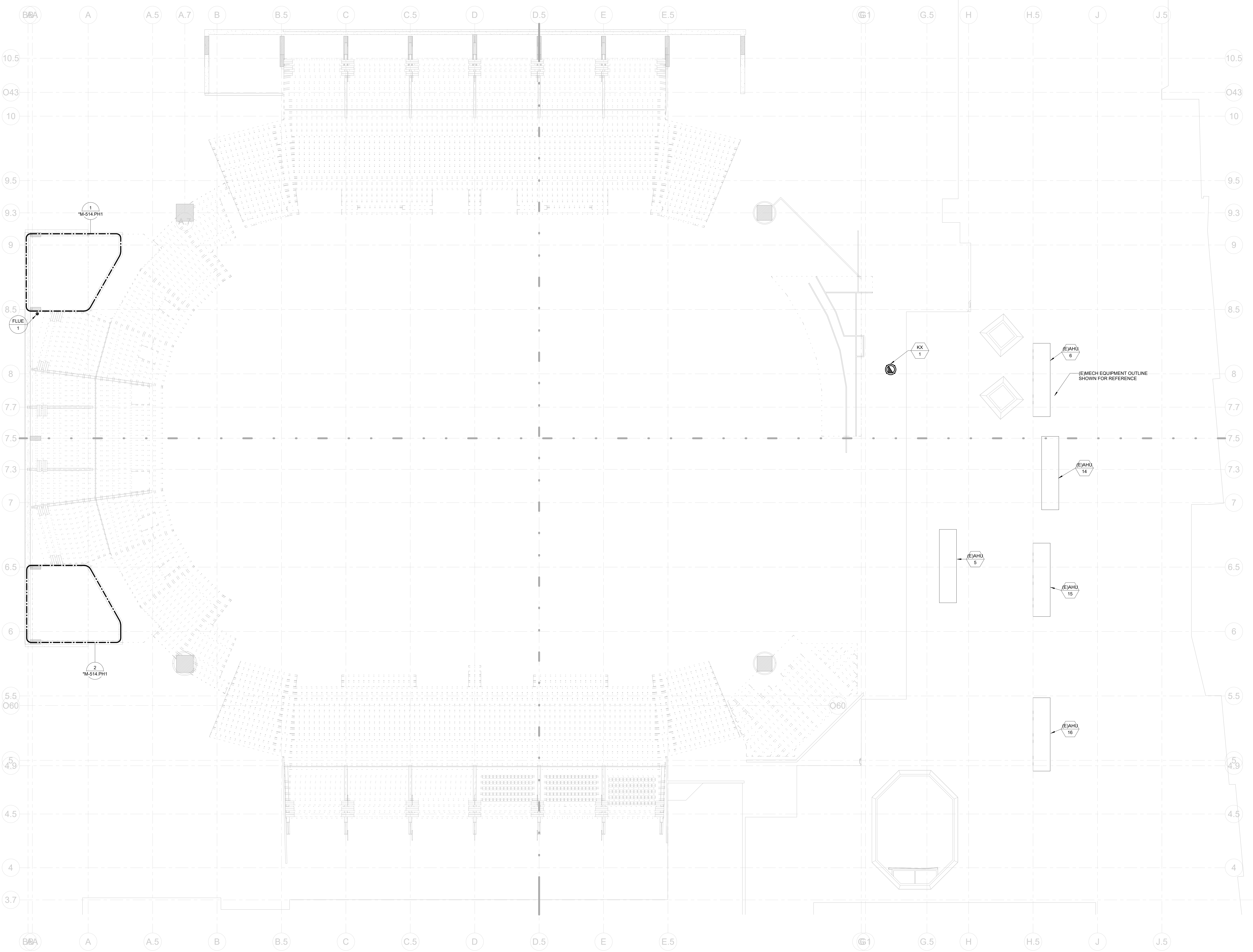
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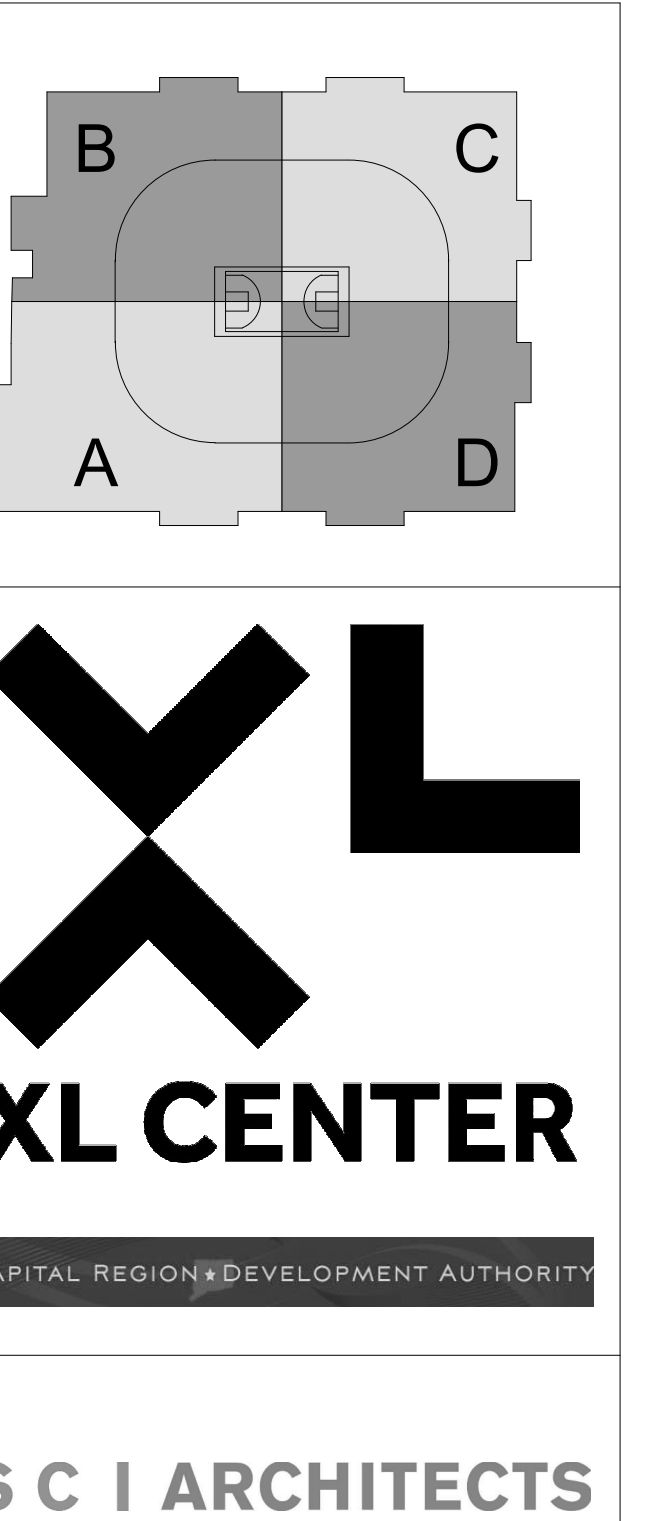
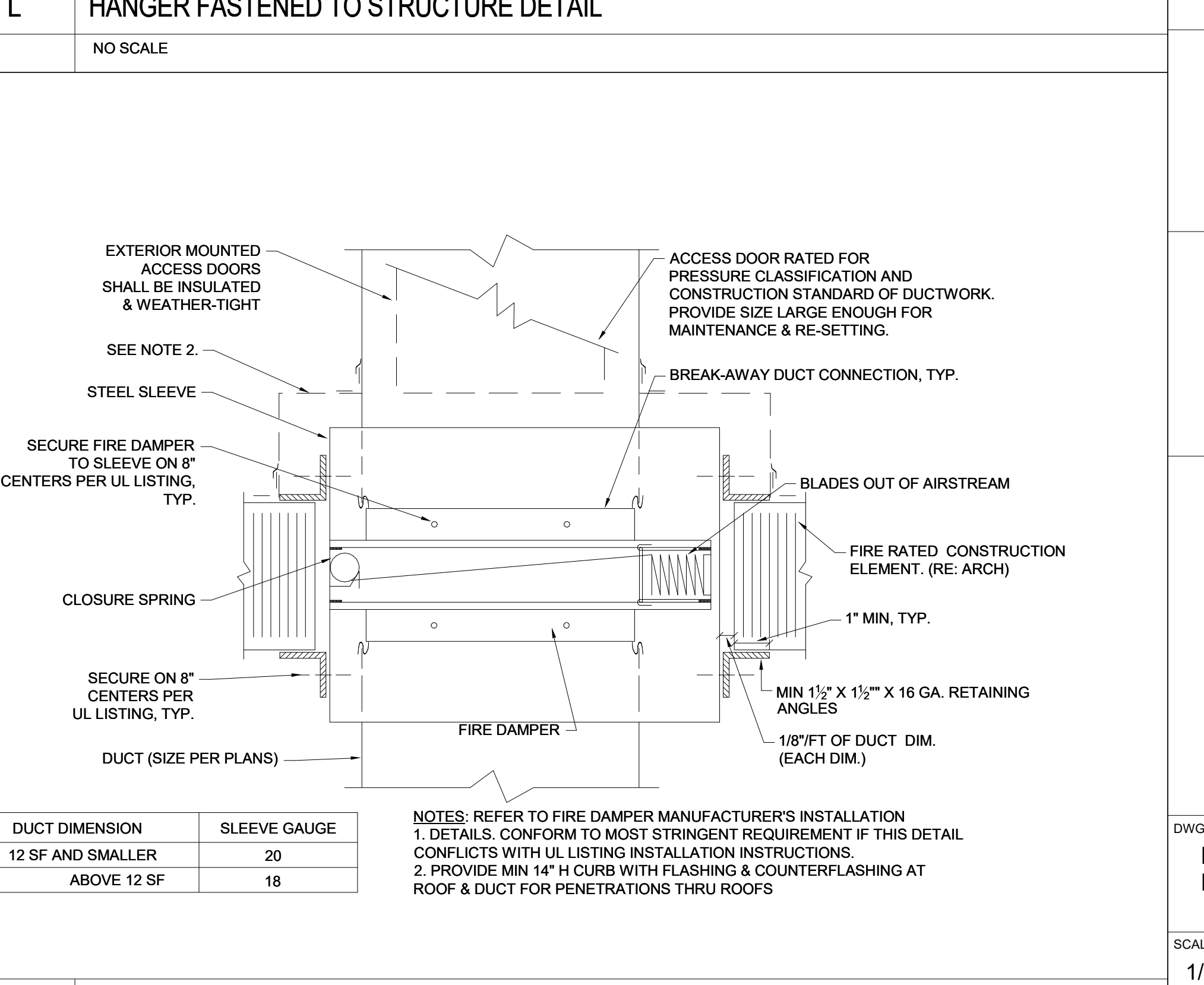
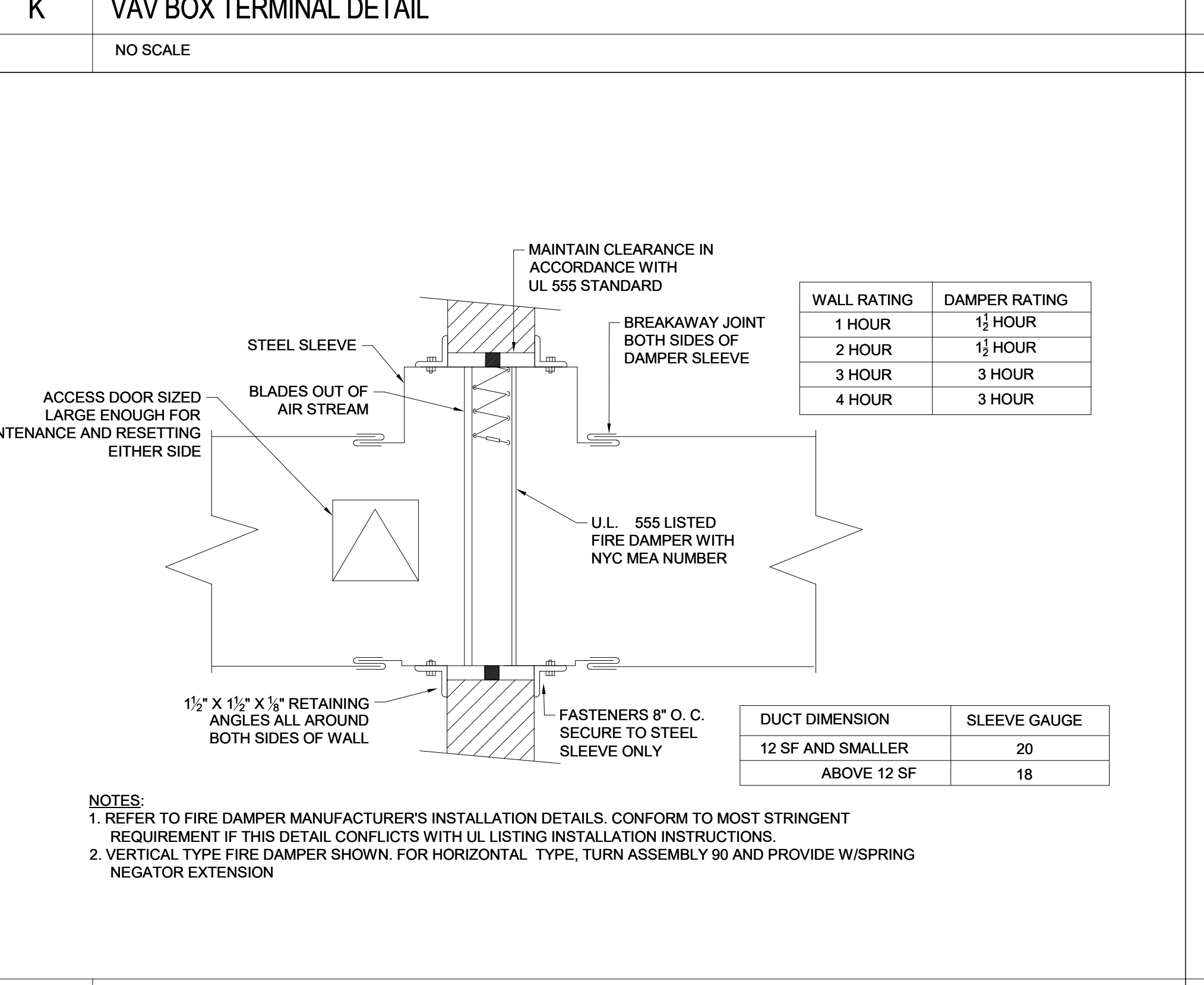
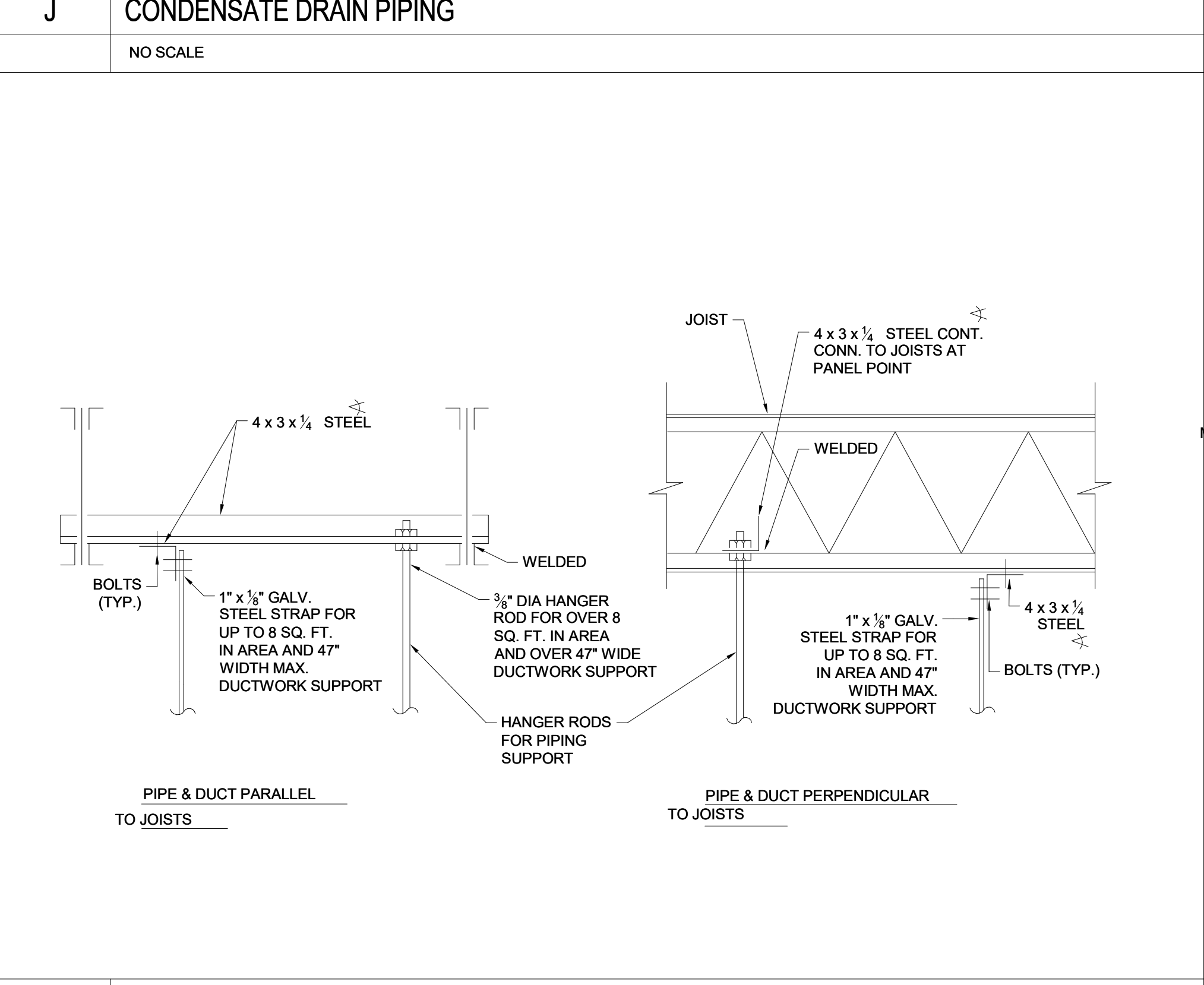
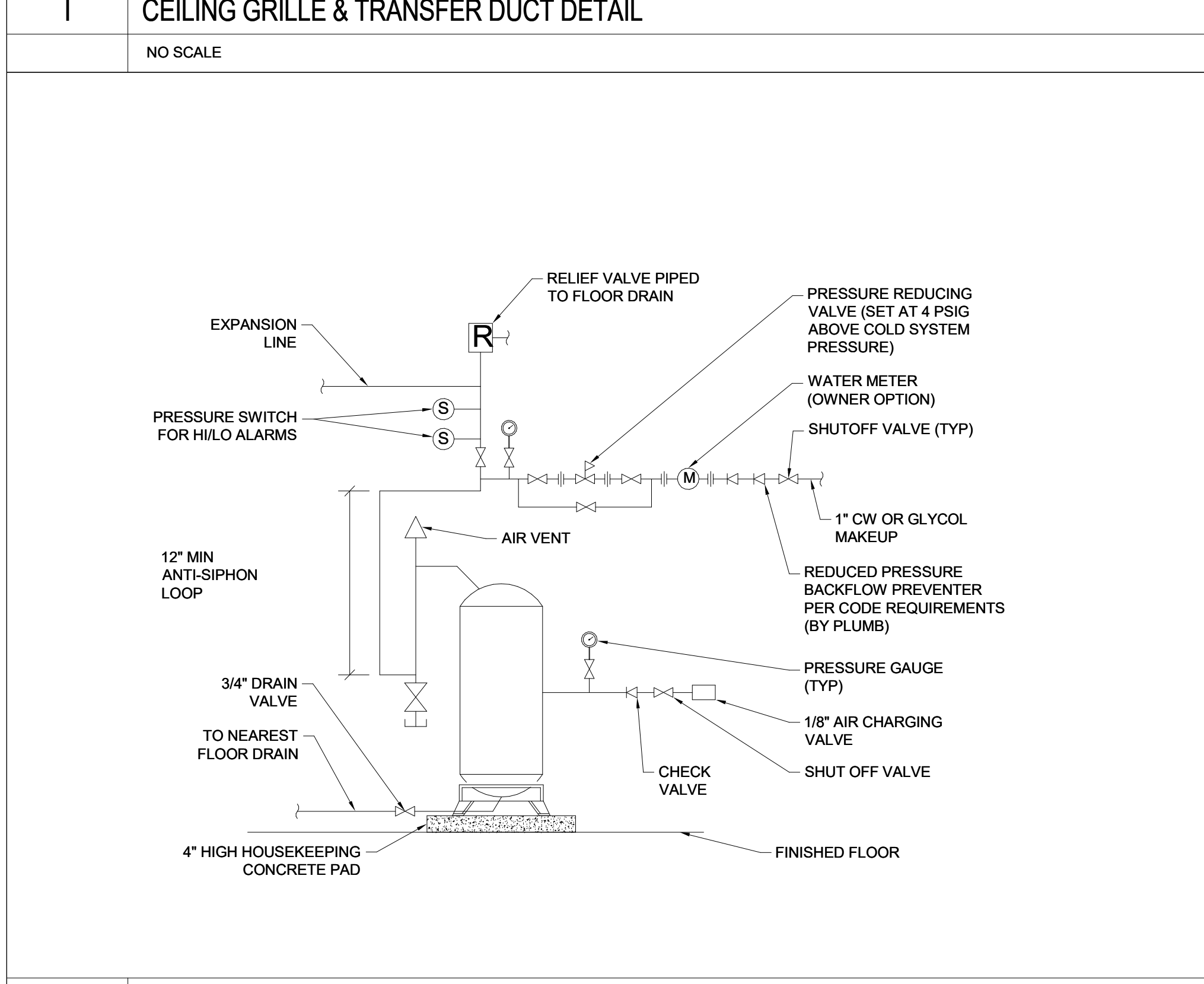
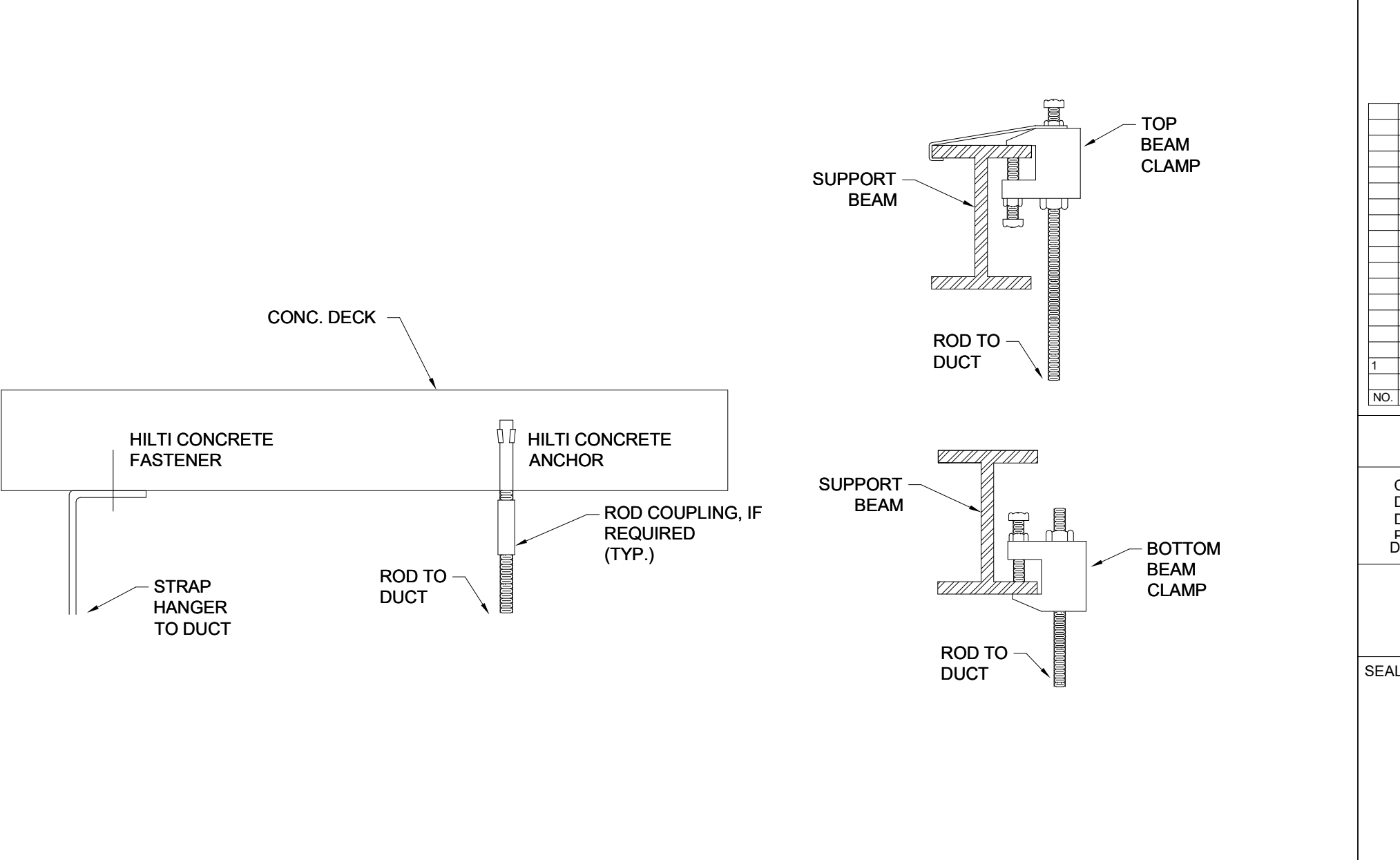
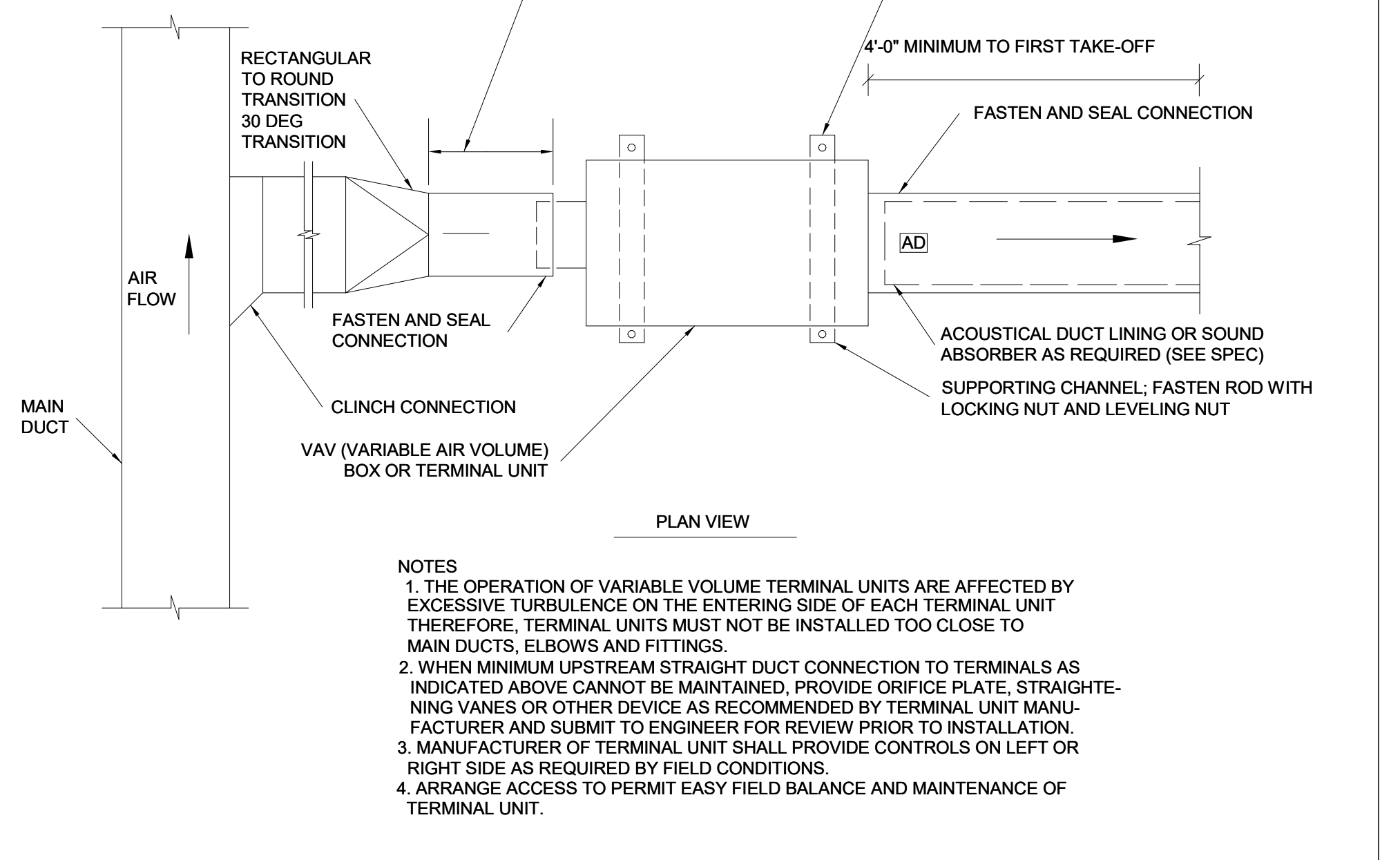
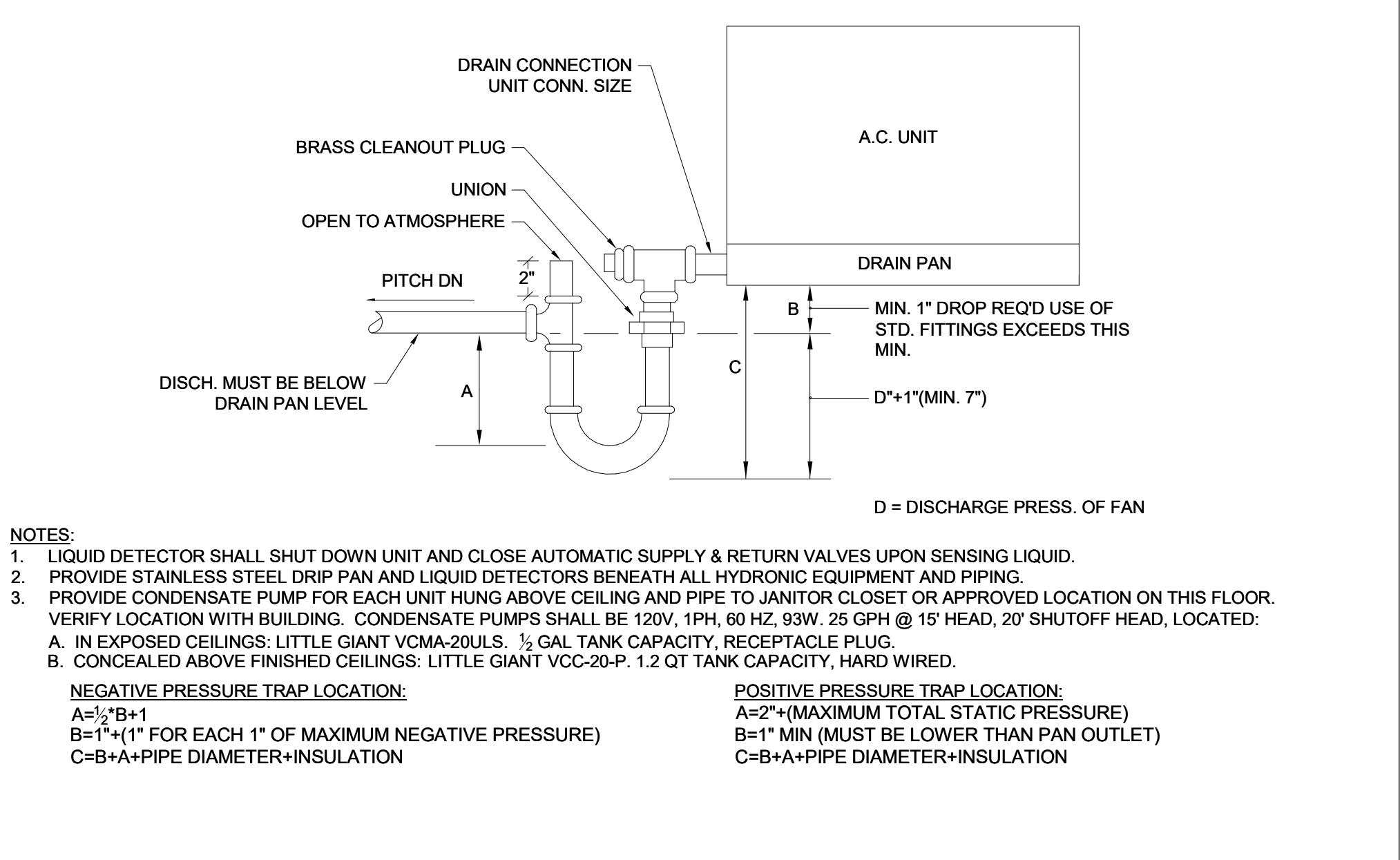
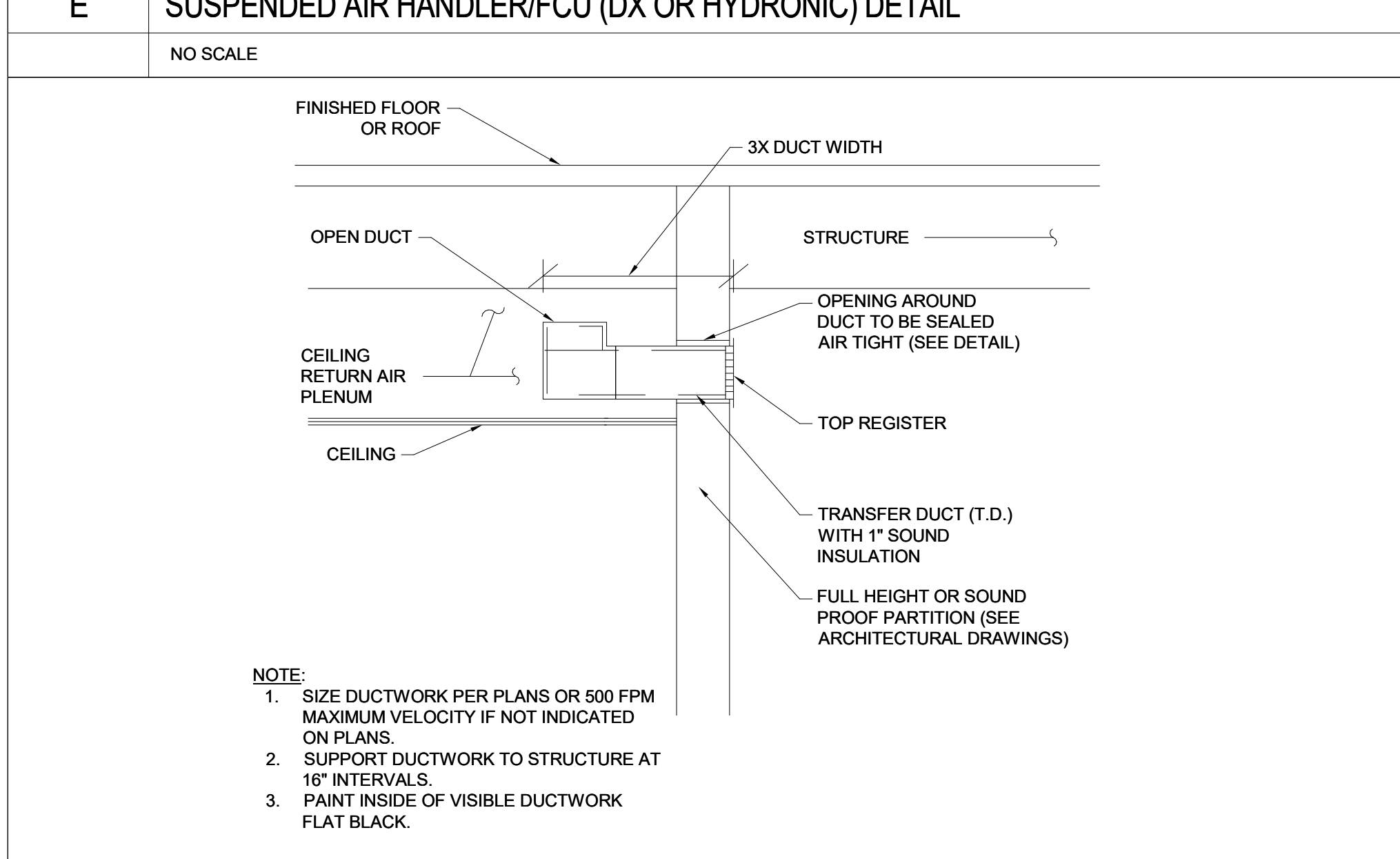
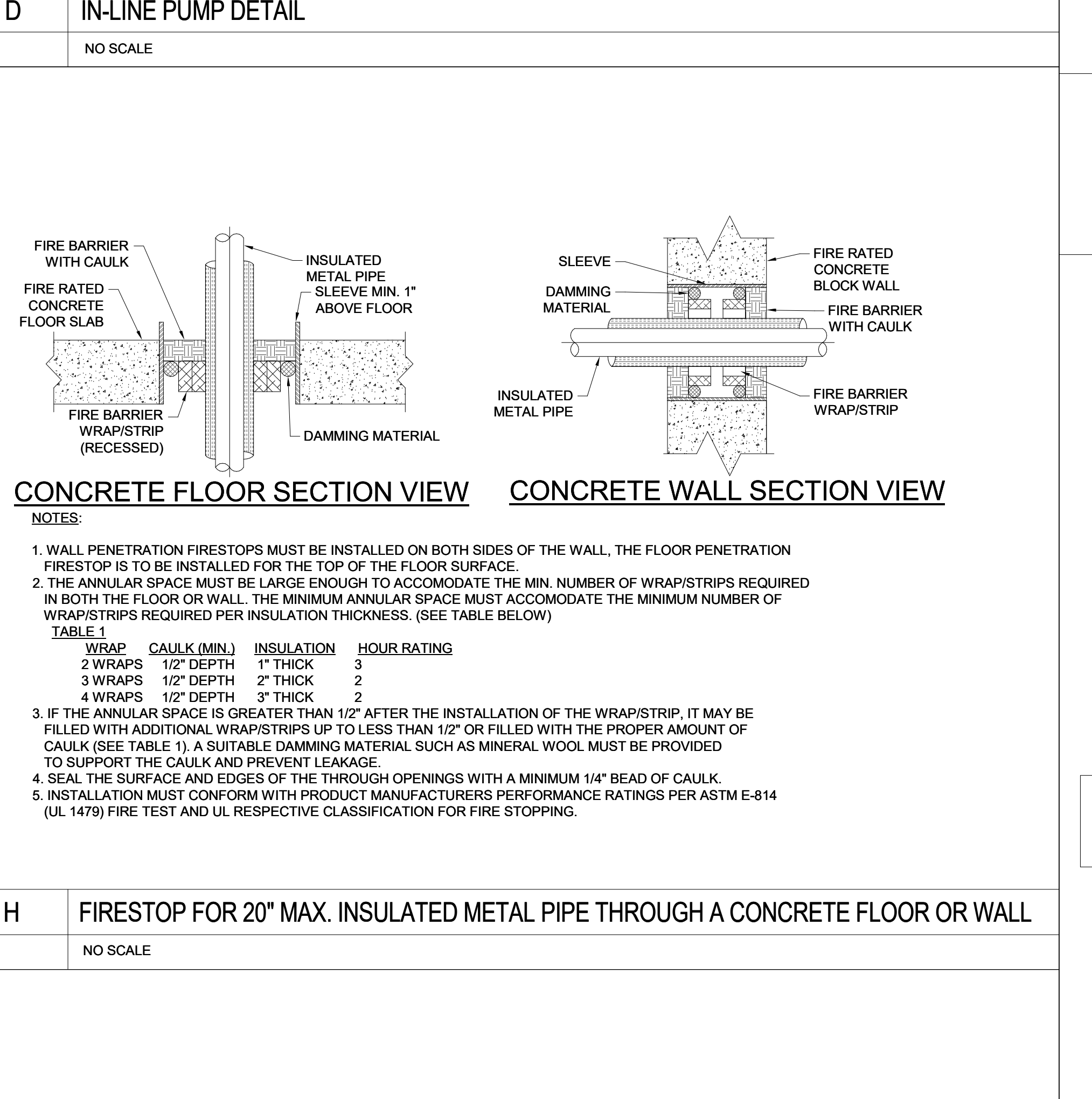
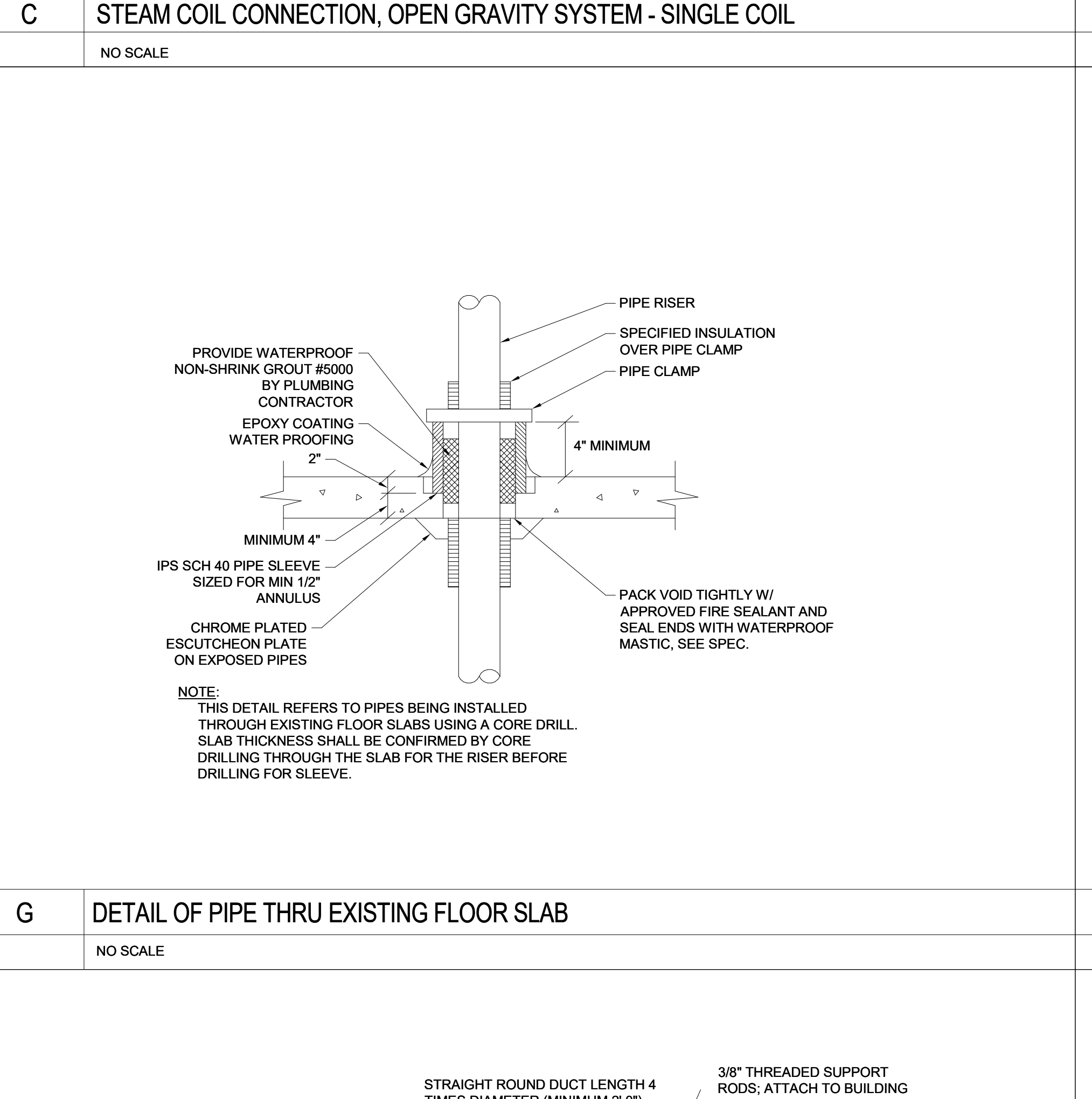
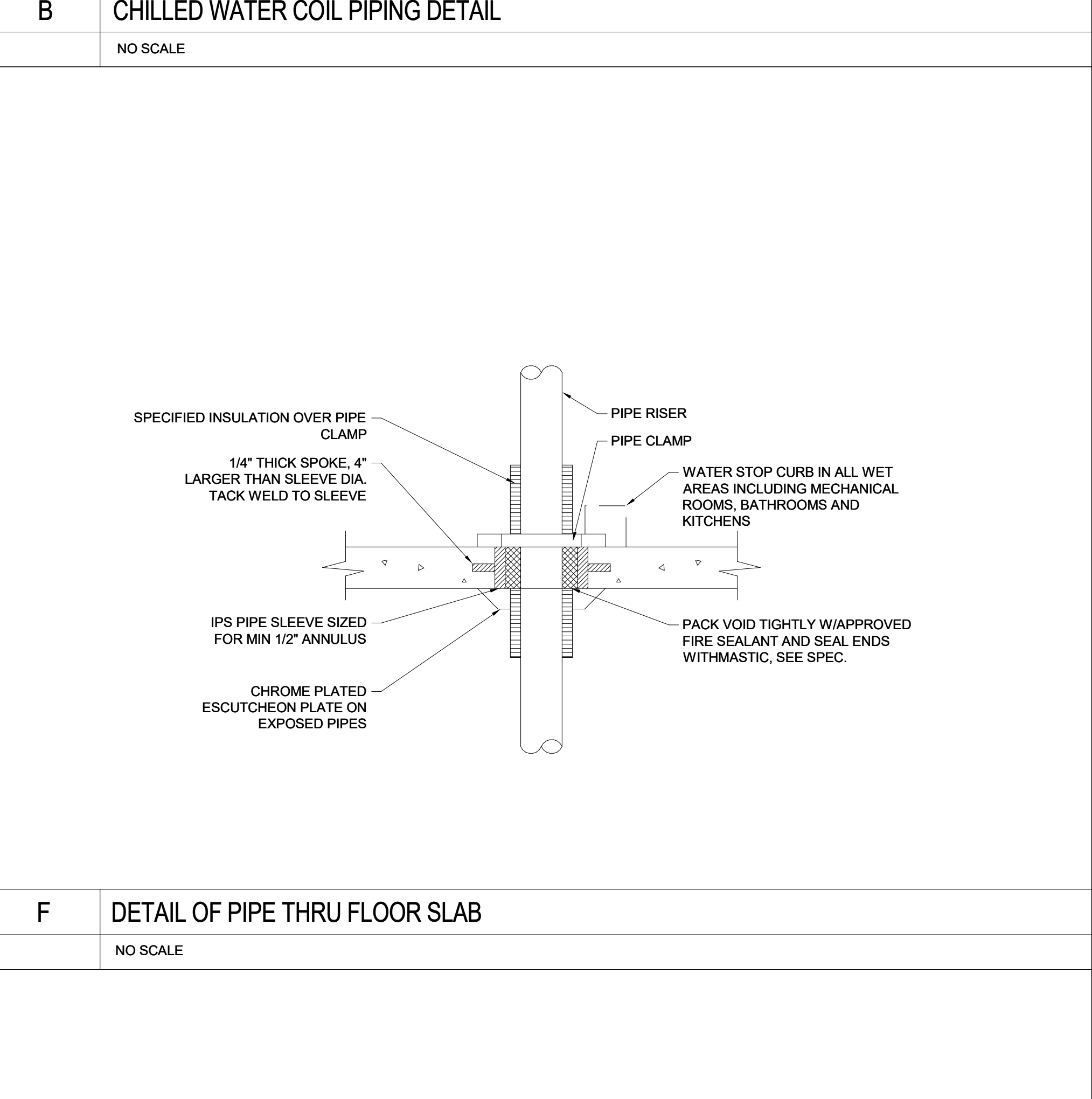
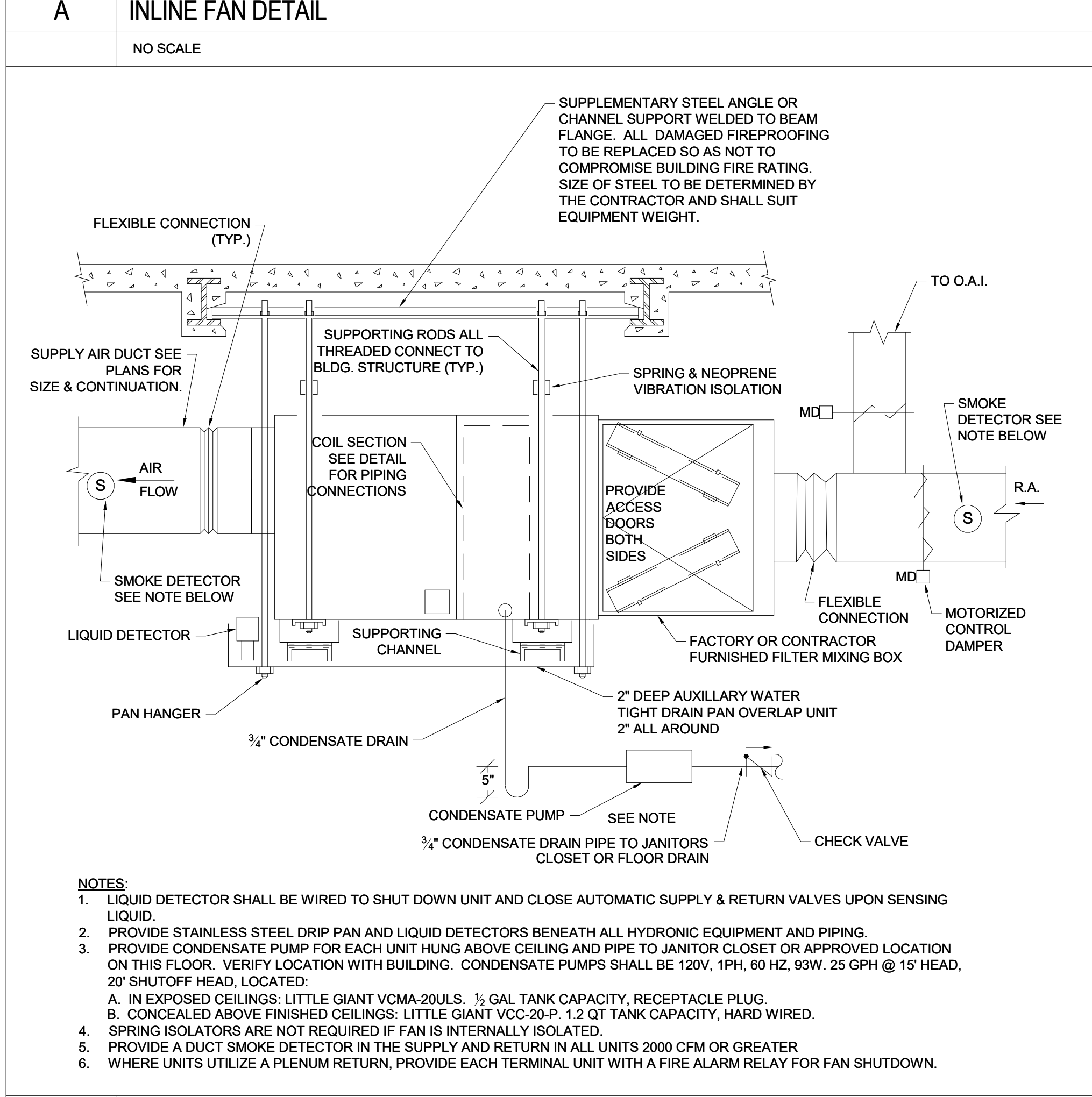
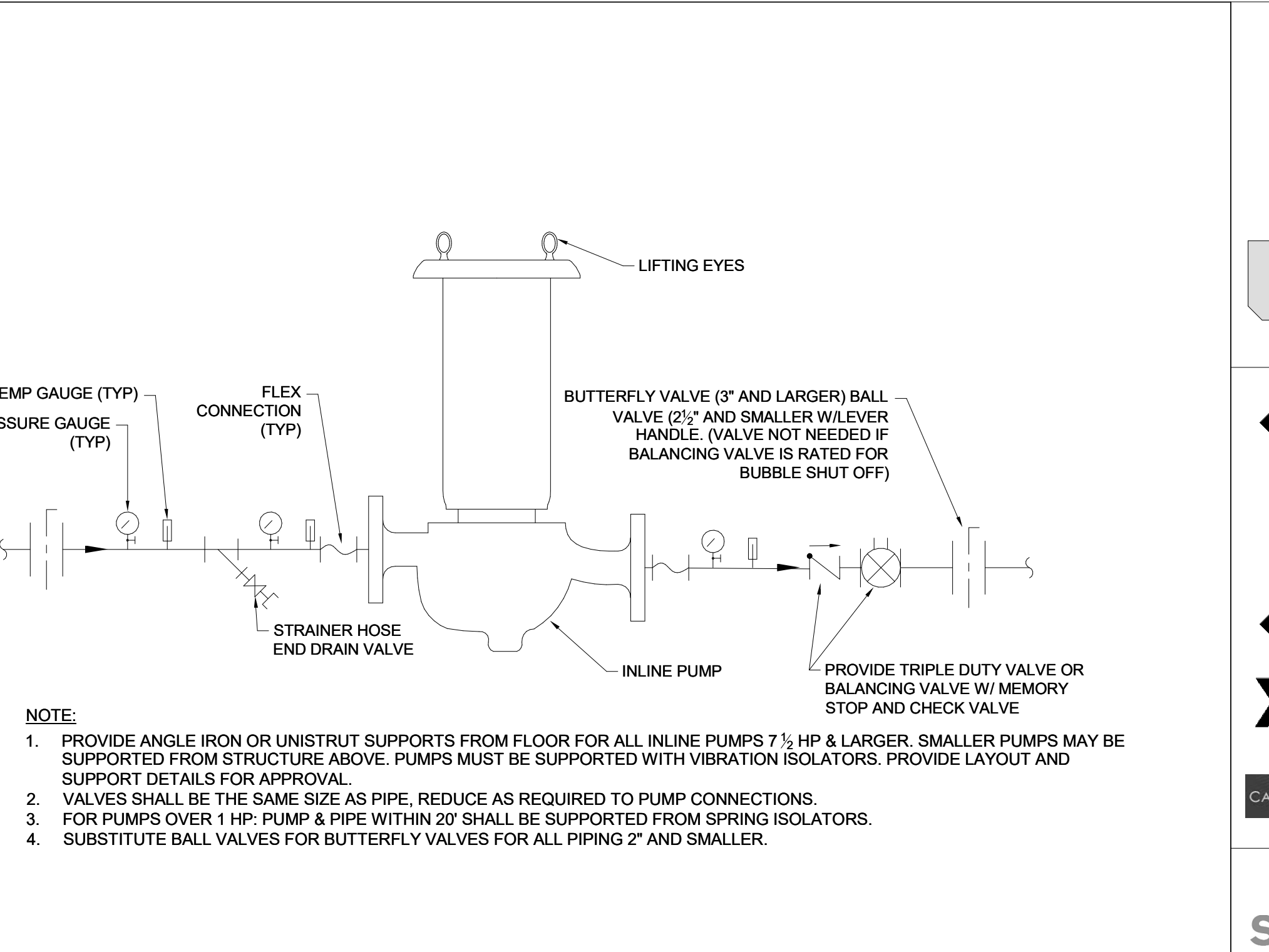
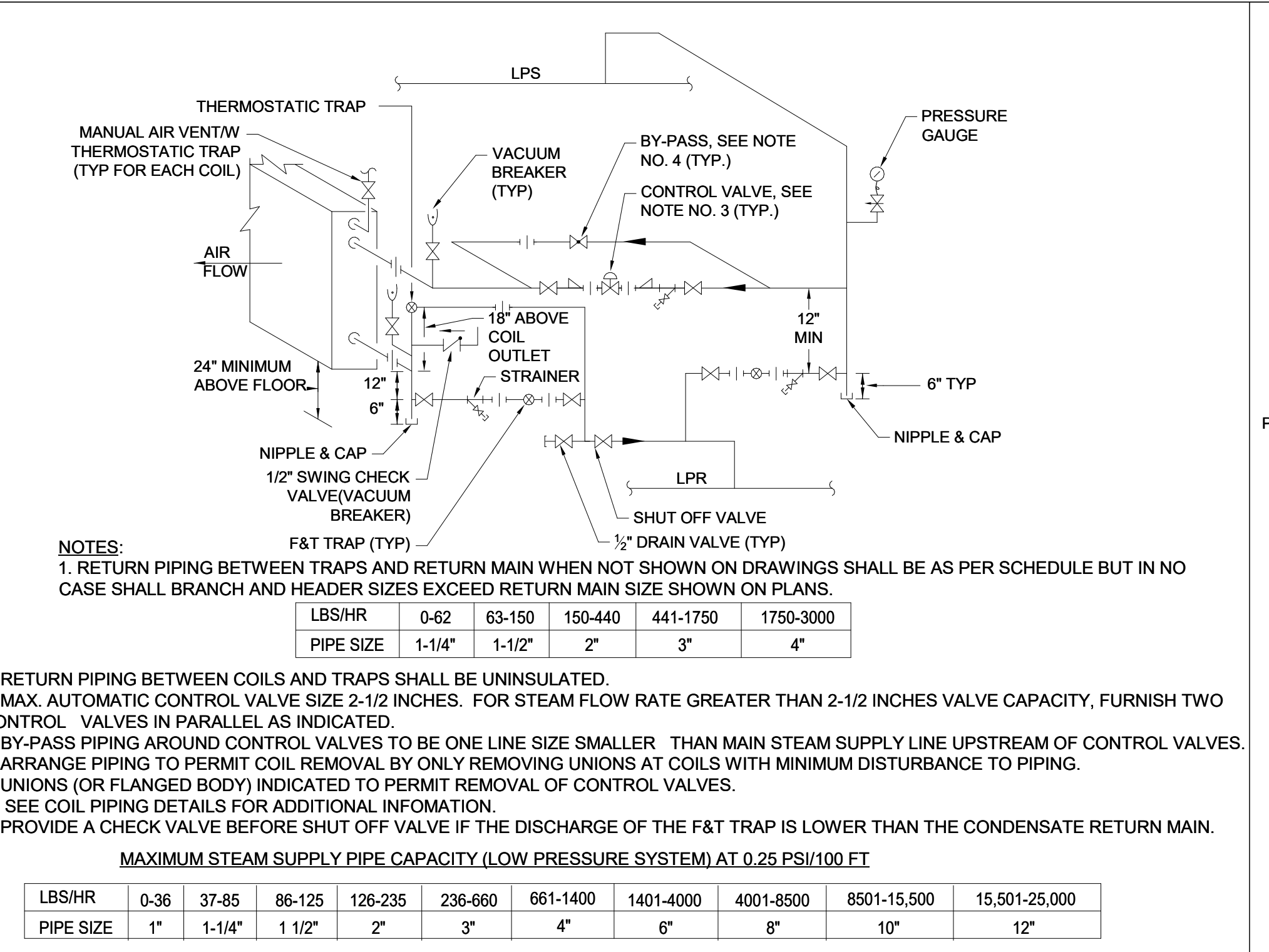
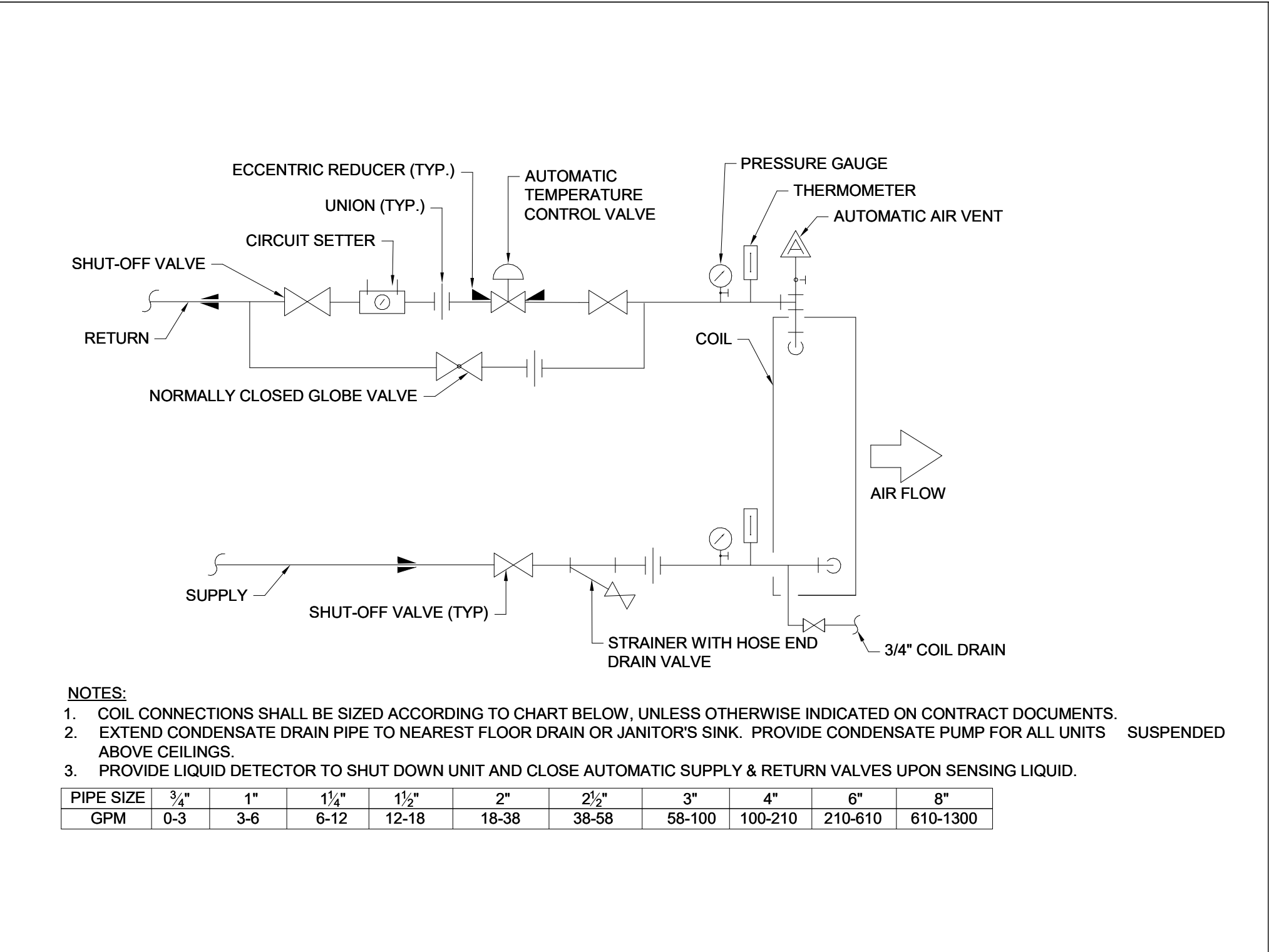
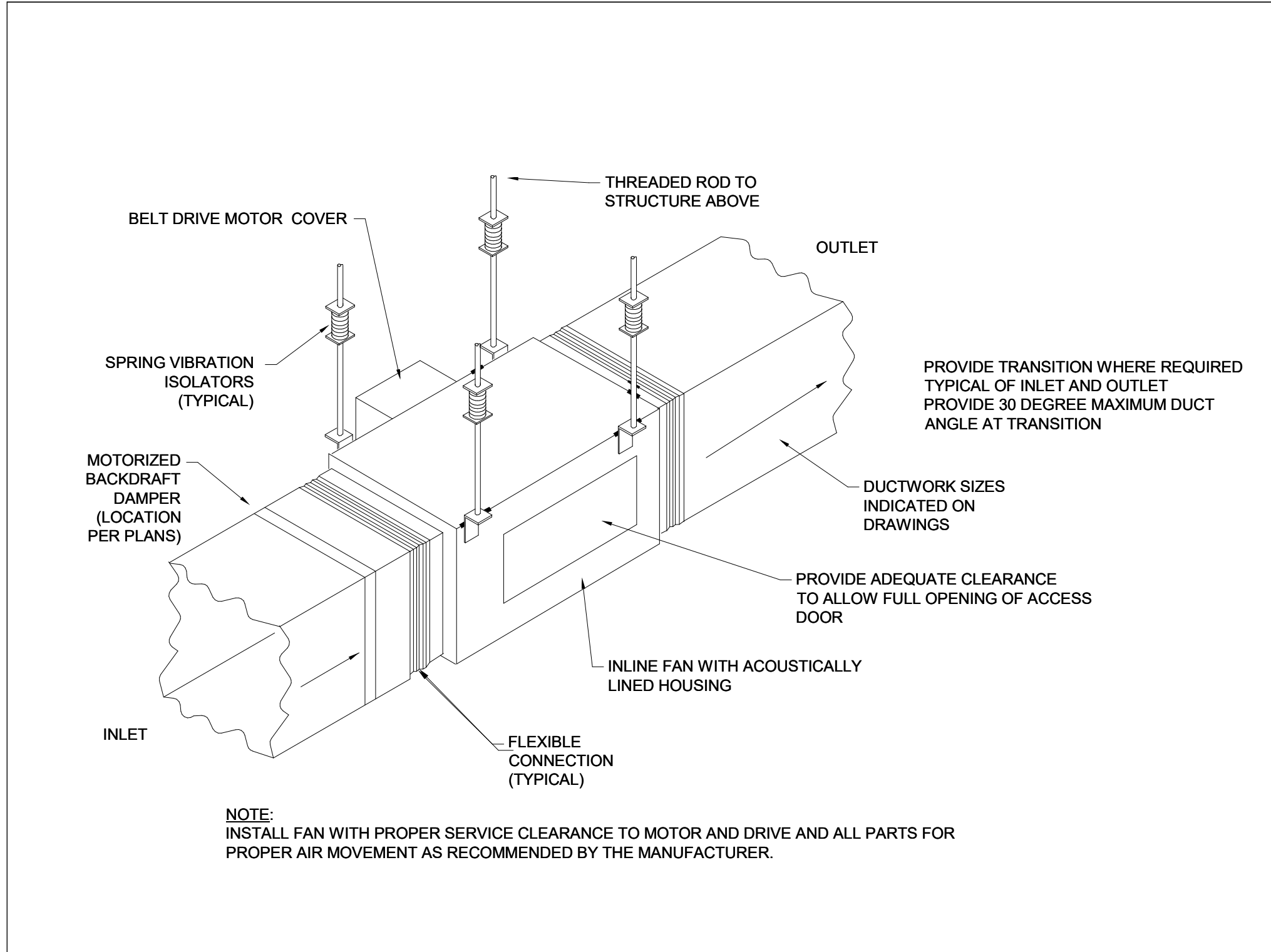
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HARTFORD, CT

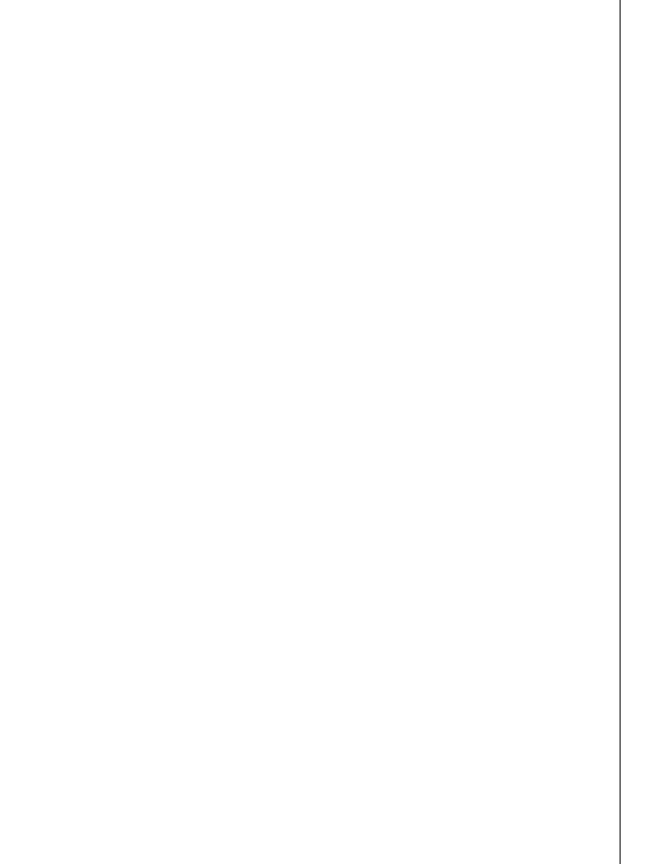
DWG. TITLE
LEVEL 107 - MECHANICAL
CONSTRUCTION PHASE 2

SCALE	1/16" = 1'-0"	DWG. NO.	
PROJ. NO.	1605	DWG. NO.	M-206.PH2





me engineers
29 W 38th STREET, 5th FLOOR
NEW YORK, NY 10018
(212) 447-6770



NOT FOR CONSTRUCTION

NO.	DESCRIPTION	DATE
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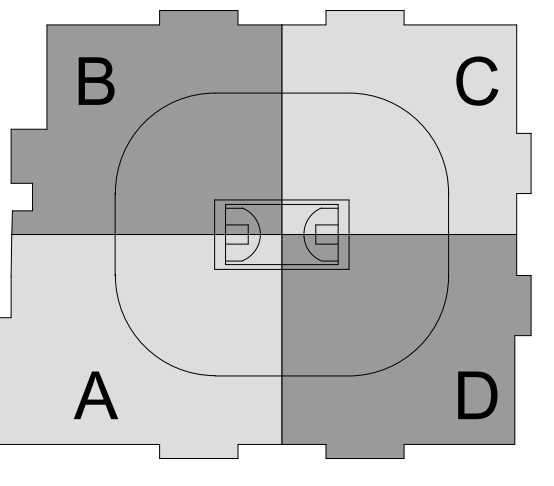
REVISIONS/ ISSUES

CONTRACTOR SHALL CHECK AND VERIFY ALL DIMENSIONS AND REPORT ANY DISCREPANCIES OR DISCREPANCIES TO THE ARCHITECT BEFORE PROCEEDING WITH THE WORK. DO NOT SCALE THE DRAWINGS.

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DATE: 12/1/20
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HARTFORD, CT

DWG. TITLE: **MECHANICAL DETAILS I - PHASE 2**
SCALE: 1/8" = 1'-0"
PROJ. NO: 1605
DWG. NO: **M-700.PH2**



CAPITAL REGION DEVELOPMENT AUTHORITY

SC I ARCHITECTS

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(646) 658-7410

me
engineers
29 W 38th STREET, 5th FLOOR
NEW YORK, NY 10018
(212) 447-6770

NOT FOR CONSTRUCTION

1	REVISED FOR TPA 50	12/1/99
2		
NO.	DESCRIPTION	DATE

REVISIONS/ ISSUES

CONTRACTOR SHALL CHECK AND VERIFY ALL DIMENSIONS AND REPORT ANY DISCREPANCIES OR DISCREPANCIES TO THE ARCHITECT BEFORE PROCEEDING WITH THE WORK. DO NOT SCALE THE DRAWINGS.

SCALE

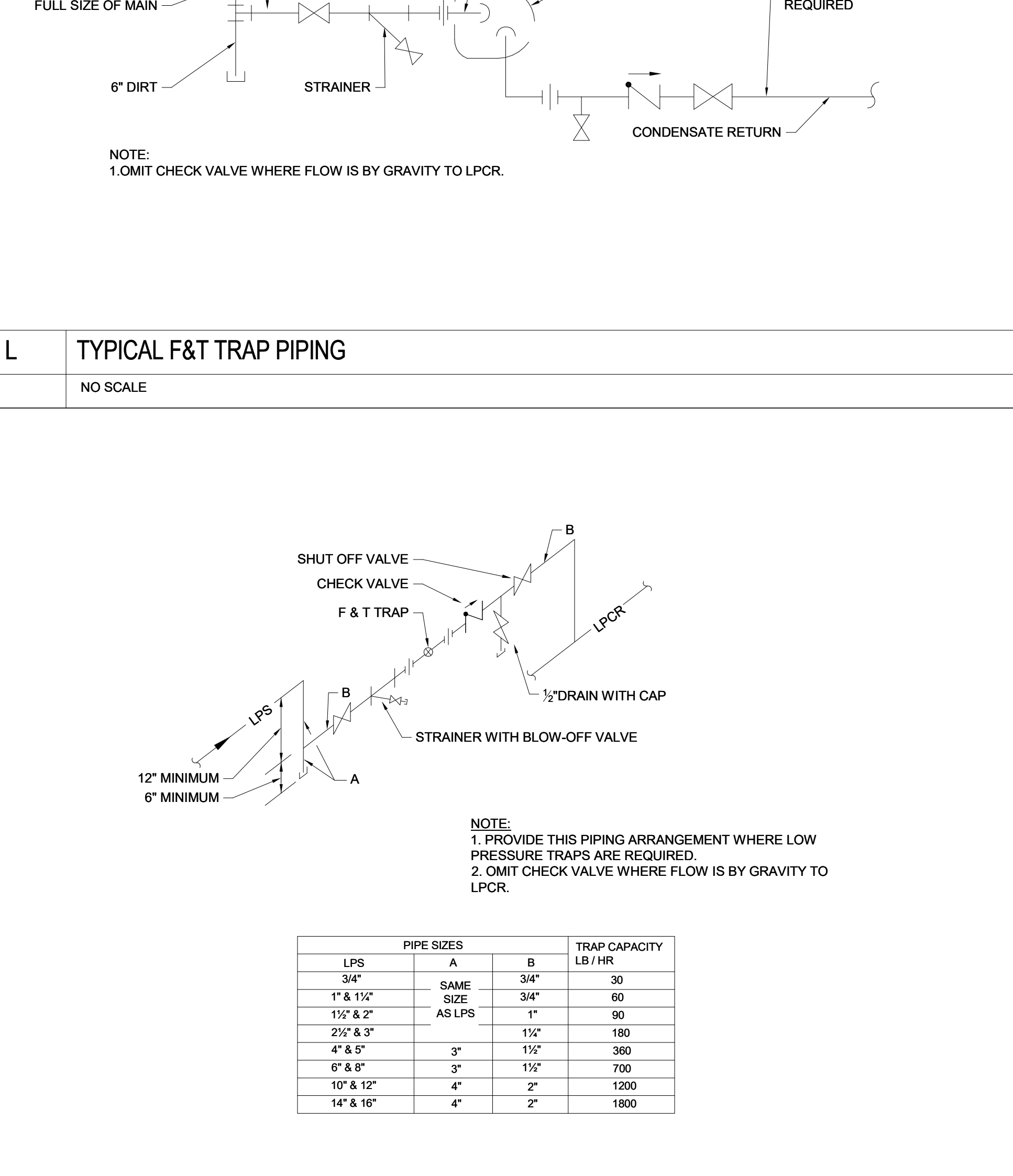
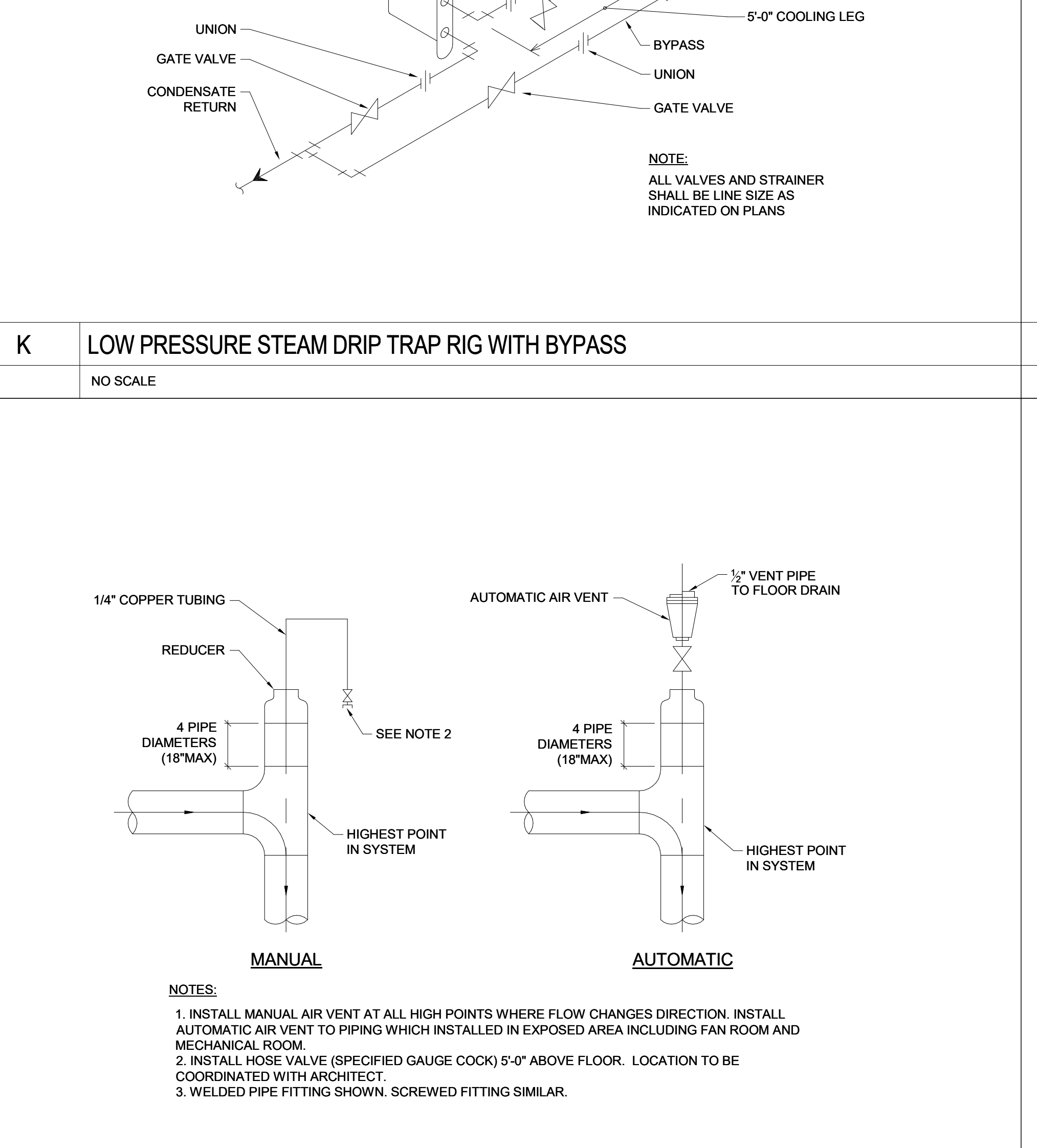
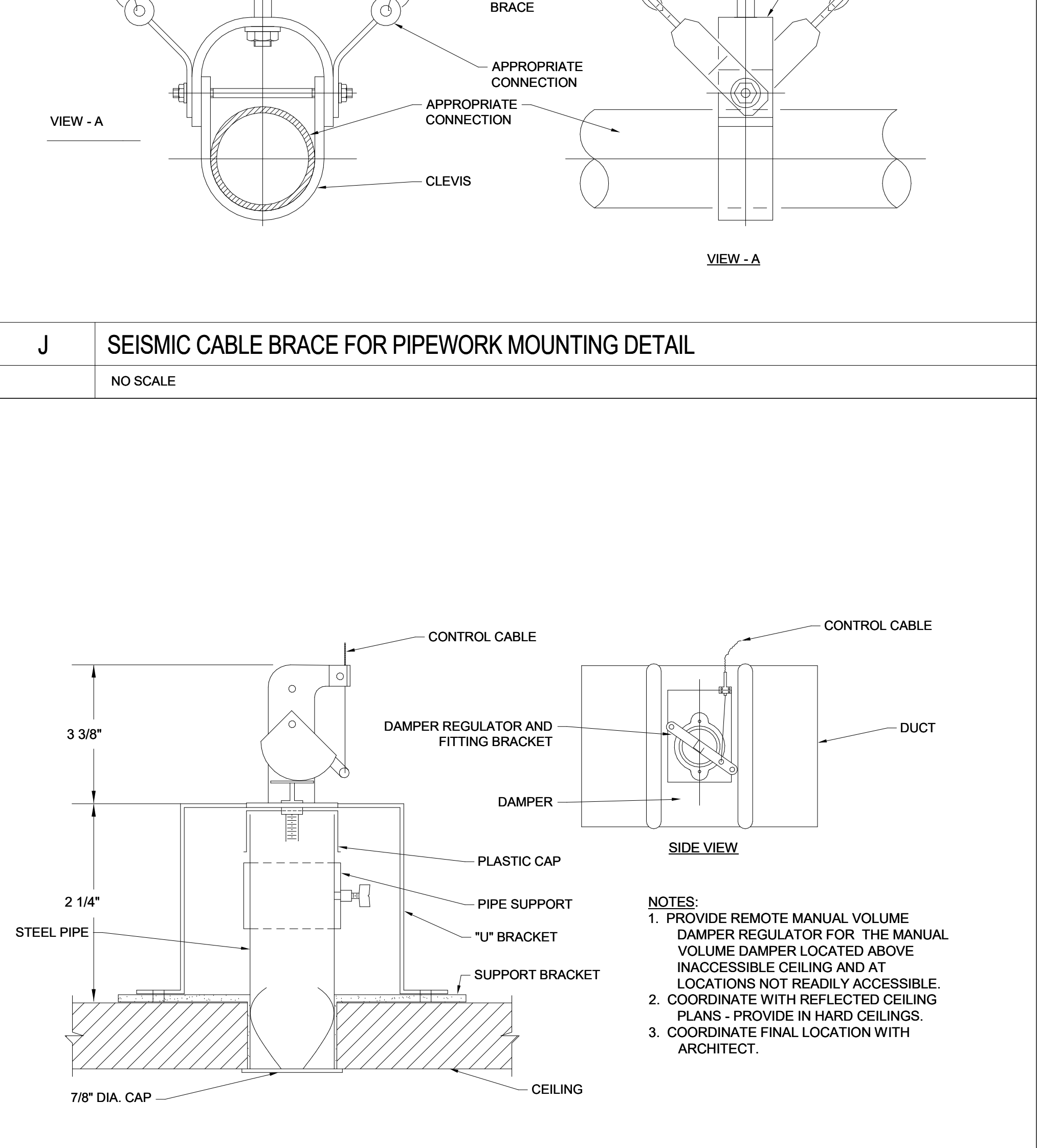
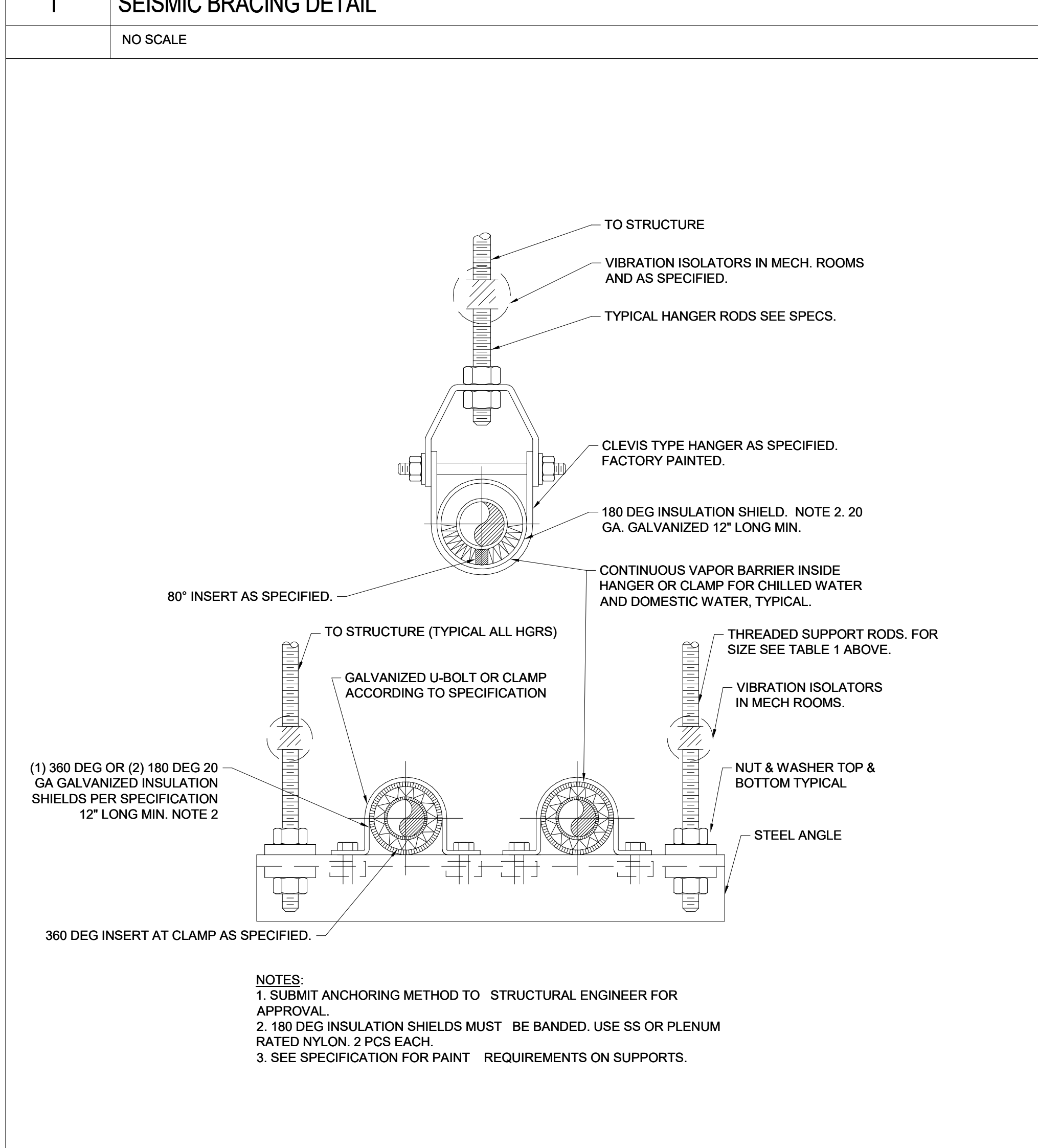
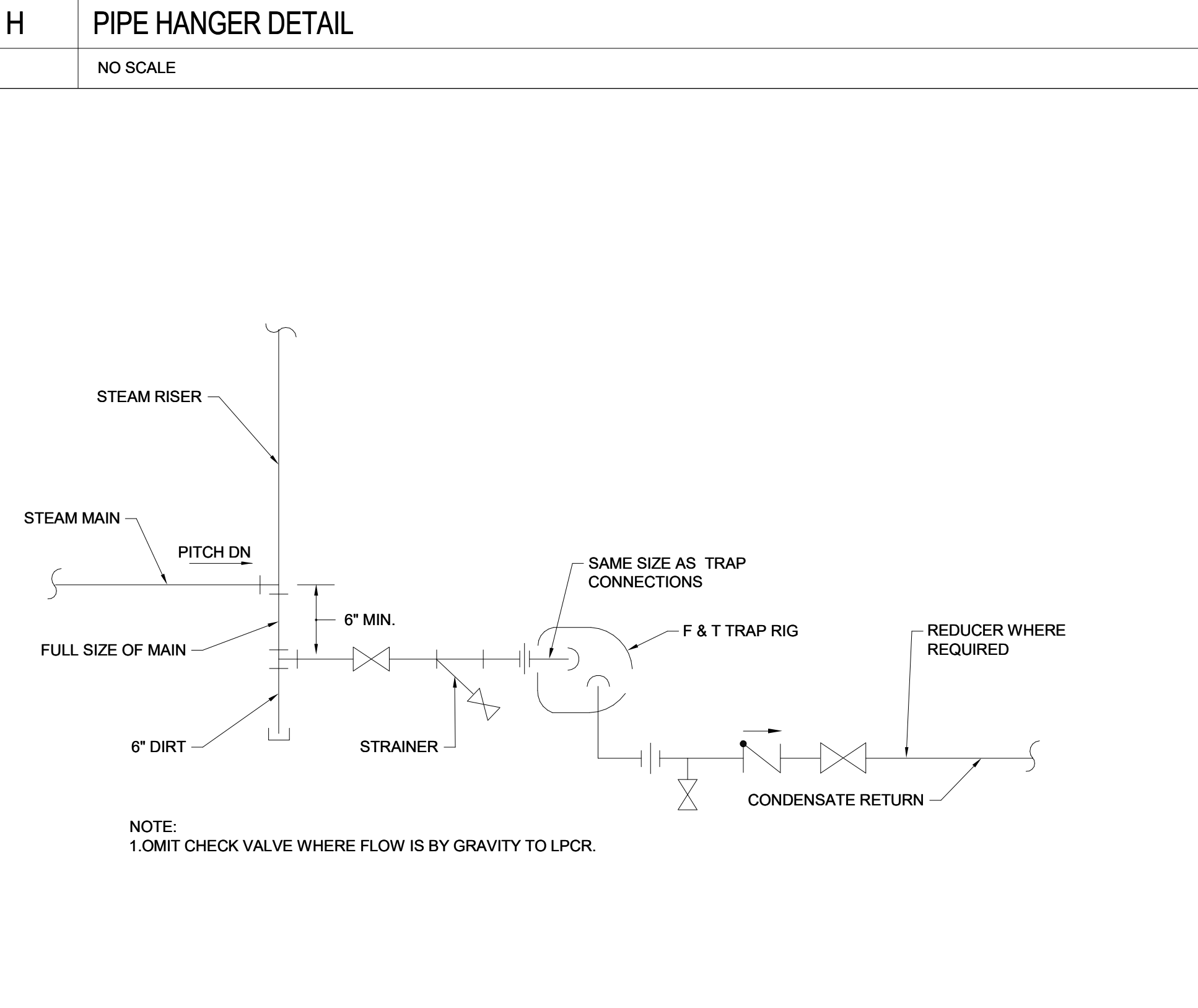
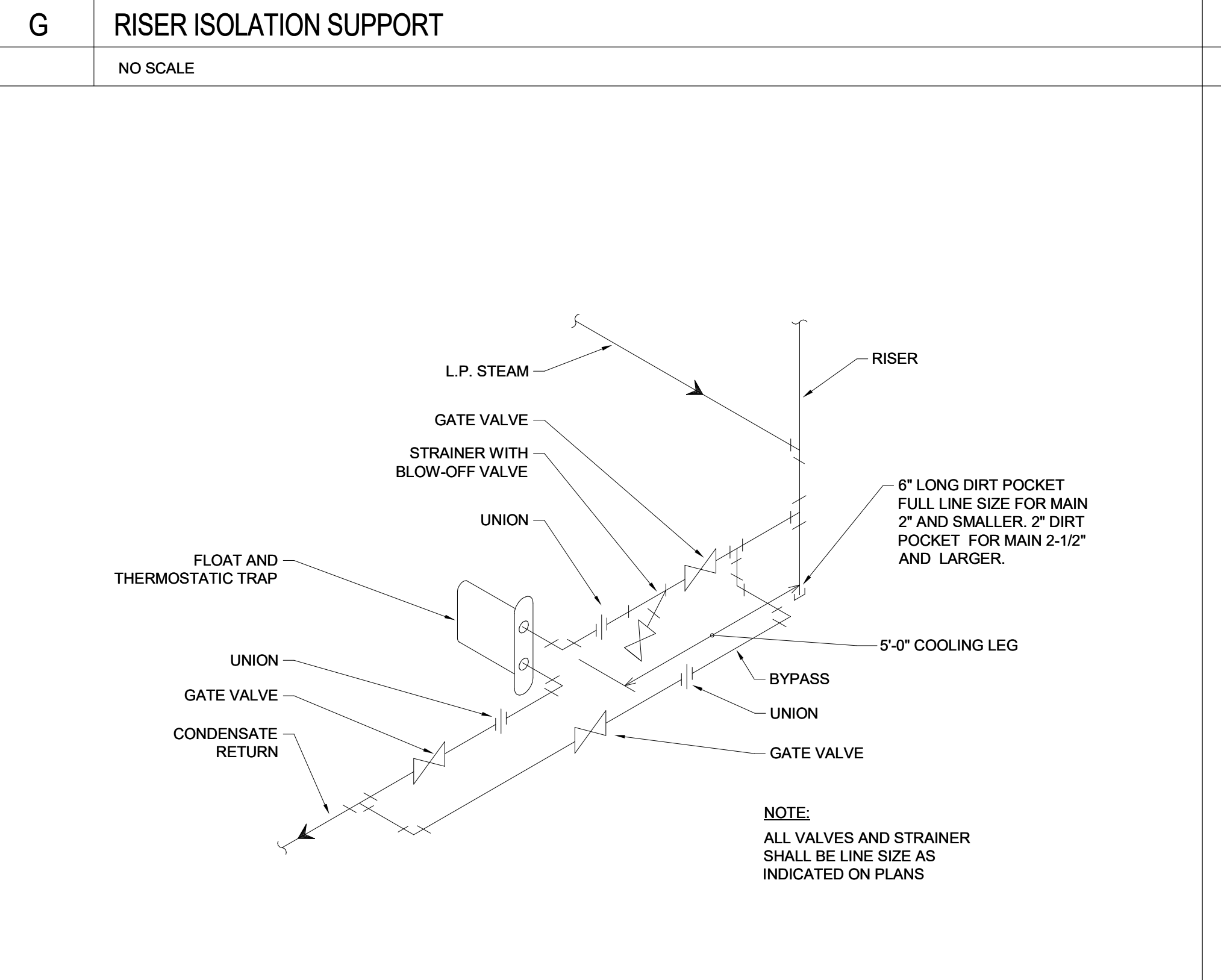
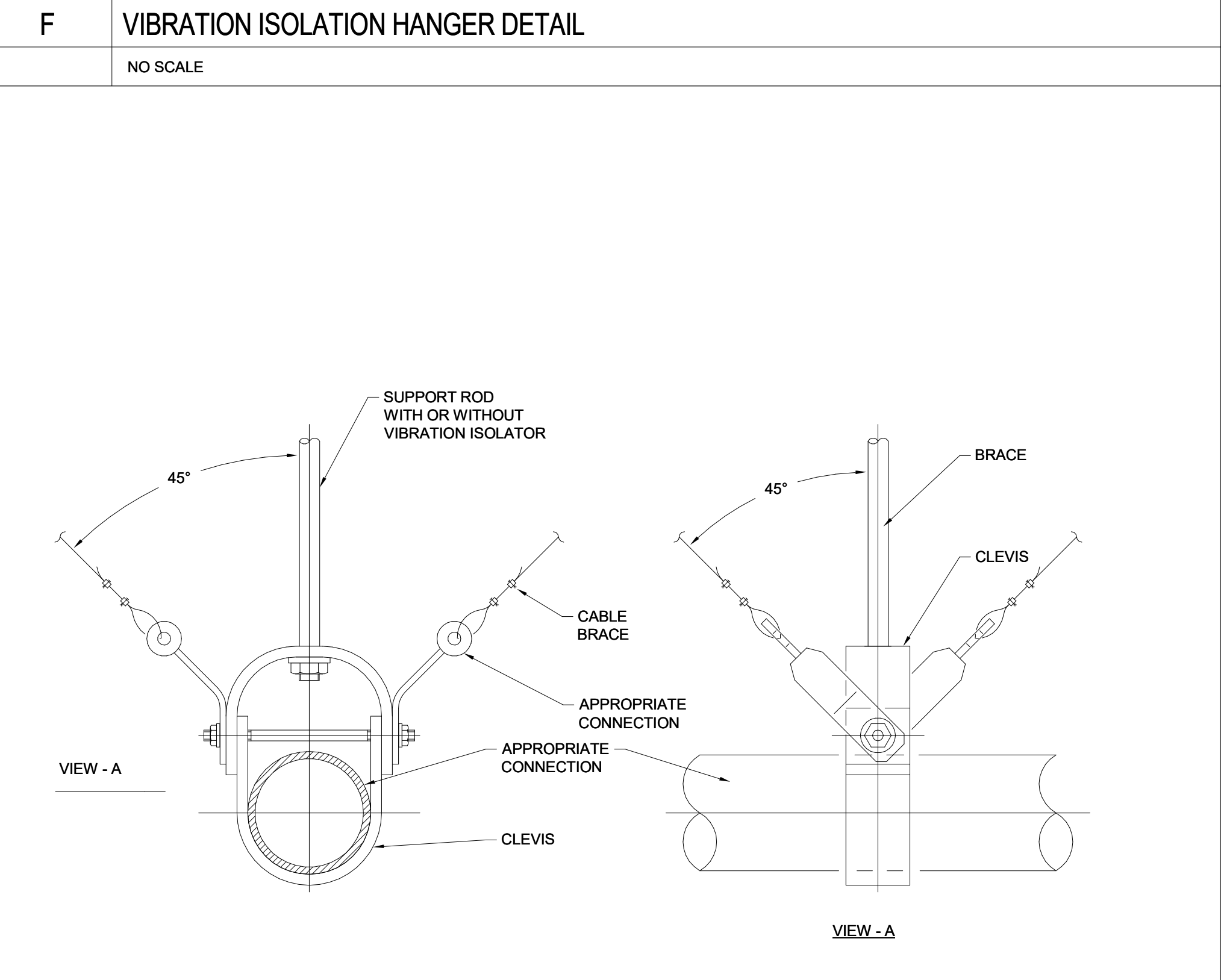
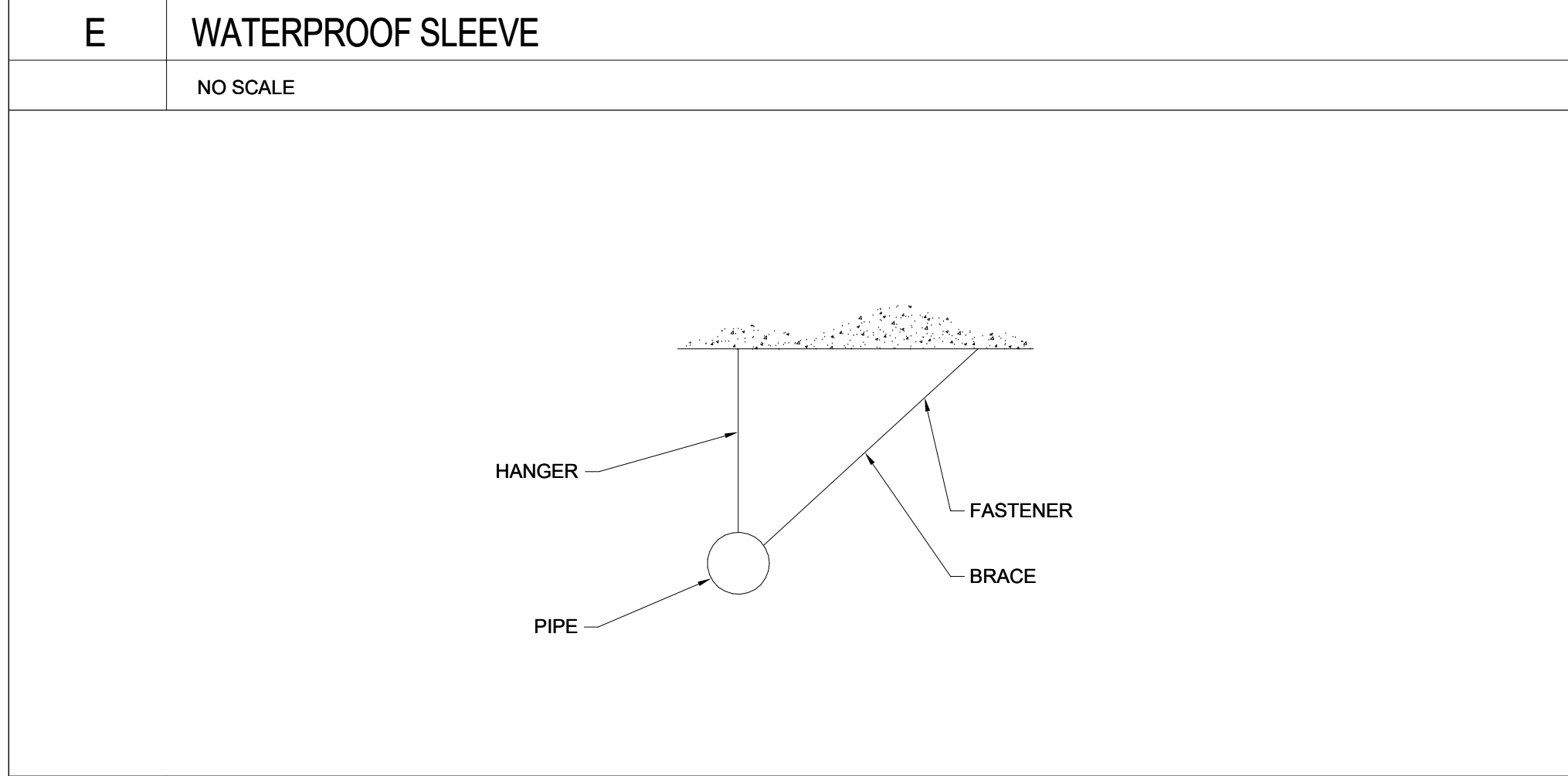
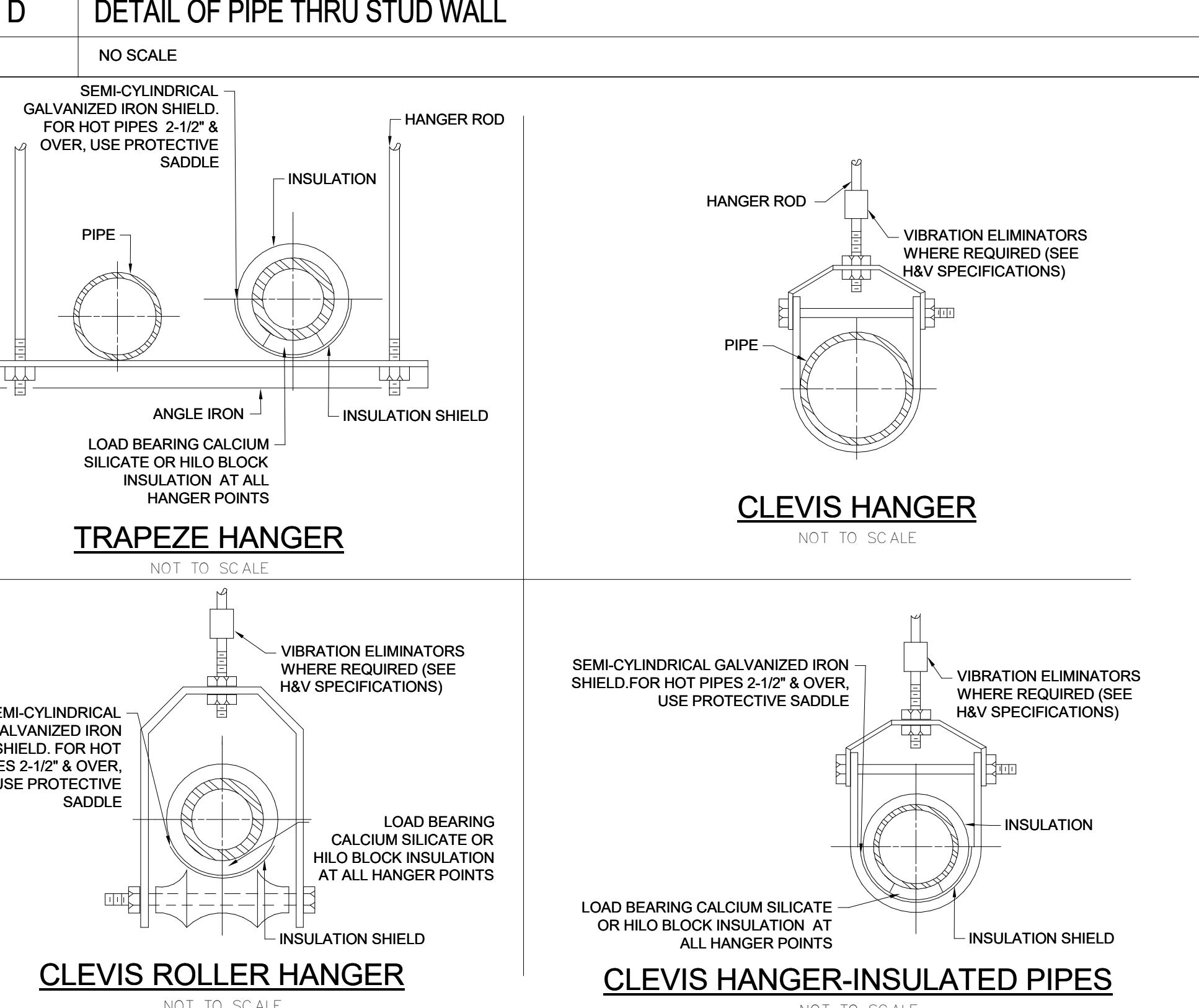
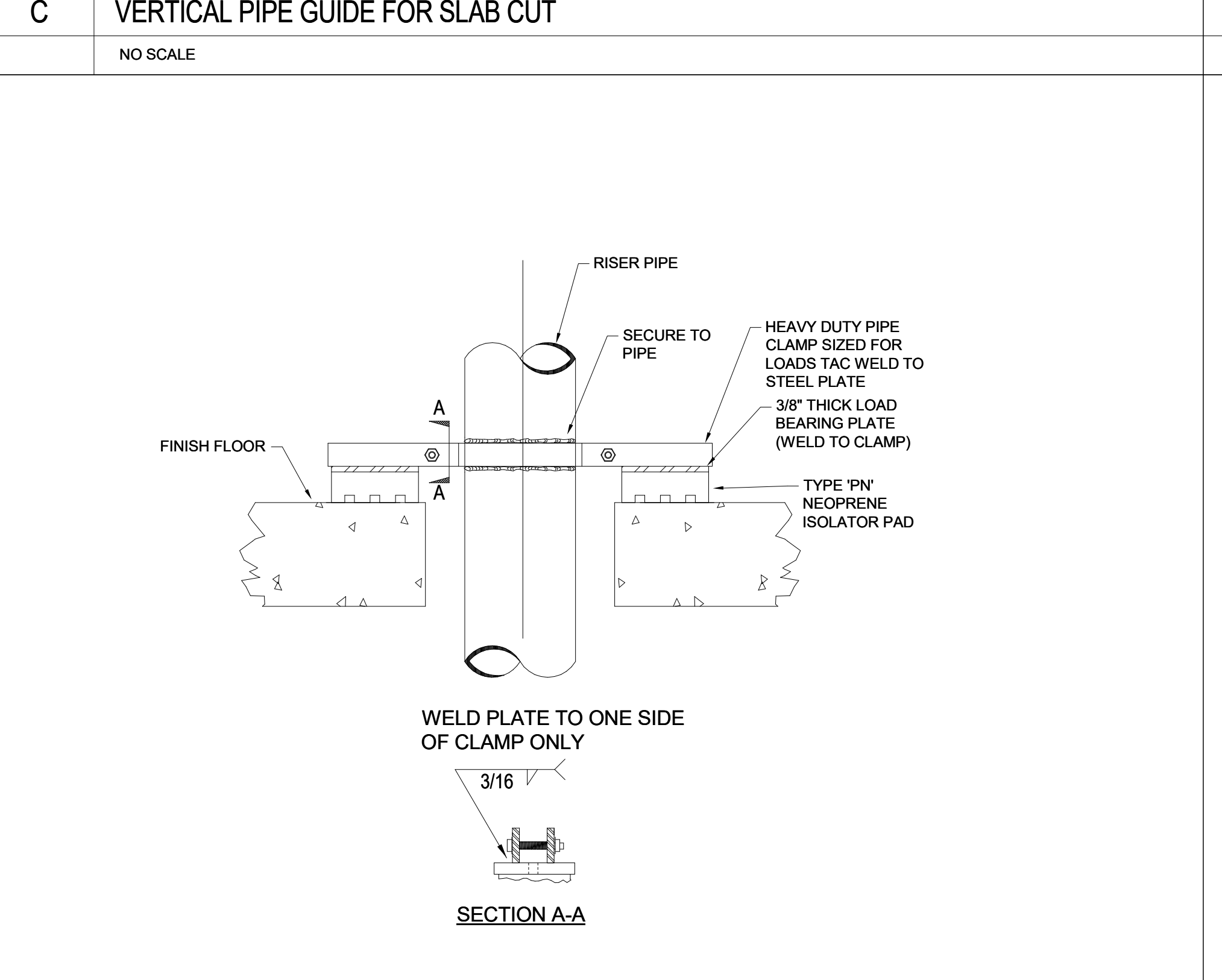
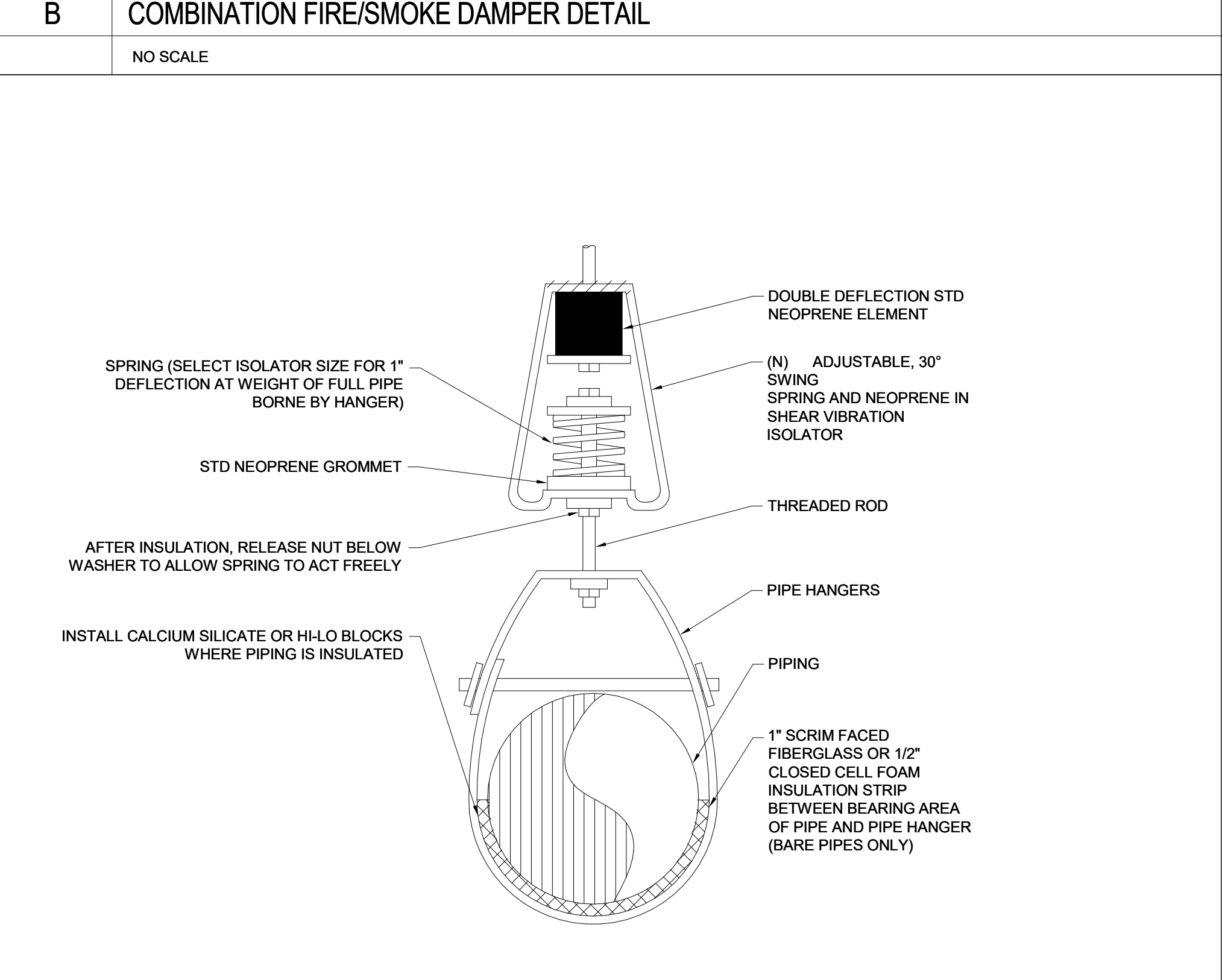
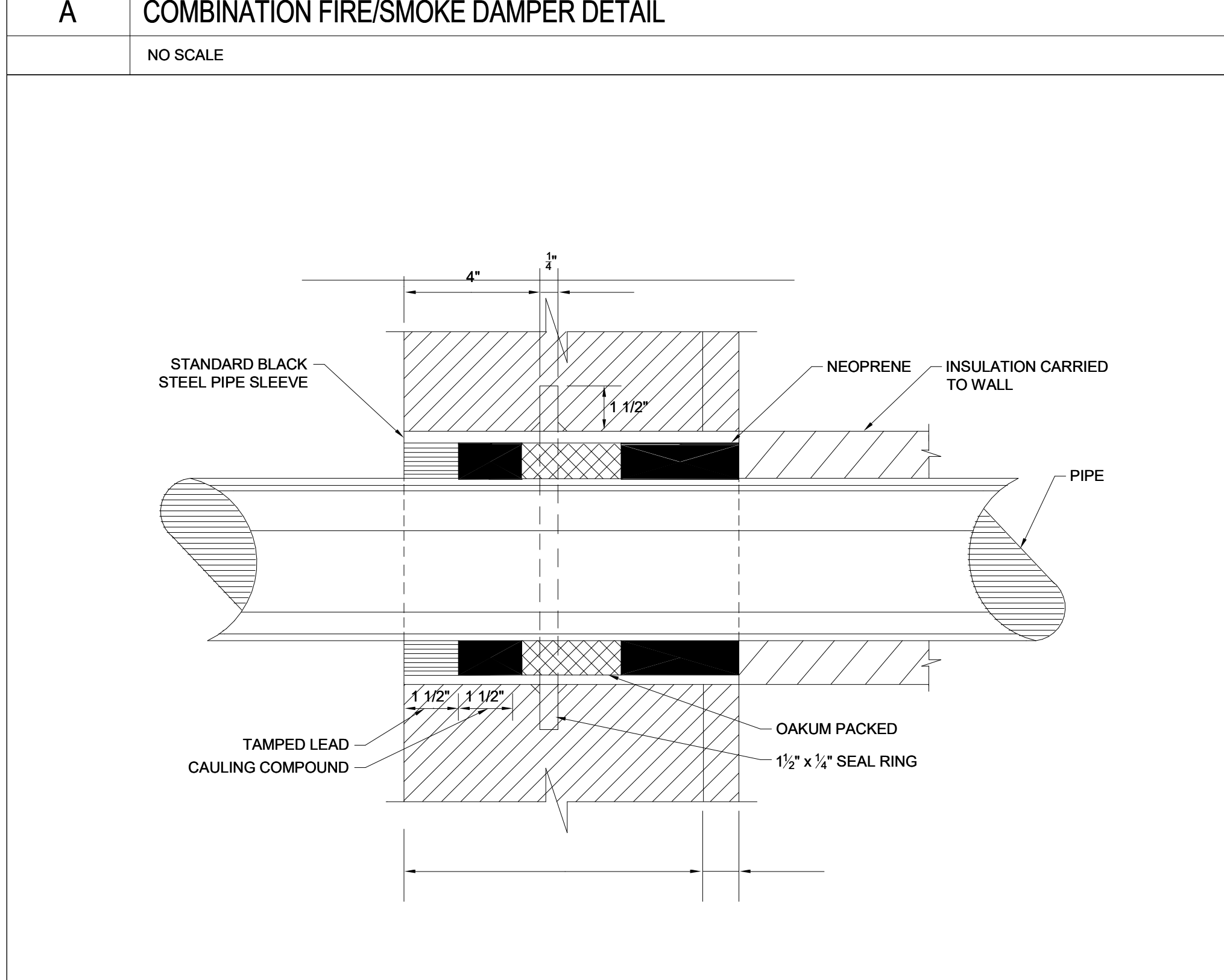
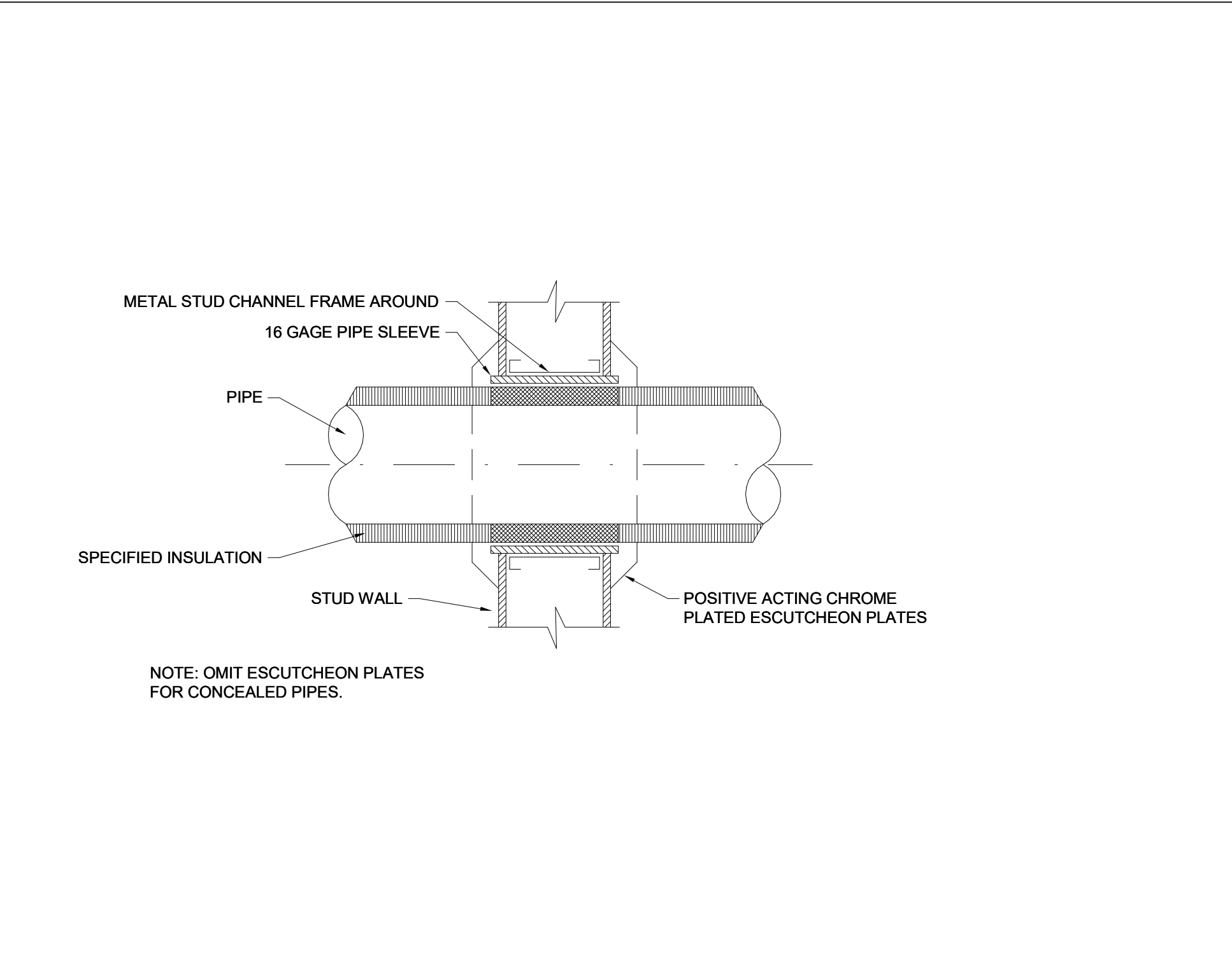
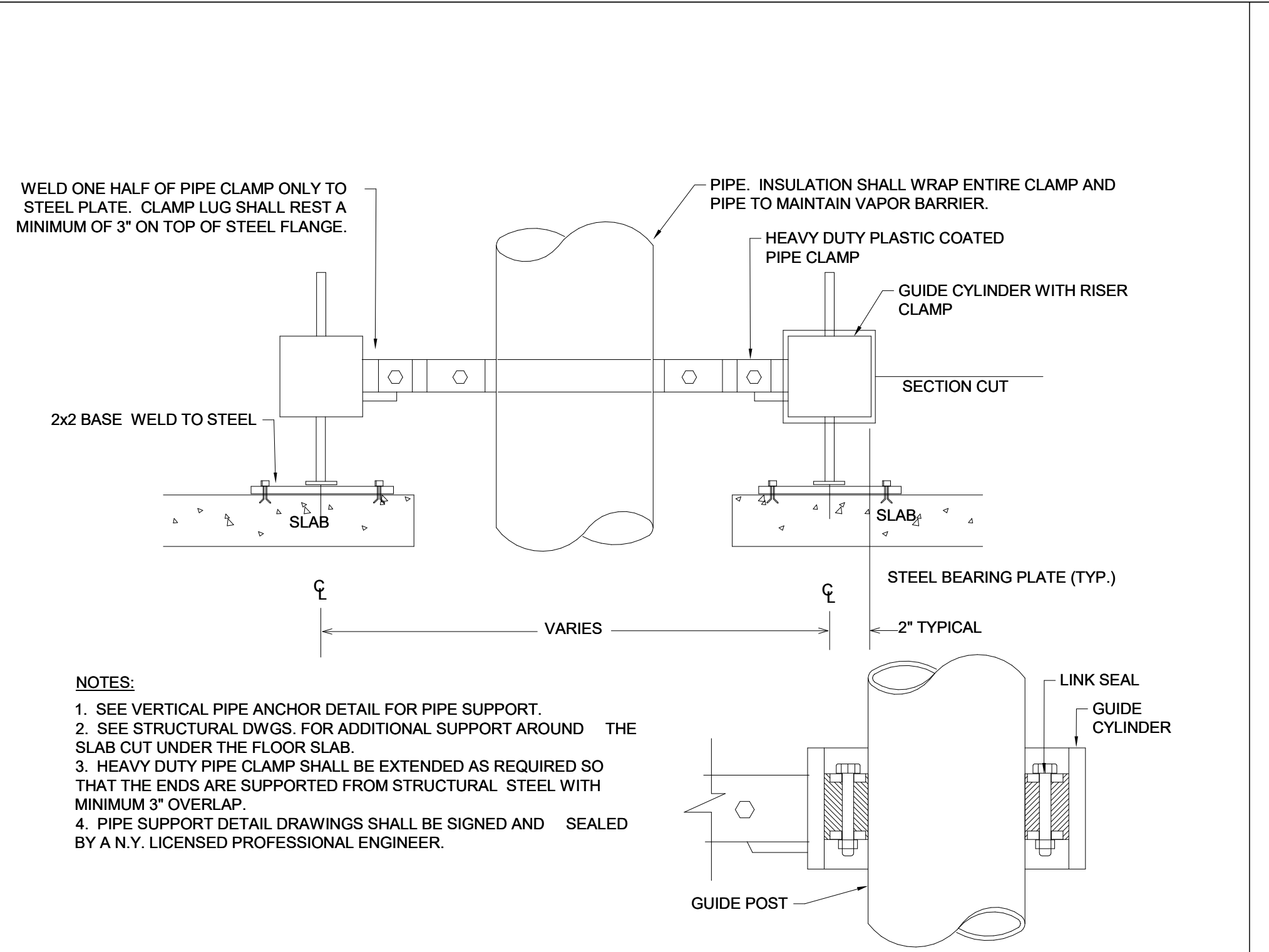
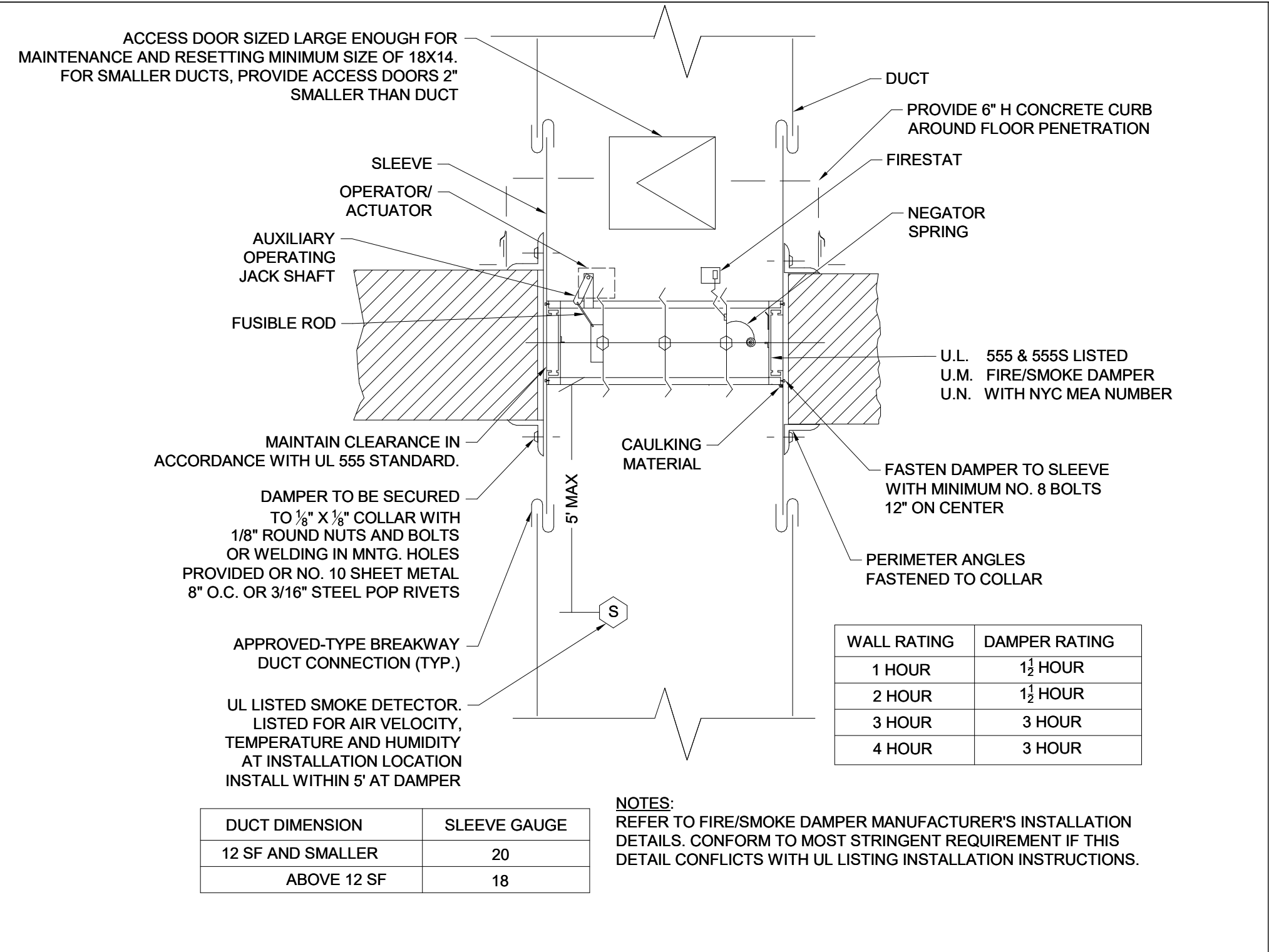
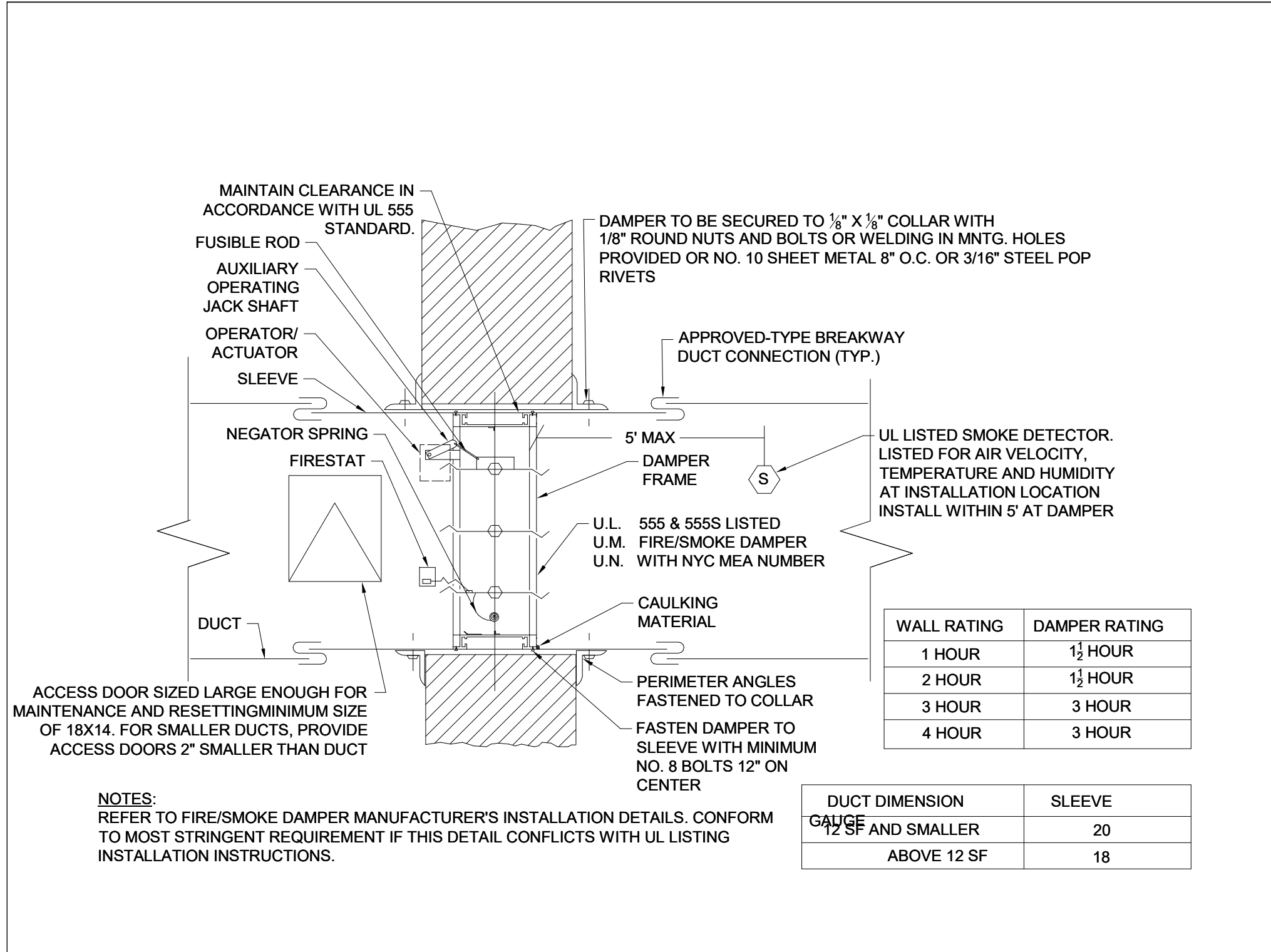
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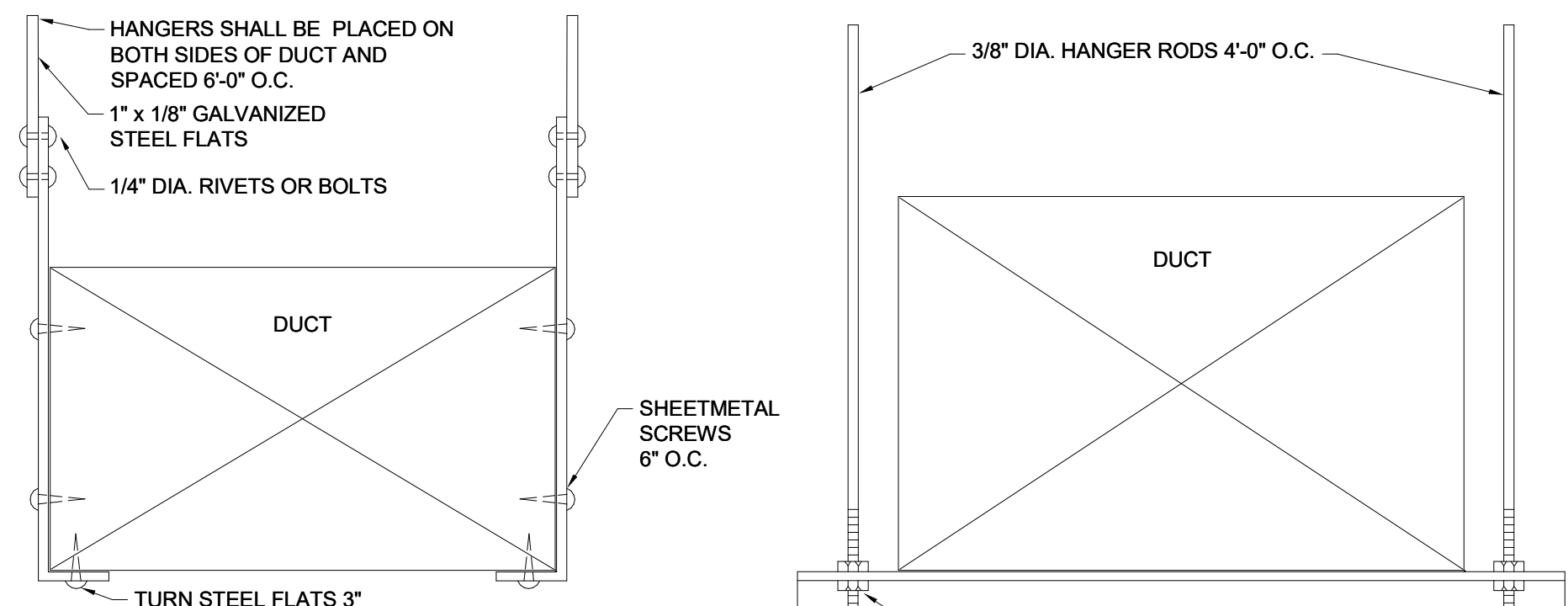
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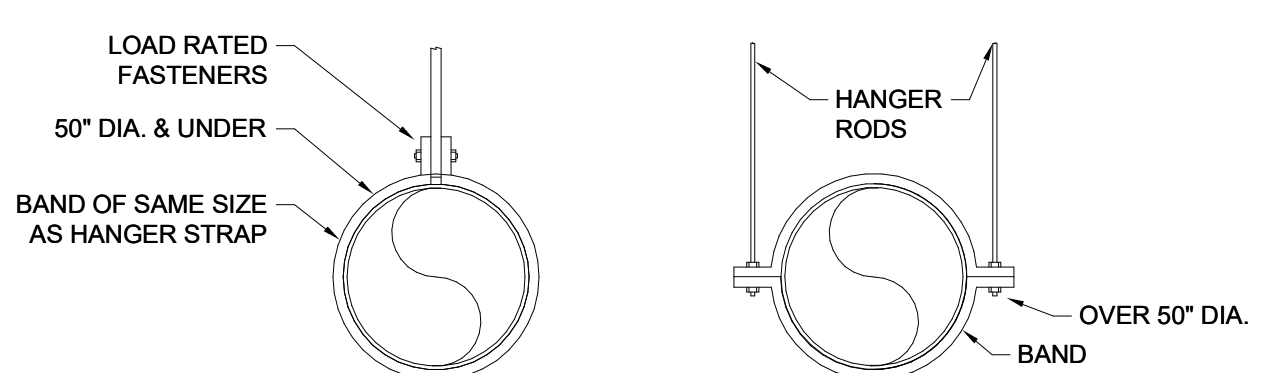
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MECHANICAL DETAILS II - PHASE 2

SCALE
1/8" = 1'-0"
PROJ. NO.
1605
M-701.PH2

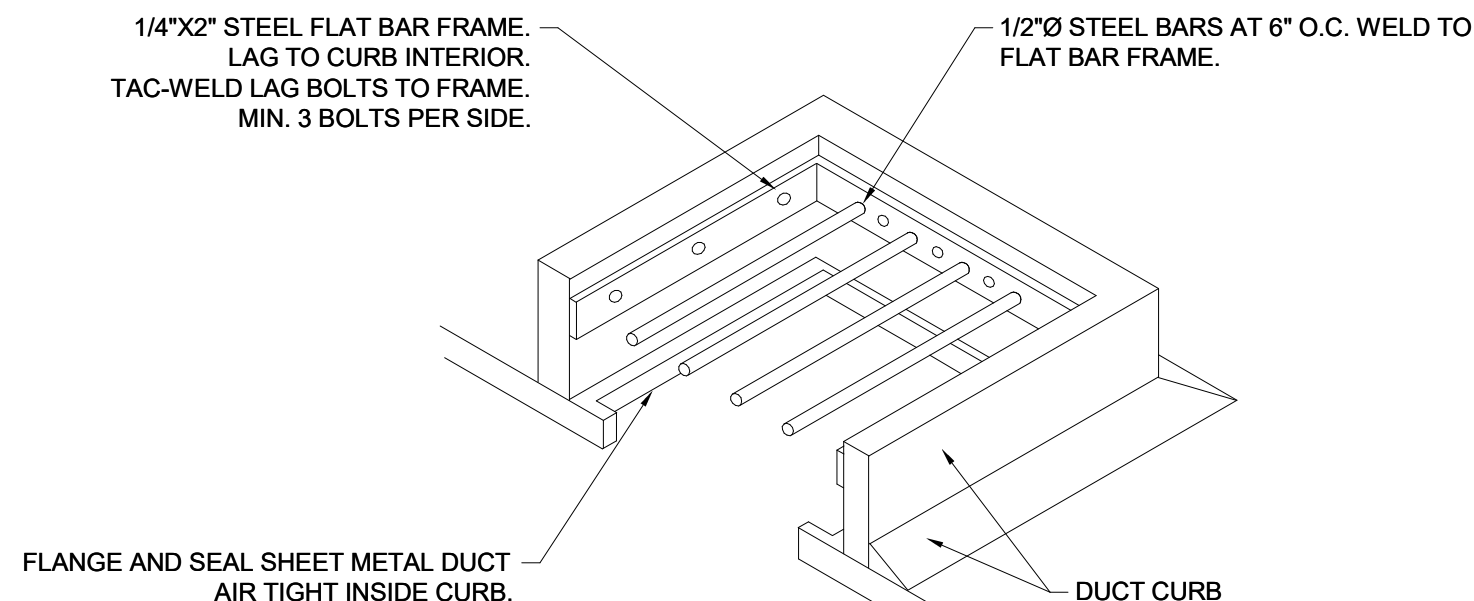




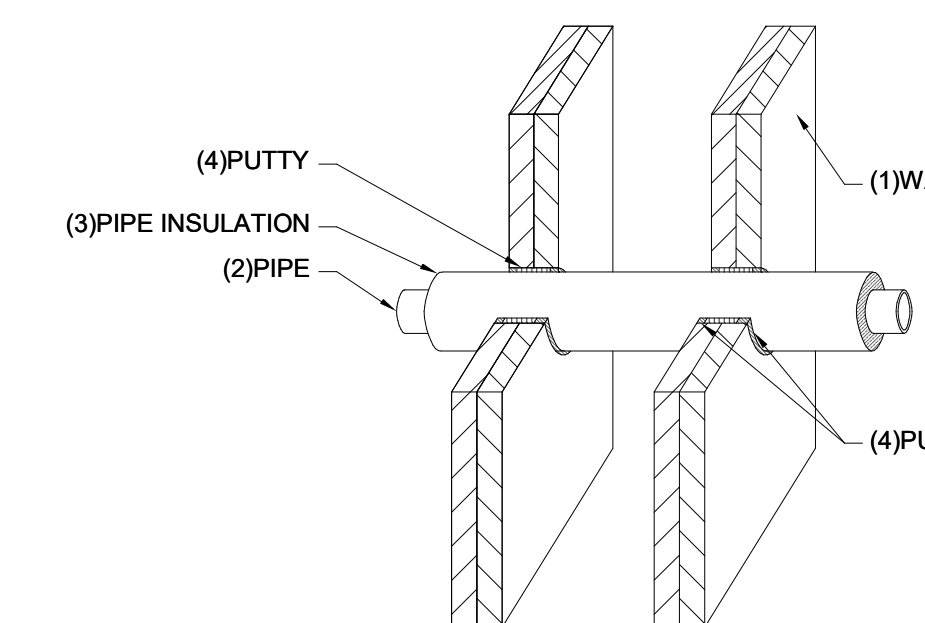
UP TO 8 SQ. FT. IN AREA AND 47\"/>



MAX DUCT DIA. (IN.)	QUANTITY/SIZE (IN.)	MAX LOAD (LBS.)	MAX SPACING (FT.)
26	ONE 1 X 22 GA STRAP	260	12
36	ONE 1 X 18 GA STRAP	420	12
50	ONE 1 X 16 GA STRAP	700	12
60	TWO 1/2 DIA RODS	1,320	12
84	TWO 1/2 DIA RODS	2,500	12



NOTE: TO BE INSTALLED ON ALL DUCT CURBS AT MONEY ROOM THAT ARE 8\"/>



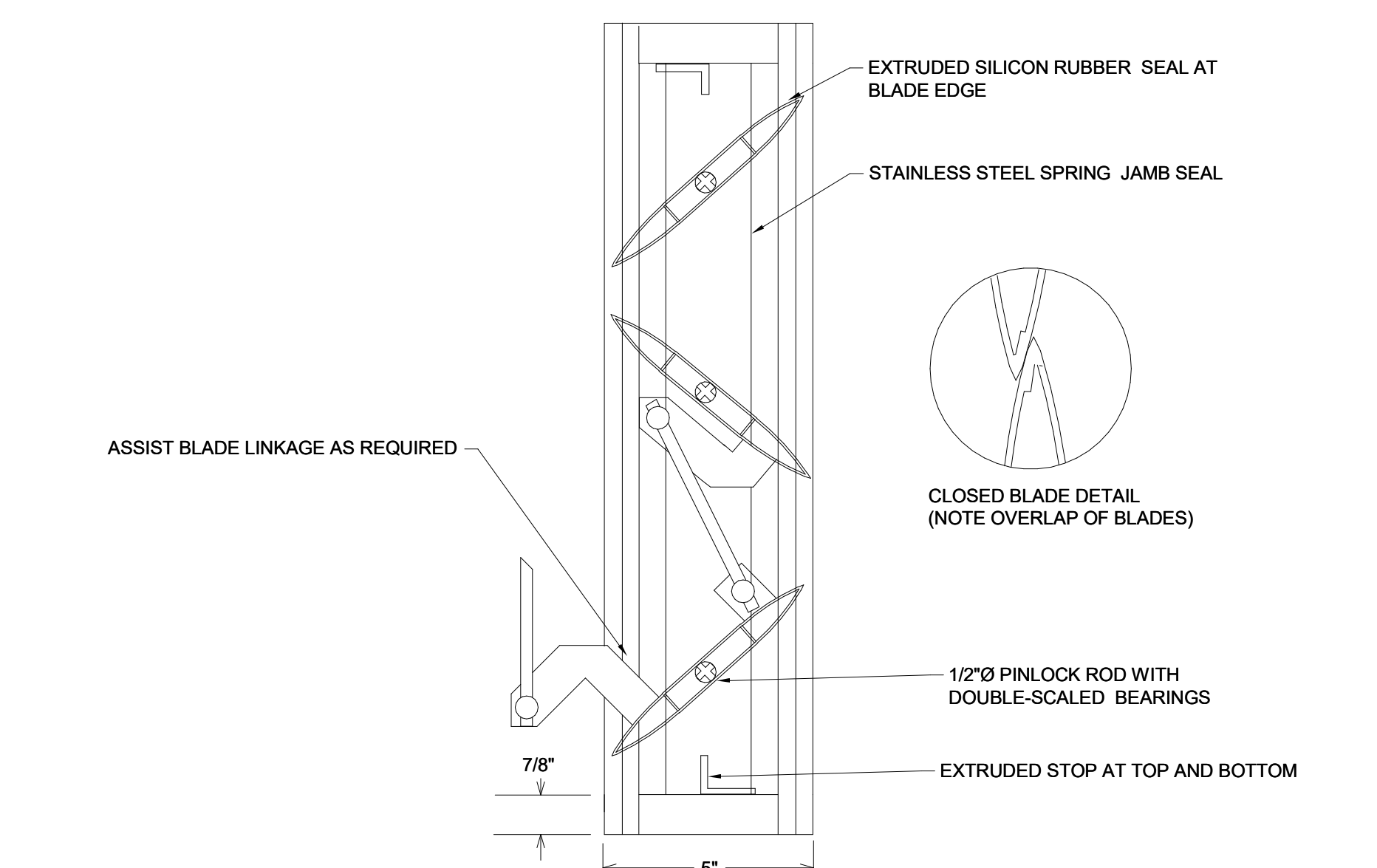
- WALL ASSEMBLY - CONSTRUCTED IN THE MANNER SPECIFIED IN THE U300 OR L400 SERIES DESIGNS AS SHOWN IN THE UL FIRE RESISTANCE DIRECTORY. MAX DIAMETER OF OPENING IS 10\"/>
- METALLIC PIPE - THE FOLLOWING TYPES AND SIZES OF METALLIC PIPES MAY BE USED:
 - STEEL PIPE - NOM. 6\"/>
 - IRON PIPE - NOM. 6\"/>
 - COPPER TUBING OR PIPE - NOM. 4\"/>
 - HEAVIER COPPER TUBING OR REGULAR (OR HEAVIER) COPPER PIPE FOR STEEL OR CAST IRON PIPE THE T RATING IS 2 HOURS, FOR COPPER TUBING OR PIPE THE T RATING IS 0
- PIPE INSULATION - NOMINAL 1\"/>
- NELSON FSP PUTTY (PART AA445) - APPLY FSP TO FILL THE ANNULAR SPACE TO A NOMINAL 1\"/>

A METHOD OF SUPPORTING DUCTS
NO SCALE

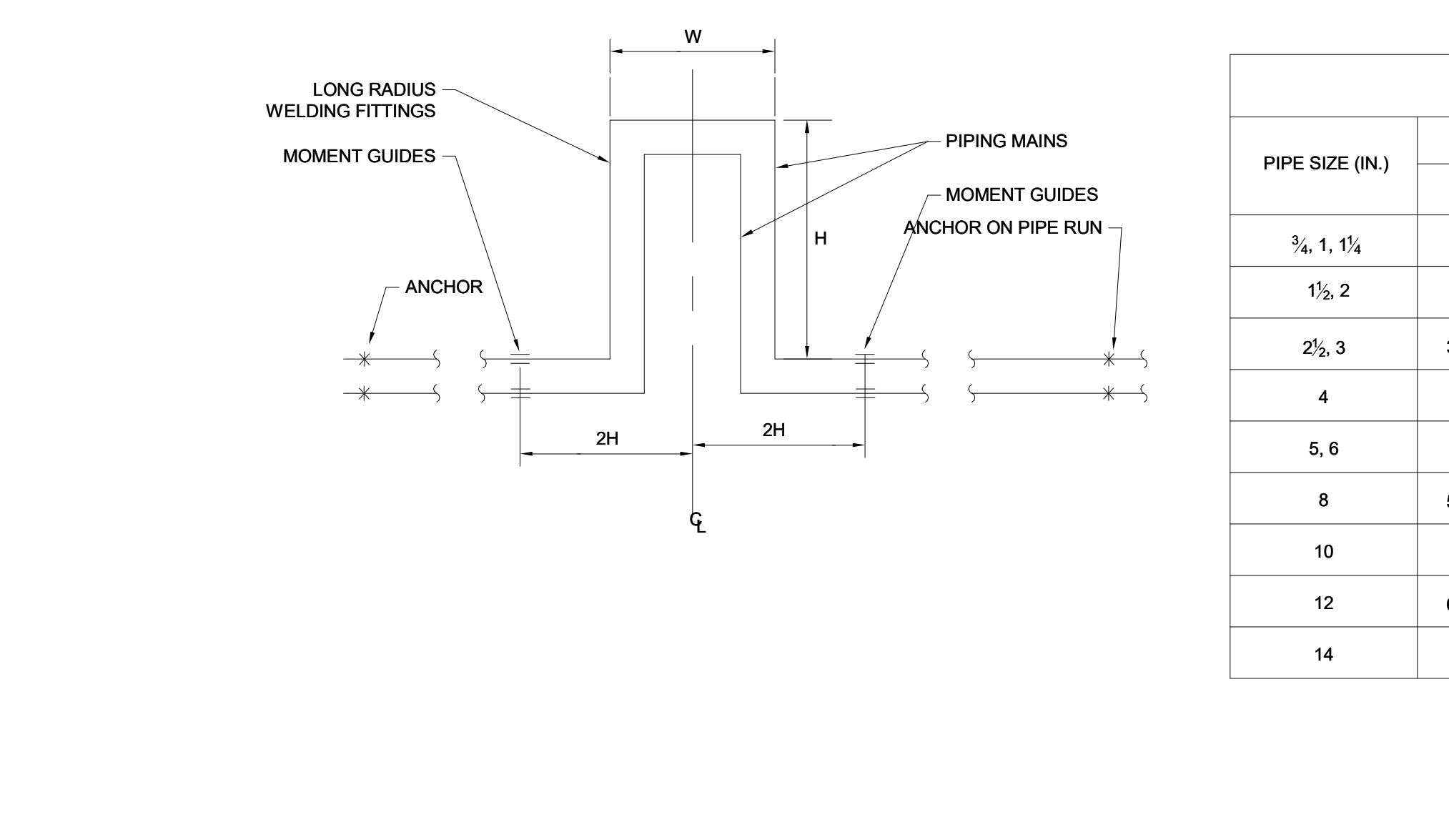
B ROUND DUCT HANGING DETAIL
NO SCALE

C BURGLAR BARS AT MONEY ROOM PENETRATIONS
NO SCALE

D GYPSUM WALL INSULATED METALLIC PIPE FIRE STOPPING DETAIL
NO SCALE



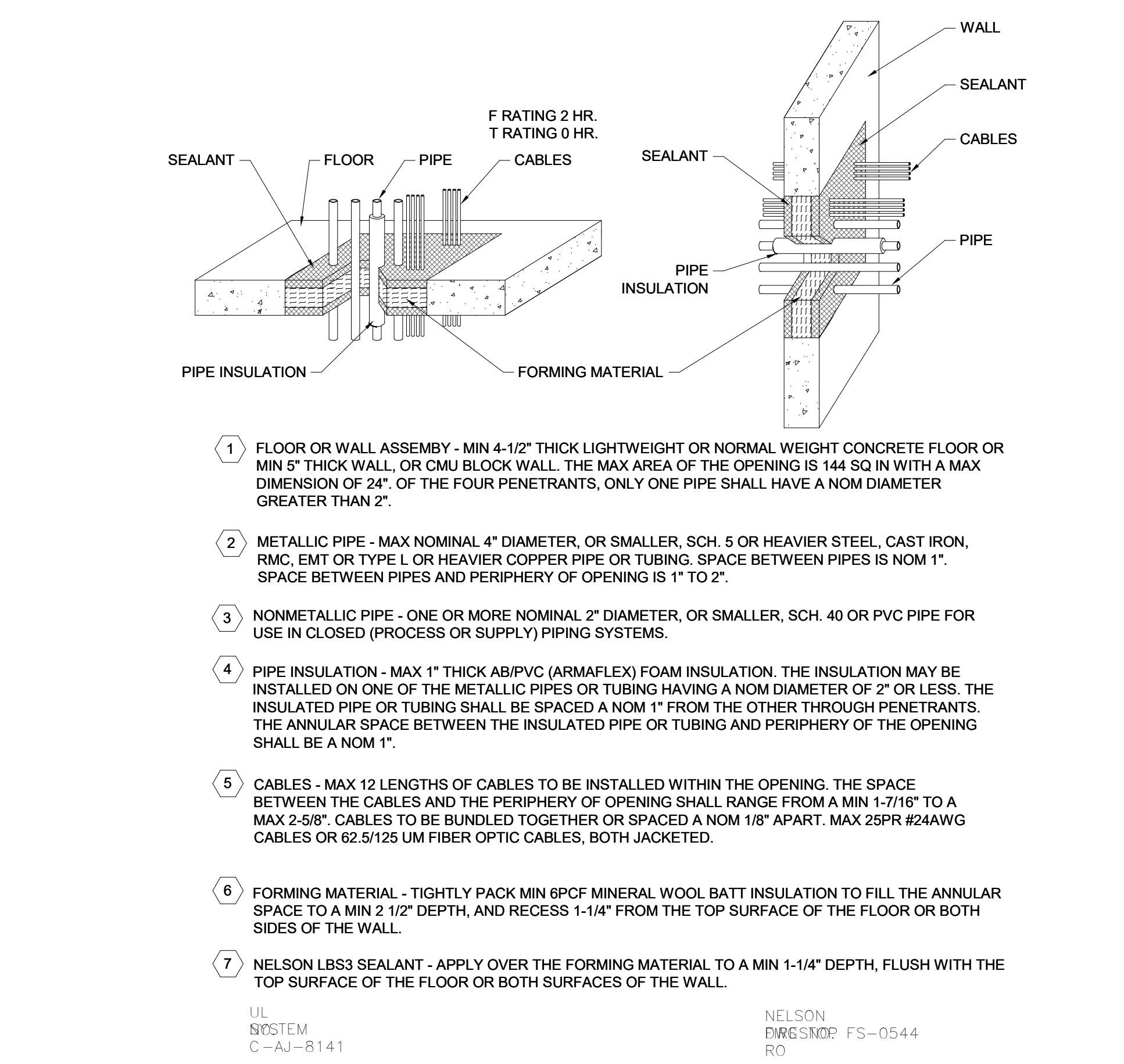
E OPPOSED BLADE DAMPER DETAIL
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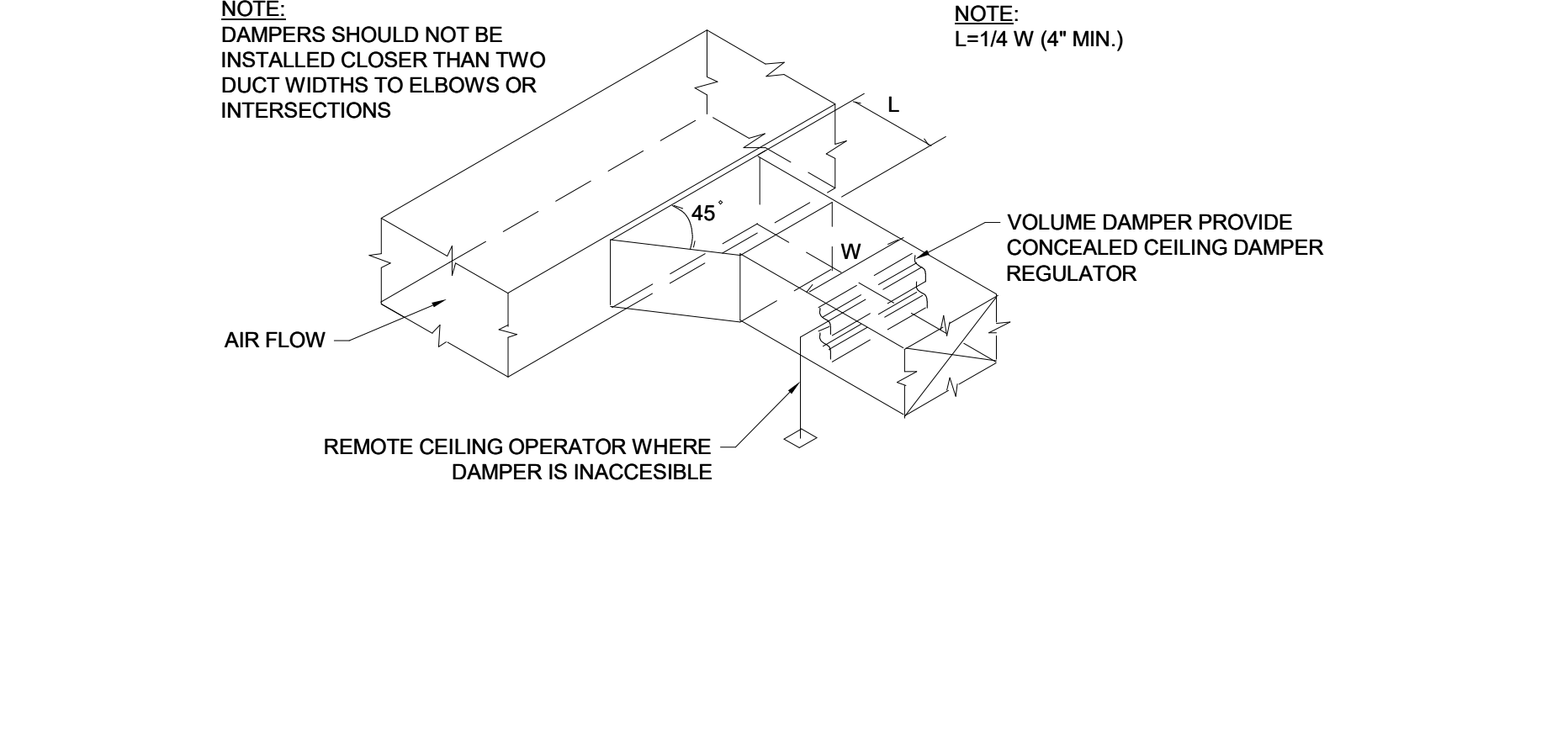
F EXPANSION LOOP DETAIL FOR BUILDING EXPANSION JOINTS
NO SCALE

PIPE SIZE (IN.)	ANCHOR TO ANCHOR EXPANSION, (INCHES)											
	2		4		6		8		10		12	
	W	H	W	H	W	H	W	H	W	H	W	H
3/4, 1, 1 1/4	2	4	3	6	3.5	7	4	8	4.5	9	5	10
1 1/2, 2	3	6	4	8	5	10	5.5	11	6	12	7	14
2 1/2, 3	3.5	7	5	10	6	12	6.5	13	7.5	15	8	16
4	4	8	5.5	11	6.5	13	7.5	15	8.5	17	9	18
5, 6	5	10	6.5	13	8	16	9	18	10	20	11	22
8	5.5	11	7.5	15	9	18	10.5	21	12	24	13	26
10	6	12	8.5	17	10	20	11.5	23	13	26	14	28
12	6.5	13	9	18	11	22	12.5	25	14	28	15.5	31
14	7	14	9.5	19	11.5	23	13	26	15	30	16	32

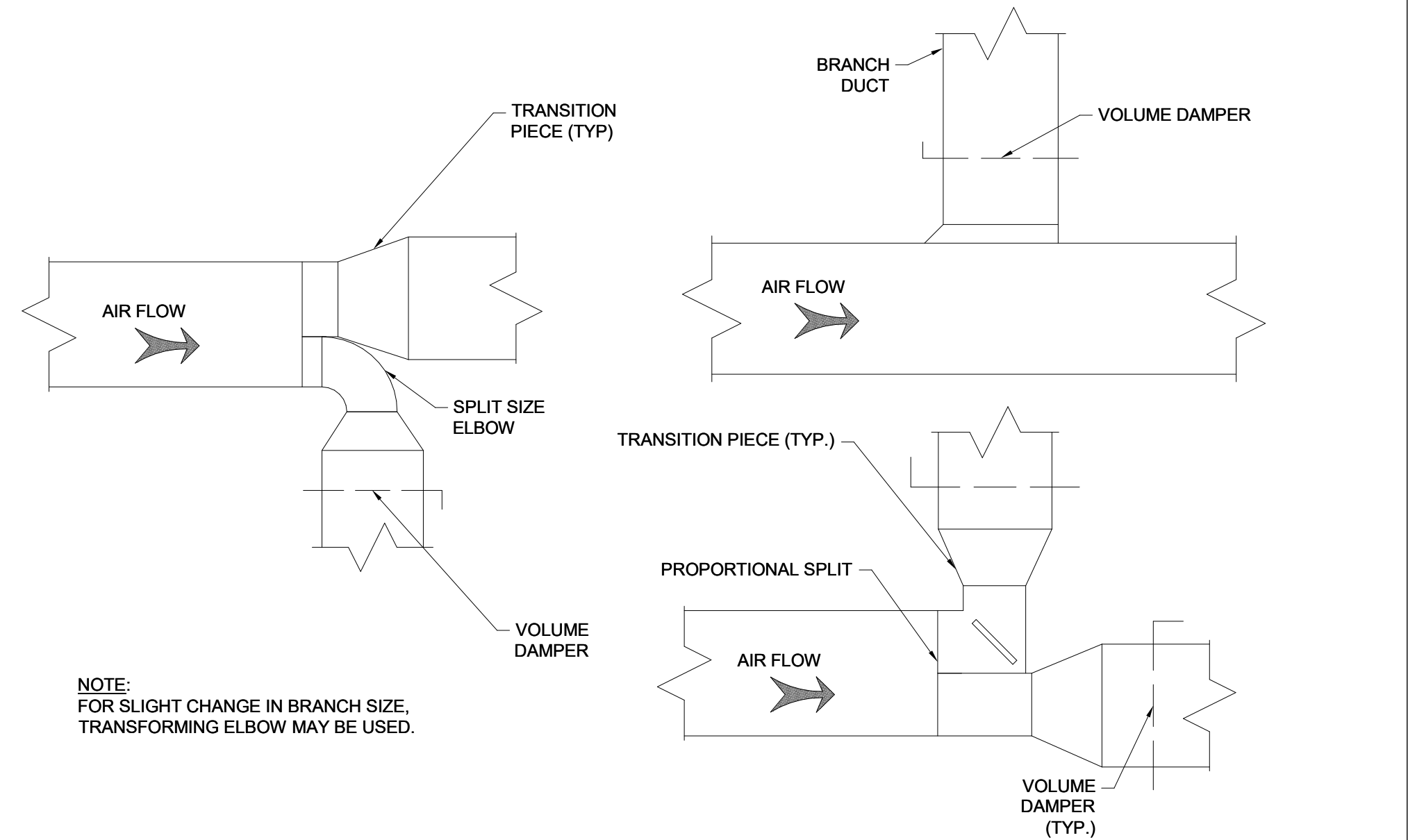
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NO SCALE



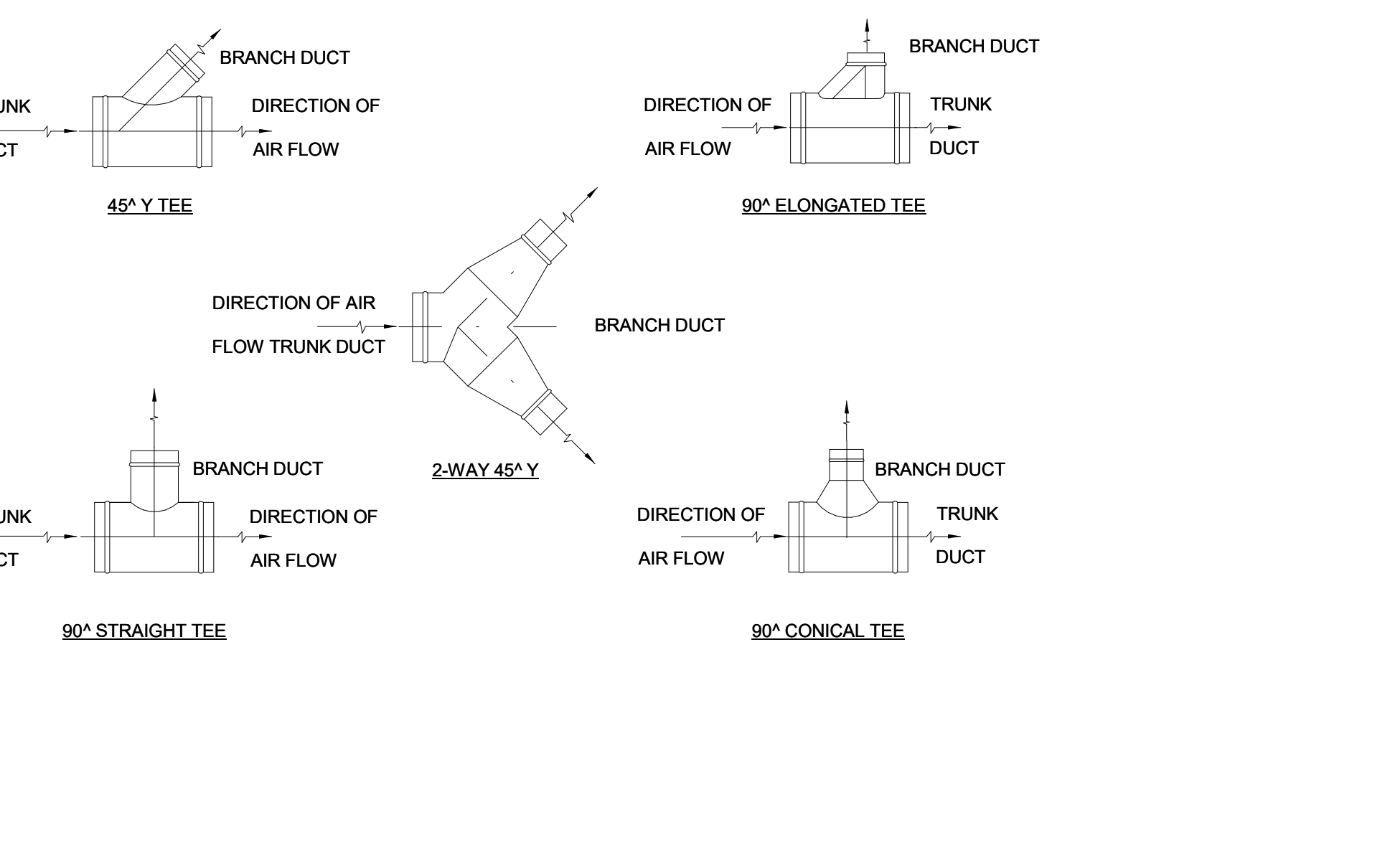
G CONCRETE FLOOR OR WALL MULTIPLE METALLIC PIPES FIRE STOPPING DETAIL
NO SCALE



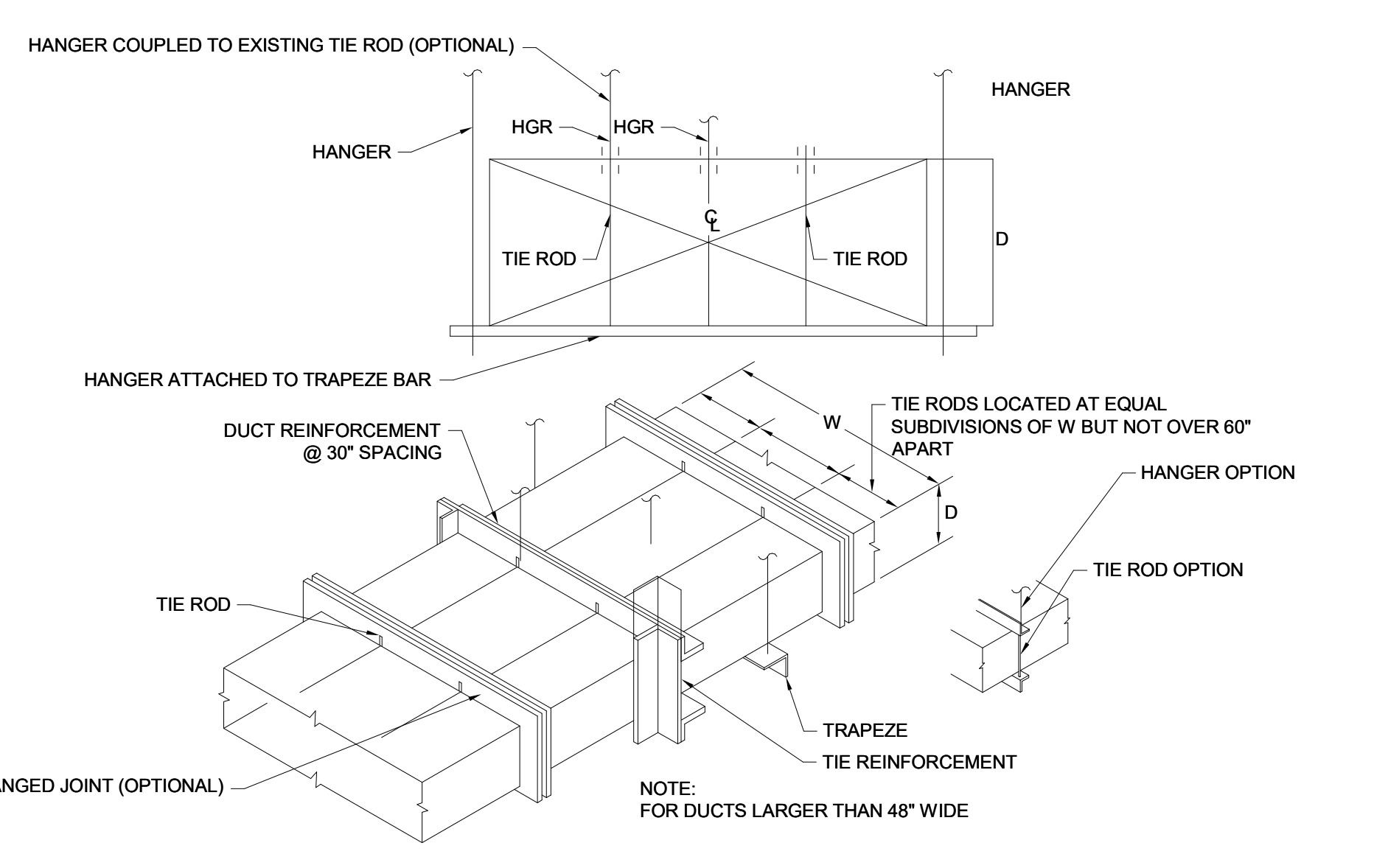
H BRANCH DUCT TAKE-OFF DETAIL
NO SCALE



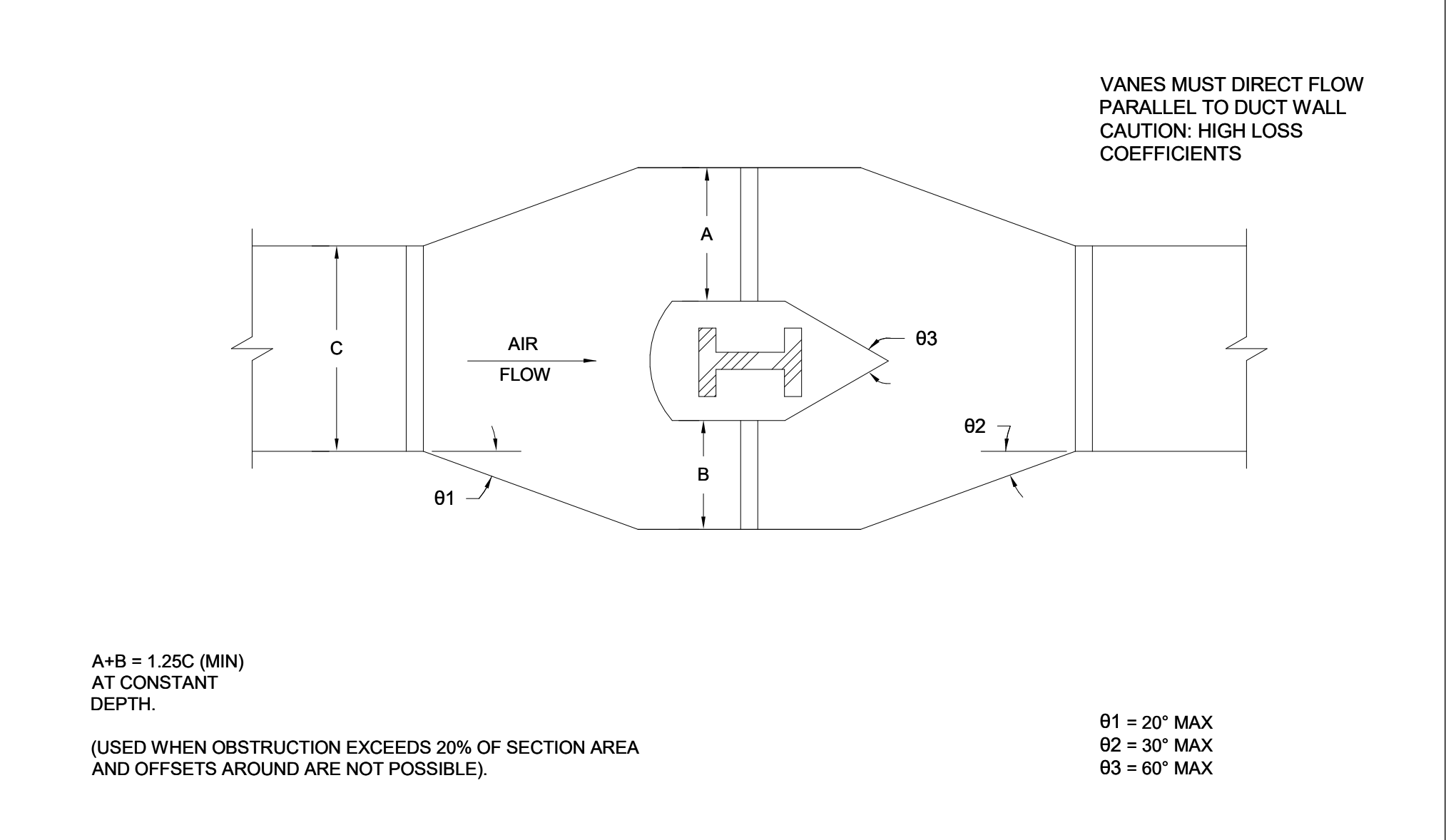
I LOW VELOCITY DUCT CONNECTIONS
NO SCALE



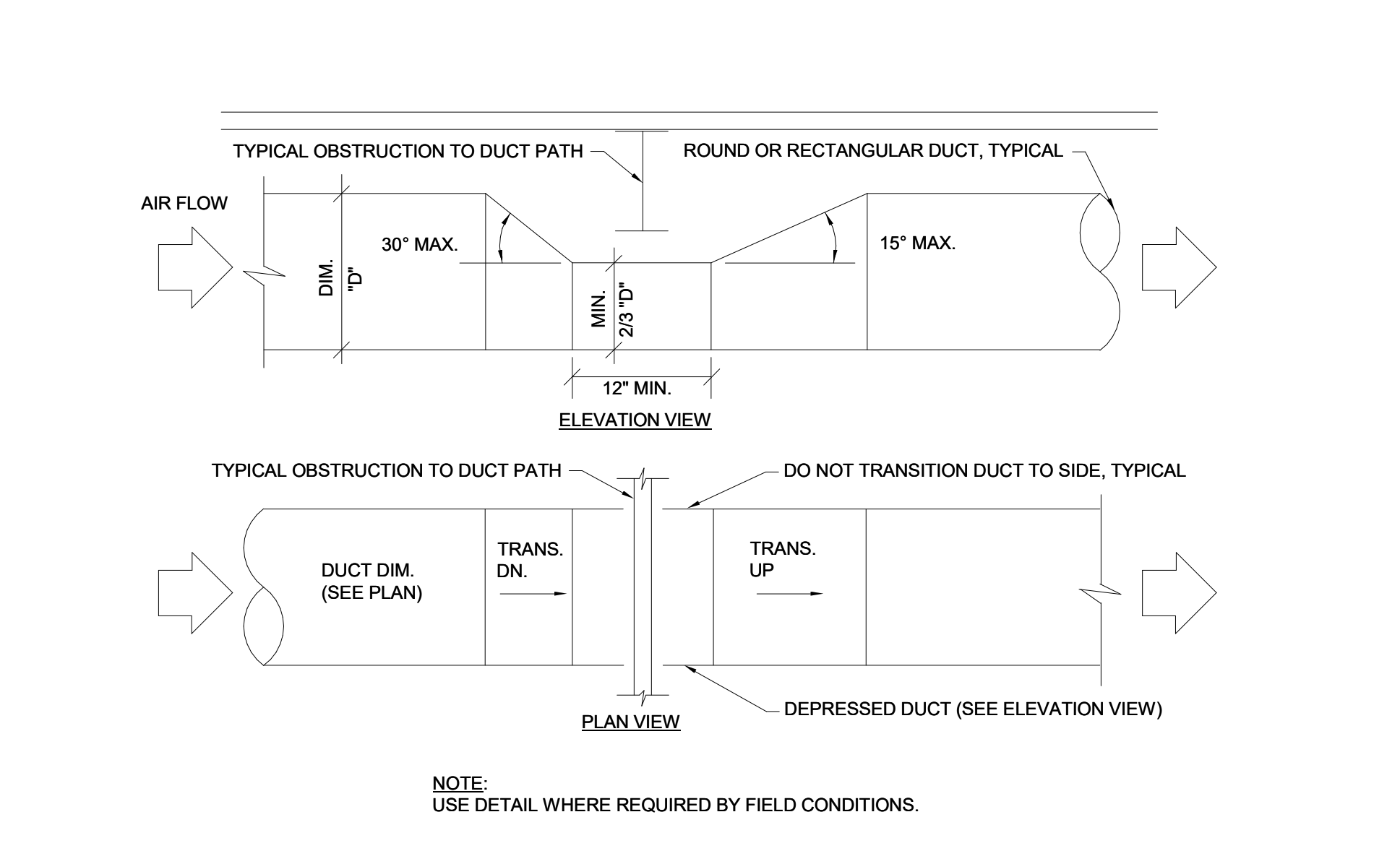
J ROUND DUCT BRANCH TAKE-OFF DETAILS
NO SCALE



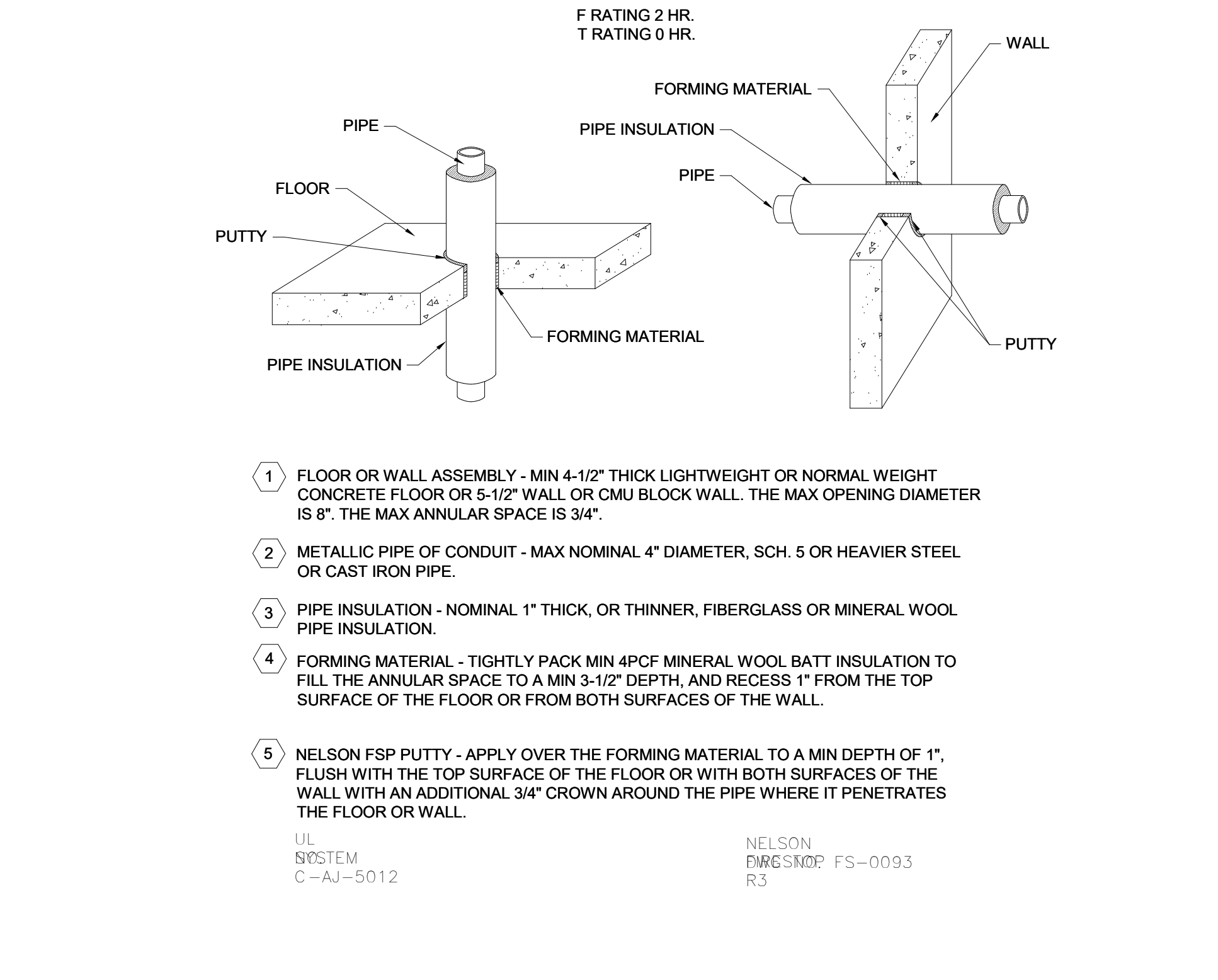
K LARGE DUCT REINFORCEMENT DETAIL
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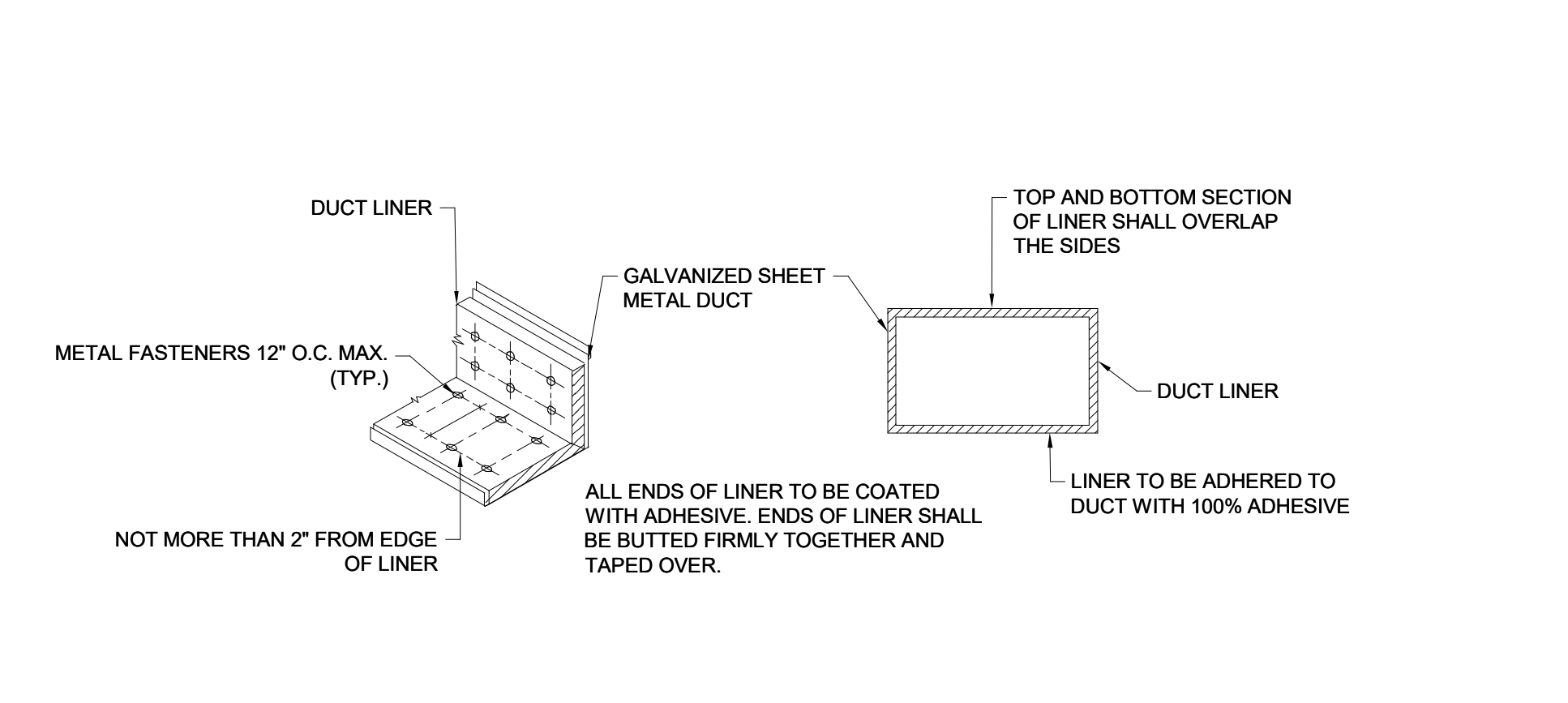
L LARGE DUCT REINFORCEMENT DETAIL
NO SCALE



M DUCT 'VENTURI' DEPRESSION DETAIL
NO SCALE



N DUCT LINER DETAIL
NO SCALE



O CONCRETE FLOOR OR WALL INSULATED METALLIC PIPE FIRE STOPPING DETAIL
NO SCALE

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1	ISSUED FOR T&E	10/1/99
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REVISIONS/ ISSUES
CONTRACTOR SHALL CHECK AND VERIFY ALL DIMENSIONS AND REPORT ANY OMISSIONS OR DISCREPANCIES TO THE ARCHITECT BEFORE PROCEEDING WITH THE WORK. DO NOT SCALE THE DRAWINGS.

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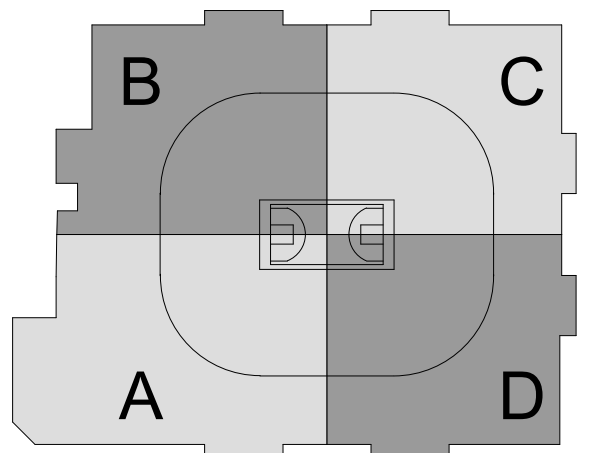
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HARTFORD, CT

DWG. TITLE
MECHANICAL DETAILS III - PHASE 2

SCALE
1/8" = 1'-0"
PROJ. NO.
1605

DWG. NO.
M-702.PH2



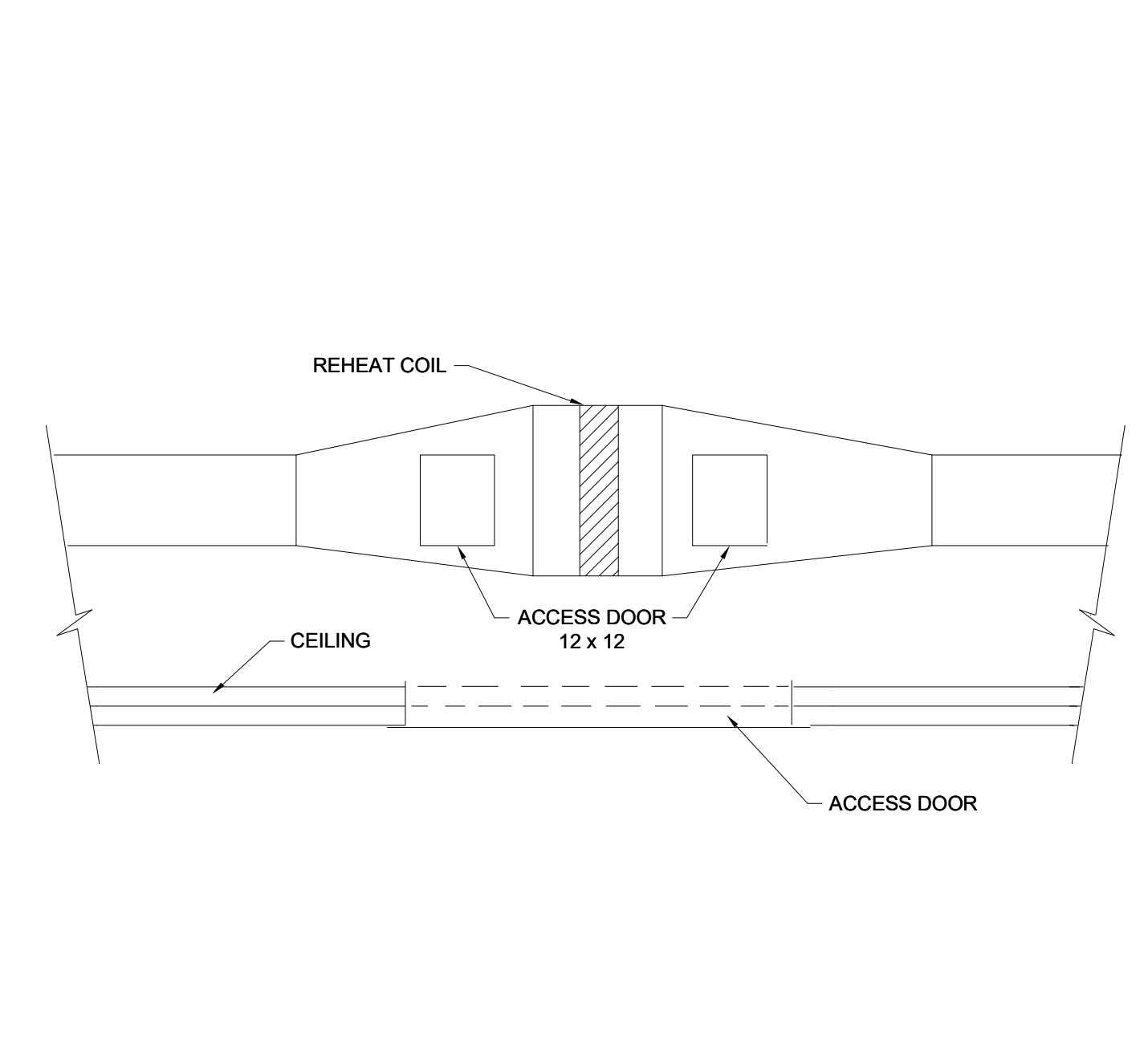
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REVISIONS/ ISSUES

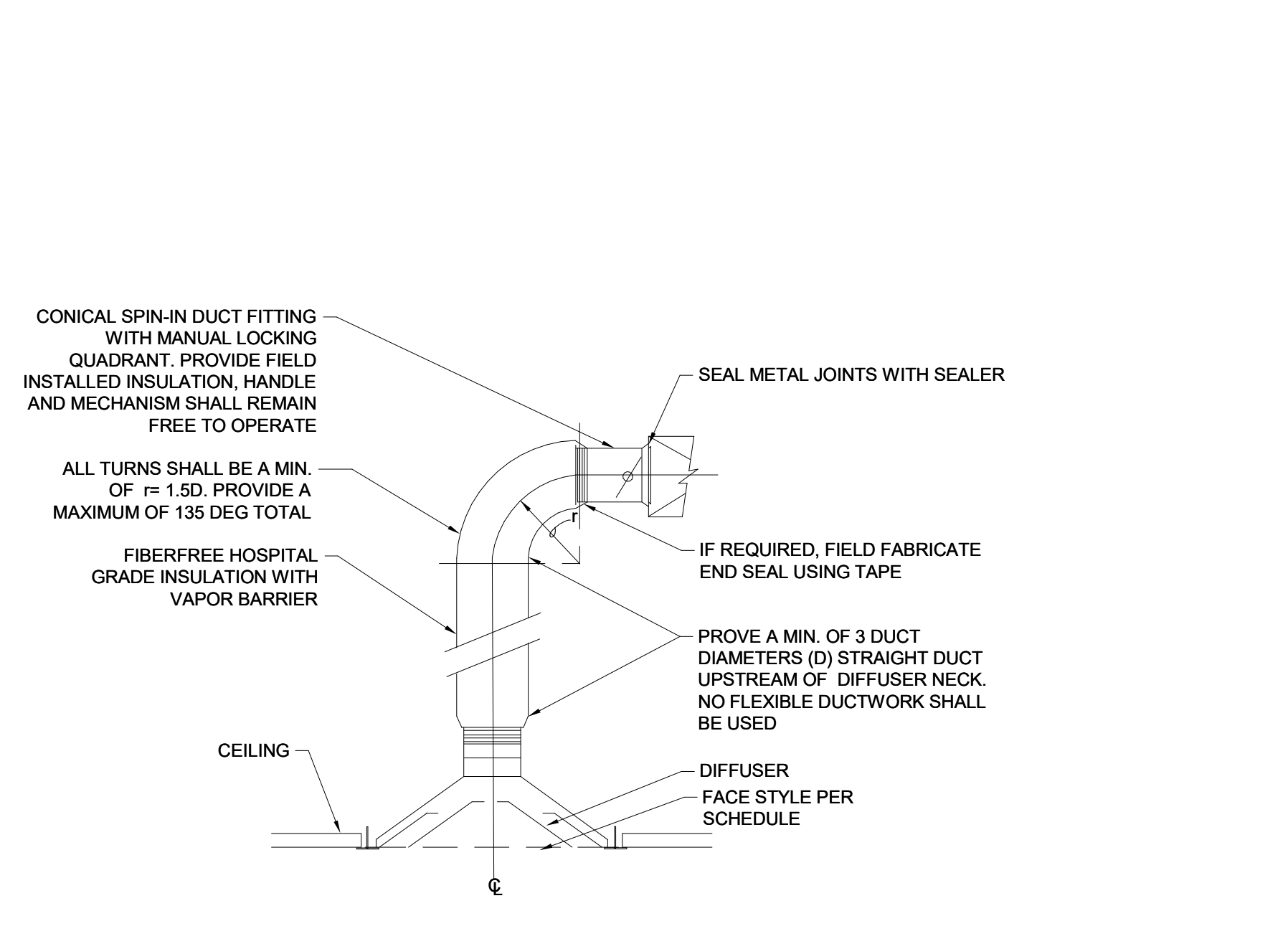
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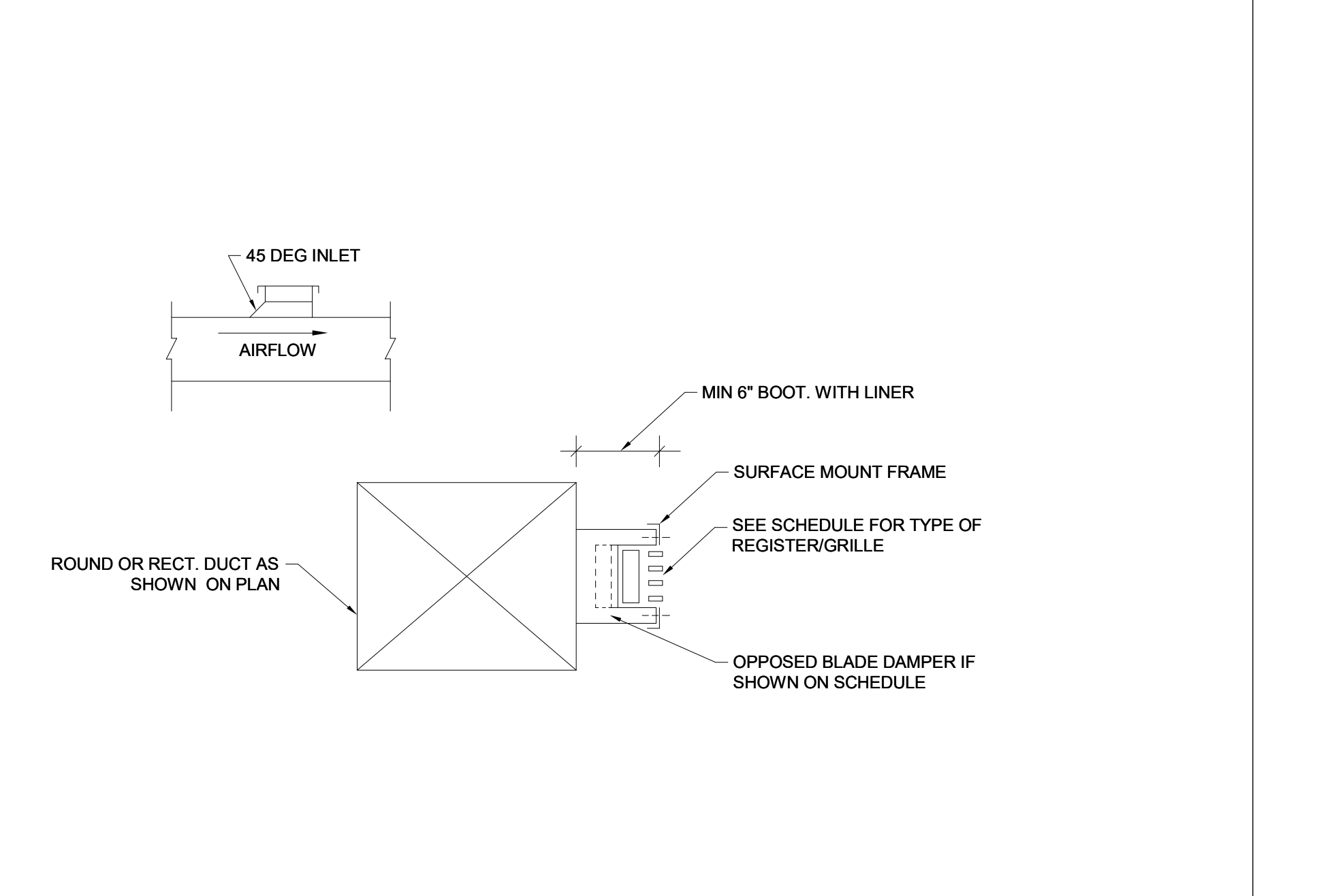
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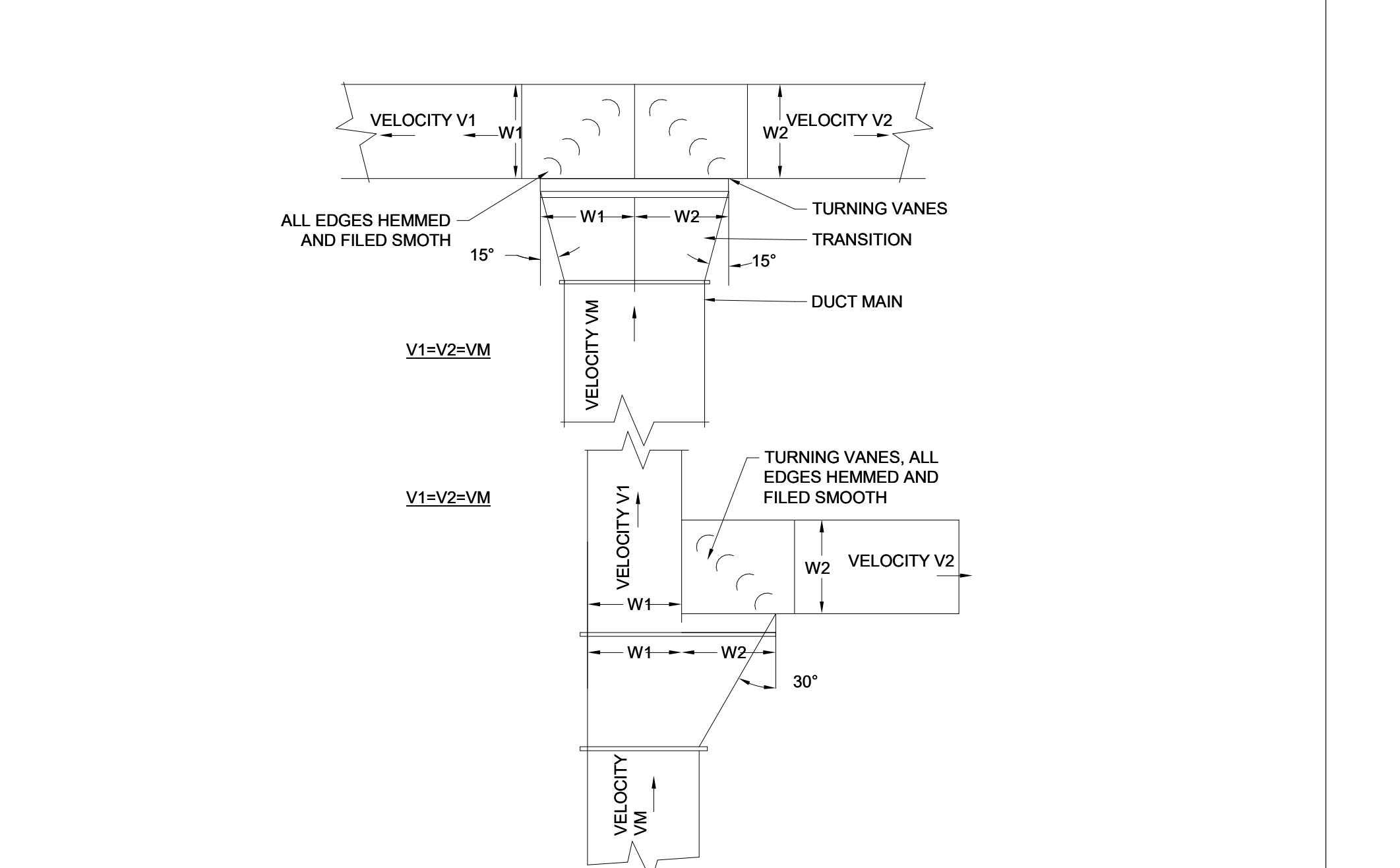
D DUCT MOUNTED REHEAT COIL
NO SCALE



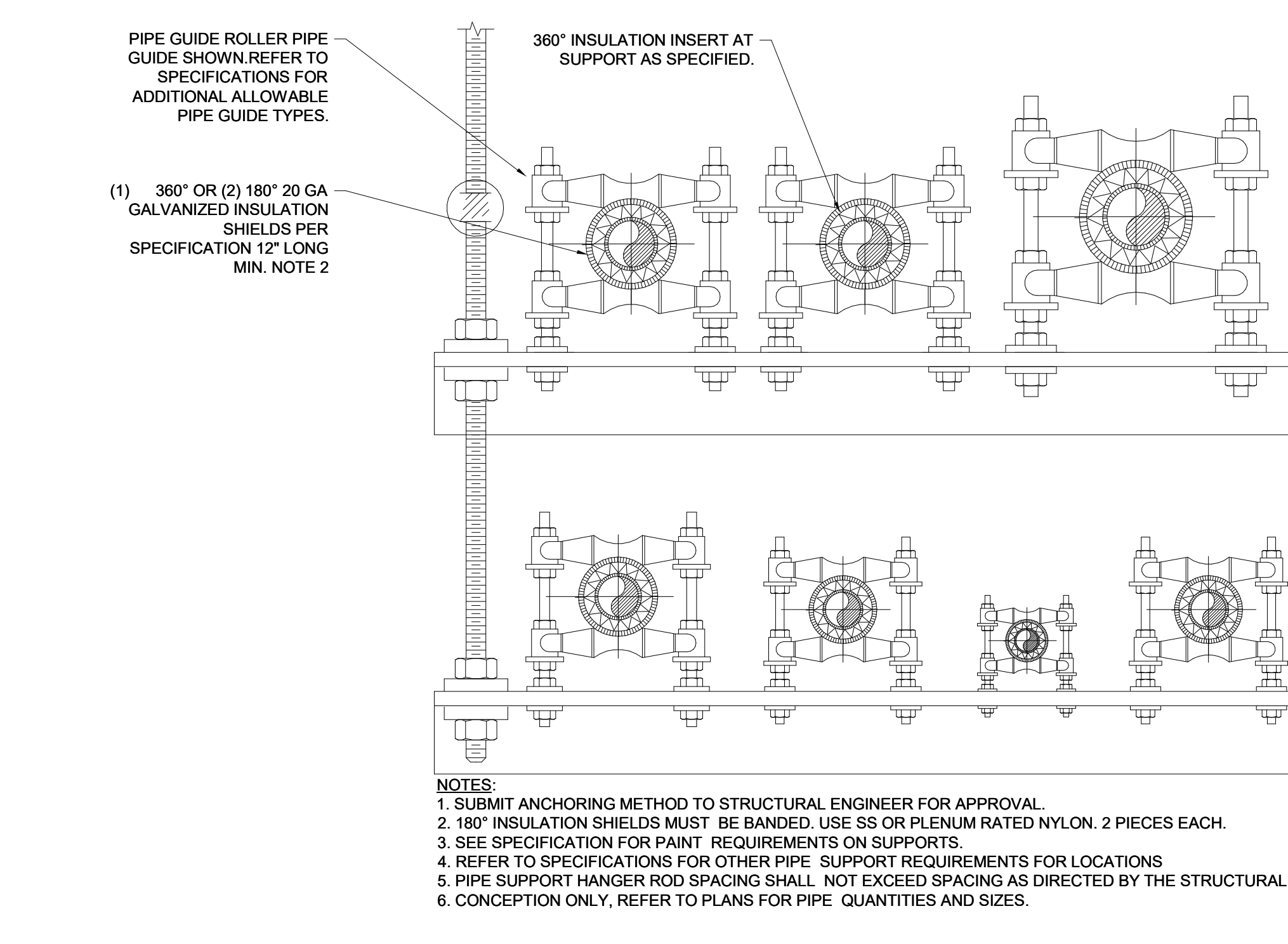
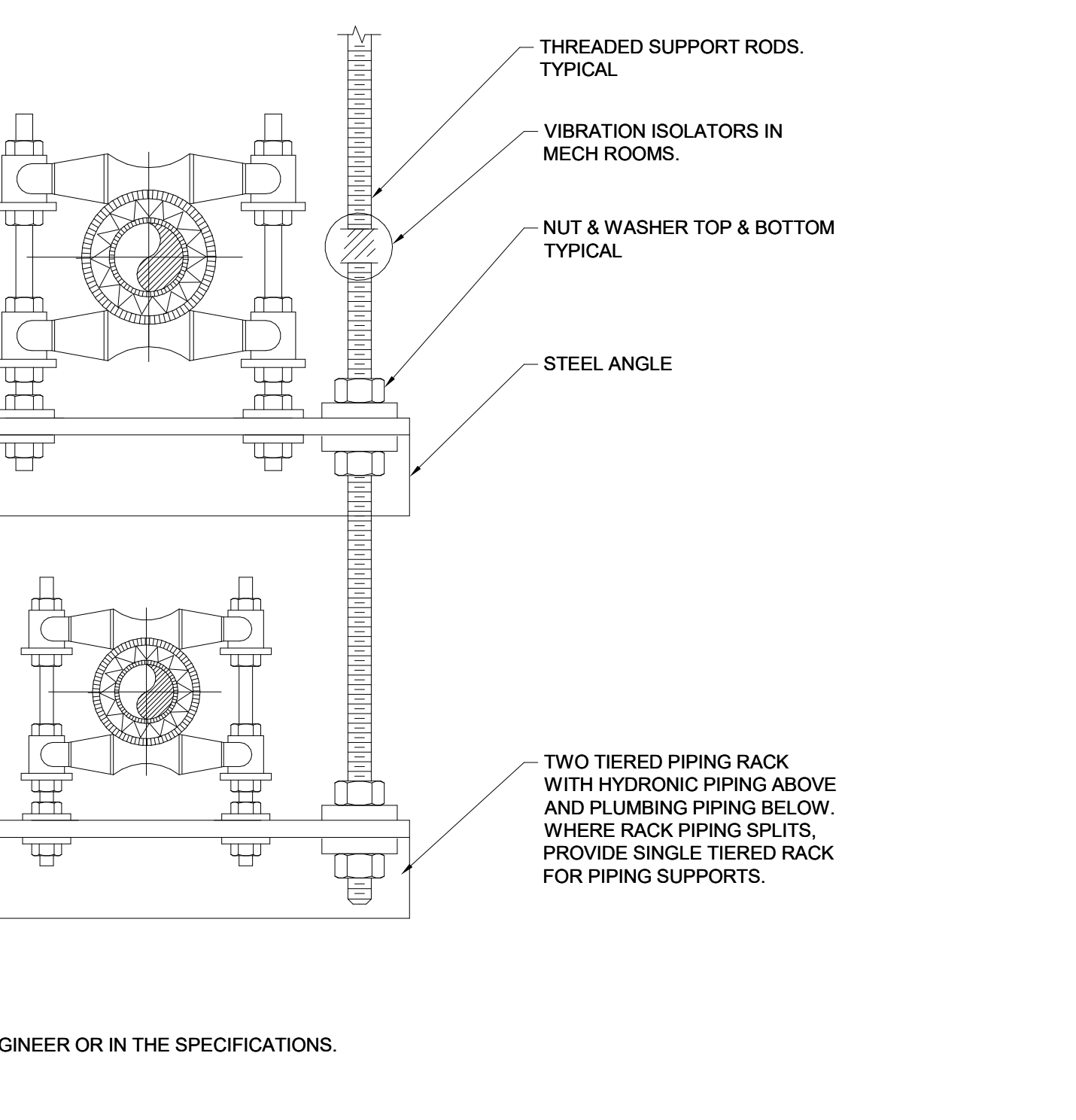
C CEILING DIFFUSER DETAIL (HARD DUCT)
NO SCALE



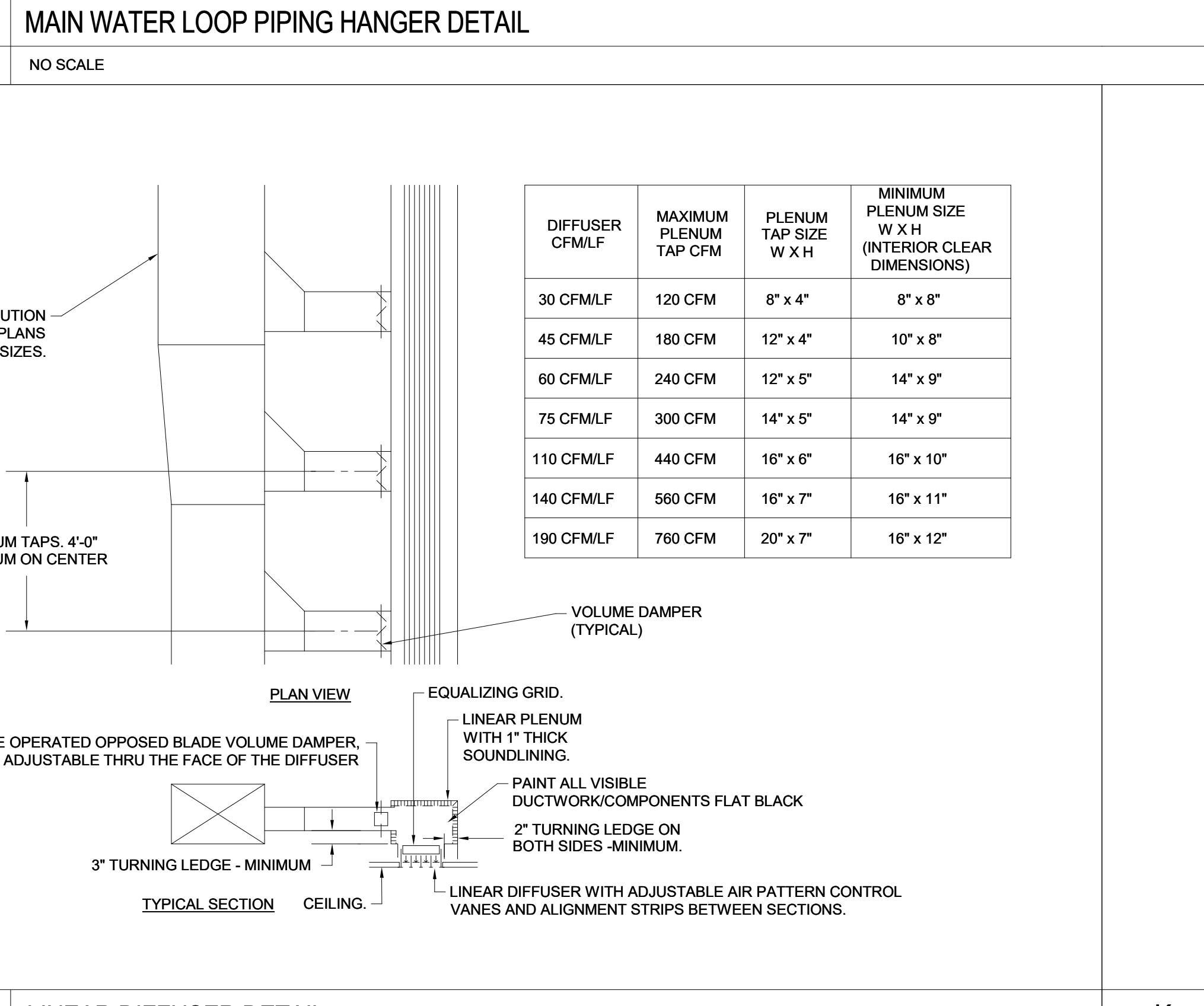
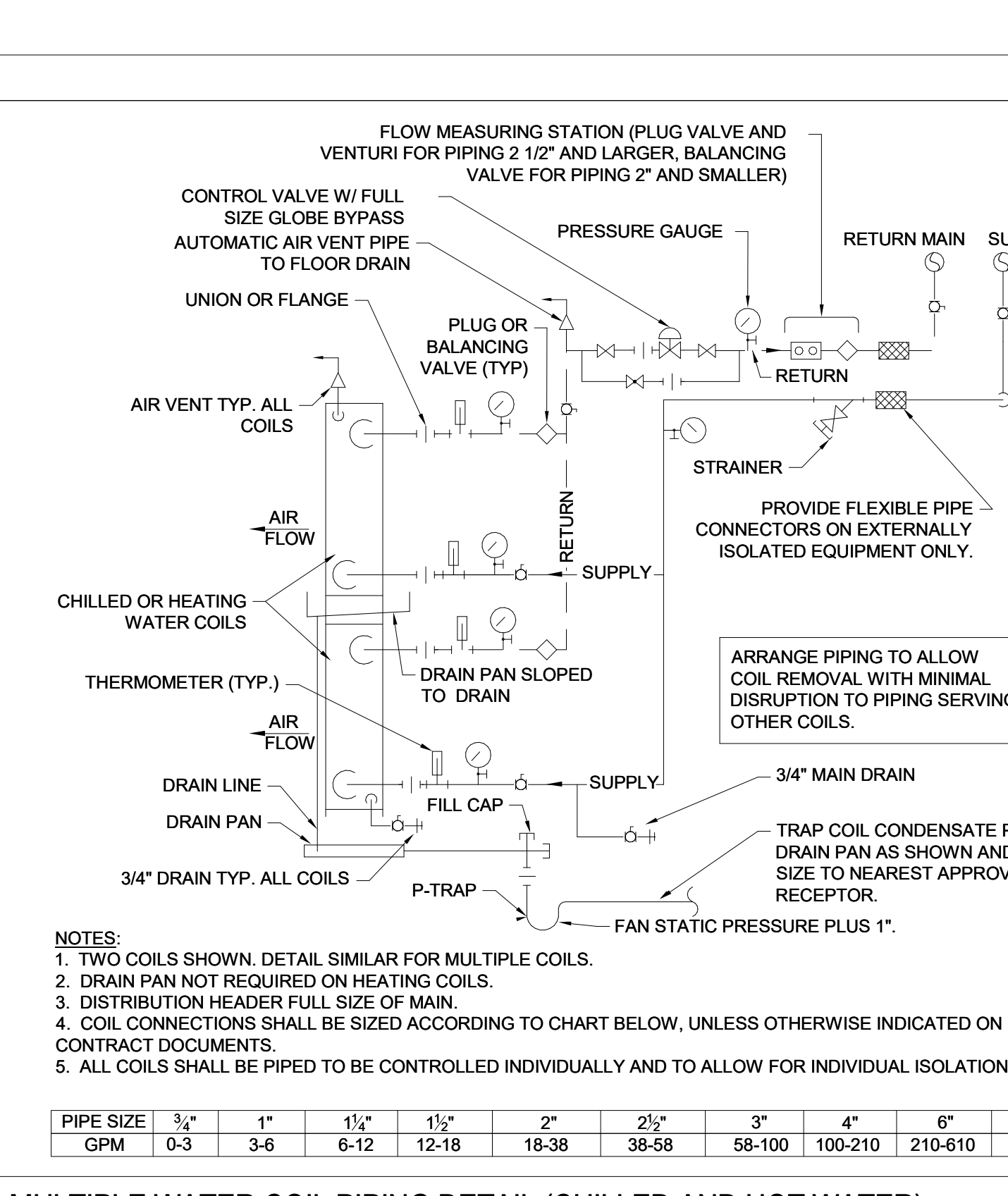
B DUCT MOUNTED AIR DEVICE
NO SCALE



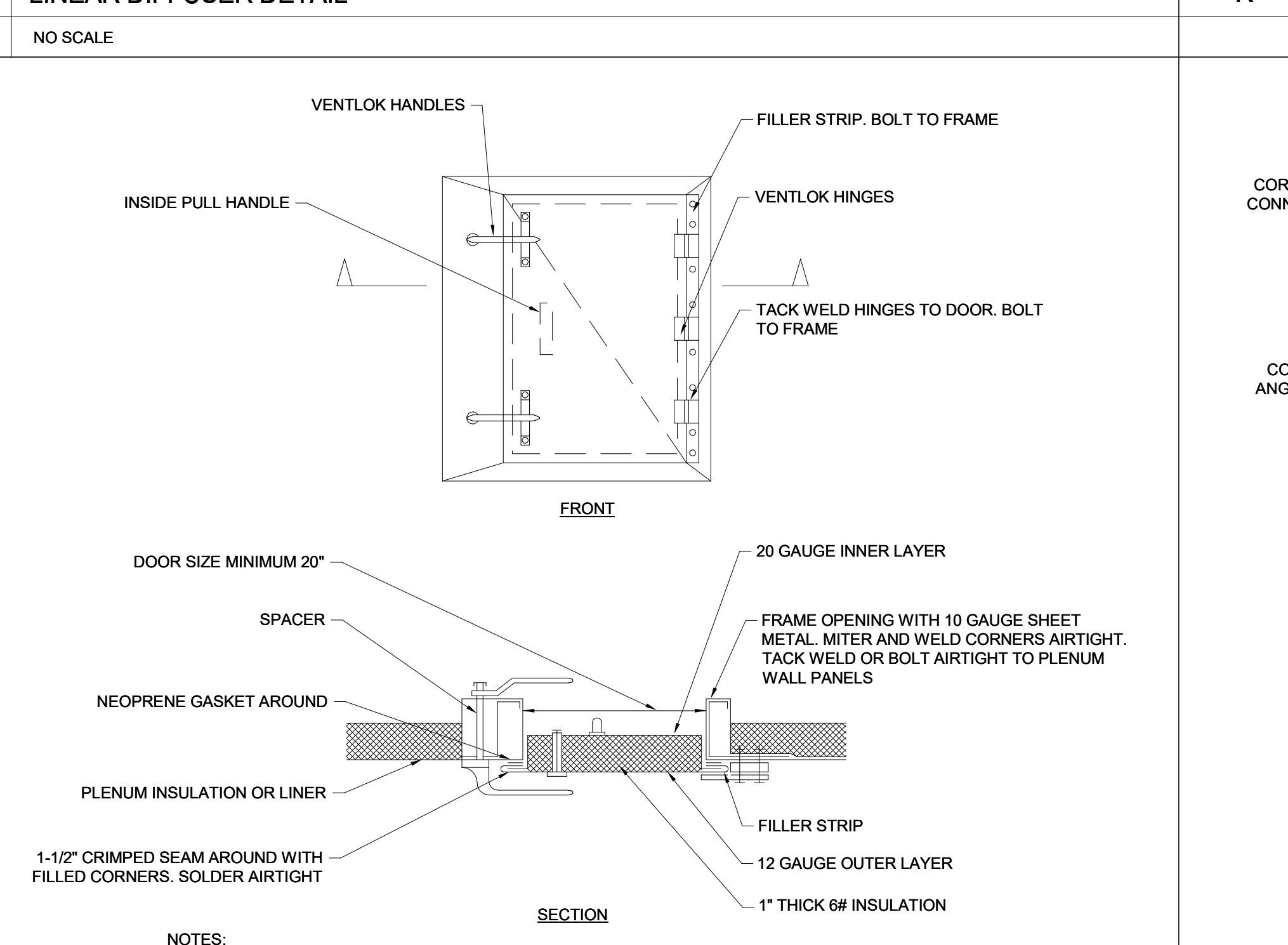
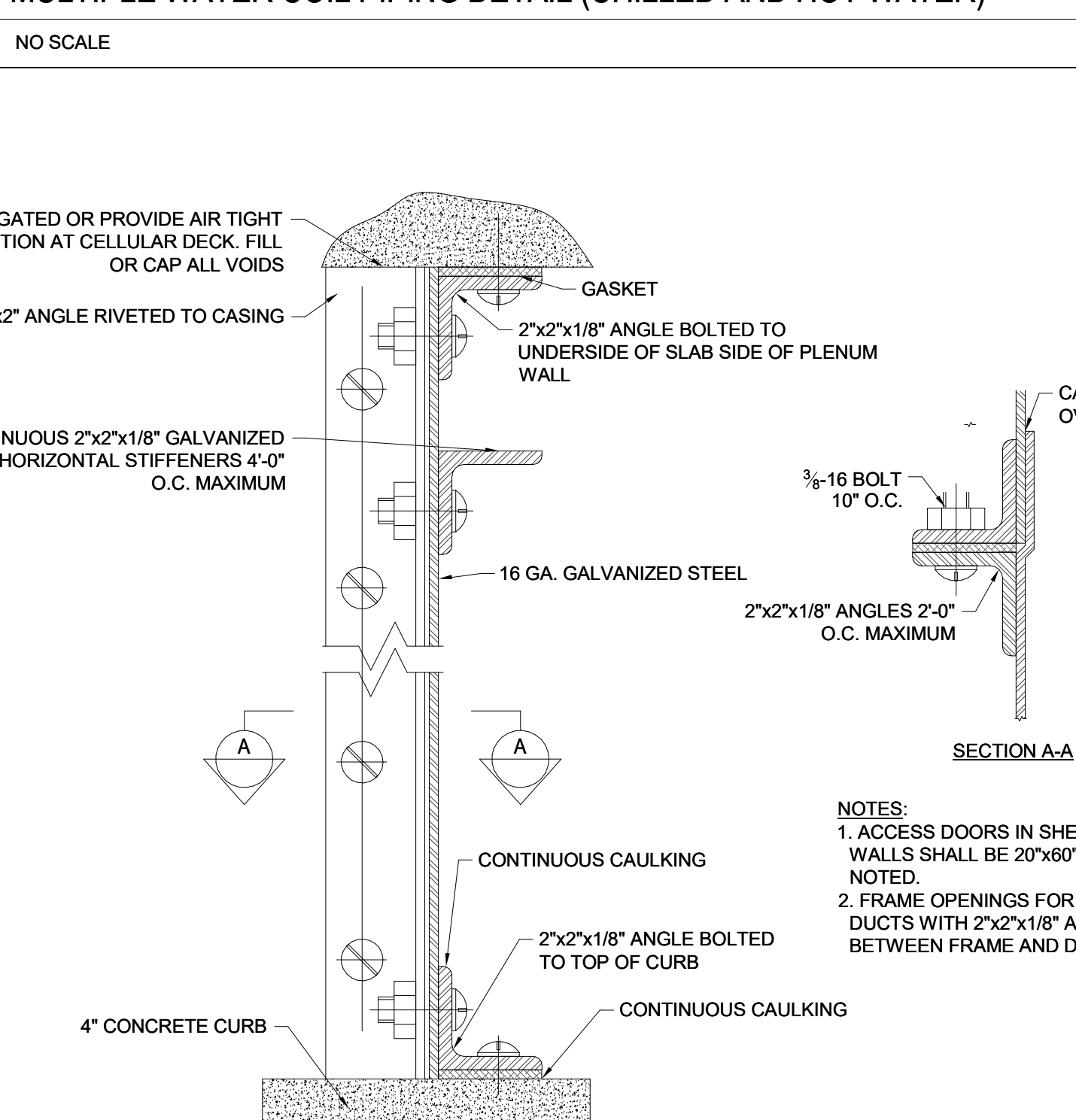
A DUCT SPLIT DETAIL
NO SCALE



G MAIN WATER LOOP PIPING HANGER DETAIL
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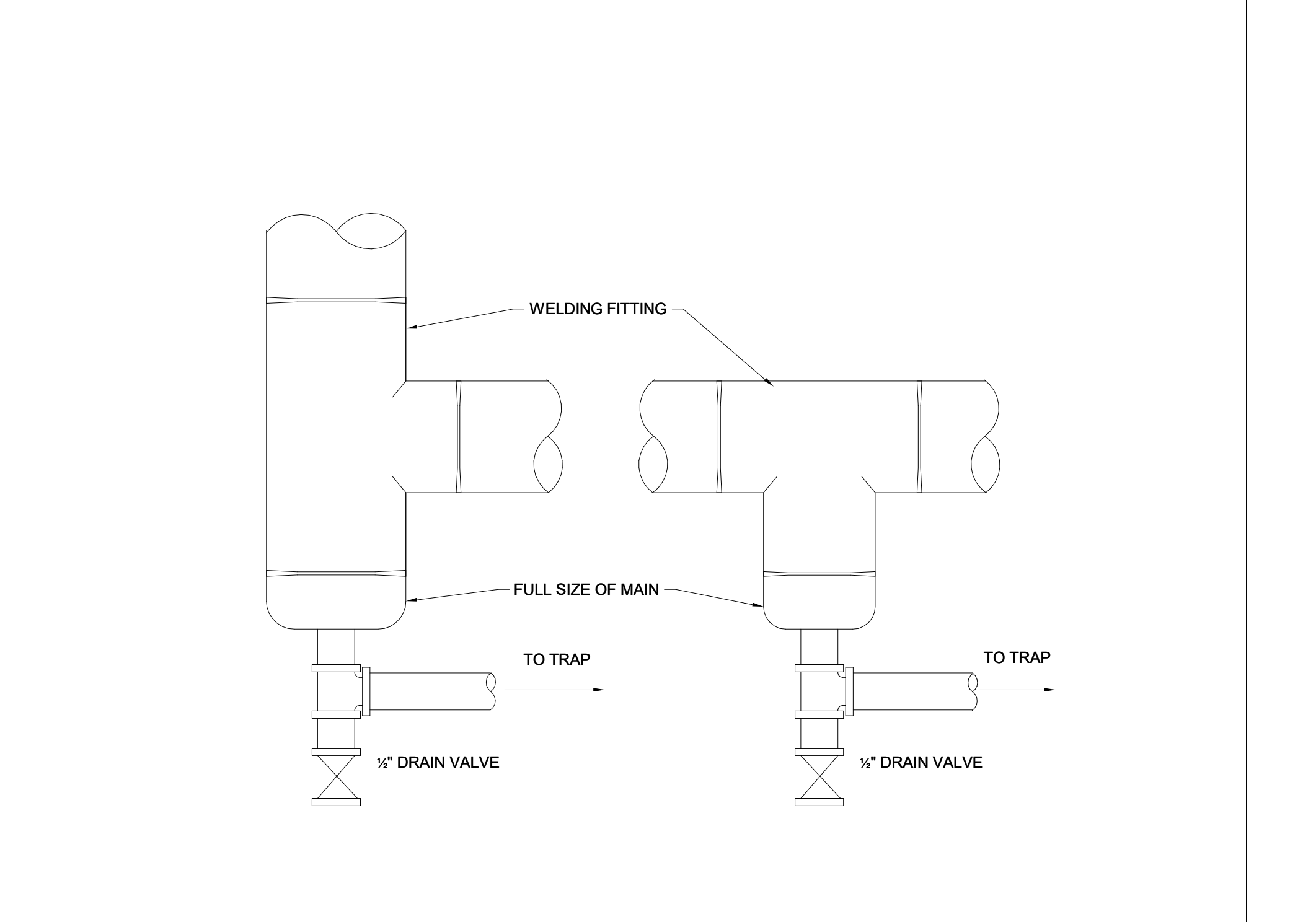
J LINEAR DIFFUSER DETAIL
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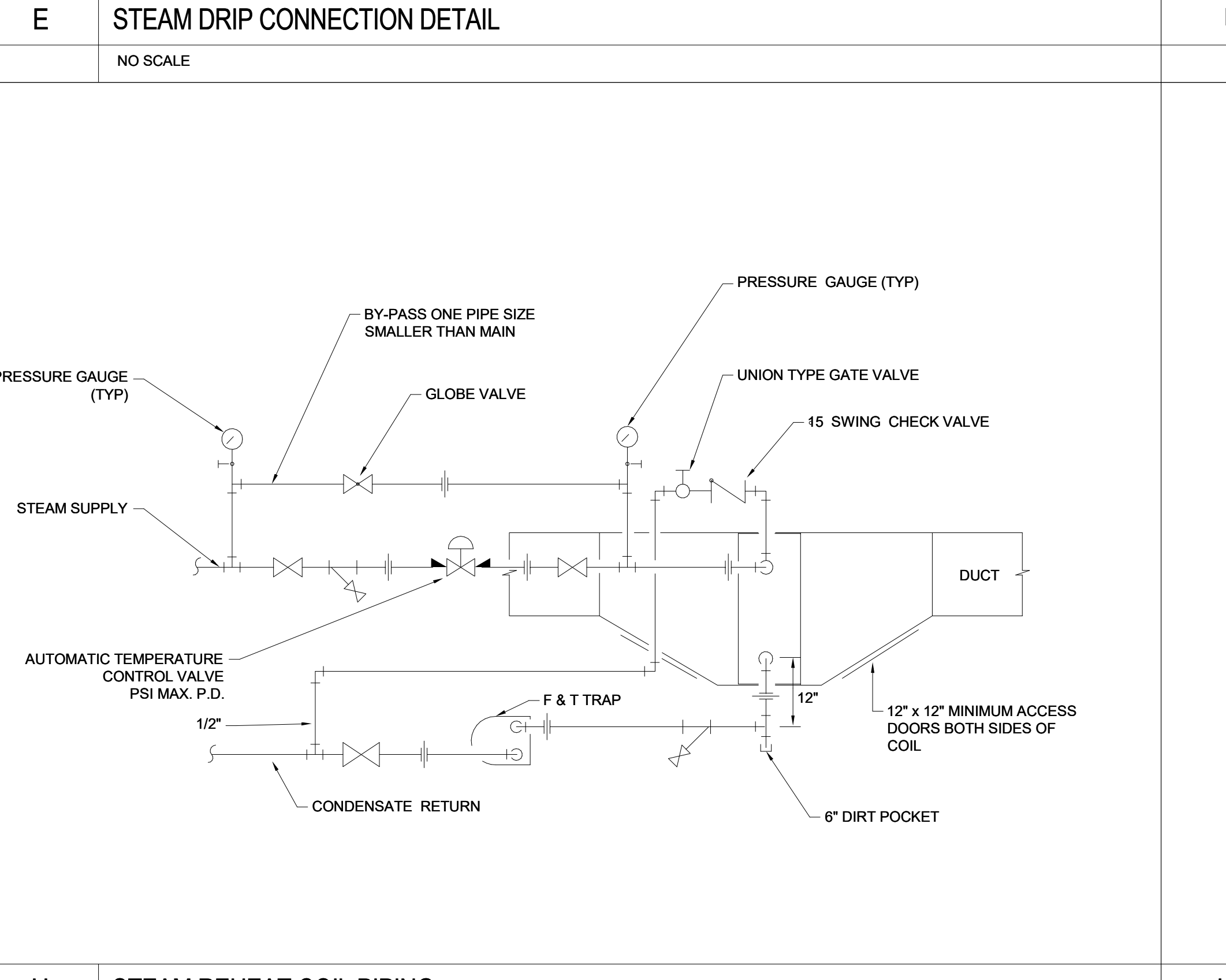
M COOLING COIL DRAIN PAN DETAIL
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O SHEET METAL PLENUM DETAIL
NO SCALE

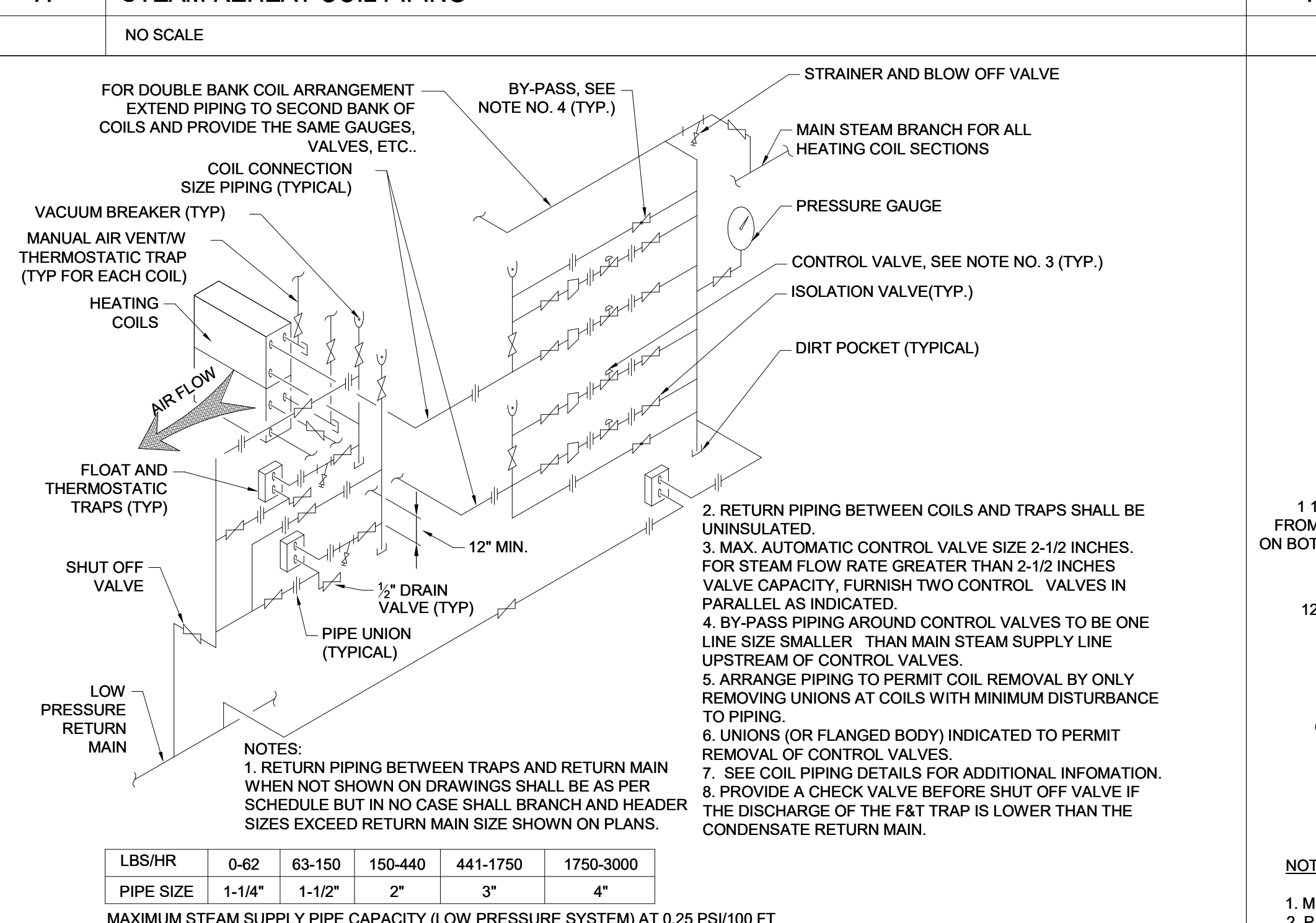
N PLENUM DOOR
NO SCALE



E STEAM DRIP CONNECTION DETAIL
NO SCALE



H STEAM REHEAT COIL PIPING
NO SCALE

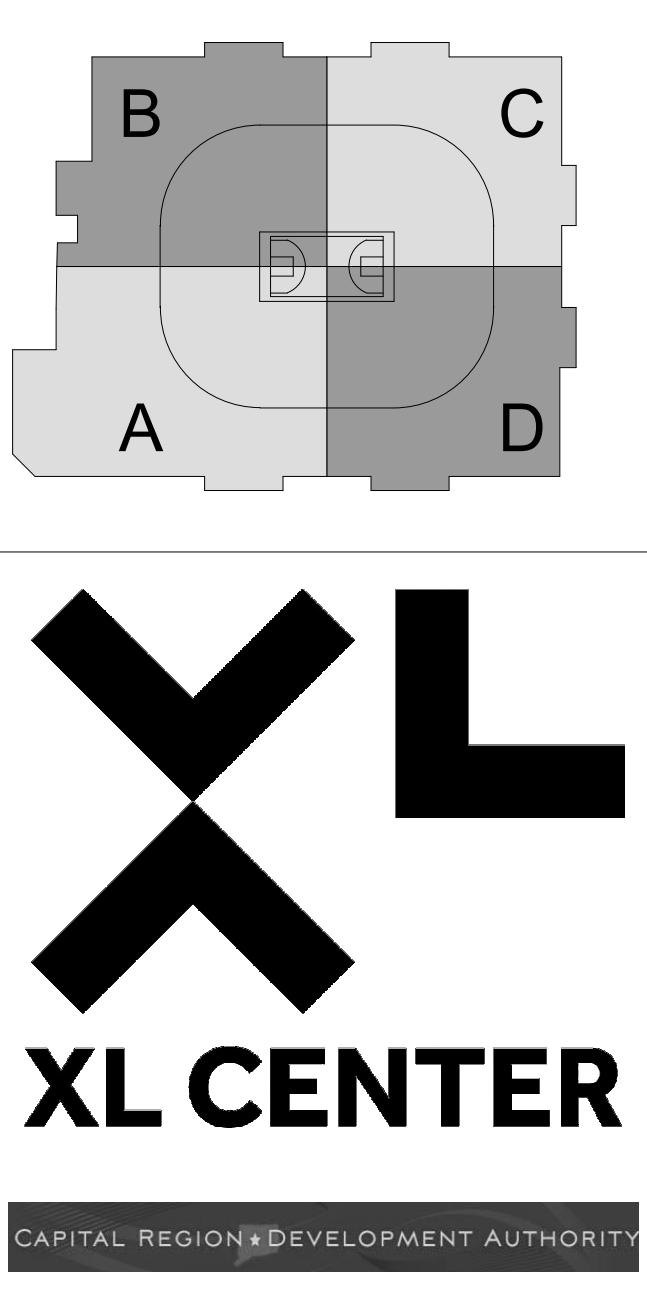
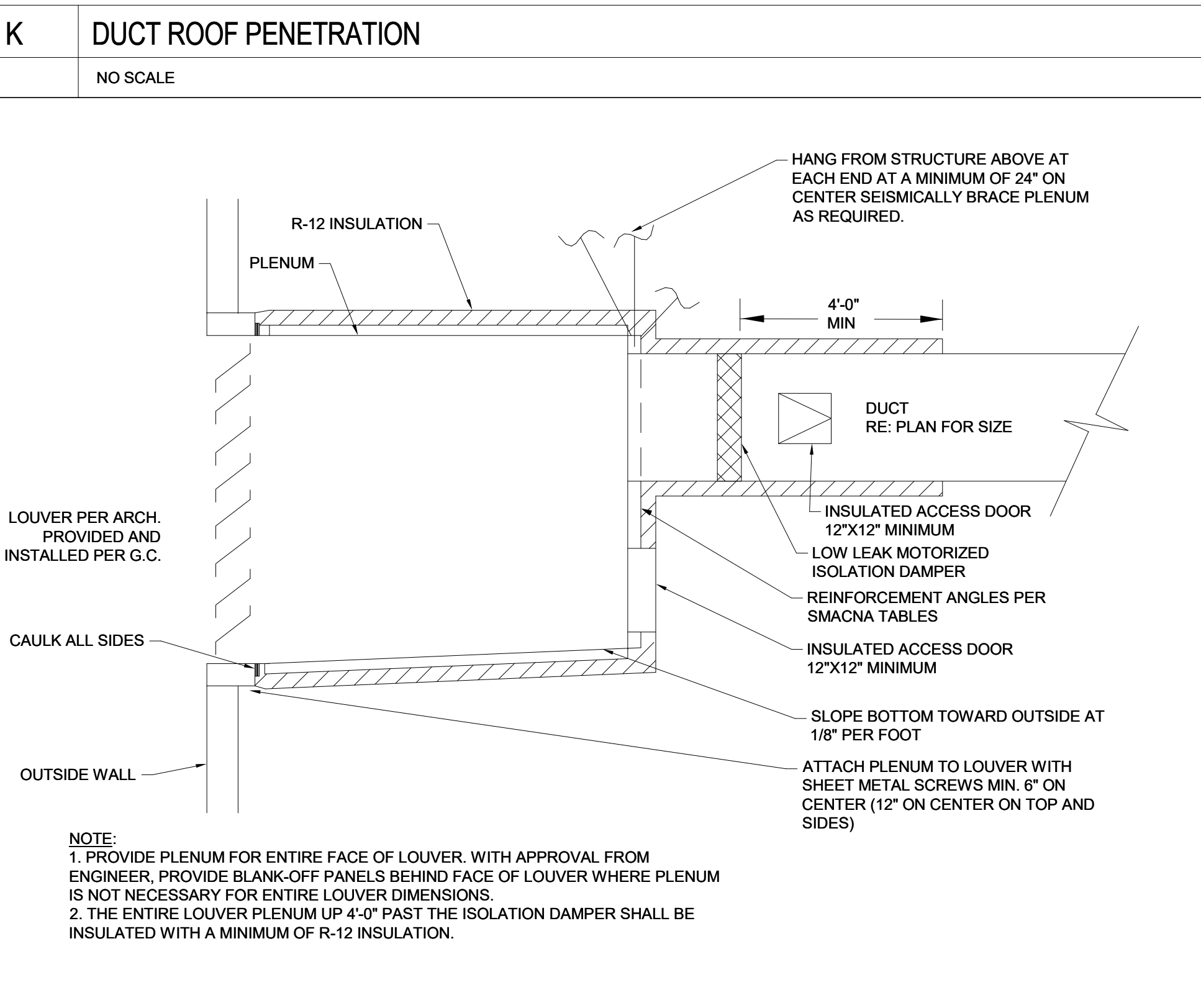
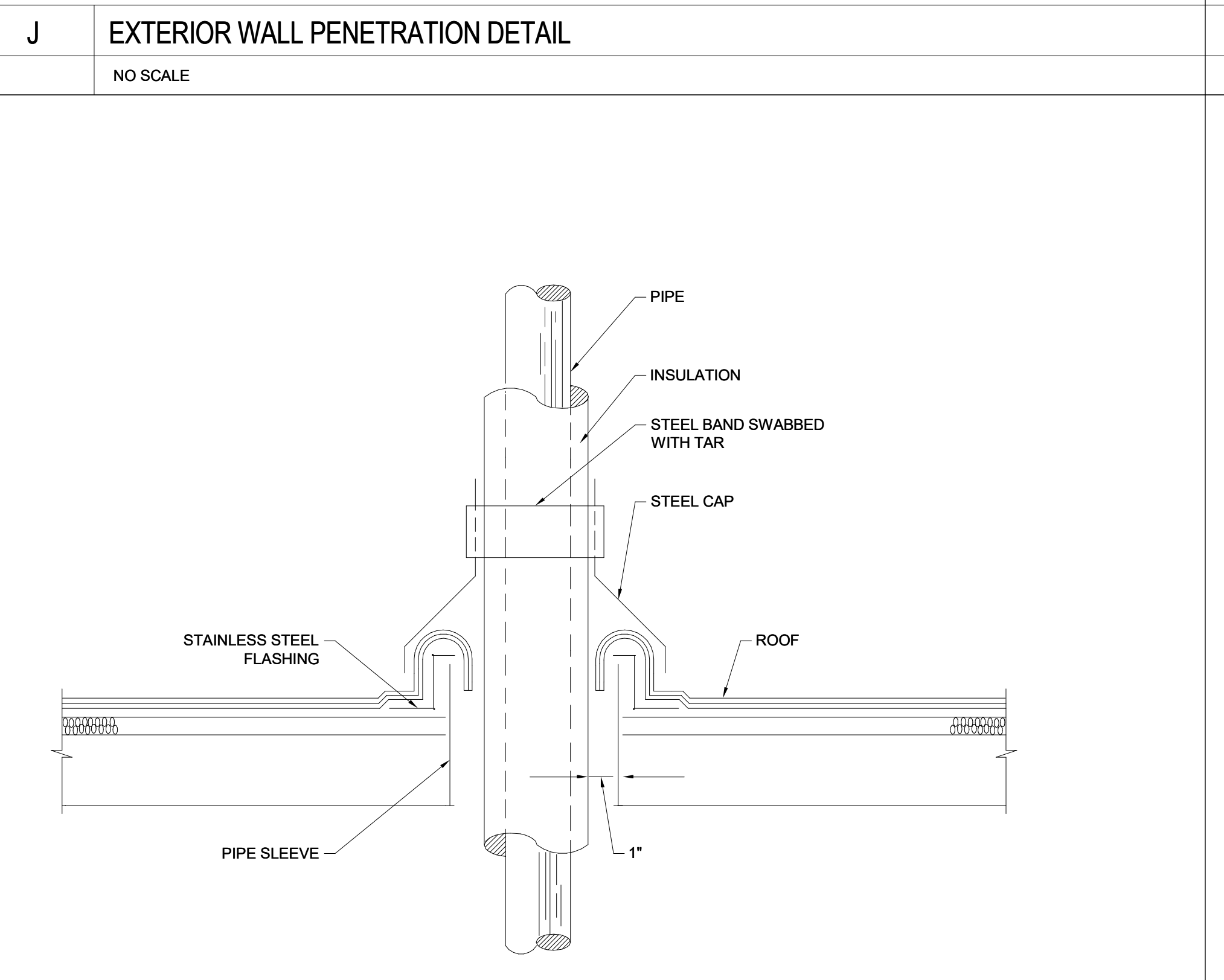
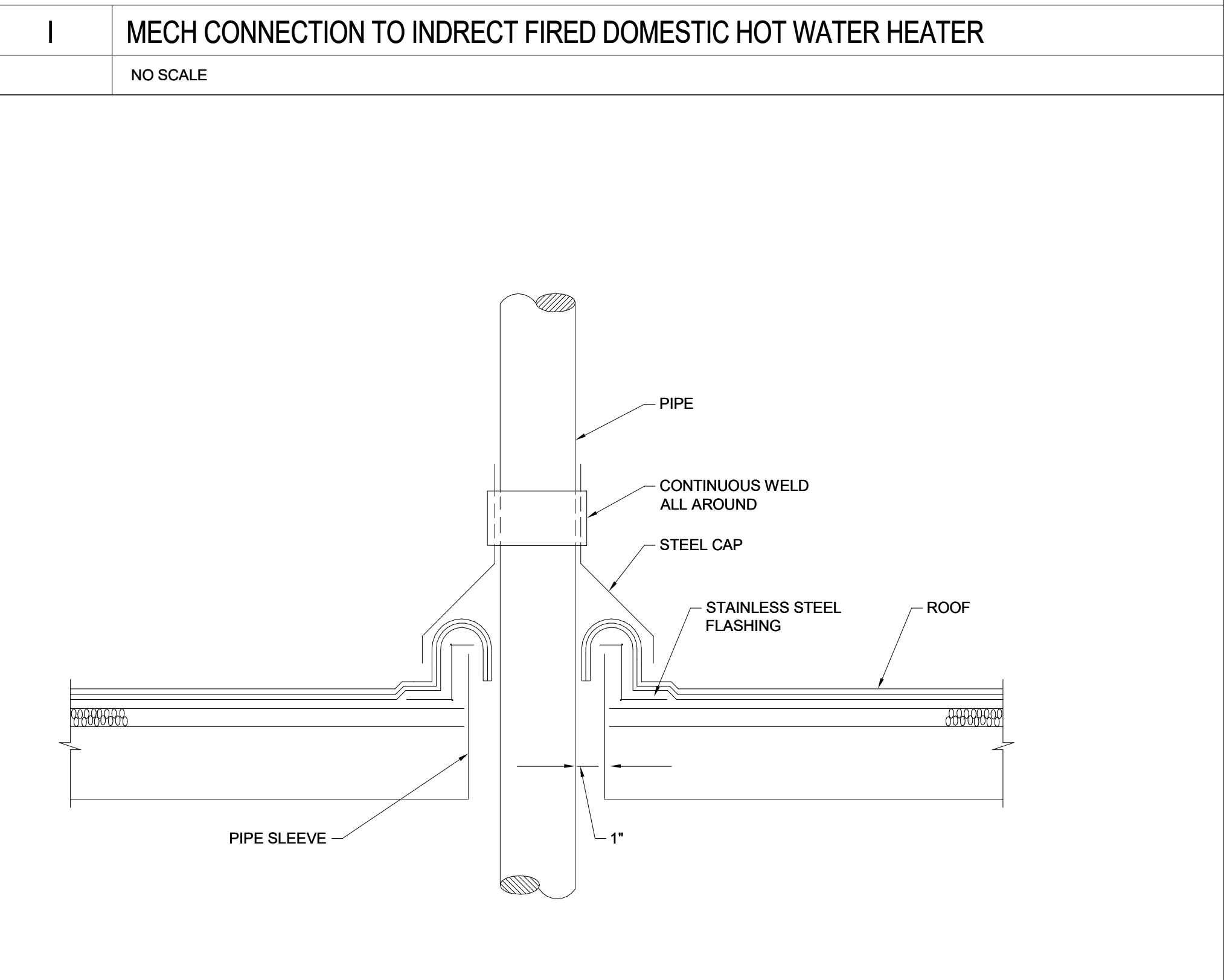
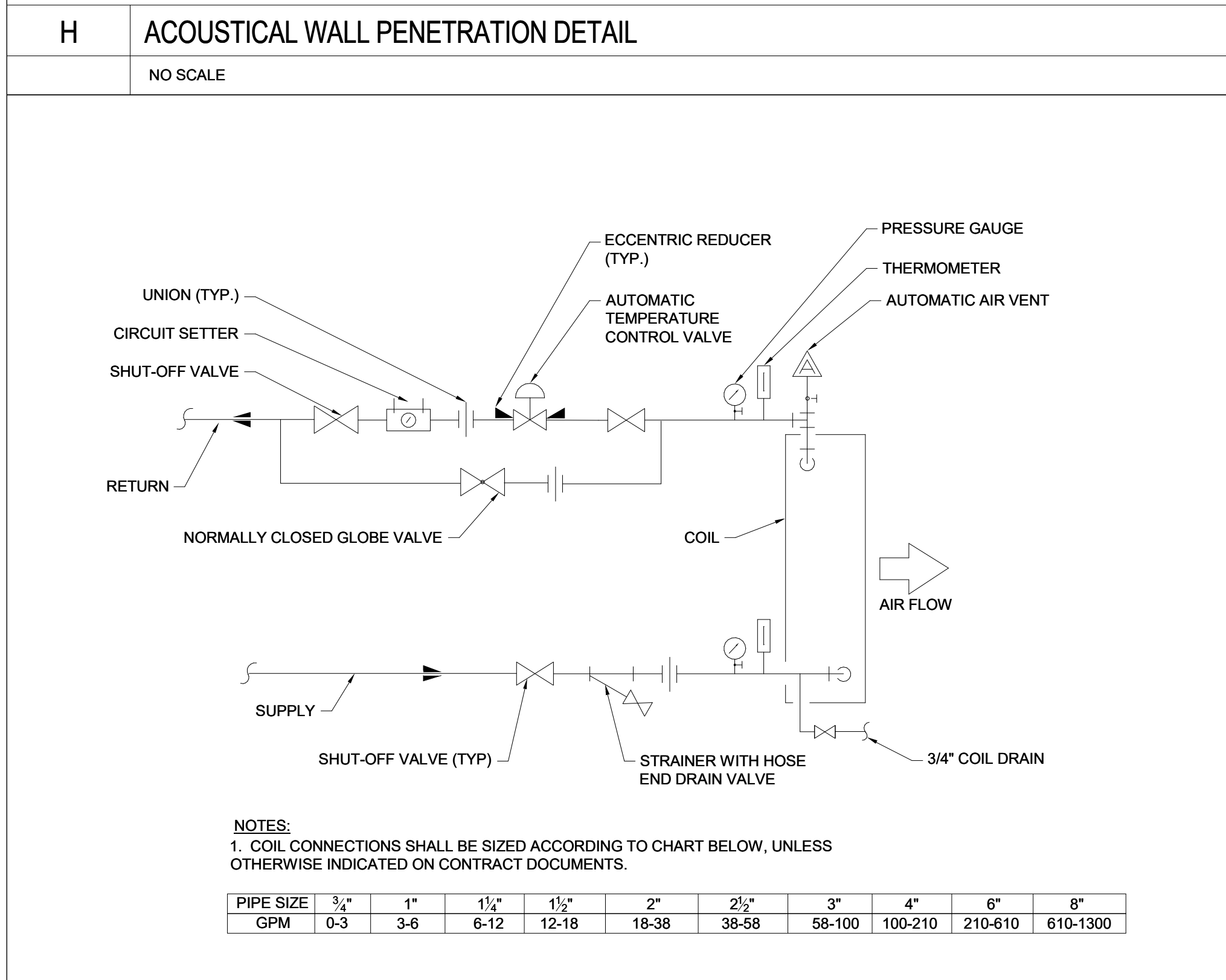
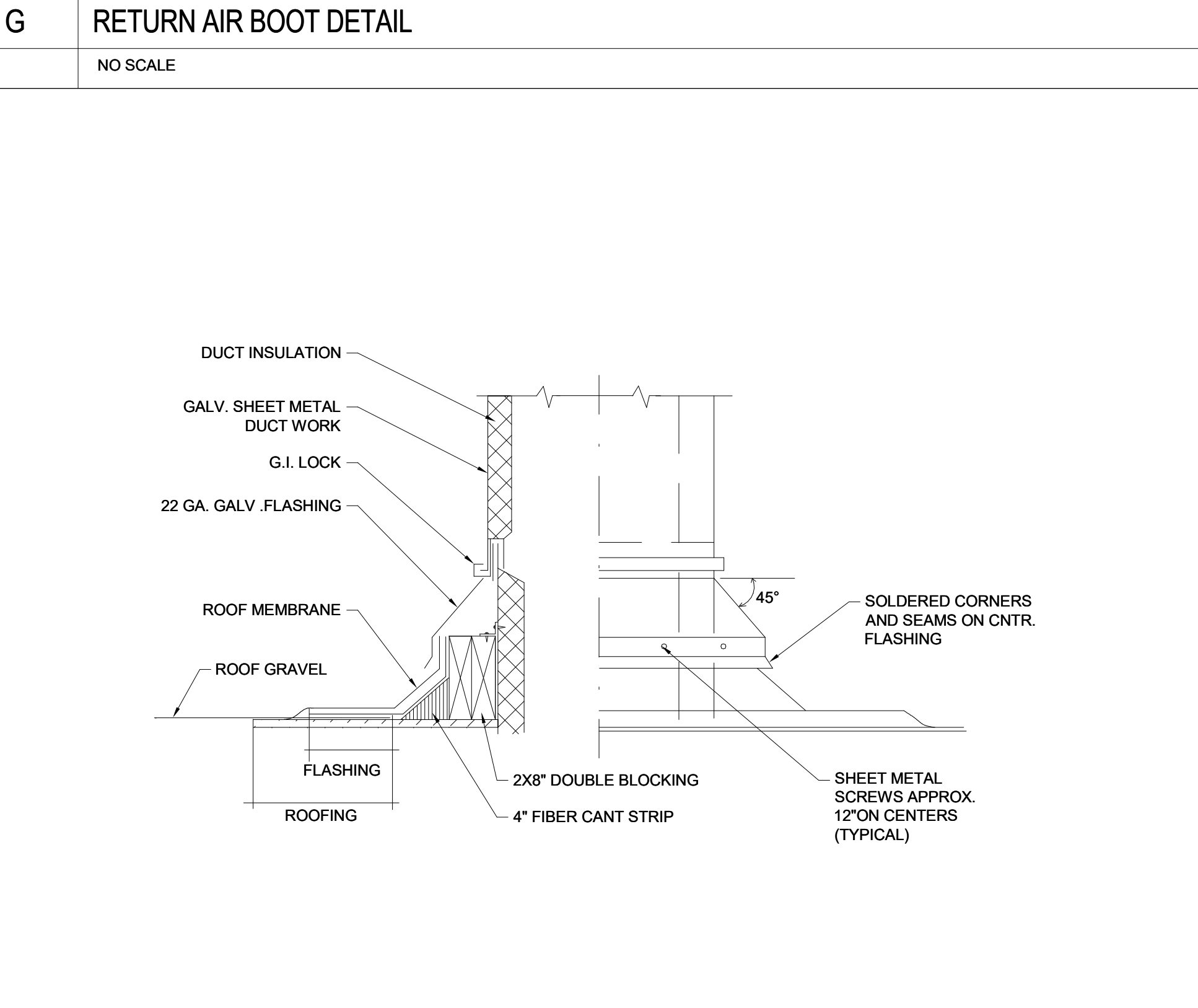
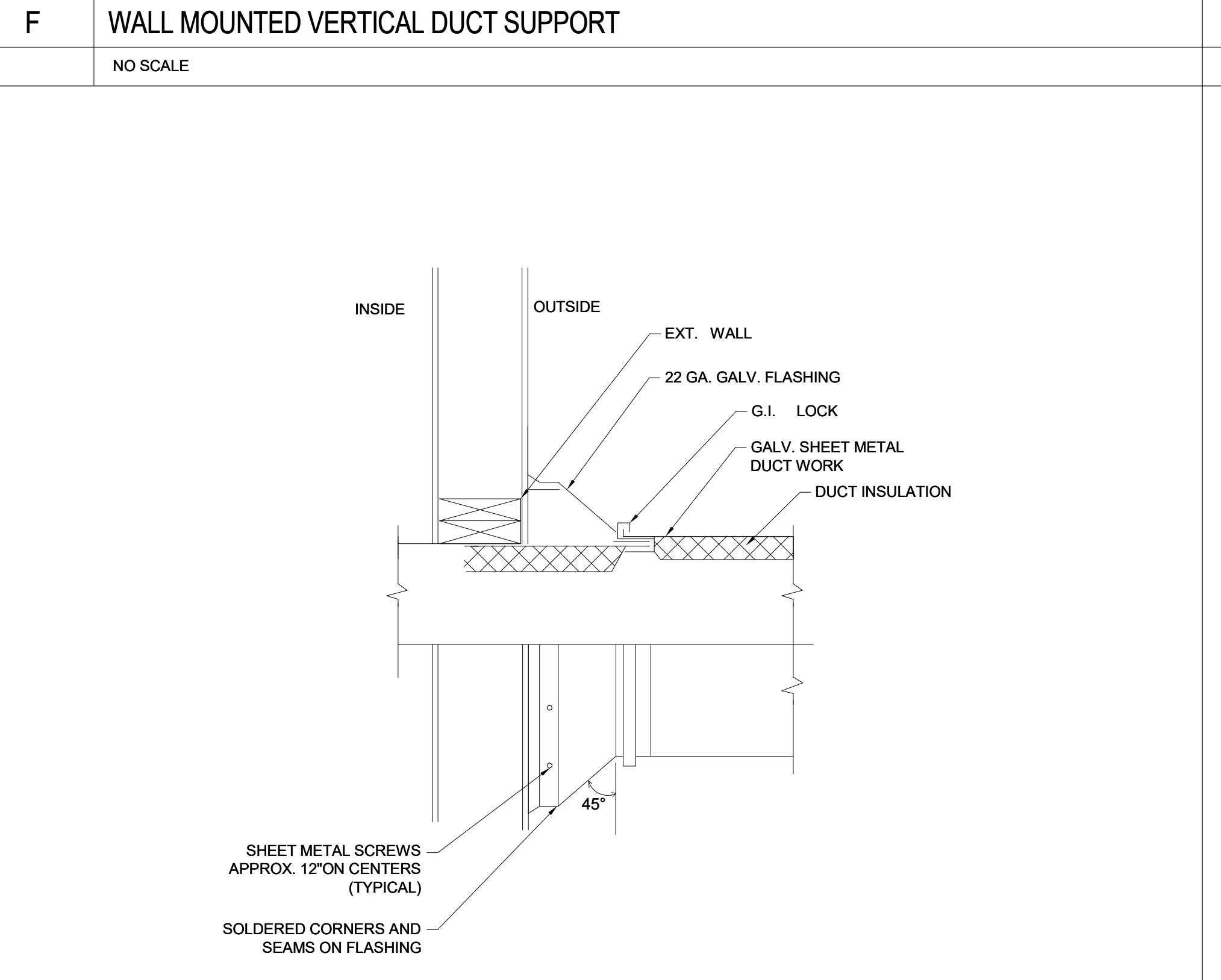
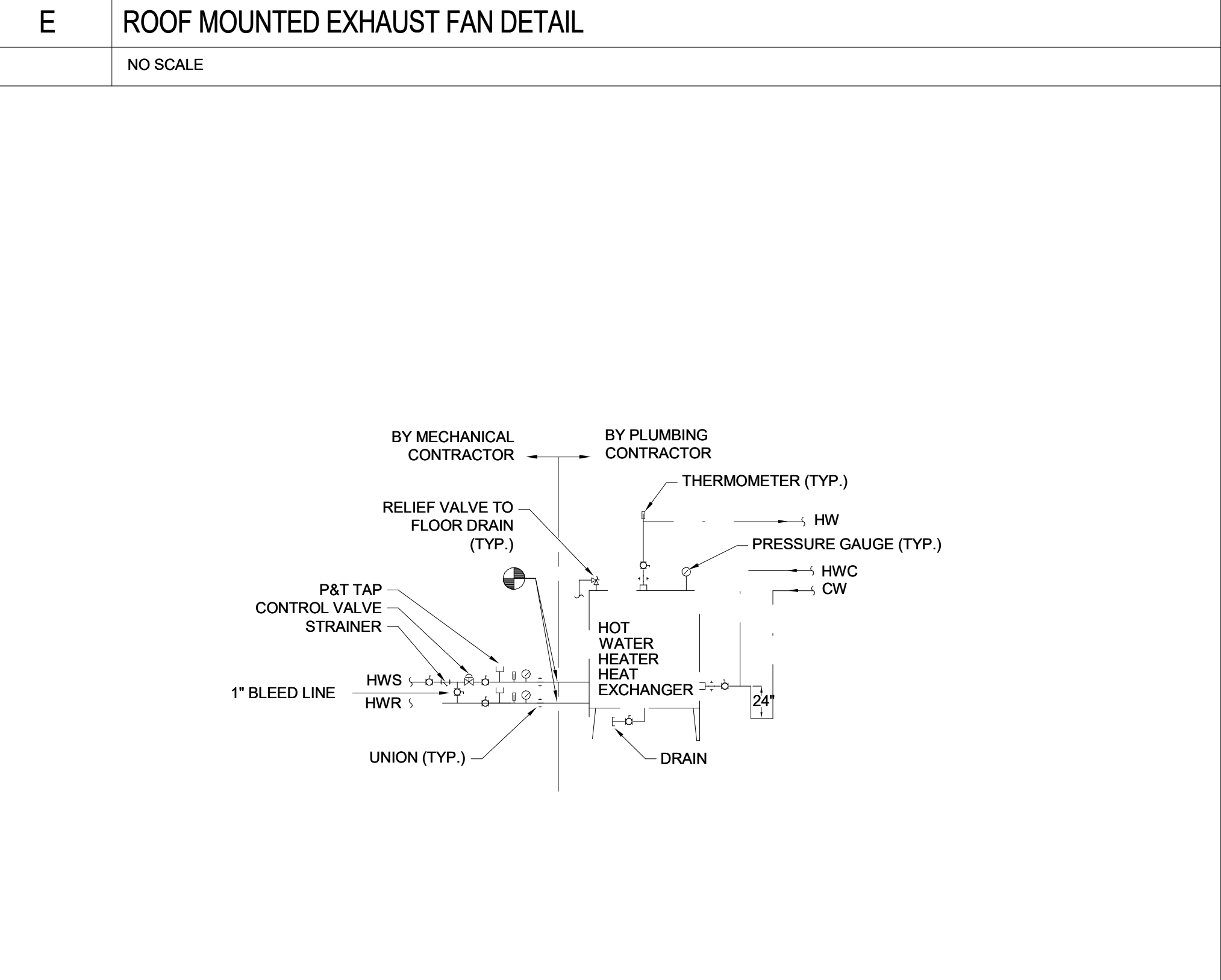
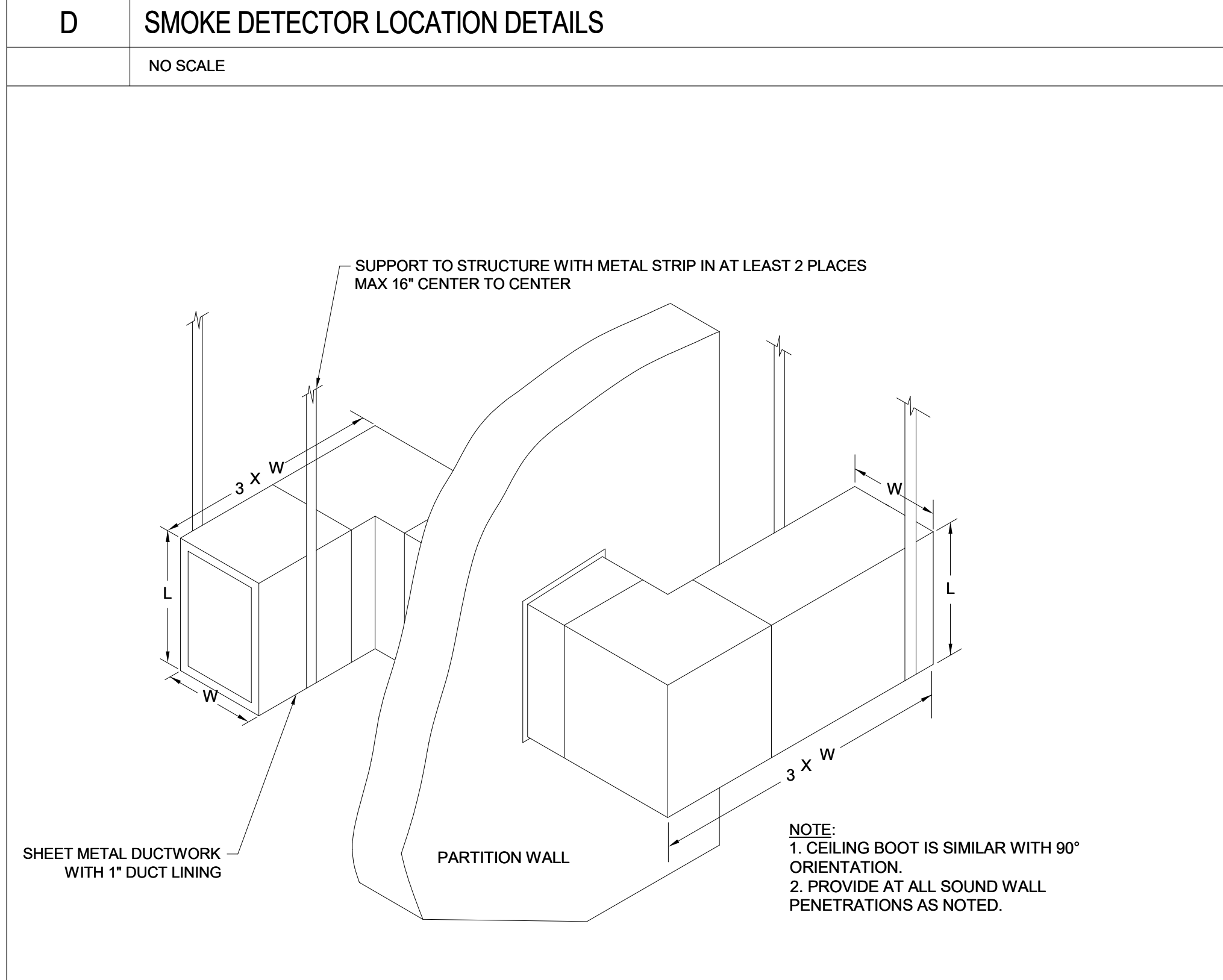
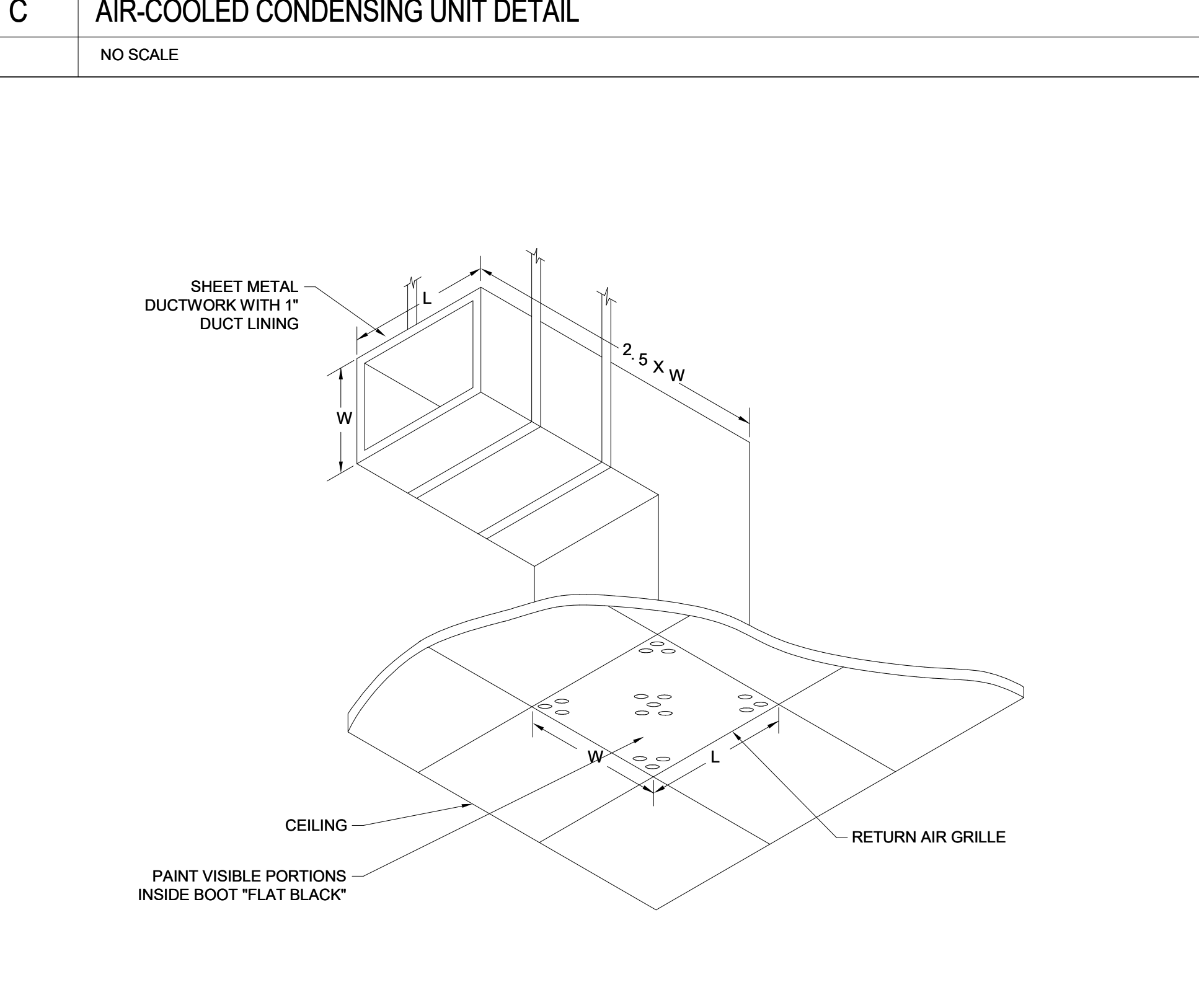
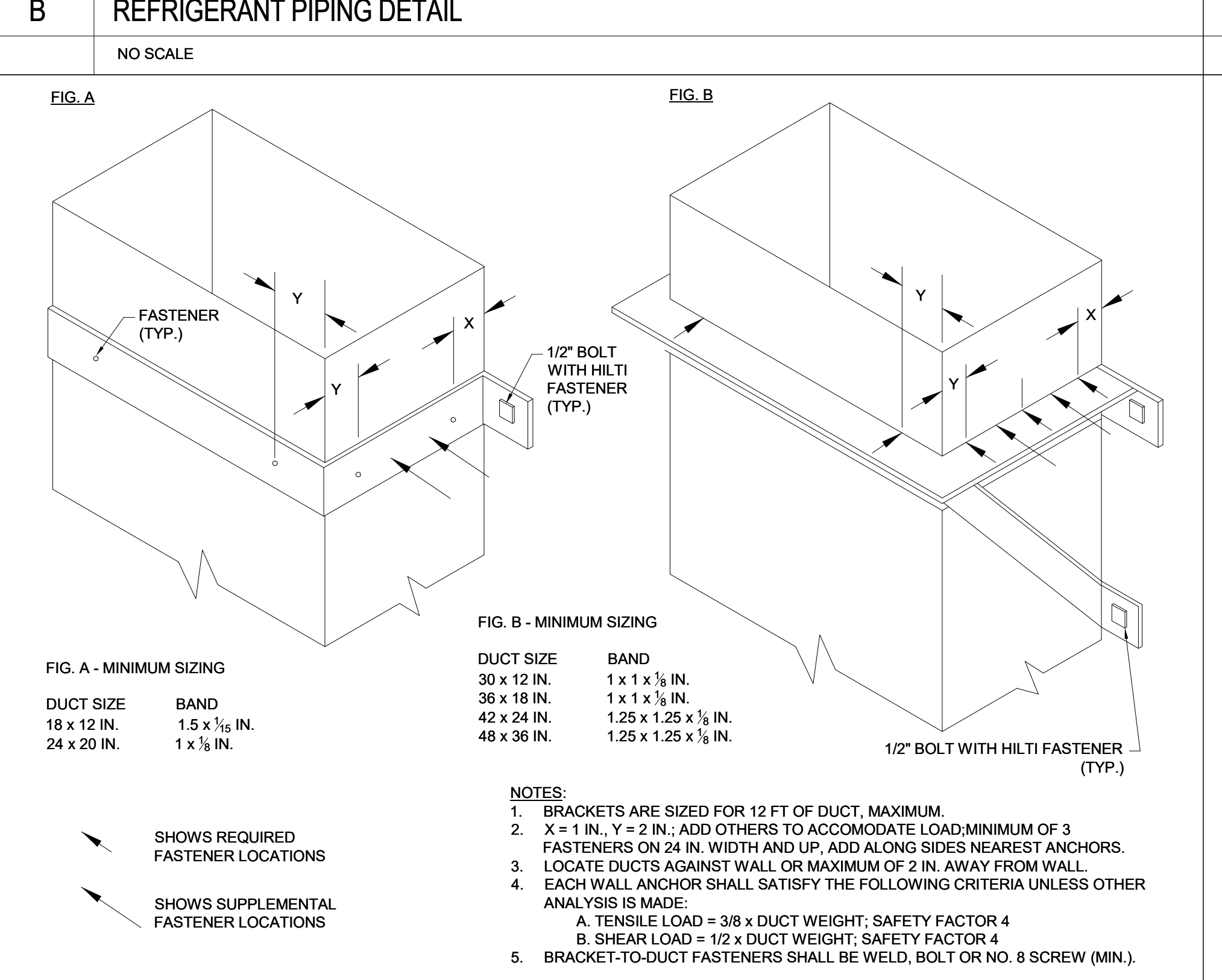
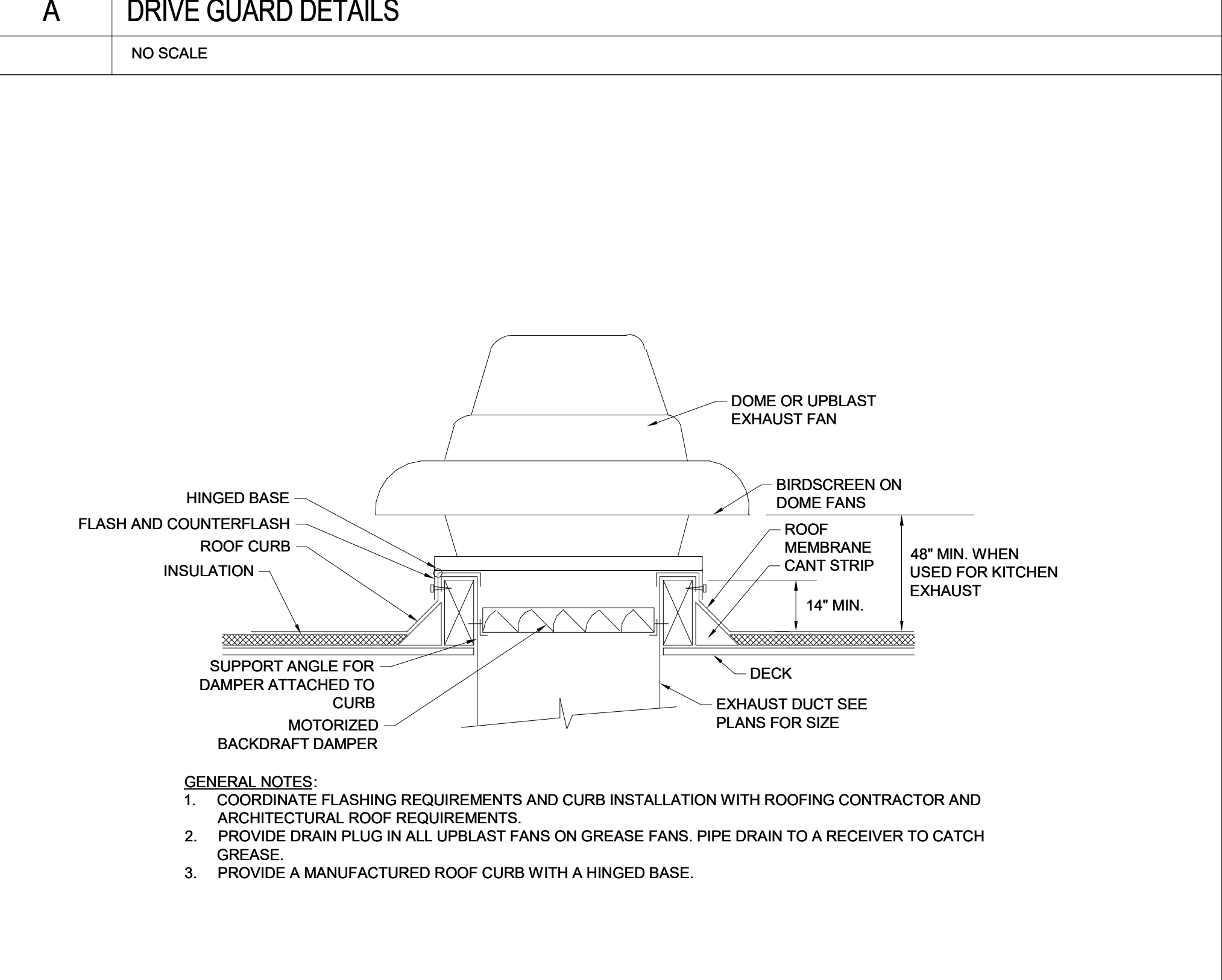
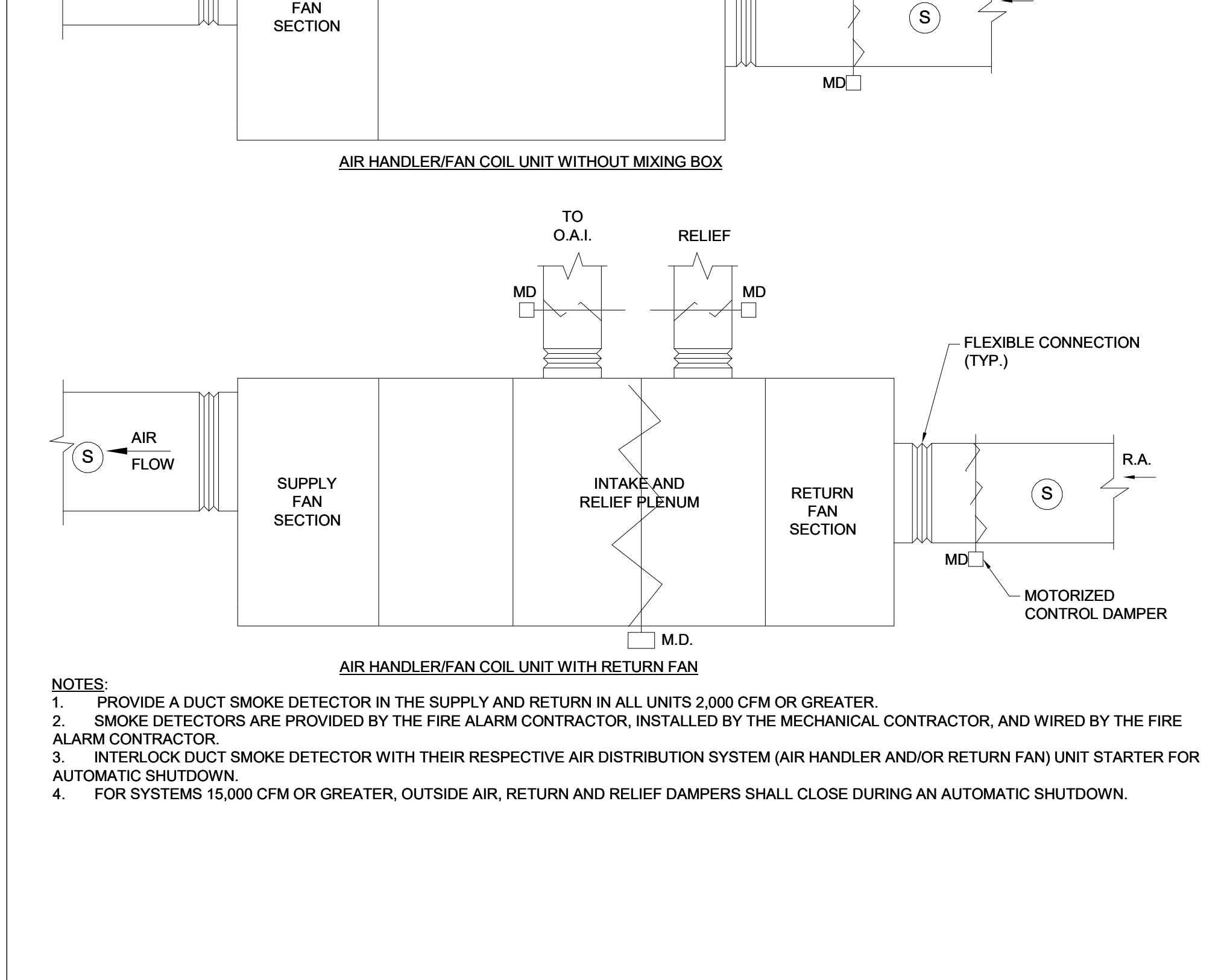
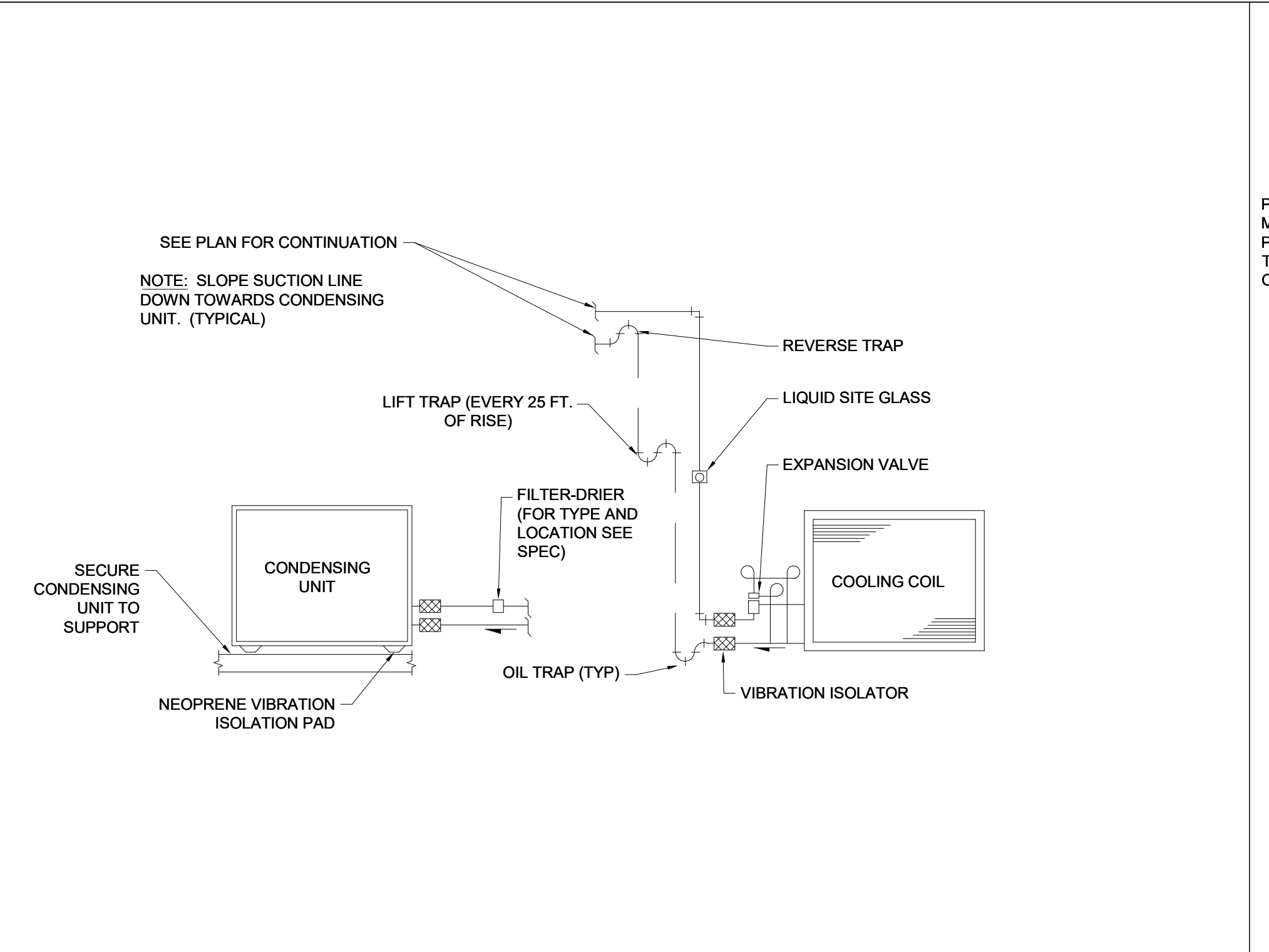
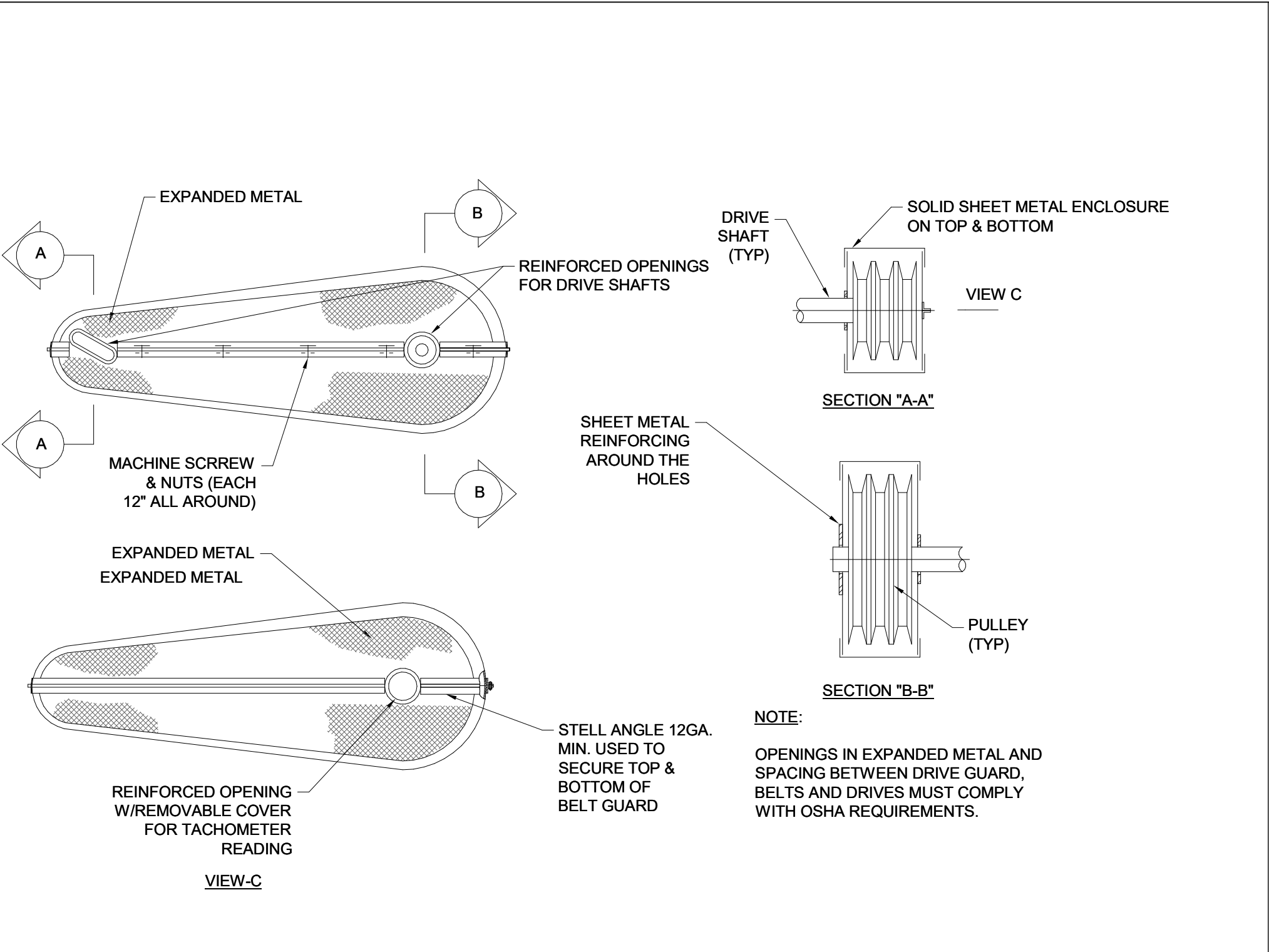
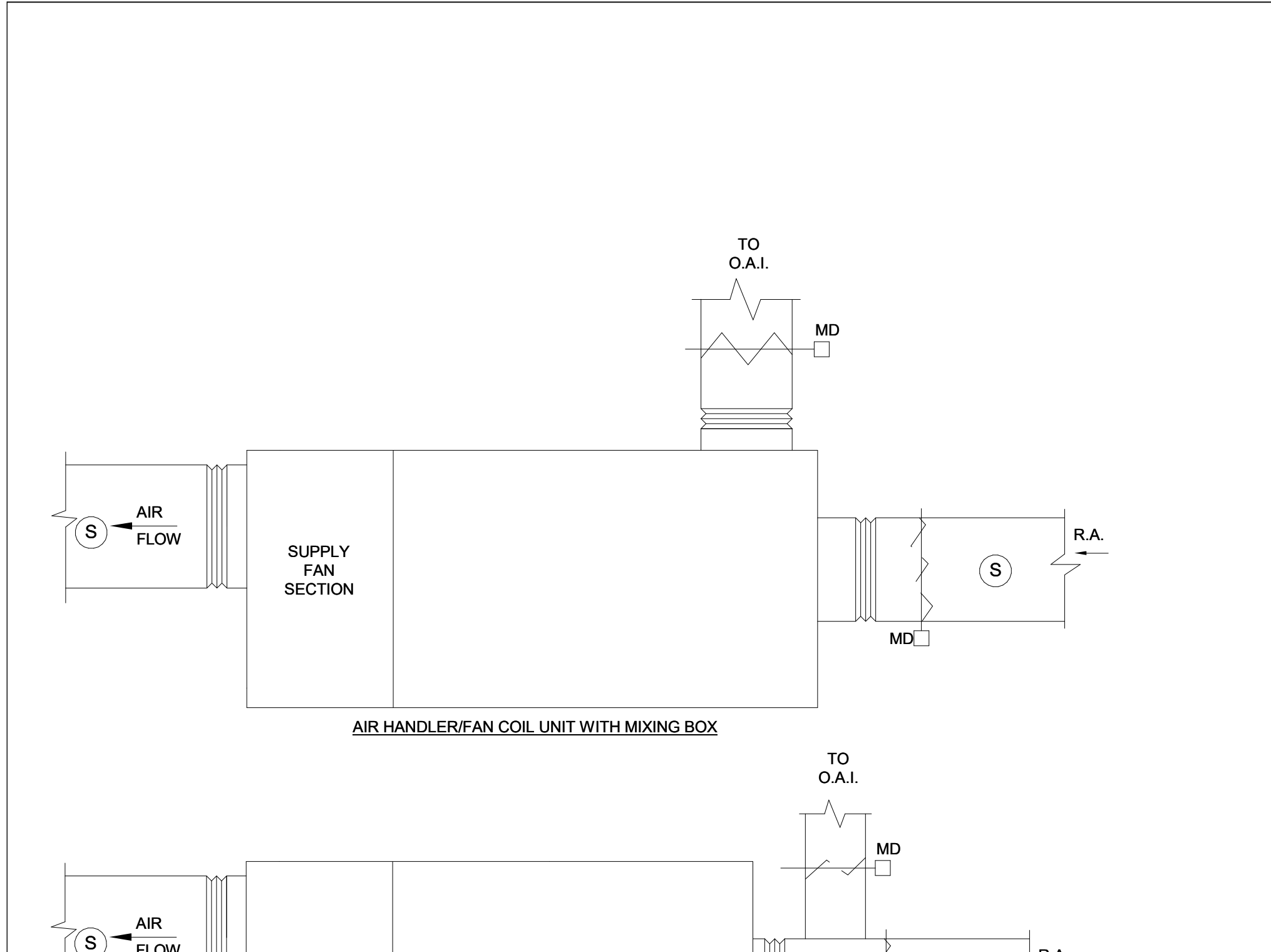


L STEAM COIL PIPING CONNECTIONS DETAIL (NON-FREEZE TYPE)
NO SCALE

L STEAM COIL PIPING CONNECTIONS DETAIL (NON-FREEZE TYPE)
NO SCALE

LB/HR	0-62	63-150	150-440	441-1750	1750-3000
PIPE SIZE	1-1/4"	1-1/2"	2"	3"	4"

LB/HR	0-36	37-85	86-125	126-235	236-660	661-1400	1401-4000	4001-8500	8501-15,500	15,501-25,000
PIPE SIZE	1"	1-1/4"	1 1/2"	2"	3"	4"	6"	8"	10"	12"



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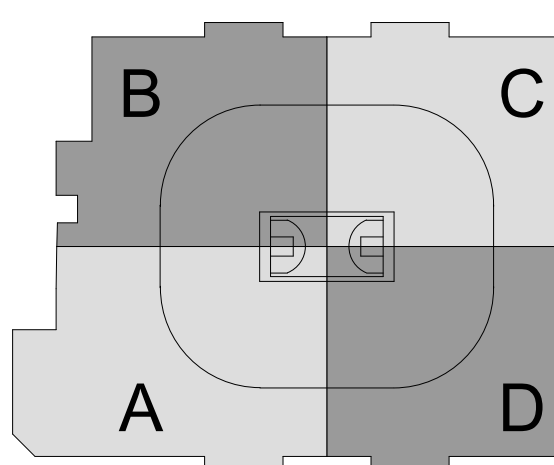
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DWG TITLE: MECHANICAL DETAILS V - PHASE 2
SCALE: 1/8" = 1'-0"
PROJ. NO: 1605
M-704.PH2



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1	REVISED FOR 75% SD	12/1/20

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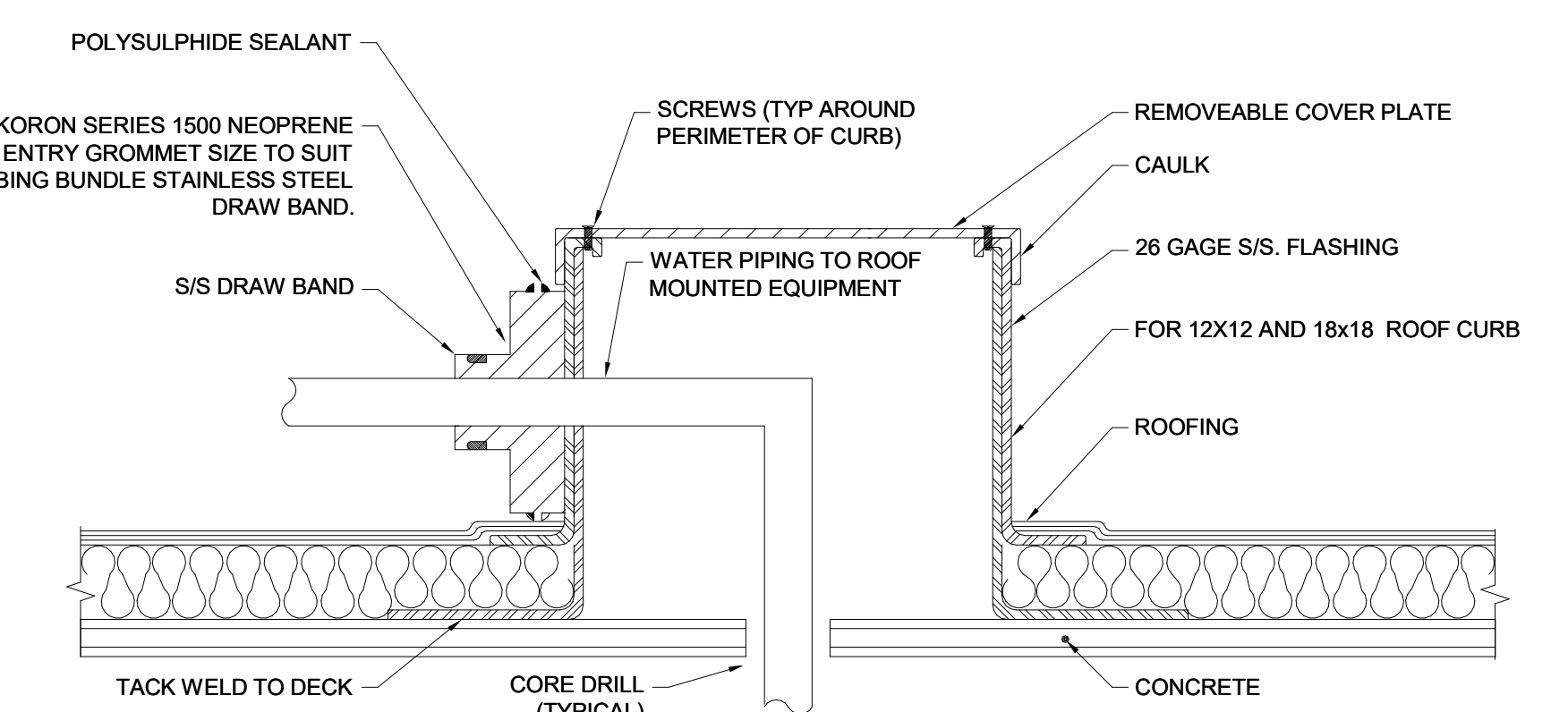
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HARTFORD, CT

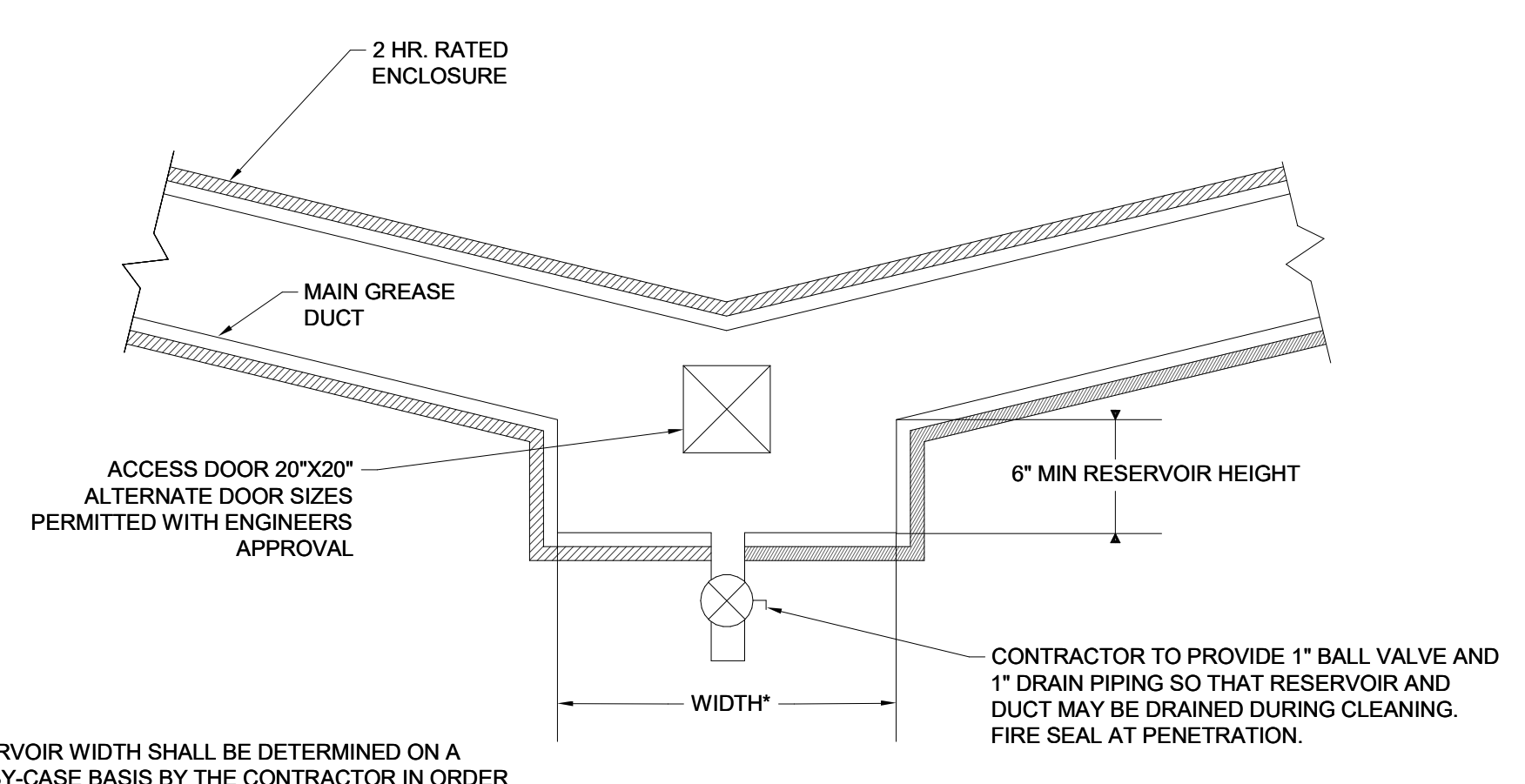
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MECHANICAL DETAILS VI -
PHASE 2

SCALE 1/8" = 1'-0"
PROJ. NO. 1605
M-705.PH2



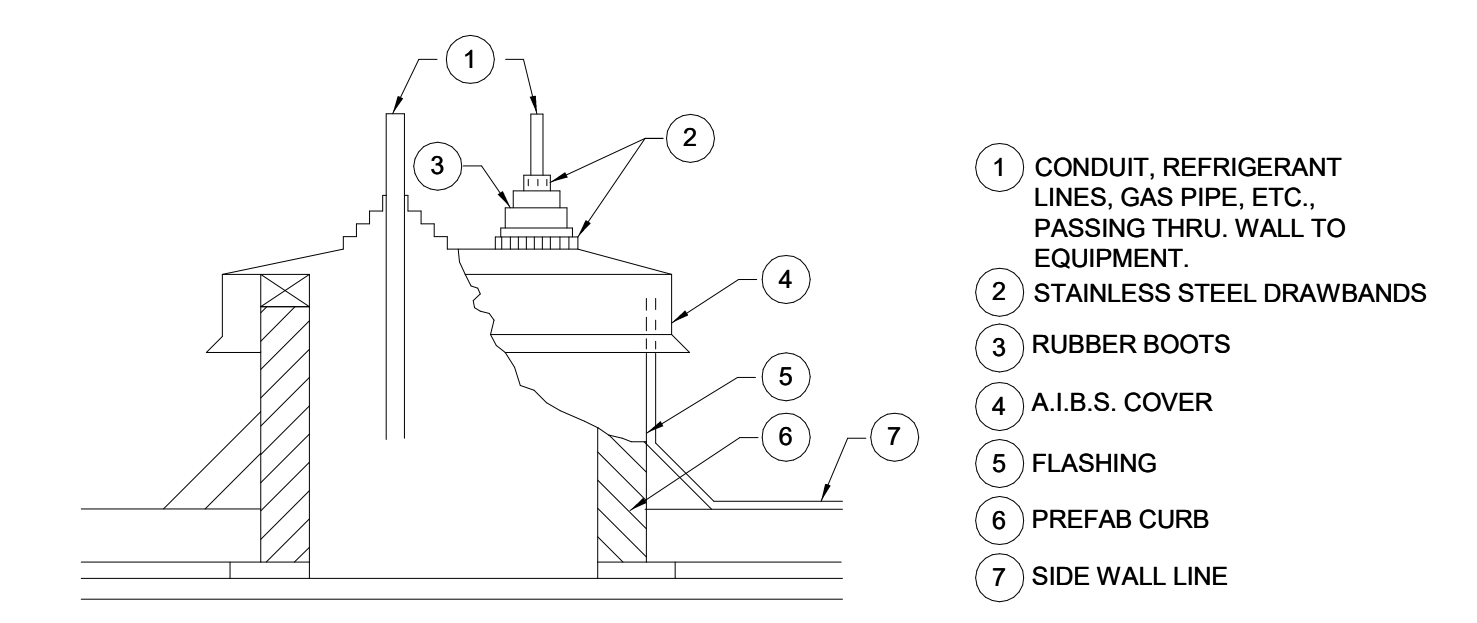
D CURB FOR PIPE PENETRATIONS THROUGH ROOF

NO SCALE



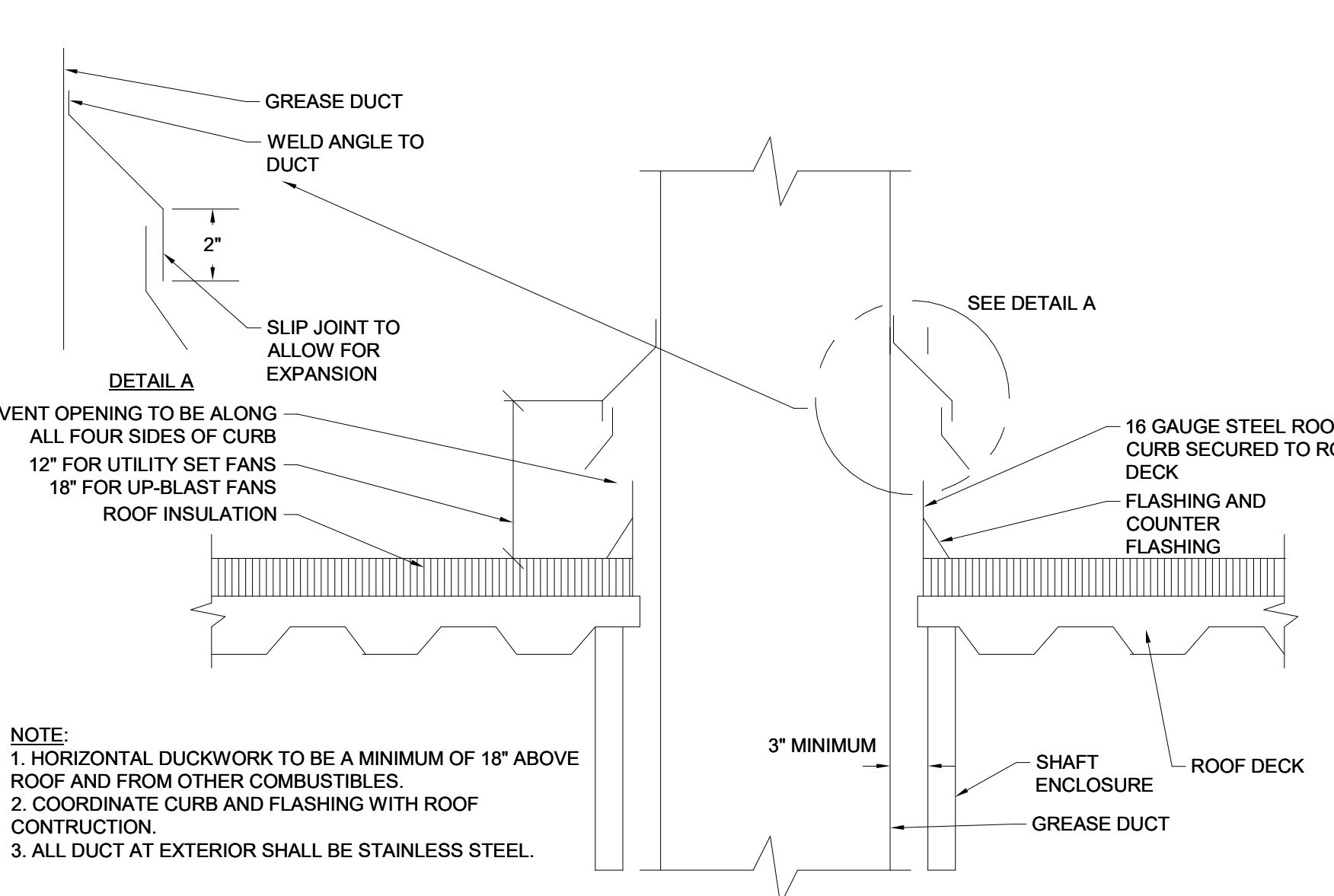
H GREASE DUCT RESERVOIR DETAIL

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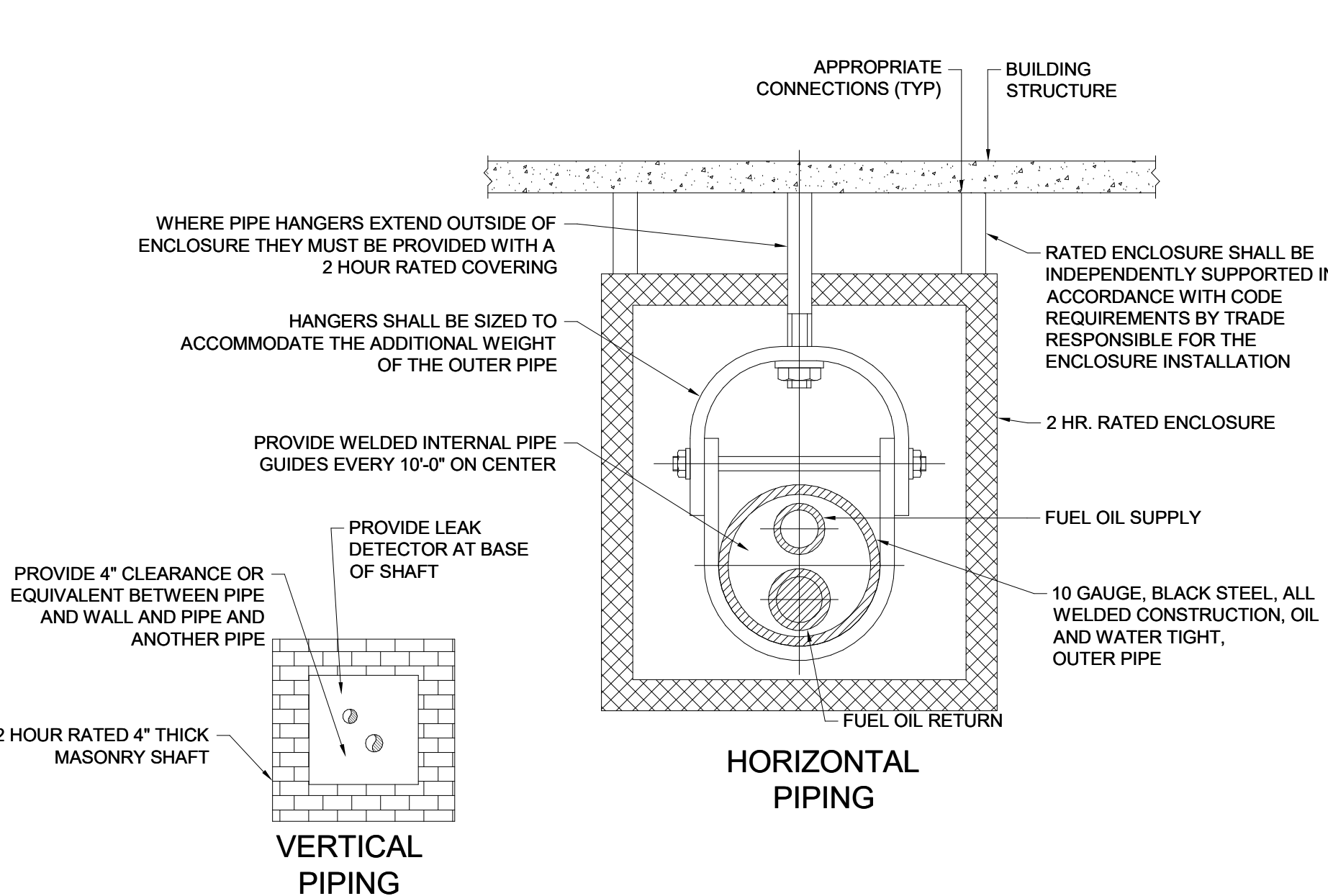
C ROOF CURB FOR REFRIGERANT, GAS, AND CONDUIT PENETRATIONS

NO SCALE



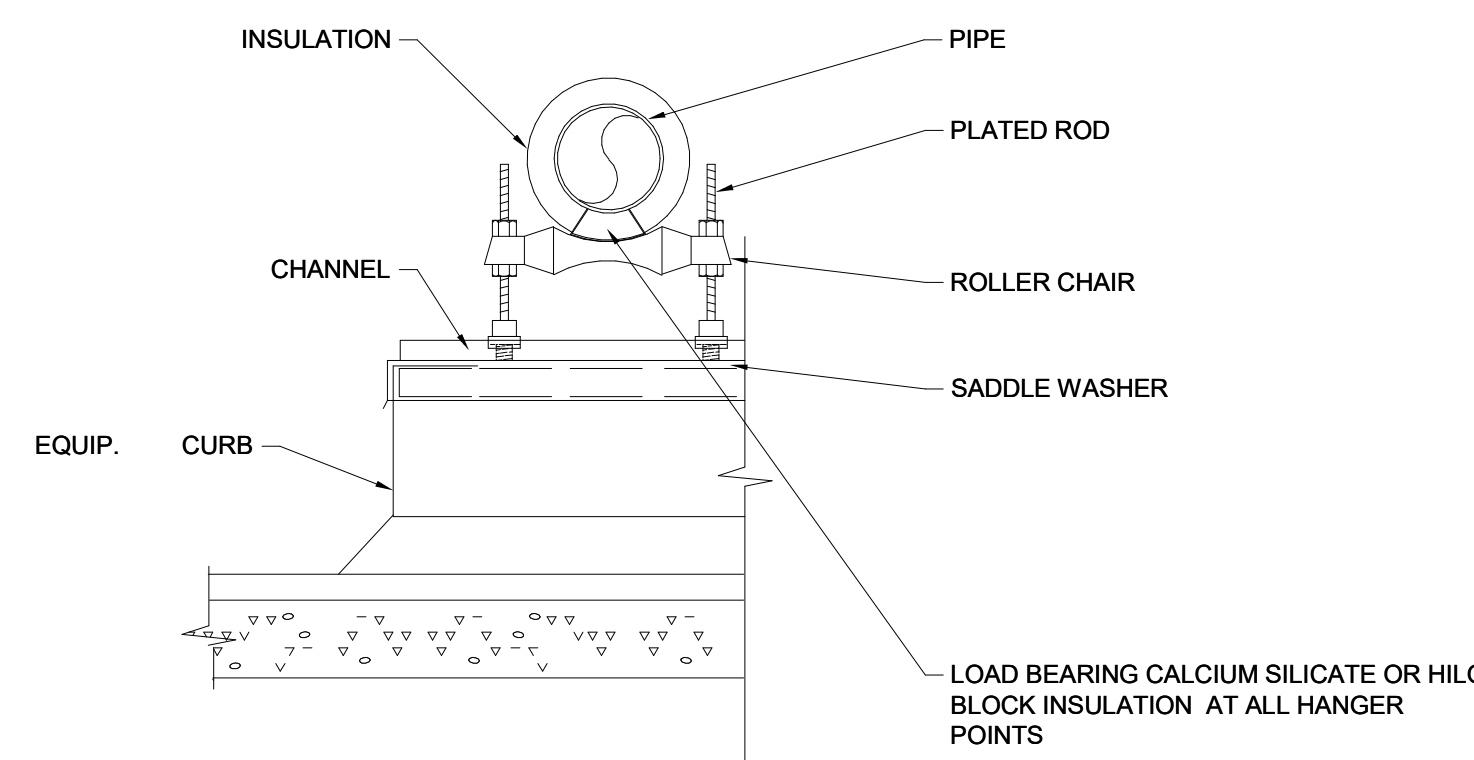
G GREASE DUCT THROUGH ROOF DETAIL

NO SCALE



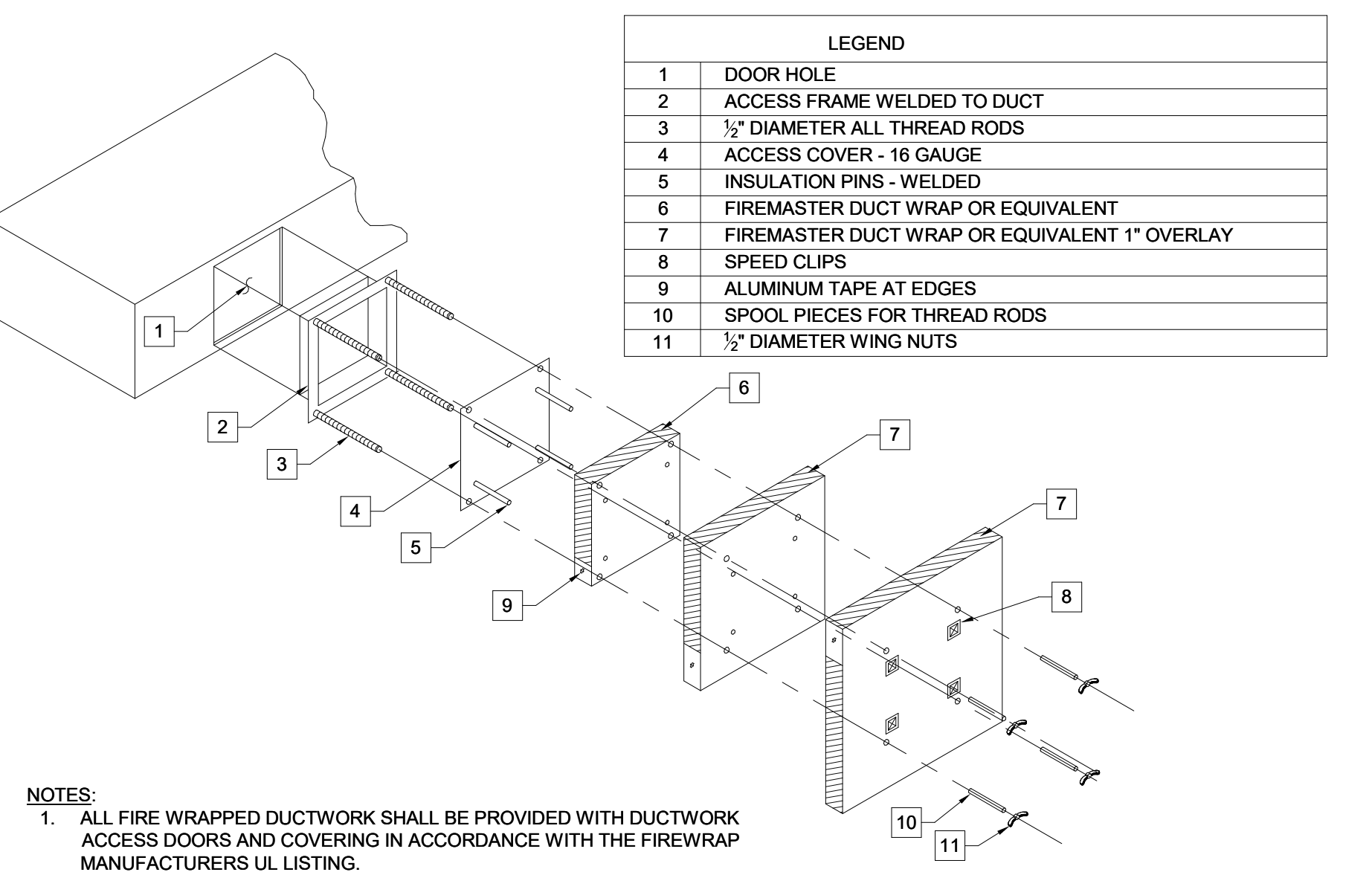
K FUEL OIL PIPE ENCLOSURE DETAIL

NO SCALE



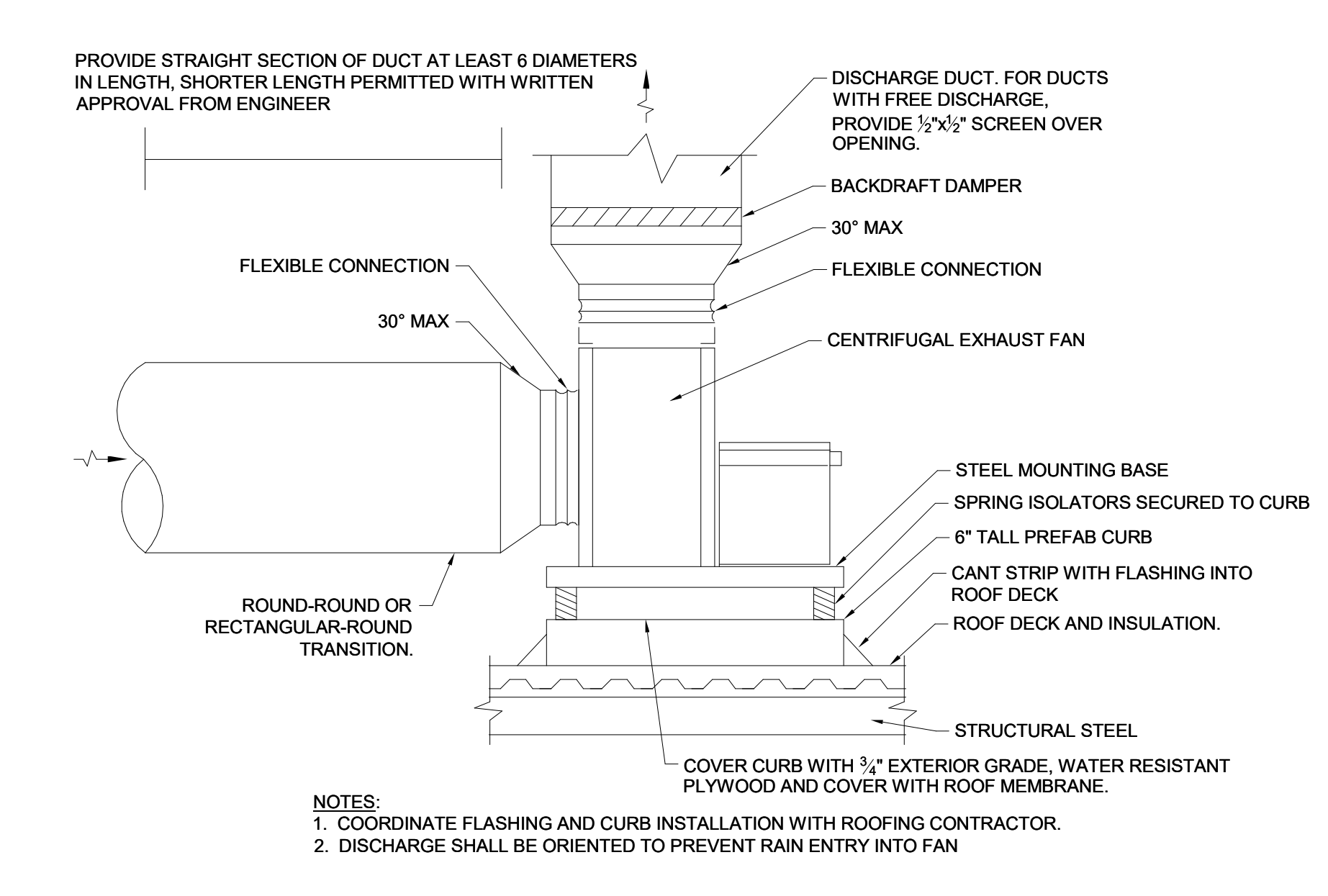
B ROOF PIPE SUPPORT

NO SCALE



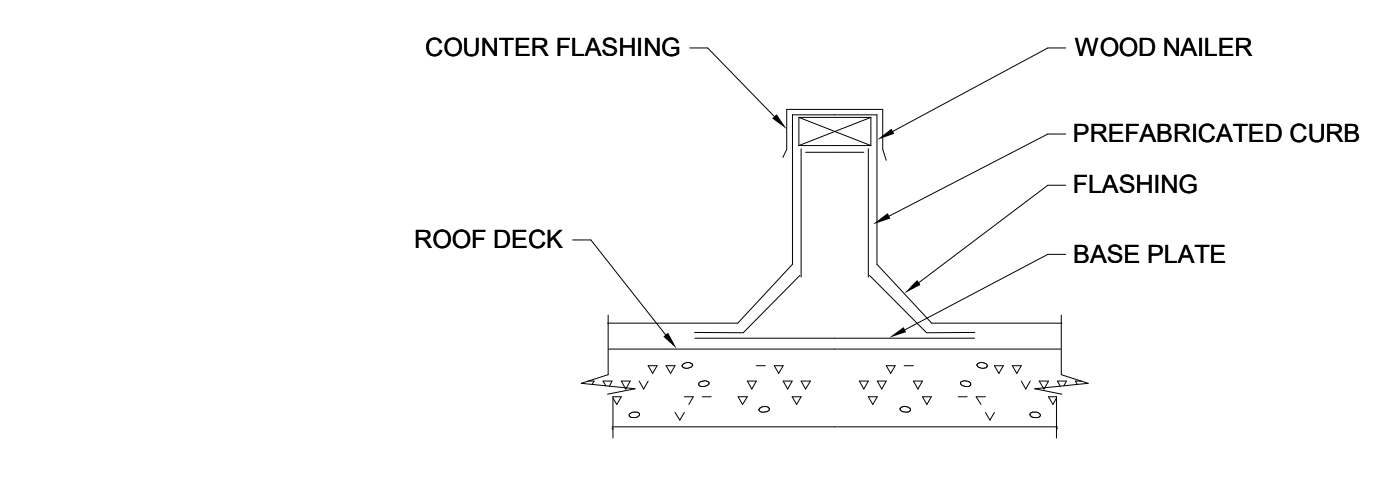
F GREASE DUCT ACCESS DOOR ENCLOSURE INSTALLATION

NO SCALE



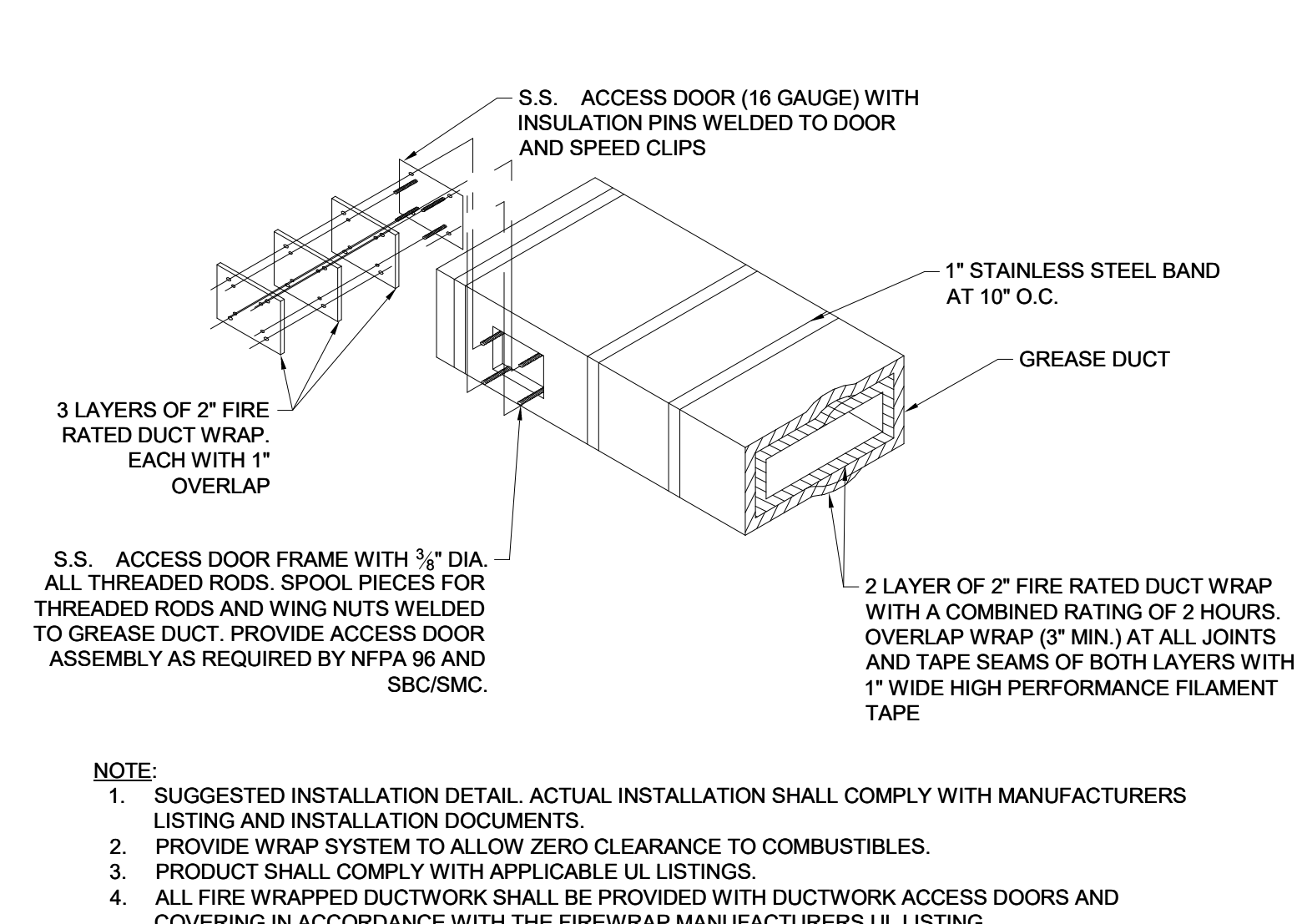
J ROOF MOUNTED CENTRIFUGAL FAN DETAIL

NO SCALE



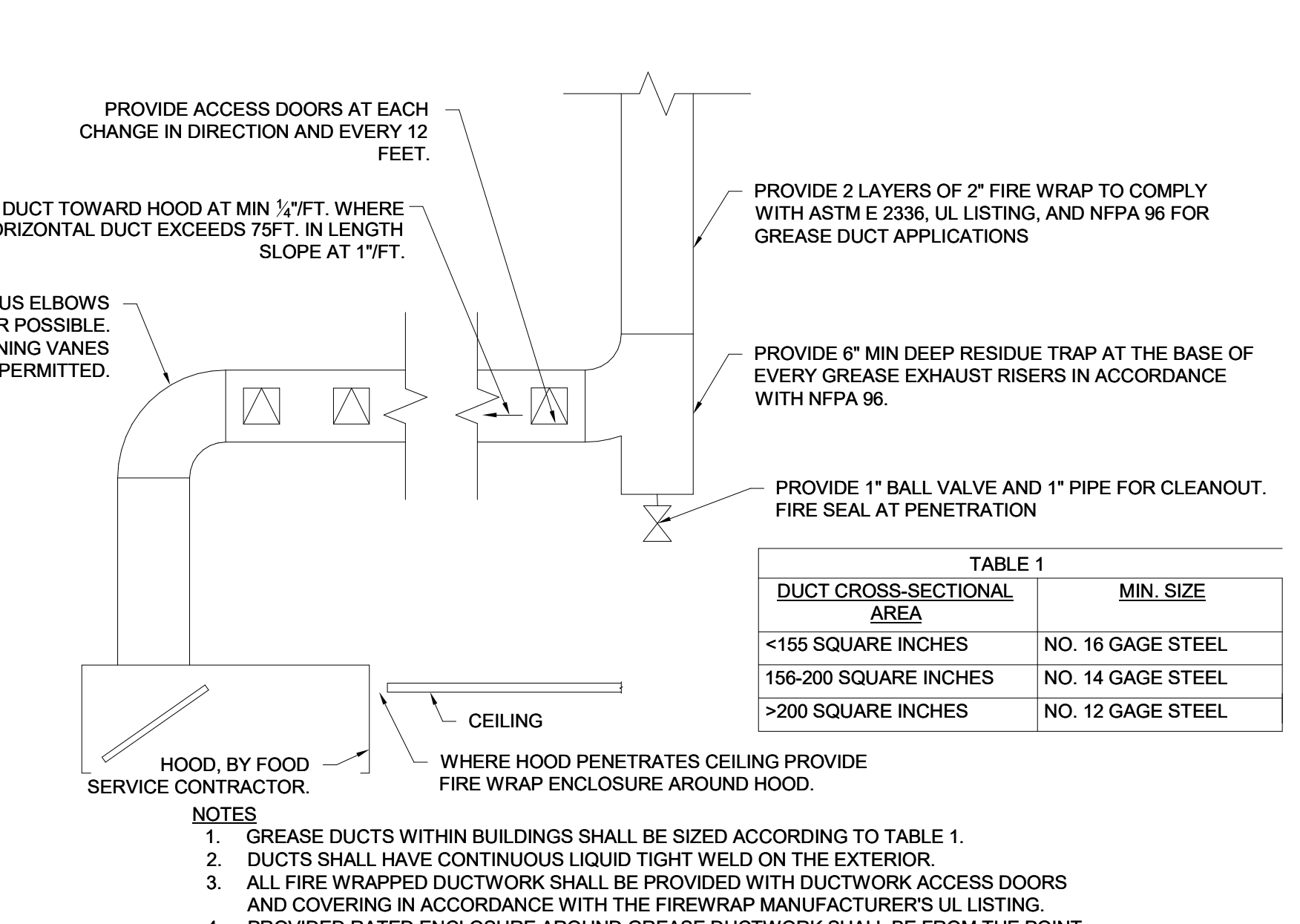
A FLASHED ROOF EQUIPMENT CURB

NO SCALE



E GREASE DUCT 2 HR. RATED WRAP AND ACCESS DOOR DETAIL

NO SCALE



I GREASE DUCT DETAIL

NO SCALE

* RESERVOIR WIDTH SHALL BE DETERMINED ON A CASE-BY-CASE BASIS BY THE CONTRACTOR IN ORDER TO PERMIT 5 GALLON STORAGE CAPACITY PER RESERVOIR. CONTRACTOR SHALL PROVIDE DATA USED FOR SIZING TO ENGINEER FOR REVIEW.

NOTES:
1. PROVIDE GREASE RESERVOIR AT LOW POINTS OF LONG DUCT RUNS PER UMC 507. LOCATE RESERVOIR IN ACCESSIBLE LOCATION.
2. RESERVOIR TO BE FULL DEPTH INTO THE PAPER OF DUCT.

NOTE:
1. HORIZONTAL DUCTWORK TO BE A MINIMUM OF 18" ABOVE ROOF AND FROM OTHER COMBUSTIBLES.
2. COORDINATE CURB AND FLASHING WITH ROOF CONSTRUCTION.
3. ALL DUCT AT EXTERIOR SHALL BE STAINLESS STEEL.

NOTES:
1. ALL FIRE WRAPPED DUCTWORK SHALL BE PROVIDED WITH DUCTWORK ACCESS DOORS AND COVERING IN ACCORDANCE WITH THE FIREWRAP MANUFACTURERS UL LISTING.

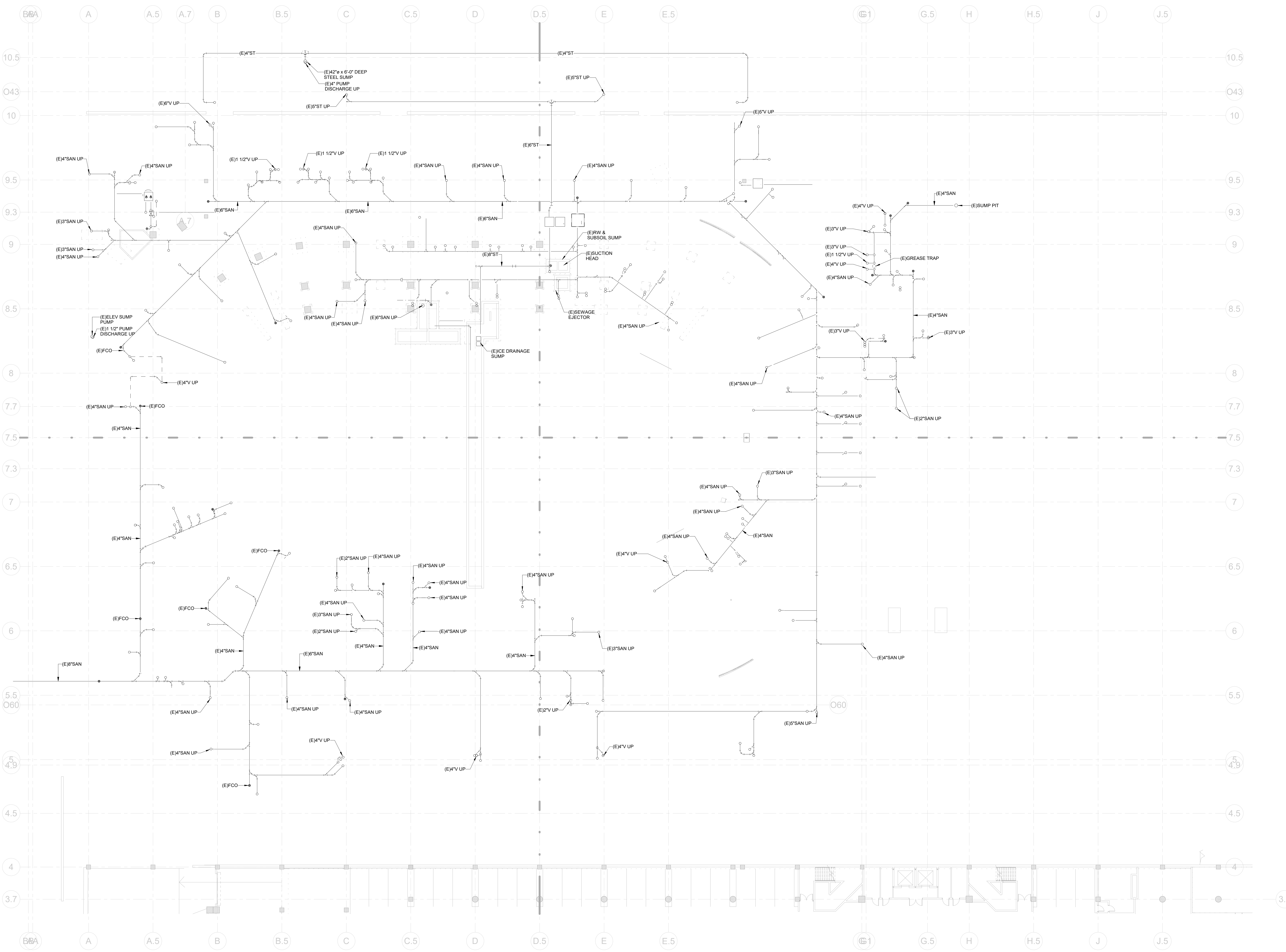
NOTE:
1. SUGGESTED INSTALLATION DETAIL. ACTUAL INSTALLATION SHALL COMPLY WITH MANUFACTURERS LISTING AND INSTALLATION DOCUMENTS.
2. PROVIDE WRAP SYSTEM TO ALLOW ZERO CLEARANCE TO COMBUSTIBLES.
3. PRODUCT SHALL COMPLY WITH APPLICABLE UL LISTINGS.
4. ALL FIRE WRAPPED DUCTWORK SHALL BE PROVIDED WITH DUCTWORK ACCESS DOORS AND COVERING IN ACCORDANCE WITH THE FIREWRAP MANUFACTURERS UL LISTING.

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N - NO SCALE

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P - NO SCALE



GENERAL NOTES:

1. EXISTING SYSTEMS INFORMATION IS SHOWN FOR REFERENCE ONLY TO CLARIFY SCOPE. CONTRACTOR SHALL FIELD VERIFY THESE EXISTING CONDITIONS TO CONFIRM THE PRECISE TIE-IN LOCATION FOR NEW WORK.
2. INTERIM RELOCATIONS OF EXISTING SYSTEMS MAY BE REQUIRED TO ACCOMMODATE THE FINAL INDICATED SCOPE IN A STAGED MANNER. CONTRACTOR'S SCOPE SHALL INCLUDE A PHASED APPROACH AND ALL COSTS ASSOCIATED WITH THIS MAKE-READY WORK. REFER TO ARCHITECTURAL PHASING PLANS.
3. DEMOLITION TO OCCUR ONLY WHEN SPACES ARE NOT OCCUPIED.
4. THE CONTRACTOR SHALL FREEZE ANY AND ALL PIPING THAT DOES NOT HAVE A POSITIVE SHUT DOWN OR OPERATING EXISTING VALVE.
5. PROVIDE VALVES AND CAPS AND TAGS FOR ALL BRANCH CONNECTIONS TO MAINS WHERE BRANCH PIPING HAS BEEN DEMOLISHED.
6. DEMO ALL CW, HW, SAN, VENT AND ALL ASSOCIATED PIPING, FITTINGS FROM FIXTURES TO BE REMOVED BACK TO MAINS. TRACE PIPING TO BE REMOVED AND VERIFY PIPING DOES NOT SERVE OTHER FIXTURES TO REMAIN. VERIFY EXISTING CONNECTIONS IN FIELD, VALVE AND CAP ALL OPEN PIPE ENDS.
7. MAINTAIN ALL PIPING CONNECTIONS TO FIXTURES TO REMAIN.
8. REMOVAL OF EXISTING WALLS MAY REVEAL VENT PIPING SERVING FIXTURES ON THE FLOORS BELOW. CONTRACTORS BASE BID SHALL INCLUDE RELOCATION OF ALL SUCH PIPING AND EXTEND TO NEAREST VENT MAIN.
9. COORDINATION DRAWINGS SHALL BE PREPARED TO ENSURE ROUTING AVOIDS CONFLICTS WITH NEW AND EXISTING WORK. CONTRACTOR SHALL COORDINATE WITH ALL OTHER TRADES.
10. ALL WORK AFFECTING BUILDING SYSTEM OPERATION SHALL BE COORDINATED WITH BUILDING ENGINEERING.



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KEYNOTES

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REVISIONS/ ISSUES

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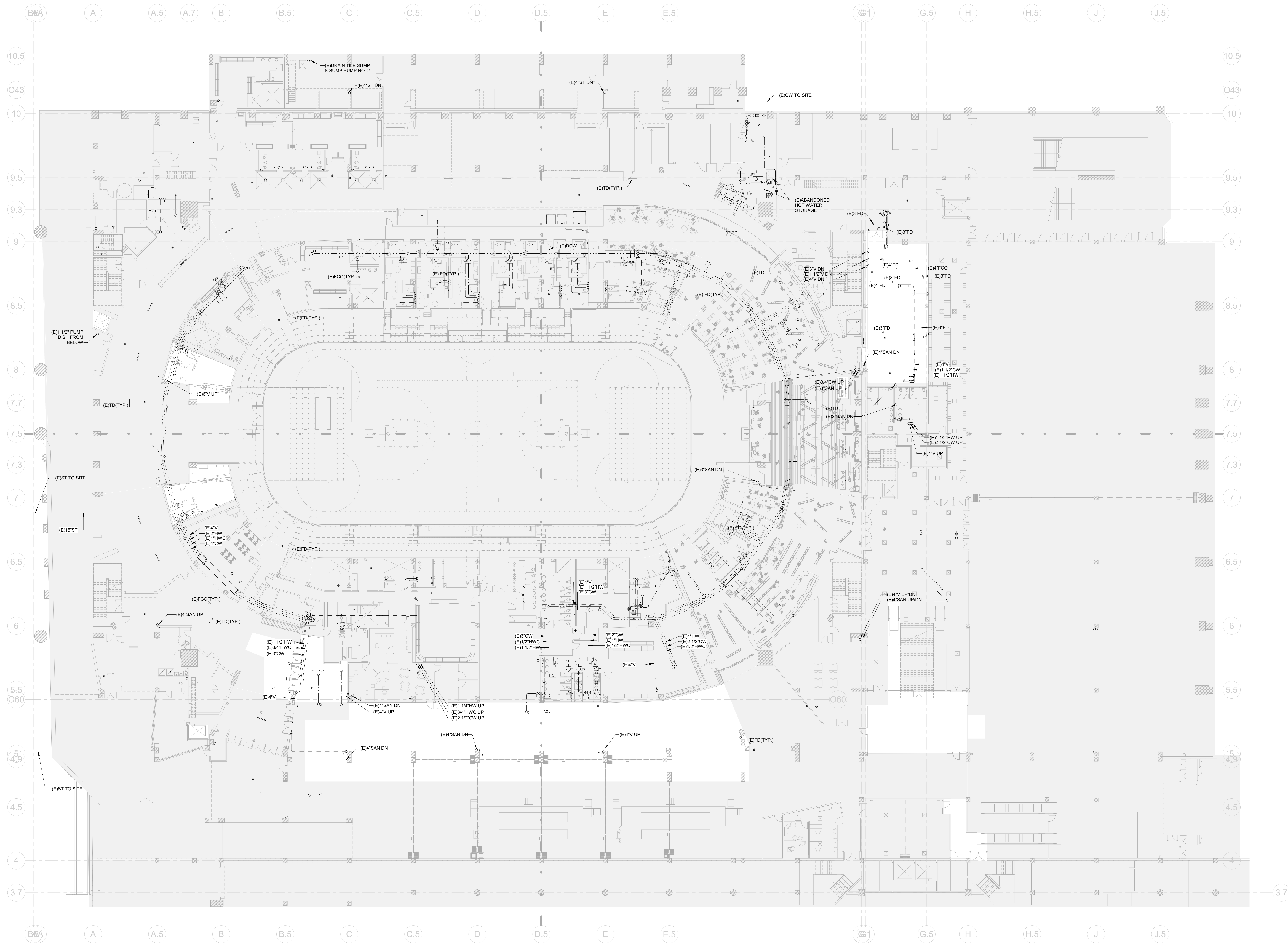
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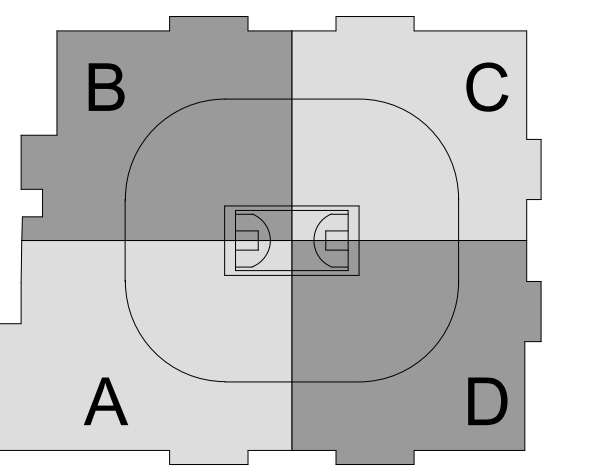
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HARTFORD, CT

DRWG. TITLE
UNDERGROUND - PLUMBING DEMOLITION PHASE 2

SCALE: 1/16" = 1'-0"
PRD: NO. 1605
DRWG. NO. P-100.PH2



- GENERAL NOTES:**
- EXISTING SYSTEMS INFORMATION IS SHOWN FOR REFERENCE ONLY TO CLARIFY SCOPE. CONTRACTOR SHALL FIELD VERIFY THESE EXISTING CONDITIONS TO CONFIRM THE PRECISE TIE-IN LOCATION FOR NEW WORK.
 - INTERIM RELOCATIONS OF EXISTING SYSTEMS MAY BE REQUIRED TO ACCOMMODATE THE FINAL INDICATED SCOPE IN A STAGED MANNER. CONTRACTOR'S SCOPE SHALL INCLUDE A PHASED APPROACH AND ALL COSTS ASSOCIATED WITH THIS MAKE-READY WORK. REFER TO ARCHITECTURAL PHASING PLANS.
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 - MAINTAIN ALL PIPING CONNECTIONS TO FIXTURES TO REMAIN.
 - REMOVAL OF EXISTING WALLS MAY REVEAL VENT PIPING SERVING FIXTURES ON THE FLOORS BELOW. CONTRACTORS BASE BID SHALL INCLUDE RELOCATION OF ALL SUCH PIPING AND EXTEND TO NEAREST VENT MAIN.
 - COORDINATION DRAWINGS SHALL BE PREPARED TO ENSURE ROUTING AVOIDS CONFLICTS WITH NEW AND EXISTING WORK. CONTRACTOR SHALL COORDINATE WITH ALL OTHER TRADES.
 - ALL WORK AFFECTING BUILDING SYSTEM OPERATION SHALL BE COORDINATED WITH BUILDING ENGINEERING.



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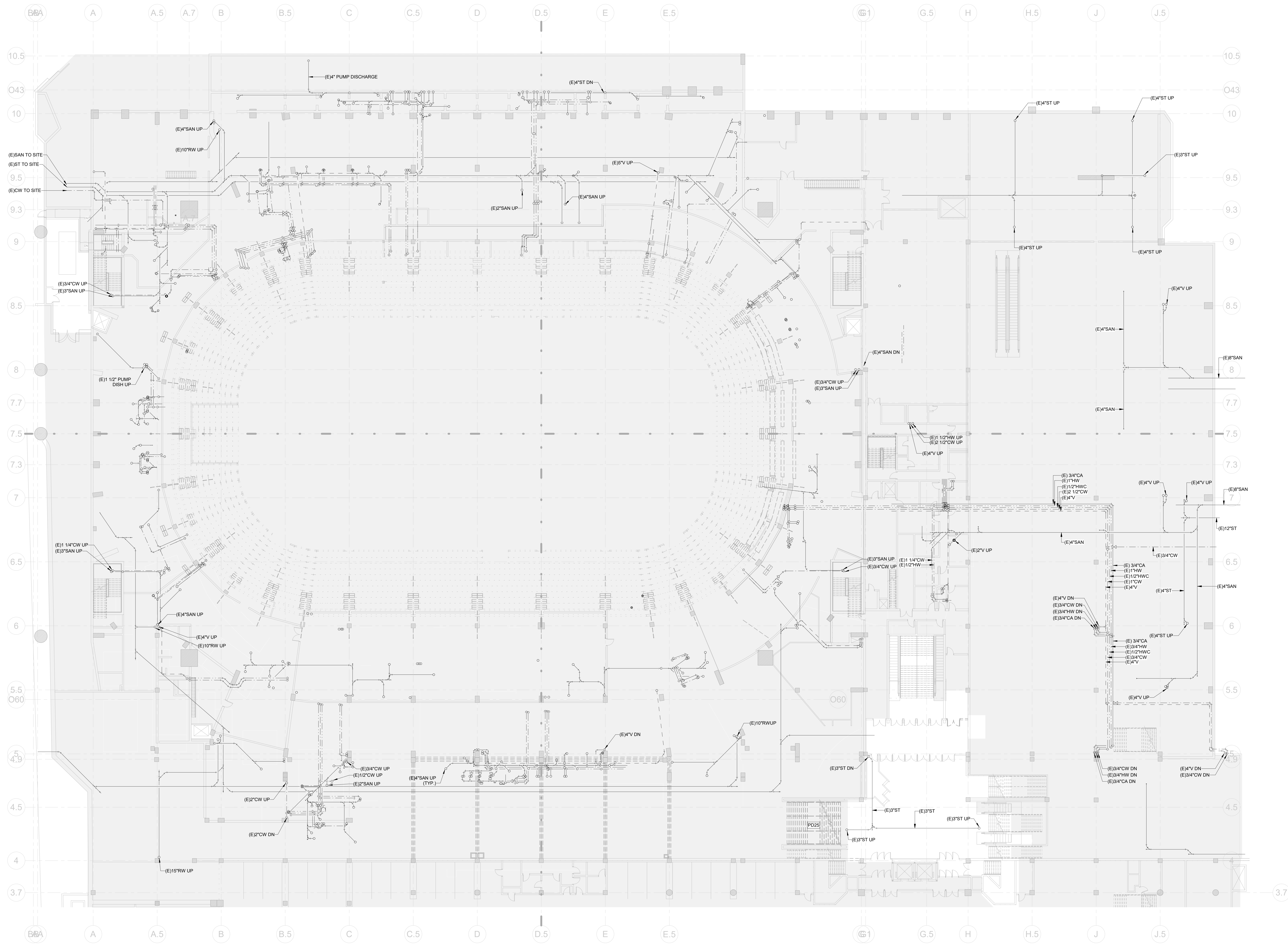
1 CIVIC CENTER PLAZA
HARTFORD, CT

DWG. TITLE
LEVEL 31 - PLUMBING DEMOLITION PHASE 2

SCALE
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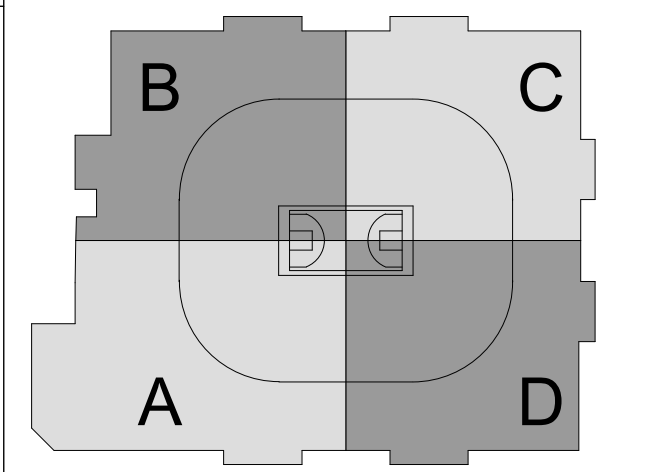
DWG. NO.
1605

P-101.PH2



GENERAL NOTES:

- EXISTING SYSTEMS INFORMATION IS SHOWN FOR REFERENCE ONLY TO CLARIFY SCOPE. CONTRACTOR SHALL FIELD VERIFY THESE EXISTING CONDITIONS TO CONFIRM THE PRECISE TIE-IN LOCATION FOR NEW WORK.
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- DEMOLITION TO OCCUR ONLY WHEN SPACES ARE NOT OCCUPIED.
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NEW YORK, NY 10018
(212) 447-6770

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KEYNOTES

- PD2 REPLACE ALL PIPING IN THIS AREA TO FACILITATE REMOVAL OF SOUTH EXHIBITION STAIR.

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1	ISSUED FOR TIA 90	10/1/20
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REVISIONS/ ISSUES

CONTRACTOR SHALL CHECK AND VERIFY ALL DIMENSIONS AND REPORT ANY OMISSIONS OR DISCREPANCIES TO THE ARCHITECT BEFORE PROCEEDING WITH THE WORK. DO NOT SCALE THE DRAWINGS.

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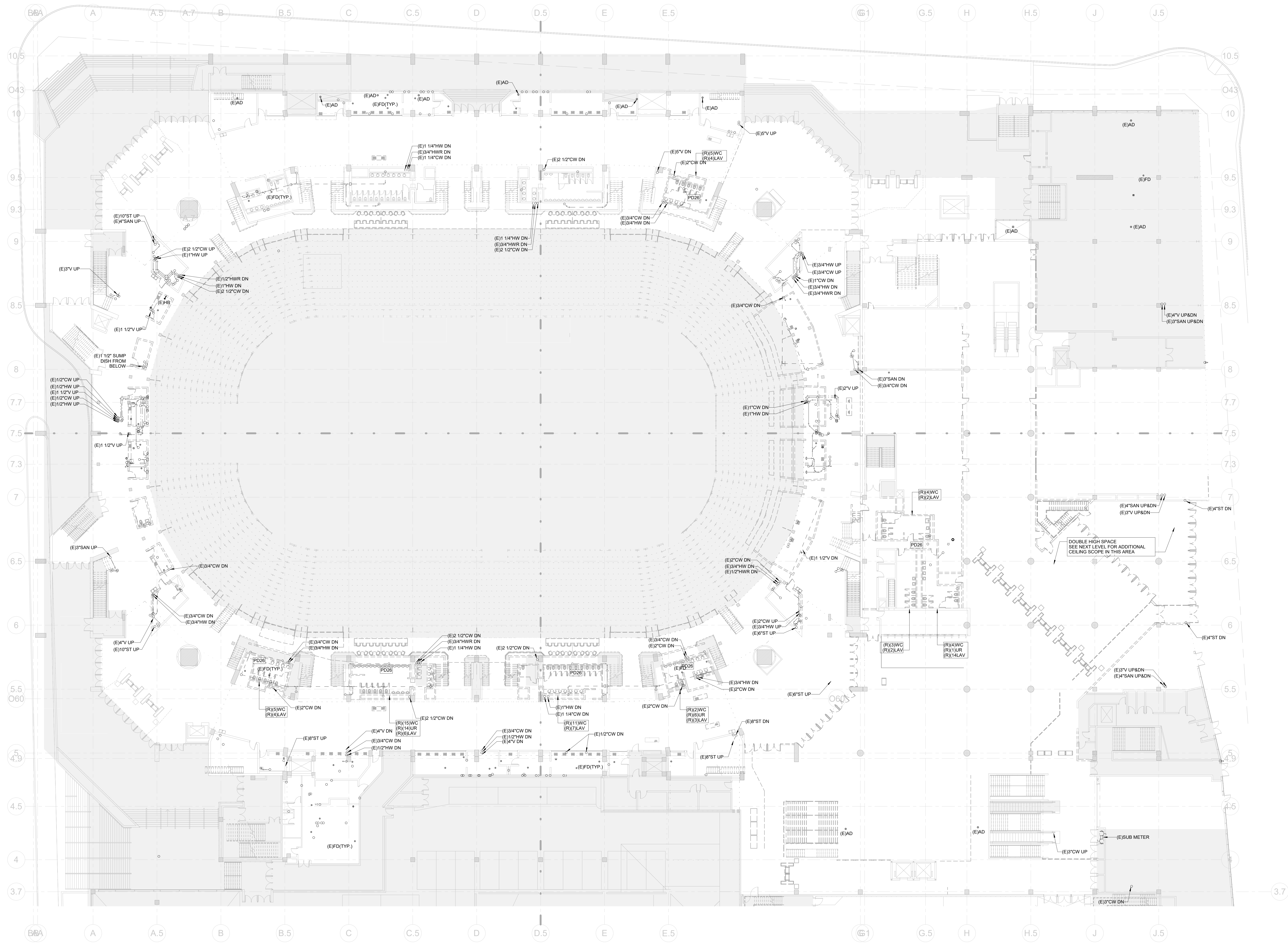
1 CIVIC CENTER PLAZA
HARTFORD, CT

DWG. TITLE
LEVEL 48 - PLUMBING DEMOLITION PHASE 2

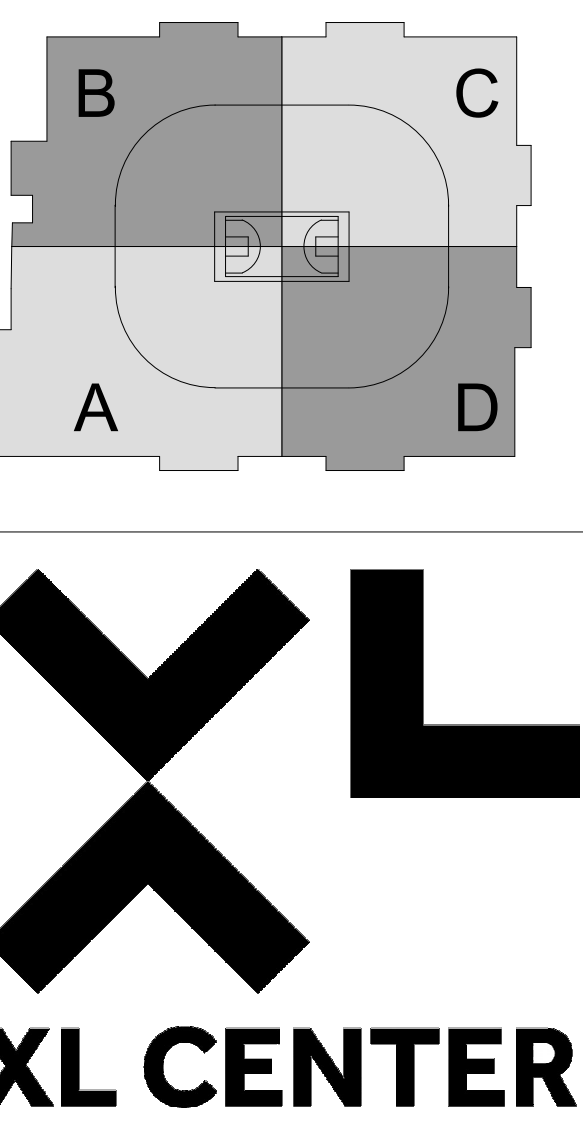
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1/16" = 1'-0"

DWG. NO.
P-102.PH2

PROJ. NO.
1605



- GENERAL NOTES:**
- EXISTING SYSTEMS INFORMATION IS SHOWN FOR REFERENCE ONLY TO CLARIFY SCOPE. CONTRACTOR SHALL FIELD VERIFY THESE EXISTING CONDITIONS TO CONFIRM THE PRECISE TIE-IN LOCATION FOR NEW WORK.
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(212) 447-6770

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CONSTRUCTION**

KEYNOTES

- PO2 DEMOLISH ALL FIXTURES. REMOVE ALL CW, HW, SAN & V PIPING BACK TO MAINS.

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1	ISSUED FOR TIA 90	12/1/20
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REVISIONS/ ISSUES

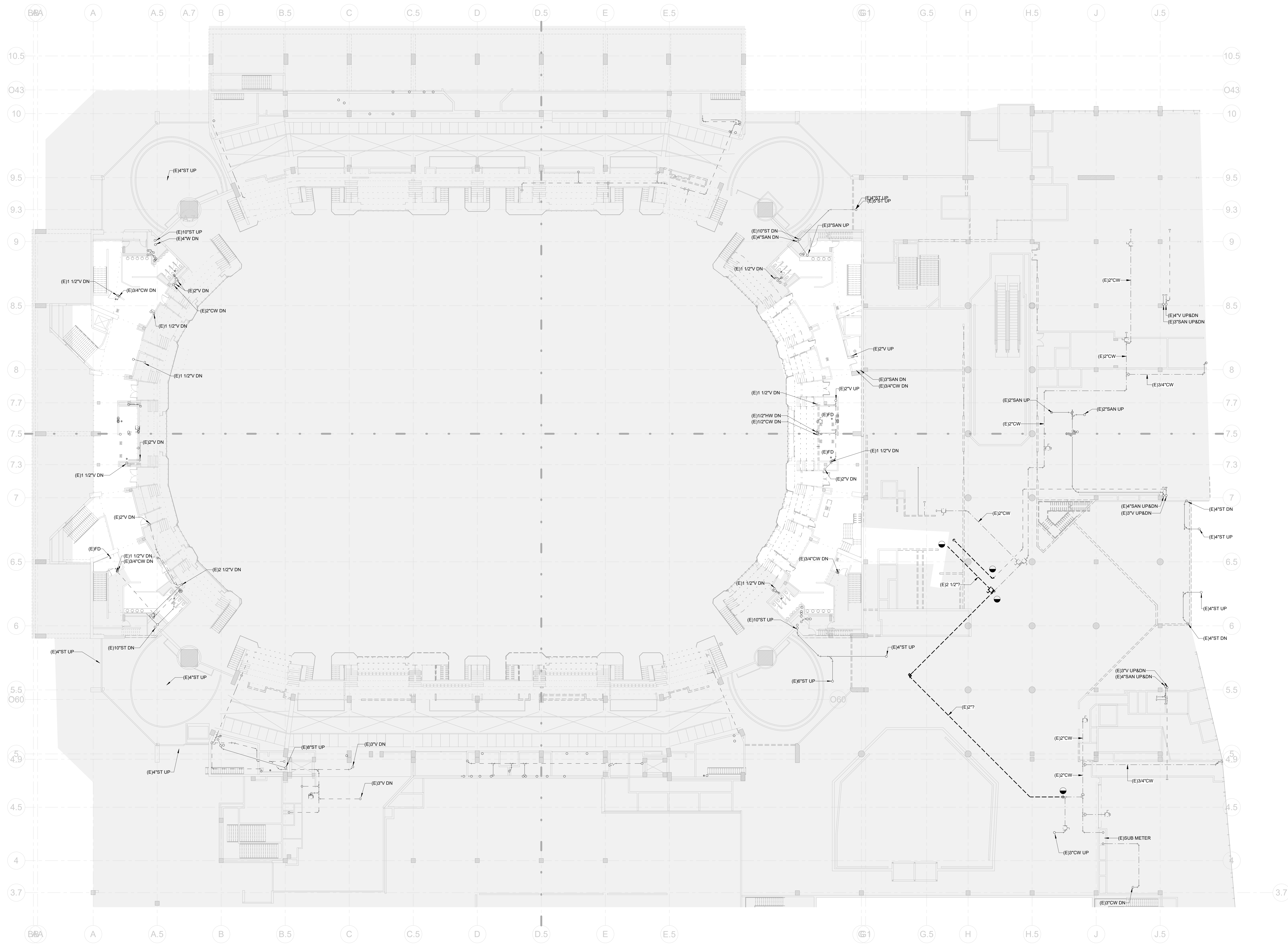
CONTRACTOR SHALL CHECK AND VERIFY ALL DIMENSIONS AND REPORT ANY OMISSIONS OR DISCREPANCIES TO THE ARCHITECT BEFORE PROCEEDING WITH THE WORK. DO NOT SCALE THE DRAWINGS.

SEAL

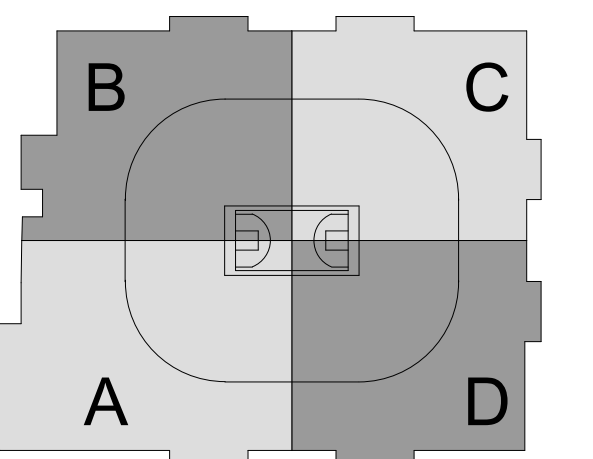
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1 CIVIC CENTER PLAZA
HARTFORD, CT

DWG. TITLE: LEVEL 61 - PLUMBING DEMOLITION PHASE 2
SCALE: 1/16" = 1'-0"
PROJ. NO: 1605
DWG. NO: P-103.PH2



- GENERAL NOTES:**
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KEYNOTES

NO.	DESCRIPTION	DATE
1	ISSUED FOR TIA 90	10/1/20
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REVISIONS/ ISSUES

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SEAL

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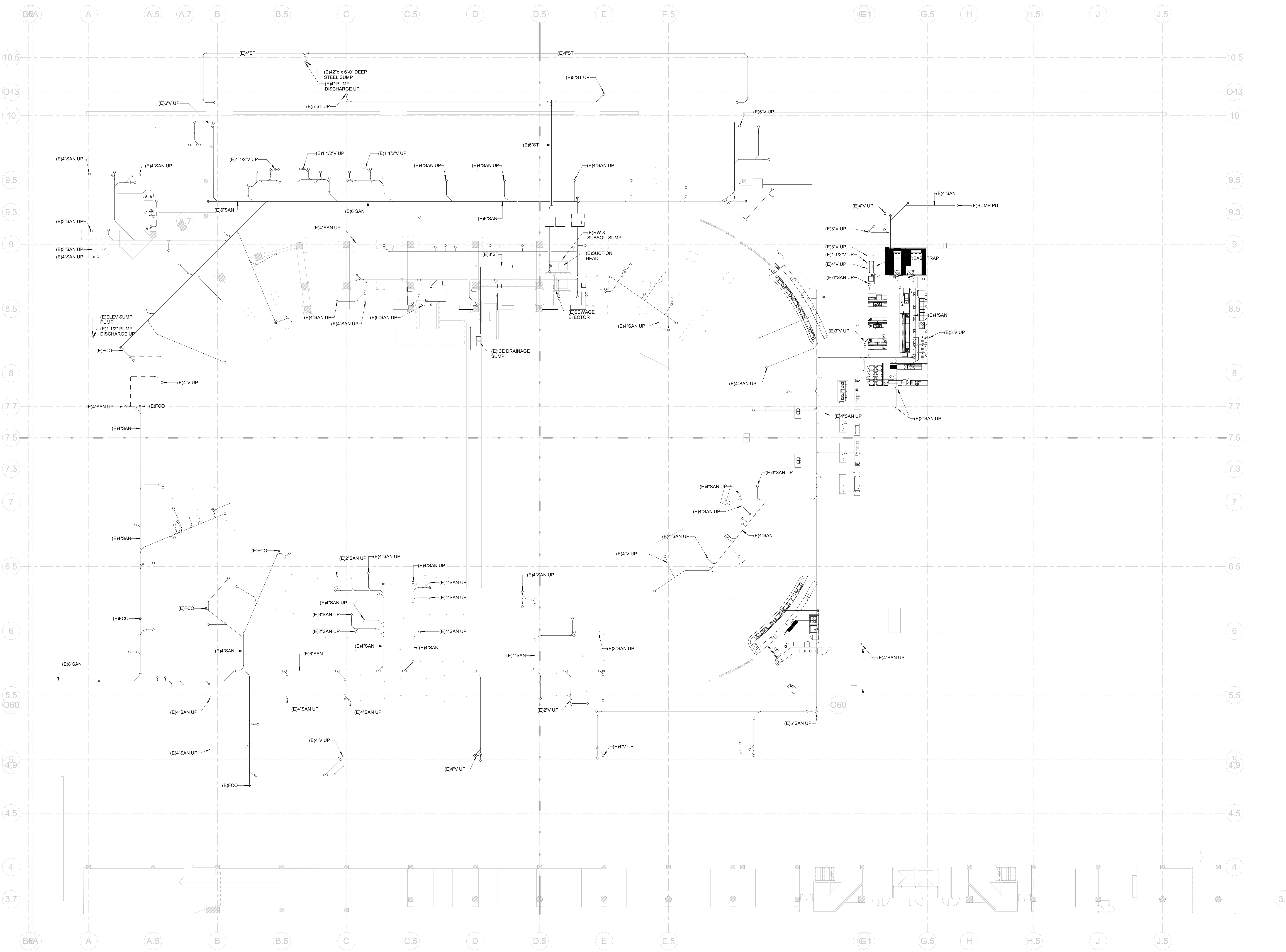
1 CIVIC CENTER PLAZA
HARTFORD, CT

DWG. TITLE
LEVEL 71 - PLUMBING DEMOLITION PHASE 2

SCALE
1/16" = 1'-0"

DWG. NO.
P-104.PH2

PROJ. NO.
1605



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PIPE KEYNOTE LEGEND:

PIPE SYSTEM DESIGNATION (XX)	PIPE KEYNOTE	QUANTITY
HW - HOT WATER	UNDESIGNATED	(1) 1/2"
CW - COLD WATER	UNDESIGNATED	(1) 1/2"
HC - HOT WATER CIRCULATION	UNDESIGNATED	(1) 1/2"
S - SANITARY	UNDESIGNATED	(1) 1/2"
V - VENT	UNDESIGNATED	(1) 1/2"
ST - STORM	UNDESIGNATED	(1) 1/2"
SD - SCHEDULE	UNDESIGNATED	(1) 1/2"
G - GAS	UNDESIGNATED	(1) 1/2"
GW - GREASE WASTE	UNDESIGNATED	(1) 1/2"

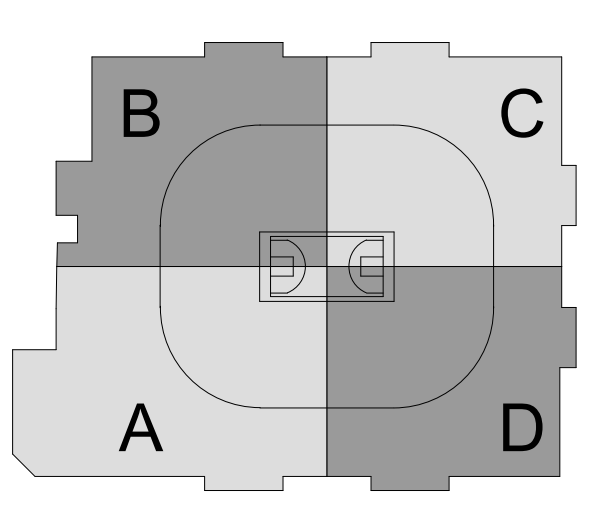
KEYNOTES

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REVISIONS/ ISSUES

NO.	DESCRIPTION	DATE

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HARTFORD, CT

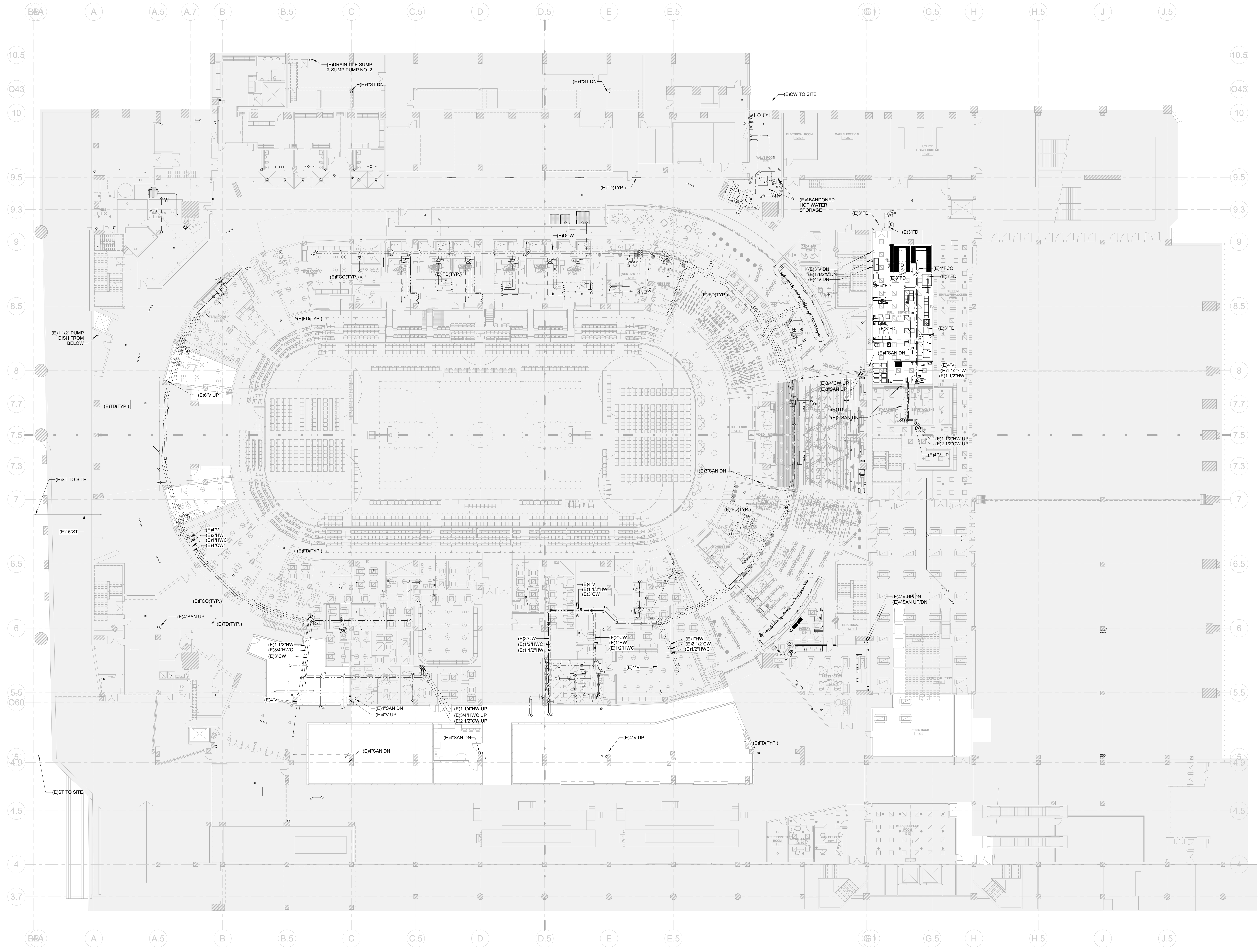
CONTRACTOR SHALL CHECK AND VERIFY ALL DIMENSIONS AND REPORT ANY OMISSIONS OR DISCREPANCIES TO THE ARCHITECT BEFORE PROCEEDING WITH THE WORK.
DO NOT SCALE THE DRAWINGS.

DWG. TITLE
UNDERGROUND - PLUMBING CONSTRUCTION PHASE 2

SCALE
1/16" = 1'-0"

PROJ. NO.
1605

DWG. NO.
P-200.PH2



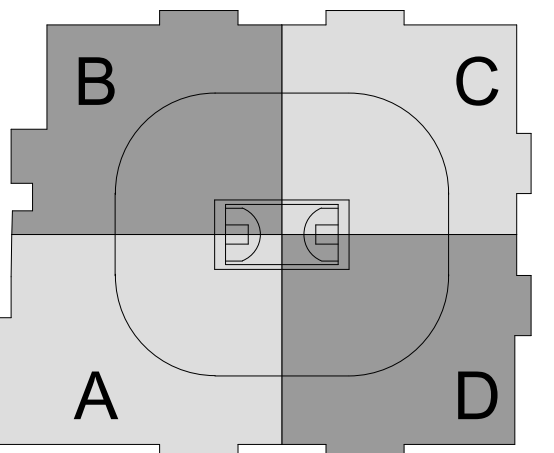
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PIPE KEYNOTE LEGEND:

PIPE SYSTEM DESIGNATION (XX)	PIPE KEYNOTE SUBSTRATE
CW - COLD WATER	HW - HOT WATER
HC - HOT WATER CIRCULATION	S - SANITARY
V - VENT	ST - STORM
GD - GREASE DISPOSAL	G - GAS
DW - GREASE WASTE	

KEYNOTES

NO.	DESCRIPTION	DATE
1	ISSUED FOR TIA 90	12/1/20



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(212) 447-6770

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REVISIONS/ ISSUES

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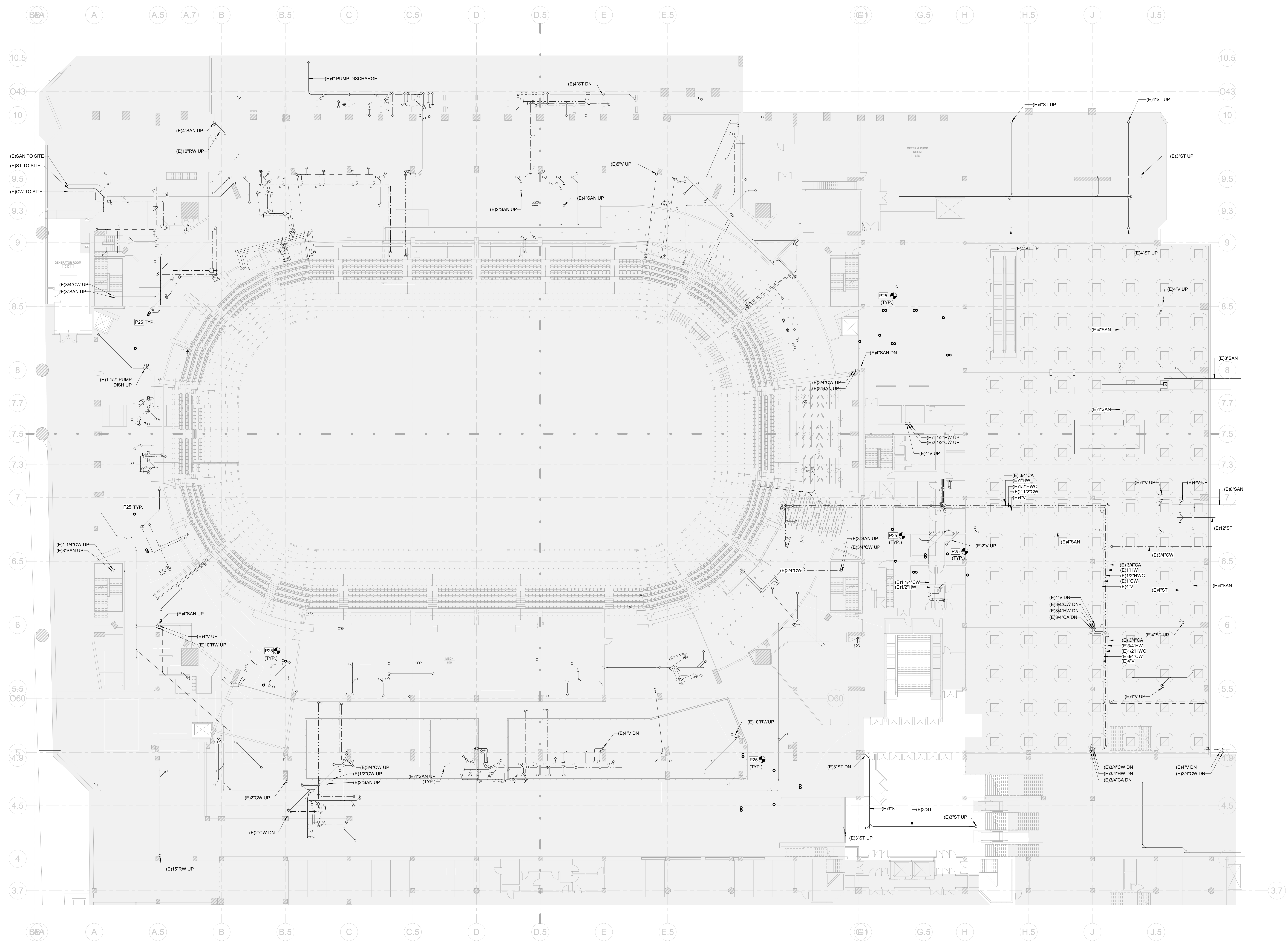
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1 CIVIC CENTER PLAZA
HARTFORD, CT

DWG. TITLE:
LEVEL 31 - PLUMBING
CONSTRUCTION PHASE 2

SCALE: 1/16" = 1'-0"
PROJ. NO: 1605
DWG. NO: P-201.PH2



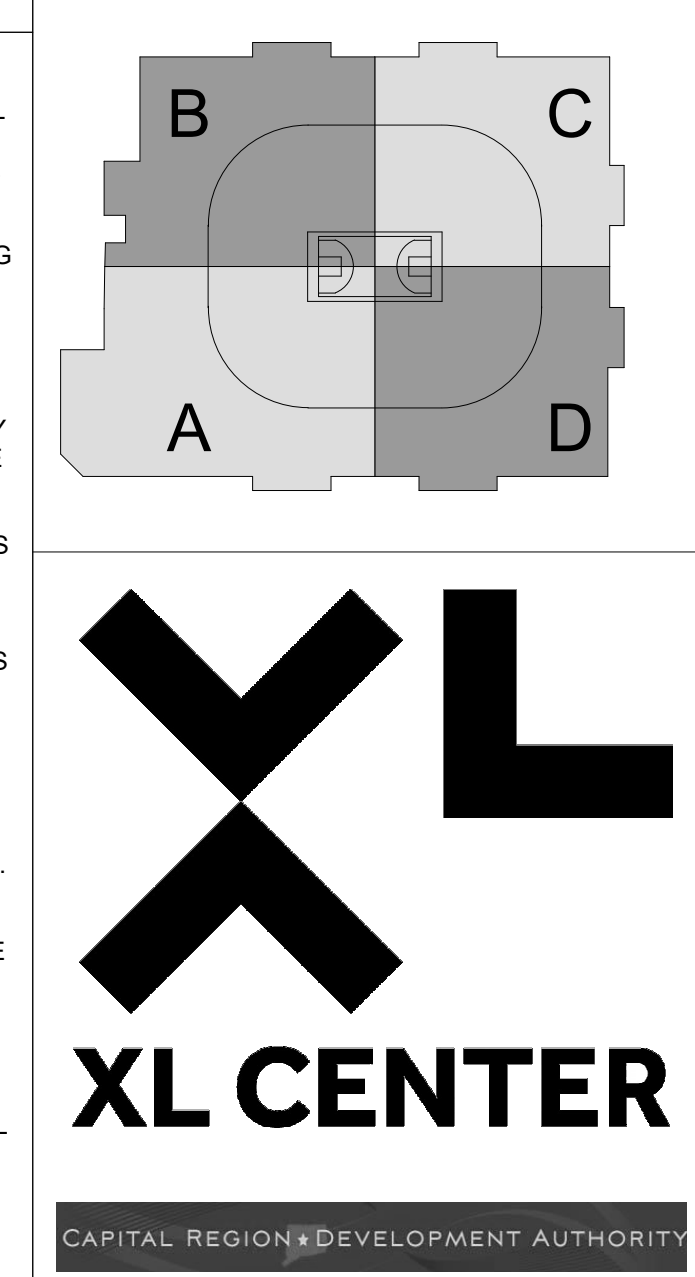
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PIPE KEYNOTE LEGEND:

PIPE SYSTEM DESIGNATION (XX)	PIPE KEYNOTE	QUANTITY
HW - HOT WATER	UNDER SLAB	
HC - HOT WATER CIRCULATION		
S - SANITARY		
ST - STORM		
SD - SLOPE DOWN		
G - GAS		
GW - GREASE WASTE		

KEYNOTES

P25 PIPE UP TO SERVE FIXTURES ABOVE. CONNECT TO NEAREST PLUMBING MAINS PROVIDE ISOLATION VALVE TO EACH BATHROOM GROUP SEE FLOOR ABOVE FOR PIPE TYPE.



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NO.	DESCRIPTION	DATE
1	ISSUED FOR TPA 50	10/1/99

REVISIONS/ ISSUES

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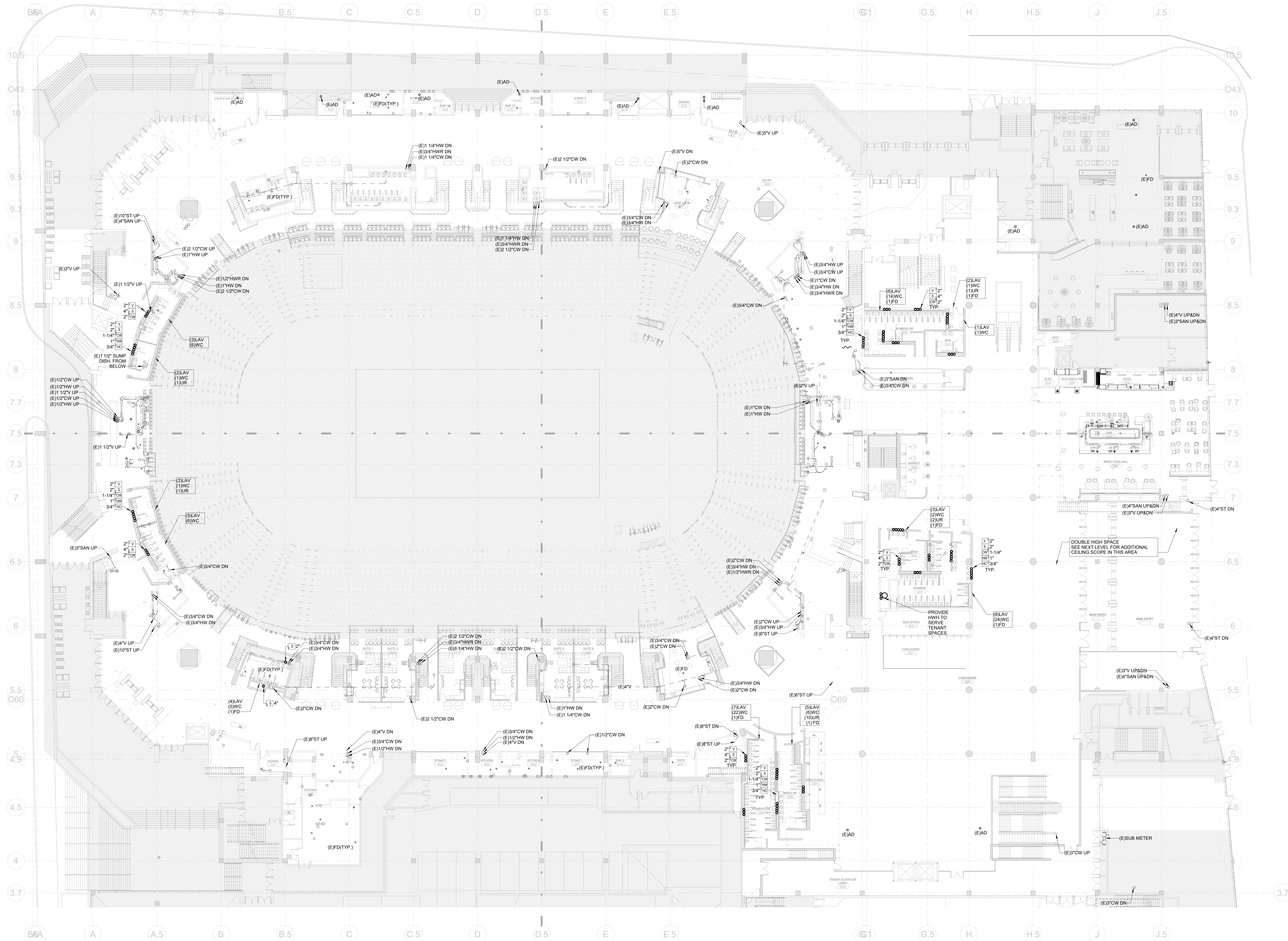
1 CIVIC CENTER PLAZA
 HARTFORD, CT

DWG. TITLE
LEVEL 48 - PLUMBING CONSTRUCTION PHASE 2

SCALE
1/16" = 1'-0"

DWG. NO.
P-202.PH2

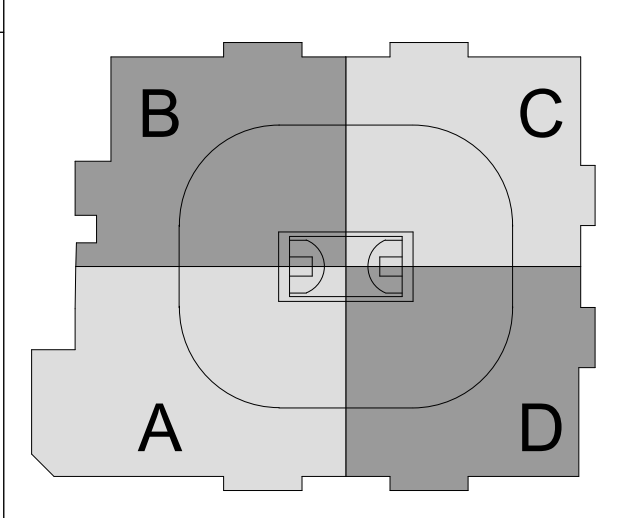
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 1605



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PIPE KEYNOTE LEGEND:

PIPE SYSTEM DESIGNATION (KEY)	PIPE KEYNOTE	PIPE SIZE	PIPE SYSTEM	QUANTITY
HW	HC HOT WATER CIRCULATION	4\"/>		



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KEYNOTES

NO.	REVISIONS / ISSUES	DATE
1	ISSUED FOR T&E	12/1/20

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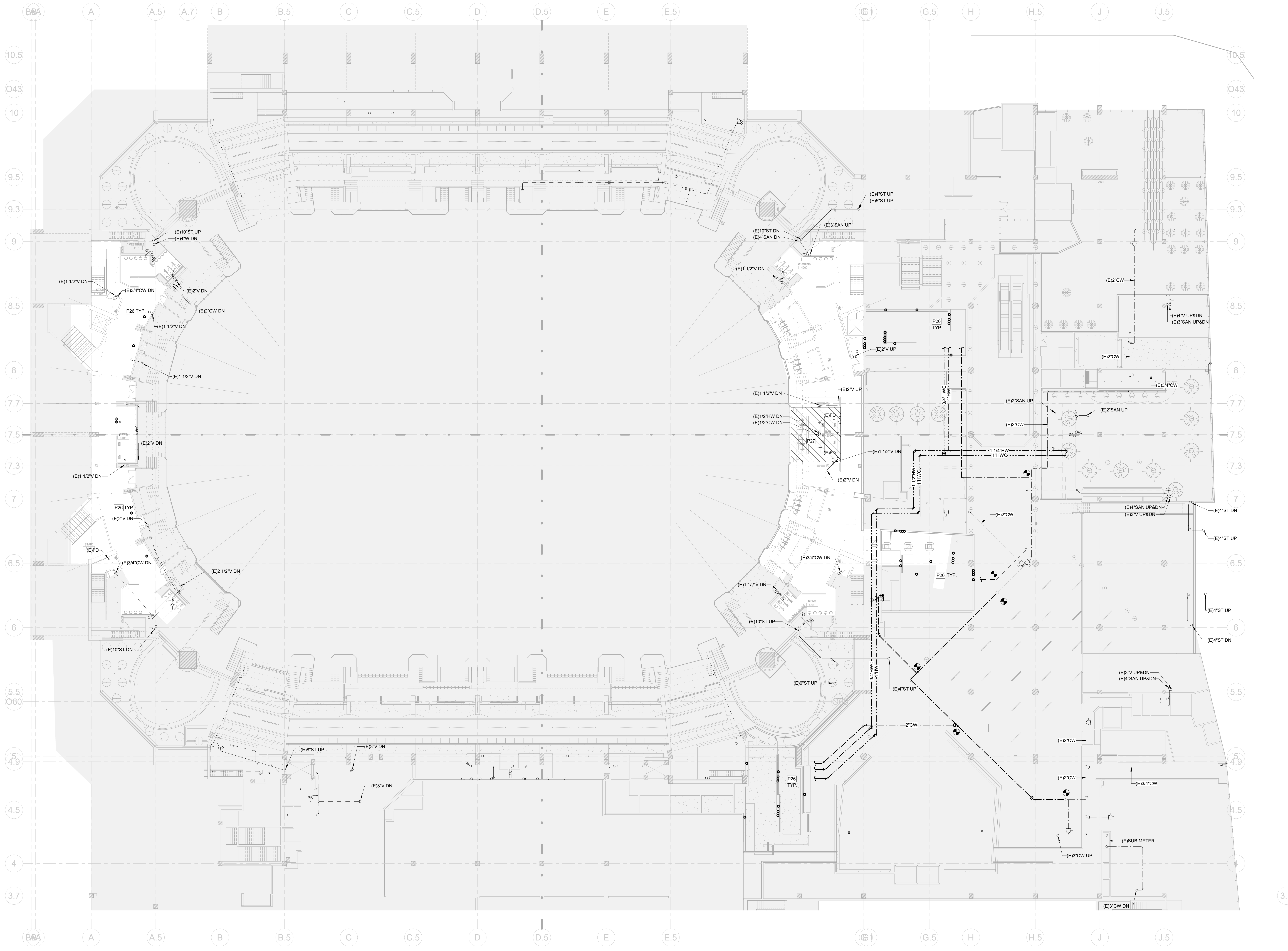
1 CIVIC CENTER PLAZA
HARTFORD, CT

DWG. TITLE
**LEVEL 61 - PLUMBING
CONSTRUCTION PHASE 2**

SCALE
1/16" = 1'-0"

DWG. NO.
P-203.PH2

PROJ. NO.
1605



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PIPE KEYNOTE LEGEND:

PIPE SYSTEM DESIGNATION (W/)		PIPE KEYNOTE	
CW = COLD WATER	HN = HOT WATER	HN = HOT WATER	HN = HOT WATER
HC = HOT WATER CIRCULATION	S = SANITARY	S = SANITARY	S = SANITARY
V = VENT	ST = STORM	ST = STORM	ST = STORM
SD = SDR 11 PIPE	G = GAS	G = GAS	G = GAS
OW = GREASE WASTE			

- KEYNOTES**
- P26 PIPE DN TO SERVE FIXTURES BELOW. CONNECT TO NEAREST PLUMBING MAIN. PROVIDE SOLUTION VALVE TO EACH BATHROOM GROUP SEE FLOOR BELOW FOR PIPE TYPE.
- P27 REFER TO FOOD SERVICE PLANS FOR PLUMBING IN THIS AREA.

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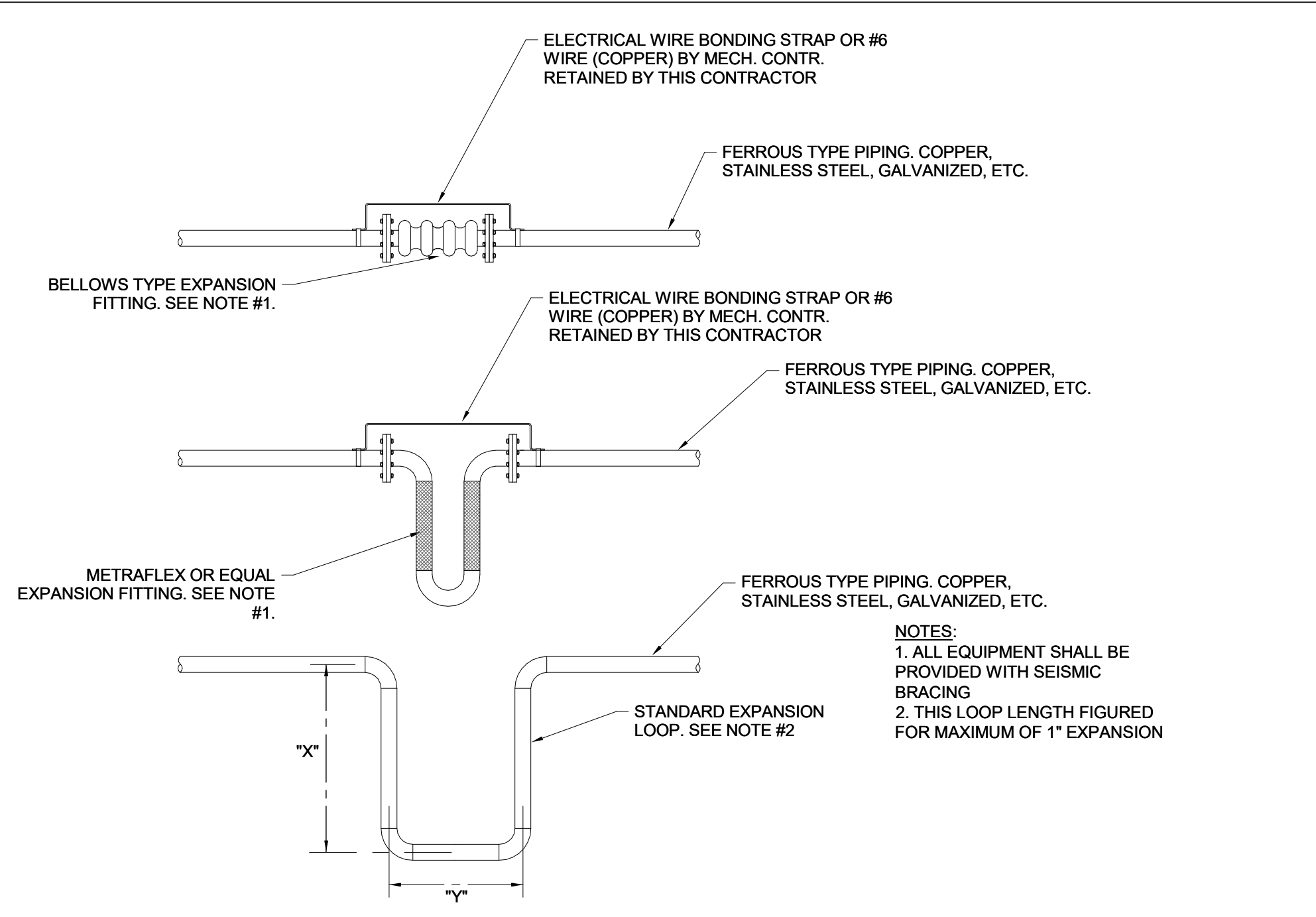
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NO.	DESCRIPTION	DATE

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DATE PLOTTED	12/11/2020 11:47:02 PM

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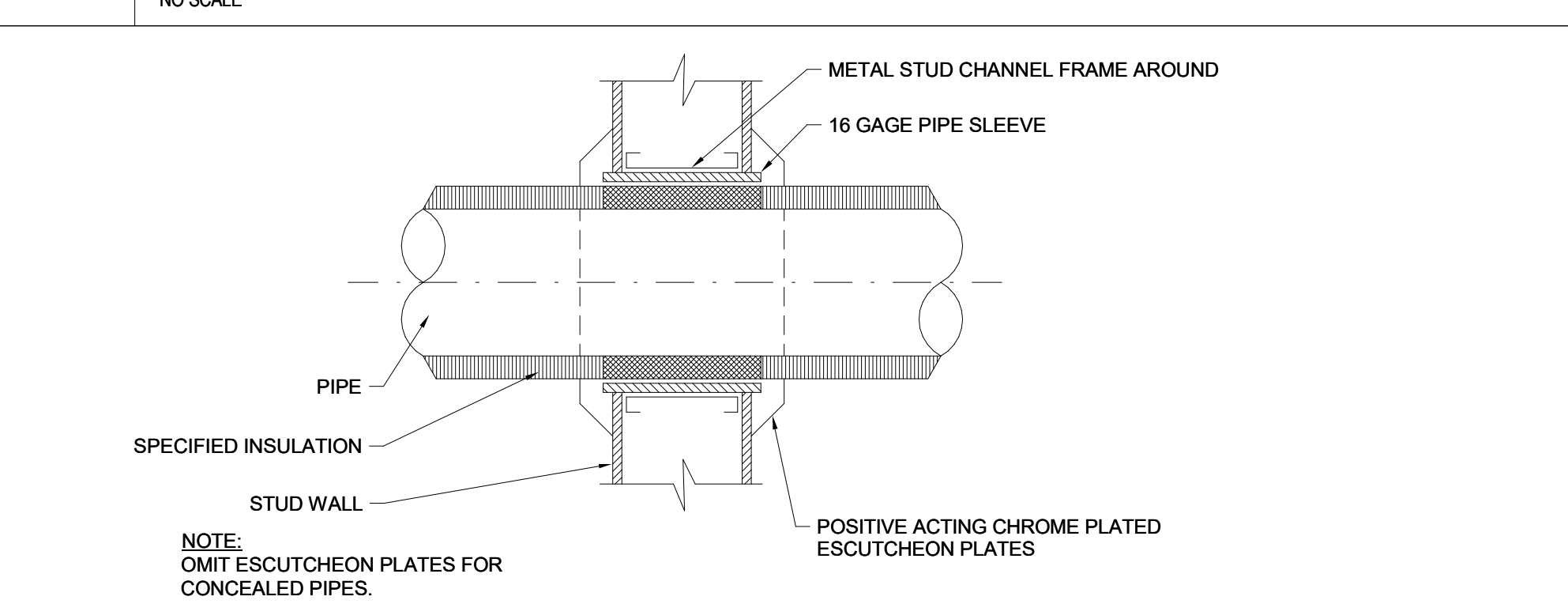
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PROJ. NO.	
1605	



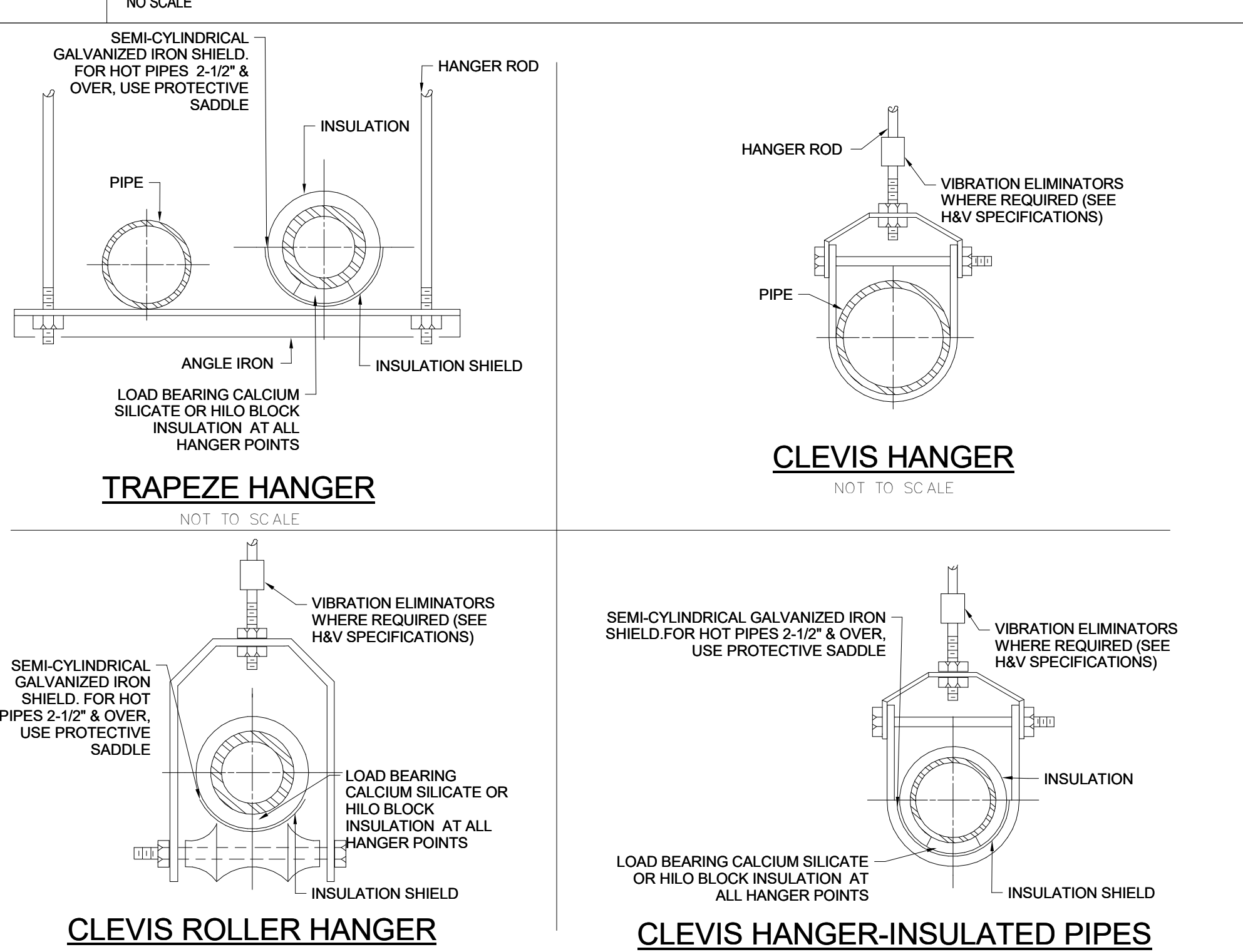
SCHEDULES FOR PIPE EXPANSION LOOPS

PIPE SIZE	Y	X	TOT. DEVELOPED LENGTH
3/4"	1'-2"	2'-11"	7'-0"
1"	1'-4"	3'-4"	8'-0"
1 1/2"	1'-7"	3'-9"	9'-1"
2"	1'-10"	4'-6"	10'-10"
2 1/2"	2'-0"	5'-0"	12'-0"
3"	2'-2"	5'-6"	13'-2"
4"	2'-7"	6'-4"	15'-7"

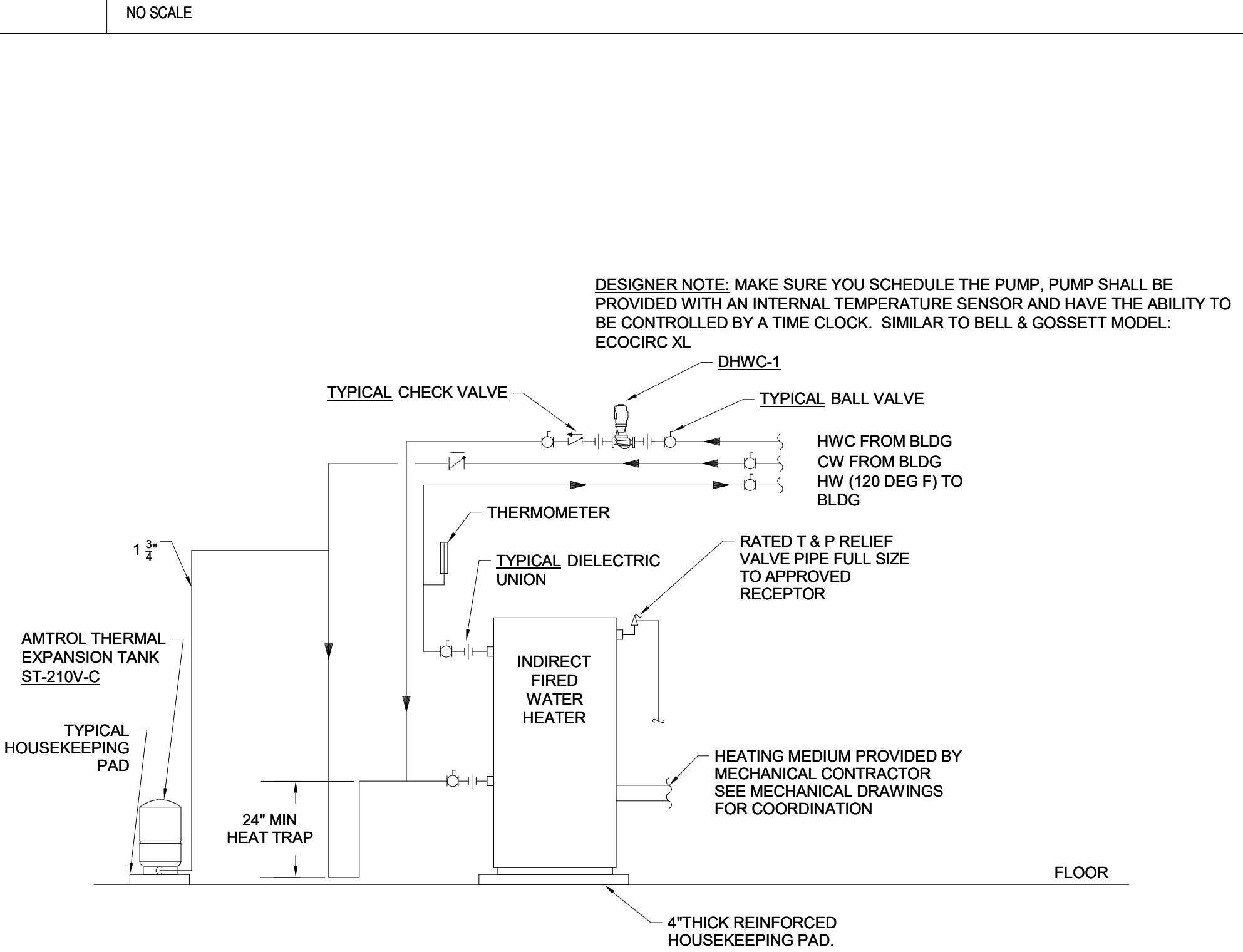
A PIPING EXPANSION TYPES



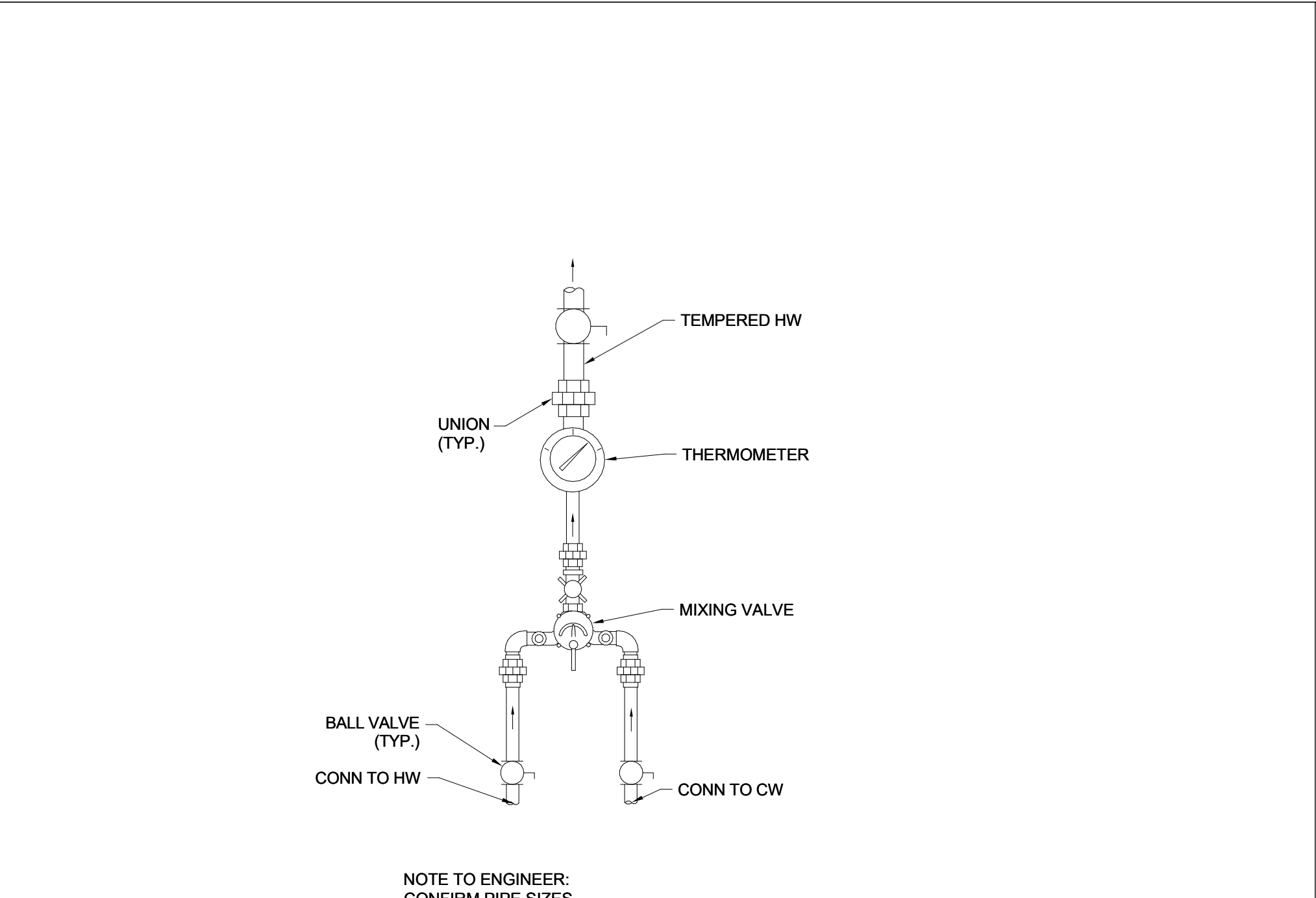
E PIPE THRU STUD WALL DETAIL



H PIPE HANGER DETAIL

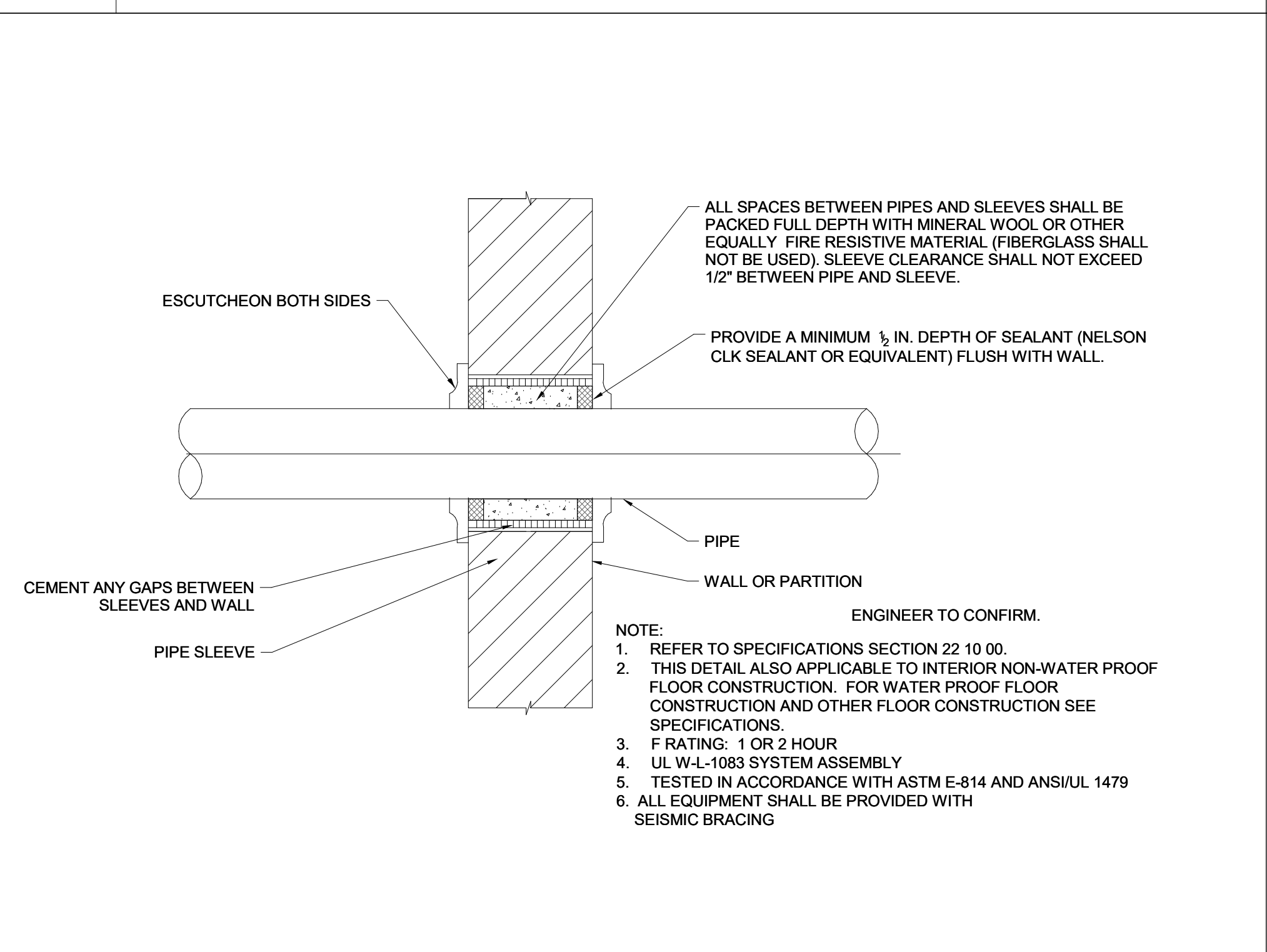


K INDIRECT FIRED WATER HEATER DETAIL



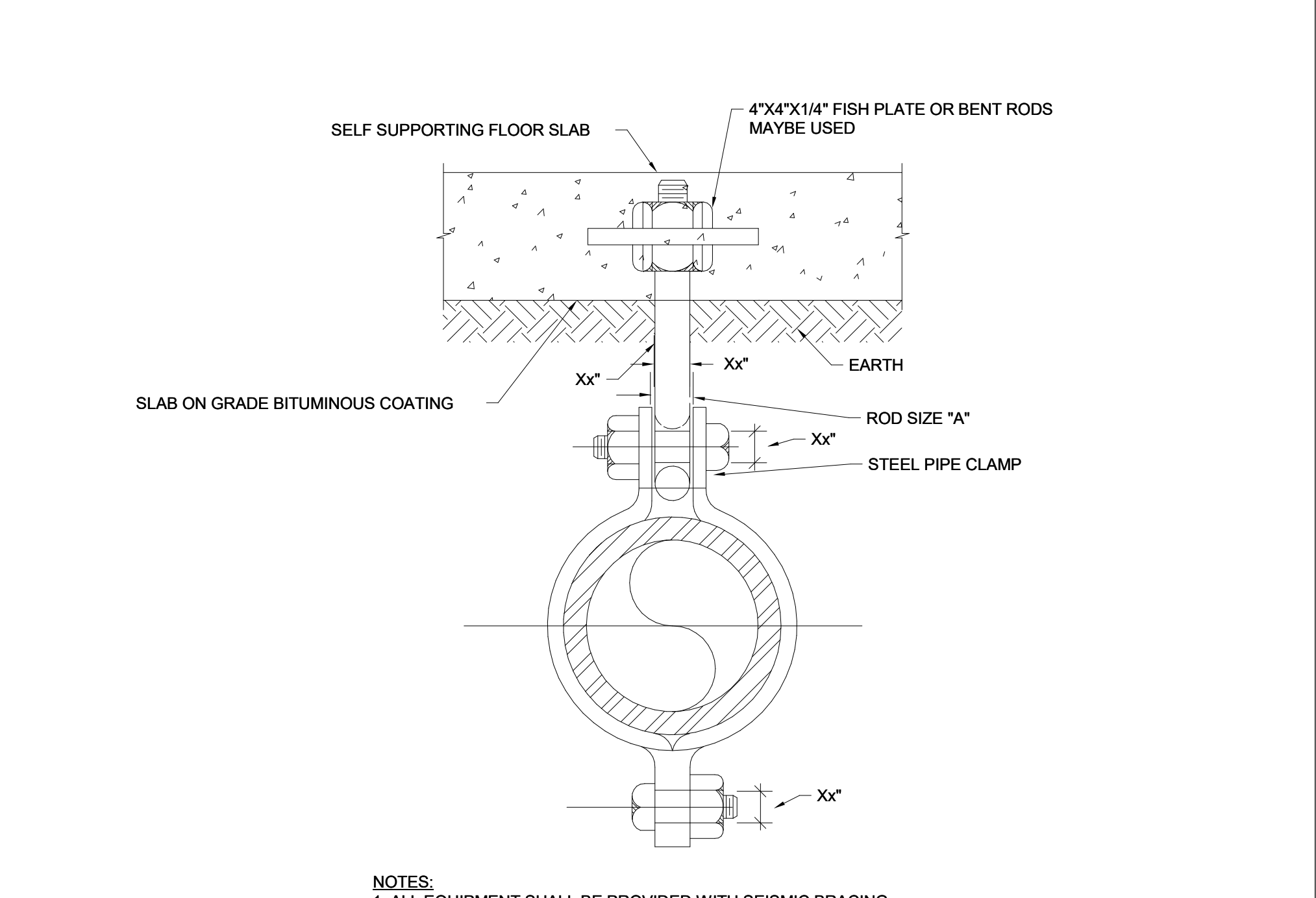
B TEMPERING VALVE DETAIL

NO SCALE



F DETAIL OF PIPING PIERCING REQUIRED FIRE RATED PARTITIONS AND WALL

NO SCALE



I METHODS OF PIPE SUPPORT

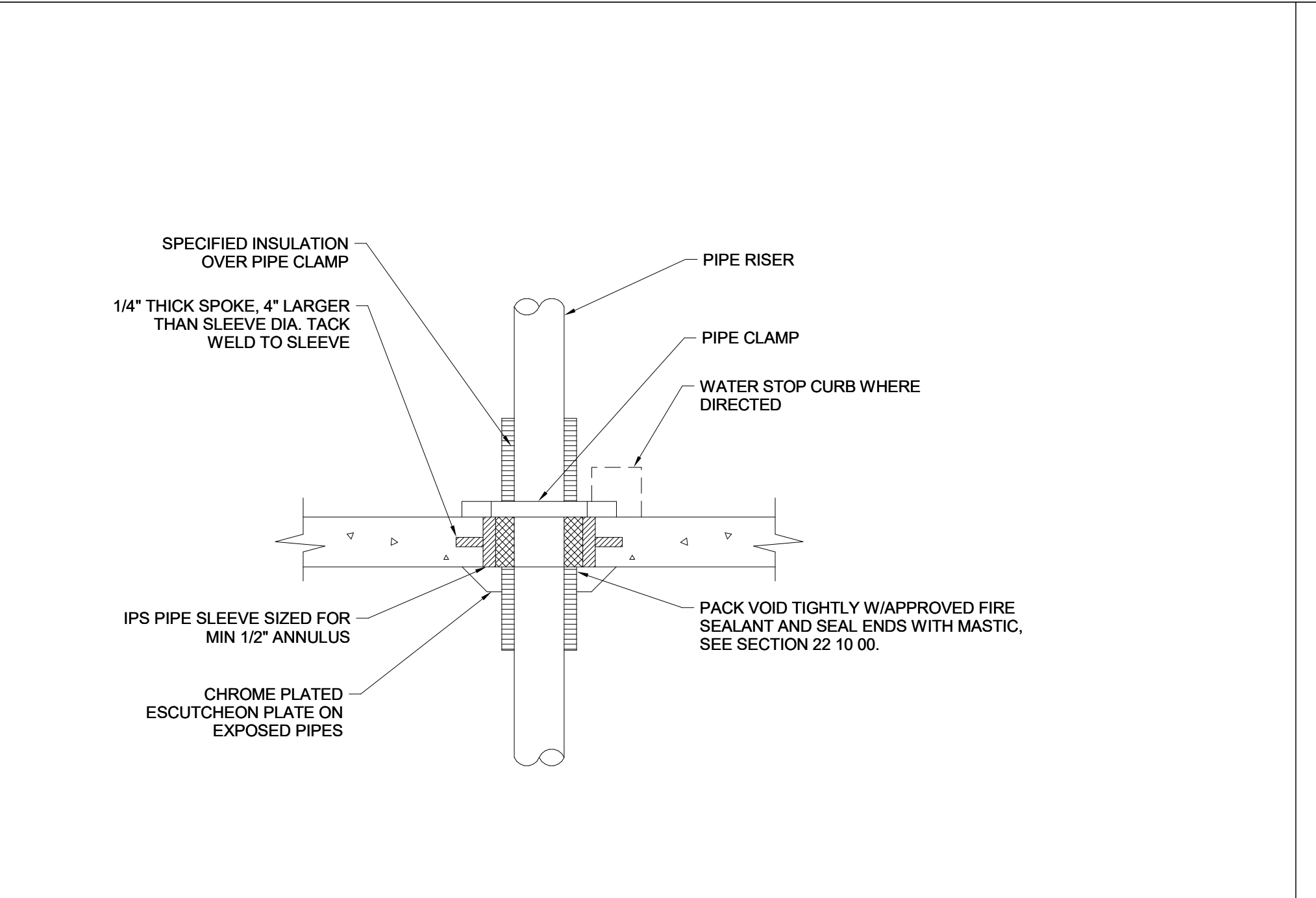
NO SCALE

DIMENSIONS	NOMINAL PIPE SIZES					
	3"	4"	6"	8"	10"	12"
A	5/8"	3/4"	7/8"	1"	1 1/8"	1 1/4"
B	3/4"	7/8"	1"	1 1/8"	1 1/4"	1 1/2"
C	1/4"	3/8"	3/8"	1/2"	1/2"	1/2"
X	X	X	X	X	X	X
D	1 1/4"	1 1/2"	1 1/2"	2"	2"	2 1/2"
E	5/8"	3/4"	3/4"	7/8"	7/8"	7/8"

NOTE:
 PROVIDE HANGERS ON ALL UNDERGROUND SOIL VENT AND STORM DRAINAGE PIPING. ALL JOINTS ON THE UNDERGROUND PIPING SHALL BE SEALED WATER TIGHT SO THAT THERE WILL BE NO GROUND WATER INFILTRATION INTO THE DRAINAGE SYSTEM.

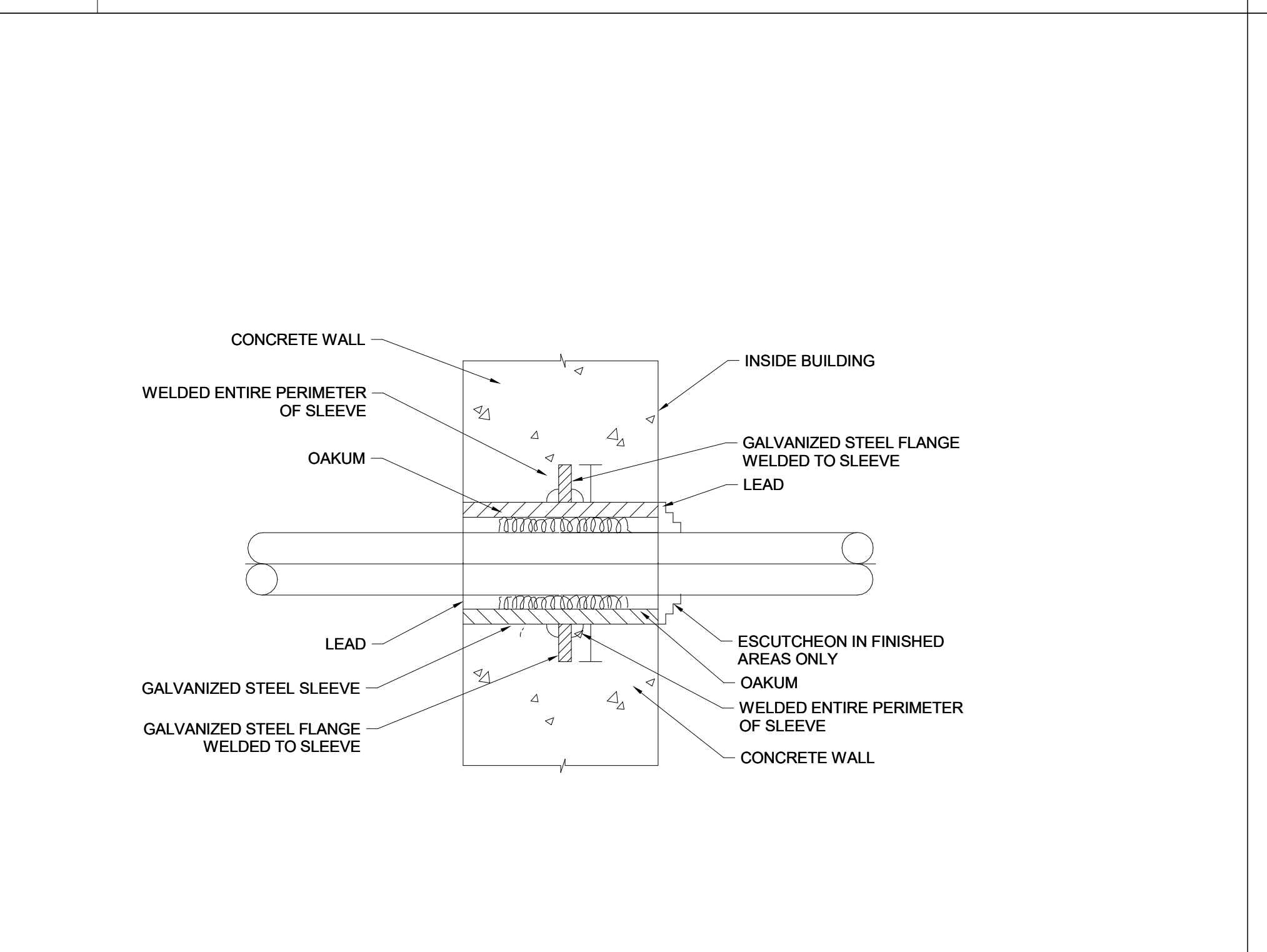
L DETAIL OF PIPE IN FILL

NO SCALE



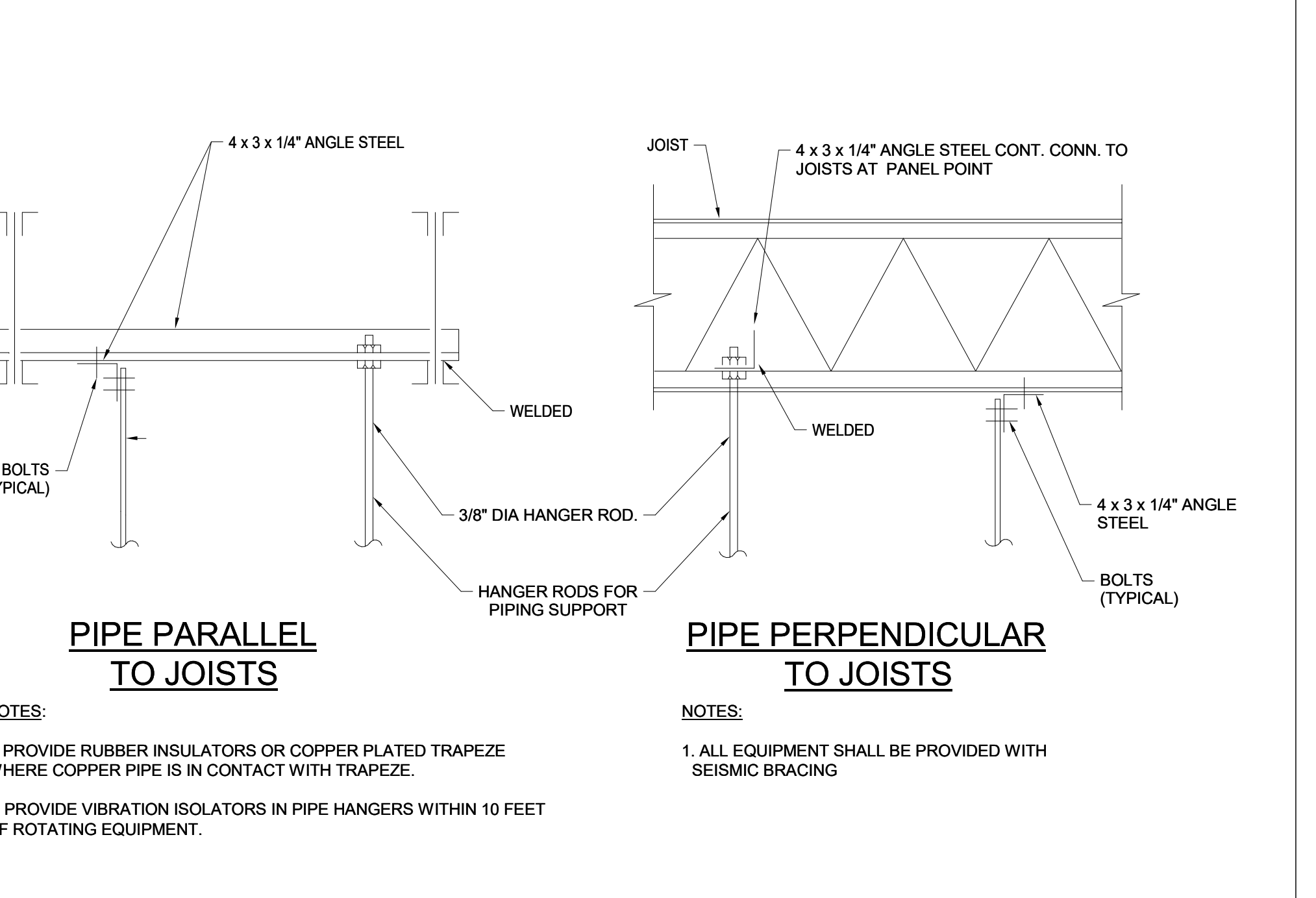
C PIPE THRU FLOOR SLAB DETAIL

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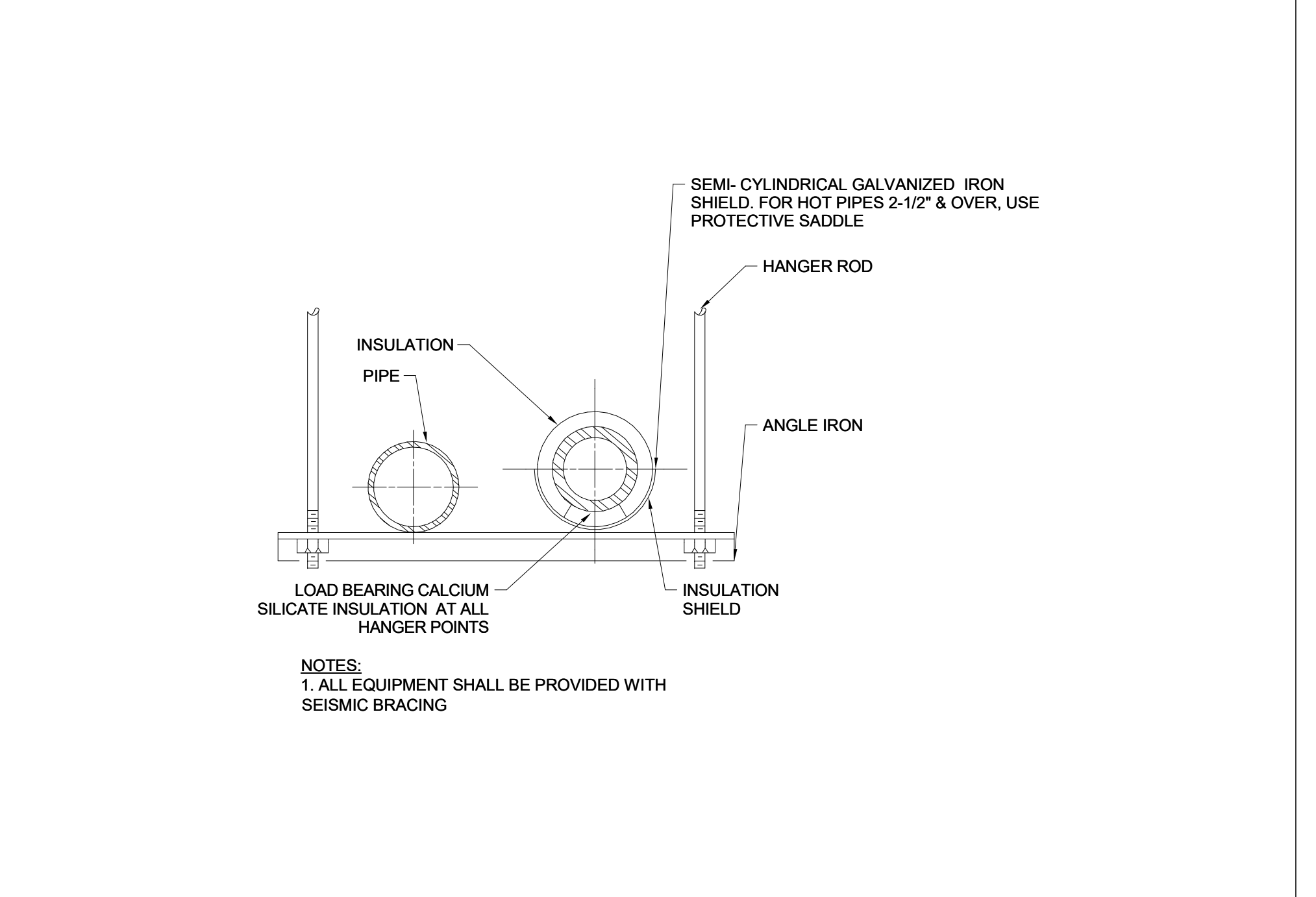
G DETAIL OF WATERTIGHT SLEEVE

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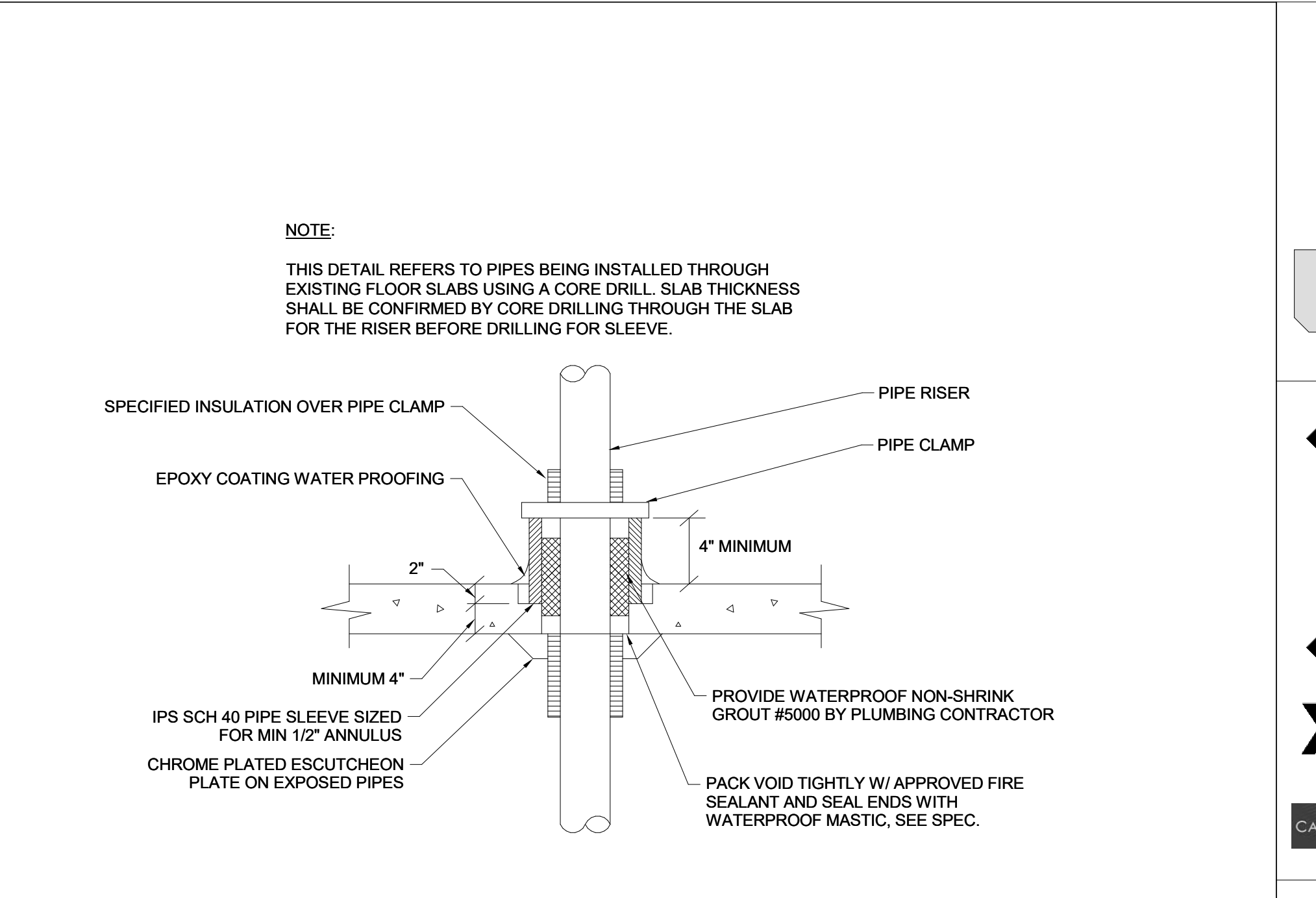
J DUPLEX SUMP PUMP/SEWAGE EJECTOR DETAIL

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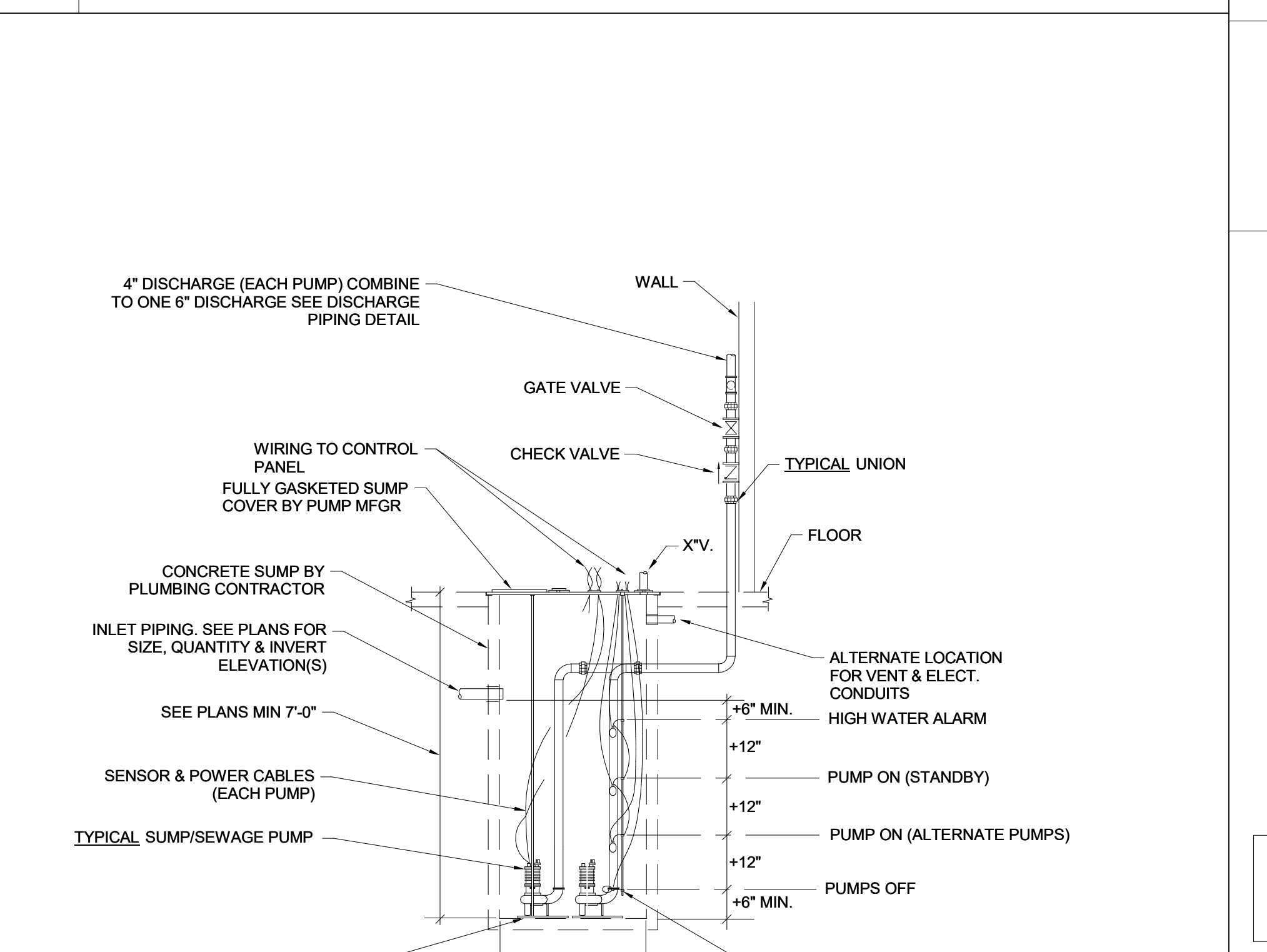
M TRAPEZE HANGER

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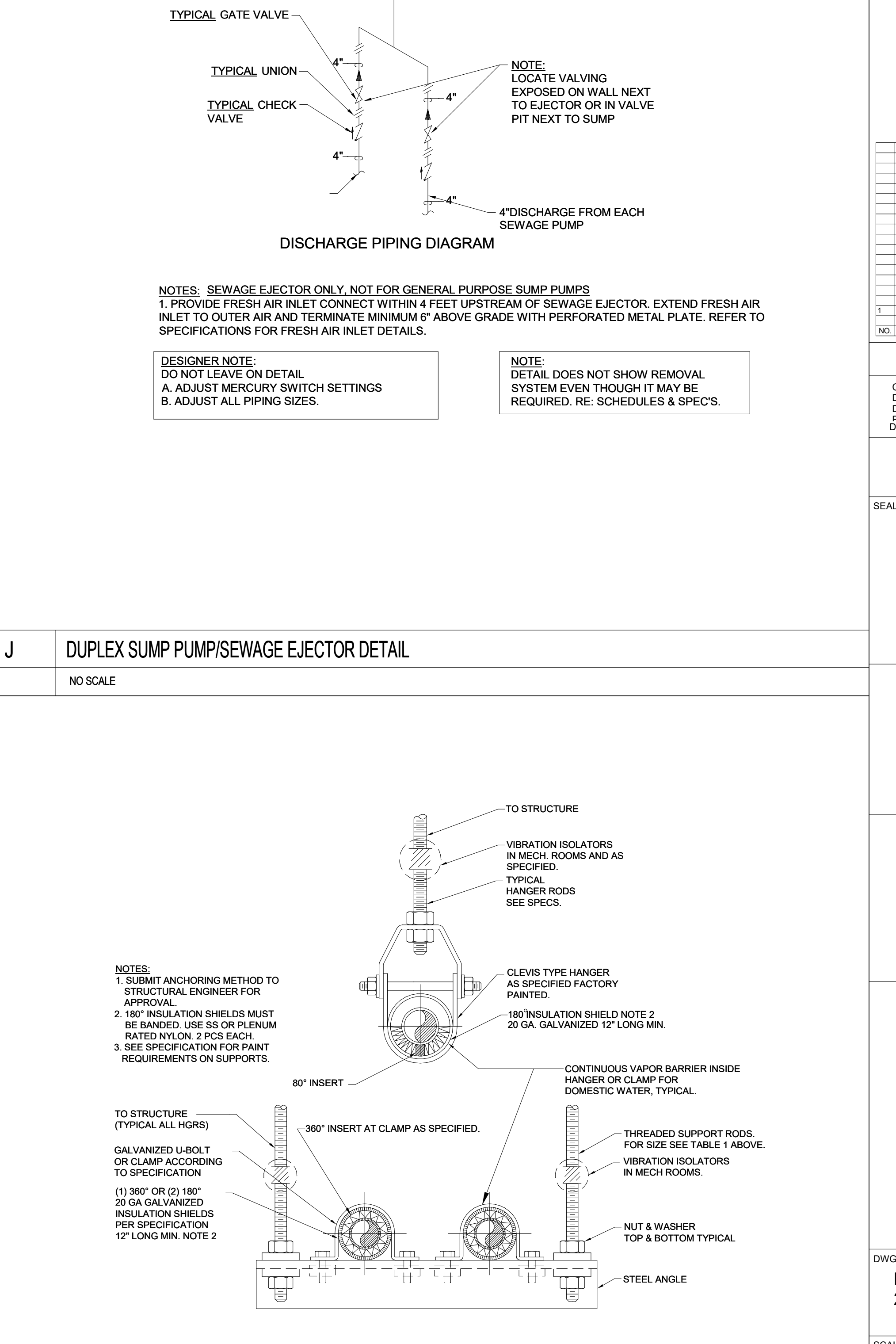
D DETAIL OF PIPE THRU EXISTING FLOOR SLAB

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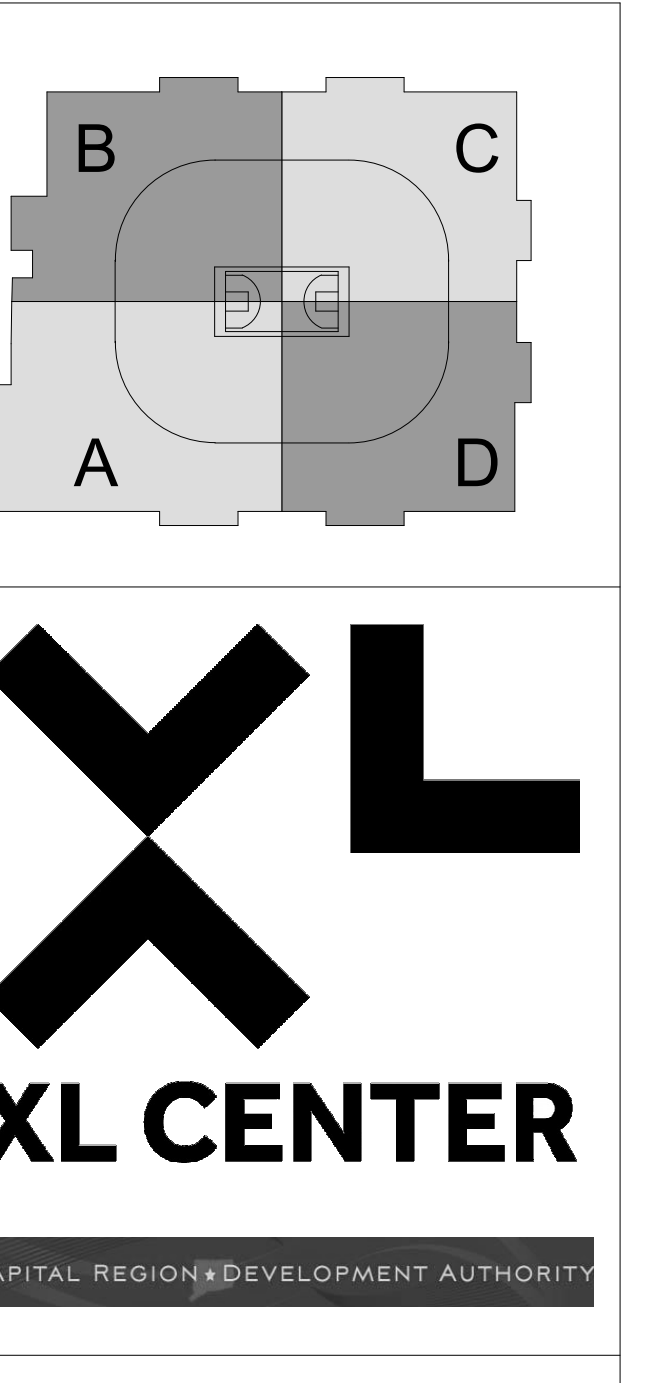
N DOMESTIC PIPE HANGER DETAIL

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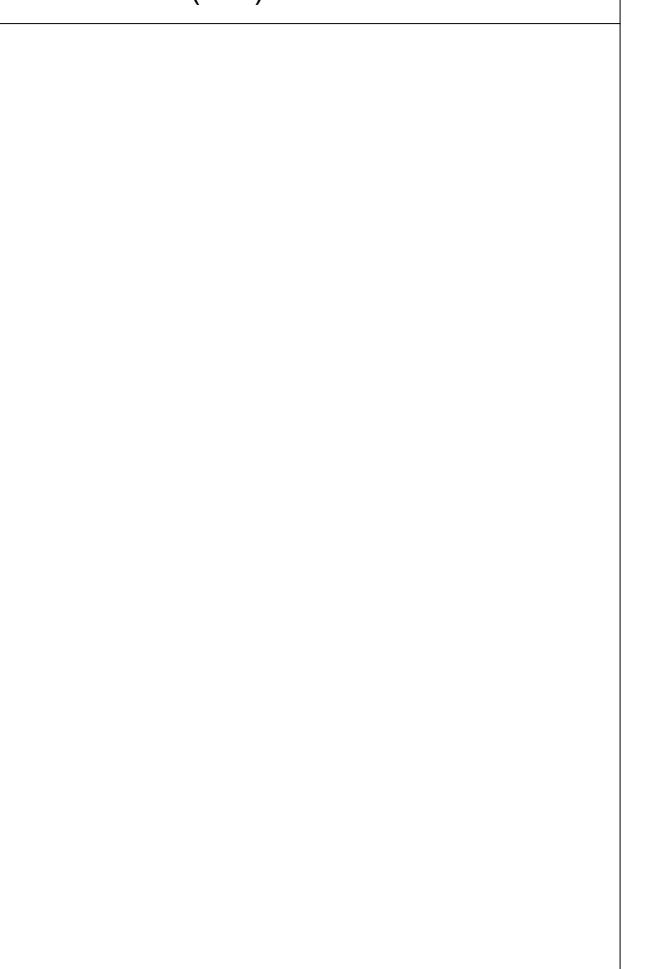
N DOMESTIC PIPE HANGER DETAIL

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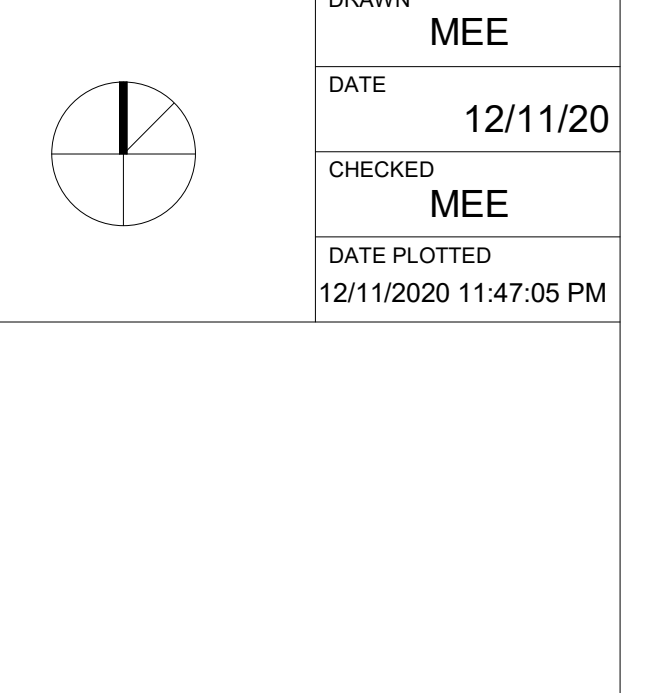
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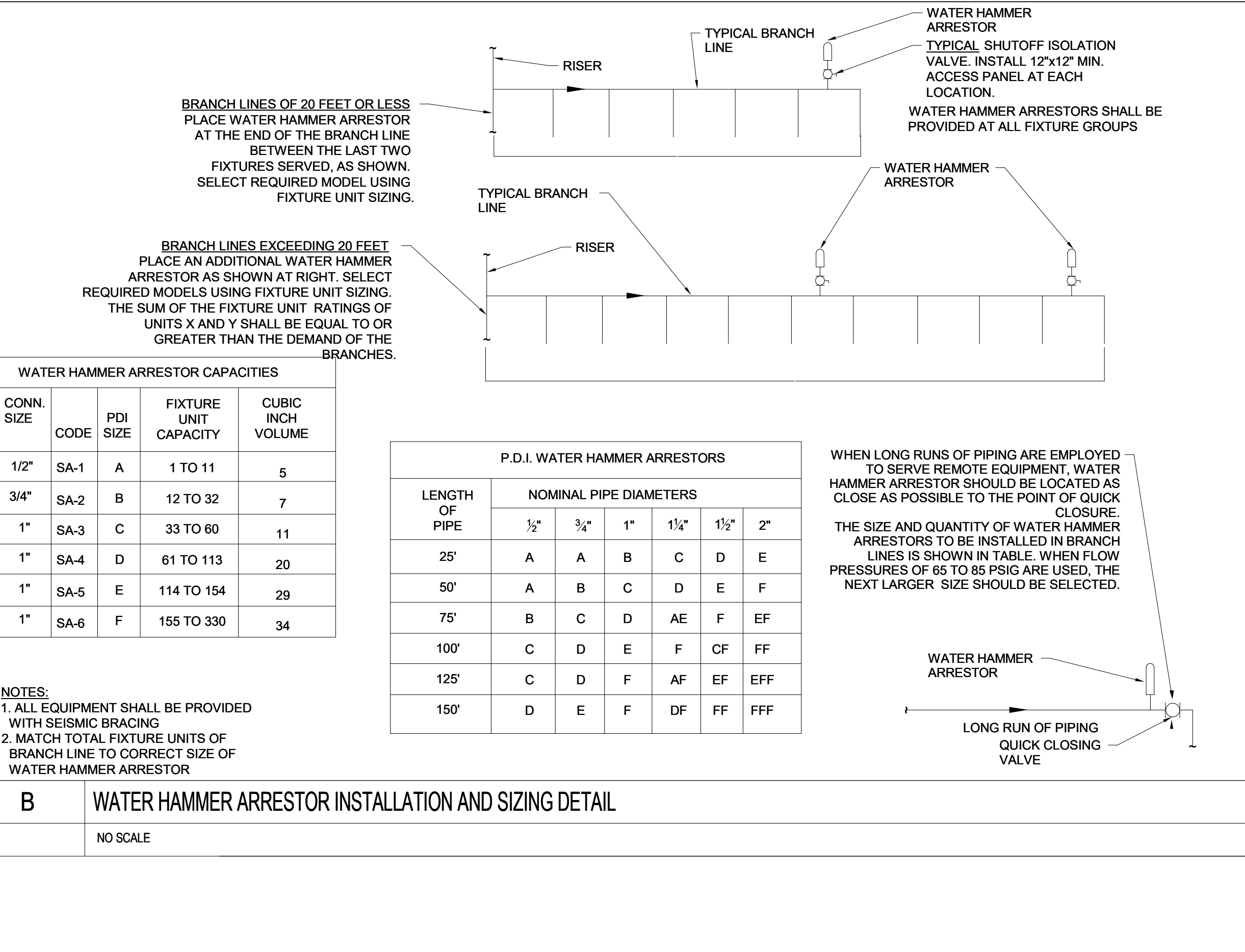
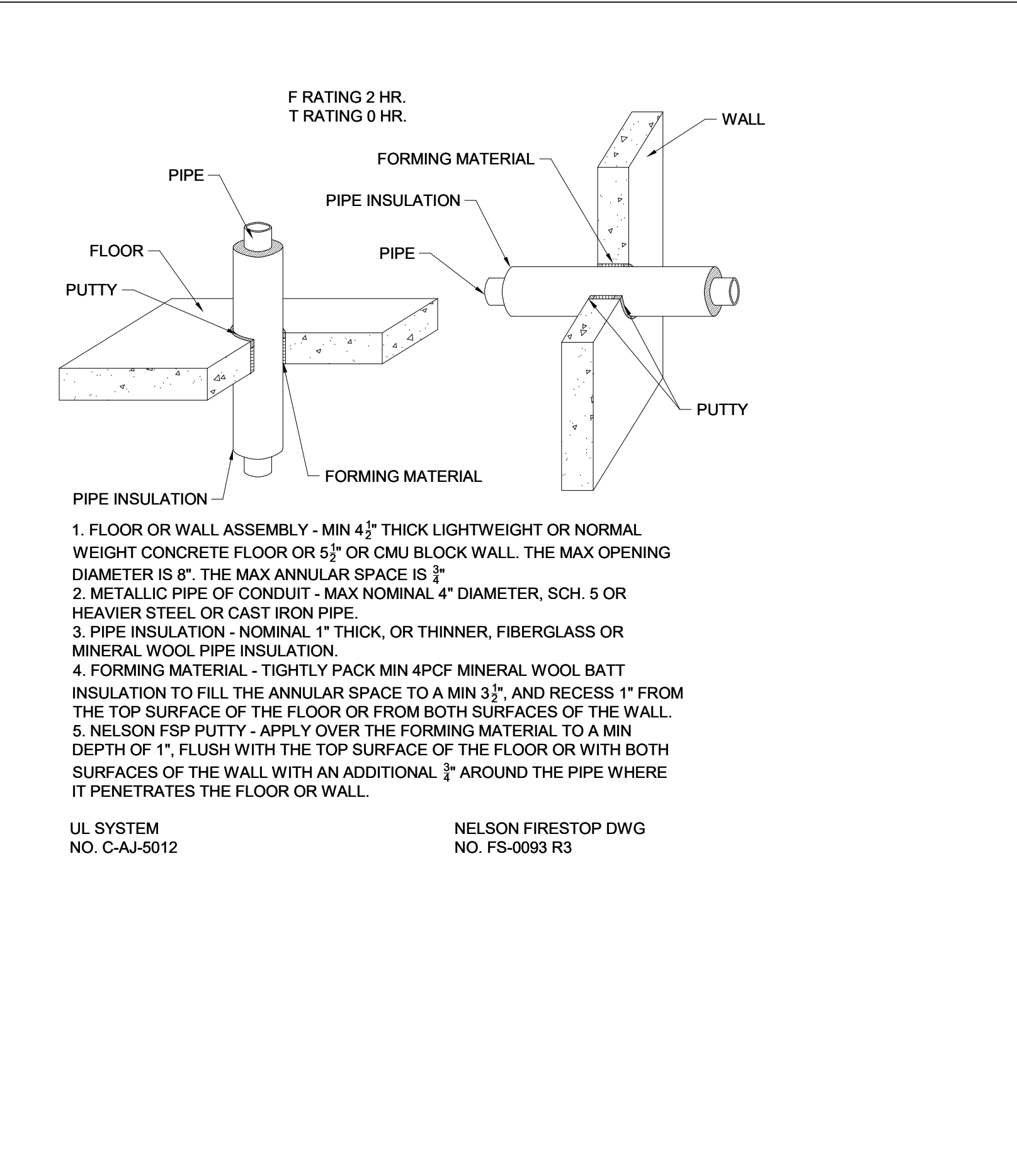
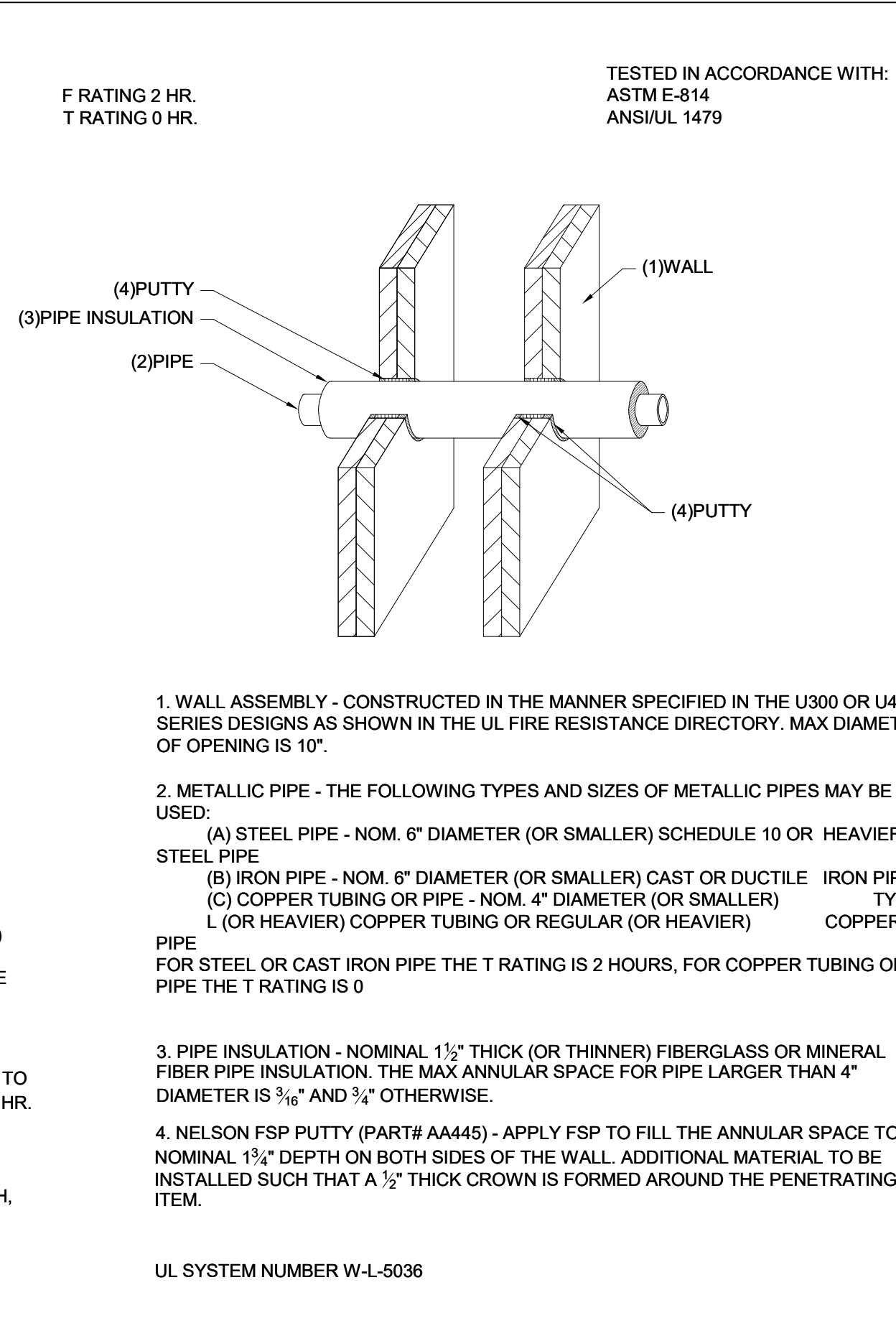
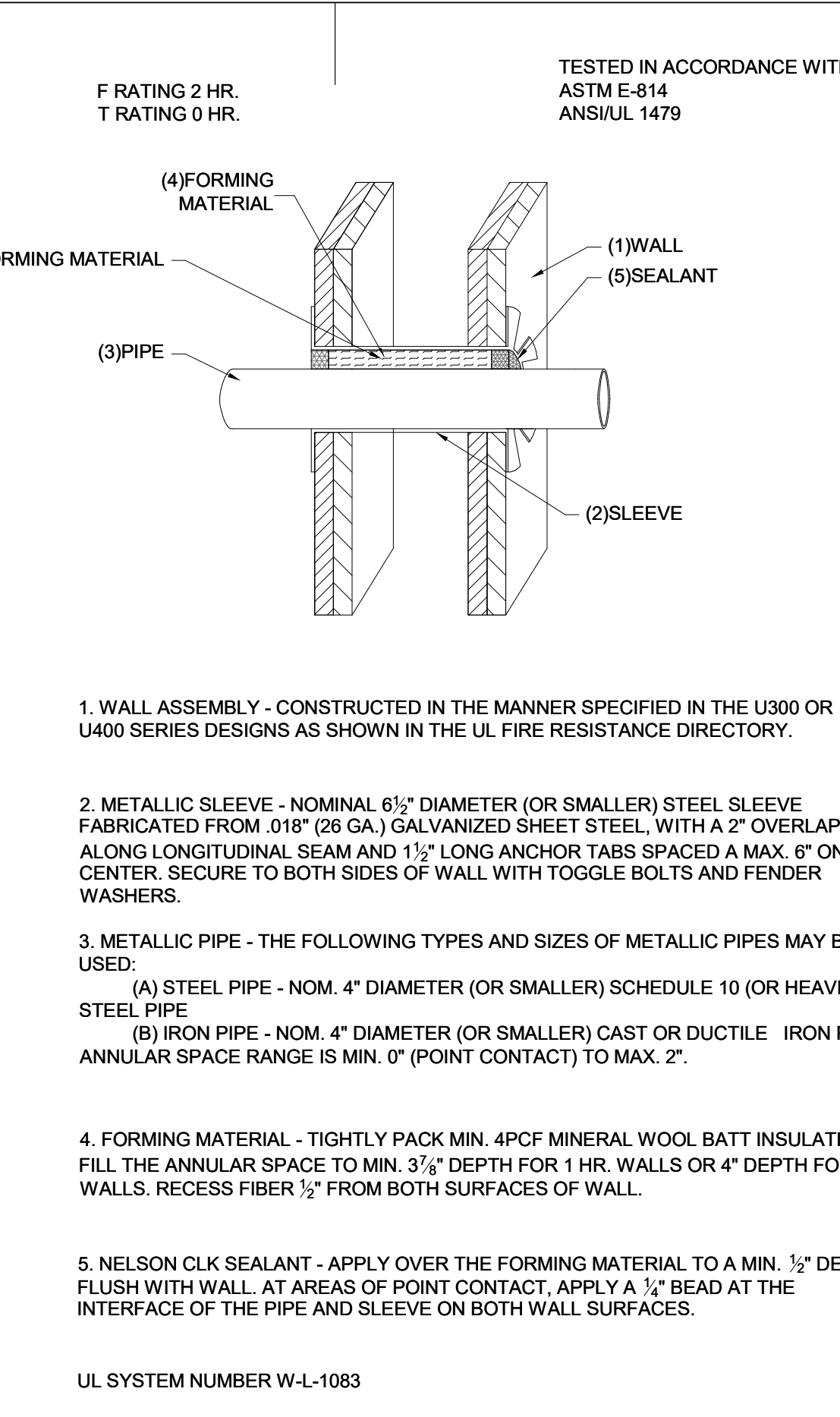
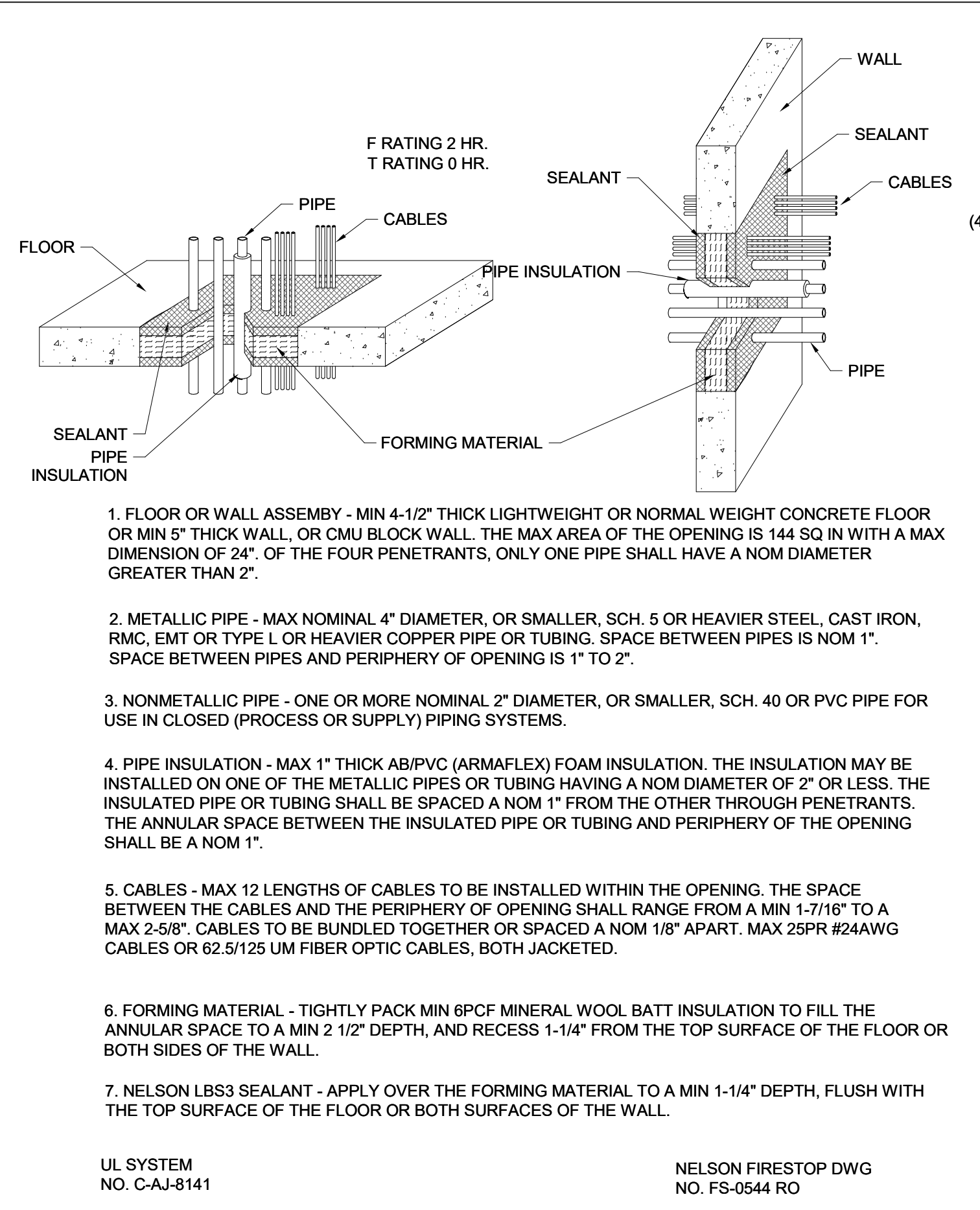
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DWG. TITLE: PLUMBING DETAILS I - PHASE 2

SCALE: 1/8" = 1'-0"
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CONCRETE FLOOR OR WALL MULTIPLE METALLIC PIPES FIRE STOPPING DETAIL
NOT TO SCALE

GYPSUM WALL UNINSULATED METALLIC PIPE FIRE STOPPING DETAIL
NOT TO SCALE

GYPSUM WALL INSULATED METALLIC PIPE FIRE STOPPING DETAIL
NOT TO SCALE

WATER HAMMER ARRESTOR INSTALLATION AND SIZING DETAIL
NO SCALE

WATER HAMMER ARRESTOR INSTALLATION AND SIZING DETAIL
NO SCALE

NOT FOR CONSTRUCTION

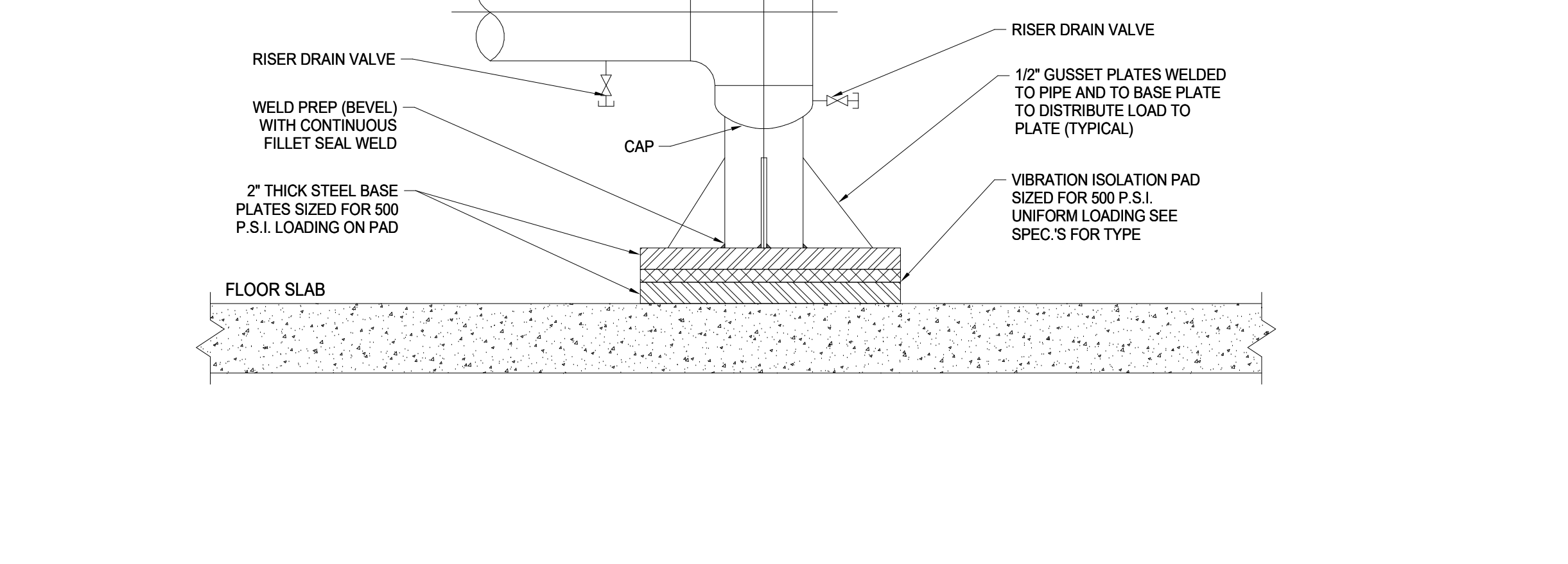
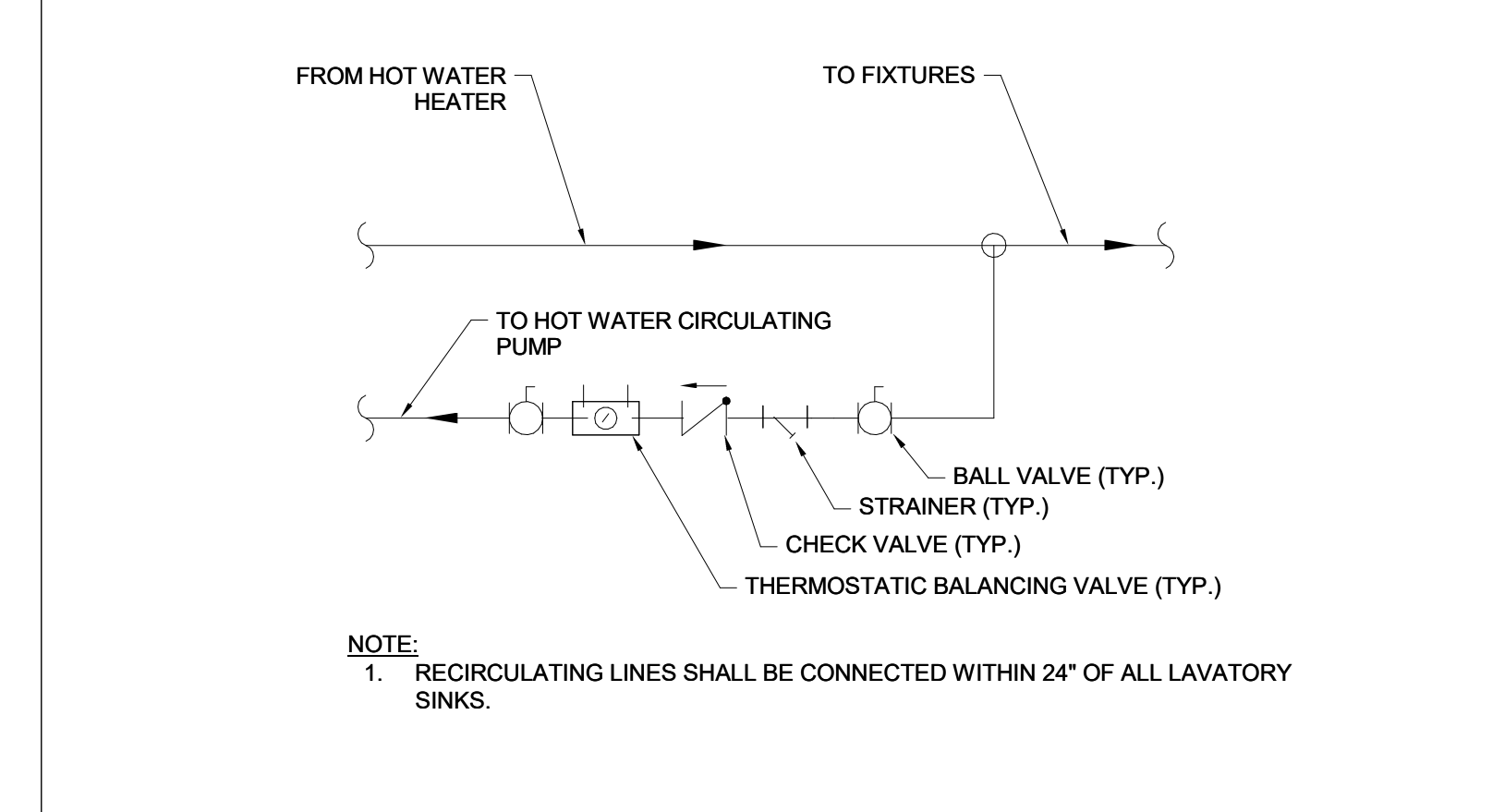
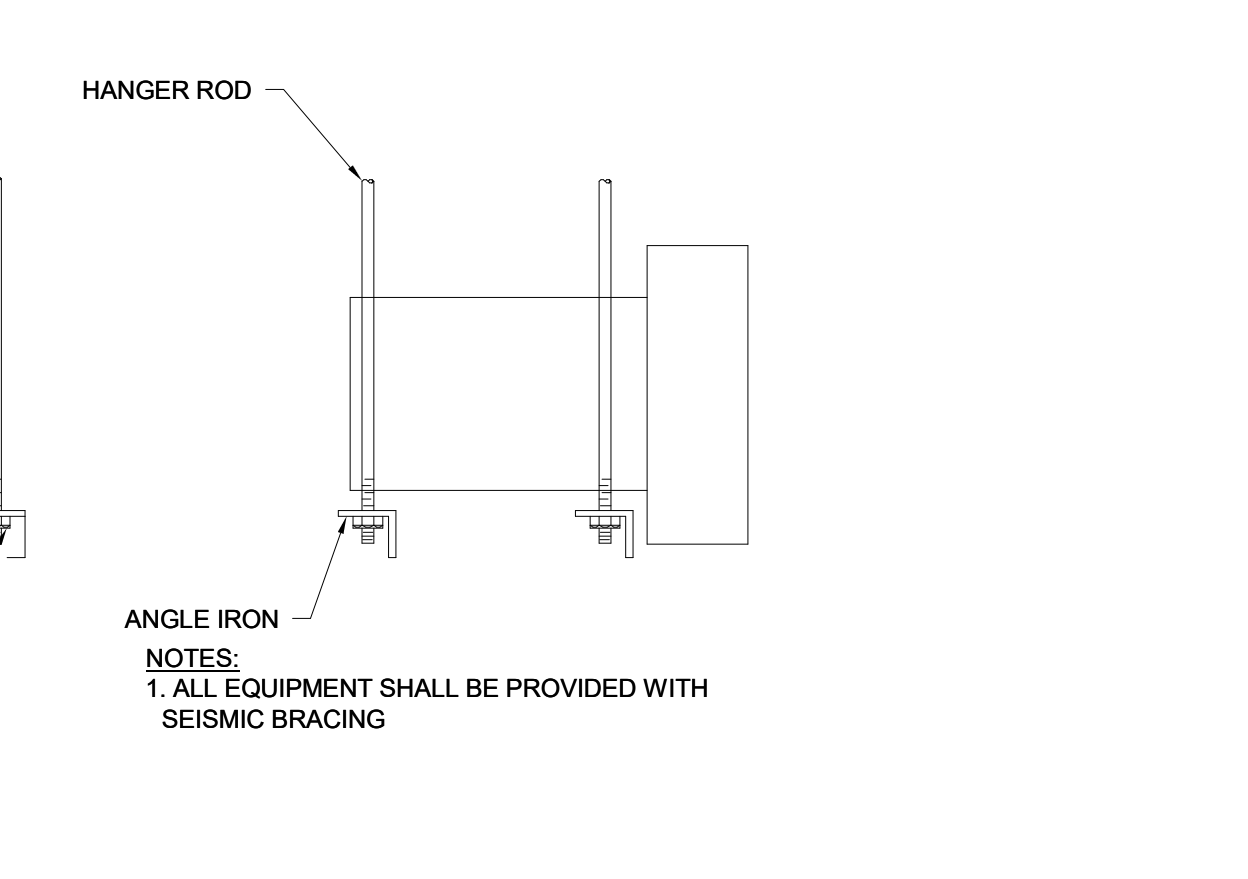
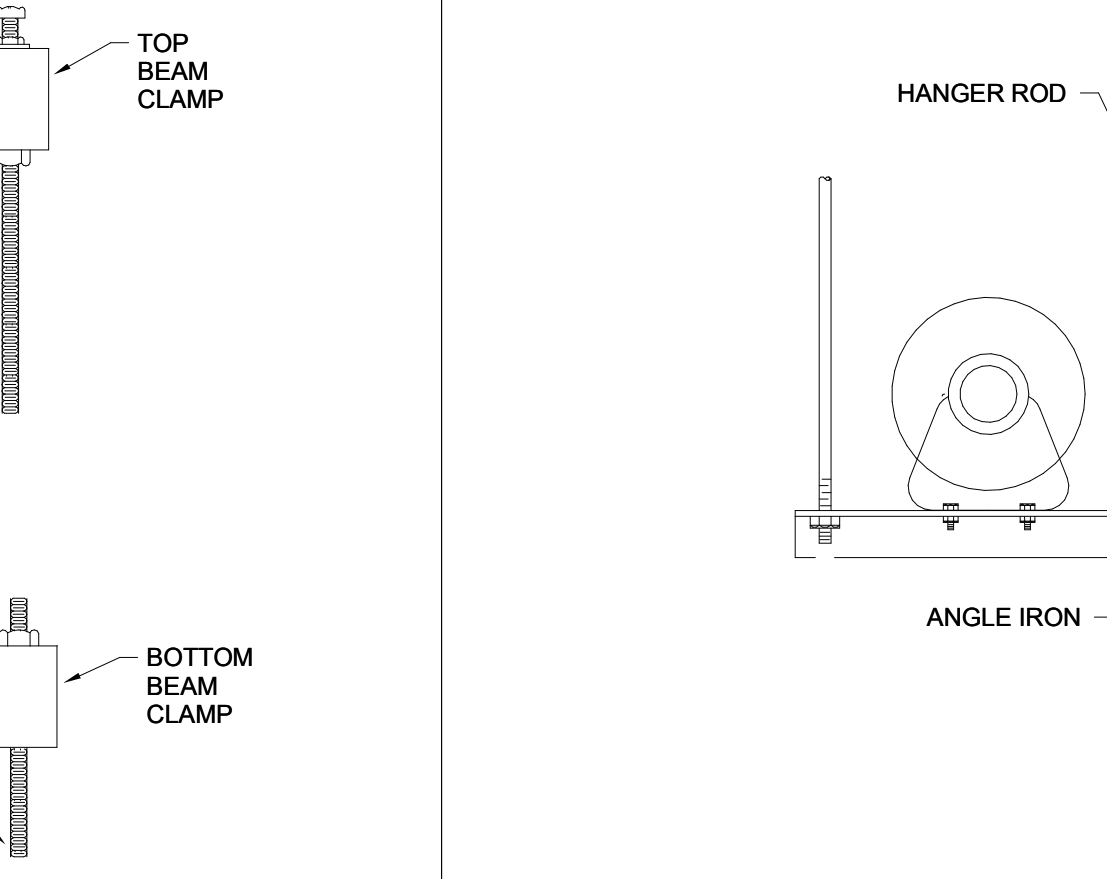
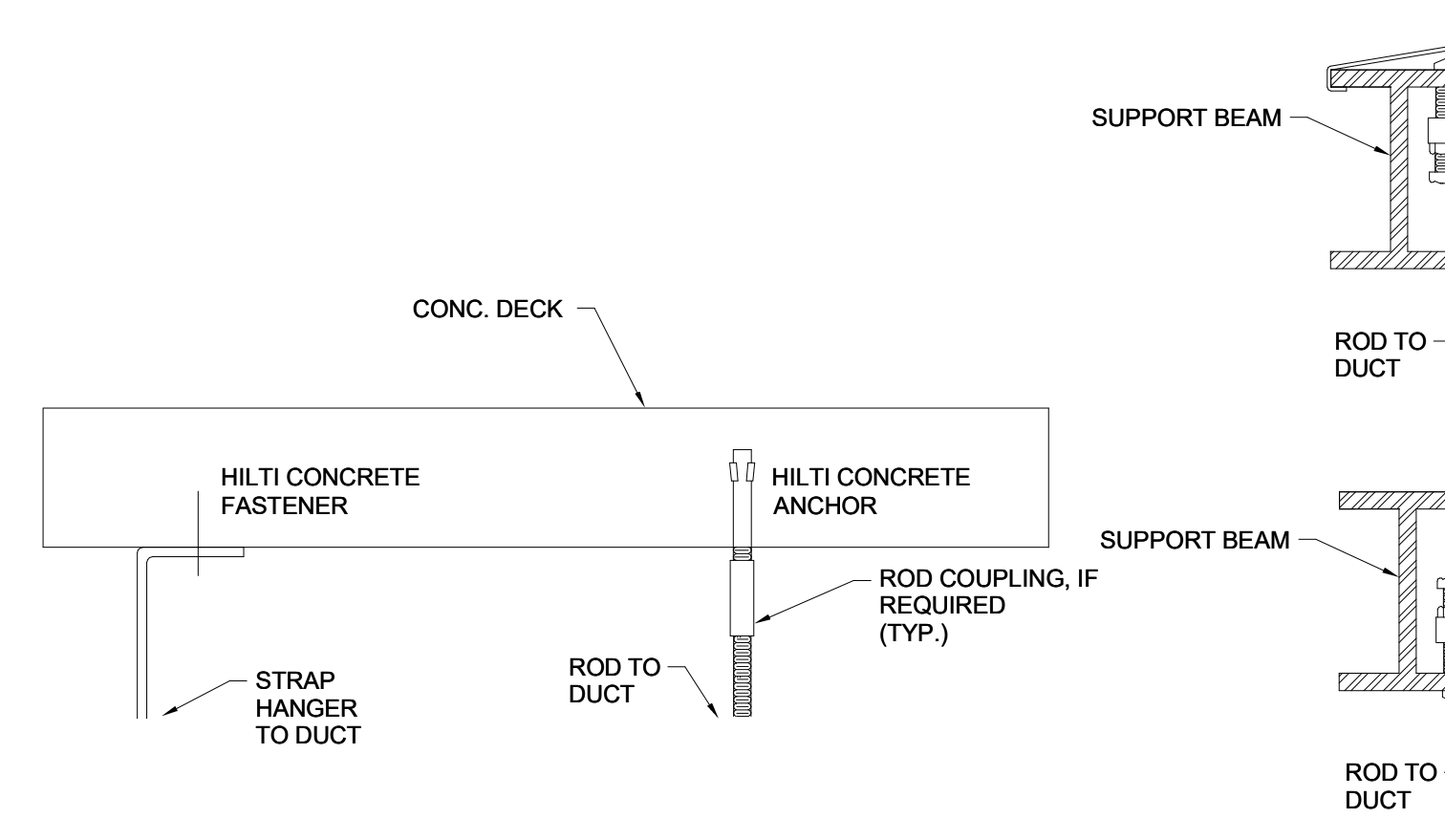
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B GYPSUM WALL UNINSULATED METALLIC PIPE FIRE STOPPING DETAIL
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C GYPSUM WALL INSULATED METALLIC PIPE FIRE STOPPING DETAIL
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D HOT WATER CIRCULATION CONNECTION DETAIL
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F TYPICAL BASE SUPPORT DETAIL FOR PIPE RISERS
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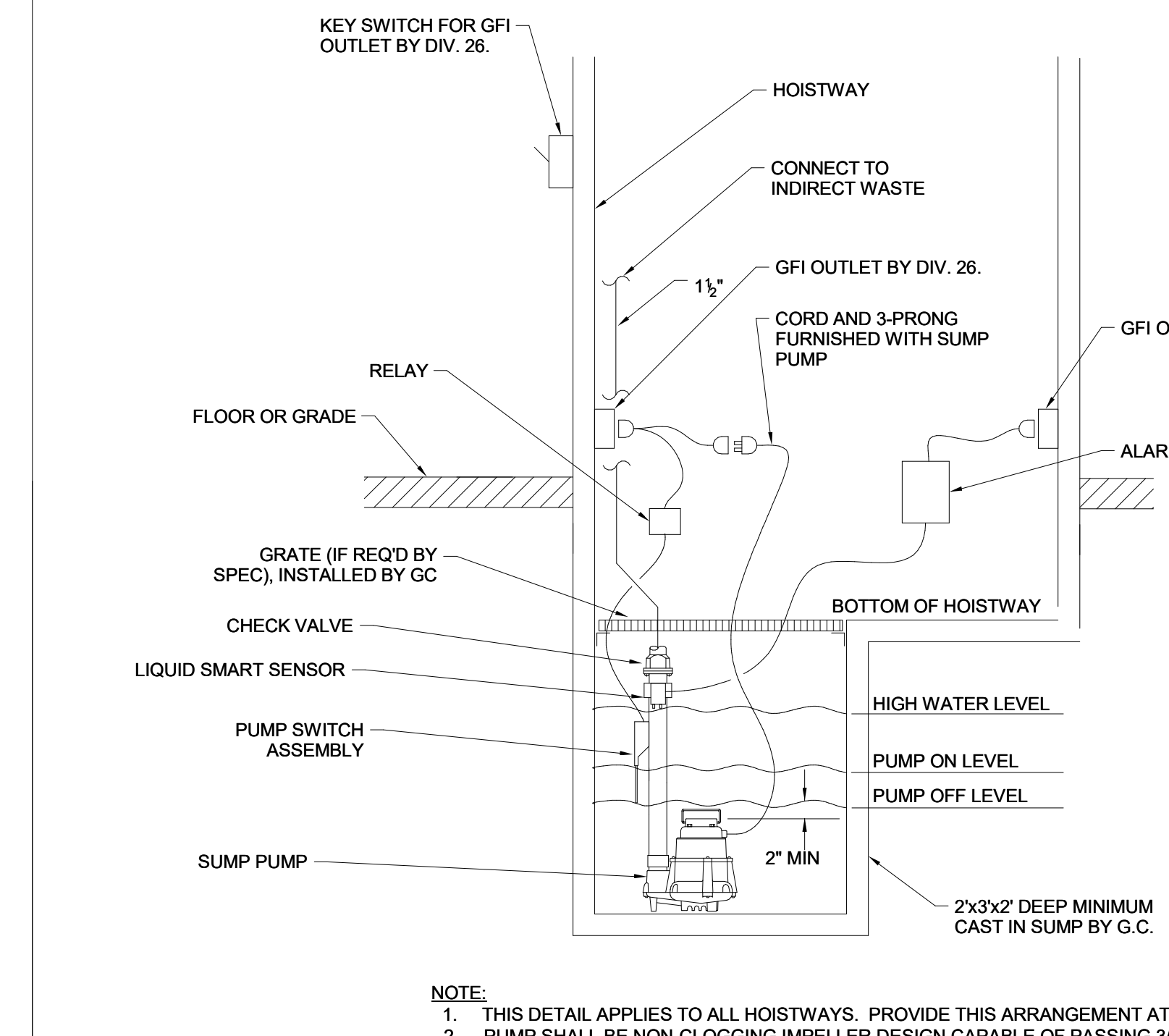
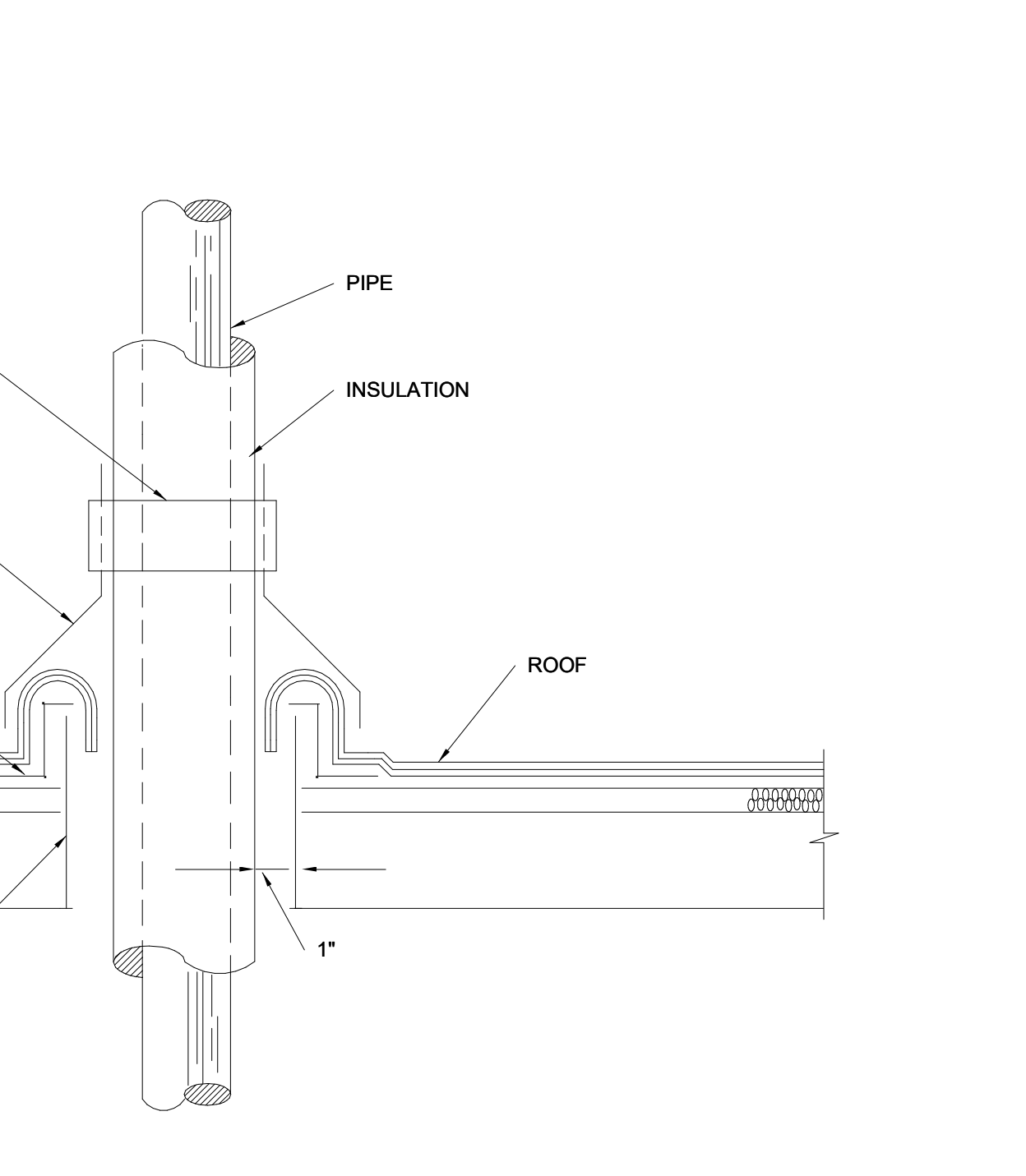
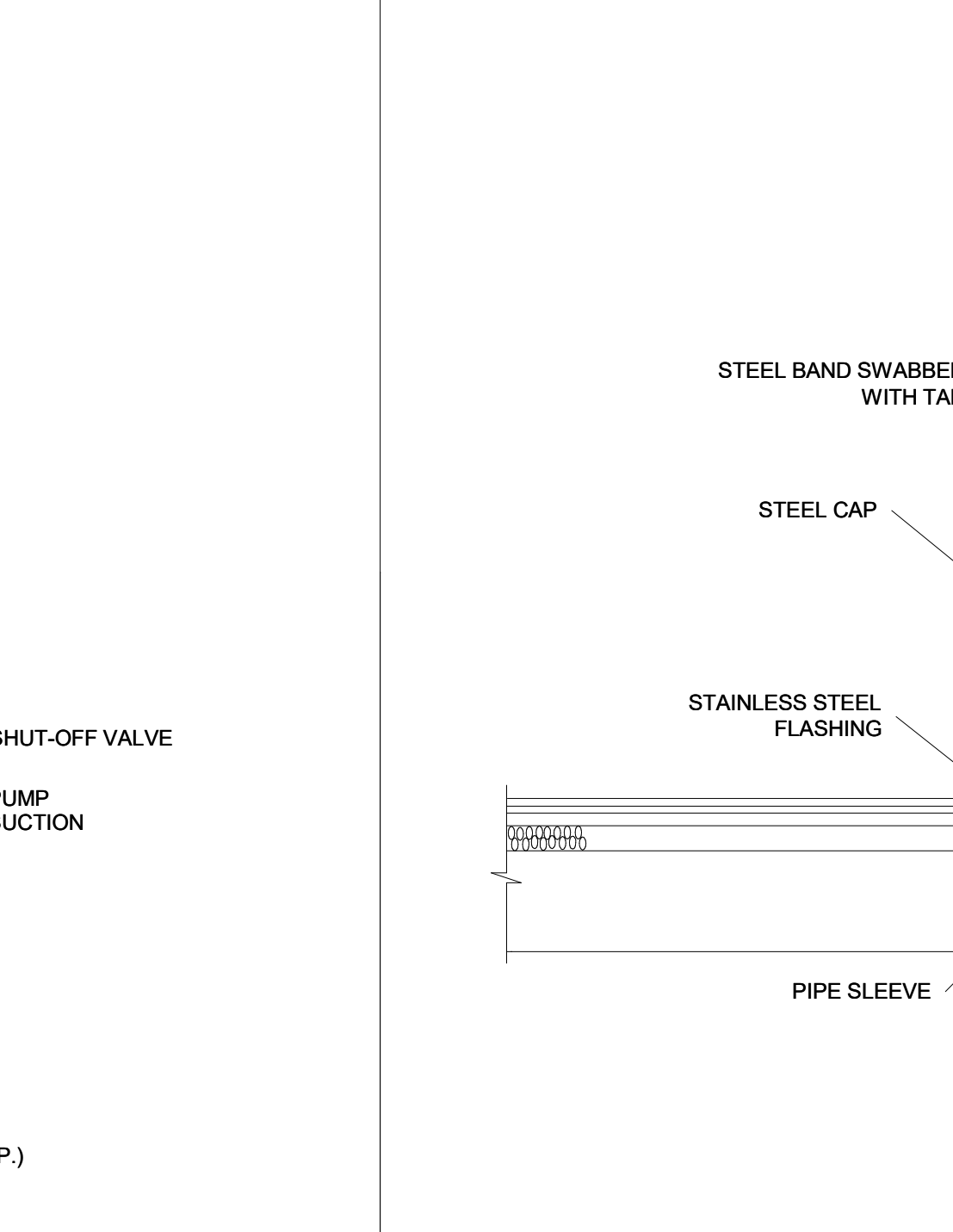
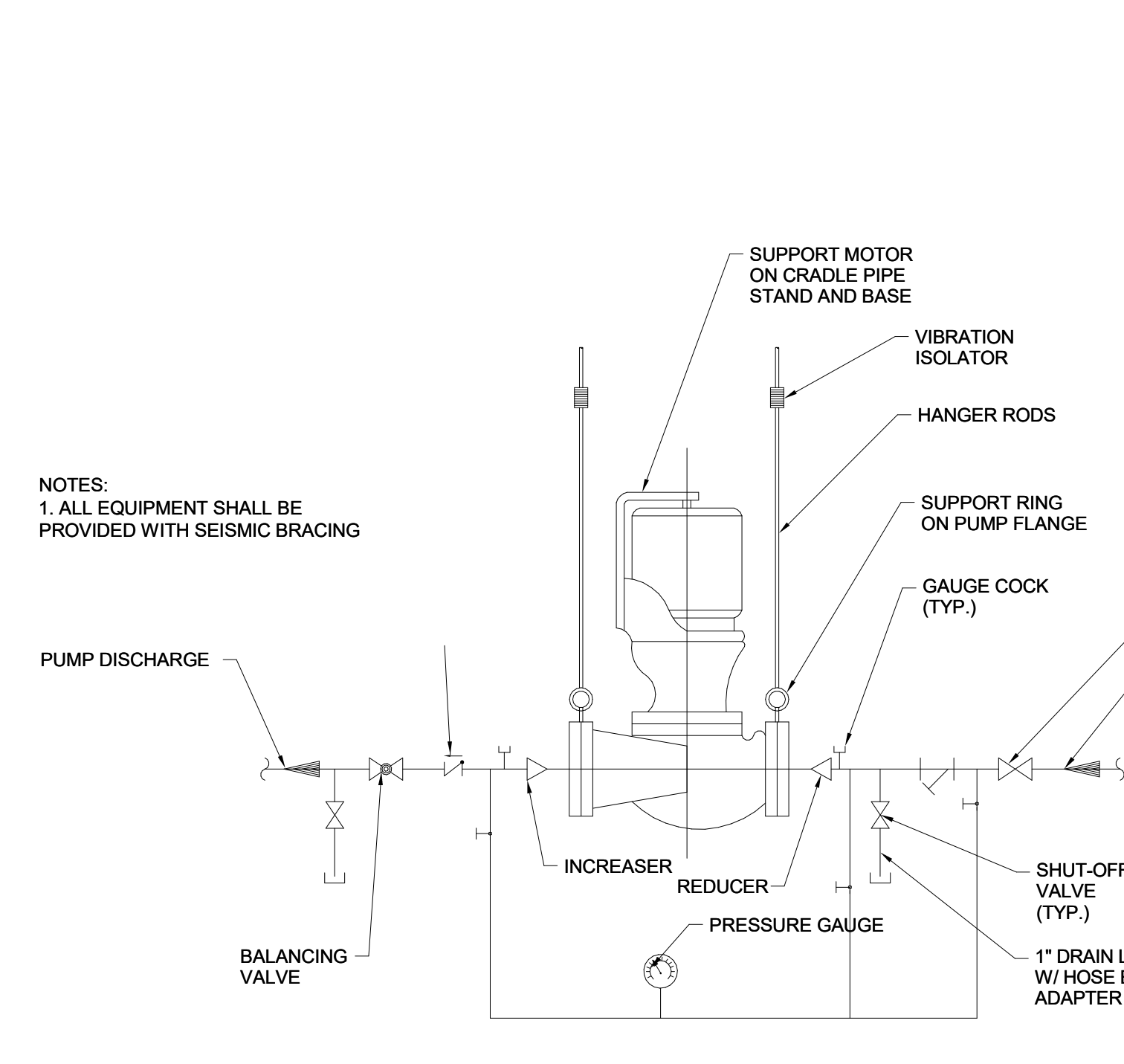
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D SMALL IN-LINE PUMP SUPPORT DETAIL
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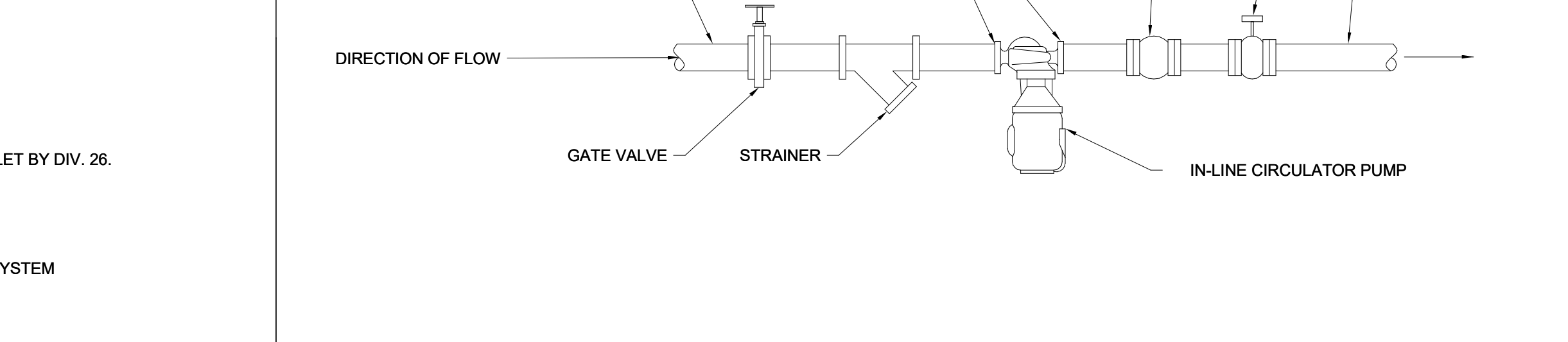
E HOT WATER CIRCULATION CONNECTION DETAIL
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F TYPICAL BASE SUPPORT DETAIL FOR PIPE RISERS
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F TYPICAL BASE SUPPORT DETAIL FOR PIPE RISERS
NO SCALE



J IN-LINE CIRCULATING PUMP INSTALLATION DETAIL
NO SCALE



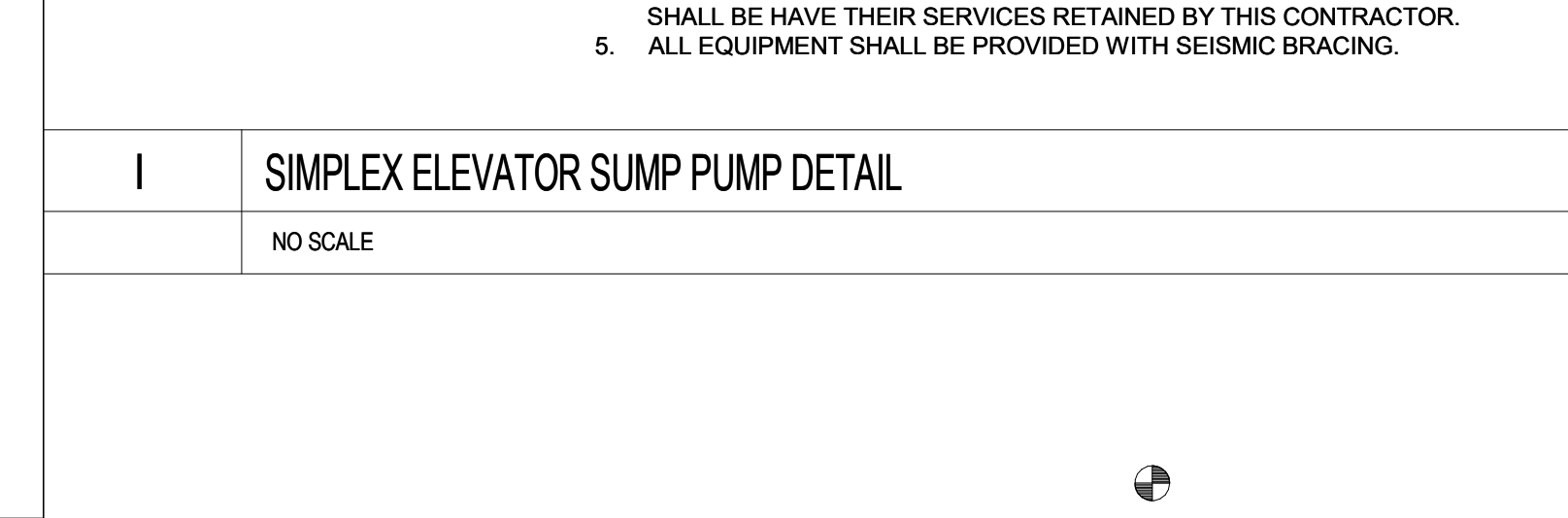
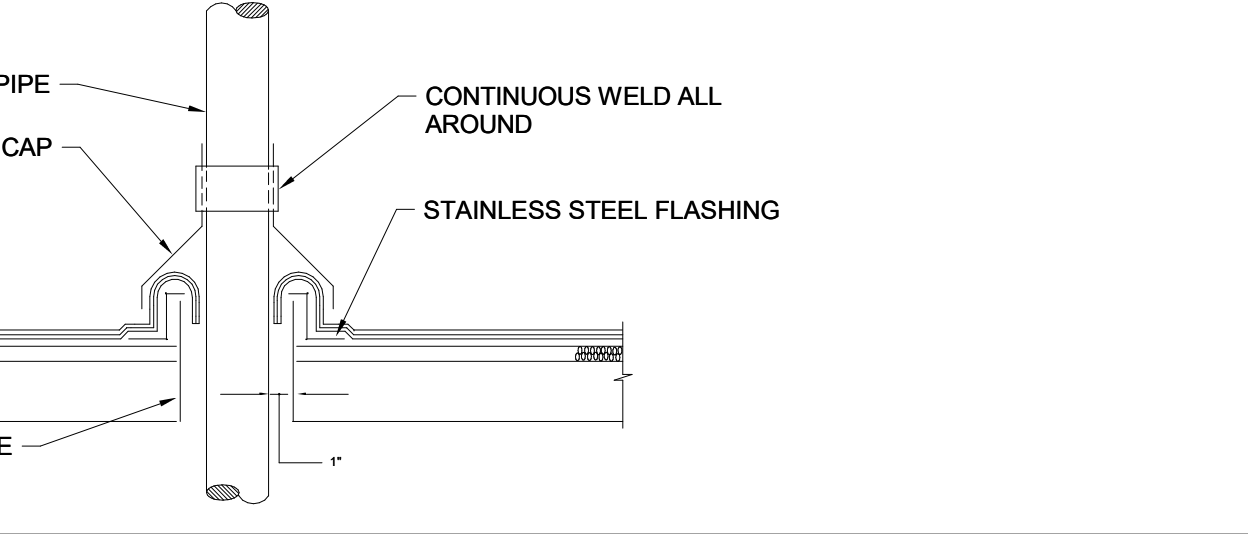
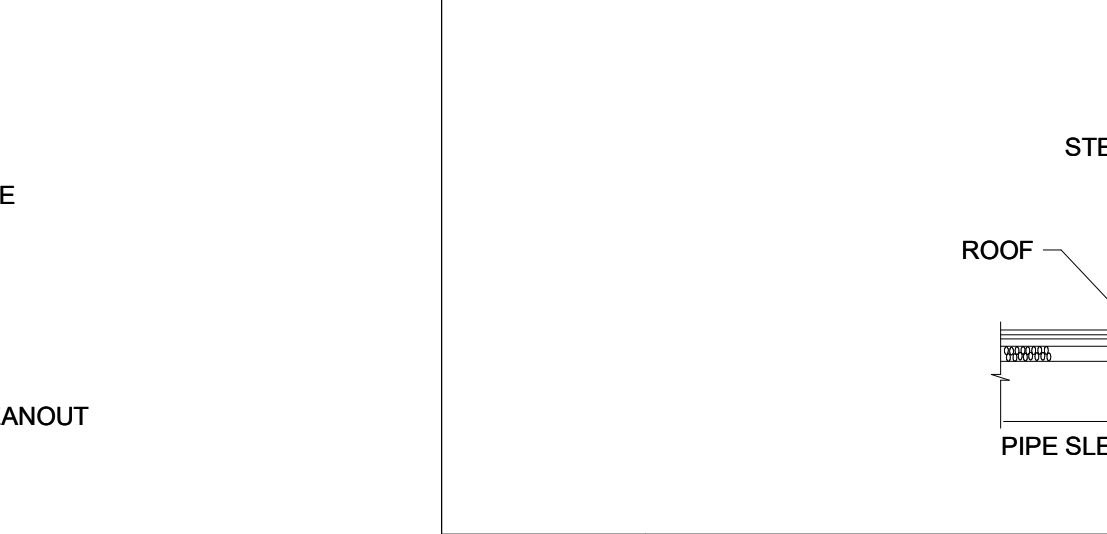
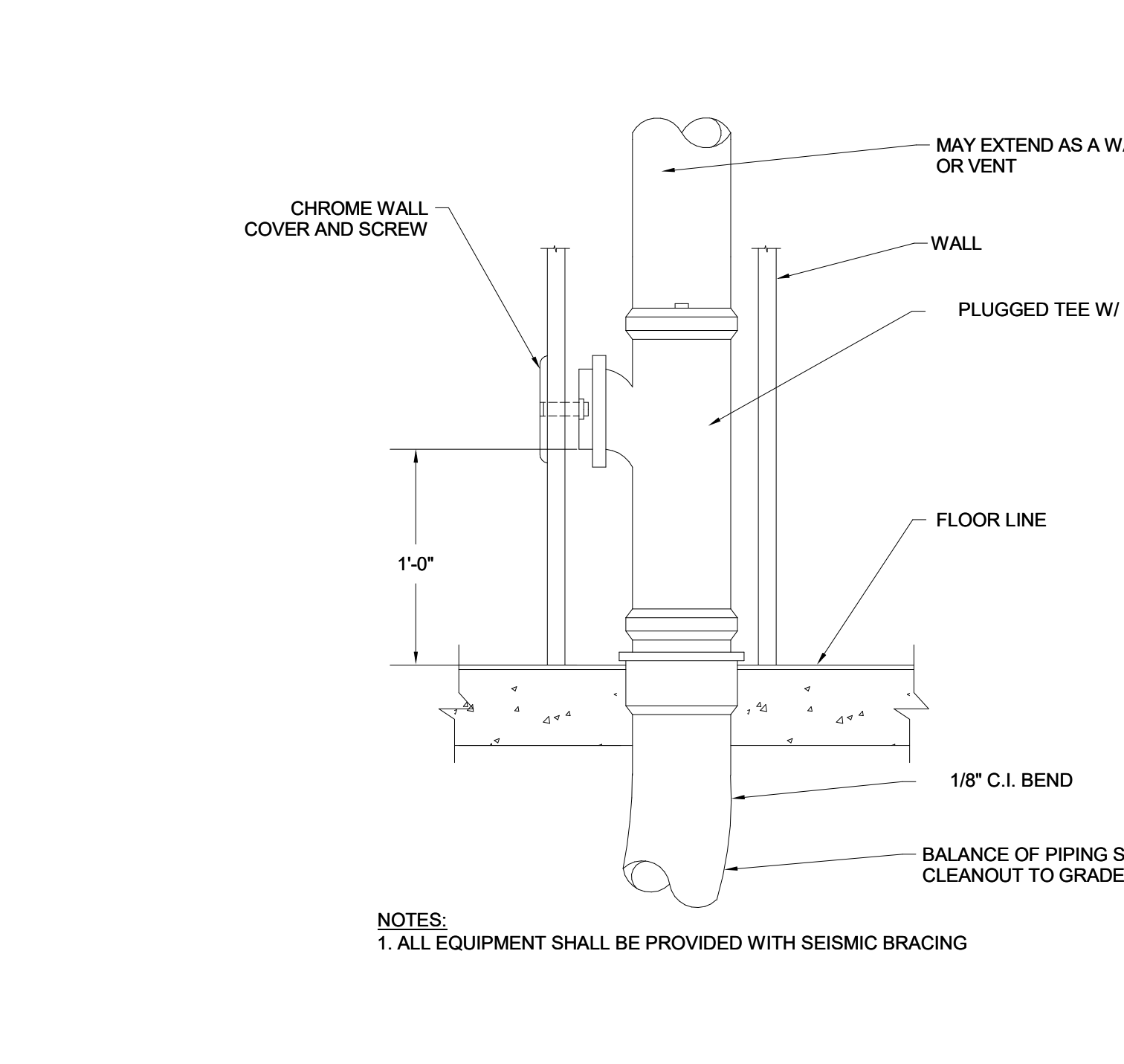
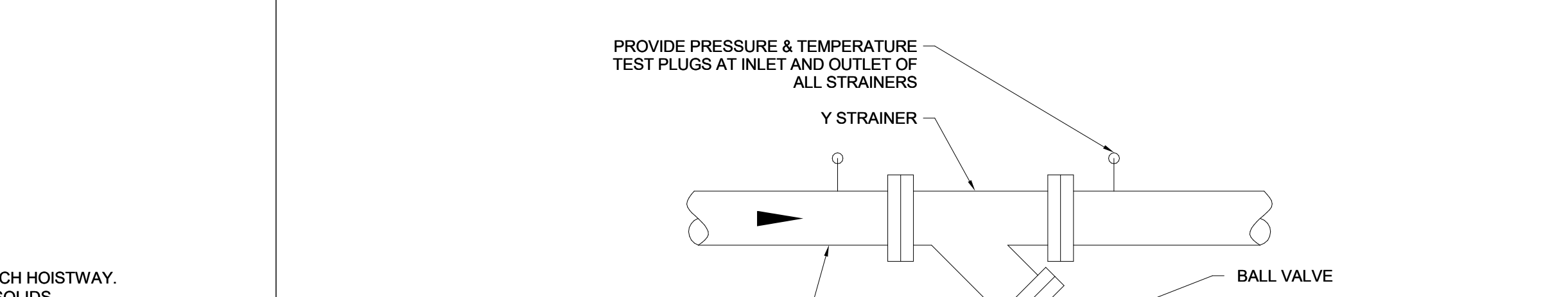
G IN-LINE CENTRIFUGAL PUMP DETAIL
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H DETAIL OF INSULATED PIPE THRU ROOF
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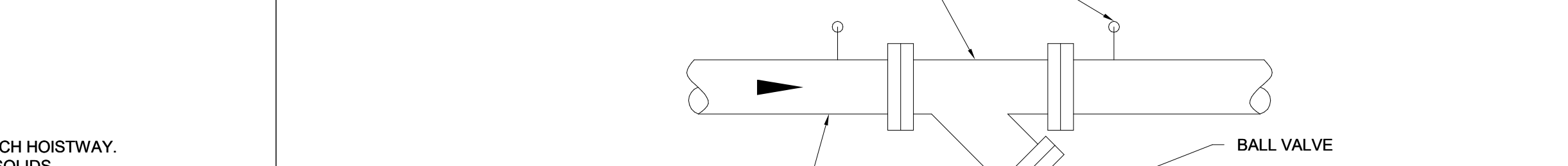
I SIMPLEX ELEVATOR SUMP PUMP DETAIL
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I SIMPLEX ELEVATOR SUMP PUMP DETAIL
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J IN-LINE CIRCULATING PUMP INSTALLATION DETAIL
NO SCALE



K STRAINER INSTALLATION DETAIL
NO SCALE



L WALL CLEANOUT DETAIL
NO SCALE

M DETAIL OF UNINSULATED PIPE THRU ROOF
NO SCALE

N PRESSURE DIFFERENTIAL BYPASS OR INJECTION CONTROL VALVE ARRANGEMENT
NO SCALE

O WATER FILTER AND PANTRY CONNECTION
NO SCALE

P TYPICAL ICE MACHINE CONNECTION DETAIL
NO SCALE

REVISIONS/ ISSUES

NO.	DESCRIPTION	DATE
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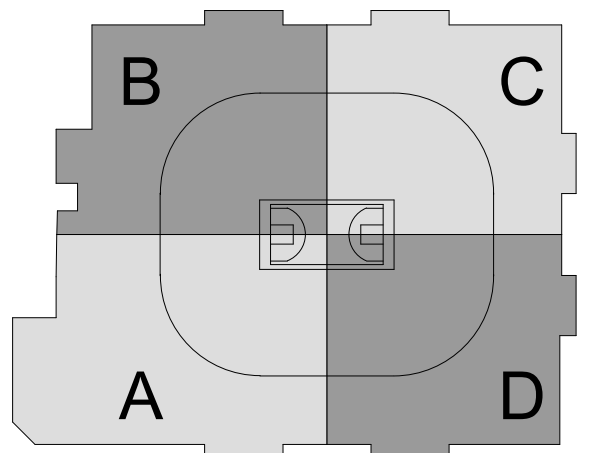
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DWG. TITLE: PLUMBING DETAILS II - PHASE 2

SCALE: 1/8" = 1'-0"
PRJ. NO: 1605
DWG. NO: P-701.PH2



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NO.	REVISION	DATE

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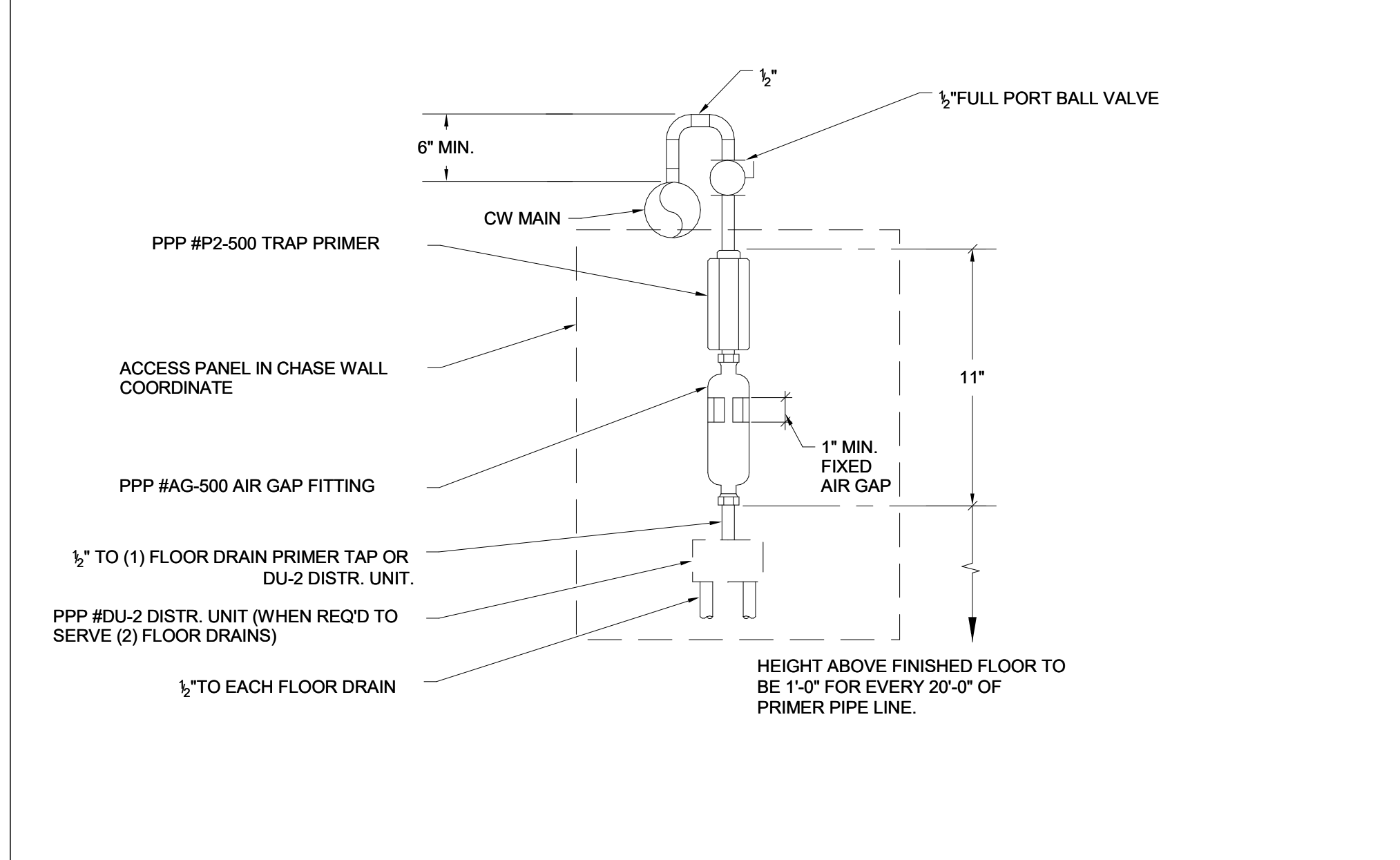
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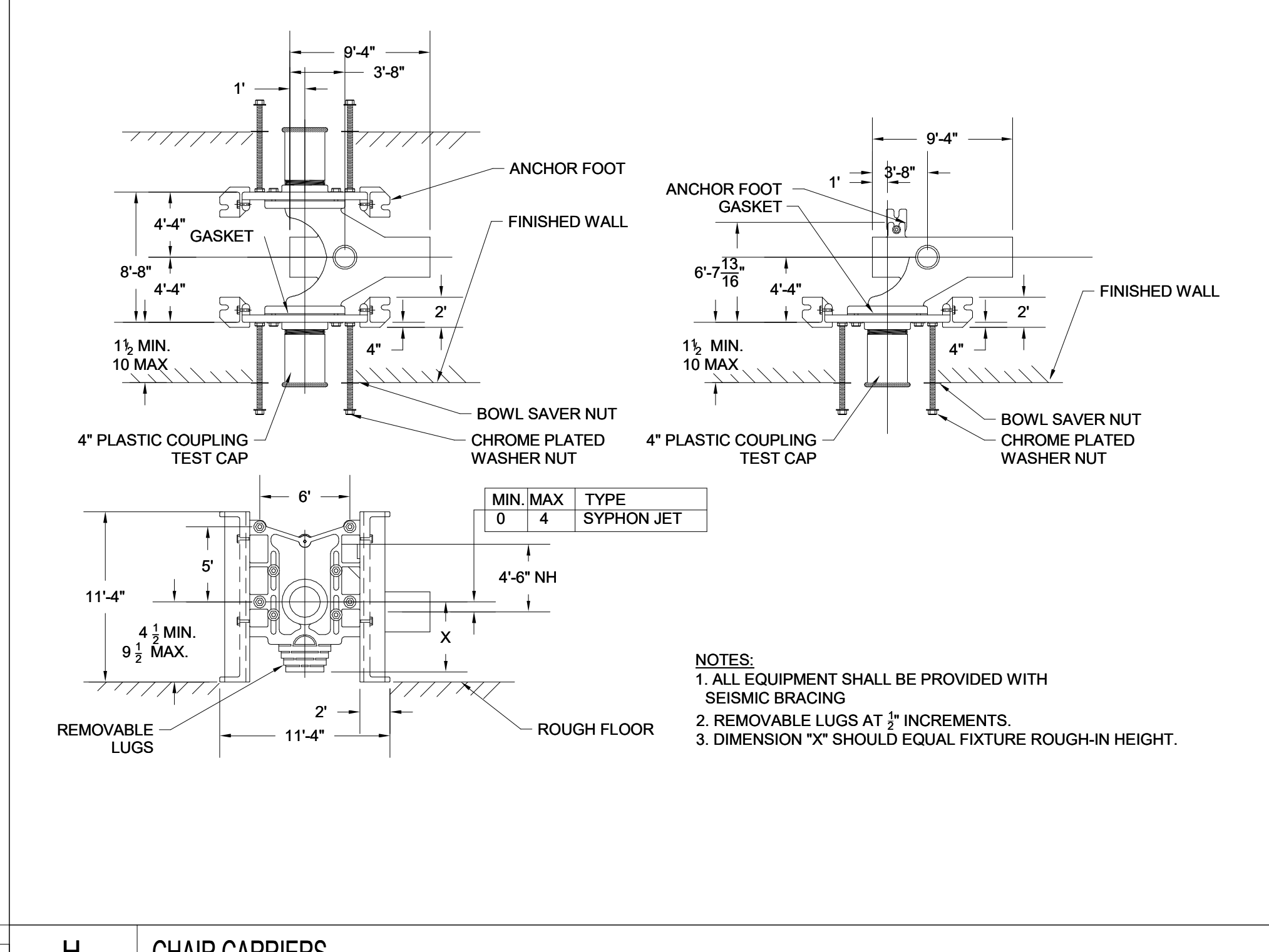
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DWG TITLE
PLUMBING DETAILS III - PHASE 2

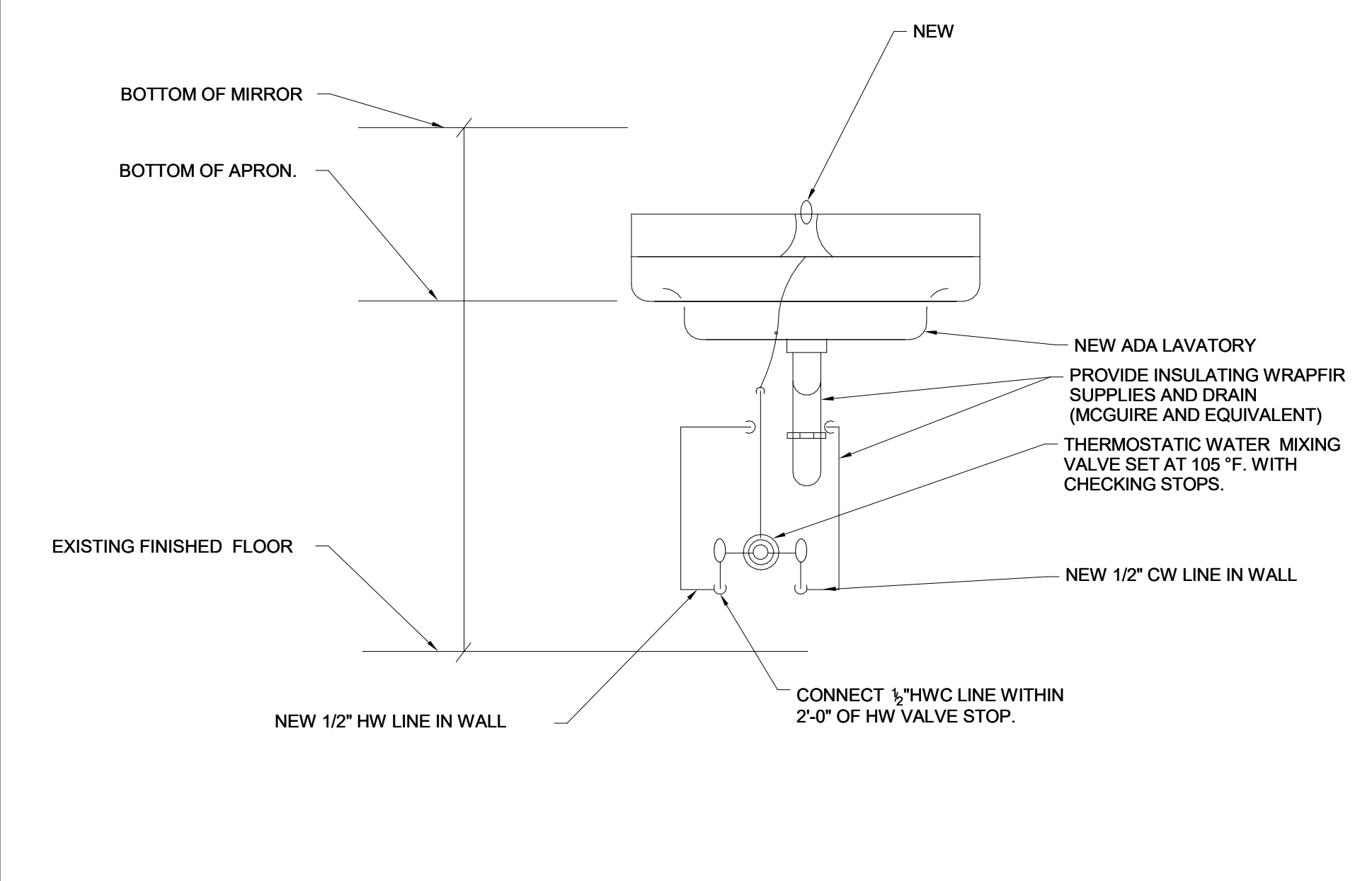
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PRJ NO: 1605



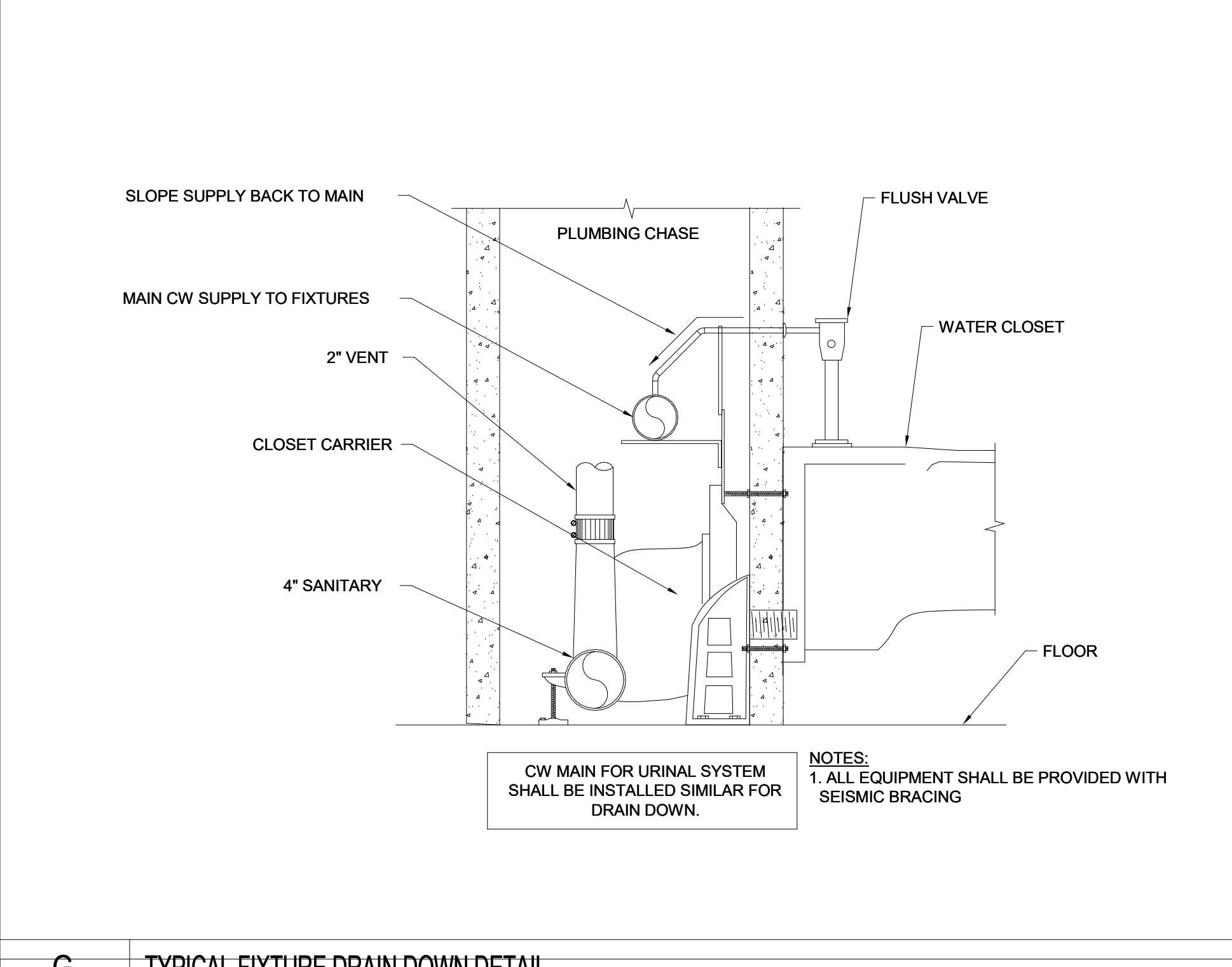
D TRAP PRIMER DETAIL
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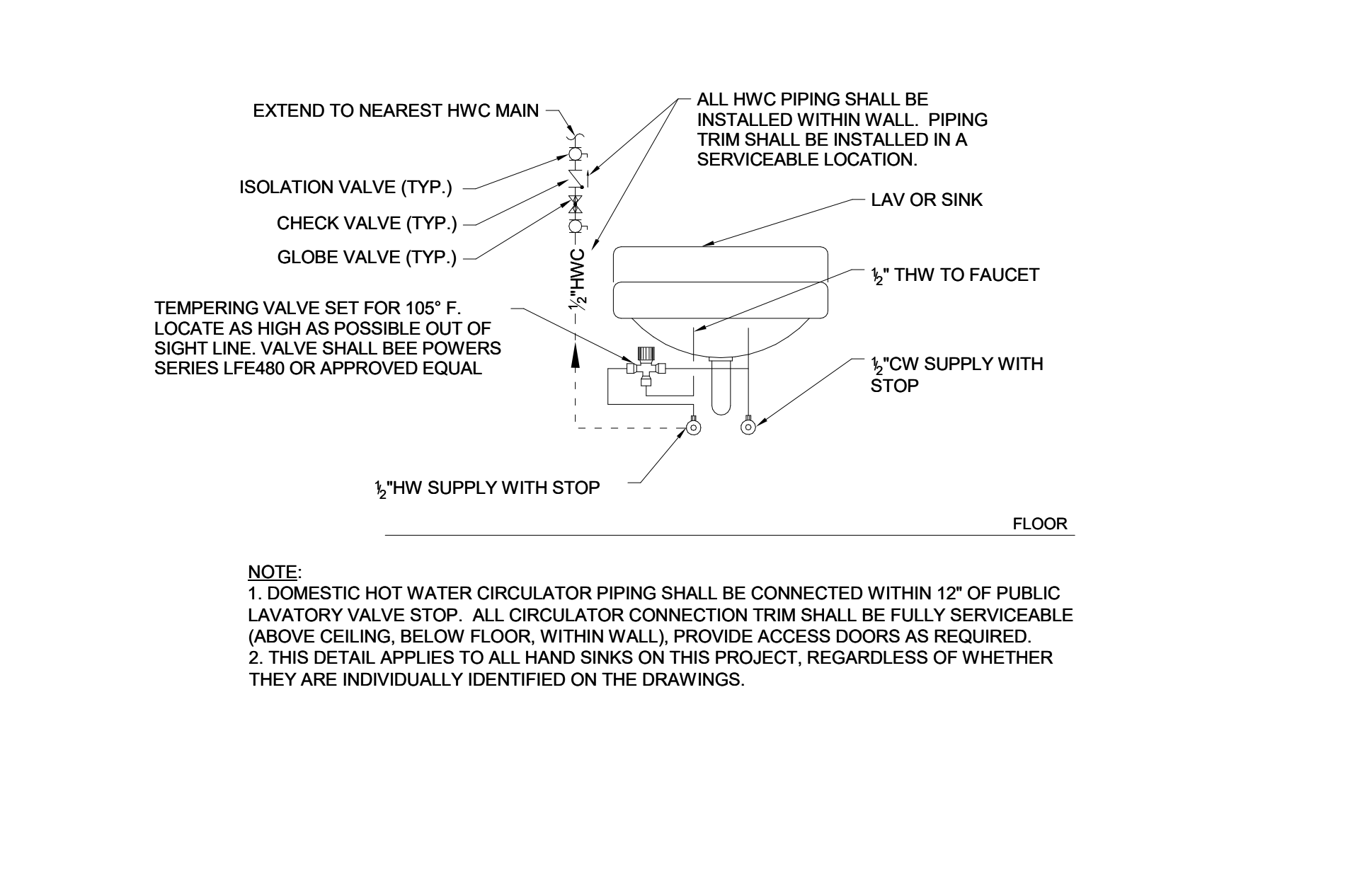
H CHAIR CARRIERS
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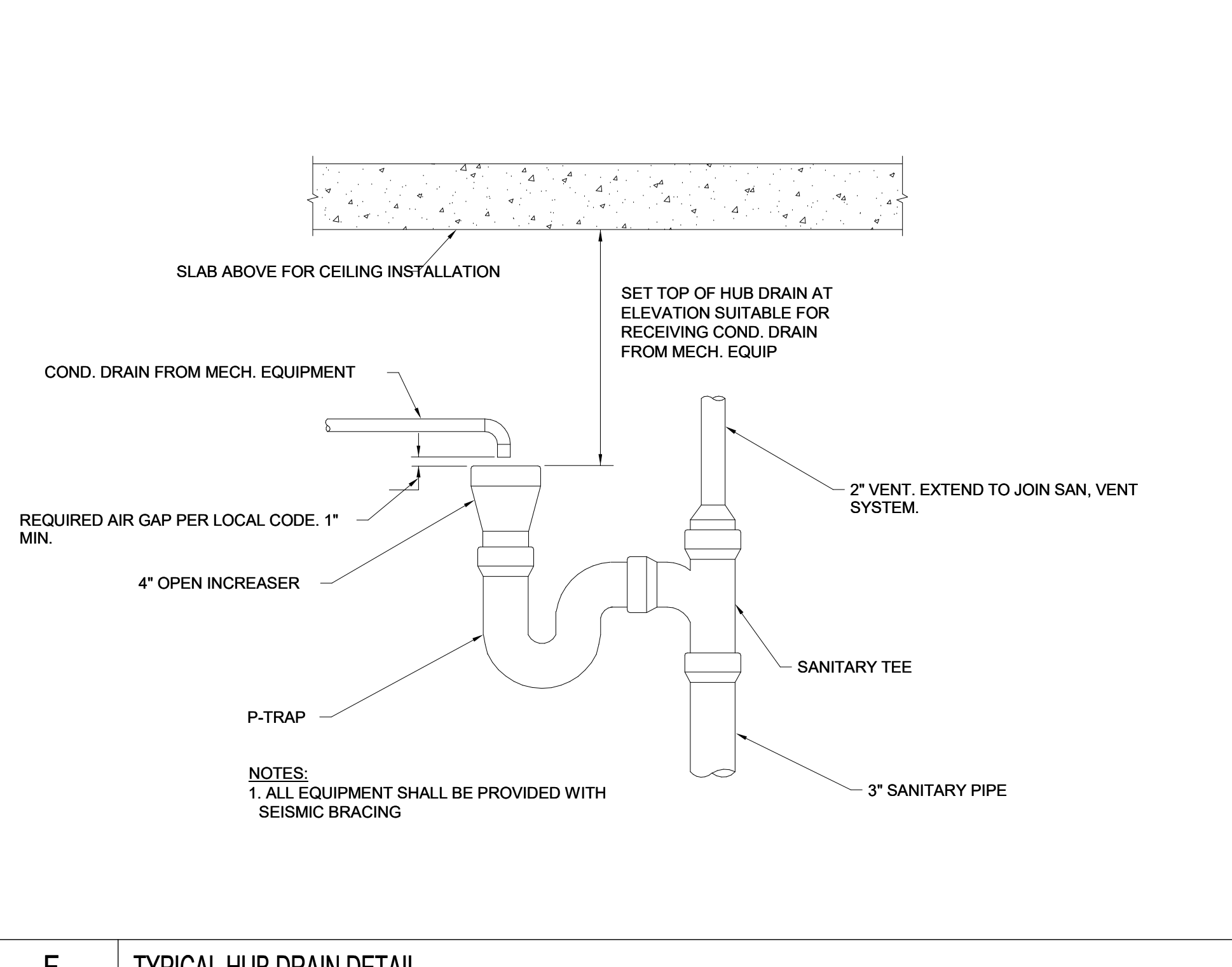
C NEW A.D.A. LAVATORY DETAIL
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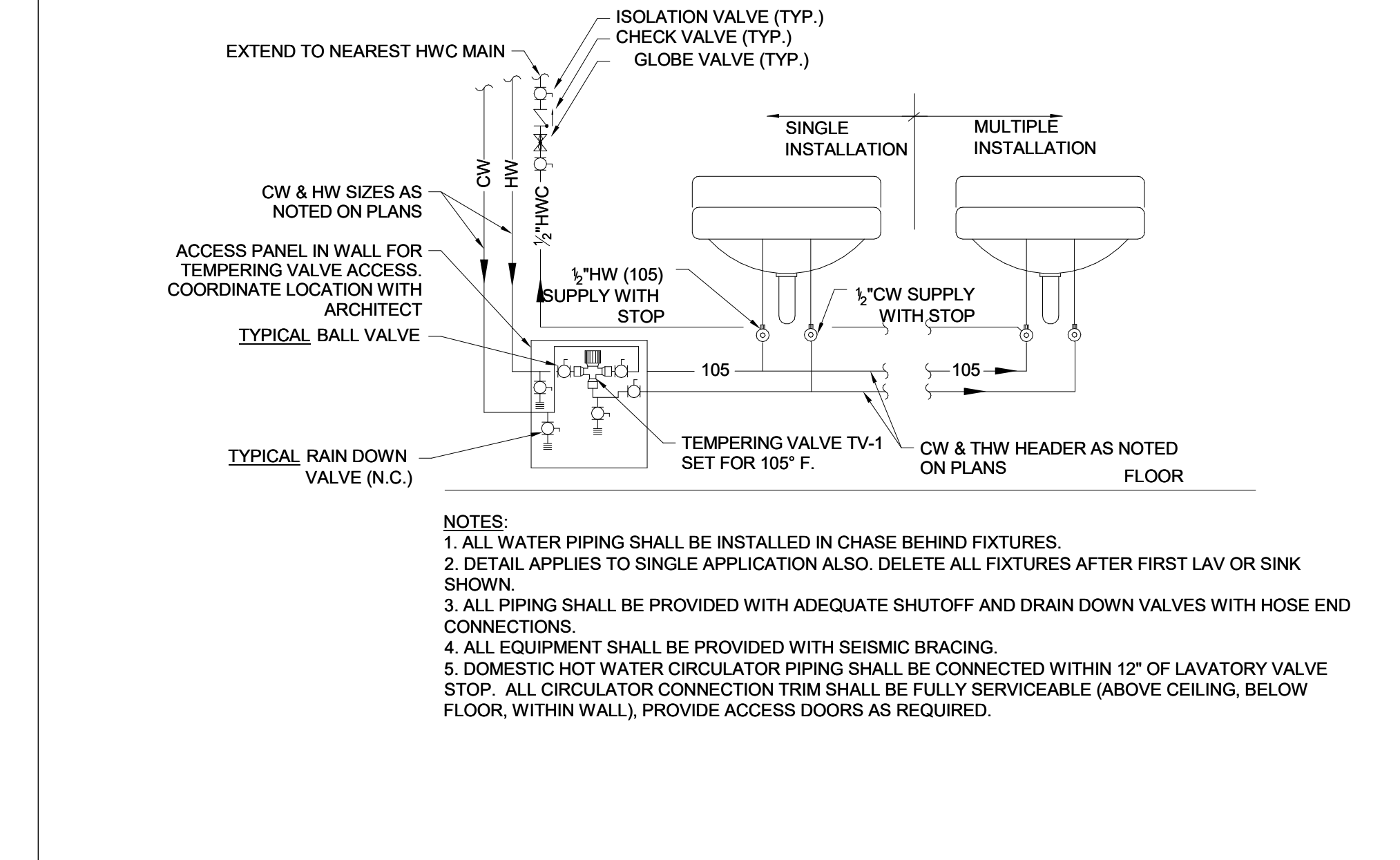
G TYPICAL FIXTURE DRAIN DOWN DETAIL
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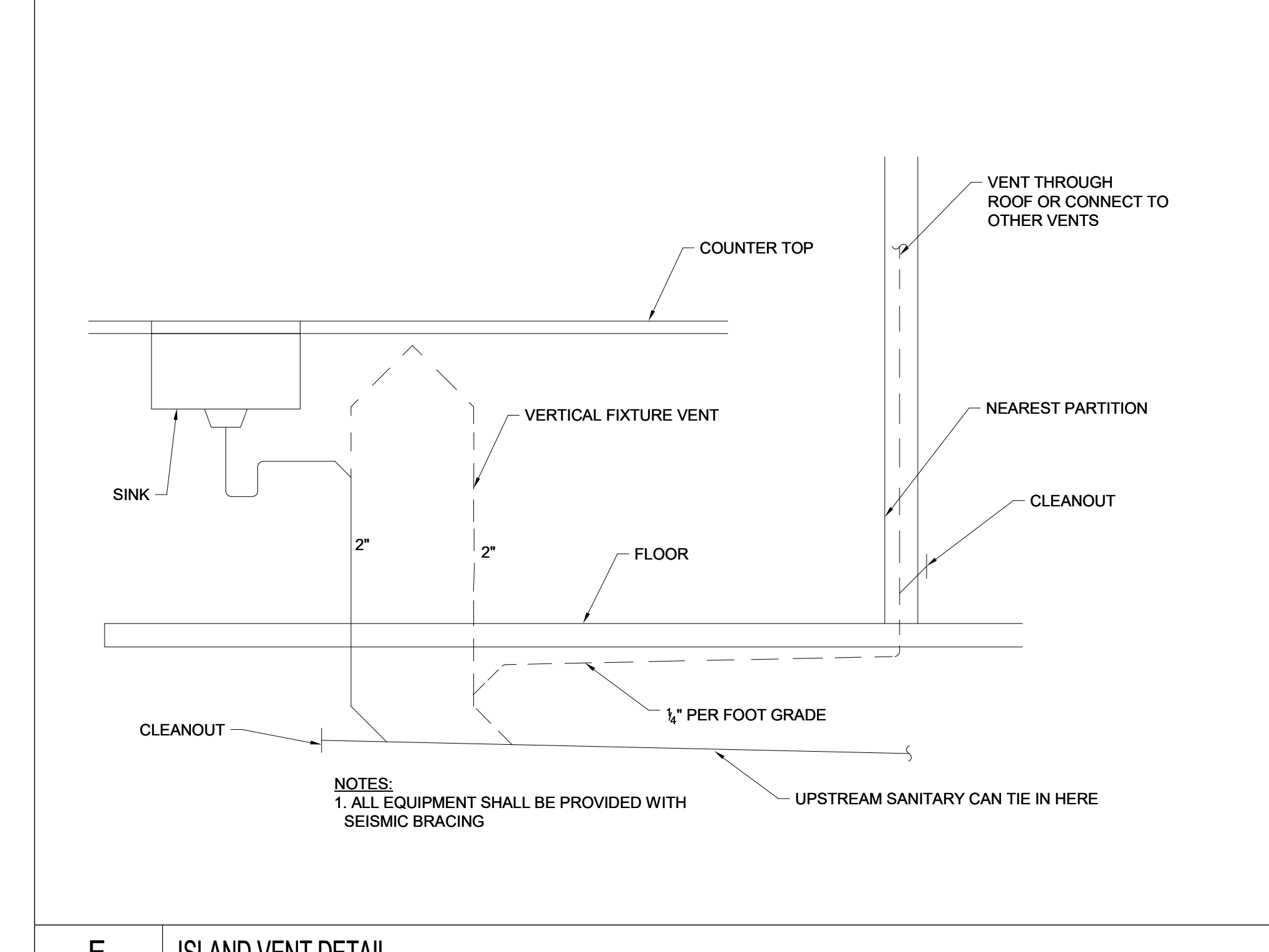
B LAV/HAND SINK TEMPERING VALVE DETAIL
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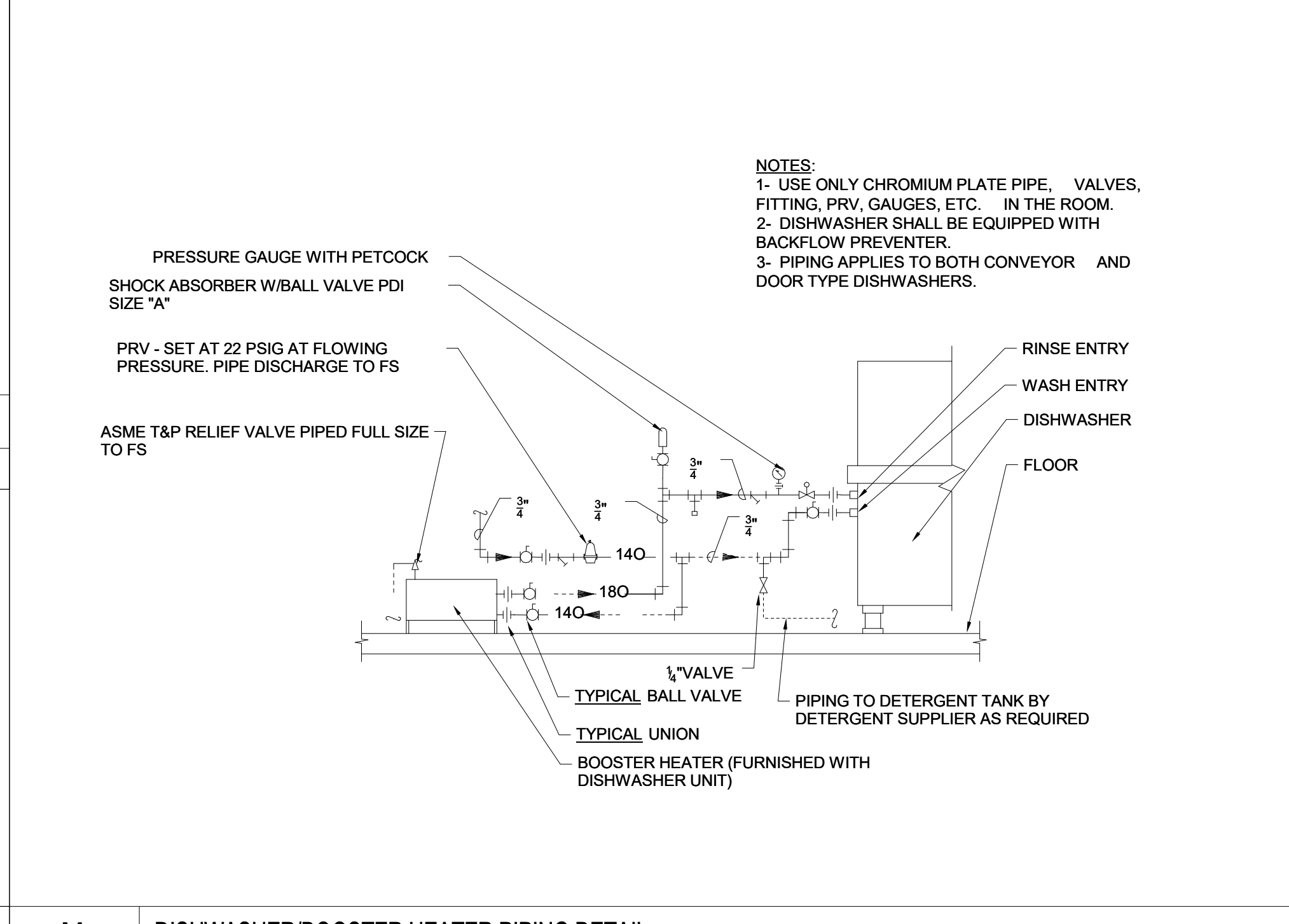
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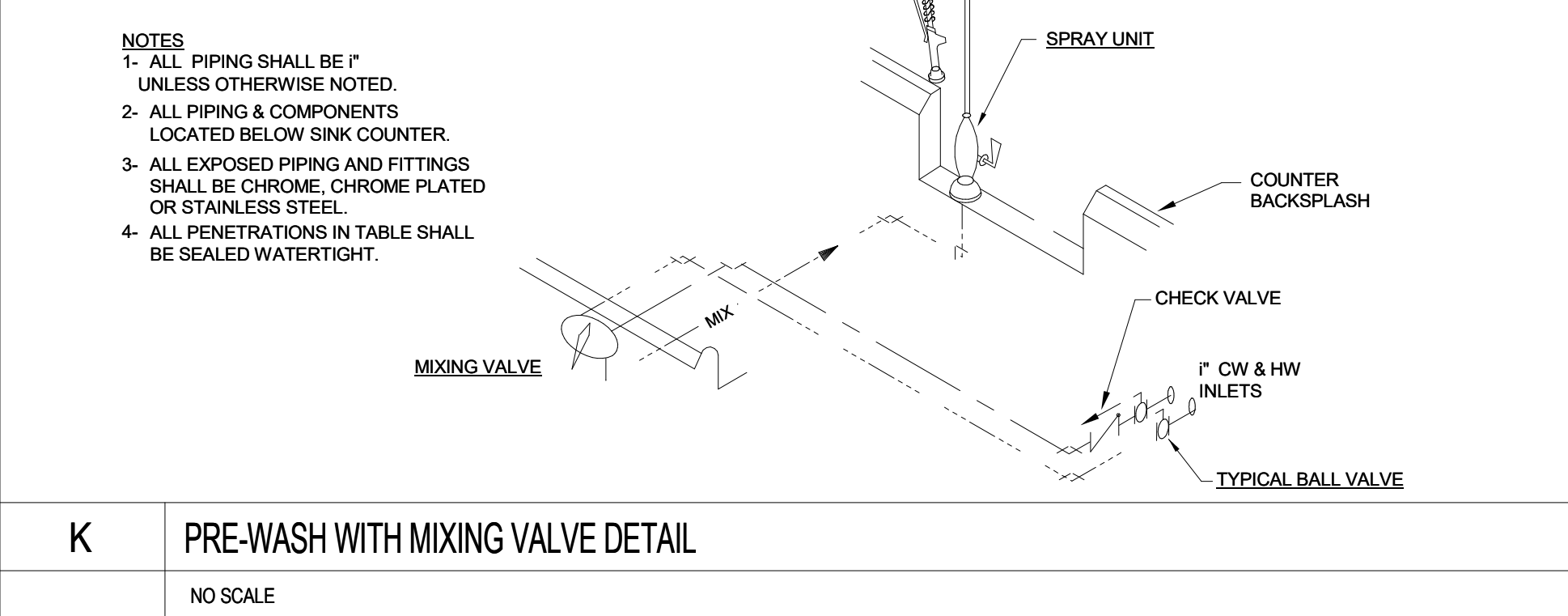
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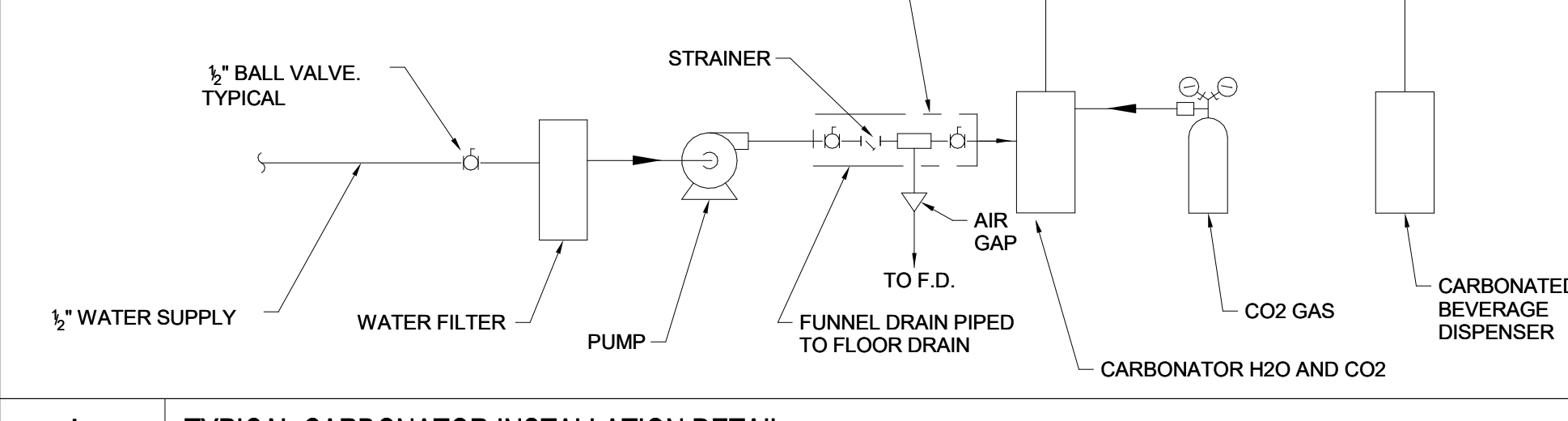
E ISLAND VENT DETAIL
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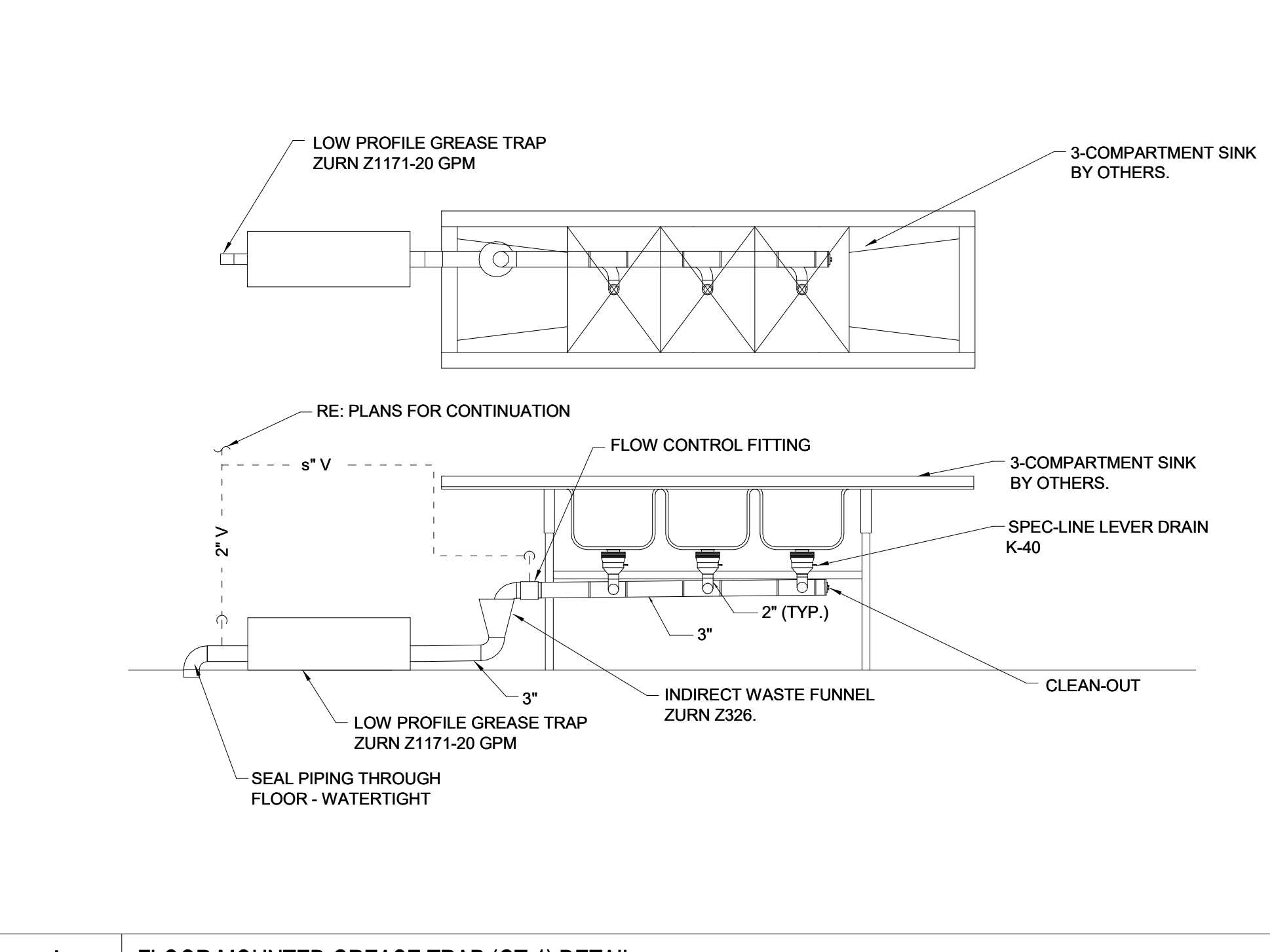
M DISHWASHER/BOOSTER HEATER PIPING DETAIL
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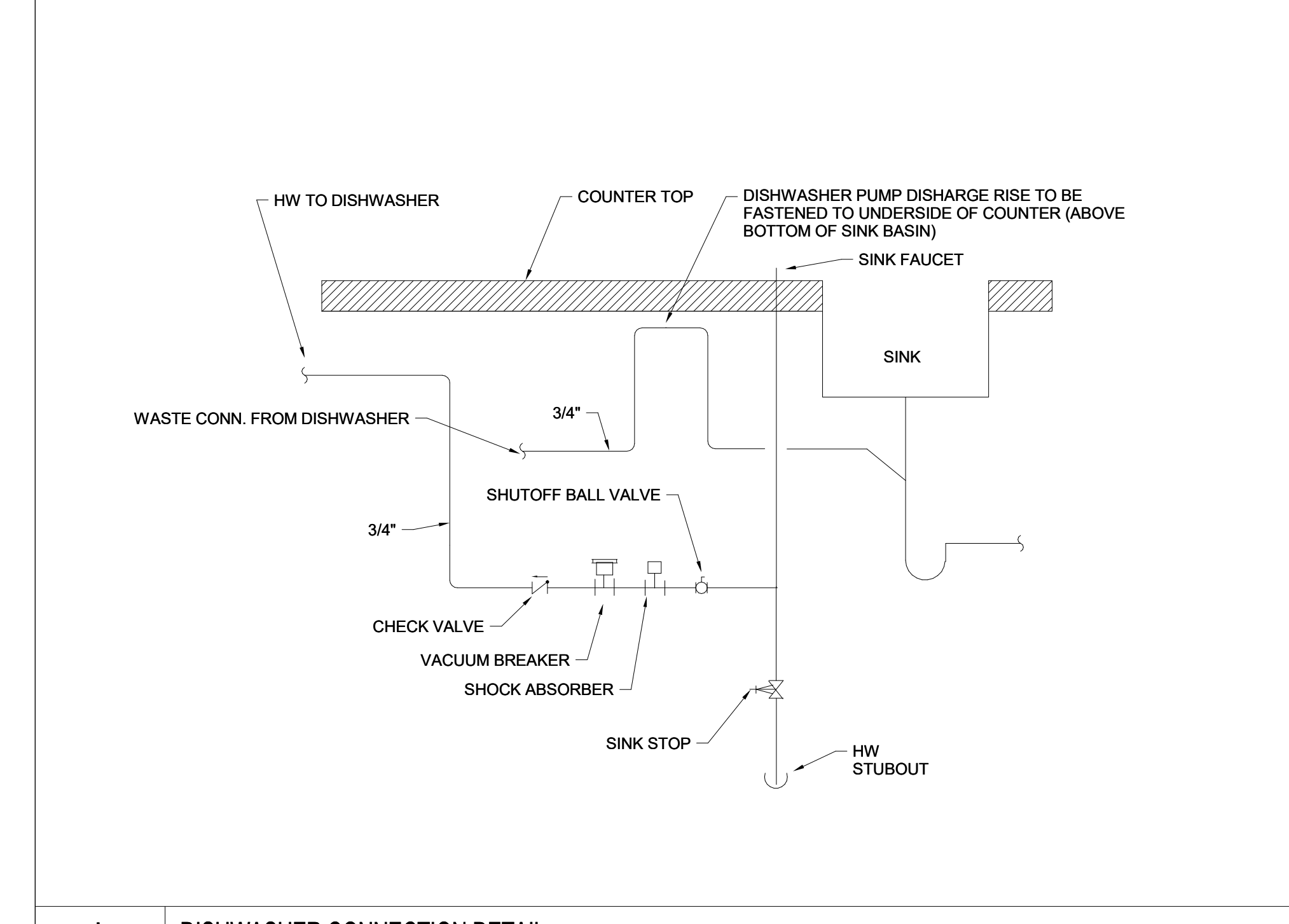
K PRE-WASH WITH MIXING VALVE DETAIL
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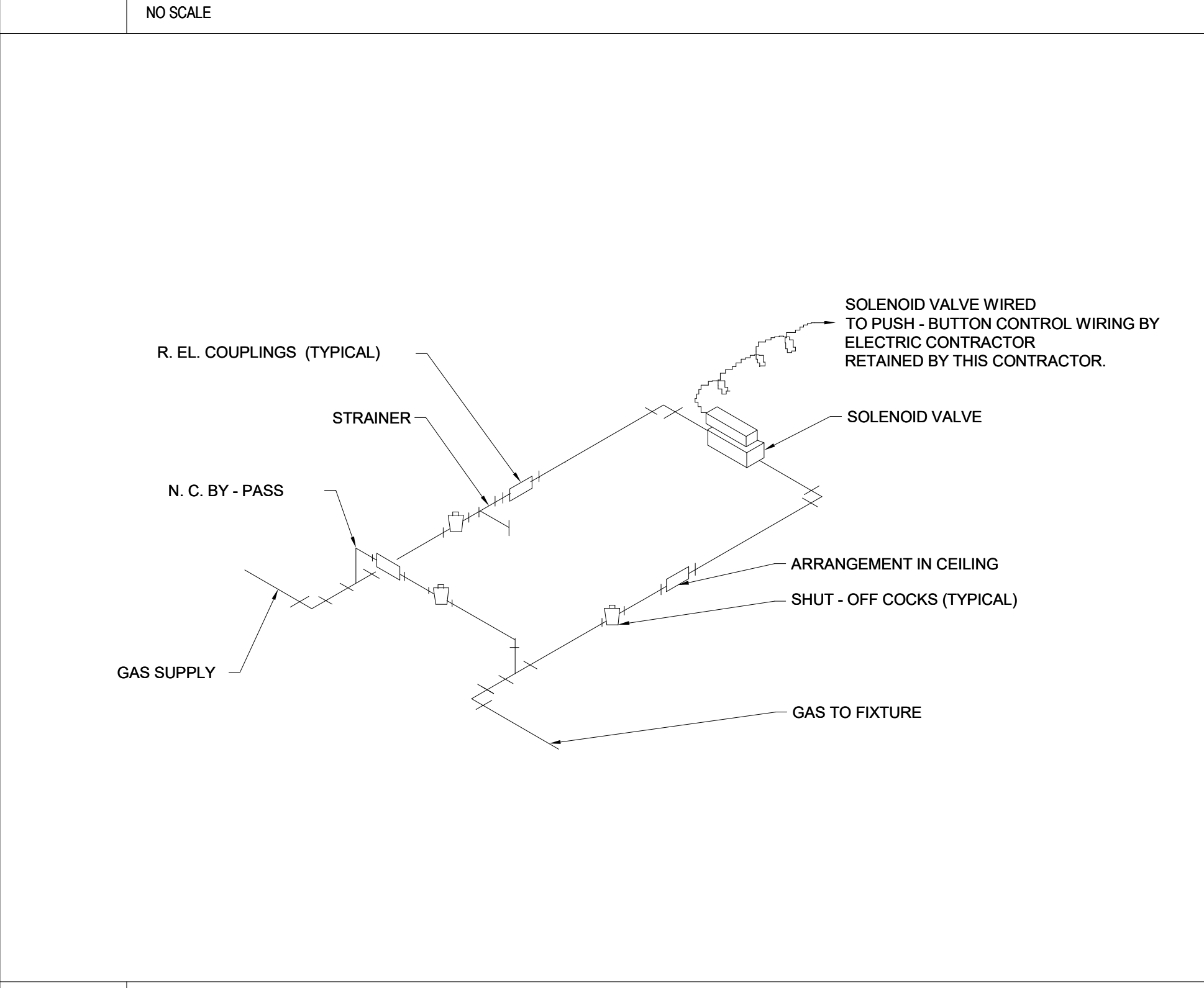
L TYPICAL CARBONATOR INSTALLATION DETAIL
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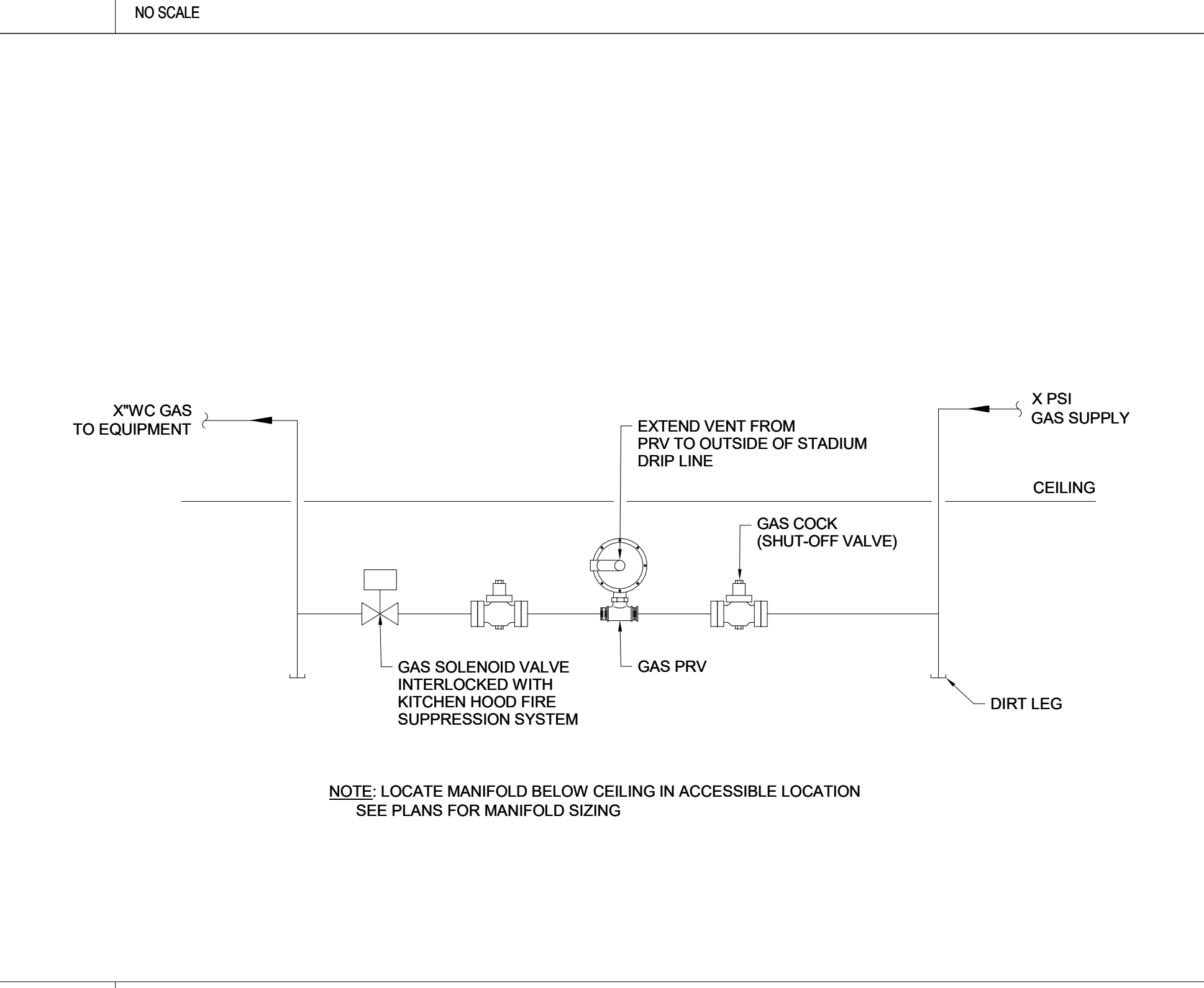
J FLOOR MOUNTED GREASE TRAP (GT-1) DETAIL
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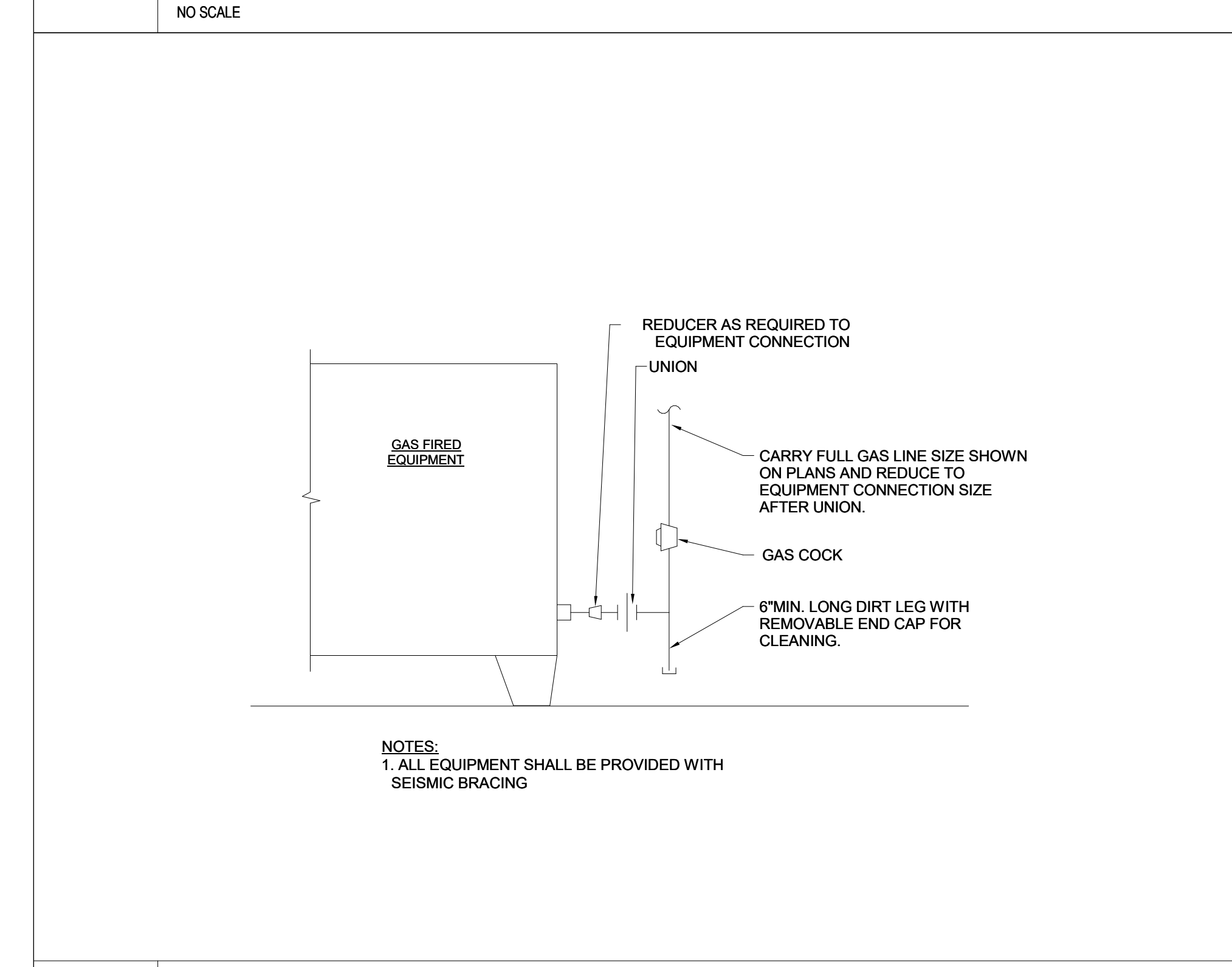
I DISHWASHER CONNECTION DETAIL
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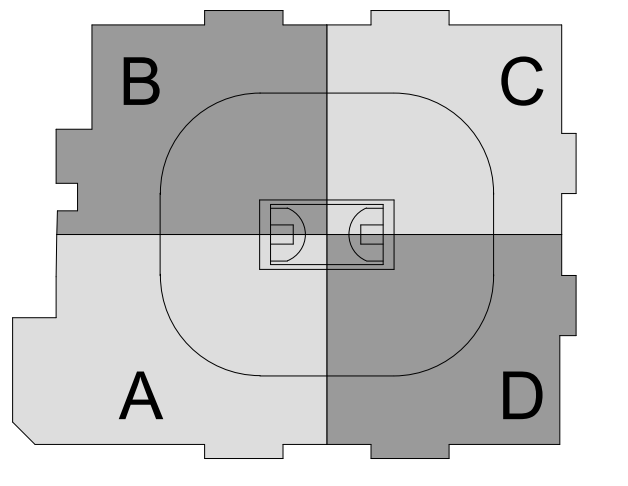
P DETAIL OF GAS SOLENOID VALVE CONNECTION
NO SCALE



O GAS MANIFOLD DETAIL (SERVING FOOD SERVICE EQUIPMENT)
NO SCALE



N TYPICAL GAS PIPING CONNECTION TO EQUIP.
NO SCALE



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SPRINKLER LEGEND

(NOT ALL SYMBOLS LISTED BELOW ARE BEING USED IN THIS SET OF SPRINKLER DRAWINGS)

GENERAL SYMBOLS/ ABBR. Table with columns: SYMBOL, ABBR, DESCRIPTION. Includes symbols for section views, sheet key notes, POC, POD, POF, RISE, DROP, and various floor levels.

GENERAL PIPING Table with columns: SYMBOL, ABBR, DESCRIPTION. Includes symbols for existing and to be removed sprinkler piping, SP, ST, DR, and pipe sizes.

VALVES Table with columns: SYMBOL, ABBR, DESCRIPTION. Includes symbols for DV, CV, PRV, BV, TRP, TR, STR, GV, OSBY, and valve with taper switch.

SPRINKLER HEADS Table with columns: SYMBOL, ABBR, DESCRIPTION. Includes symbols for existing heads to remain, be removed, upright, under obstruction, concealed, extended coverage, and various rated heads (D, HT, EC).

FIRE PUMP ABBR. Table with columns: SYMBOL, ABBR, DESCRIPTION. Includes FP, JP, and JOCKEY PUMP.

FIRE PROTECTION ASSEMBLIES Table with columns: SYMBOL, ABBR, DESCRIPTION. Includes SIA, FCVA, FHC, FHV, and DCCA.

FITTINGS Table with columns: SYMBOL, ABBR, DESCRIPTION. Includes symbols for expansion joints, unions, connectors, flow switches, pressure switches, and gauges.

MECHANICAL/PLUMBING/SPRINKLER/ELECTRICAL COORDINATION REQUIREMENTS. Text detailing coordination requirements for mechanical, plumbing, and sprinkler equipment.

SPRINKLER HEAD SCHEDULE Table with columns: DESCRIPTION, MANUFACTURER, MODEL NO., K-FACTOR, REQ. PRESSURE (PSI), MEA #, REMARKS. Lists various head types like Quick Response Sidewall, Concealed Pendant, etc.

GENERAL FIRE PROTECTION CONTRACT REQUIREMENTS:

GENERAL:

- 1. UNLESS OTHERWISE NOTED, THE WORK DESCRIBED ON THE PLANS AND SPECIFICATIONS SHALL INCLUDE THE FURNISHING AND INSTALLATION OF ALL LABOR AND MATERIALS NECESSARY FOR COMPLETE AND OPERATIONAL HVAC, FIRE PROTECTION AND PLUMBING SYSTEMS... 2. DATA GIVEN ON THE DRAWINGS IS AS EXACT AS COULD BE SECURED... 3. THE DRAWINGS ARE DIAGRAMMATIC IN NATURE AND SHALL NOT BE SCALED... 4. THE CONTRACTOR SHALL VISIT THE SITE BEFORE SUBMITTING A BID... 5. DEFINITIONS AND TERMINOLOGY... 6. "CONTRACT DOCUMENTS" CONSTITUTE THE DRAWINGS, SPECIFICATIONS, GENERAL CONDITIONS, PROJECT MANUALS, ETC... 7. "FURNISH" MEANS TO "SUPPLY" AND USUALLY REFERS TO AN ITEM OF EQUIPMENT... 8. "EQUIVALENT" MEANS "MEETS THE SPECIFICATIONS OF THE REFERENCE PRODUCT OR ITEM IN ALL SIGNIFICANT ASPECTS"...

TO DRILLING OR CUTTING. COORDINATE ALL NEW PENETRATIONS WITH OTHER DIVISIONS OF THE WORK. ALL PENETRATIONS ARE INDIVIDUALLY RESPONSIBLE FOR ALL PENETRATIONS REQUIRED BY THIS SPEC.

PROPER EXECUTION OF WORK. 2. BE RESPONSIBLE FOR ALL CUTTING AND PATCHING NECESSARY FOR THE COMPLETION OF THE WORK. 3. NO CUTTING NOT SHOWN ON THE CONTRACT DOCUMENTS SHALL BE DONE WITHOUT THE APPROVAL OF THE ARCHITECT AS TO LOCATIONS, METHOD AND EXTENT OF THE CUTTING. 4. REPAIR ALL ACCIDENTAL OR INTENTIONAL DAMAGE TO MATCH EXISTING CONSTRUCTION WITH NO NOTICEABLE DIFFERENCE IN CONTINUITY, APPEARANCE OR FUNCTION. 5. DEMOLISH AND CAP ALL INDICATED PIPING BACK AT NEAREST MAIN.

FIRE PROTECTION NOTES RELATING TO CONSTRUCTION

- 1. CONTRACTOR SHALL INCLUDE DRAWINGS, SPECIFICATIONS, AND CALCULATIONS FOR TEMPORARY SPRINKLER COVER TO INSURE FIRE SAFETY DURING CONSTRUCTION TO COMPLY WITH THE CURRENT CODES AND DOB, FIRE DEPARTMENT (FD), AND OSHA. 2. BIDDERS SHALL INCLUDE LINE-ITEM COST FOR FD AND DOB COMPLIANT FIRE PROTECTION SYSTEMS. THIS SHALL INCLUDE ALL REQUIRED TEMPORARY SYSTEMS AS WELL AS MAINTENANCE, ALTERATION AND RELOCATION OF THESE SYSTEMS AS REQUIRED TO ADAPT TO ONGOING CONSTRUCTION. 3. OWNER SHALL SUBMIT A LETTER TO THE FD REQUESTING APPROVAL OF FIRE PROTECTION METHOD DURING CONSTRUCTION. THE LETTER SHALL ADDRESS: A. SCOPE OF WORK B. METHOD OF INSTALLATION C. MAINTENANCE PROCEDURE, INCLUDING: 1) SYSTEM OPERATION 2) SHUT-DOWN AND CUT-IN 3) DAILY RETURN OF SERVICE 4) FD NOTIFICATIONS 5) FIRE-GUARD AND LOG OF INSPECTIONS 6) CONTINUOUS STANDPIPE SERVICE 7) MAINTENANCE OF ACCESSIBILITY OF HOSE STATIONS 8) TENANT ELEVATOR BYPASS 9) OPERATION OF MANUAL PULL STATIONS 10) VISIBILITY AND MARKING OF EXITS 11) PROTECTION OF ELEVATORS AND STAIRWAYS 12) PROVISION OF PORTABLE FIRE EXTINGUISHERS 13) REMOVAL OF COMBUSTIBLE WASTE ON A DAILY BASIS 14) ENFORCEMENT OF NO SMOKING POLICY

HYDRAULIC SPRINKLER SIZING CRITERIA

- 1. OCCUPANCY CLASSIFICATION = LIGHT HAZARD 2. DENSITY = 0.10 GR/MSQUARE FEET 3. AREA OF APPLICATION = 1500 SQUARE FEET 4. COVER/AGE SPRINKLER = 225 SQUARE FEET/HEAD MAXIMUM 5. STORAGE SPACES SHALL BE CONSIDERED ORDINARY HAZARD GROUP 1 AND THE COVERAGE PER SPRINKLER SHALL BE 130 SQUARE FEET OR LESS

THE CONTRACTOR SHALL BE RESPONSIBLE TO PREPARE HYDRAULIC CALCULATIONS AND OBTAIN APPROVAL FROM ALL AUTHORITIES HAVING JURISDICTION OVER THE SPRINKLER WORK, INCLUDING THE BUILDING DEPARTMENT, THE OWNERS INSURANCE CO., CERTAIN AGENCY APPROVALS FOR HYDRAULICS PRIOR TO INSTALLATION OF NEW WORK. HYDRAULIC CALCULATIONS SHALL BE SIGNED AND SEALED BY A LICENSED PROFESSIONAL ENGINEER RETAINED BY THE SPRINKLER CONTRACTOR. SPRINKLER CONTRACTOR SHALL PREPARE ALL DOCUMENTS REQUIRED FOR ANY SUBSEQUENT FILING WITH AUTHORITIES HAVING JURISDICTION.

NOTES: 1. ALL EQUIPMENT SHALL BE PROVIDED WITH SEISMIC BRACING

CUTTING, PATCHING AND DEMOLITION:

- 1. KEEP DEMOLITION & CUTTING TO MINIMUM REQUIRED FOR

EXISTING BUILDING:

- 1. THE CONTRACTOR'S ATTENTION IS CALLED TO THE FACT THAT THE EXISTING BUILDING WILL BE OCCUPIED BY THE OWNER DURING CONSTRUCTION. CONTINUED OPERATION OF THE FACILITY SHALL NOT BE HINDERED BY THIS WORK. THE CONTRACTOR SHALL ACCOUNT FOR ALL ADDITIONAL COSTS WHICH MAY BE INCURRED BY HIM DUE TO THE DIFFICULTY OF WORKING OVER AND AROUND EMPLOYEES, DESKS, EQUIPMENT, ETC., AND DUE TO THE HOURS OF THE DAY IN WHICH AN AREA MAY BE AVAILABLE WHEN SUBMITTING HIS BID. 2. MAINTAIN A MARK-UP SET OF DRAWINGS WHICH INDICATE VARIATIONS IN THE ACTUAL INSTALLATION FROM THE ORIGINAL DESIGN. SUBMIT DRAWINGS TO OWNER UPON COMPLETION. INCORPORATE THESE NOTES INTO THE AS-BUILT DRAWINGS. 3. COORDINATE ALL PENETRATIONS OF THE FLOOR SLAB PRIOR TO COMMENCING WORK. UTILIZE X-RAY AND VISUAL INVESTIGATION OF EXISTING CONDITIONS AS REQUIRED PRIOR

FIRE PROTECTION DRAWING LIST - PHASE 2. Table with columns: Sheet Number, Sheet Name. Lists drawings like FP-000.PH2 (FIRE PROTECTION LEGEND & NOTES - PHASE 2), FP-101.PH2 (LEVEL 31 - FIRE PROTECTION DEMOLITION PHASE 2), etc.

Table with columns: NO, DESCRIPTION, DATE. Appears to be a schedule or list.

REVISIONS/ ISSUES

CONTRACTOR SHALL CHECK AND VERIFY ALL DIMENSIONS AND REPORT ANY OMISSIONS OR DISCREPANCIES TO THE ARCHITECT BEFORE PROCEEDING WITH THE WORK. DO NOT SCALE THE DRAWINGS.

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DATE 12/11/20
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DATE PLOTTED 12/11/2020 11:41:23 PM

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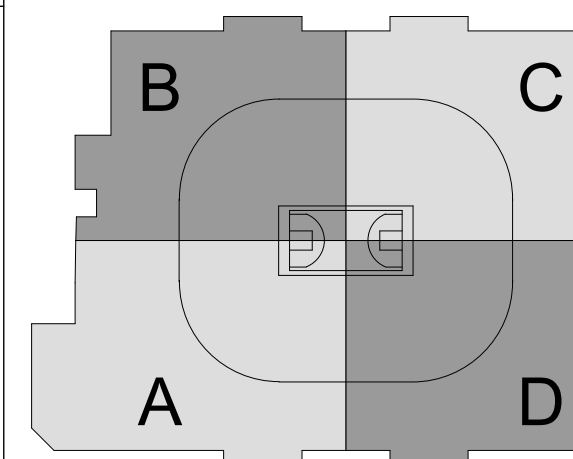
1 CIVIC CENTER PLAZA
HARTFORD, CT

DWG. TITLE
FIRE PROTECTION LEGEND & NOTES - PHASE 2

SCALE 1/8" = 1'-0"
PRJ. NO. 1605
DWG. NO. FP-000.PH2

GENERAL NOTES:

1. EXISTING SYSTEMS INFORMATION IS SHOWN FOR REFERENCE ONLY TO CLARIFY SCOPE. CONTRACTOR SHALL FIELD VERIFY THESE EXISTING CONDITIONS TO CONFIRM THE PRECISE ITEM LOCATION FOR NEW WORK.
2. DEMOLITION TO OCCUR ONLY WHEN SPACES ARE NOT OCCUPIED.
3. FOR SPRINKLER ADDITIONS IN AREAS WHERE EXISTING CEILING REMAINS, CONTRACTOR SHALL REFER TO ARCHITECTURAL DRAWINGS FOR REQUIRED CUTTING AND PATCHING WORK TO GAIN ACCESS TO PLENUM.
4. COORDINATION DRAWINGS SHALL BE PREPARED TO ENSURE ROUTING AVOIDS CONFLICTS WITH NEW AND EXISTING WORK. CONTRACTOR SHALL COORDINATE WITH ALL OTHER TRADES.
5. ALL WORK AFFECTING BUILDING SYSTEM OPERATION SHALL BE COORDINATED WITH BUILDING ENGINEERING.
6. CONTRACTOR SHALL BE ADVISED OF COSTLY MEDICAL EQUIPMENT IN AND AROUND THE AREAS OF WORK. ANY DEMOLITION AND CONSTRUCTION AROUND THE EQUIPMENT SHALL BE DONE WITHOUT DAMAGING THE EQUIPMENT. DAMAGE TO THIS EQUIPMENT DURING THE DURATION OF THE PROJECT WILL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR.



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HATCH LEGEND

- DEMOLISH ALL SPRINKLER HEADS, BRANCH PIPING, ETC. BACK TO MAINS WITHIN INDICATED HATCHED AREA.
- DEMOLISH ALL SPRINKLER HEADS, BRANCH PIPING, MAINS WITHIN THIS AREA AS REQUIRED TO DEMOLISH STAIR ABOVE.
- REPLACE EXISTING SPRINKLER CONCEALER CAPS.

NOT FOR CONSTRUCTION

KEYNOTES

NO.	DESCRIPTION	DATE

REVISIONS/ ISSUES

CONTRACTOR SHALL CHECK AND VERIFY ALL DIMENSIONS AND REPORT ANY OMISSIONS OR DISCREPANCIES TO THE ARCHITECT BEFORE PROCEEDING WITH THE WORK. DO NOT SCALE THE DRAWINGS.

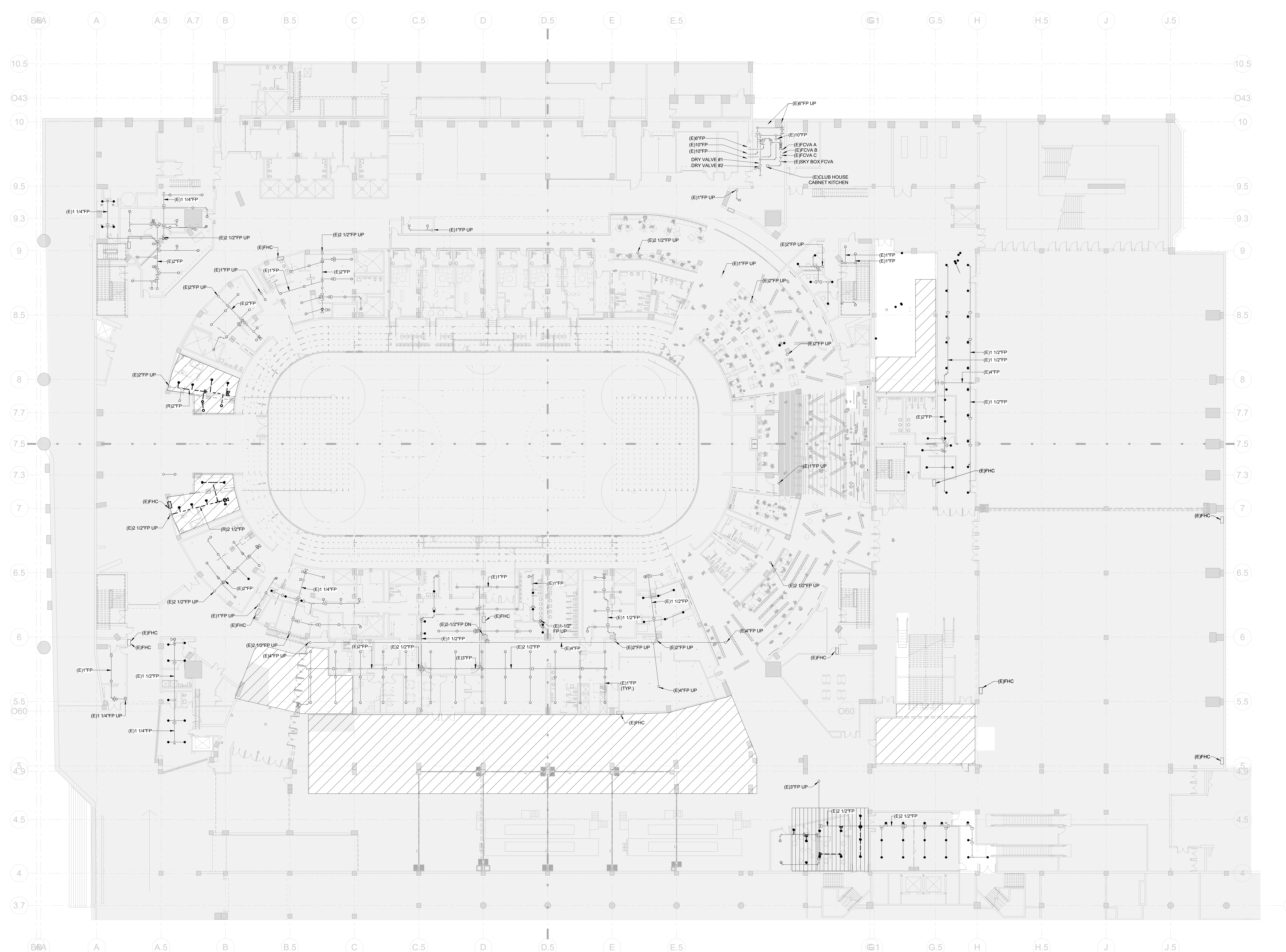
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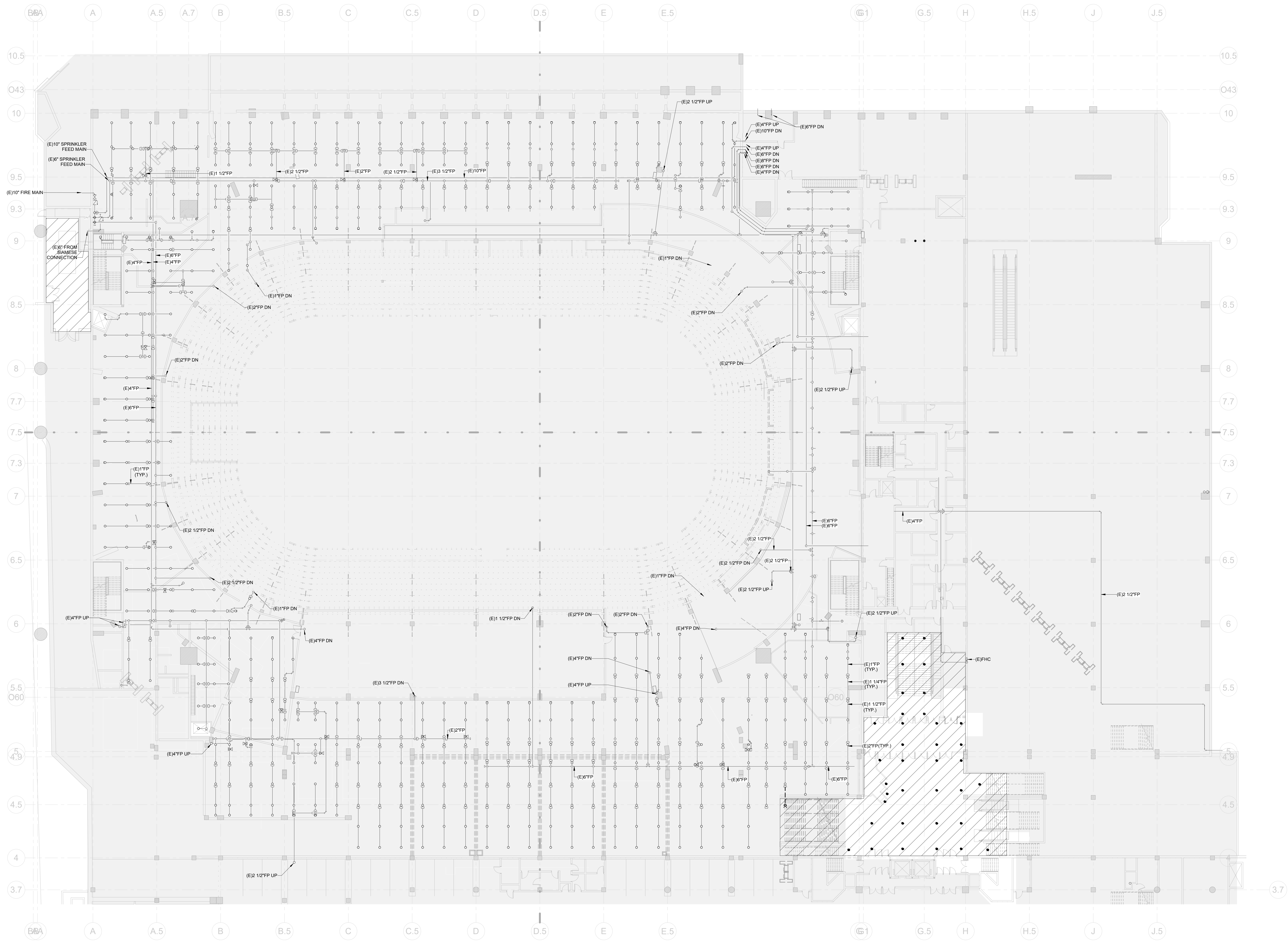
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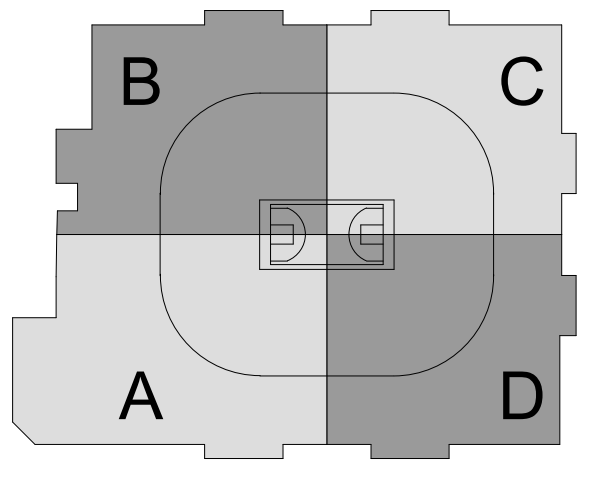
DWG. TITLE
LEVEL 31 - FIRE PROTECTION DEMOLITION PHASE 2

SCALE: 1/16" = 1'-0"
PROJ. NO: 1605
DWG. NO: **FP-101.PH2**





- GENERAL NOTES:**
- EXISTING SYSTEM INFORMATION IS SHOWN FOR REFERENCE ONLY TO CLARIFY SCOPE. CONTRACTOR SHALL FIELD VERIFY THESE EXISTING CONDITIONS TO CONFIRM THE PRECISE TIE-IN LOCATION FOR NEW WORK.
 - DEMOLITION TO OCCUR ONLY WHEN SPACES ARE NOT OCCUPIED.
 - FOR SPRINKLER ADDITIONS IN AREAS WHERE EXISTING CEILING REMAINS, CONTRACTOR SHALL REFER TO ARCHITECTURAL DRAWINGS FOR REQUIRED CUTTING AND PATCHING WORK TO GAIN ACCESS TO PLENUM.
 - COORDINATION DRAWINGS SHALL BE PREPARED TO ENSURE ROUTING AVOIDS CONFLICTS WITH NEW AND EXISTING WORK. CONTRACTOR SHALL COORDINATE WITH ALL OTHER TRADES.
 - ALL WORK AFFECTING BUILDING SYSTEM OPERATION SHALL BE COORDINATED WITH BUILDING ENGINEERING.
 - CONTRACTOR SHALL BE ADVISED OF COSTLY MEDICAL EQUIPMENT IN AND AROUND THE AREAS OF WORK. ANY DEMOLITION AND CONSTRUCTION AROUND THE EQUIPMENT SHALL BE DONE WITHOUT DAMAGING THE EQUIPMENT. DAMAGE TO THIS EQUIPMENT DURING THE DURATION OF THE PROJECT WILL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR.



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HATCH LEGEND

- DEMOLISH ALL SPRINKLER HEADS, BRANCH PIPING, ETC. BACK TO MAINS WITHIN INDICATED HATCHED AREA.
- DEMOLISH ALL SPRINKLER HEADS, BRANCH PIPING, MAINS WITHIN THIS AREA AS REQUIRED TO DEMOLISH STAIR ABOVE.
- REPLACE EXISTING SPRINKLER CONCEALER CAPS.

NOT FOR CONSTRUCTION

KEYNOTES

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REVISIONS/ ISSUES

CONTRACTOR SHALL CHECK AND VERIFY ALL DIMENSIONS AND REPORT ANY OMISSIONS OR DISCREPANCIES TO THE ARCHITECT BEFORE PROCEEDING WITH THE WORK. DO NOT SCALE THE DRAWINGS.

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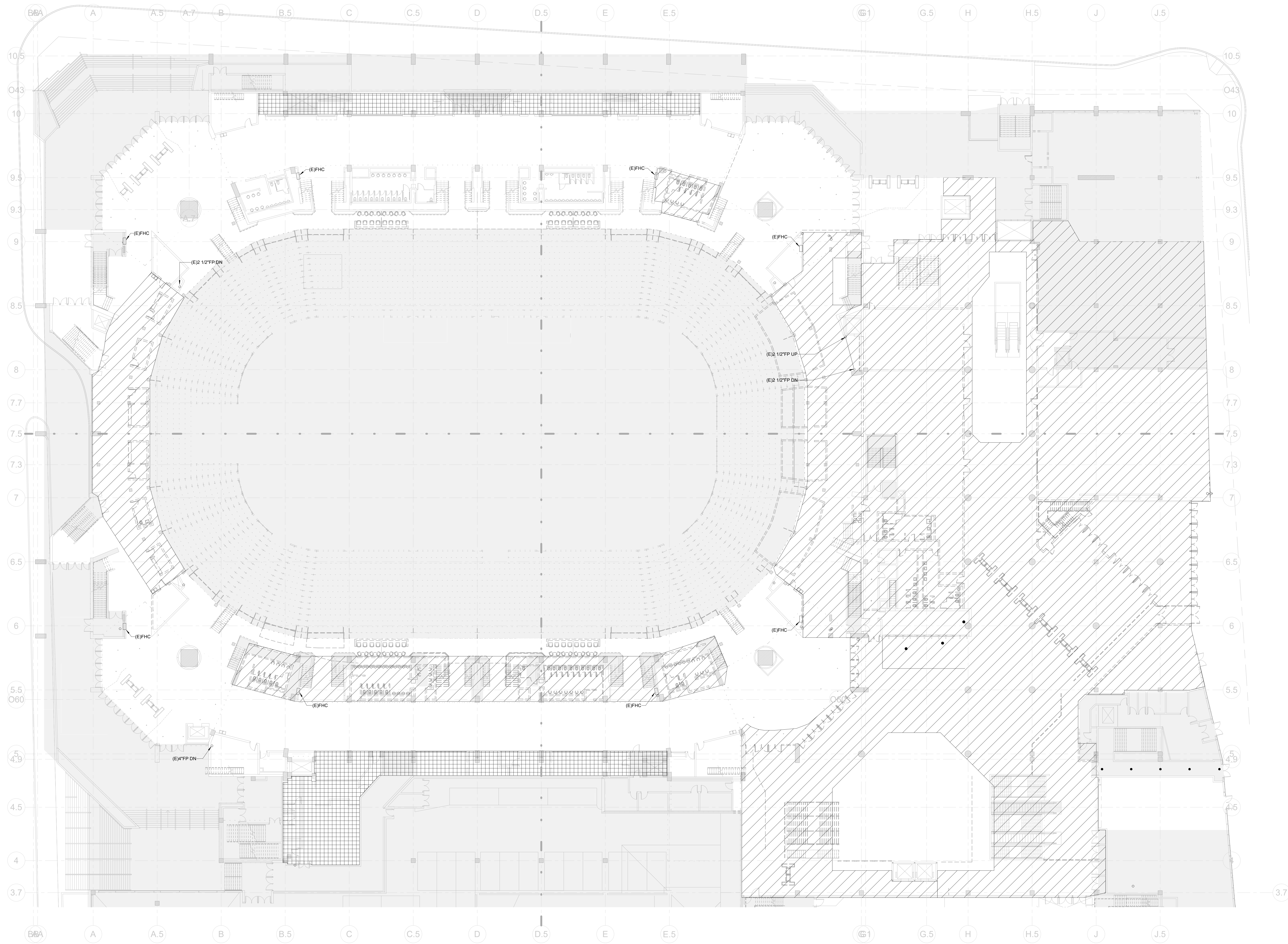
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HARTFORD, CT

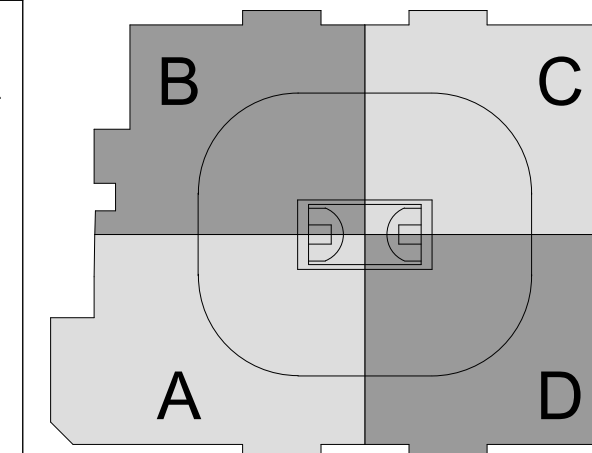
DWG. TITLE: LEVEL 48 - FIRE PROTECTION DEMOLITION PHASE 2

SCALE: 1/16" = 1'-0"
PROJ. NO: 1605
DWG. NO: FP-102.PH2



GENERAL NOTES:

- EXISTING SYSTEMS INFORMATION IS SHOWN FOR REFERENCE ONLY TO CLARIFY SCOPE. CONTRACTOR SHALL FIELD VERIFY THESE EXISTING CONDITIONS TO CONFIRM THE PRECISE TIE-IN LOCATION FOR NEW WORK.
- DEMOLITION TO OCCUR ONLY WHEN SPACES ARE NOT OCCUPIED.
- FOR SPRINKLER ADDITIONS IN AREAS WHERE EXISTING CEILING REMAINS, CONTRACTOR SHALL REFER TO ARCHITECTURAL DRAWINGS FOR REQUIRED CUTTING AND PATCHING WORK TO GAIN ACCESS TO PLENUM.
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- ALL WORK AFFECTING BUILDING SYSTEM OPERATION SHALL BE COORDINATED WITH BUILDING ENGINEERING.
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CAPITAL REGION DEVELOPMENT AUTHORITY

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HATCH LEGEND

- DEMOLISH ALL SPRINKLER HEADS, BRANCH PIPING, ETC. BACK TO MAINS WITHIN INDICATED HATCHED AREA.
- DEMOLISH ALL SPRINKLER HEADS, BRANCH PIPING, MAINS WITHIN THIS AREA AS REQUIRED TO DEMOLISH STAIR ABOVE.
- REPLACE EXISTING SPRINKLER CONCEALER CAPS

NOT FOR CONSTRUCTION

KEYNOTES

NO.	DESCRIPTION	DATE
1	ISSUED FOR TIA 90	12/1/20

REVISIONS/ ISSUES

CONTRACTOR SHALL CHECK AND VERIFY ALL DIMENSIONS AND REPORT ANY OMISSIONS OR DISCREPANCIES TO THE ARCHITECT BEFORE PROCEEDING WITH THE WORK. DO NOT SCALE THE DRAWINGS.

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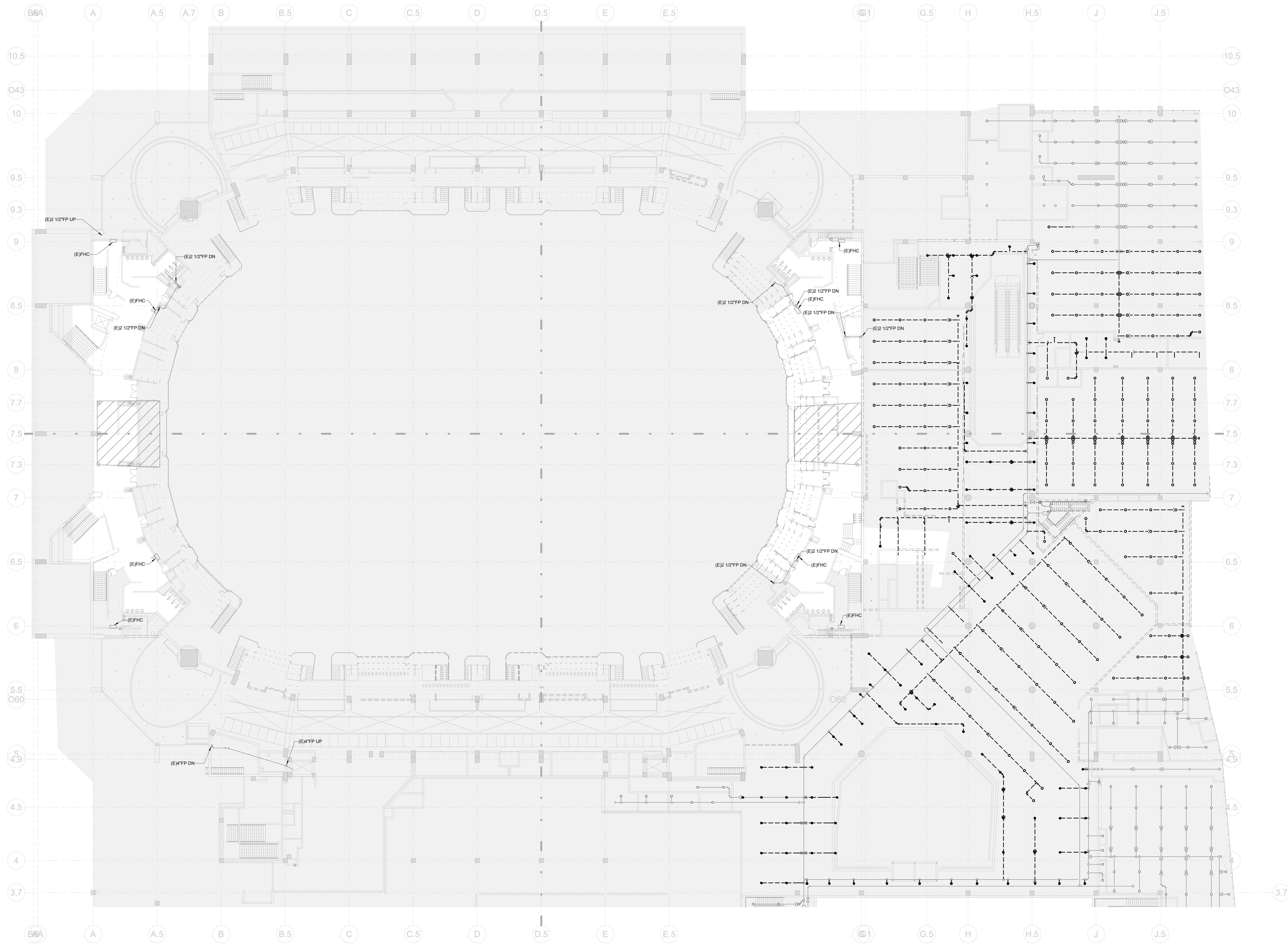
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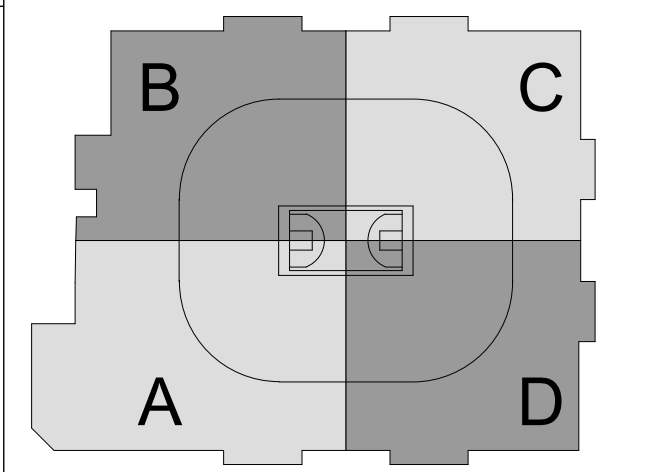
1 CIVIC CENTER PLAZA
HARTFORD, CT

DWG. TITLE
LEVEL 61 - FIRE PROTECTION
DEMOLITION PHASE 2

SCALE: 1/16" = 1'-0"
PROJ. NO: 1605
DWG. NO: FP-103.PH2



- GENERAL NOTES:**
- EXISTING SYSTEMS INFORMATION IS SHOWN FOR REFERENCE ONLY TO CLARIFY SCOPE. CONTRACTOR SHALL FIELD VERIFY THESE EXISTING CONDITIONS TO CONFIRM THE PRECISE TIE-IN LOCATION FOR NEW WORK.
 - DEMOLITION TO OCCUR ONLY WHEN SPACES ARE NOT OCCUPIED.
 - FOR SPRINKLER ADDITIONS IN AREAS WHERE EXISTING CEILING REMAINS, CONTRACTOR SHALL REFER TO ARCHITECTURAL DRAWINGS FOR REQUIRED CUTTING AND PATCHING WORK TO GAIN ACCESS TO PLENUM.
 - COORDINATION DRAWINGS SHALL BE PREPARED TO ENSURE ROUTING AVOIDS CONFLICTS WITH NEW AND EXISTING WORK. CONTRACTOR SHALL COORDINATE WITH ALL OTHER TRADES.
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 - CONTRACTOR SHALL BE ADVISED OF COSTLY MEDICAL EQUIPMENT IN AND AROUND THE AREAS OF WORK. ANY DEMOLITION AND CONSTRUCTION AROUND THE EQUIPMENT SHALL BE DONE WITHOUT DAMAGING THE EQUIPMENT. DAMAGE TO THIS EQUIPMENT DURING THE DURATION OF THE PROJECT WILL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR.



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- HATCH LEGEND**
- DEMOLISH ALL SPRINKLER HEADS, BRANCH PIPING, ETC. BACK TO MAINS WITHIN INDICATED HATCHED AREA.
 - DEMOLISH ALL SPRINKLER HEADS, BRANCH PIPING, MAINS WITHIN THIS AREA AS REQUIRED TO DEMOLISH STAIR ABOVE.
 - REPLACE EXISTING SPRINKLER CONCEALER CAPS.

NOT FOR CONSTRUCTION

KEYNOTES

NO.	DESCRIPTION	DATE
1	ISSUED FOR T&E	12/1/20

REVISIONS/ ISSUES

CONTRACTOR SHALL CHECK AND VERIFY ALL DIMENSIONS AND REPORT ANY OMISSIONS OR DISCREPANCIES TO THE ARCHITECT BEFORE PROCEEDING WITH THE WORK. DO NOT SCALE THE DRAWINGS.

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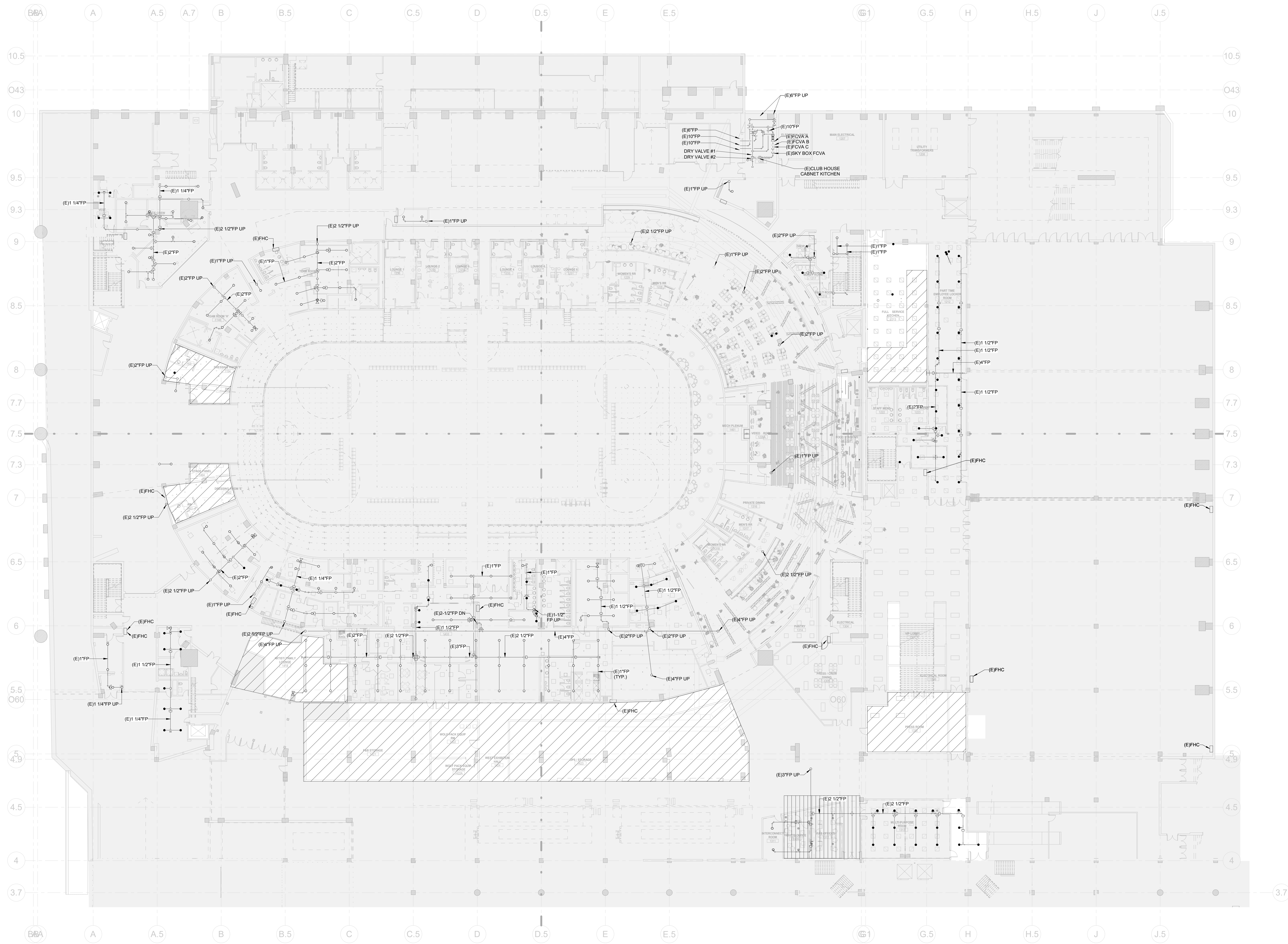
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1 CIVIC CENTER PLAZA
HARTFORD, CT

DWG. TITLE
LEVEL 71 - FIRE PROTECTION DEMOLITION PHASE 2

SCALE
1/16" = 1'-0"

DWG. NO.
1605

PROJ. NO.
FP-104.PH2



GENERAL NOTES:

- EXISTING SYSTEMS INFORMATION IS SHOWN FOR REFERENCE ONLY TO CLARIFY SCOPE. CONTRACTOR SHALL FIELD VERIFY THESE EXISTING CONDITIONS TO CONFIRM THE PRECISE TIE-IN LOCATION FOR NEW WORK. REFER TO DEMOLITION PLANS FOR ADDITIONAL INFORMATION REGARDING EXISTING SYSTEMS. EXISTING SYSTEMS NOTES ARE NOT SHOWN ON CONSTRUCTION PLANS FOR CLARITY OF THE DRAWINGS.
- CONTRACTOR IS RESPONSIBLE FOR ALL CEILING REMOVALS AND REINSTALLATIONS REQUIRED TO COMPLETE WORK. PROVIDE CEILING TILES AS REQUIRED. CEILING TILES SHALL MATCH EXISTING.
- ANY WORK OUTSIDE OF SCOPE WORK SHALL BE COMPLETED DURING PREMIUM TIME. SEE PREMIUM TIME NOTE ON SAME PAGE.
- CONTRACTOR SHALL PROVIDE CORE DRILLING AS REQUIRED FOR NEW PIPE PENETRATIONS.
- COORDINATION DRAWINGS SHALL BE PREPARED TO ENSURE ROUTING AVOIDS CONFLICTS WITH NEW AND EXISTING WORK. CONTRACTOR SHALL COORDINATE WITH ALL OTHER TRADES.
- CONTRACTOR SHALL PERFORM HYDRAULIC CALCULATIONS AND SUBMIT WITH SHOP DRAWINGS. REFER TO SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.
- ALL WORK AFFECTING BUILDING SYSTEM OPERATION SHALL BE COORDINATED WITH BUILDING ENGINEERS.
- MINIMUM PIPE SIZE FOR ALL SPRINKLER BRANCH TO SPRINKLER HEADS SHALL BE 1".
- SPRINKLER HEADS SHALL BE LOCATED CENTERED ON CEILING WITH RESPECT TO NEW CEILING GRID, AND CENTERED WITH RESPECT TO HEARMY DEVICES IN GWB.
- NEW AND EXISTING TO REMAIN PIPING SHALL BE RELOCATED TO ALLOW FOR INSTALLATION OF OTHER TRADES.
- FIRE HOSE VALVE LOCATION IS APPROXIMATE. VALVE SHOULD BE EASILY ACCESSIBLE AND NOT IMPEDE EGRESS PATH.
- COORDINATE COLOR OF CONCEALED HEADS WITH ARCHITECT.
- THE CONTRACTOR IS RESPONSIBLE TO PREPARE AS-BUILT DRAWING AND OBTAIN APPROVAL FROM ALL AUTHORITIES HAVING JURISDICTION AND OBTAIN AGENCY APPROVALS FOR DRAWING AND HYDRAULICS PRIOR TO INSTALLATION OF NEW WORK. DRAWING AND HYDRAULIC CALCULATIONS SHALL BE SIGNED AND SEALED BY A LICENSED PROFESSIONAL ENGINEER RETAINED BY THE SPRINKLER CONTRACTOR. SPRINKLER CONTRACTOR SHALL PREPARE ALL DOCUMENTS REQUIRED FOR ANY SUBSEQUENT FILING WITH AUTHORITIES HAVING JURISDICTION.
- PIPING SHALL BE SIZED ACCORDING TO HOW MANY HEADS ARE FED DOWNSTREAM OF BRANCH. REFER TO CHART BELOW:

BRANCH SIZING CRITERIA
(1.0 GPM/S.F.)

DIAMETER OF BRANCH	MAX. NUMBER OF HEADS
1"	2
1-1/4"	3
1-1/2"	5
2"	10
2-1/2"	30
3"	60
4"	100

BRANCH SIZING CRITERIA
(15 GPM/S.F.)

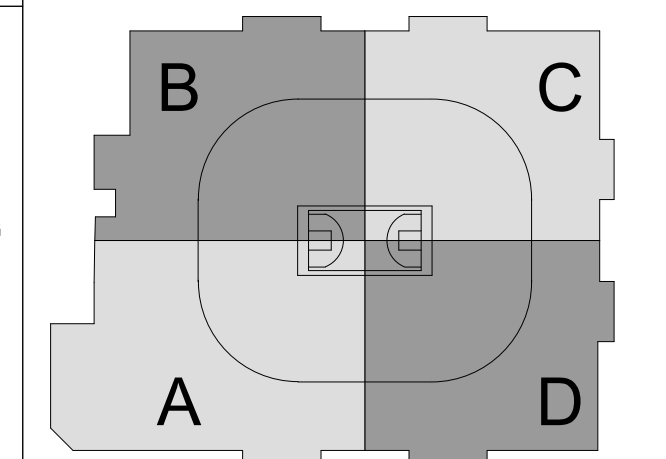
DIAMETER OF BRANCH	MAX. NUMBER OF HEADS
1"	2
1-1/4"	3
1-1/2"	5
2"	10
2-1/2"	20
3"	40
4"	100

HATCH LEGEND

- PROVIDE SPRINKLER COVERAGE IN INDICATED HATCH AREA. PIPE HEADS BACK TO MAINS AS PER PIPE SIZING TABLES ABOVE.
- REPLACE EXISTING SPRINKLER CONCEALER CAPS

KEYNOTES

CONTRACTOR SHALL CHECK AND VERIFY ALL DIMENSIONS AND REPORT ANY OMISSIONS OR DISCREPANCIES TO THE ARCHITECT BEFORE PROCEEDING WITH THE WORK. DO NOT SCALE THE DRAWINGS.



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NOT FOR CONSTRUCTION

NO.	DESCRIPTION	DATE
1	ISSUED FOR TIA 90	10/1/20

REVISIONS/ ISSUES

CONTRACTOR SHALL CHECK AND VERIFY ALL DIMENSIONS AND REPORT ANY OMISSIONS OR DISCREPANCIES TO THE ARCHITECT BEFORE PROCEEDING WITH THE WORK. DO NOT SCALE THE DRAWINGS.

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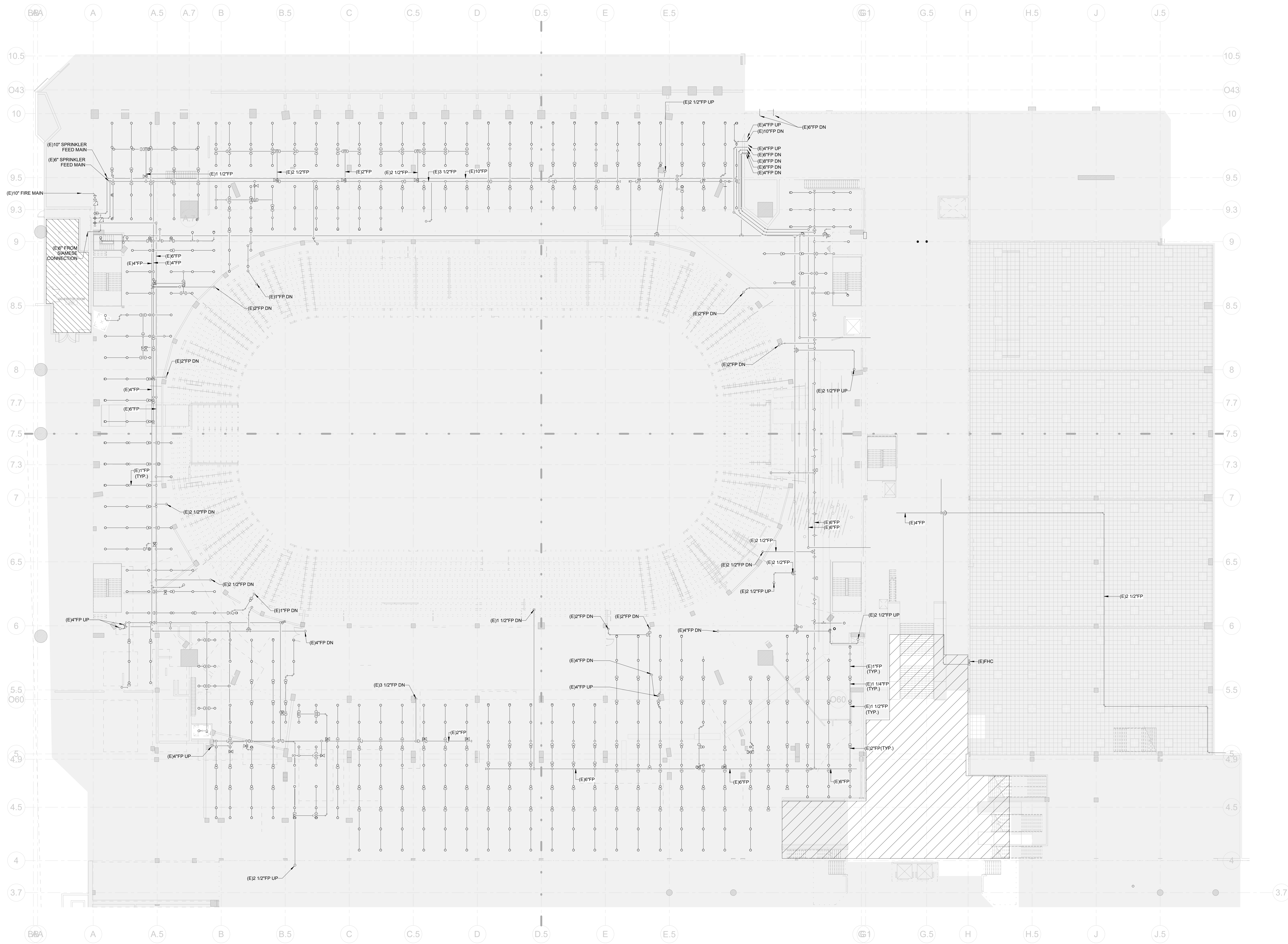
1 CIVIC CENTER PLAZA
HARTFORD, CT

DWG. TITLE
LEVEL 31 - FIRE PROTECTION CONSTRUCTION PHASE 2

SCALE
1/16" = 1'-0"

DWG. NO.
1605

PROJ. NO.
FP-201.PH2



GENERAL NOTES:

- EXISTING SYSTEMS INFORMATION IS SHOWN FOR REFERENCE ONLY TO CLARIFY SCOPE. CONTRACTOR SHALL FIELD VERIFY THESE EXISTING CONDITIONS TO CONFIRM THE PRECISE TIE-IN LOCATION FOR NEW WORK. REFER TO DEMOLITION PLANS FOR ADDITIONAL INFORMATION REGARDING EXISTING SYSTEMS. EXISTING SYSTEMS NOTES ARE NOT SHOWN ON CONSTRUCTION PLANS FOR CLARITY OF THE DRAWINGS.
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- ANY WORK OUTSIDE OF SCOPE WORK SHALL BE COMPLETED DURING PREMIUM TIME. SEE PREMIUM TIME NOTE ON SAME PAGE.
- CONTRACTOR SHALL PROVIDE CORE DRILLING AS REQUIRED FOR NEW PIPE PENETRATIONS.
- COORDINATION DRAWINGS SHALL BE PREPARED TO ENSURE ROUTING AVOIDS CONFLICTS WITH NEW AND EXISTING WORK. CONTRACTOR SHALL COORDINATE WITH ALL OTHER TRADES.
- CONTRACTOR SHALL PERFORM HYDRAULIC CALCULATIONS AND SUBMIT WITH SHOP DRAWINGS. REFER TO SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.
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- MINIMUM PIPE SIZE FOR ALL SPRINKLER BRANCH TO SPRINKLER HEADS SHALL BE 1".
- SPRINKLER HEADS SHALL BE LOCATED CENTERED ON CEILING WITH RESPECT TO NEW CEILING GRID, AND CENTERED WITH RESPECT TO NEARBY DEVICES IN GWB.
- NEW AND EXISTING TO REMAIN PIPING SHALL BE RELOCATED TO ALLOW FOR INSTALLATION OF OTHER TRADES.
- FIRE HOSE VALVE LOCATION IS APPROXIMATE. VALVE SHOULD BE EASILY ACCESSIBLE AND NOT IMPEDE EGRESS PATH.
- COORDINATE COLOR OF CONCEALED HEADS WITH ARCHITECT.
- THE CONTRACTOR IS RESPONSIBLE TO PREPARE AS-BUILT DRAWING AND OBTAIN APPROVAL FROM ALL AUTHORITIES HAVING JURISDICTION AND OBTAIN AGENCY APPROVALS FOR DRAWING AND HYDRAULICS PRIOR TO INSTALLATION OF NEW WORK. DRAWING AND HYDRAULIC CALCULATIONS SHALL BE SIGNED AND SEALED BY A LICENSED PROFESSIONAL ENGINEER RETAINED BY THE SPRINKLER CONTRACTOR. SPRINKLER CONTRACTOR SHALL PREPARE ALL DOCUMENTS REQUIRED FOR ANY SUBSEQUENT FILING WITH AUTHORITIES HAVING JURISDICTION.
- PIPING SHALL BE SIZED ACCORDING TO HOW MANY HEADS ARE FED DOWNSTREAM OF BRANCH. REFER TO CHART BELOW:

BRANCH SIZING CRITERIA (1.0 GPM/S.F.)

DIAMETER OF BRANCH	MAX. NUMBER OF HEADS
1"	2
1-1/4"	3
1-1/2"	5
2"	10
2-1/2"	30
3"	60
4"	100

BRANCH SIZING CRITERIA (15 GPM/S.F.)

DIAMETER OF BRANCH	MAX. NUMBER OF HEADS
1"	2
1-1/4"	3
1-1/2"	5
2"	10
2-1/2"	20
3"	40
4"	100

HATCH LEGEND

- PROVIDE SPRINKLER COVERAGE IN INDICATED HATCH AREA. PIPE HEADS BACK TO MAINS AS PER PIPE SIZING TABLES ABOVE.
- REPLACE EXISTING SPRINKLER CONCEALER CAPS

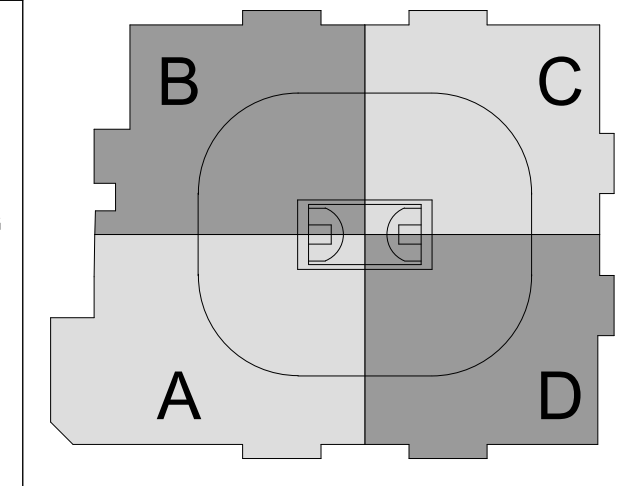
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1	ISSUED FOR TIA 90	10/1/99
2		

KEYNOTES

REVISIONS/ ISSUES

CONTRACTOR SHALL CHECK AND VERIFY ALL DIMENSIONS AND REPORT ANY OMISSIONS OR DISCREPANCIES TO THE ARCHITECT BEFORE PROCEEDING WITH THE WORK. DO NOT SCALE THE DRAWINGS.

SEAL



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(646) 658-7410

me
engineers
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(212) 447-6770

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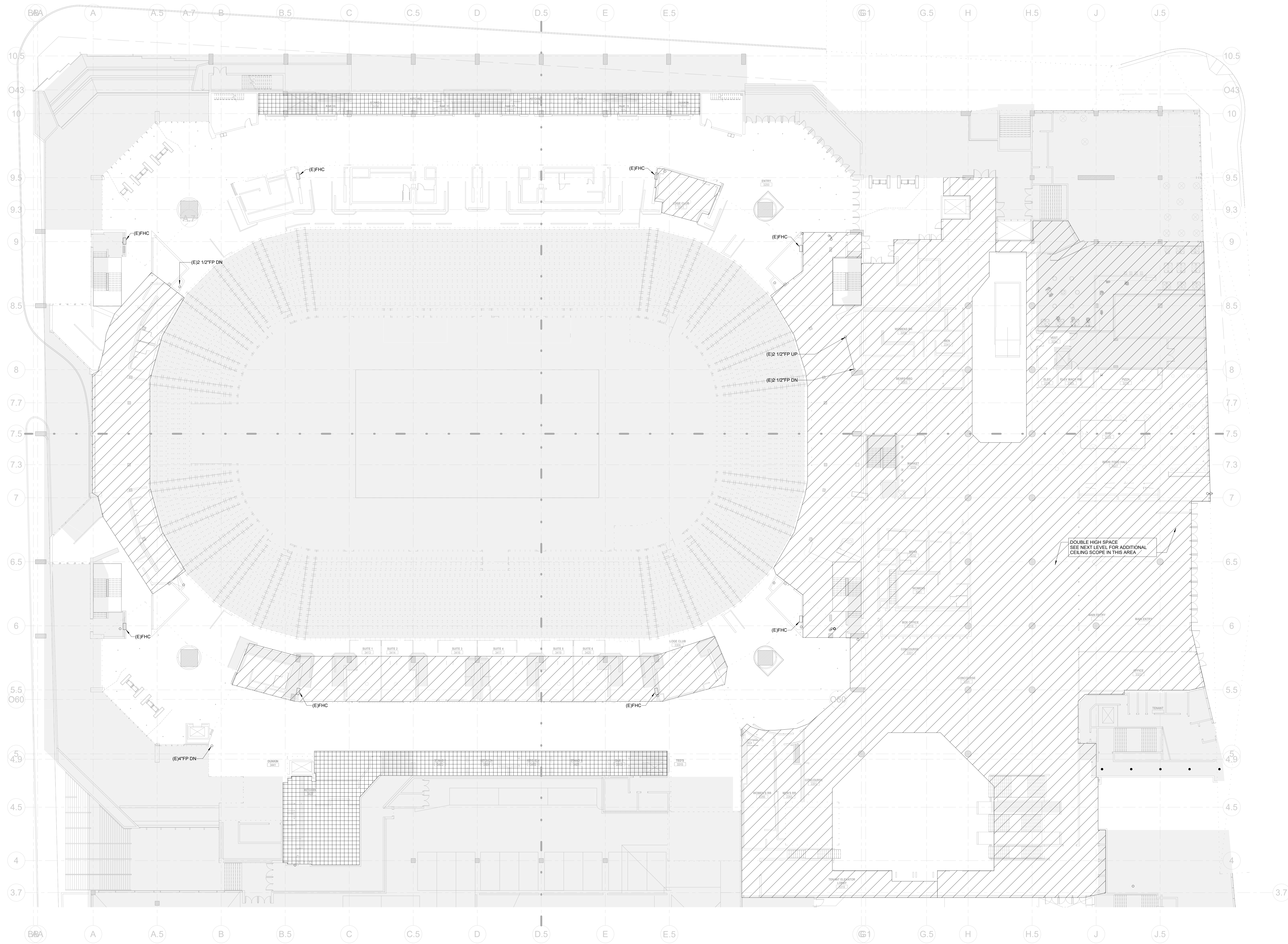
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XL CENTER

1 CIVIC CENTER PLAZA
HARTFORD, CT

DWG. TITLE
LEVEL 48 - FIRE PROTECTION
CONSTRUCTION PHASE 2

SCALE: 1/16" = 1'-0"
PROJ. NO: 1605
DWG. NO: FP-202.PH2



GENERAL NOTES:

- EXISTING SYSTEMS INFORMATION IS SHOWN FOR REFERENCE ONLY TO CLARIFY SCOPE. CONTRACTOR SHALL FIELD VERIFY THESE EXISTING CONDITIONS TO CONFIRM THE PRECISE TIE-IN LOCATION FOR NEW WORK. REFER TO DEMOLITION PLANS FOR ADDITIONAL INFORMATION REGARDING EXISTING SYSTEMS. EXISTING SYSTEMS NOTES ARE NOT SHOWN ON CONSTRUCTION PLANS FOR CLARITY OF THE DRAWINGS.
- CONTRACTOR IS RESPONSIBLE FOR ALL CEILING REMOVALS AND REINSTALLATIONS REQUIRED TO COMPLETE WORK. PROVIDE CEILING TILES AS REQUIRED. CEILING TILES SHALL MATCH EXISTING.
- ANY WORK OUTSIDE OF SCOPE WORK SHALL BE COMPLETED DURING PREMIUM TIME. SEE PREMIUM TIME NOTE ON SAME PAGE.
- CONTRACTOR SHALL PROVIDE CORE DRILLING AS REQUIRED FOR NEW PIPE PENETRATIONS.
- COORDINATION DRAWINGS SHALL BE PREPARED TO ENSURE ROUTING AVOIDS CONFLICTS WITH NEW AND EXISTING WORK. CONTRACTOR SHALL COORDINATE WITH ALL OTHER TRADES.
- CONTRACTOR SHALL PERFORM HYDRAULIC CALCULATIONS AND SUBMIT WITH SHOP DRAWINGS. REFER TO SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.
- ALL WORK AFFECTING BUILDING SYSTEM OPERATION SHALL BE COORDINATED WITH BUILDING ENGINEERING.
- MINIMUM PIPE SIZE FOR ALL SPRINKLER BRANCH TO SPRINKLER HEADS SHALL BE 1".
- SPRINKLER HEADS SHALL BE LOCATED CENTERED ON CEILING WITH RESPECT TO NEW CEILING GRID, AND CENTERED WITH RESPECT TO HEAVY BEAMS IN GWB.
- NEW AND EXISTING TO REMAIN PIPING SHALL BE RELOCATED TO ALLOW FOR INSTALLATION OF OTHER TRADES.
- FIRE HOSE VALVE LOCATION IS APPROXIMATE. VALVE SHOULD BE EASILY ACCESSIBLE AND NOT IMPEDE EGRESS PATH.
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BRANCH SIZING CRITERIA
(1.0 GPM/S.F.)

DIAMETER OF BRANCH	MAX. NUMBER OF HEADS
1"	2
1-1/4"	3
1-1/2"	5
2"	10
2-1/2"	30
3"	60
4"	100

BRANCH SIZING CRITERIA
(1.5 GPM/S.F.)

DIAMETER OF BRANCH	MAX. NUMBER OF HEADS
1"	2
1-1/4"	3
1-1/2"	5
2"	10
2-1/2"	20
3"	40
4"	100

HATCH LEGEND

	PROVIDE SPRINKLER COVERAGE IN INDICATED HATCH AREA. PIPE HEADS BACK TO MAINS AS PER PIPE SIZING TABLES ABOVE.
	REPLACE EXISTING SPRINKLER CONCEALER CAPS

KEYNOTES

CONTRACTOR SHALL CHECK AND VERIFY ALL DIMENSIONS AND REPORT ANY OMISSIONS OR DISCREPANCIES TO THE ARCHITECT BEFORE PROCEEDING WITH THE WORK. DO NOT SCALE THE DRAWINGS.

REVISIONS/ ISSUES

NO.	DESCRIPTION	DATE
1	ISSUED FOR T&E	10/1/20

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DATE	12/11/20
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DATE PLOTTED	12/11/2020 11:42:38 PM

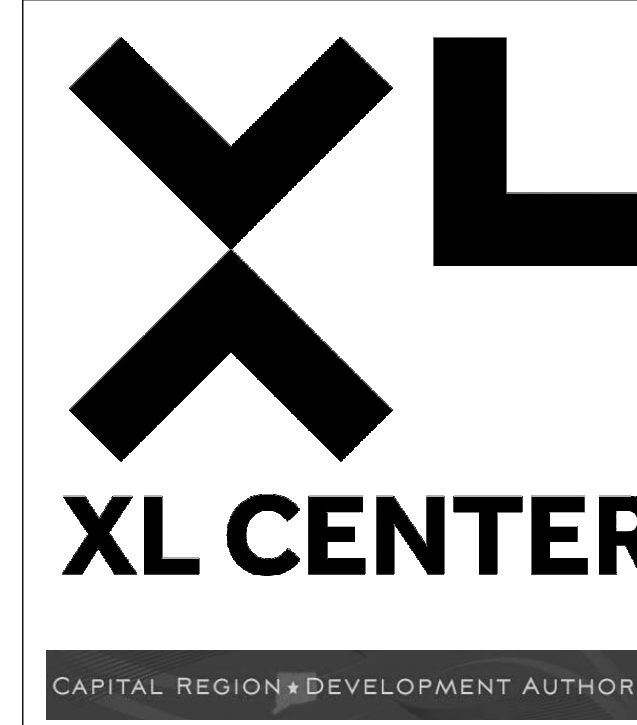
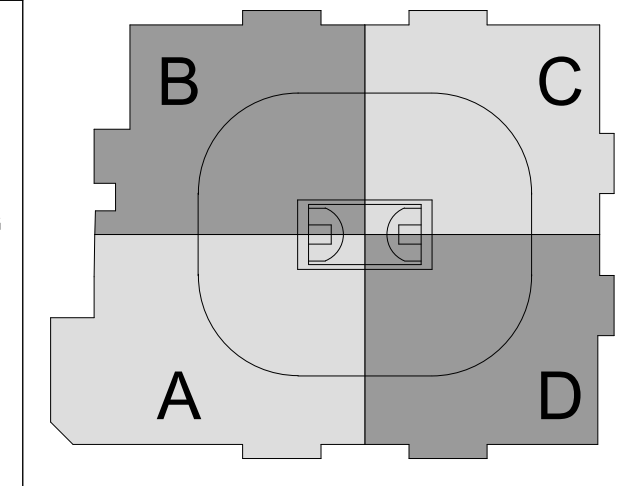
XL CENTER
1 CIVIC CENTER PLAZA
HARTFORD, CT

DWG. TITLE
LEVEL 61 - FIRE PROTECTION CONSTRUCTION PHASE 2

SCALE
1/16" = 1'-0"

PROJ. NO.
1605

DWG. NO.
FP-203.PH2

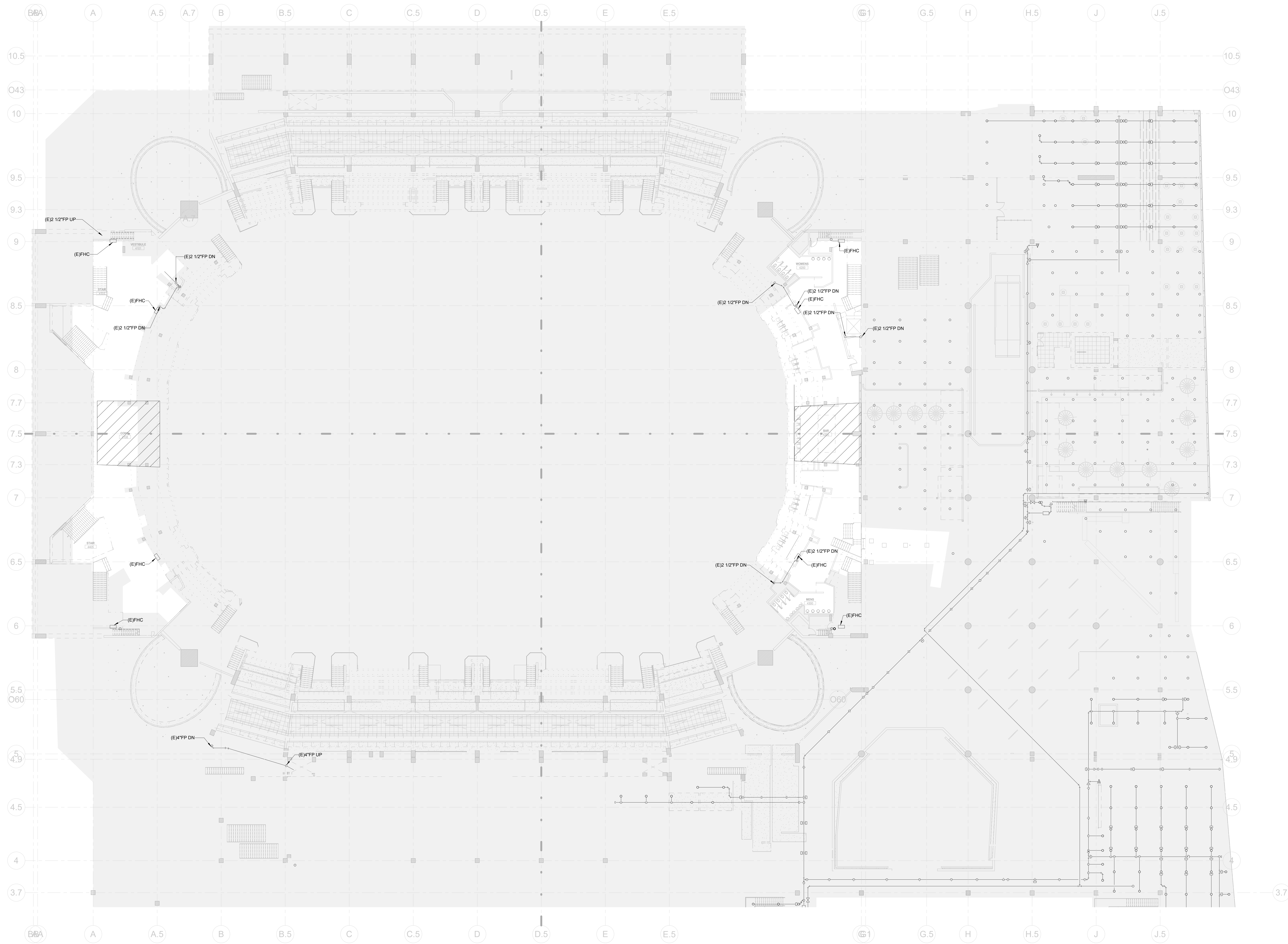


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(212) 447-6770

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2"	10
2-1/2"	30
3"	60
4"	>100

BRANCH SIZING CRITERIA (15 GPM/S.F.)

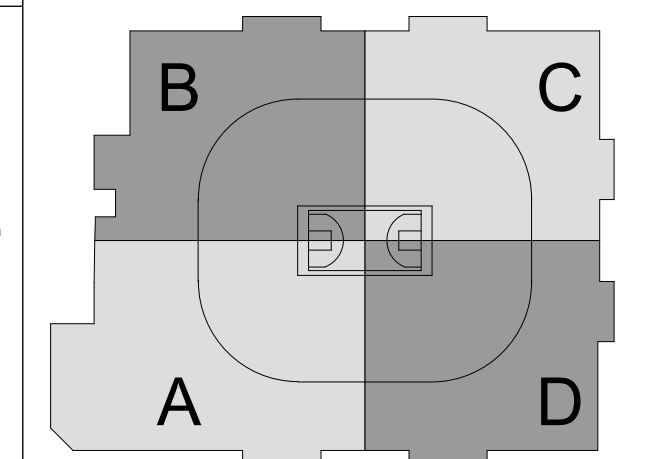
DIAMETER OF BRANCH	MAX. NUMBER OF HEADS
1"	2
1-1/4"	3
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2"	10
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3"	40
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HATCH LEGEND

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- REPLACE EXISTING SPRINKLER CONCEALER CAPS

KEYNOTES

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1	ISSUED FOR T&E	12/1/20

REVISIONS/ ISSUES

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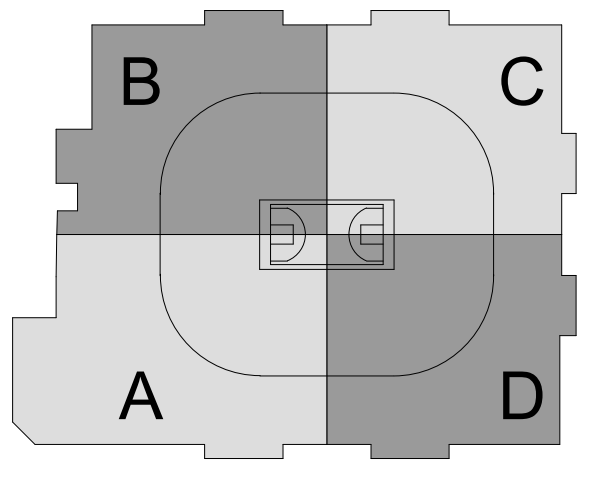
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HARTFORD, CT

DWG. TITLE
LEVEL 71 - FIRE PROTECTION CONSTRUCTION PHASE 2

SCALE: 1/16" = 1'-0"
PROJ. NO: 1605
DWG. NO: FP-204.PH2



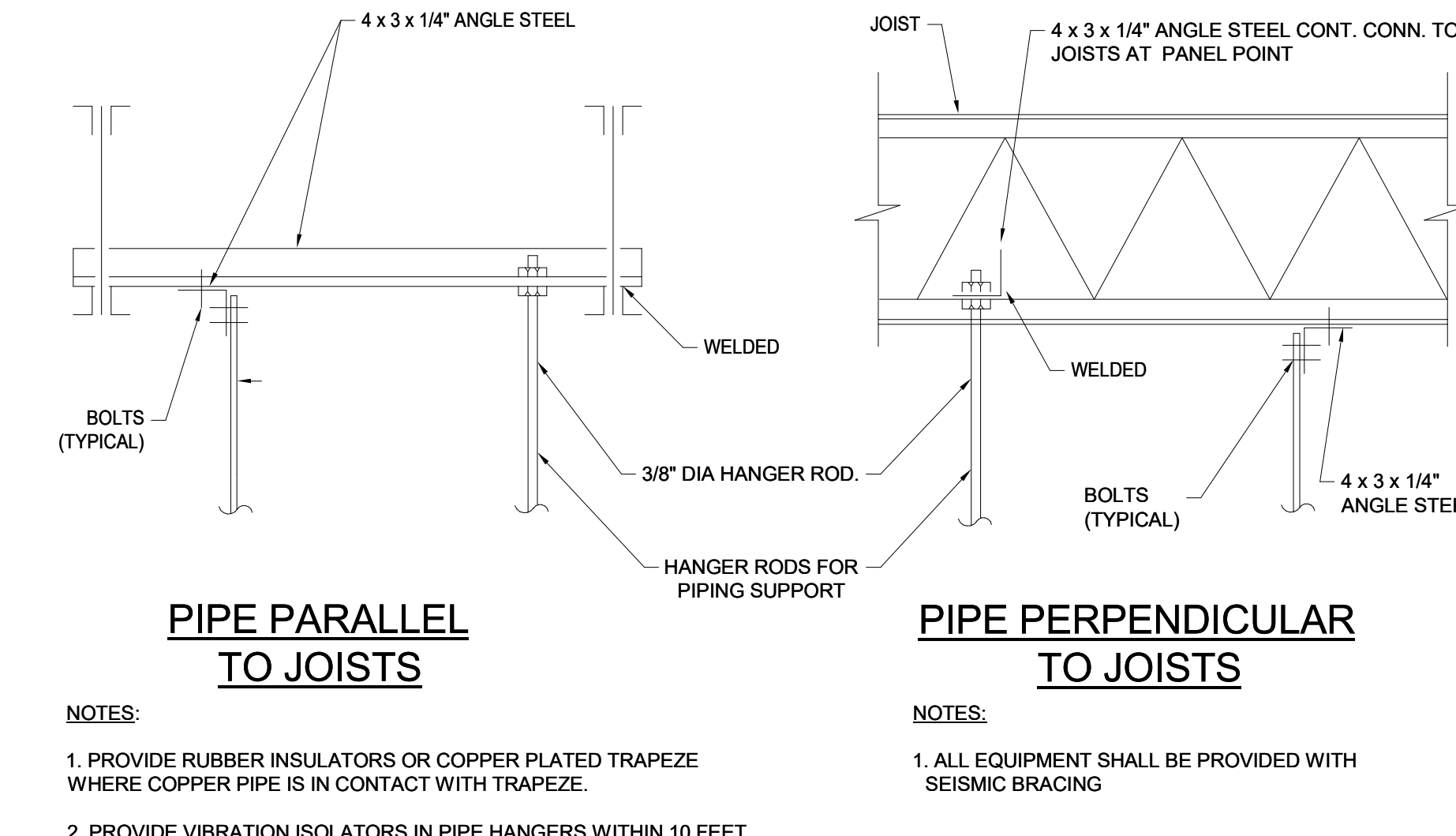
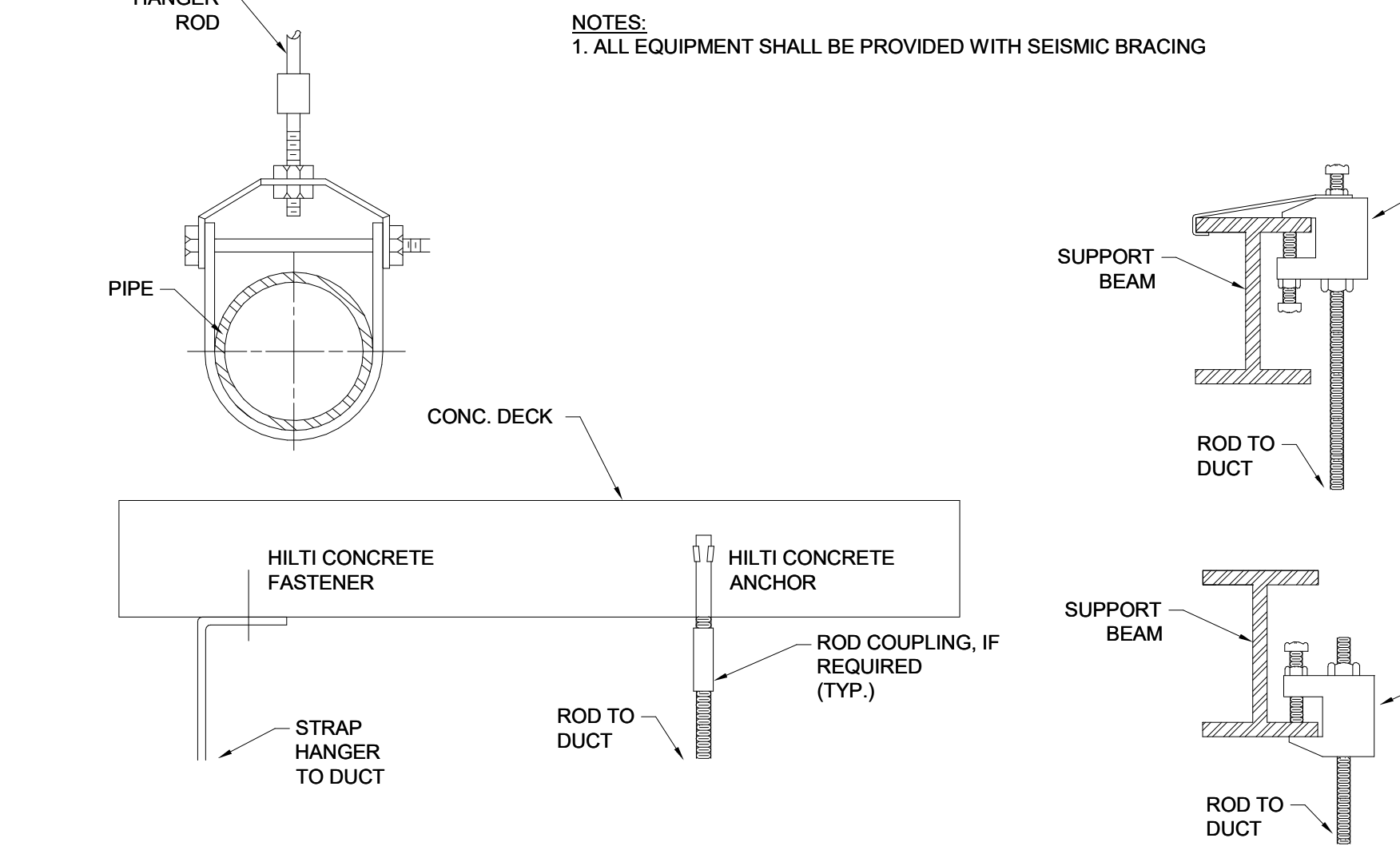
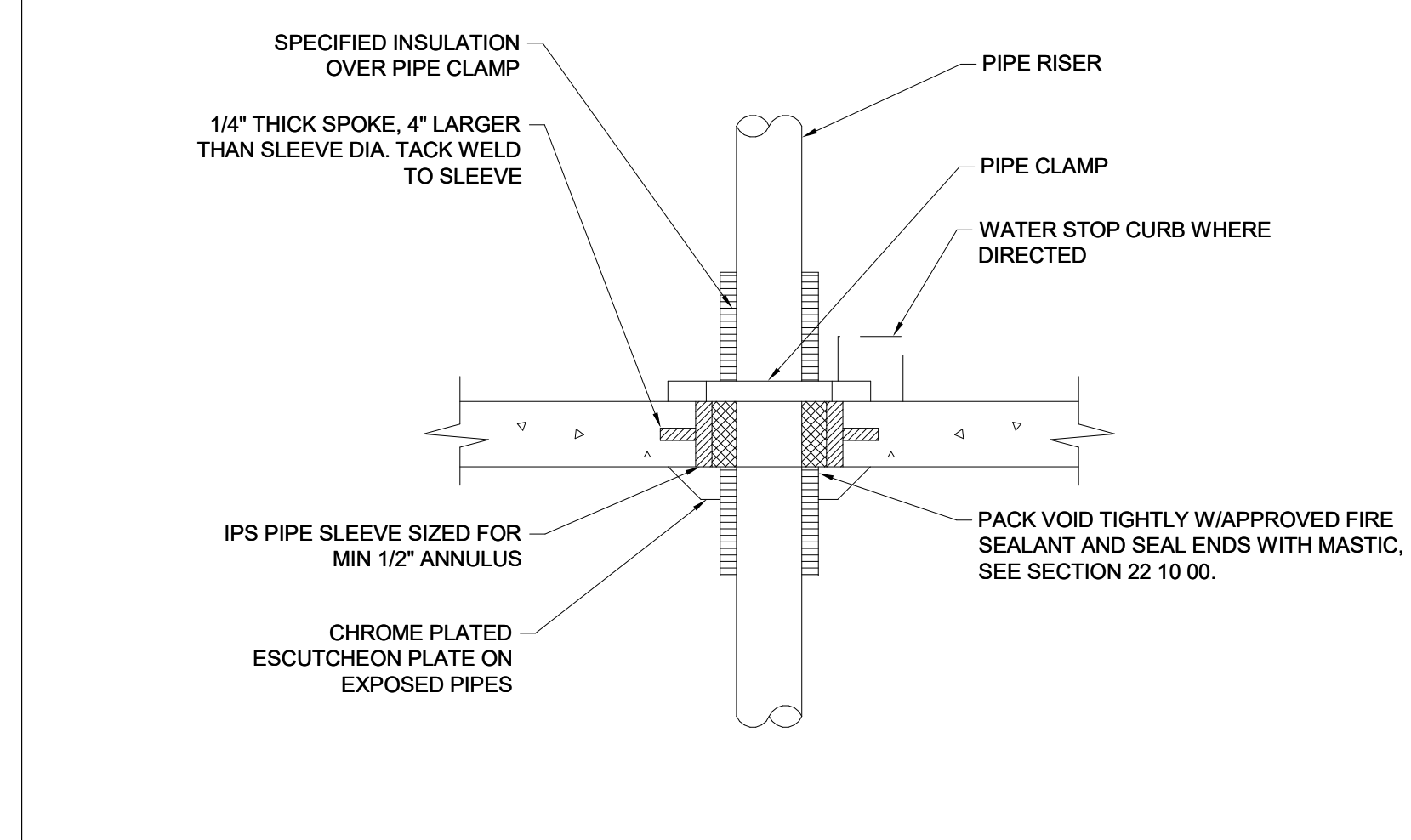
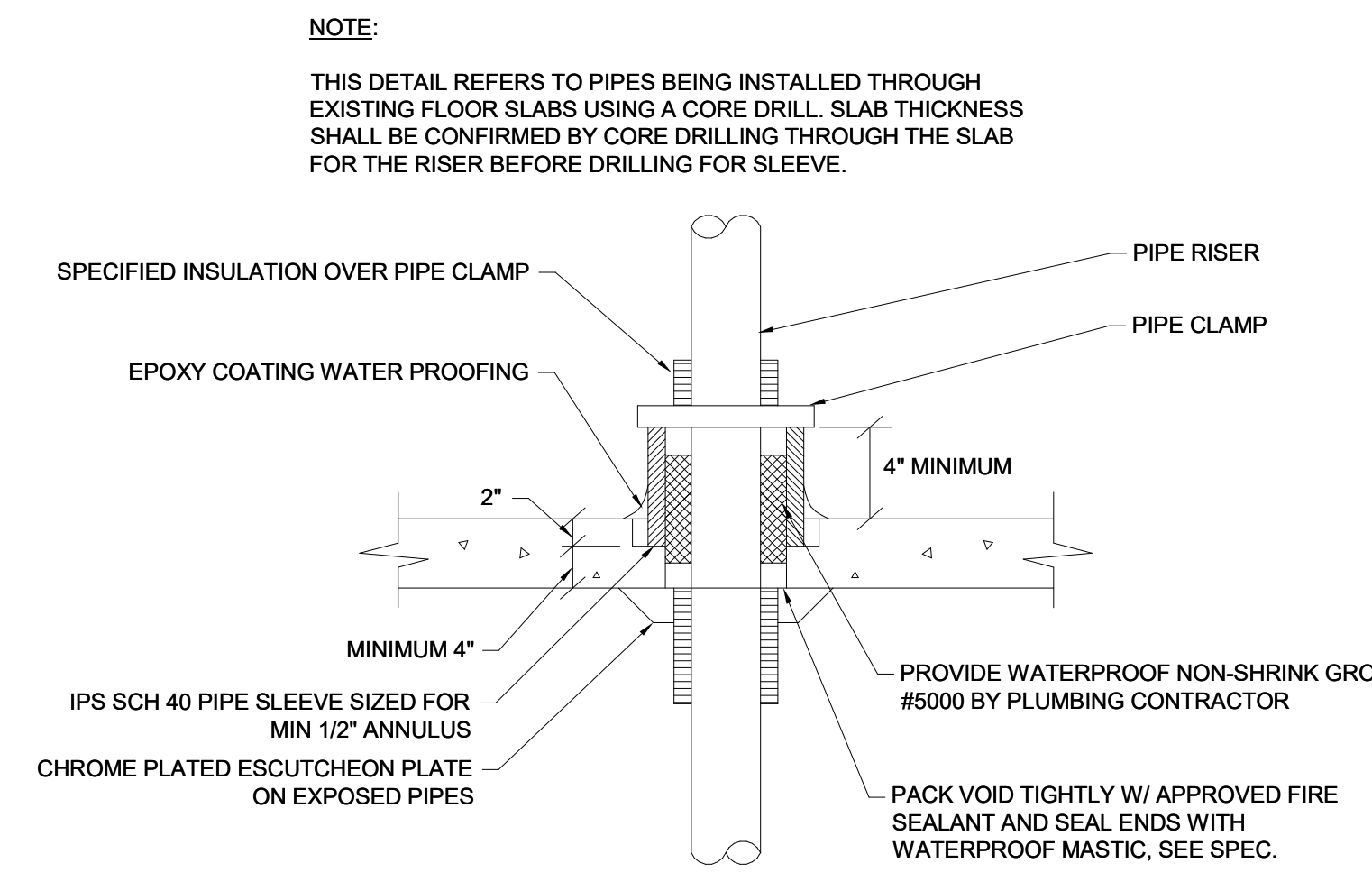
XL CENTER
CAPITAL REGION DEVELOPMENT AUTHORITY

SC I ARCHITECTS

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(646) 653-7410

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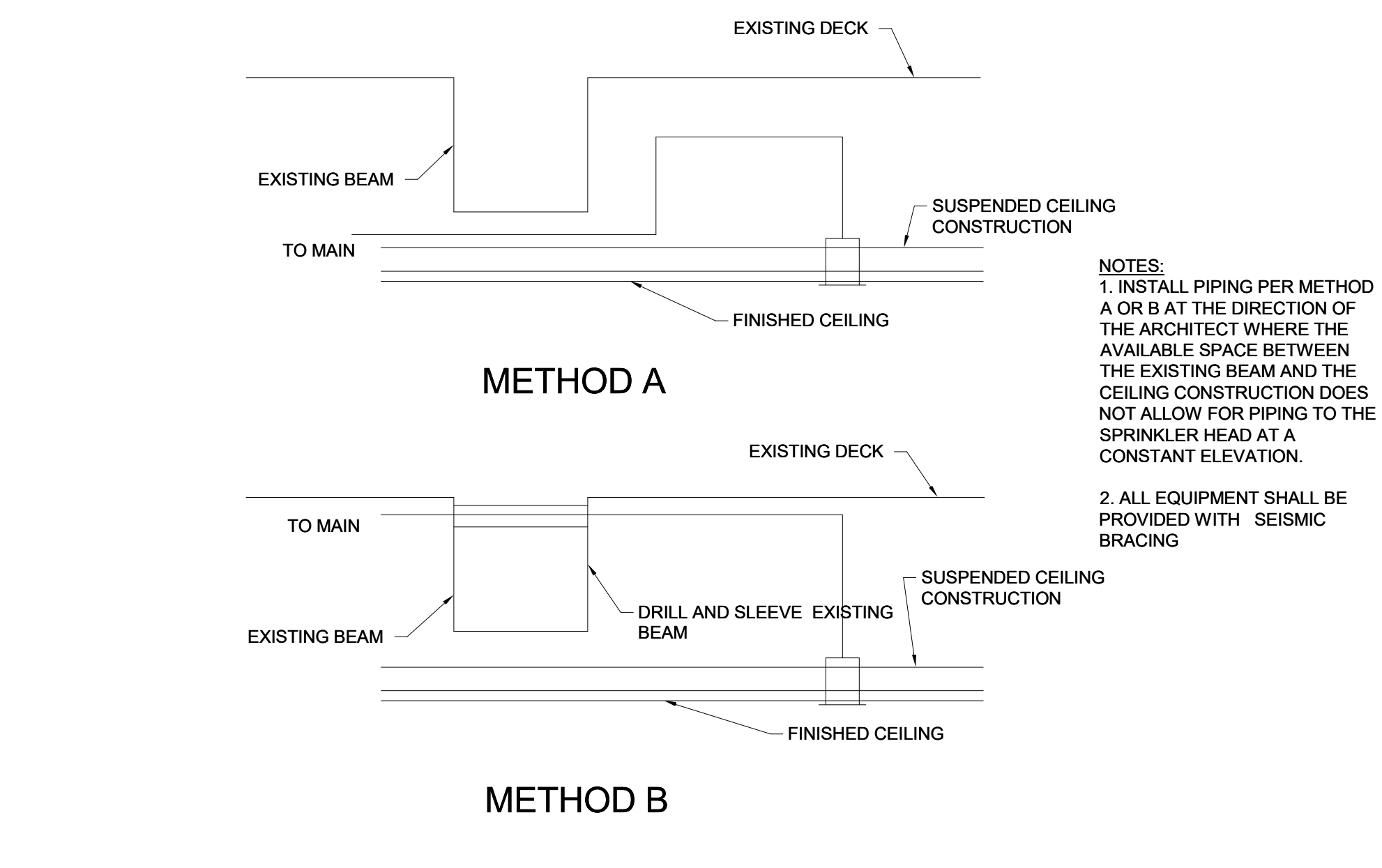
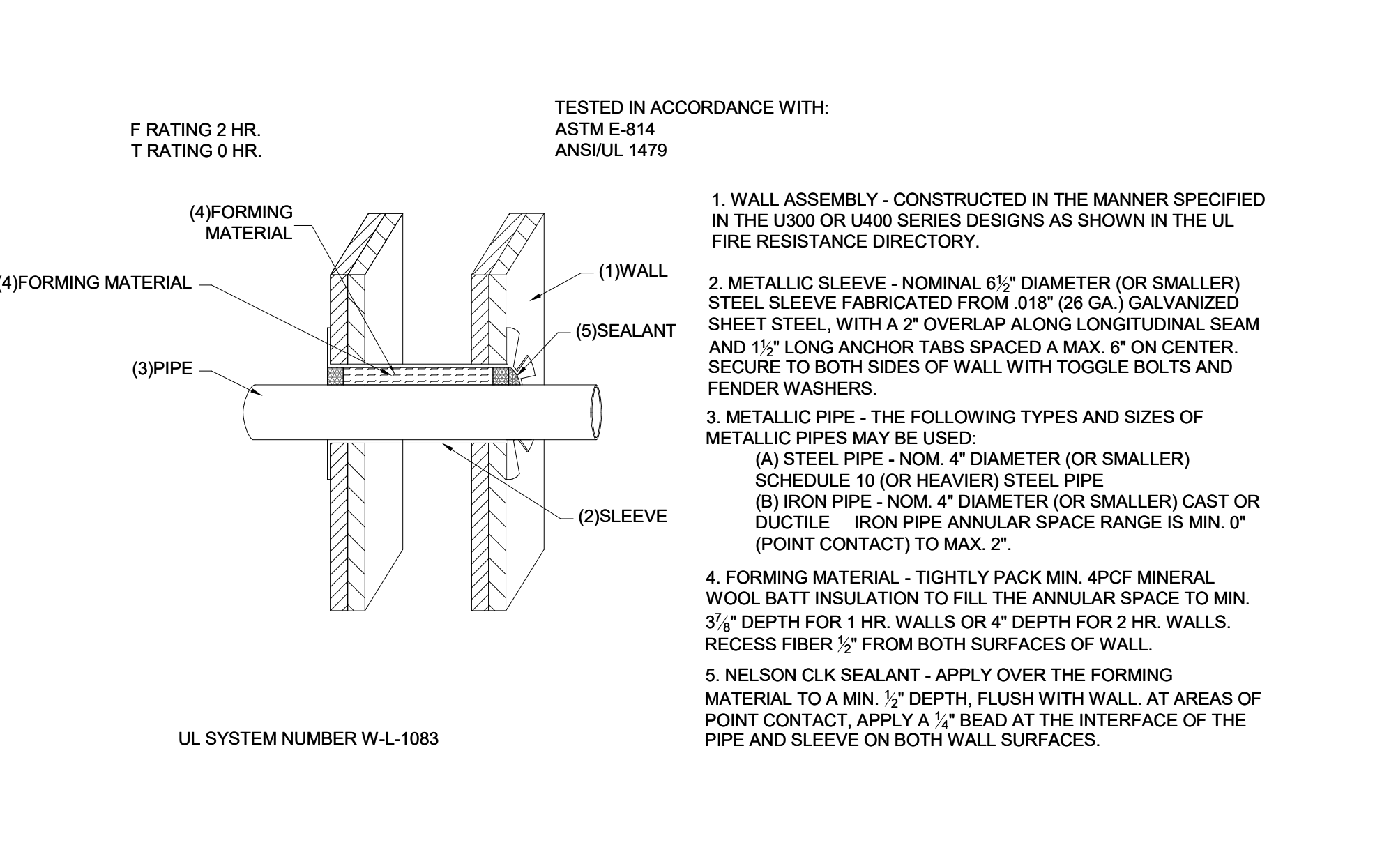
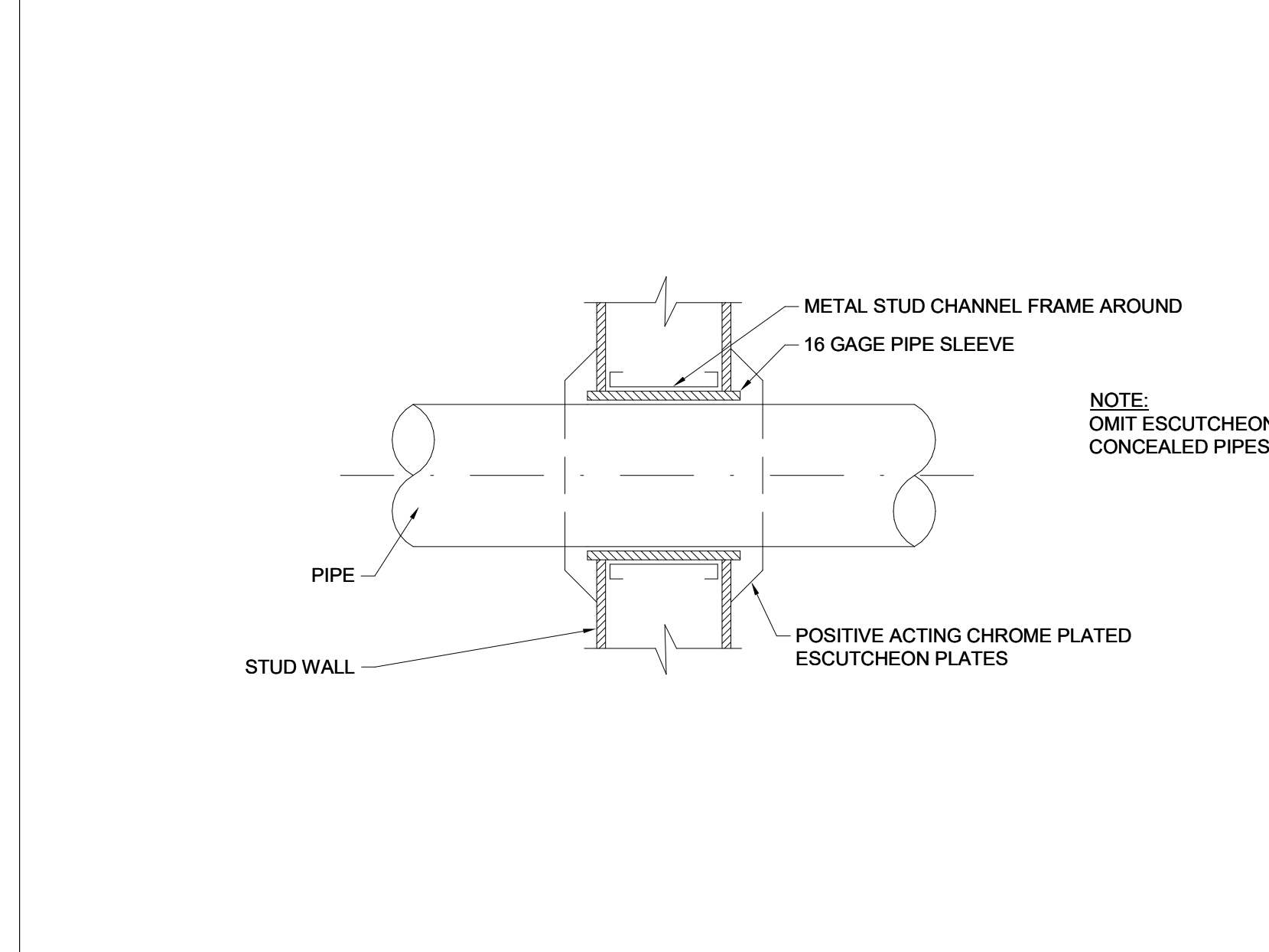
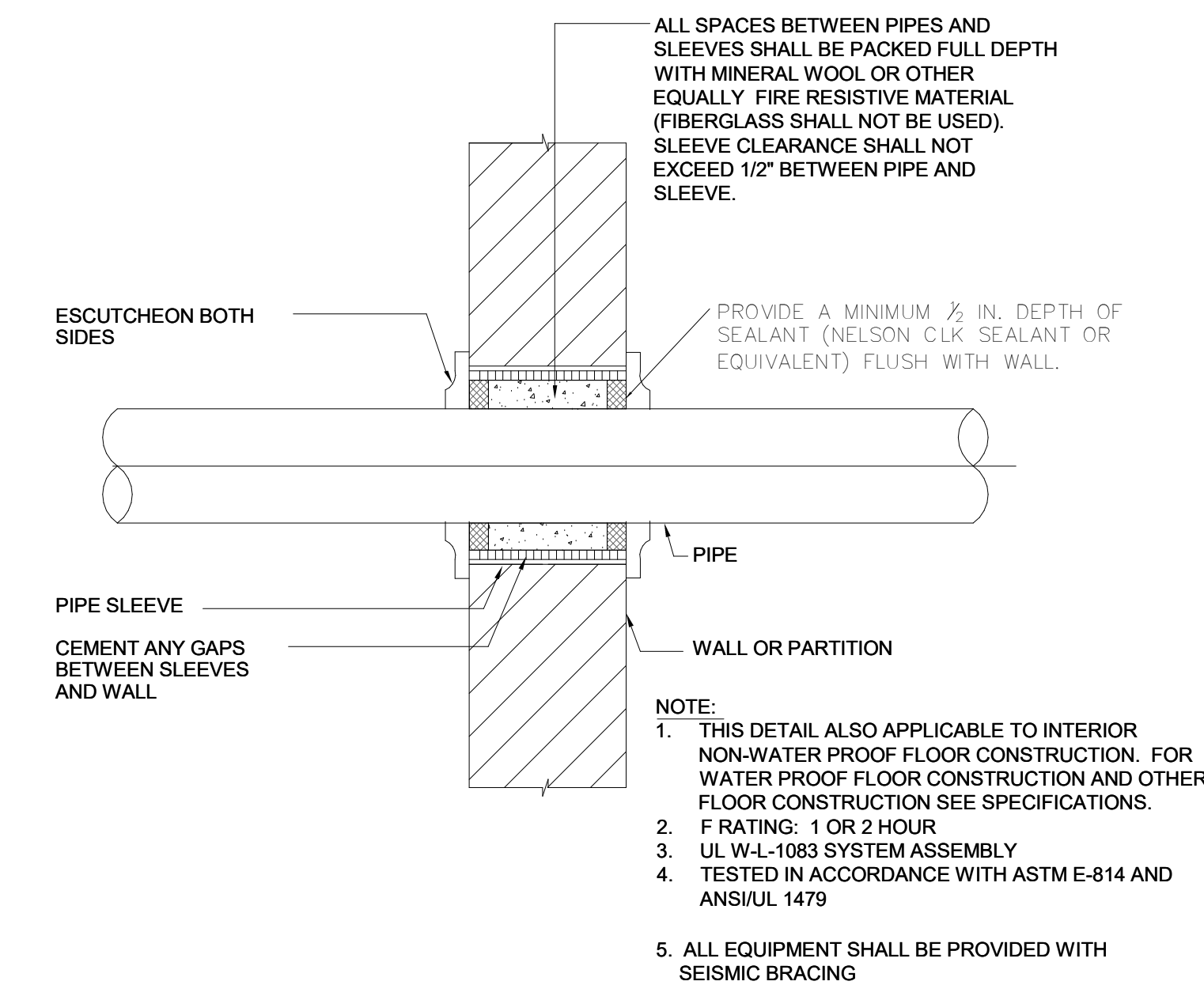


A DETAIL OF PIPE THRU EXISTING FLOOR SLAB
NO SCALE

B PIPE THRU FLOOR SLAB DETAIL
NO SCALE

C CLEVIS HANGER, PIPE 1 1/2\"/>

D METHODS OF PIPE SUPPORT
NO SCALE

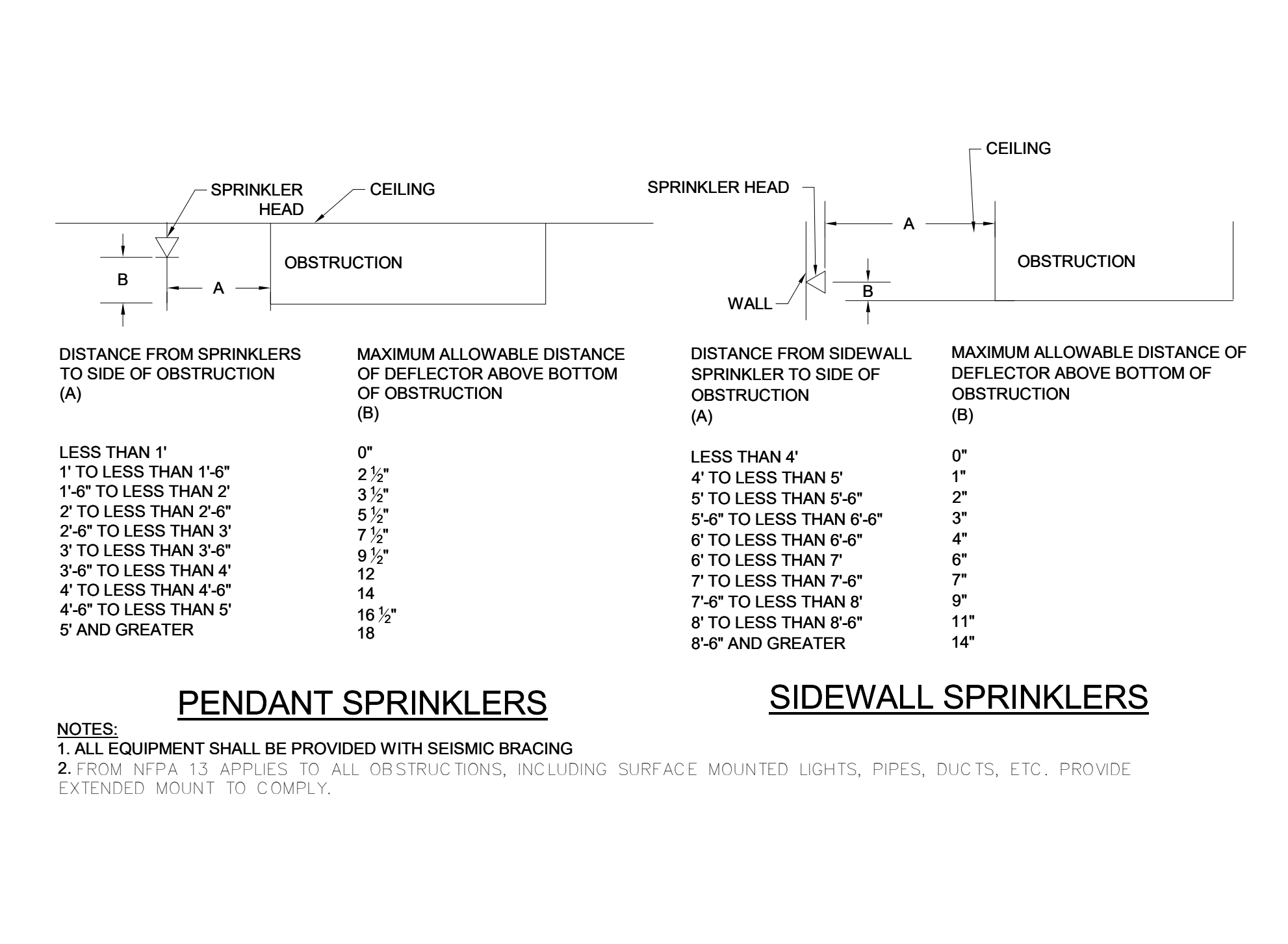
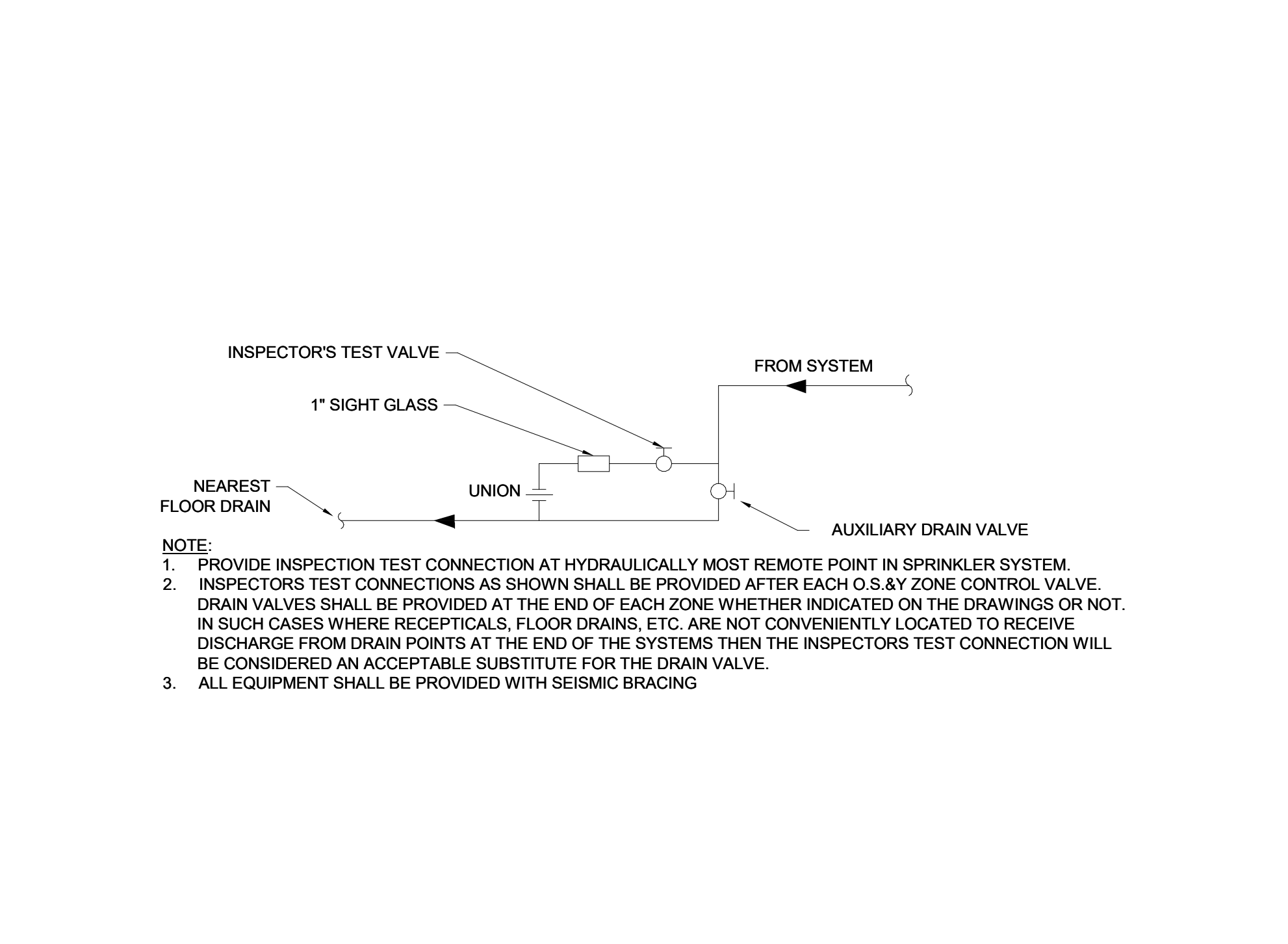
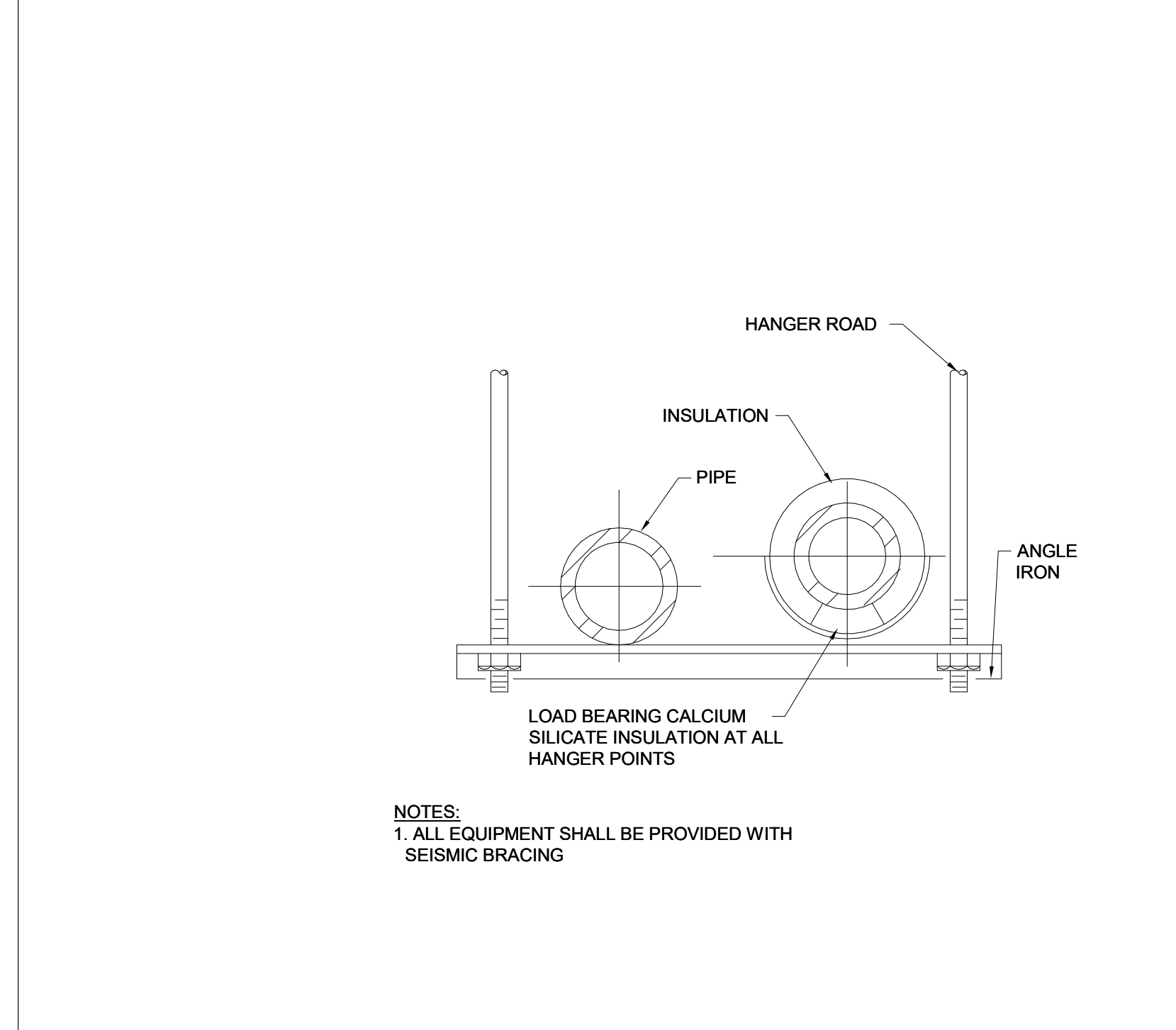
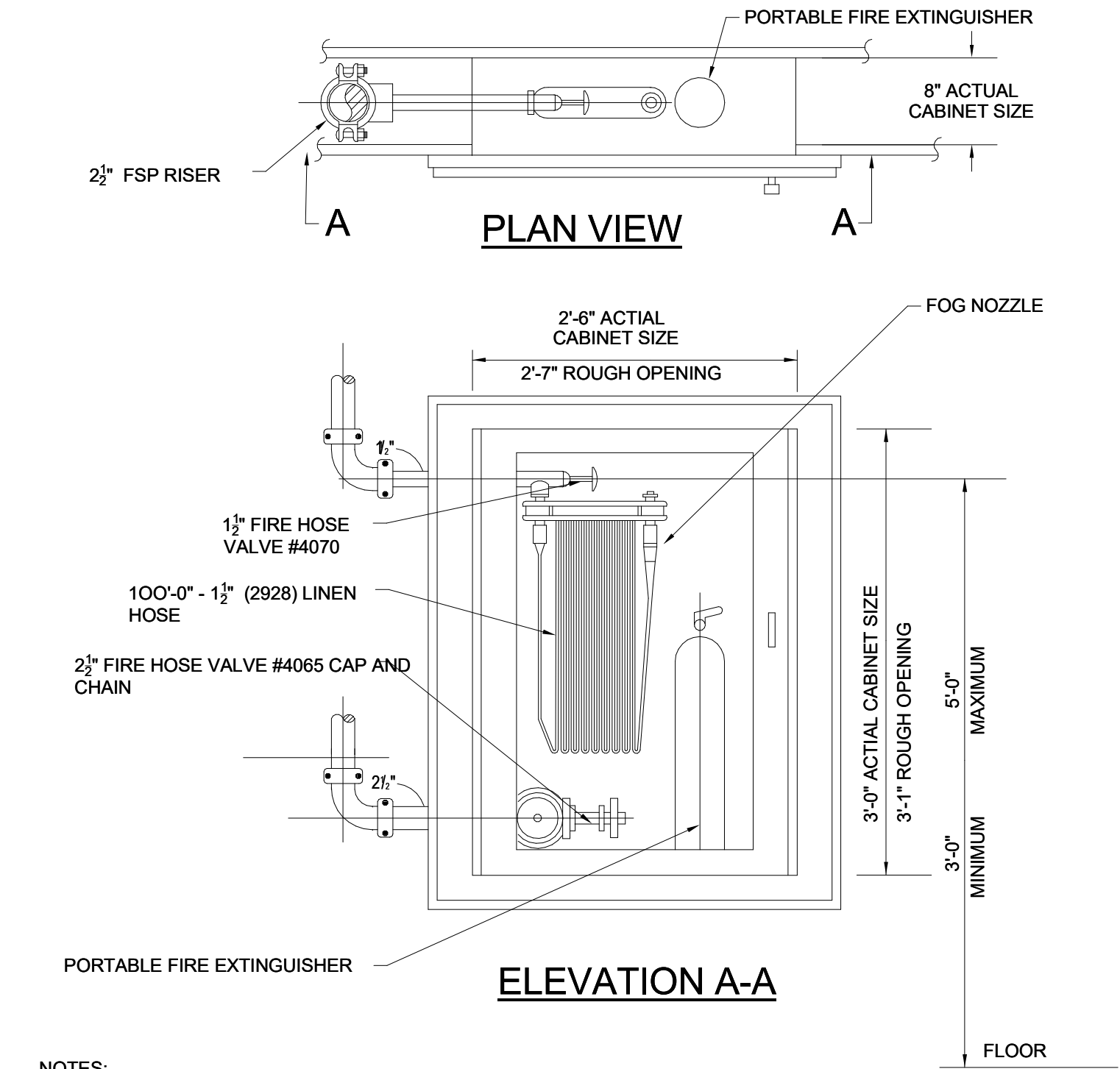


E DETAIL OF PIPING PIERCING REQUIRED FIRE RATED PARTITIONS AND WALL
NO SCALE

F PIPE THRU STUD WALL DETAIL
NO SCALE

G GYPSUM WALL UNINSULATED METALLIC PIPE FIRE STOPPING DETAIL
NO SCALE

H LOW BEAM CROSSING DETAIL
NO SCALE

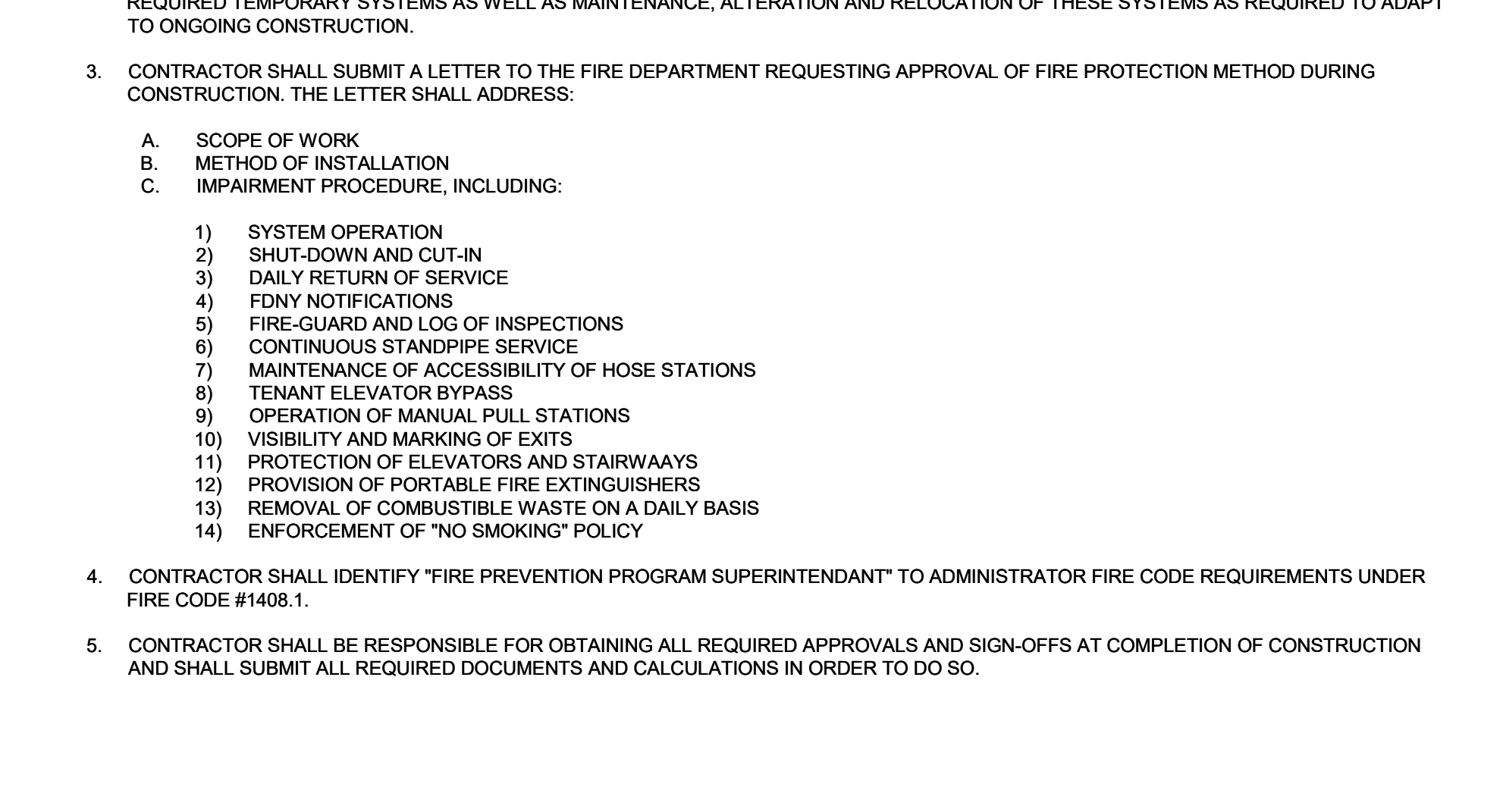
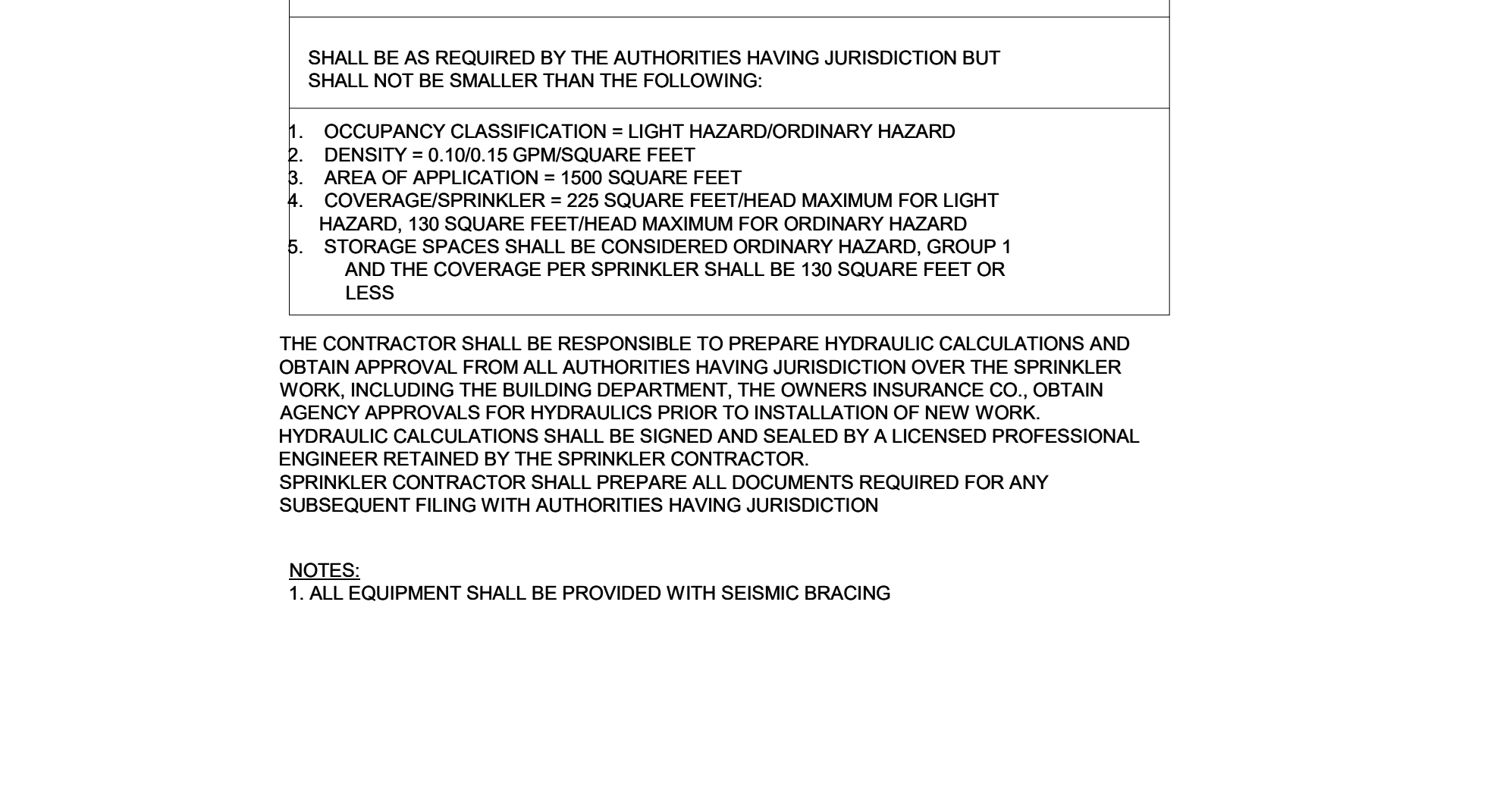
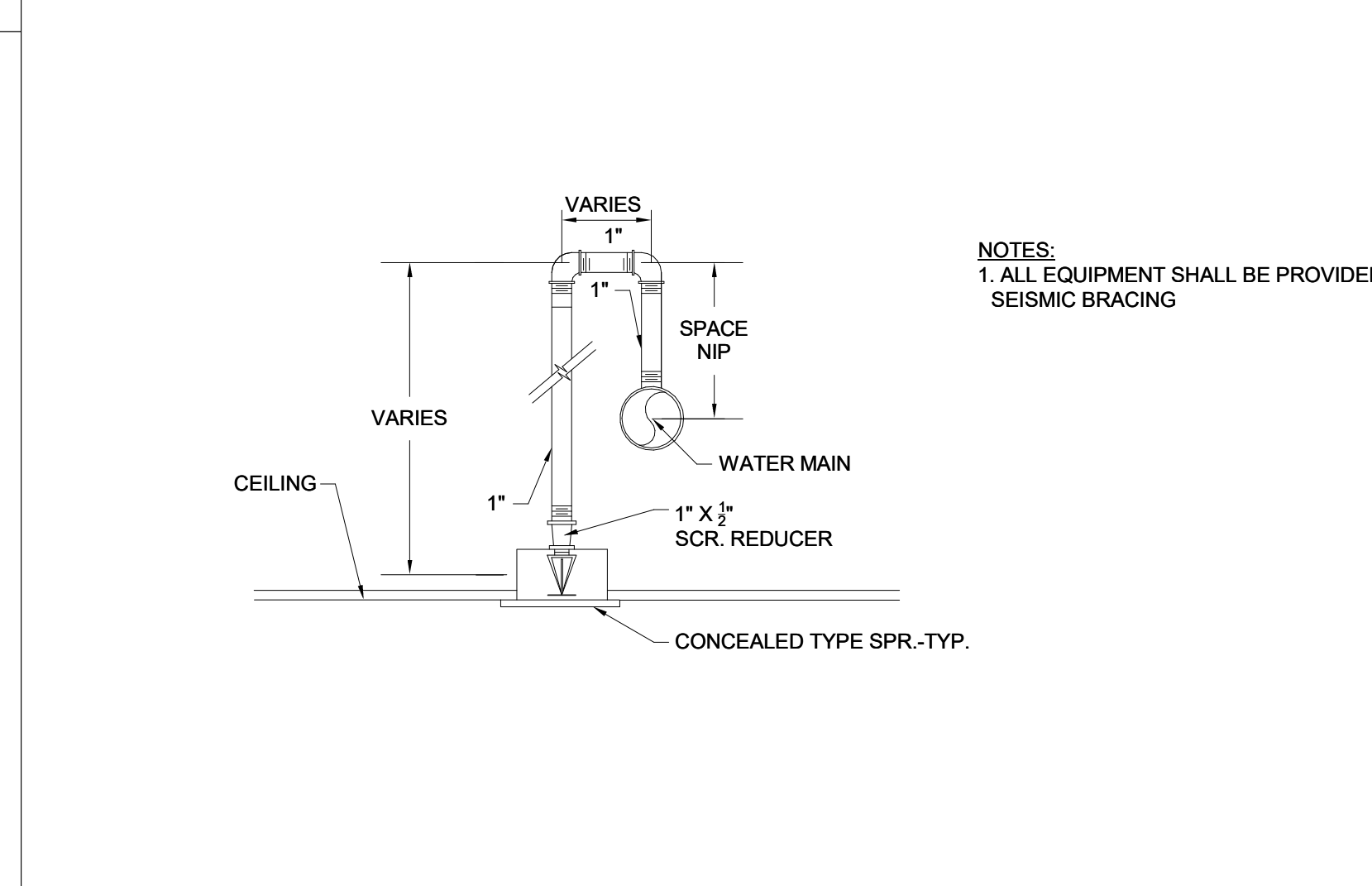
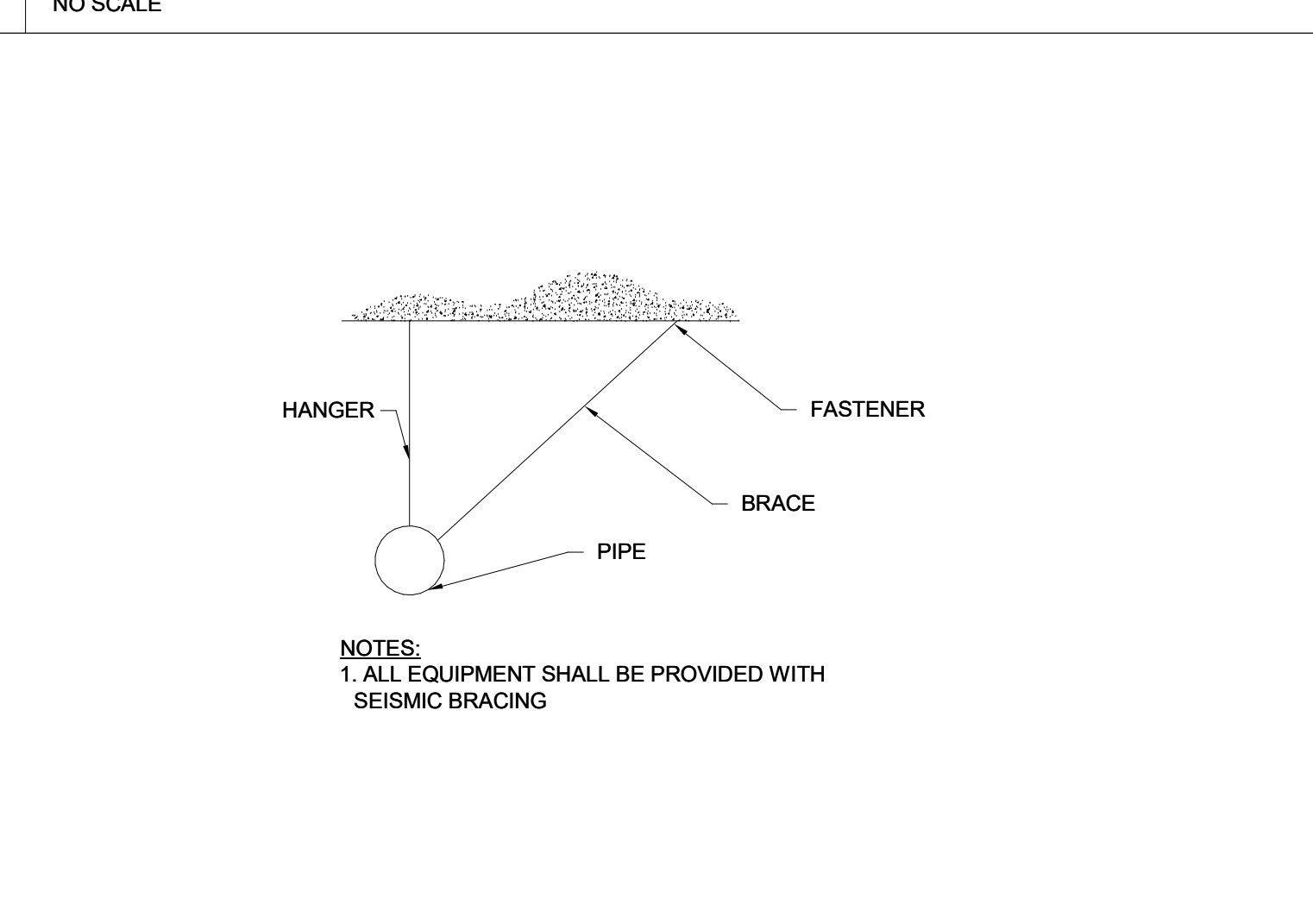


I DETAIL OF FIRE HOSE CABINET
NO SCALE

J TRAPEZE HANGER
NO SCALE

K INSPECTOR'S TEST CONN. ASSEMBLY
NO SCALE

L POSITIONING OF SPRINKLERS TO AVOID OBSTRUCTIONS TO DISCHARGE
NO SCALE



M SEISMIC BRACING DETAIL
NO SCALE

N RETURN - BEND DETAIL
NO SCALE

O HYDRAULIC SPRINKLER SIZING CRITERIA
NO SCALE

P FIRE PROTECTION NOTES RELATING TO CONSTRUCTION IN CT
NO SCALE

NO.	DESCRIPTION	DATE
1	ISSUED FOR T&S	10/1/99

REVISIONS/ ISSUES

NO.	DESCRIPTION	DATE
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SEAL

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1 CIVIC CENTER PLAZA
HARTFORD, CT

DWG TITLE: FIRE PROTECTION DETAILS I - PHASE 2
SCALE: 1/8\"/>