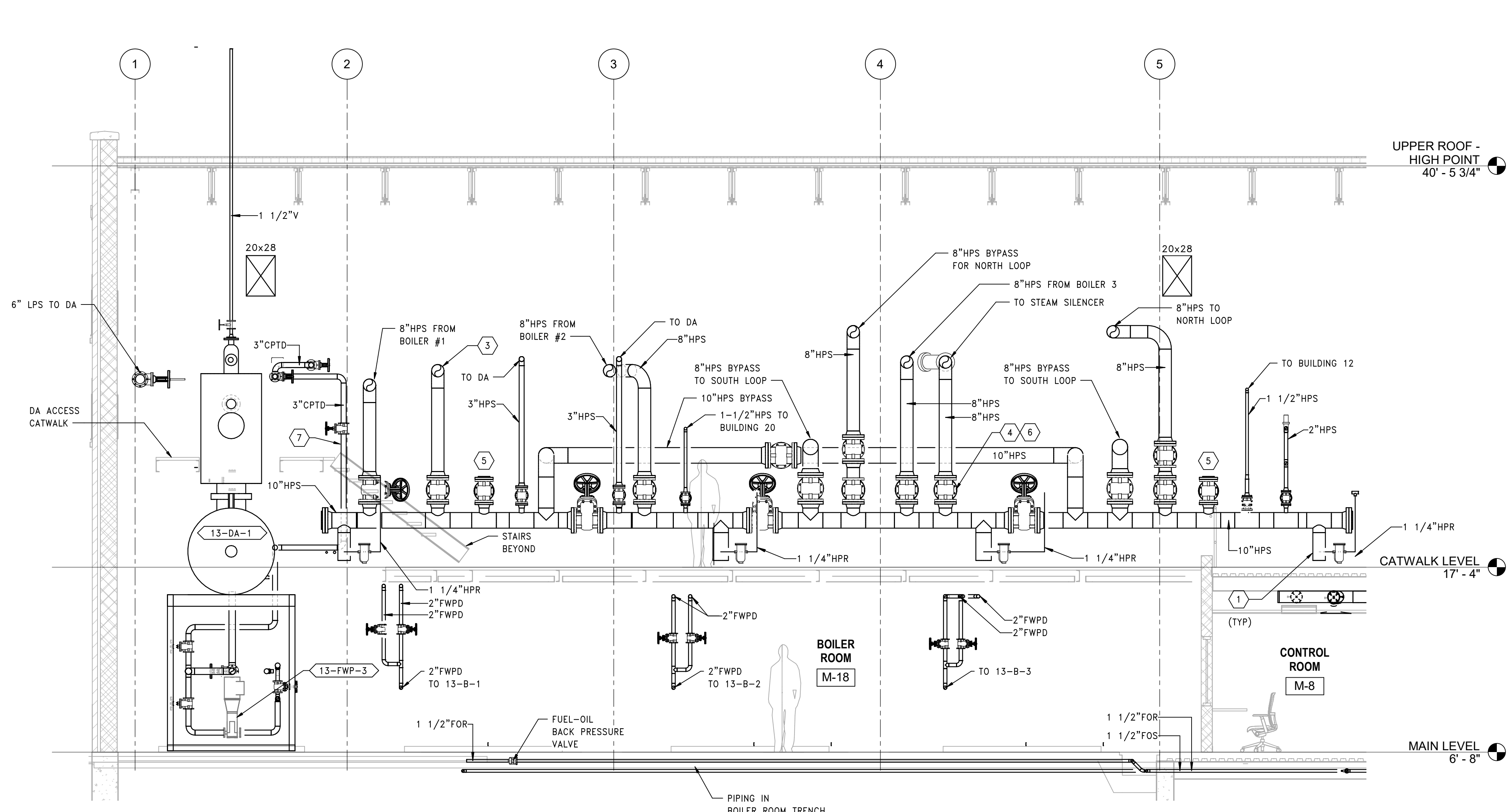


GENERAL SHEET NOTES:

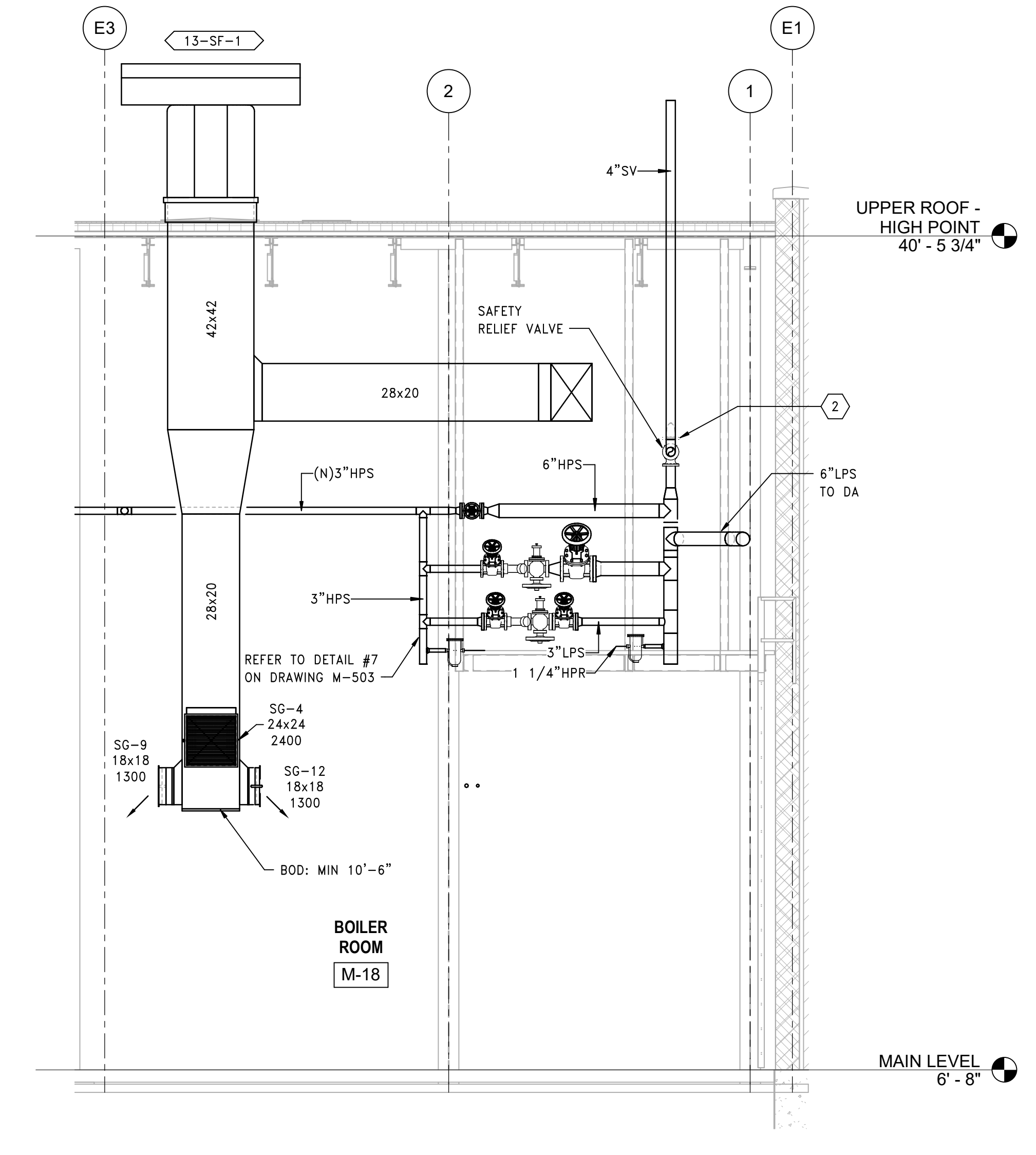
- REFER TO DRAWING M-001 FOR NOTES, SYMBOLS AND ABBREVIATIONS.
- REFER TO DRAWINGS MP601, MP602, MP603 AND MP604 FOR SYSTEM FLOW DIAGRAMS.
- REFER TO DRAWINGS M-701, M-702, M-703 AND M-704 FOR EQUIPMENT SCHEDULES.
- CONTRACTOR SHALL SUBMIT A DETAILED LOCKOUT/TAGOUT PROCEDURE TO THE VA A MINIMUM OF 4 WORKING DAYS PRIOR TO PERFORMING ANY WORK ON ANY LIVE STEAM OR STEAM CONDENSATE SYSTEM OR EQUIPMENT.
- ALL VALVE HANDLES MUST BE ACCESSIBLE FROM A WALKABLE SURFACE. COORDINATE LOCATION WITH ALL TRADES.

SHEET KEYNOTES:

- STEAM MAIN DRIP LEG. REFER TO DETAIL 5 ON DRAWING M-503.
- PROVIDE DRIP PAN ELBOW PER DETAIL 8 ON DRAWING M-503.
- 8" DIA HPS TO TEMPORARY CONNECTION FOR FUTURE RENTAL BOILER.
- ALL ISOLATION VALVES MUST BE ACCESSIBLE FROM A WALKABLE SURFACE.
- 6" DIA VALVED SPARE CONNECTION WITH 300# BLIND FLANGE.
- ALL MAIN STEAM VALVES TO HAVE 1" BYPASS LINE WITH GLOBE VALVE FOR WARM-UP. NOT SHOWN FOR CLARITY.
- 3" CPTD - DA TANK BYPASS DOWN TO FEEDWATER PUMP SUCTION HEADER.



1 SECTION @ STEAM HEADER
 SCALE: 1/4" = 1'-0"
 REF. MP121.02



2 SECTION @ DA PRV STATION
 SCALE: 1/4" = 1'-0"
 REF. MP121.02

PRINTS OF THIS DRAWING SHALL NOT BE USED FOR ANY PURPOSE WHATSOEVER WITHOUT THE SEAL AND SIGNATURE OF THE PROFESSIONAL ENGINEER

NO.	DESCRIPTION	DATE

CONSULTANTS

<p>HAZARDOUS MATERIALS MABBETT & ASSOCIATES, INC. 105 CENTRAL STREET, STONEHAM, MA 02180 PHONE: (781)275-8550</p>	<p>FIRE SUPPRESSION KOFFEL ASSOCIATES 8815 CENTRE PARK DRIVE, SUITE 200, COLUMBIA, MD 21045 PHONE: (410)753-2246</p>
<p>CIVIL / STRUCTURAL PROFESSIONAL ENGINEERING CONSULTANTS, P.A. 303 SOUTH TOPEKA, WICHITA, KS 67202 PHONE: (316)262-2691</p>	<p>ELECTRONIC SECURITY MAGNA ENGINEERS 861 CORPORATE DRIVE, SUITE 210, LEXINGTON, KY 40503 PHONE: (859)309-2990</p>
<p>ARCHITECTURAL OCULUS INC. 1 SOUTH MEMORIAL DRIVE, SUITE 1500, SAINT LOUIS, MO 63102 PHONE: (314)367-6100</p>	<p>PHYSICAL SECURITY FORCE PROTECT 3210 GULF BLVD, UNIT 304, BELLEAIR BEACH, FL 33786 PHONE: (502)836-4232</p>

ENGINEER OF RECORD

<p>Miller-Remick LLC M.E.P. & Structural Engineering A Service Disabled Veteran Owned Small Business 1010 KINGS HIGHWAY SOUTH CHERRY HILL, NEW JERSEY 08034 PHONE: (856)429-4000 FAX: (856)429-5022 MR PROJECT NO: 0499-0121</p>	<p>ANTHONY D. PACIARO LICENSED PROFESSIONAL ENGINEER 26413 9.3.2021</p>
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Office of Construction and Facilities Management

U.S. Department of Veterans Affairs

<p>Drawing Title MECHANICAL SECTIONS</p>	<p>Phase 100% BID SET</p>
<p>Approved: Project Director</p>	<p>Project Title INSTALL NEW BOILERS IN BUILDING 13</p>
<p>Project Number 589A7-18-302</p>	<p>Location ROBERT J. DOLE VA MEDICAL CENTER WICHITA, KANSAS</p>
<p>Building Number 13</p>	<p>Drawing Number 13-M-302</p>
<p>Issue Date 2021-09-03</p>	<p>Checked AP</p>
<p>Drawn GDS</p>	<p>Project Title FULLY SPRINKLERED</p>

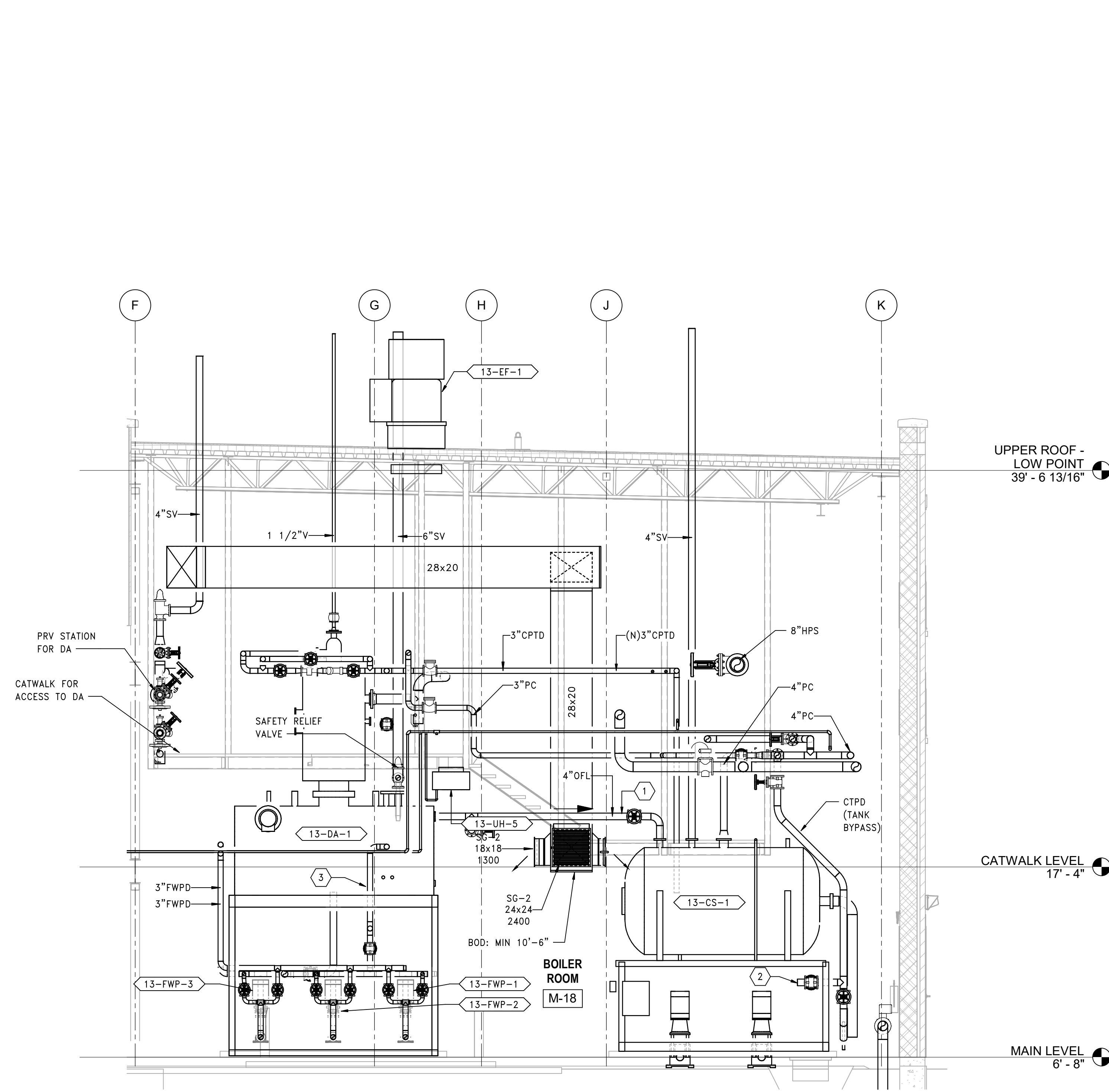
<p>Project Title INSTALL NEW BOILERS IN BUILDING 13</p>	<p>Location ROBERT J. DOLE VA MEDICAL CENTER WICHITA, KANSAS</p>
<p>Issue Date 2021-09-03</p>	<p>Checked AP</p>
<p>Drawn GDS</p>	<p>Project Title FULLY SPRINKLERED</p>

GENERAL SHEET NOTES:

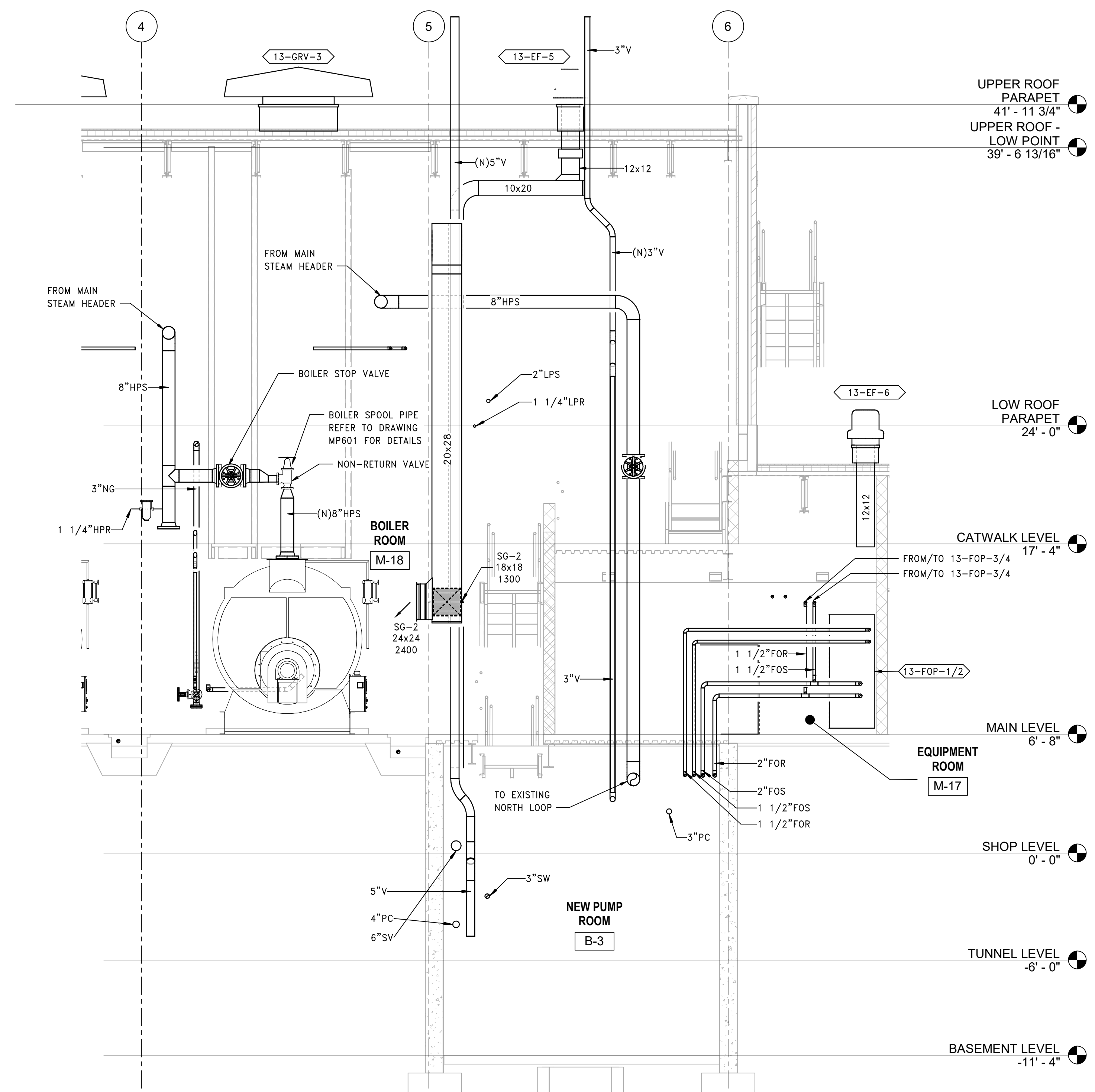
- REFER TO DRAWING M-001 FOR NOTES, SYMBOLS AND ABBREVIATIONS.
- REFER TO DRAWINGS MP601, MP602, MP603 AND MP604 FOR SYSTEM FLOW DIAGRAMS.
- REFER TO DRAWINGS M-701, M-702, M-703 AND M-704 FOR EQUIPMENT SCHEDULES.
- CONTRACTOR SHALL SUBMIT A DETAILED LOCKOUT/TAGOUT PROCEDURE TO THE VA A MINIMUM OF 4 WORKING DAYS PRIOR TO PERFORMING ANY WORK ON ANY LIVE STEAM OR STEAM CONDENSATE SYSTEM OR EQUIPMENT.
- ALL VALVE HANDLES MUST BE ACCESSIBLE FROM A WALKABLE SURFACE. COORDINATE LOCATION WITH ALL TRADES.

SHEET KEYNOTES:

- SLOPE DA OVERFLOW LINE 1/8" PER FT. TOWARDS CONDENSATE SURGE TANK (13-CS-1).
- 4" TANK SURGE TANK BYPASS CONNECT TO CONDENSATE TRANSFER PUMP SUCTION HEADER. PROVIDE SEPARATE VALVED PIPE TO DRAIN. REFER TO DRAWING MP603 FOR ADDITIONAL DETAILS.
- 3" CTPD - DA TANK BYPASS DOWN TO FEEDWATER PUMP SUCTION HEADER.



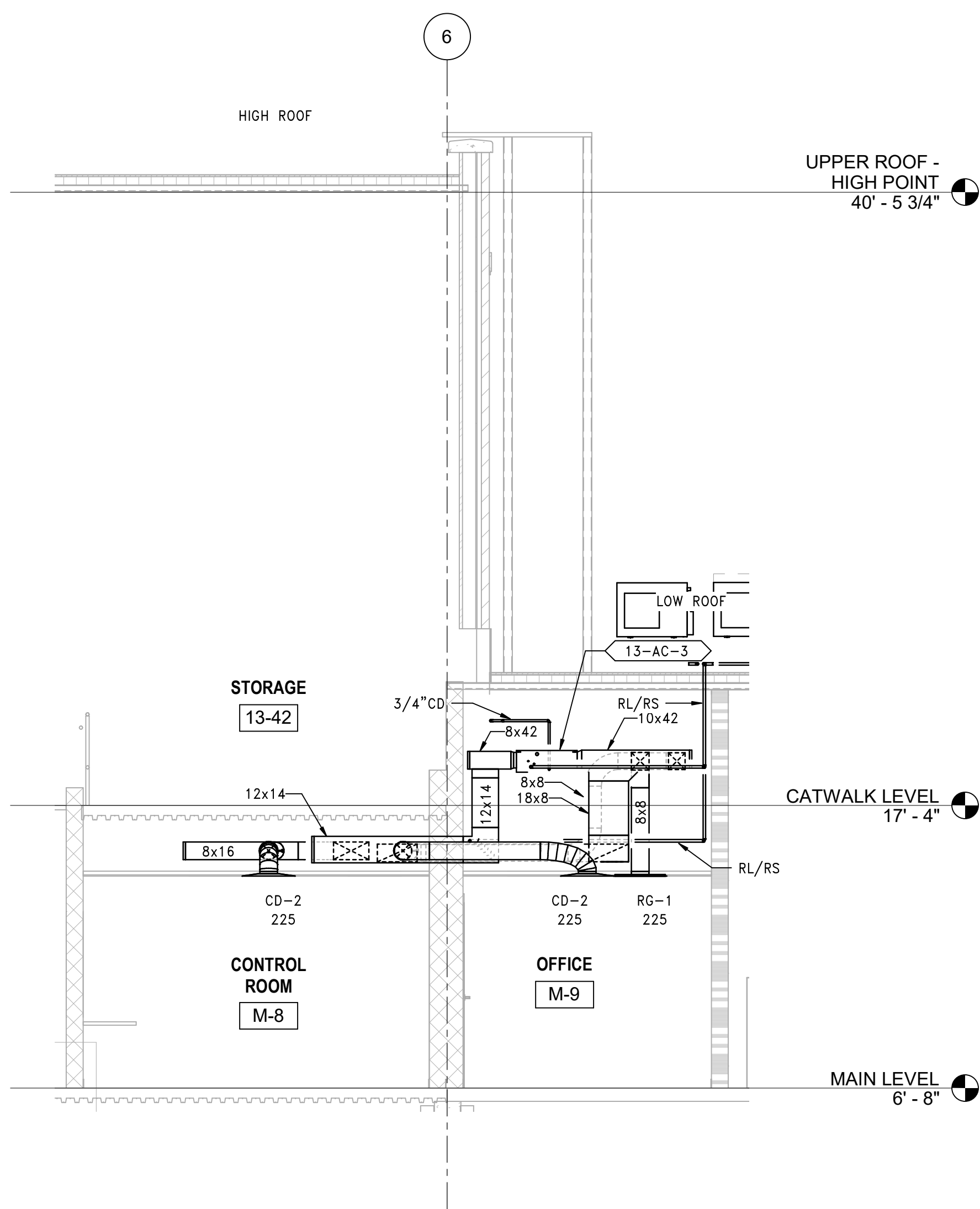
1 SECTION @ DA & SURGE TANK
SCALE: 1/4" = 1'-0"



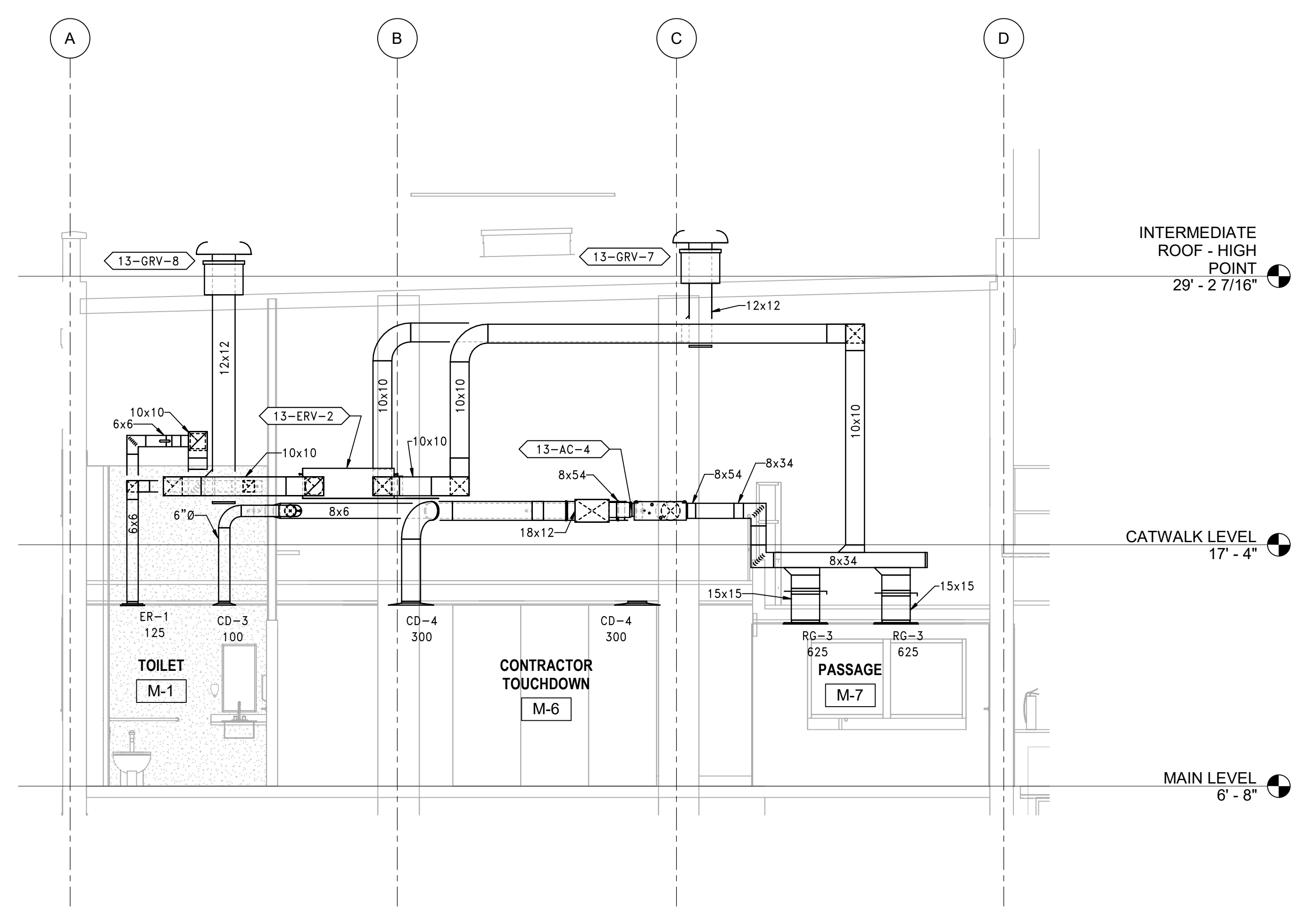
2 SECTION @ 8" HPS DROP TO NORTH LOOP & FUEL OIL PIPING
SCALE: 1/4" = 1'-0"

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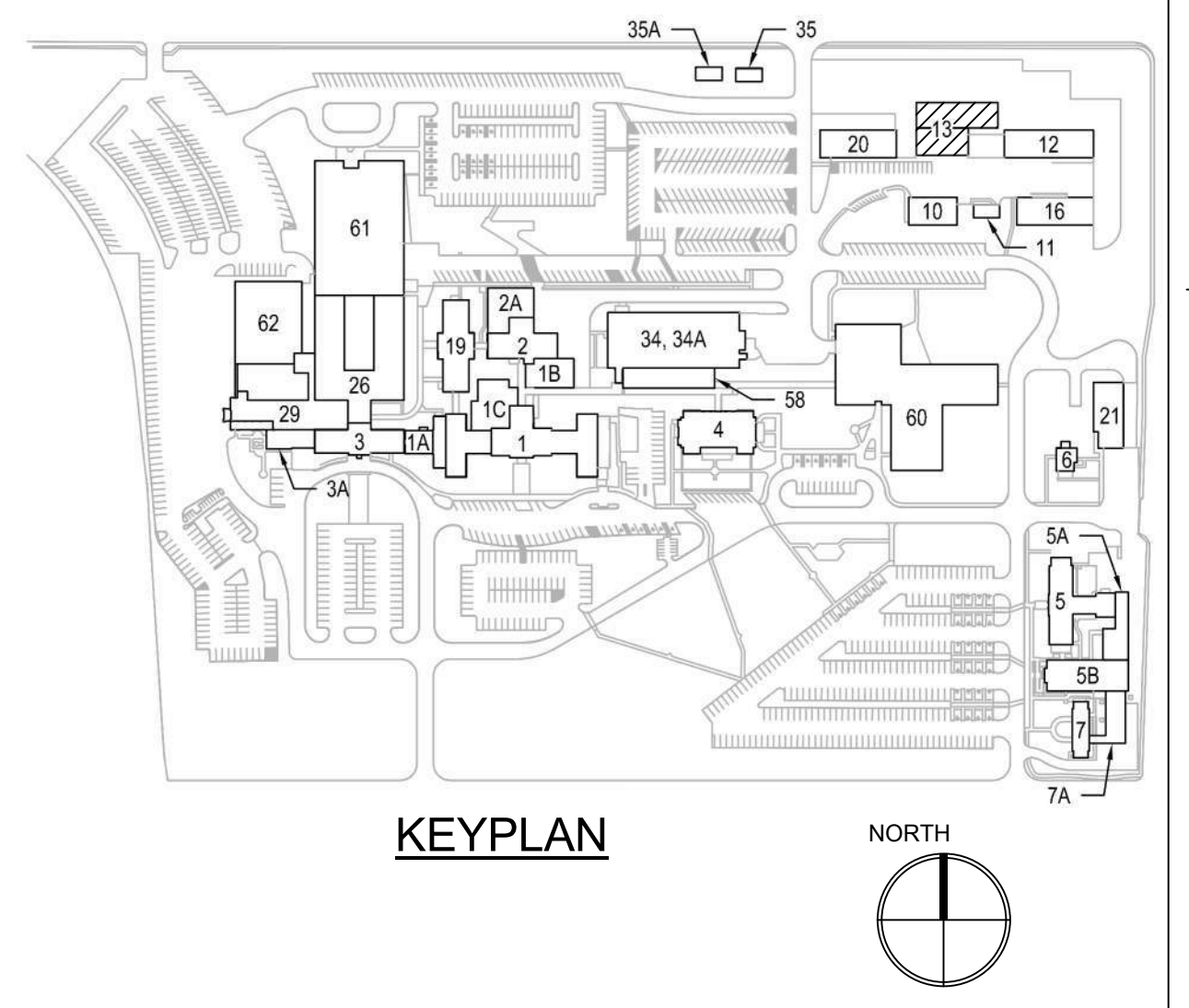
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2 SECTION - DUCTWORK PLAN PHASE 2
SCALE: 1/4" = 1'-0"



1 SECTION - DUCTWORK PLAN PHASE 3
SCALE: 1/4" = 1'-0"



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CONSULTANTS	
HAZARDOUS MATERIALS MABBETT & ASSOCIATES, INC. 105 CENTRAL STREET, STONEHAM, MA 02180 PHONE: (781)275-8050 CIVIL / STRUCTURAL PROFESSIONAL ENGINEERING CONSULTANTS, P.A. 303 SOUTH TOPEKA, WICHITA, KS 67202 PHONE: (316)262-2691 ARCHITECTURAL OCULUS INC. 1 SOUTH MEMORIAL DRIVE, SUITE 1500, SAINT LOUIS, MO 63102 PHONE: (314)367-6100	FIRE SUPPRESSION KOFFEL ASSOCIATES 8815 CENTRE PARK DRIVE, SUITE 200, COLUMBIA, MD 21045 PHONE: (410)753-2246 ELECTRONIC SECURITY MAGNA ENGINEERS 861 CORPORATE DRIVE, SUITE 210, LEXINGTON, KY 40503 PHONE: (859)309-2990 PHYSICAL SECURITY FORCE PROTECT 3210 GULF BLVD, UNIT 304, BELLEAIR BEACH, FL 33786 PHONE: (502)836-4232

ENGINEER OF RECORD

Miller-Remick LLC
 M.E.P. & Structural Engineering
 A Service Disabled Veteran Owned Small Business

1010 KINGS HIGHWAY SOUTH
 CHERRY HILL, NEW JERSEY 08034
 PHONE: (856)429-4000
 FAX: (856)429-9002
 MR PROJECT NO: 0499-0121

MILLER-REMICK LLC
 PROFESSIONAL ENGINEER

ANTHONY D. PACIARD
 LICENSED
 26413
 KANSAS
 PROFESSIONAL ENGINEER
 2.3.2021

Office of
 Construction
 and Facilities
 Management

VA U.S. Department of Veterans Affairs

Drawing Title MECHANICAL SECTIONS
Approved: Project Director

Phase 100% BID SET
FULLY SPRINKLERED

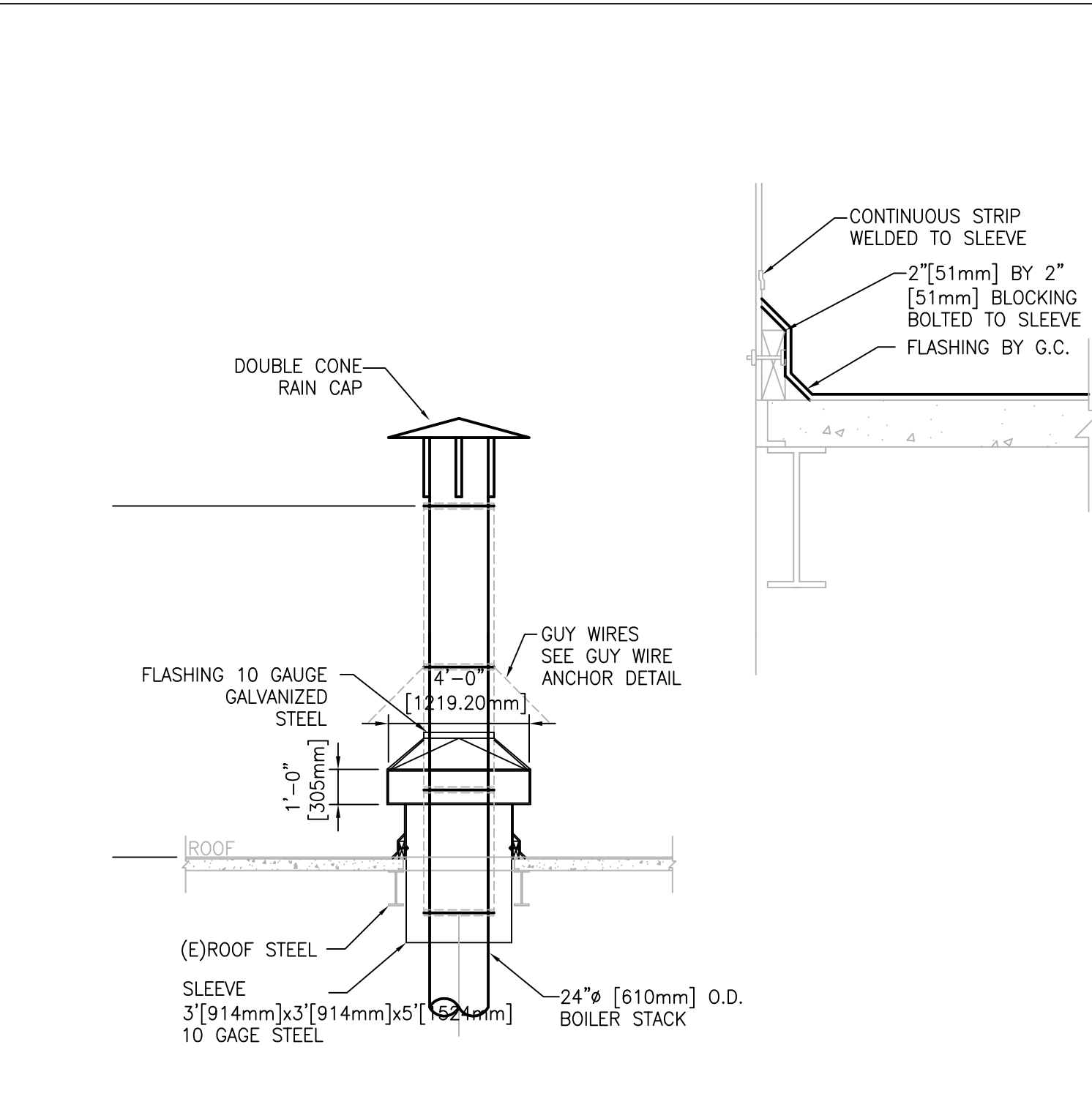
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Location ROBERT J. DOLE VA MEDICAL CENTER WICHITA, KANSAS
Issue Date 2021-09-03
Checked AP
Drawn GDS

Project Number 589A7-18-302
Building Number 13
Drawing Number 13-M-305

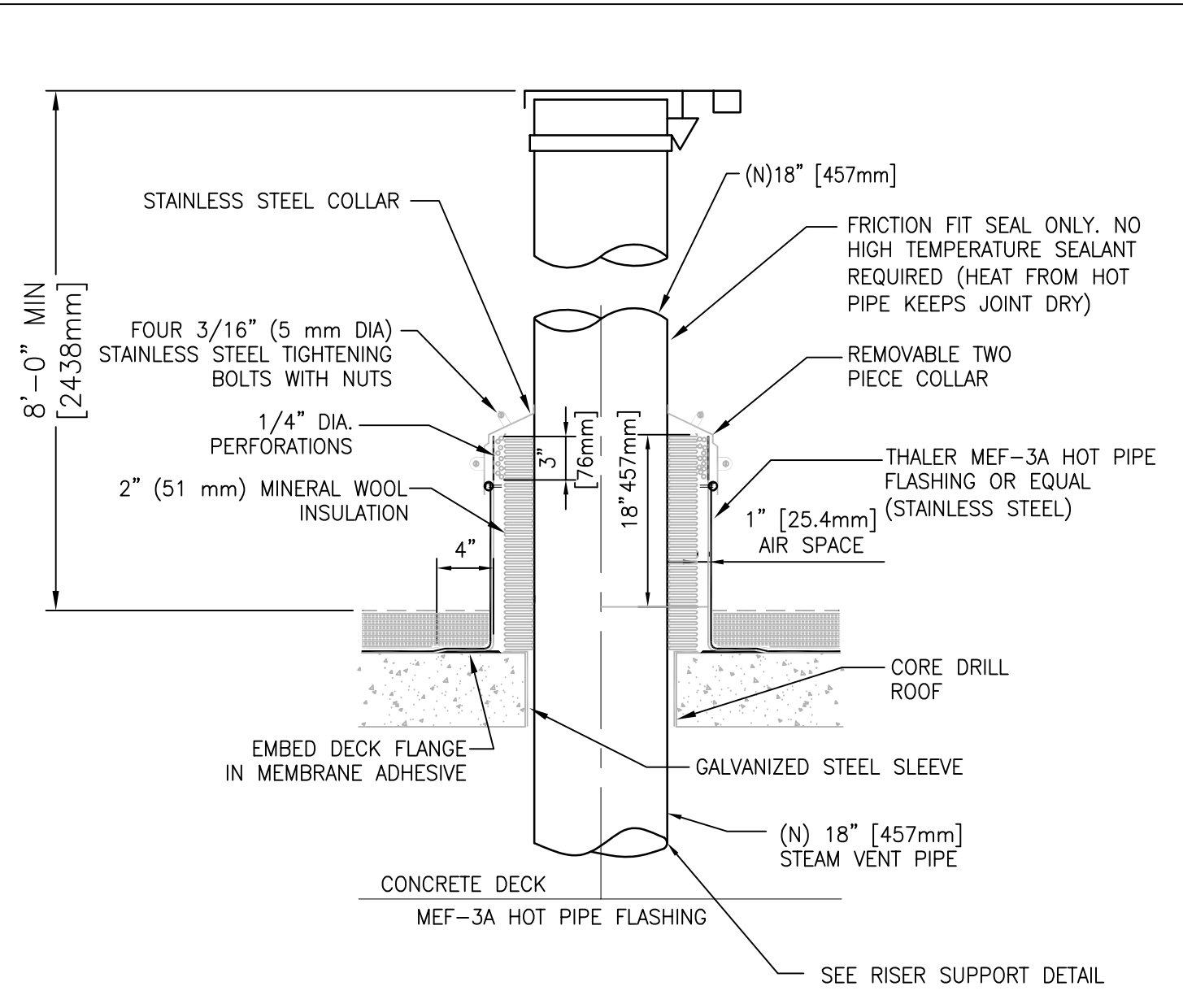
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 VA FORM 08 - 6231

three inches = one foot
 one and one half inches = one foot
 one inch = one foot
 three quarters inch = one foot
 one half inch = one foot
 one quarter inch = one foot
 one eighth inch = one foot

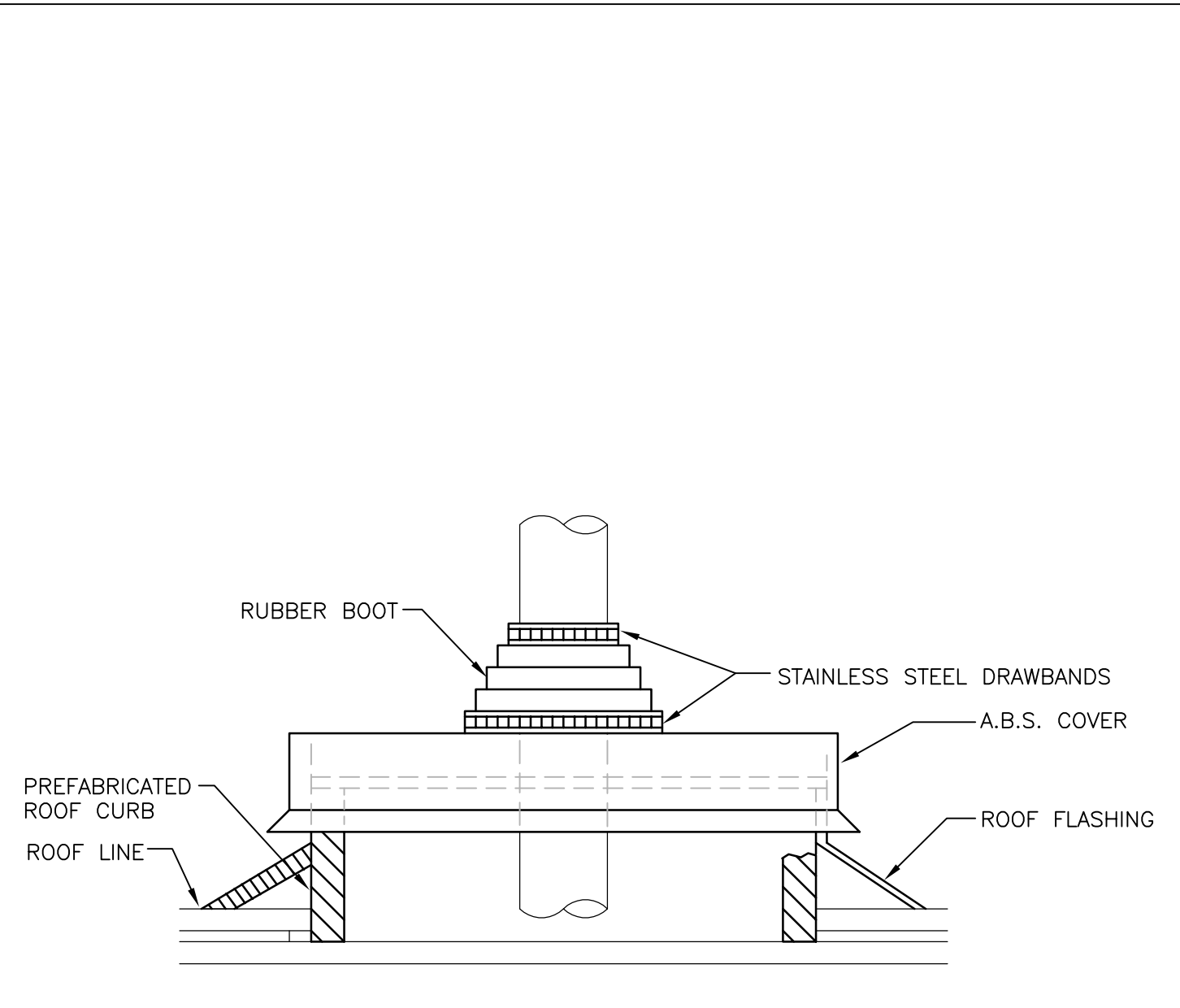
A
 B
 C
 D
 E
 F



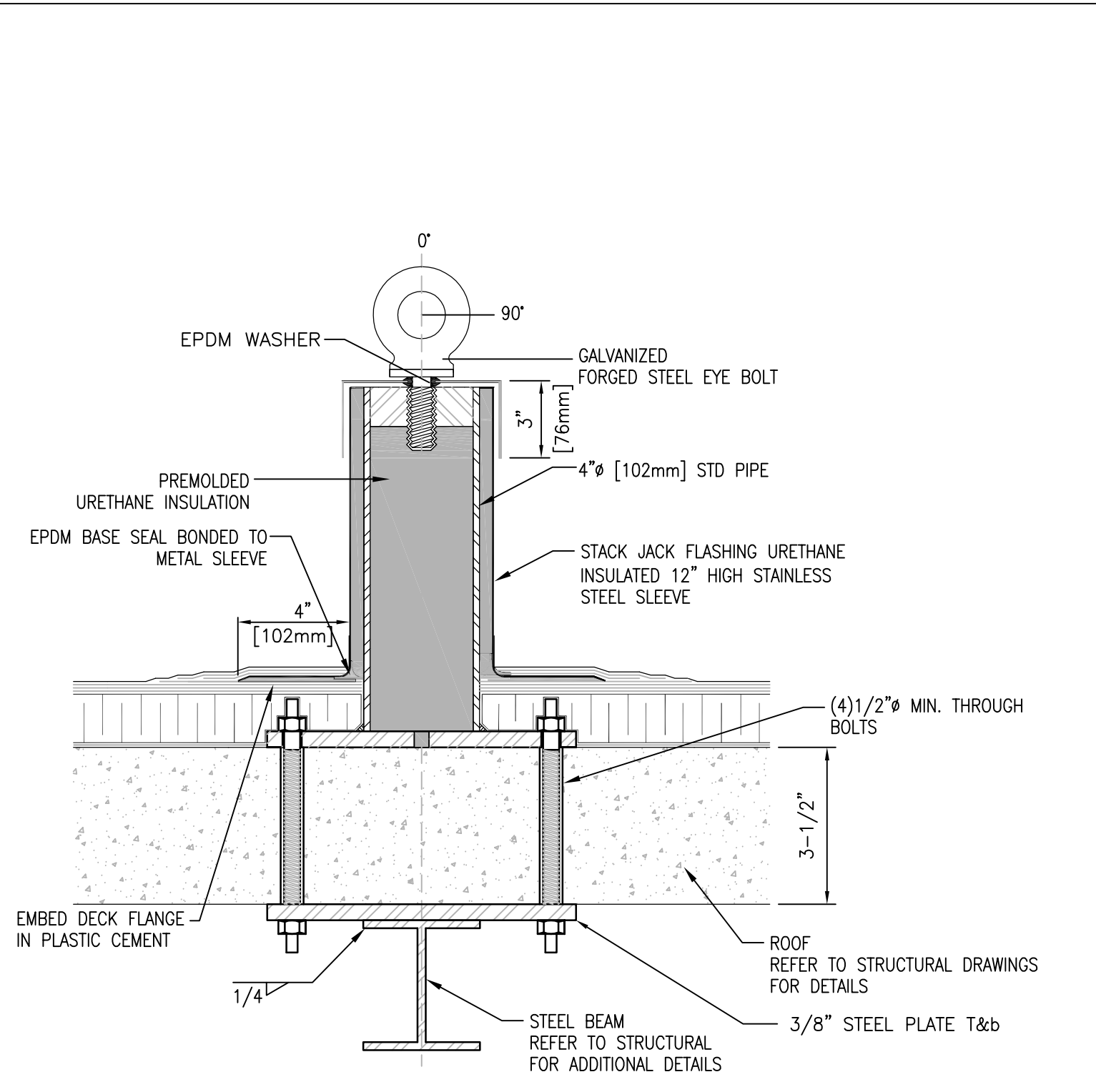
1 BOILER STACK THROUGH ROOF PENETRATION DETAIL
SCALE: NTS



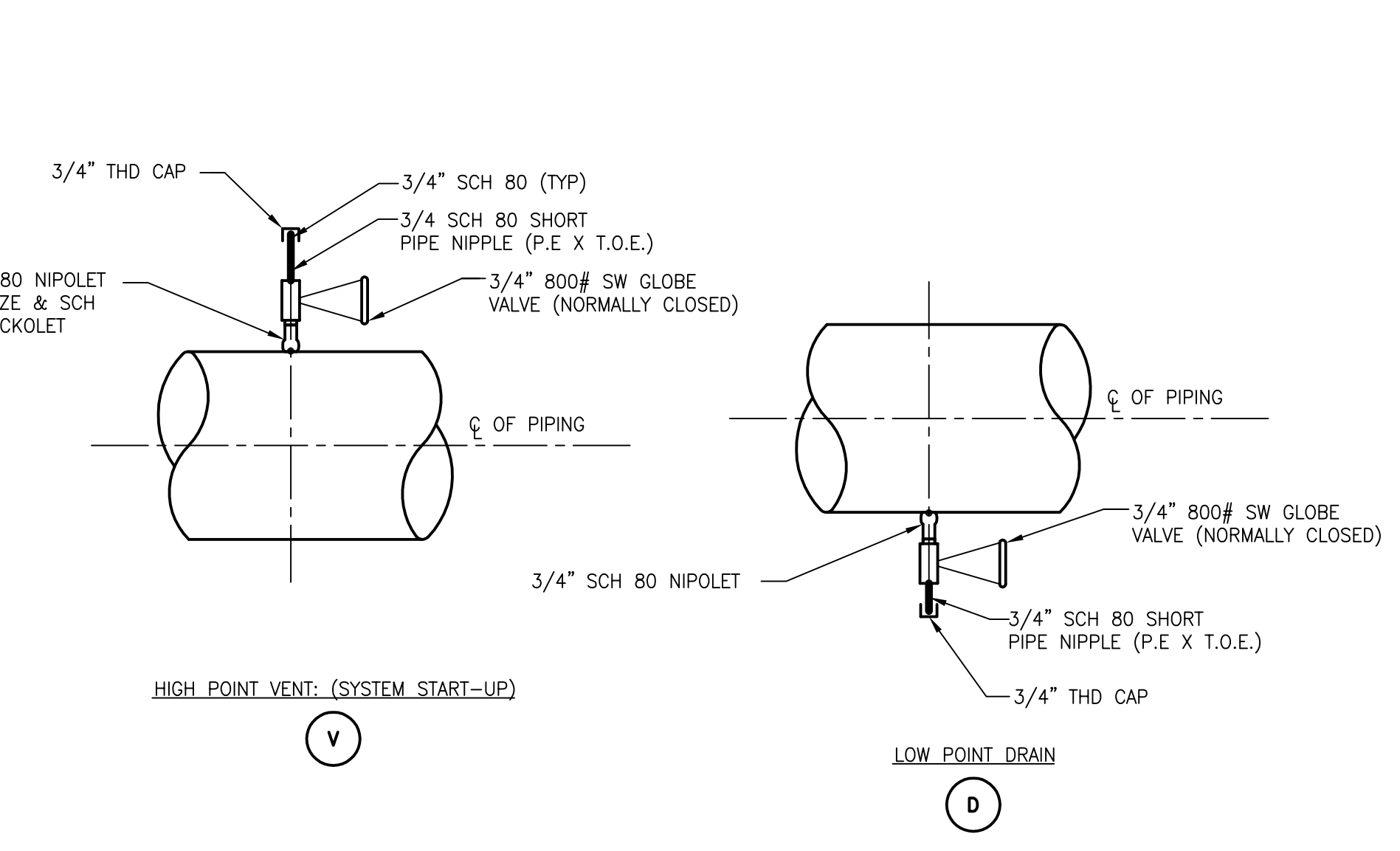
2 STEAM SILENCER EXHAUST PIPE THROUGH EXISTING ROOF PENETRATION DETAIL
SCALE: NTS



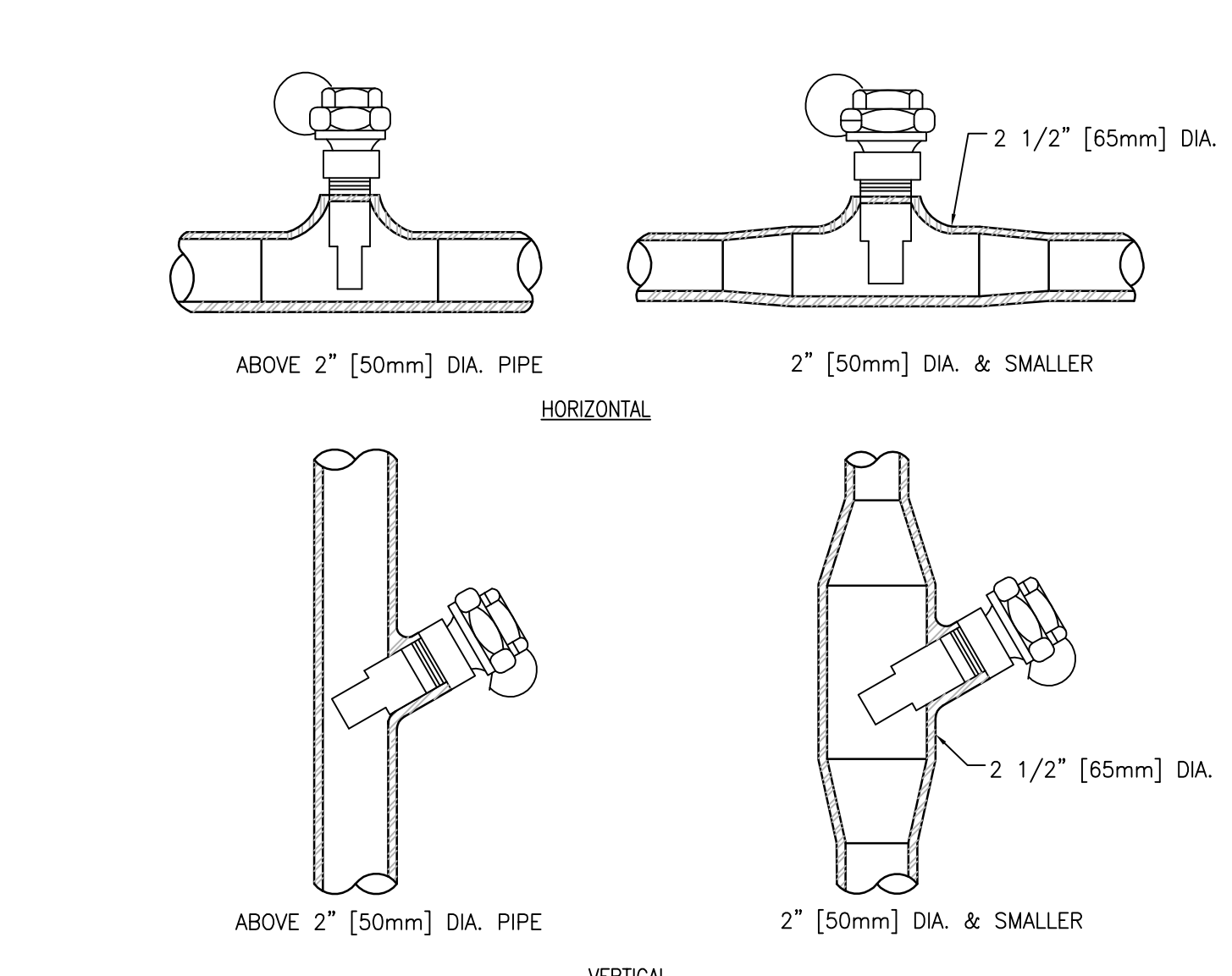
3 TYPICAL PIPE THROUGH ROOF DETAIL
SCALE: NTS



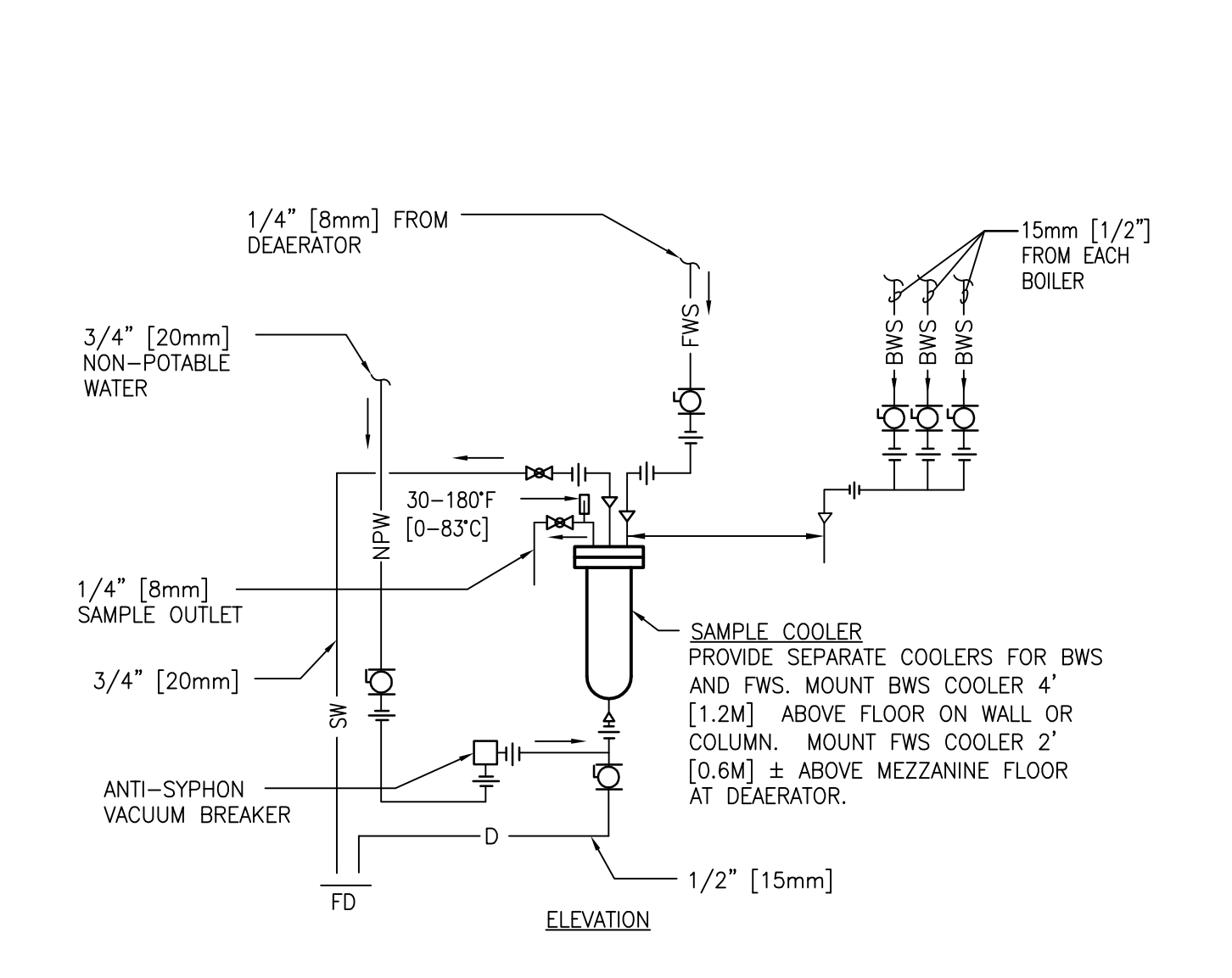
4 TYPICAL GUY WIRE ANCHOR DETAIL
SCALE: NTS



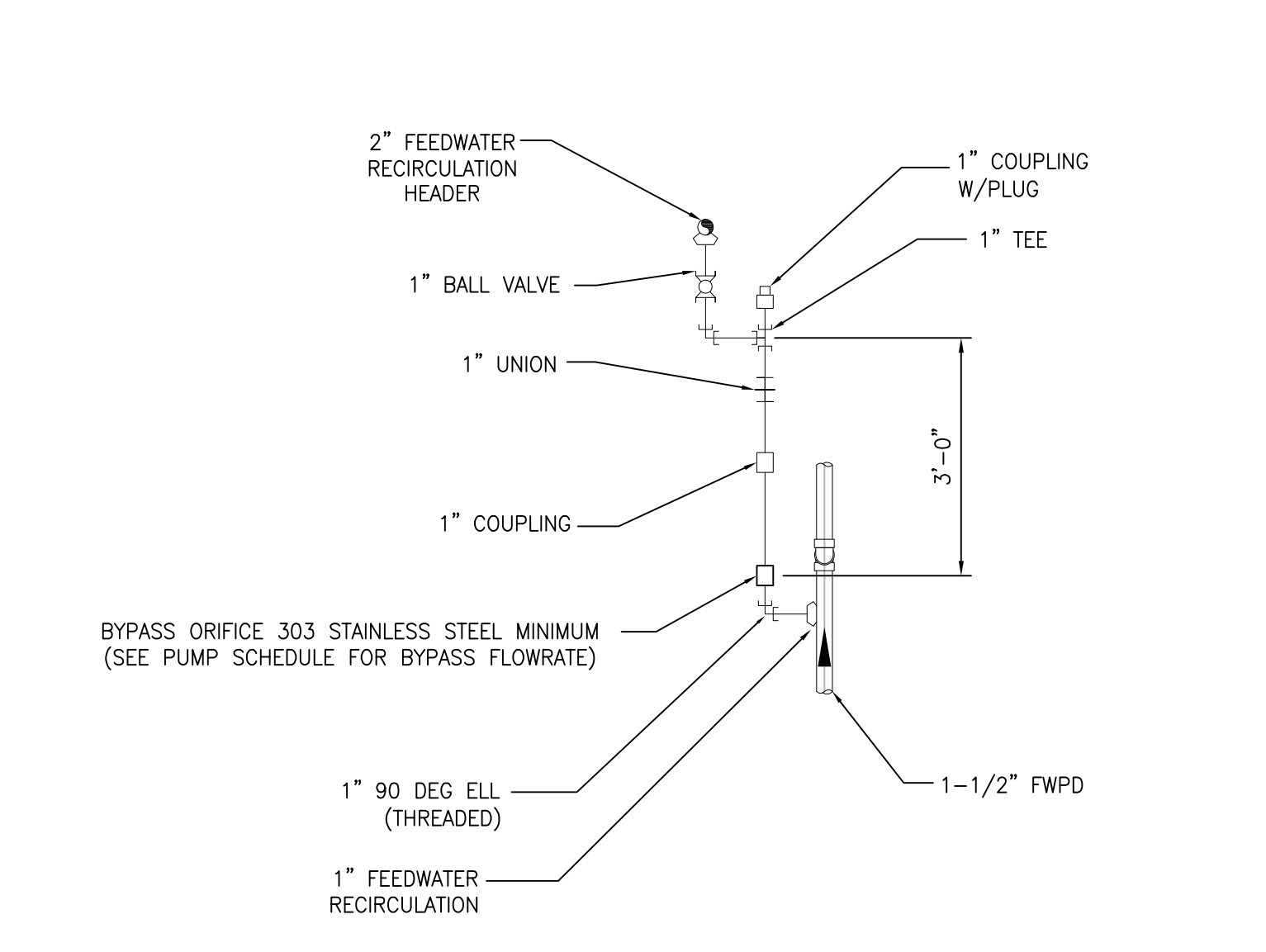
5 HIGH POINT VENT & LOW POINT DRAIN ASSEMBLIES DETAIL
SCALE: NTS



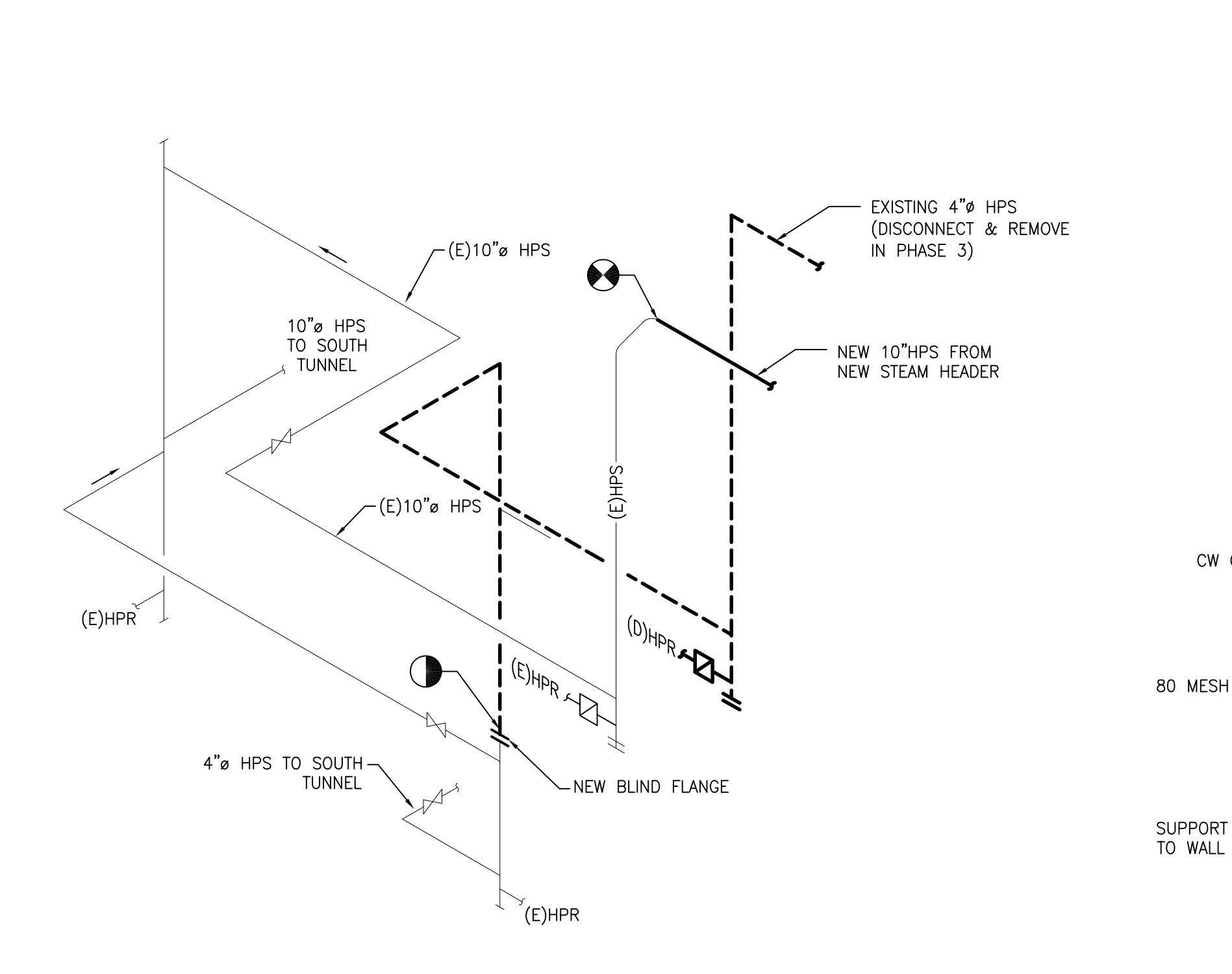
6 INSTALLATION OF THERMAL WELLS DETAIL
SCALE: NTS



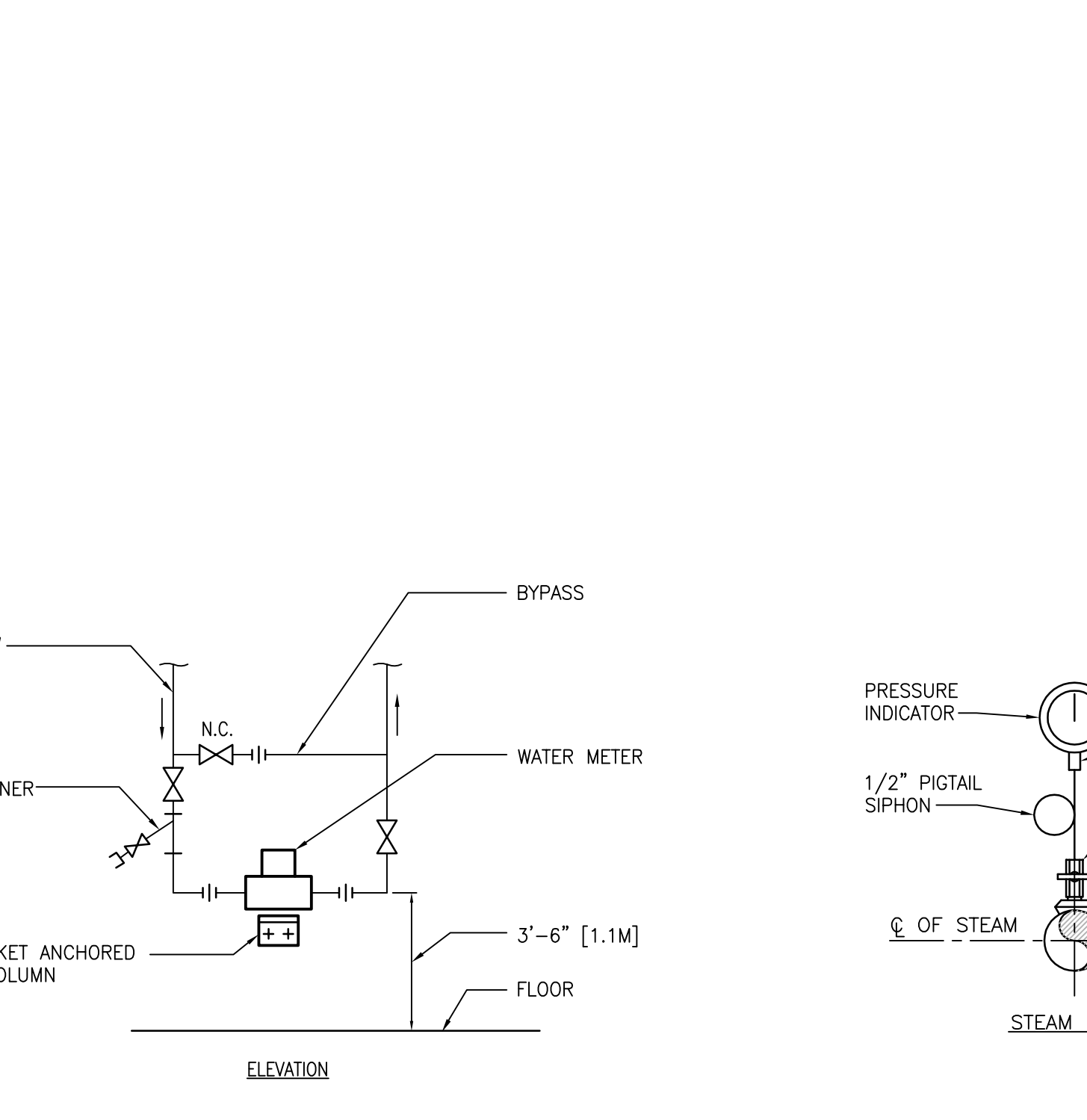
7 WATER SAMPLE COOLER FOR BOILER WATER & FEEDWATER
SCALE: NTS



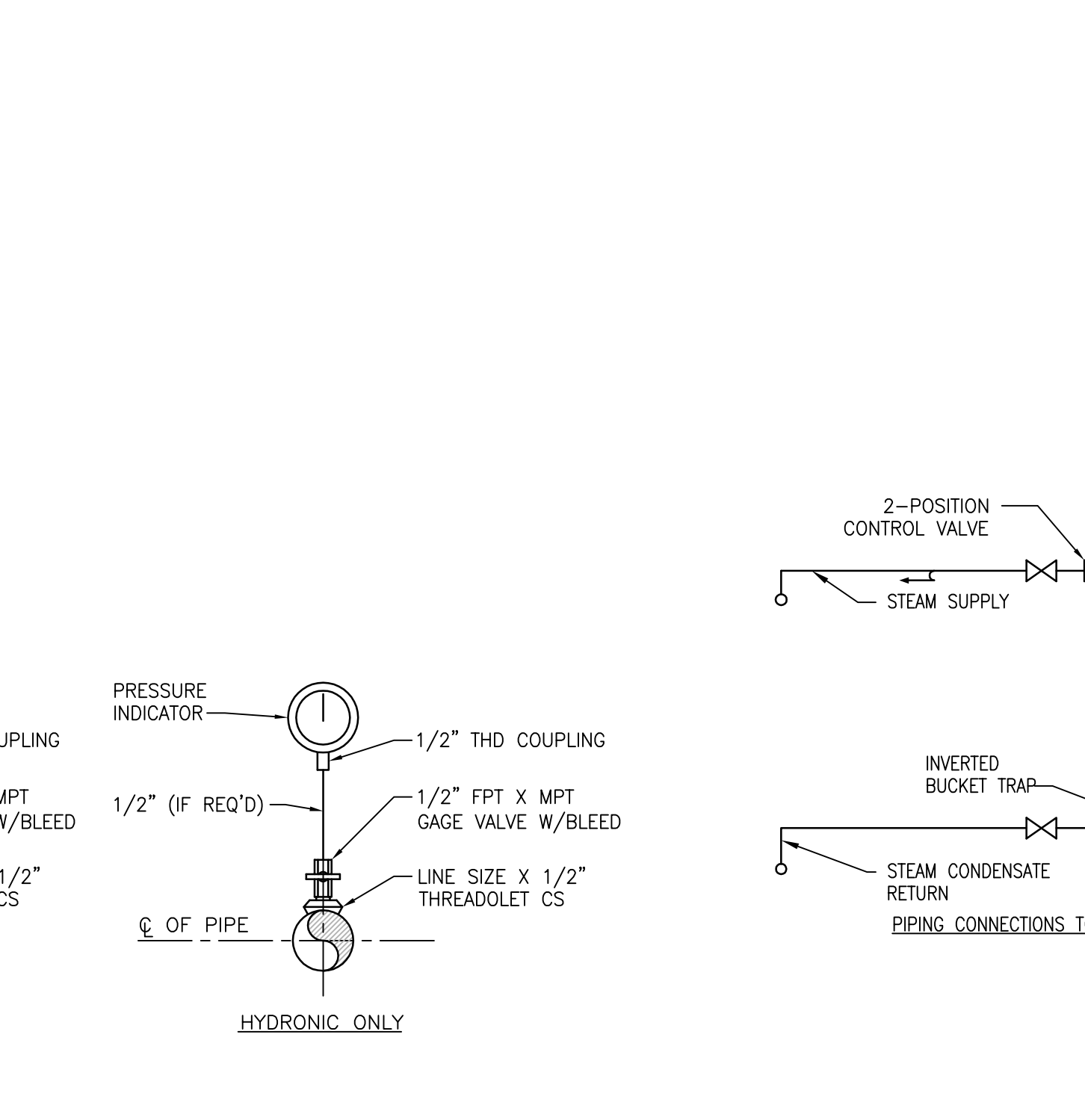
8 ORIFICE PLATE & RECIRCULATION PIPING DETAIL
SCALE: NTS



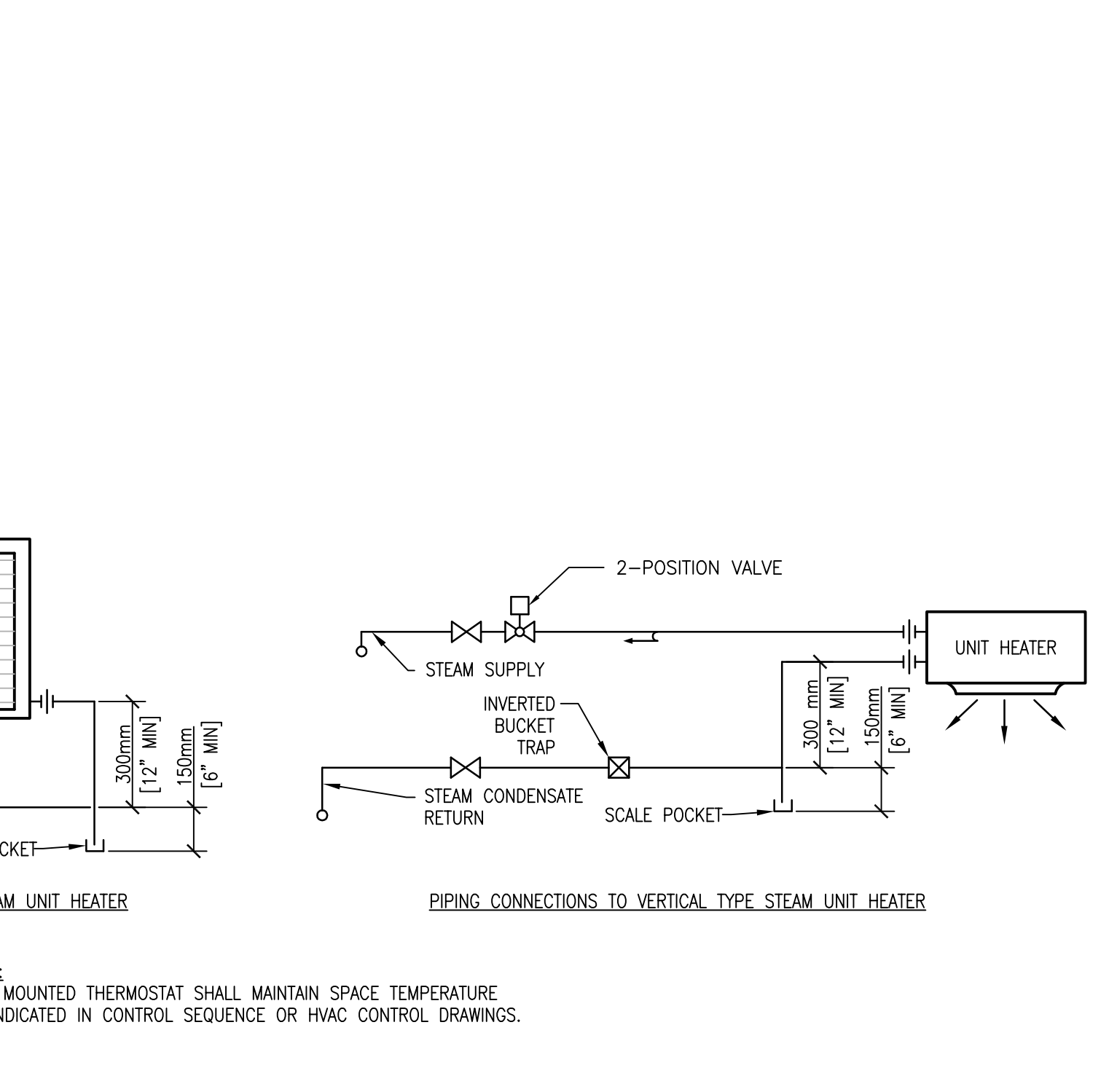
9 PIPING AT SOUTH TUNNEL ENTRANCE
SCALE: NTS



10 WATER METER INSTALLATION
SCALE: NTS

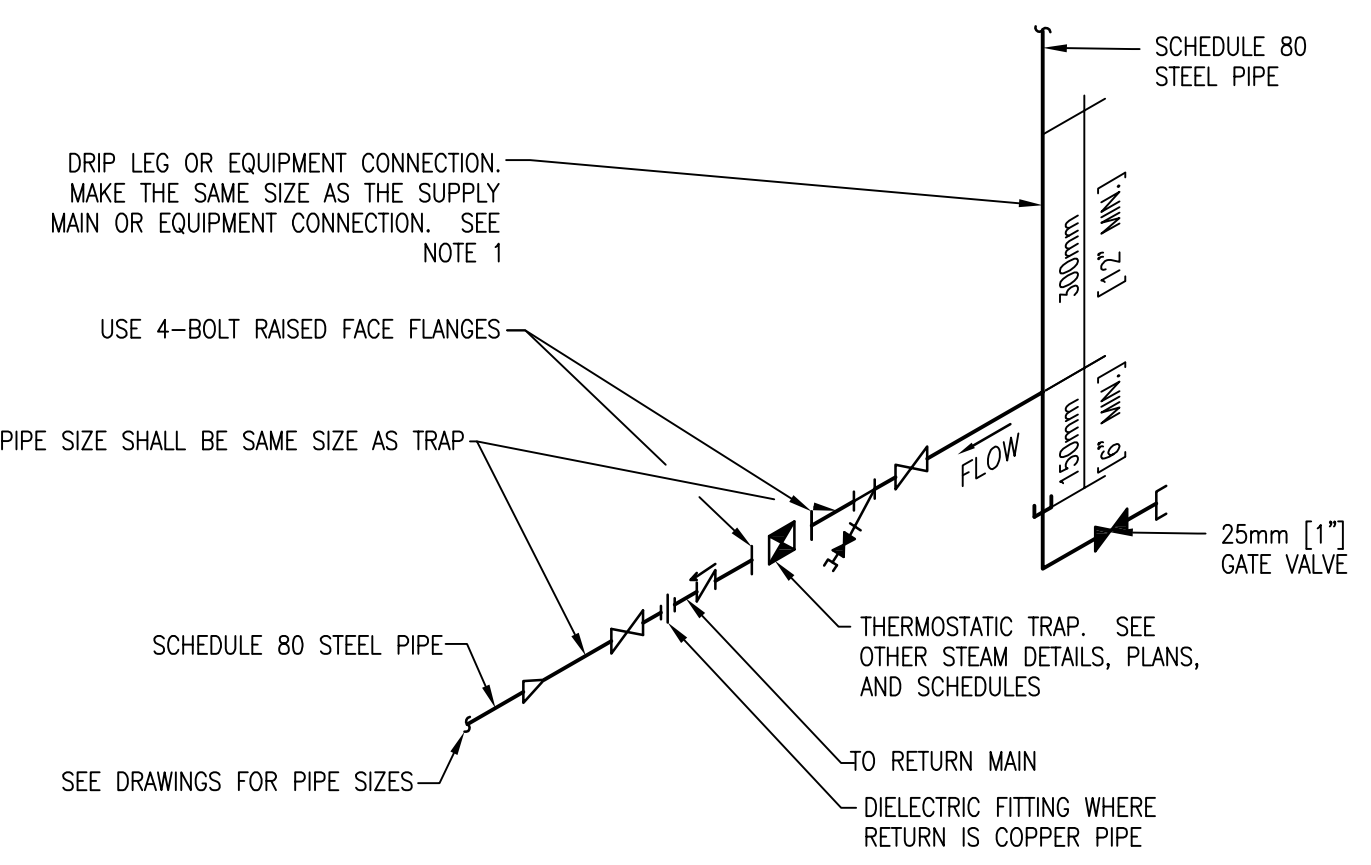


11 PRESSURE GAUGE DETAIL
SCALE: NTS



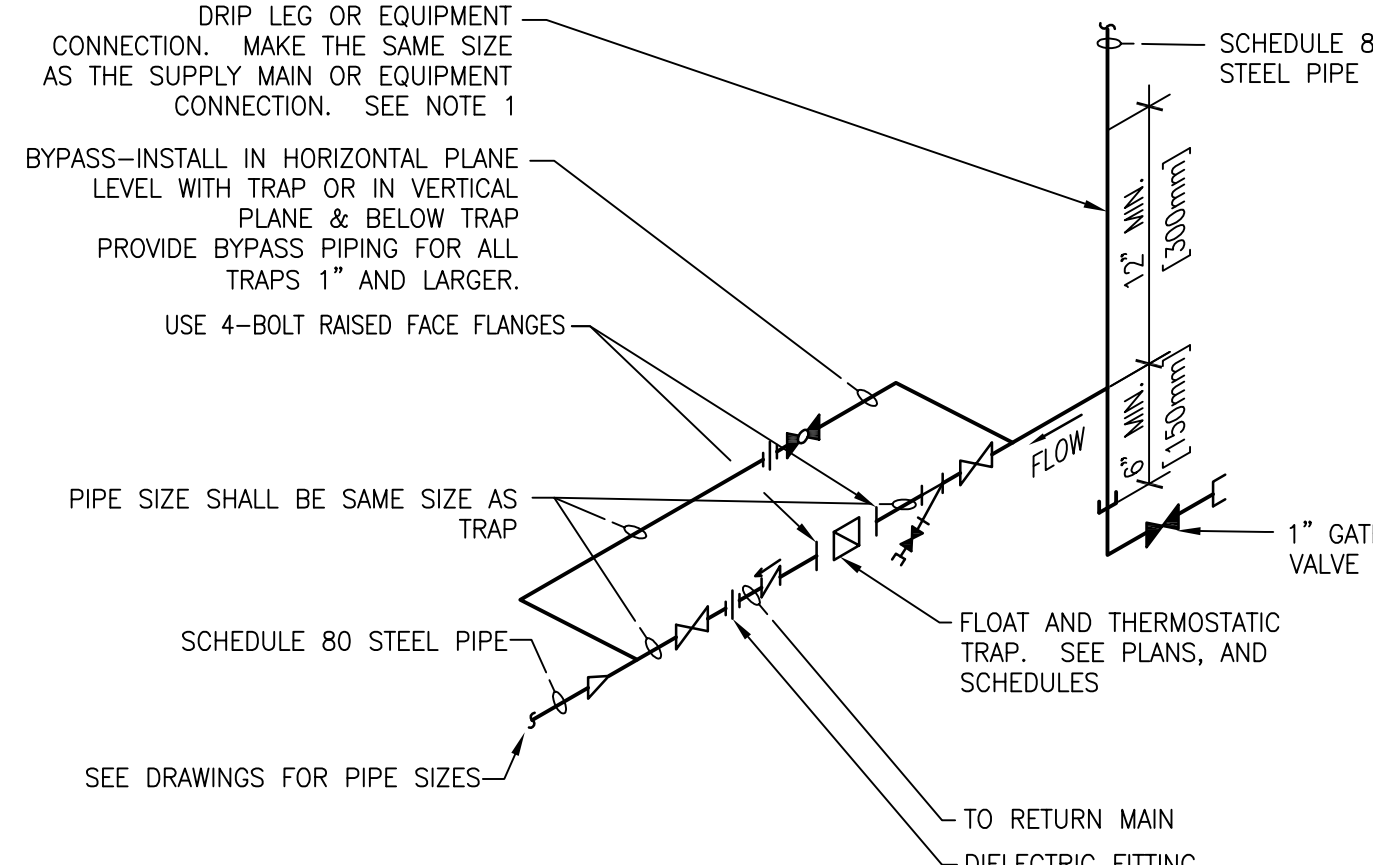
12 UNIT HEATERS (STEAM) PIPING CONNECTIONS
SCALE: NTS

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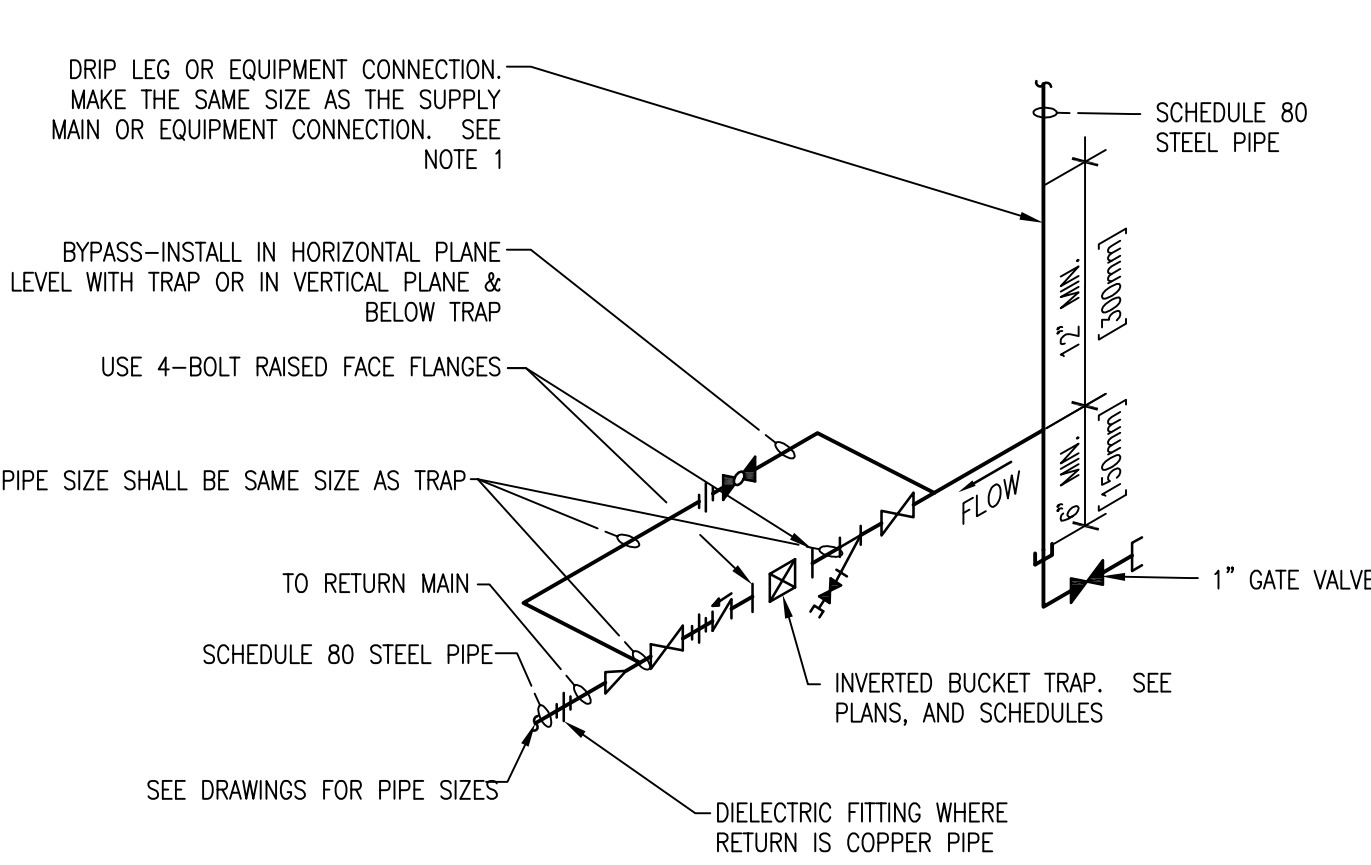
NOTE:
1. ALL DRIP POINTS ON STEAM MAINS SHALL BE PROVIDED WITH A 300mm [12"] MINIMUM HIGH DRIP LEG FROM BOTTOM OF STEAM MAIN TO TRAP INLET. DRIP LEG SHALL HAVE 150mm [6"] SCALE POCKET BELOW TRAP INLET.

1 THERMOSTATIC STEAM TRAP ASSEMBLY
SCALE: NTS



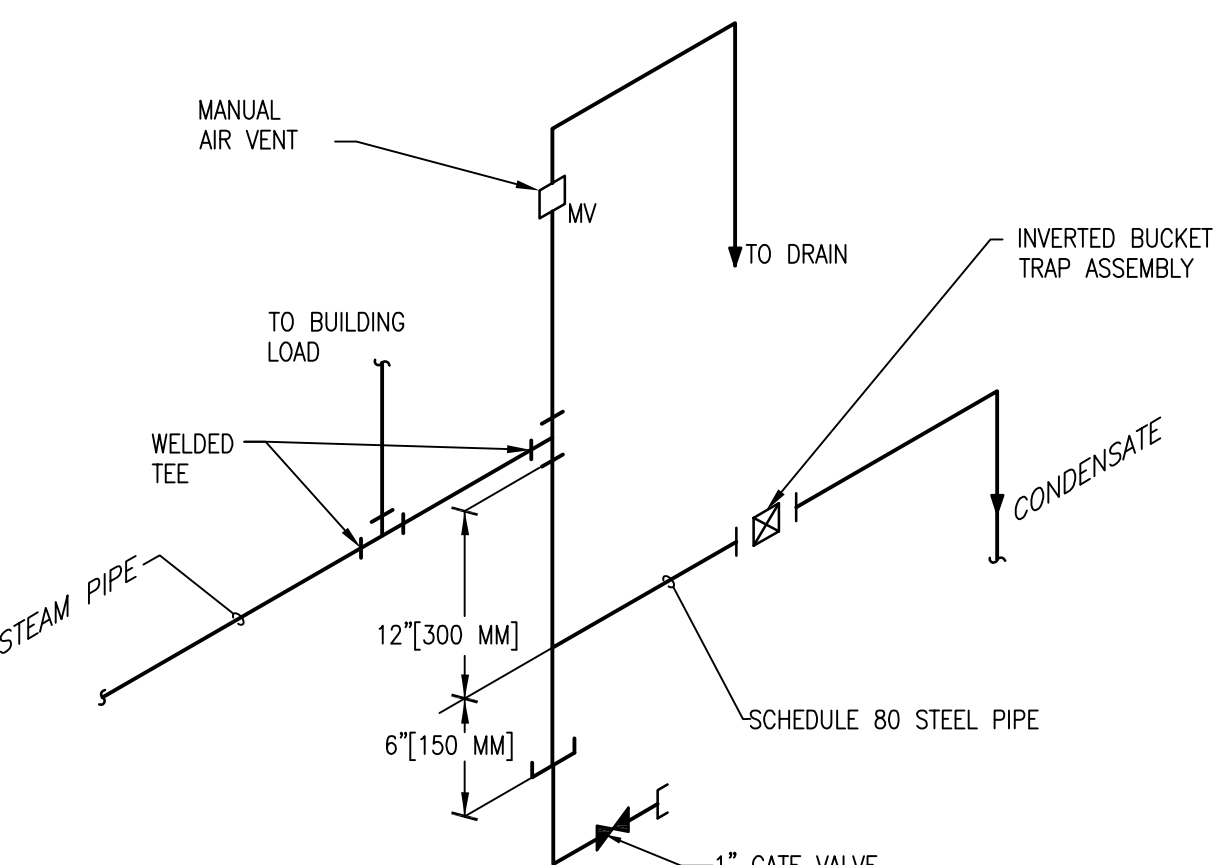
NOTE:
1. ALL DRIP POINTS ON STEAM MAINS SHALL BE PROVIDED WITH A 12" MINIMUM HIGH DRIP LEG FROM BOTTOM OF STEAM MAIN TO TRAP INLET. DRIP LEG SHALL HAVE 6" SCALE POCKET BELOW TRAP INLET.

2 FLOAT & THERMOSTATIC STEAM TRAP ASSEMBLY
SCALE: NTS



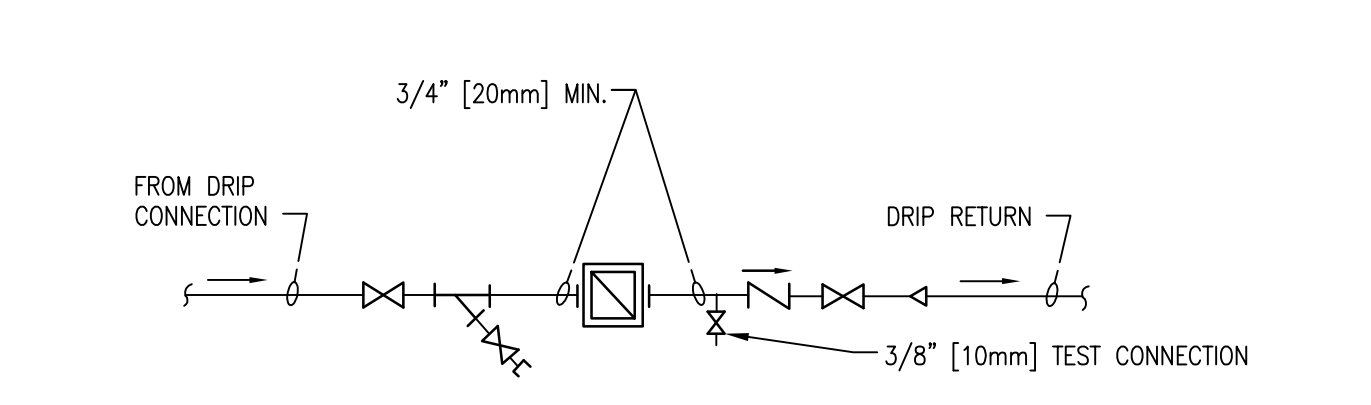
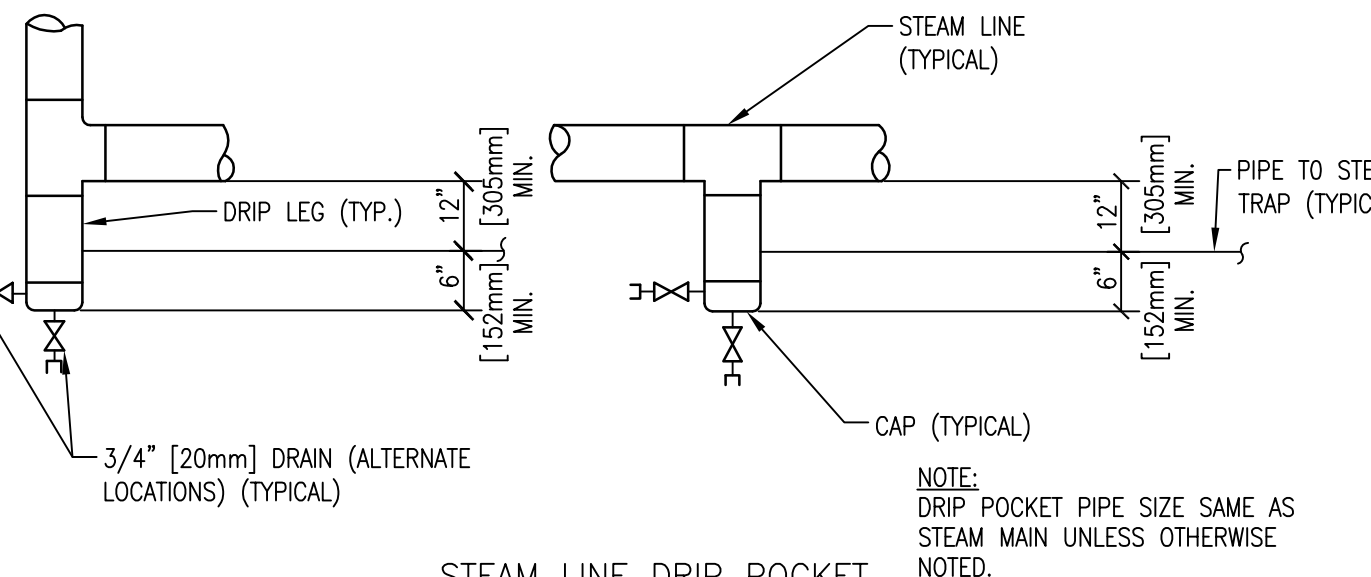
NOTE:
1. ALL DRIP POINTS ON STEAM MAINS SHALL BE PROVIDED WITH A 12" MINIMUM HIGH DRIP LEG FROM BOTTOM OF STEAM MAIN TO TRAP INLET. DRIP LEG SHALL HAVE 6" SCALE POCKET BELOW TRAP INLET.
2. PROVIDE BYPASS PIPING.

3 INVERTED BUCKET STEAM TRAP ASSEMBLY
SCALE: NTS

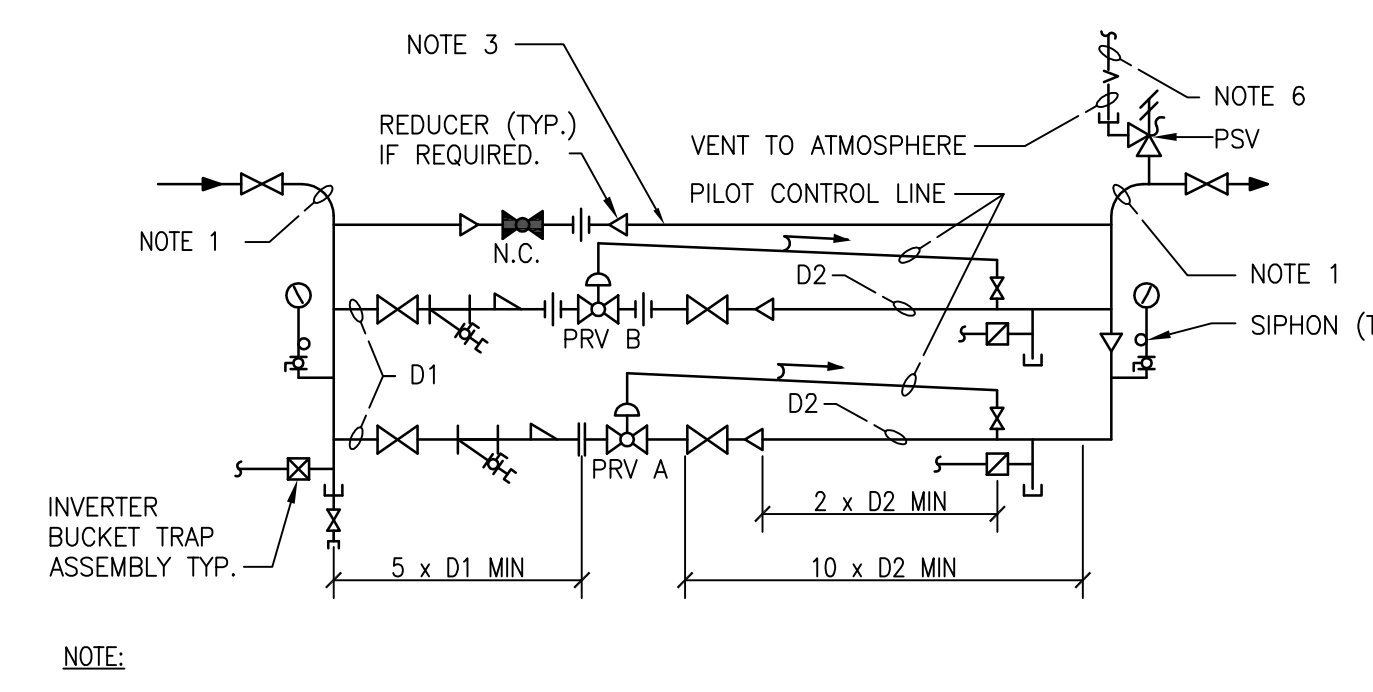


NOTE:
1. REFER TO PLANS AND FLOW DIAGRAMS FOR VENT PIPE SIZES.
2. VENT PIPE SHALL TERMINATE 7' [1828mm] MIN. ABOVE FINISHED ROOF.
3. DISCHARGE OF DRAIN MUST BE DIRECTED AWAY FROM PLATFORMS OR OTHER AREAS WHICH PERSONNEL MAY OCCUPY.
4. DO NOT CONNECT ANY OTHER DRAIN TO THE DRIP PAN ELBOW DRAIN PIPE.

4 END OF STEAM LINE DRIP TRAP DETAIL
SCALE: NTS

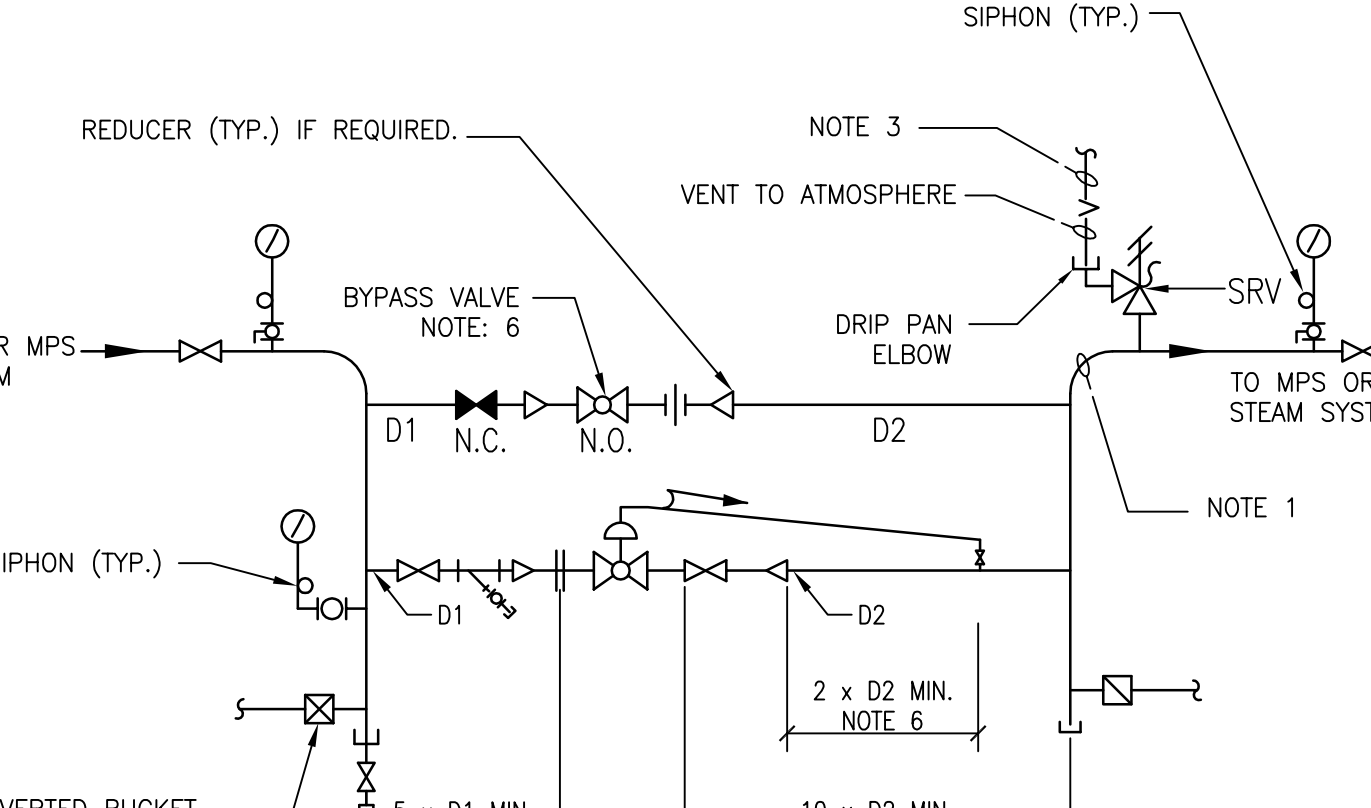


5 STEAM LINE DRIP POCKET STEAM TRAP ASSEMBLY
SCALE: NTS



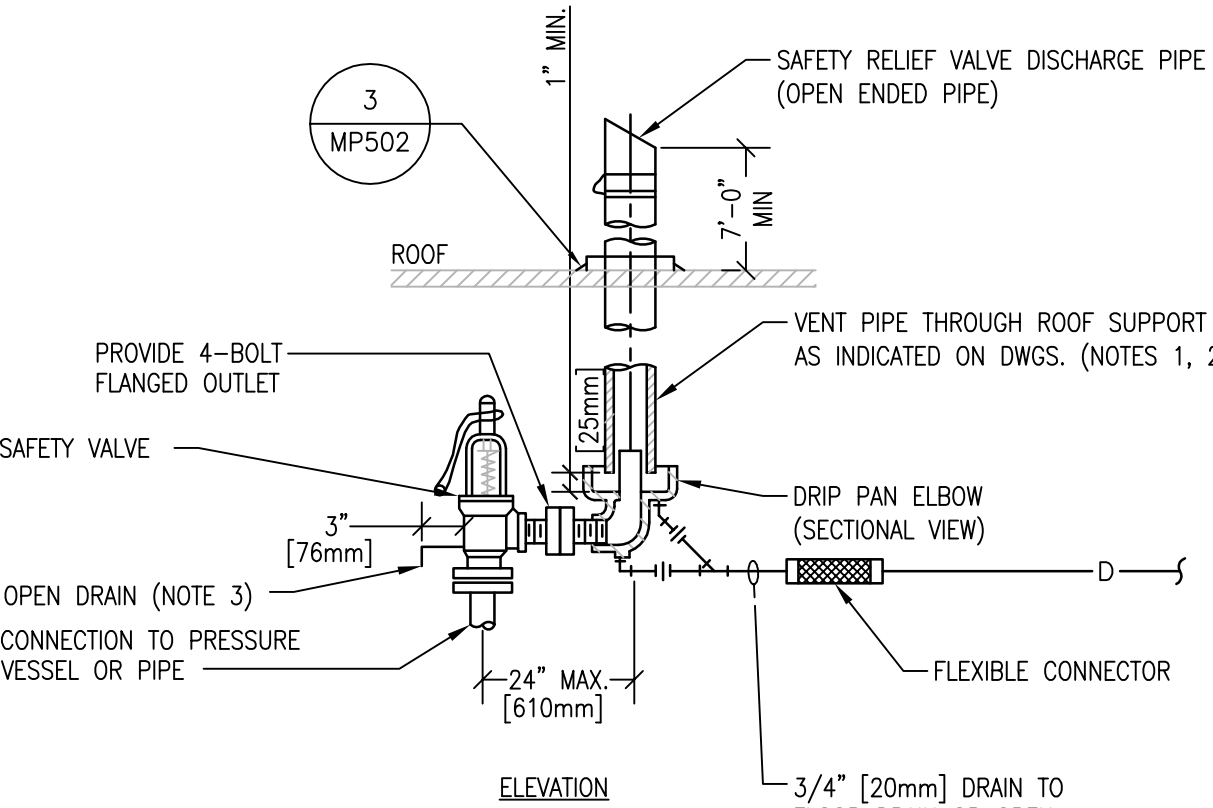
NOTE:
1. SEE FLOOR PLANS FOR PIPE SIZES.
2. SEE EQUIPMENT SCHEDULES FOR VALVE DATA AND PIPE SIZES D1 AND D2. INSTALL VALVES AS RECOMMENDED BY MANUFACTURER.
3. MAKE BYPASS VALVE DISCHARGE PIPE THE SAME SIZE AS D2 FOR THE LARGEST PRV. BYPASS VALVE AND PIPING MUST BE SIZED TO PROVIDE EQUAL OR GREATER STEAM FLOW CAPACITY, AS THE LARGEST PRV INSTALLED FOR THAT REDUCING STATION.
4. PROVIDE UNIONS FOR THE REMOVAL OF VALVE WITH SCREWED CONNECTIONS.
5. SLOPE PILOT CONTROL LINE FROM PRESSURE REDUCING VALVE TO DOWN STREAM STEAM PIPING. MINIMUM SLOPE SHALL BE 25/100', 25mm/300mm [1/12"]
6. STEAM SAFETY RELIEF VALVE IS SIZED FOR THE LARGEST PRV. REFER TO SCHEDULES AND DETAIL 8 ON THIS DRAWING.

6 STEAM PRESSURE REDUCING STATION DOUBLE VALVE (1/3 & 2/3)
SCALE: NTS



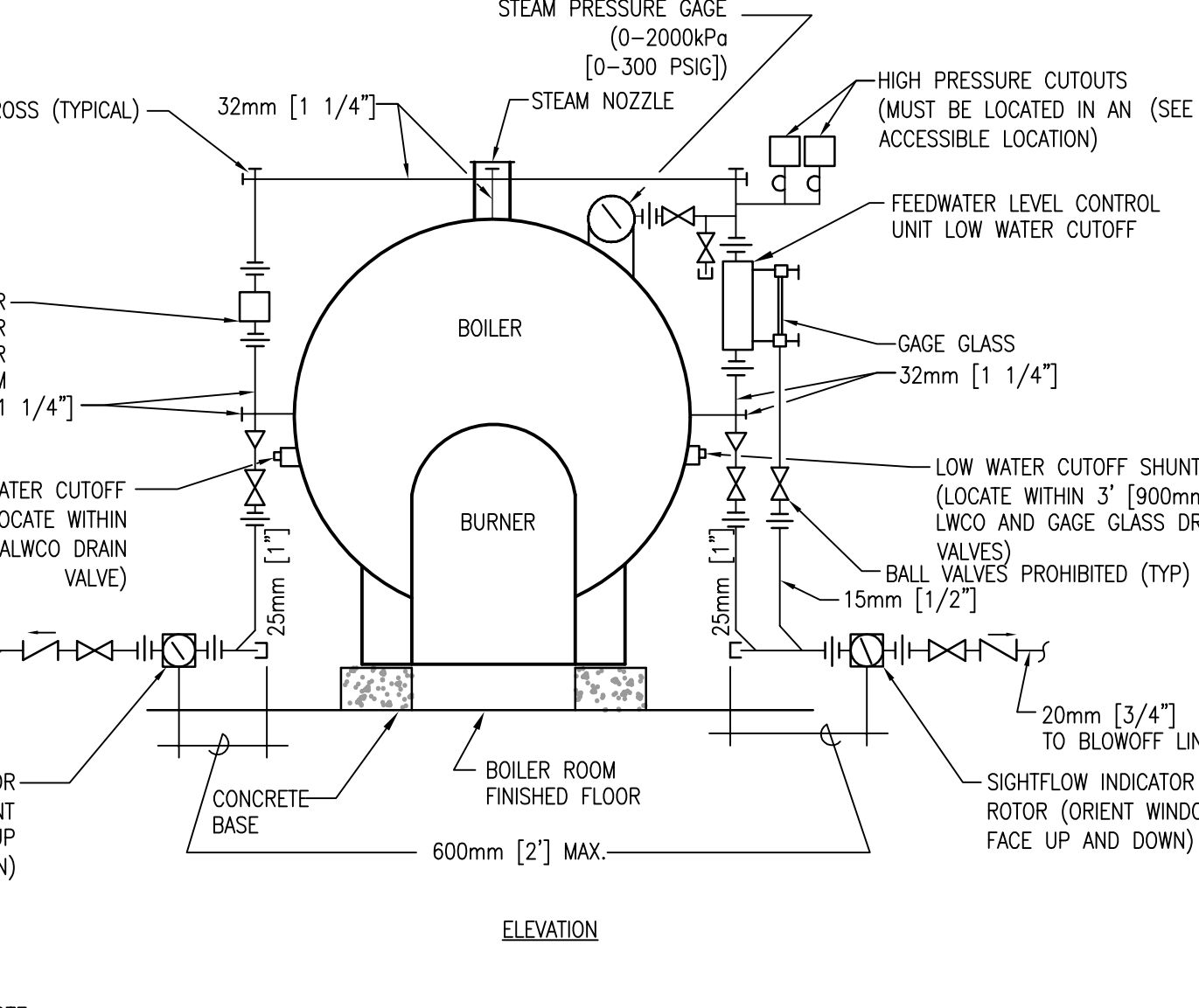
NOTE:
1. SEE FLOOR PLANS FOR PIPE SIZES.
2. SEE EQUIPMENT SCHEDULES FOR VALVE DATA AND PIPE SIZES D1 AND D2. INSTALL VALVES AS RECOMMENDED BY MANUFACTURER.
3. SAFETY RELIEF VALVE IS SIZED FOR THE LARGEST PRV. REFER TO SCHEDULES AND DETAIL 8 ON THIS DRAWING.
4. PROVIDE UNIONS FOR THE REMOVAL OF ALL VALVES WITH SCREWED CONNECTIONS.
5. SLOPE PILOT CONTROL LINE FROM PRESSURE REDUCING VALVE TO DOWN STREAM STEAM PIPING. MINIMUM SLOPE SHALL BE 25/100', 25mm/300mm [1/12"]
6. BYPASS VALVE AND PIPING MUST PROVIDE EQUAL OR GREATER STEAM FLOW CAPACITY AS THE LARGEST PRV.

7 STEAM PRESSURE REDUCING STATION
SCALE: NTS

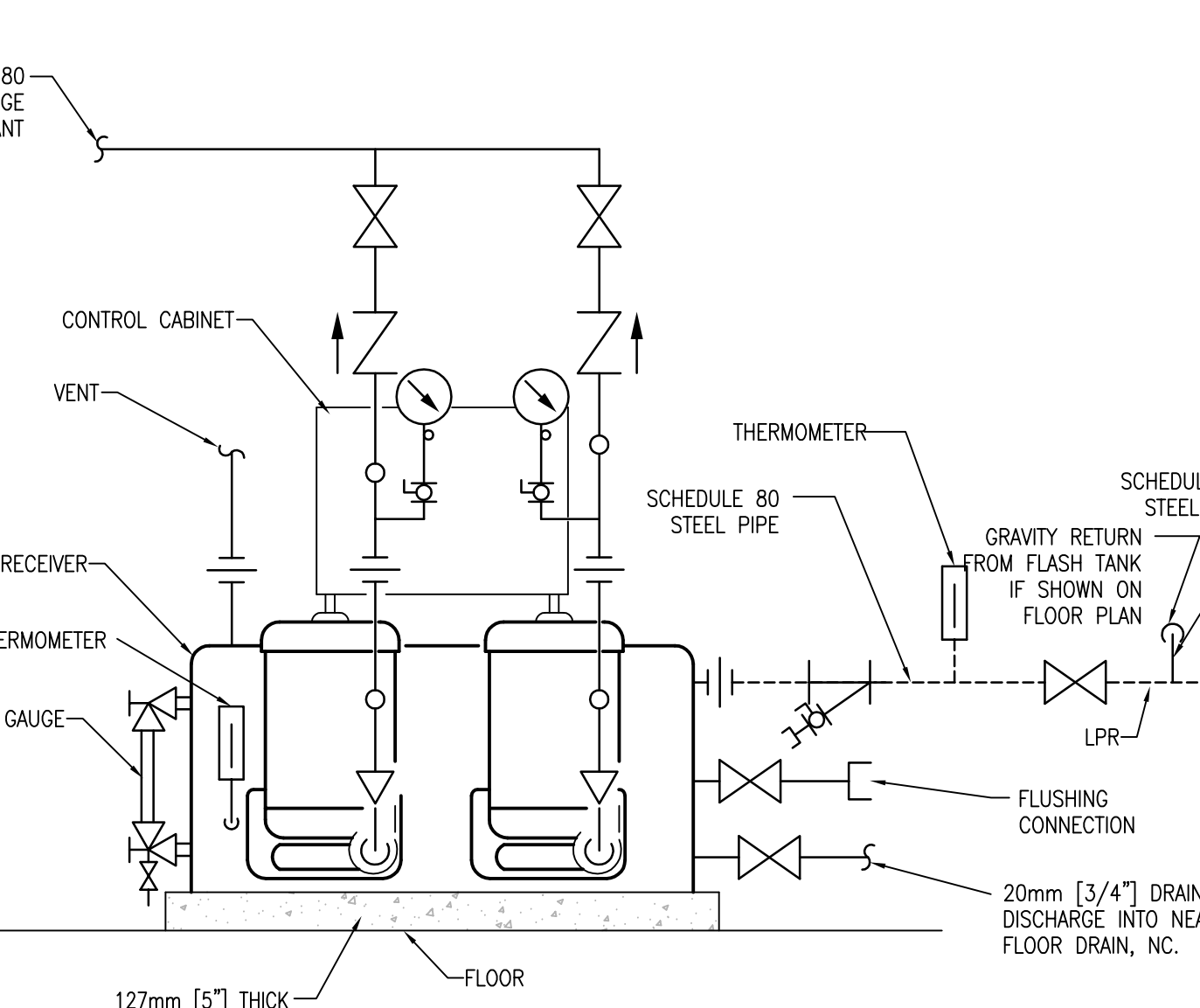


NOTE:
1. EXHAUST GAS 1000 °F OR LESS: THE HIGHER OF 3 FT ABOVE ROOF AND 2 FT HIGHER THAN ANY PORTION OF BUILDING WITHIN A 10 FT RADIUS.
2. EXHAUST GAS GREATER THAN 1000 °F: THE HIGHER OF 10 FT ABOVE ROOF AND 10 FT HIGHER THAN ANY PORTION OF BUILDING WITHIN A 25 FT RADIUS.
3. MUFFLER, SOLENOID VALVE AND ENGINE FLEXIBLE CONNECTION FURNISHED BY DIVISION 26, INSTALLED BY DIVISION 23.
4. PROVIDE HANGERS AND SUPPORTS AS REQUIRED (NOT SHOWN).
5. INSTALL EXPLOSION RELIEF VALVE AT FIRST CHANGE IN DIRECTION AS REQUIRED/RECOMMENDED BY EXHAUST PIPE MANUFACTURER.

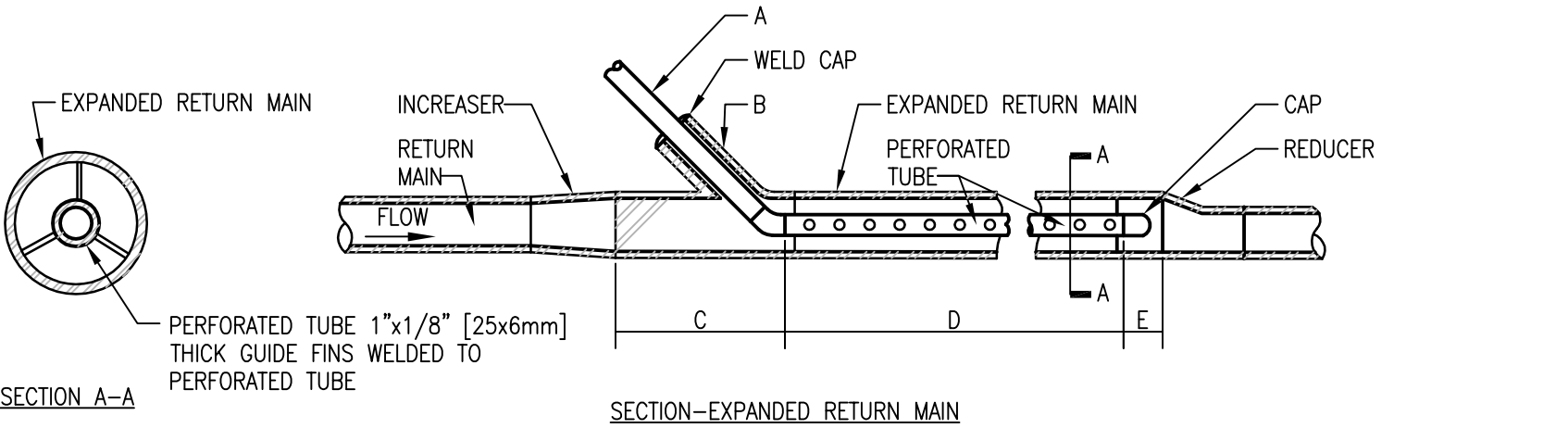
8 STEAM SAFETY VALVE DETAIL
SCALE: NTS



9 FIRE TUBE BOILER AUXILIARY WATER LEVEL SAFETY PIPING
SCALE: NTS



10 CONDENSATE PUMPS - PIPING CONNECTIONS
SCALE: NTS

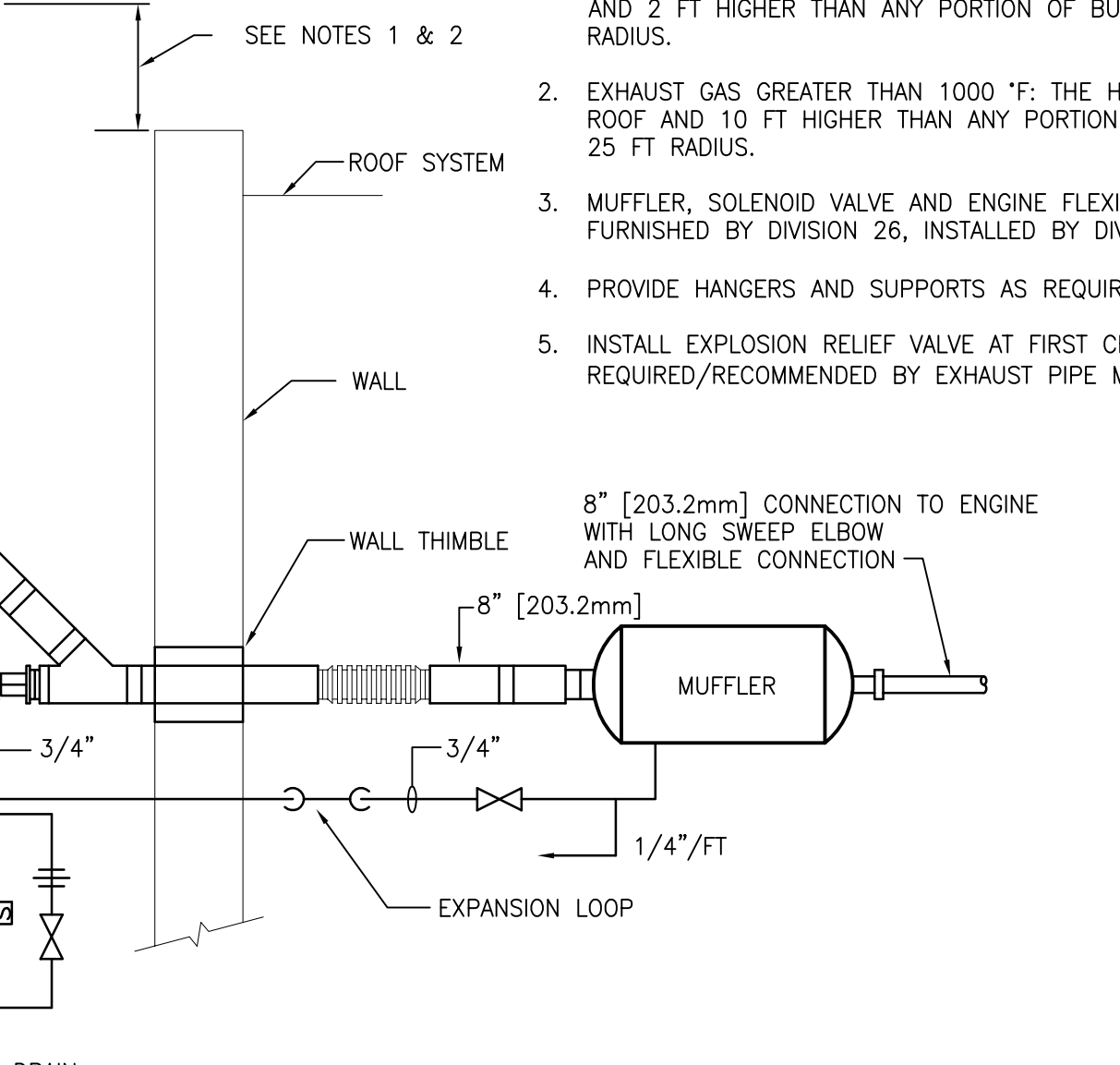


A	SIZE, TRAP DISCHARGE LINE	15mm [1/2"]	20mm [3/4"]
B	SIZE, 45° WELDING NIPPLE	25mm [1"]	32mm [1-1/4"]
C	LENGTH OF EXPANDED MAIN AHEAD OF TRAP DISCHARGE PIPE	175mm [7"]	175mm [7"]
D	LENGTH OF PERFORATED PIPE	415mm [16-1/2"]	415mm [16-1/2"]
E	LENGTH OF EXPANDED MAIN FOLLOWING PERFORATED PIPE	50mm [2"]	50mm [2"]

RETURN MAIN SIZE	UP TO 40mm [1-1/2"]	50mm [2"]	75mm [3"] & OVER
EXPANDED RETURN MAIN SIZE	65mm [2-1/2"]	SAME SIZE	SAME SIZE

NOTE:
1. 15mm [1/2"] PERFORATED TUBE SHALL HAVE 40 - 16mm [1/8"] DIAMETER HOLES SPACED 40mm [1-1/2"] O.C. IN 4 ROWS.
2. 20mm [3/4"] PERFORATED TUBE SHALL HAVE 78 - 6mm [1/8"] DIAMETER HOLES SPACED 40mm [1-1/2"] O.C. IN 6 ROWS.
3. HOLES IN TUBE SHALL BE SPACED EQUALLY AROUND PERIMETER.

11 HIGH PRESSURE STEAM TRAP DISCHARGE INTO PUMPED CONDENSATE RETURN LINE
SCALE: NTS



12 EMERGENCY GENERATOR ENGINE EXHAUST THROUGH ROOF PREFABRICATED DOUBLE WALL EXHAUST SYSTEM
SCALE: NTS

PRINTS OF THIS DRAWING SHALL NOT BE USED FOR ANY PURPOSE WHATSOEVER WITHOUT THE SEAL AND SIGNATURE OF THE PROFESSIONAL ENGINEER.

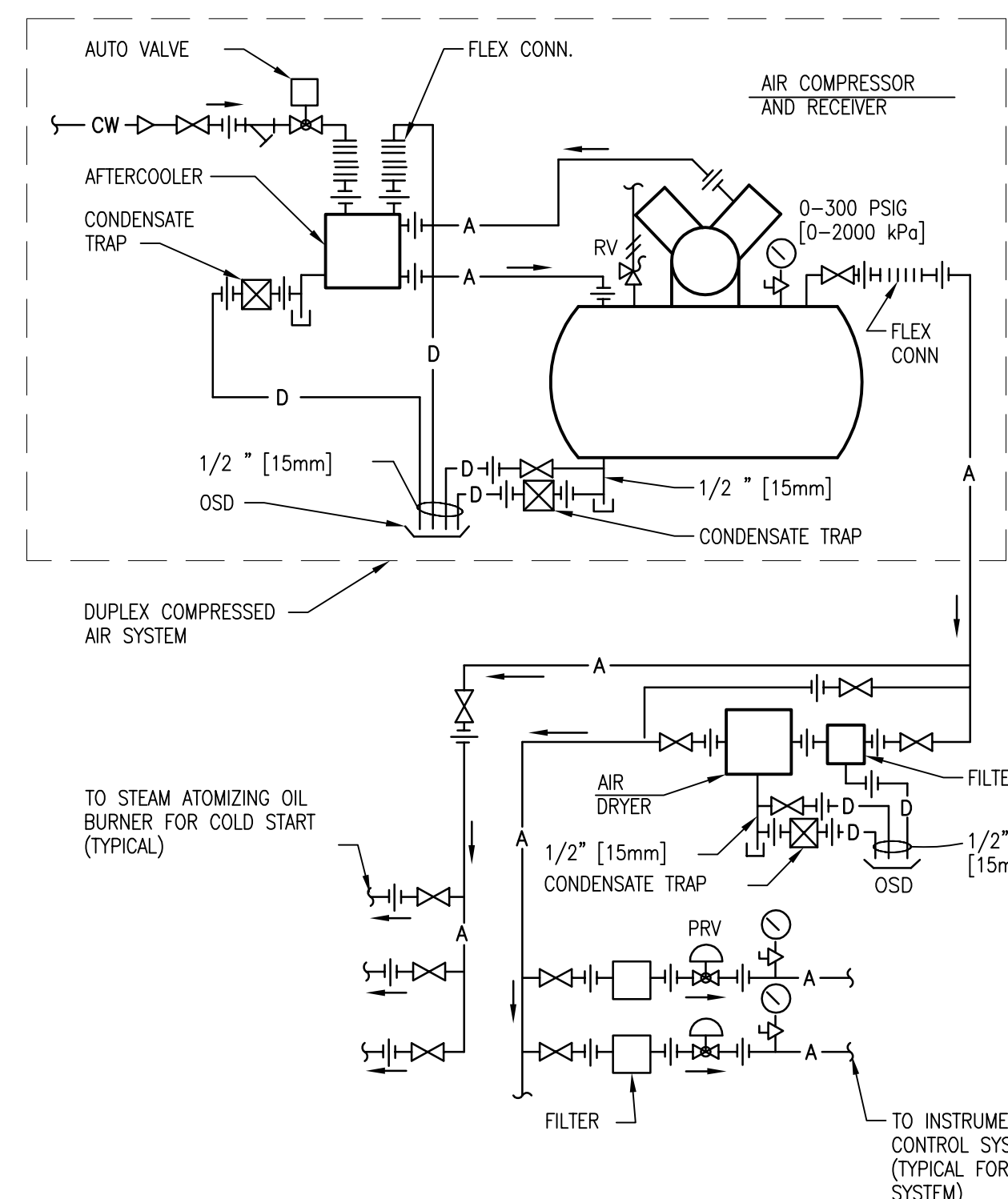
CONSULTANTS		
HAZARDOUS MATERIALS MABBETT & ASSOCIATES, INC. 105 CENTRAL STREET, STONEHAM, MA 02180 PHONE: (781)275-6050	FIRE SUPPRESSION KOFFEL ASSOCIATES 8815 CENTRE PARK DRIVE, SUITE 200, COLUMBIA, MD 21045 PHONE: (410)759-2246	ELECTRONIC SECURITY MAGNA ENGINEERS 861 CORPORATE DRIVE, SUITE 210, LEWINGTON, KY 40503 PHONE: (859)508-2990
CIVIL/STRUCTURAL PROFESSIONAL ENGINEERING CONSULTANTS, P.A. 303 SOUTH TOPEKA, WICHITA, KS 67202 PHONE: (316)262-2891	PHYSICAL SECURITY FORCE PROTECT 3210 GULF BLVD. UNIT 304, BELLEAIR BEACH, FL 33786 PHONE: (813)367-6100	ARCHITECTURAL OCULUS INC. 1 SOUTH MEMORIAL DRIVE, SUITE 1500, SAINT LOUIS, MO 63102 PHONE: (314)367-6100

ENGINEER OF RECORD		
Miller-Remick LLC M.E.P. & Structural Engineering A Service Disabled Veteran Owned Small Business 1010 KINGS HIGHWAY SOUTH CHERRY HILL, NEW JERSEY 08034 PHONE: (856)429-4000 FAX: (856)429-9028 MR PROJECT NO: 0499-0121		
MILLER-REMICK LLC PROFESSIONAL ENGINEER ANTHONY D. PACIARO LICENSED PROFESSIONAL ENGINEER 26413 KANSAS 9.3.2021		
Office of Construction and Facilities Management U.S. Department of Veterans Affairs		

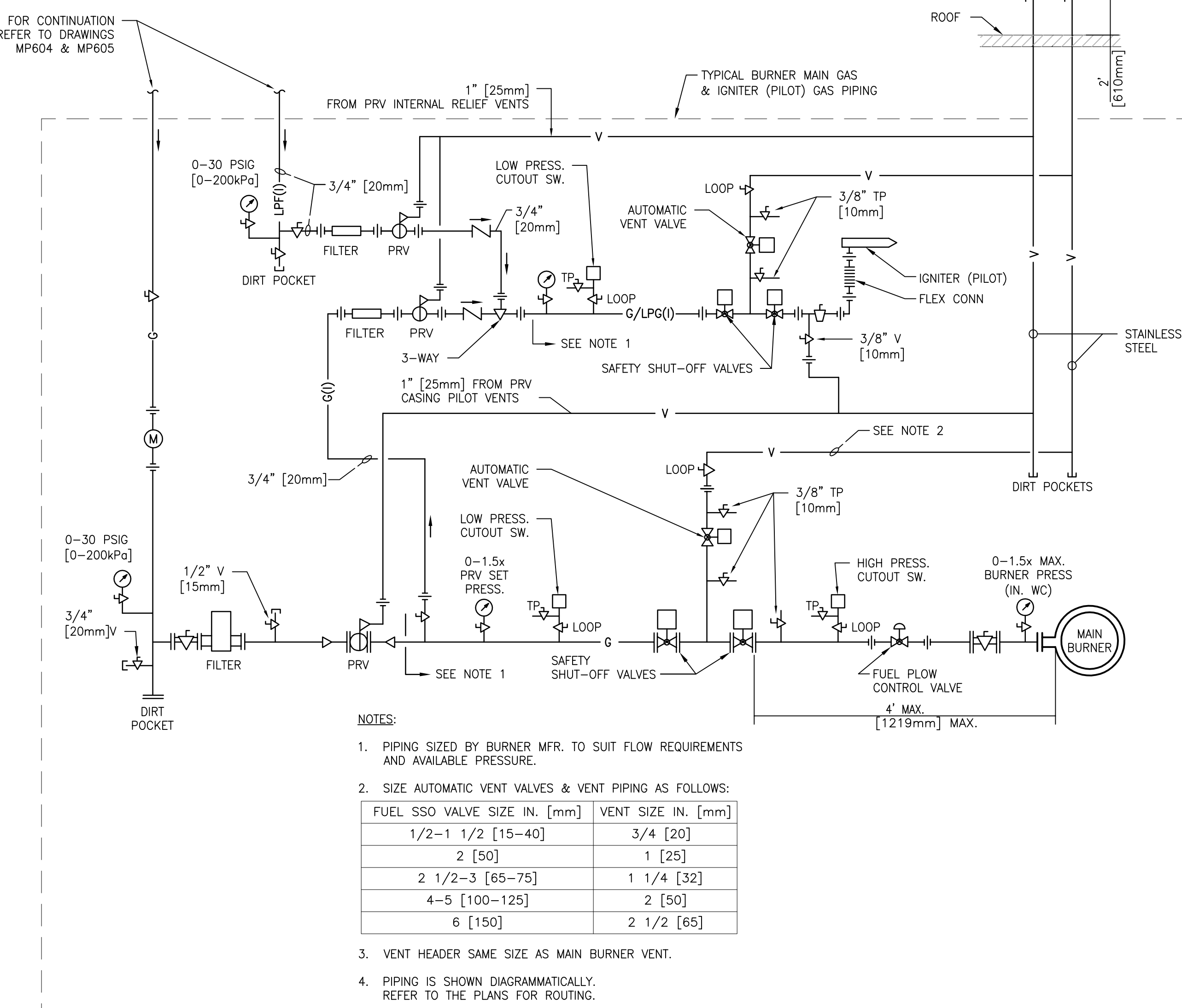
Drawing Title MECHANICAL DETAILS	Phase 100% BID SET	Project Title INSTALL NEW BOILERS IN BUILDING 13	Project Number 589A7-18-302
Approved: Project Director	FULLY SPRINKLERED	Location ROBERT J. DOLE VA MEDICAL CENTER WICHITA, KANSAS	Building Number 13
		Issue Date 2021-09-03	Checked MH
		Drawn GDS	Drawing Number M-503

GENERAL SHEET NOTES:

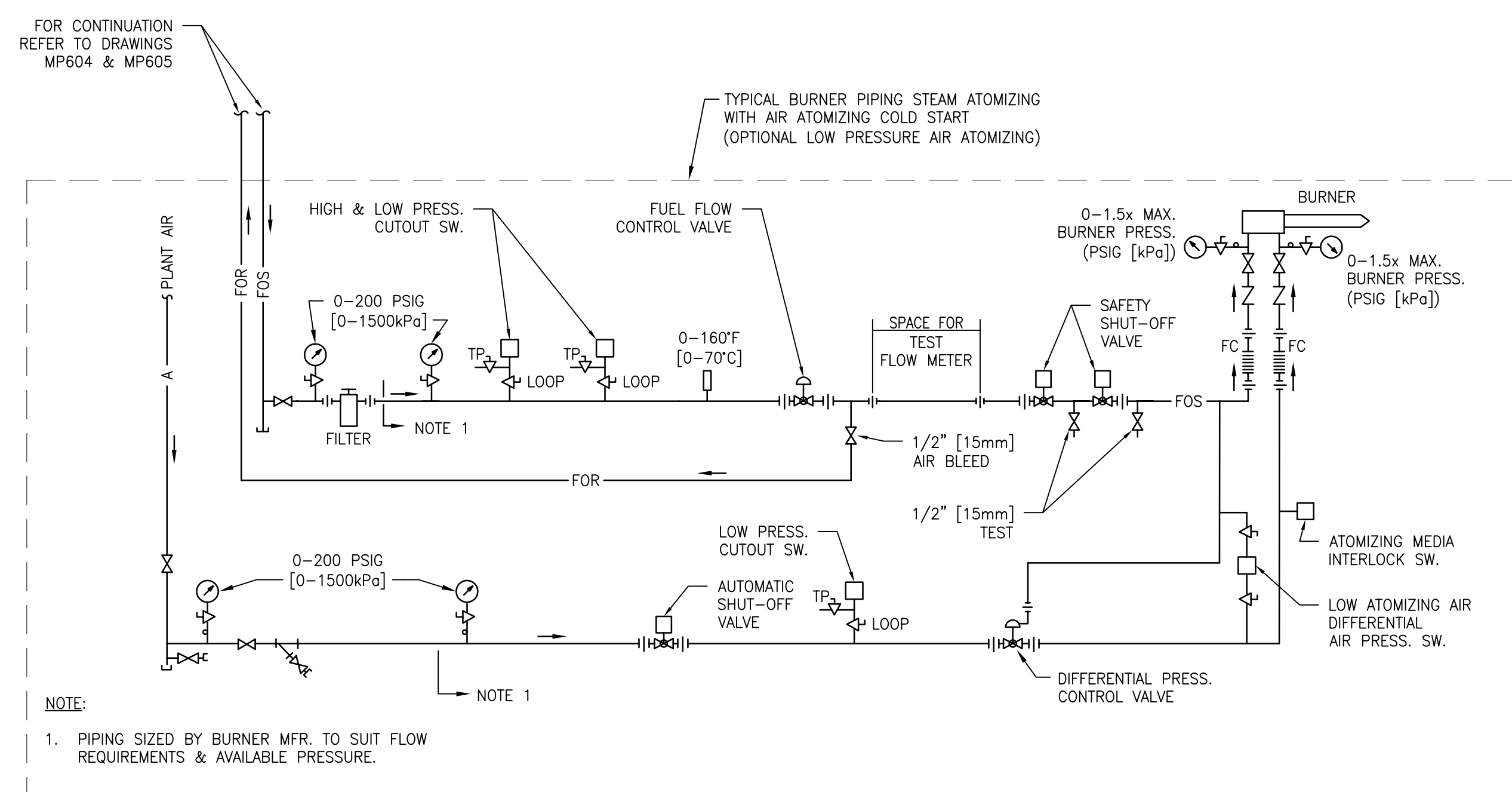
- REFER TO DRAWING M-001 FOR MECHANICAL ABBREVIATIONS, NOTES & SYMBOLS.
- REFERENCE ALL OTHER DRAWINGS IN THIS PACKAGE FOR COORDINATION, AND SPECIFICALLY REFER TO THE FOLLOWING FOR CONTINUATION, AS NEEDED:
 - MP601 STEAM GENERATION SYSTEM FLOW DIAGRAM - BOILERS
 - MP602 STEAM GENERATION SYSTEM FLOW DIAGRAM - DEAERATOR
 - MP603 STEAM GENERATION NATURAL GAS AND No. 2 FUEL OIL FLOW DIAGRAM



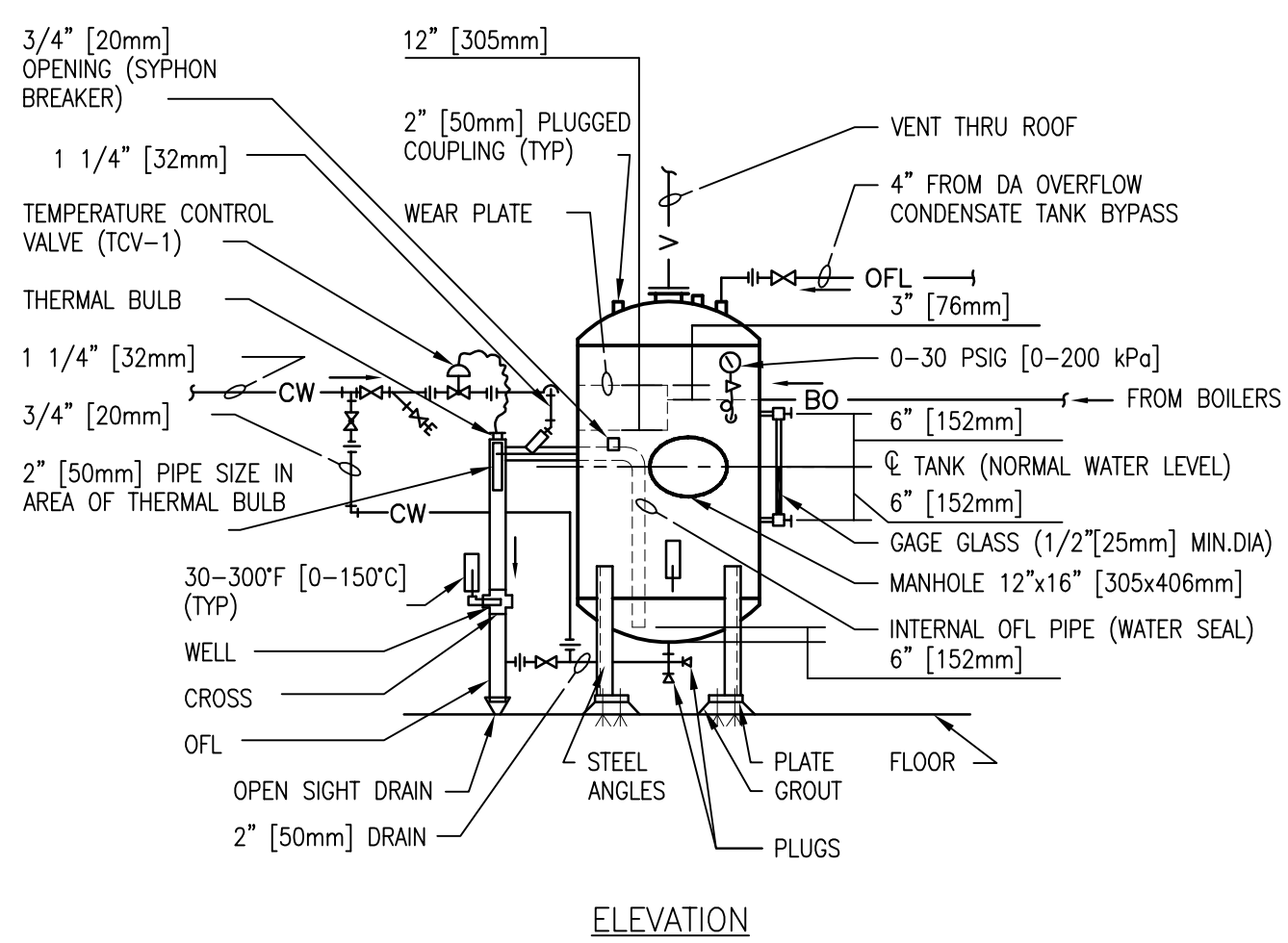
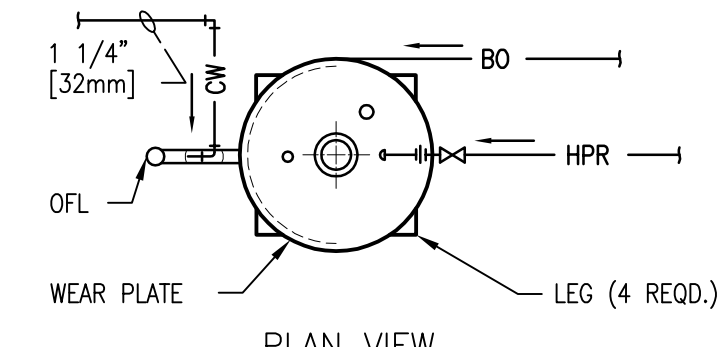
1 DUPLEX COMPRESSED AIR SYSTEM - STANDARD PIPING DIAGRAM
SCALE: NTS



2 NATURAL GAS AND LIQUIFIED PETROLEUM GAS - BURNER AND IGNITER FUEL STANDARD PIPING DIAGRAM
SCALE: NTS



3 No.2 BURNER FUEL OIL SYSTEMS - STANDARD PIPING DIAGRAM
SCALE: NTS



4 BOILER BLOWOFF TANK
SCALE: NTS

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ARCHITECTURAL OCULUS INC. 1 SOUTH MEMORIAL DRIVE, SUITE 1500, SAINT LOUIS, MO 63102 PHONE: (314)367-6100		

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MR PROJECT NO: 0499-0121

MILLER-REMICK LLC
PROFESSIONAL ENGINEER
ANTHONY D. PAQURO
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KANSAS
26413
9.3.2021

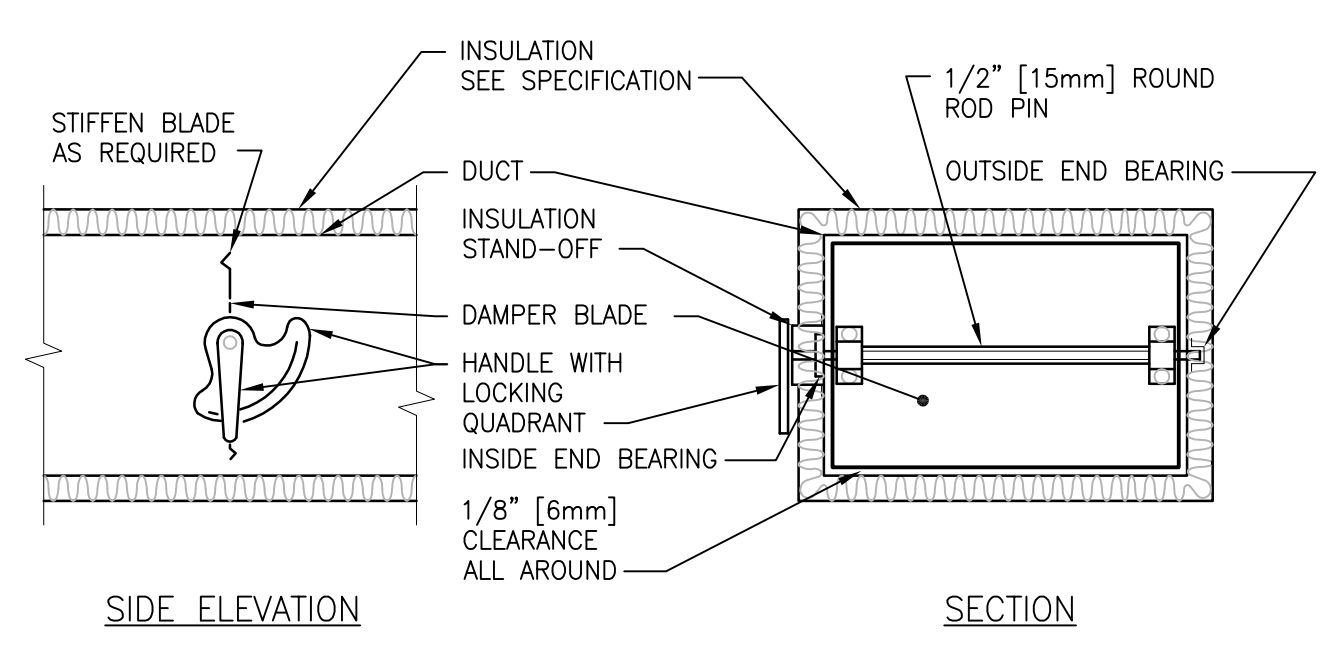
Office of Construction and Facilities Management
U.S. Department of Veterans Affairs

Drawing Title
MECHANICAL DETAILS
Approved: Project Director

Phase
100% BID SET
FULLY SPRINKLERED

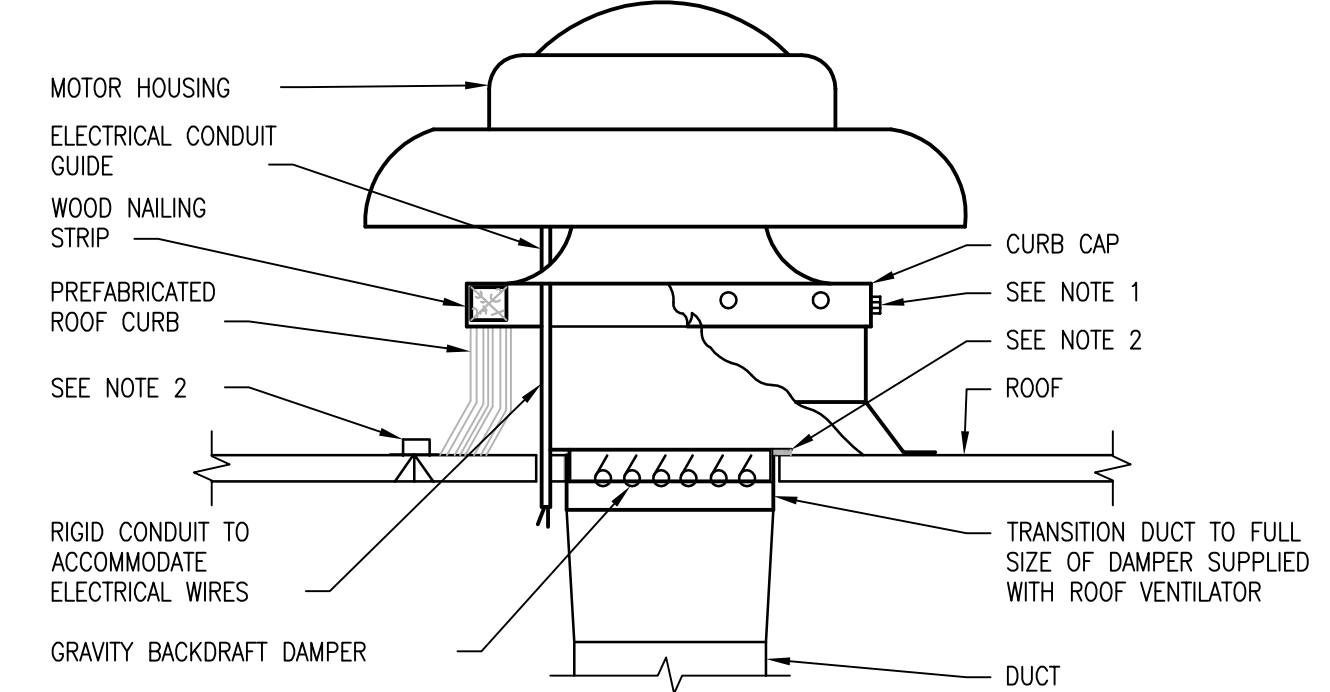
Project Title
INSTALL NEW BOILERS IN BUILDING 13
Location
ROBERT J. DOLE VA MEDICAL CENTER
WICHITA, KANSAS
Issue Date
2021-09-03
Checked
MH
Drawn
GDS

Project Number
589A7-18-302
Building Number
13
Drawing Number
M-504



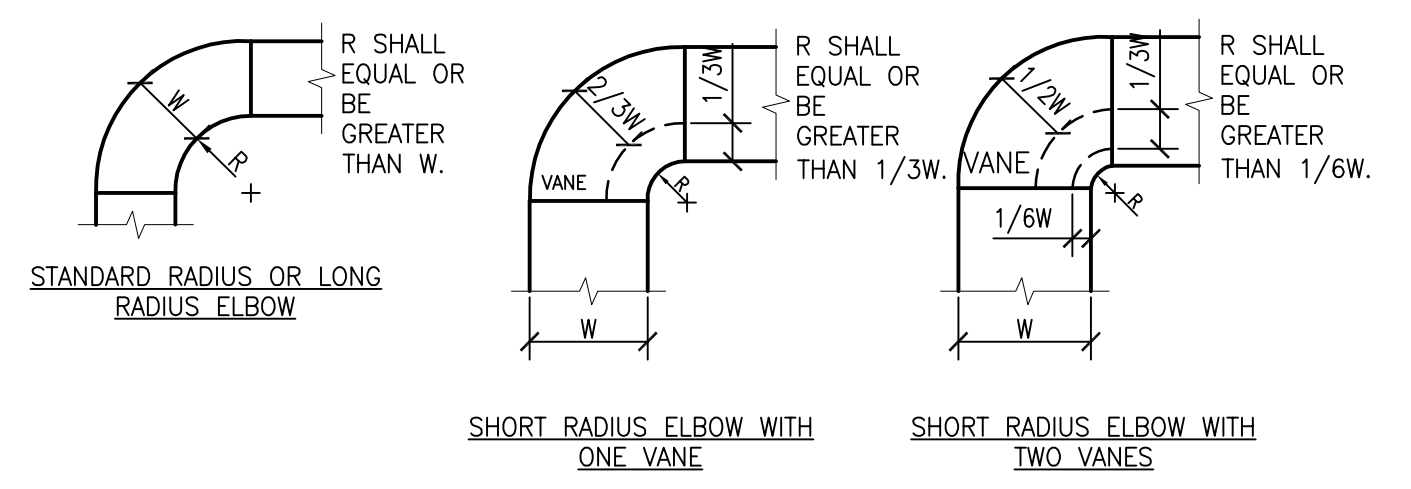
- NOTES:
- DELETE INSULATION STAND-OFF ON DUCTWORK WITHOUT EXTERIOR INSULATION.
 - DETAIL SHOWS SINGLE BLADE DAMPER. DAMPER INSTALLATION SHALL BE SIMILAR FOR MULTI-BLADE DAMPERS & ROUND DAMPERS.

1 VOLUME DAMPER DETAIL
SCALE: NTS



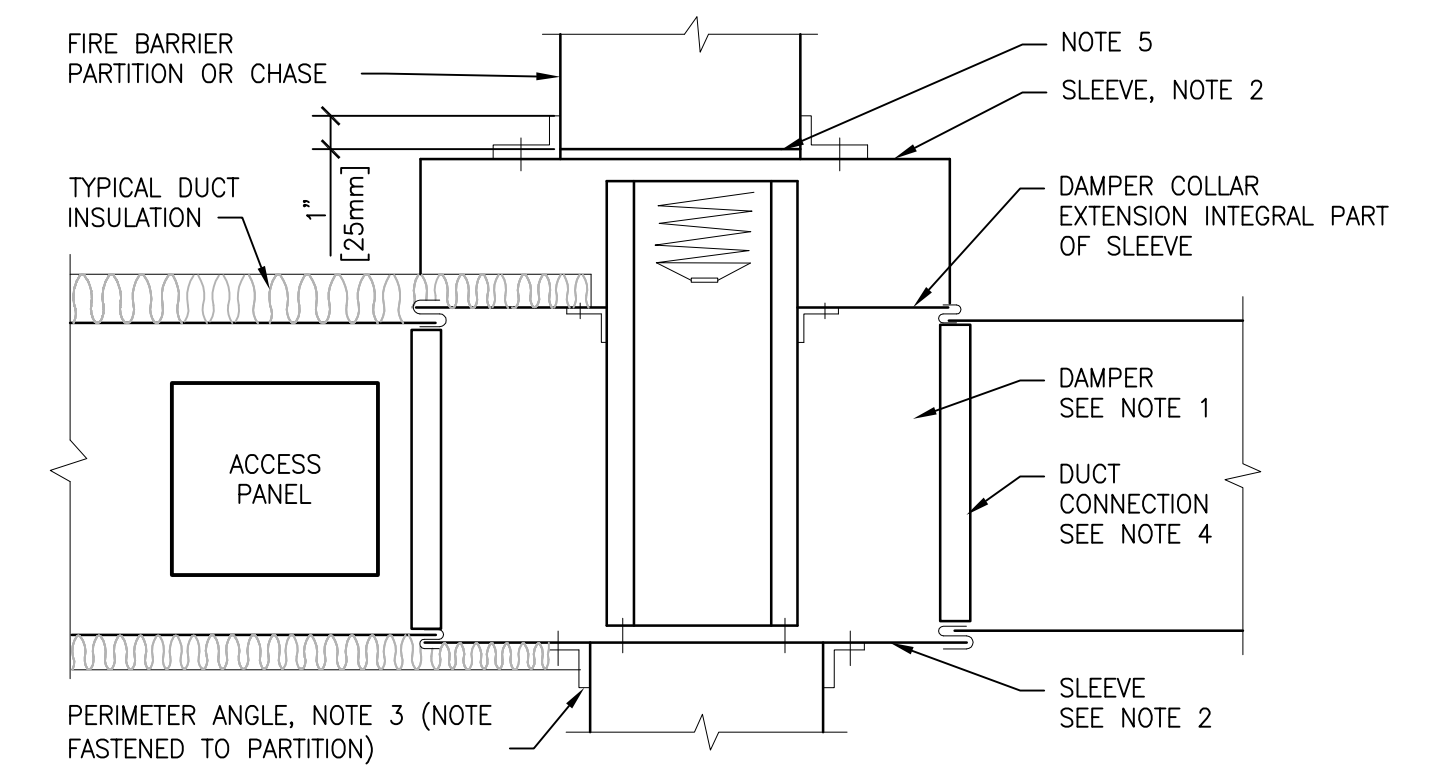
- NOTE:
- SECURE CURB CAP TO WOOD NAILING STRIP WITH 3/8" [10mm] CADMIUM PLATED LAG BOLTS NOT OVER 12" [300mm] ON CENTER.
 - SECURE ROOF CURB, DUCTWORK AND DAMPER TO ROOF WITH EXPANSION BOLTS (CONCRETE ROOF) OR RUST RESISTANT BOLTS (METAL DECK AND BAR JOIST ROOF).
 - RUN ELECTRICAL LINES THROUGH CLEARANCE HOLE PROVIDED IN GRAVITY DAMPER, THEN THROUGH VENTILATOR ELECTRICAL CONDUIT GUIDE.

2 POWER ROOF VENTILATOR
SCALE: NTS



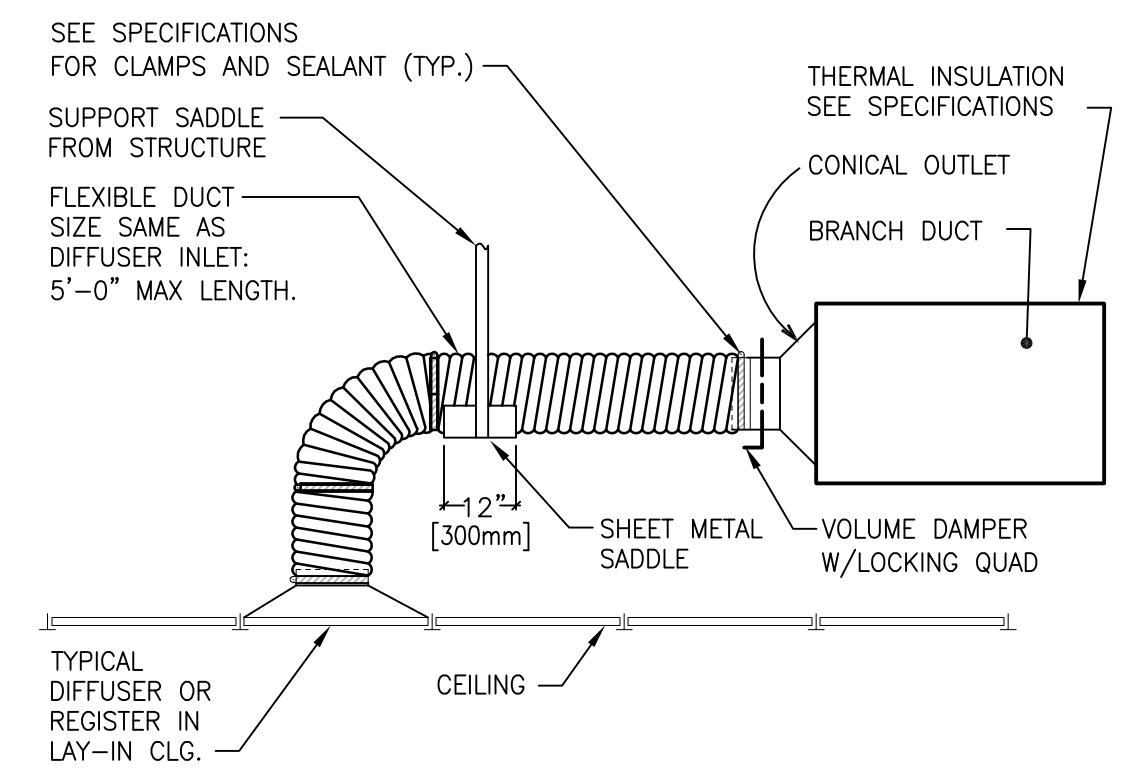
- NOTES:
- THE INTERIOR SURFACE OF ALL RADIUS ELBOWS SHALL BE MADE ROUND.
 - ALL STANDARD RADIUS ELBOWS CAN BE SUBSTITUTED WITH SHORT RADIUS ELBOWS. ALL SHORT RADIUS ELBOWS SHALL HAVE VANES. VANES SHALL BE CONSTRUCTED, SUPPORTED AND FASTENED AS RECOMMENDED BY SMACNA.

3 DUCTWORK RADIUS ELBOWS
SCALE: NTS



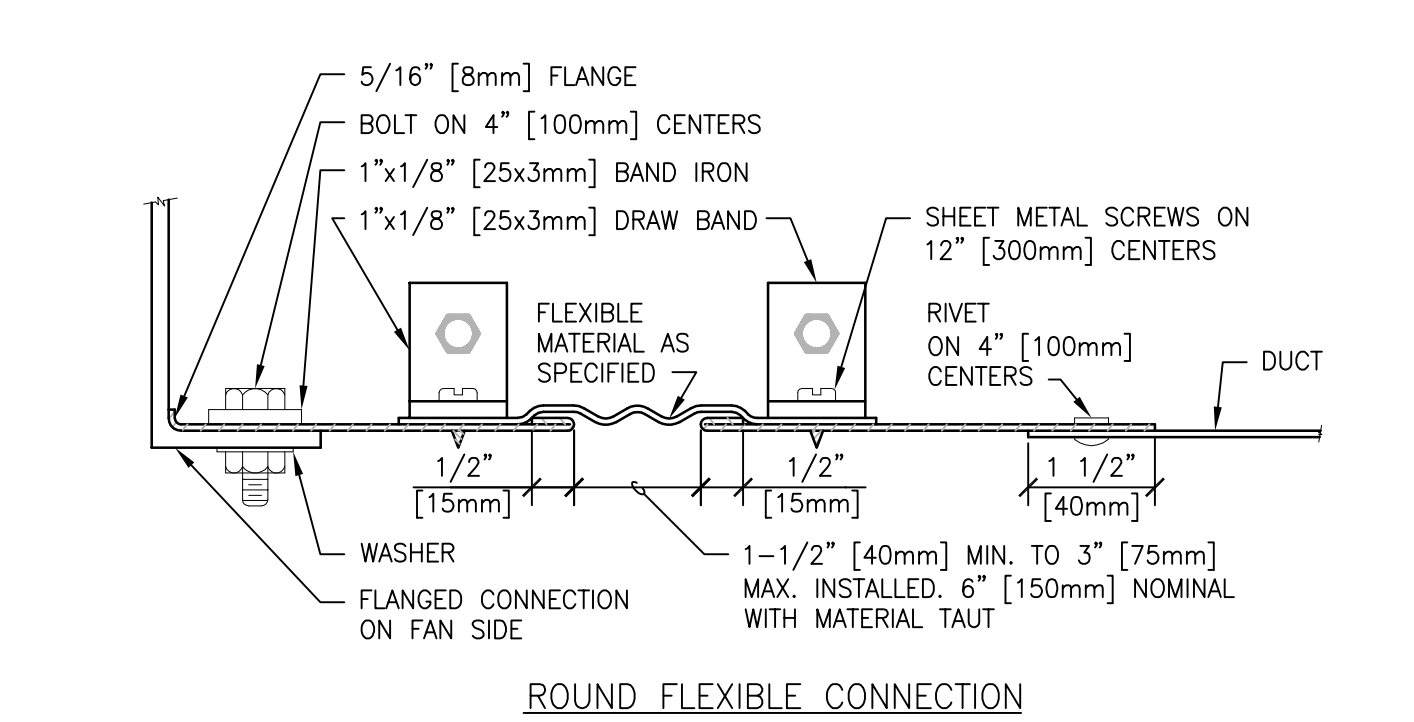
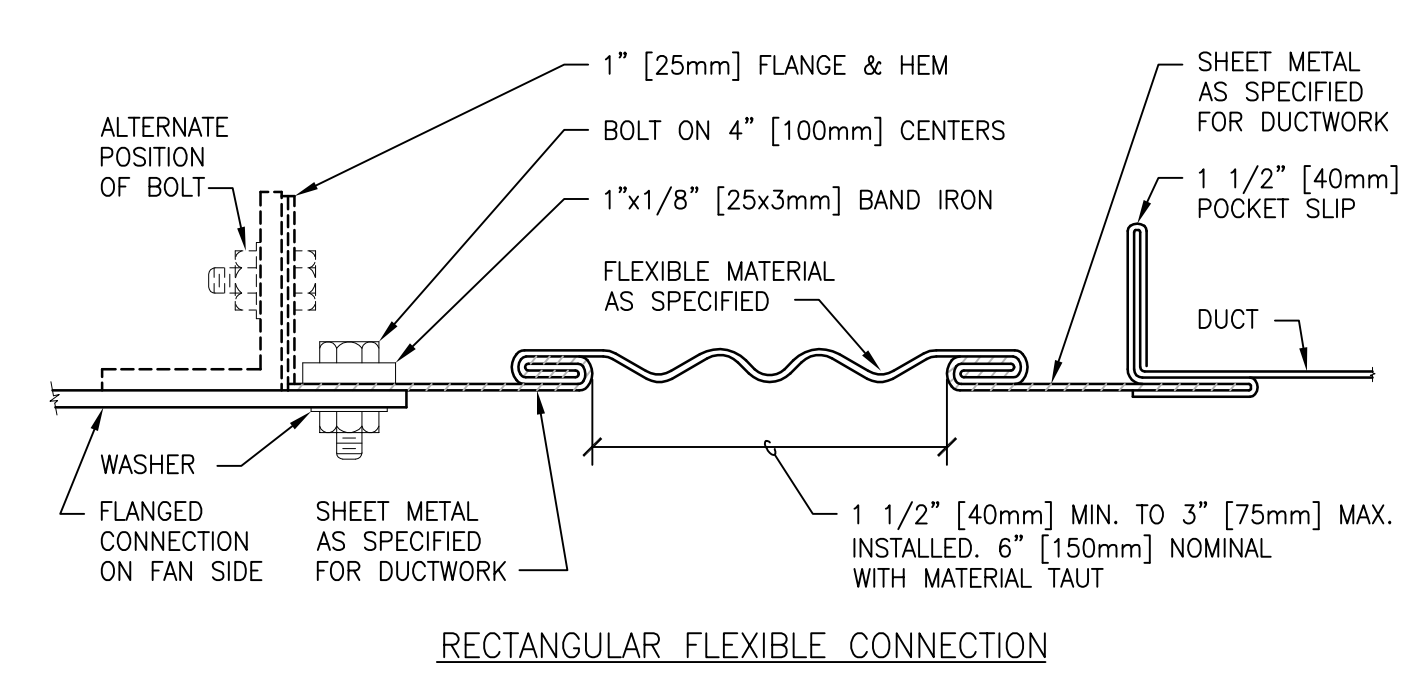
- NOTES:
- A VERTICAL DAMPER IS SHOWN. HORIZONTAL DAMPER INSTALLATION, IS SIMILAR. FOLLOW DAMPER MANUFACTURER'S INSTRUCTIONS, INCLUDING FASTENER OPTIONS AND GAGES FOR SLEEVE AND PERIMETER ANGLES. FIRE DAMPERS MUST BE INSTALLED IN THE PARTITION OR FLOOR AND NOT OUTSIDE THE PENETRATION.
 - GALVANIZED SLEEVE, GAGE NOT LESS THAN CONNECTING DUCT. FASTEN SLEEVE TO DAMPER FRAME AND TO PERIMETER ANGLES.
 - PERIMETER ANGLES: GALVANIZED STEEL, NOT LESS THAN 1 1/2"x1 1/2" [40x40mm], 14 GAGE, TO PROVIDE 1" [25mm] MINIMUM OVERLAP OF OPENING ON ALL 4 SIDES.
 - BREAKAWAY DUCT CONNECTION; CONTRACTOR'S OPTION OF TYPES SHOWN IN SMACNA. ACCESS PANELS: SIZE AND LOCATION TO PERMIT SERVICING THE FUSIBLE LINK OR LINKS.
 - PROVIDE 1/4" TO 1/2" [6 TO 15mm] CLEARANCE ON HEIGHT AND WIDTH.
 - ALL DUCT WORK RISERS WHICH ARE RUN EXPOSED, SUCH AS THRU ATTIC FLOORS AND MECHANICAL ROOM FLOORS, SHALL BE PROVIDED WITH 3" [75mm] HIGH CONCRETE CURB AROUND OPENING FOR DUCT.
 - ALL DETAILS MUST COMPLY WITH FIRE DAMPER MANUFACTURER'S UL MOUNTING REQUIREMENTS.

4 SECTION THRU FIRE DAMPER INSTALLATION
SCALE: NTS

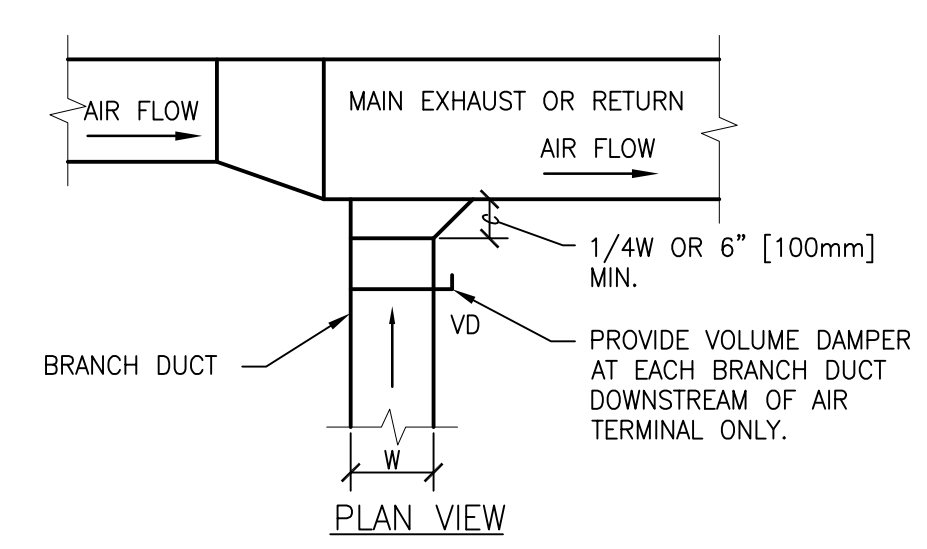


- NOTE:
- THE USE OF FLEXIBLE AIR DUCT CONNECTORS ARE NOT PERMITTED FOR THE DEDICATED AHU SERVING THE SURGICAL SUITE.

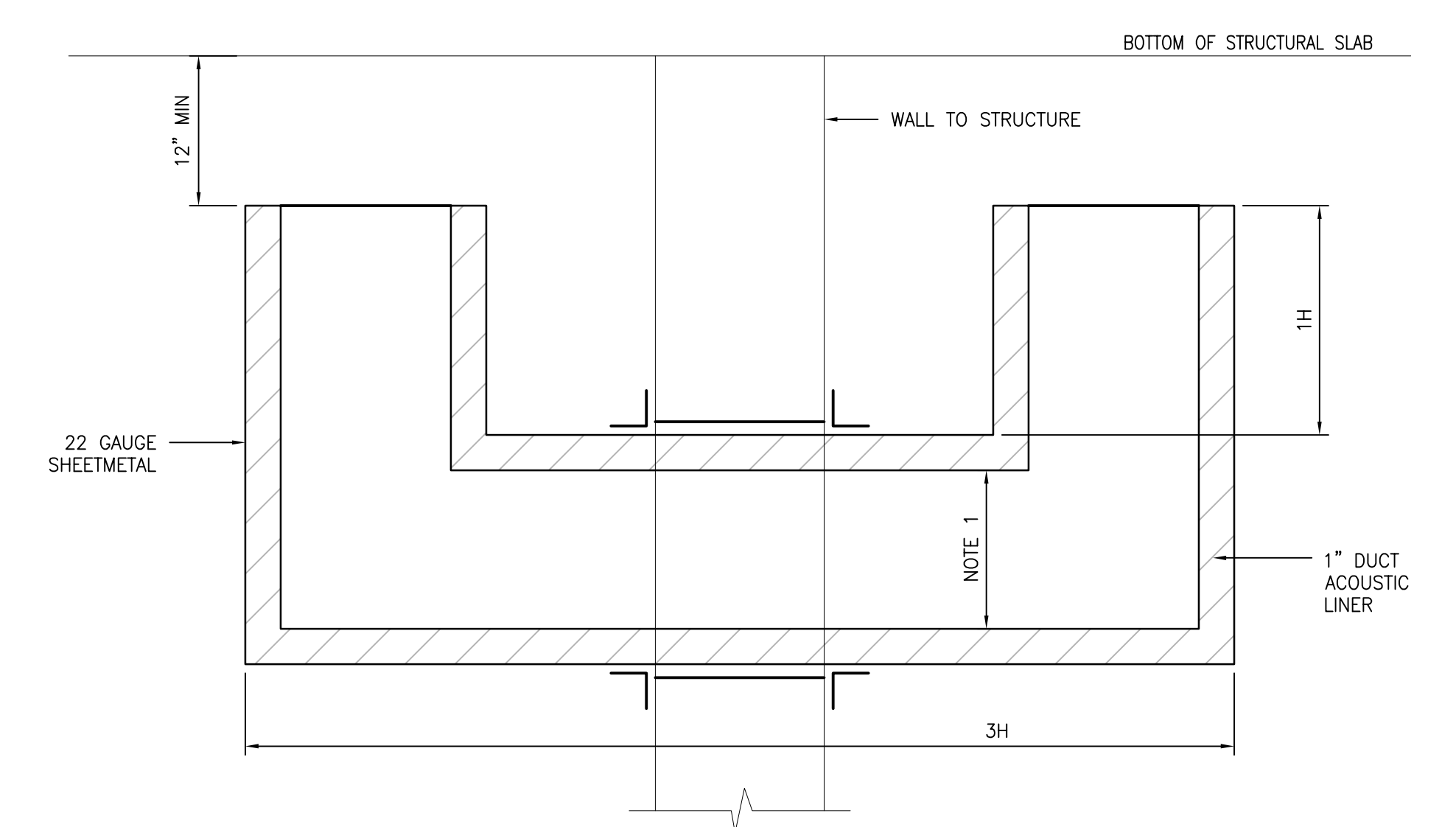
5 FLEXIBLE AIR DUCT CONNECTOR
SCALE: NTS



6 FLEXIBLE DUCT CONNECTIONS
SCALE: NTS

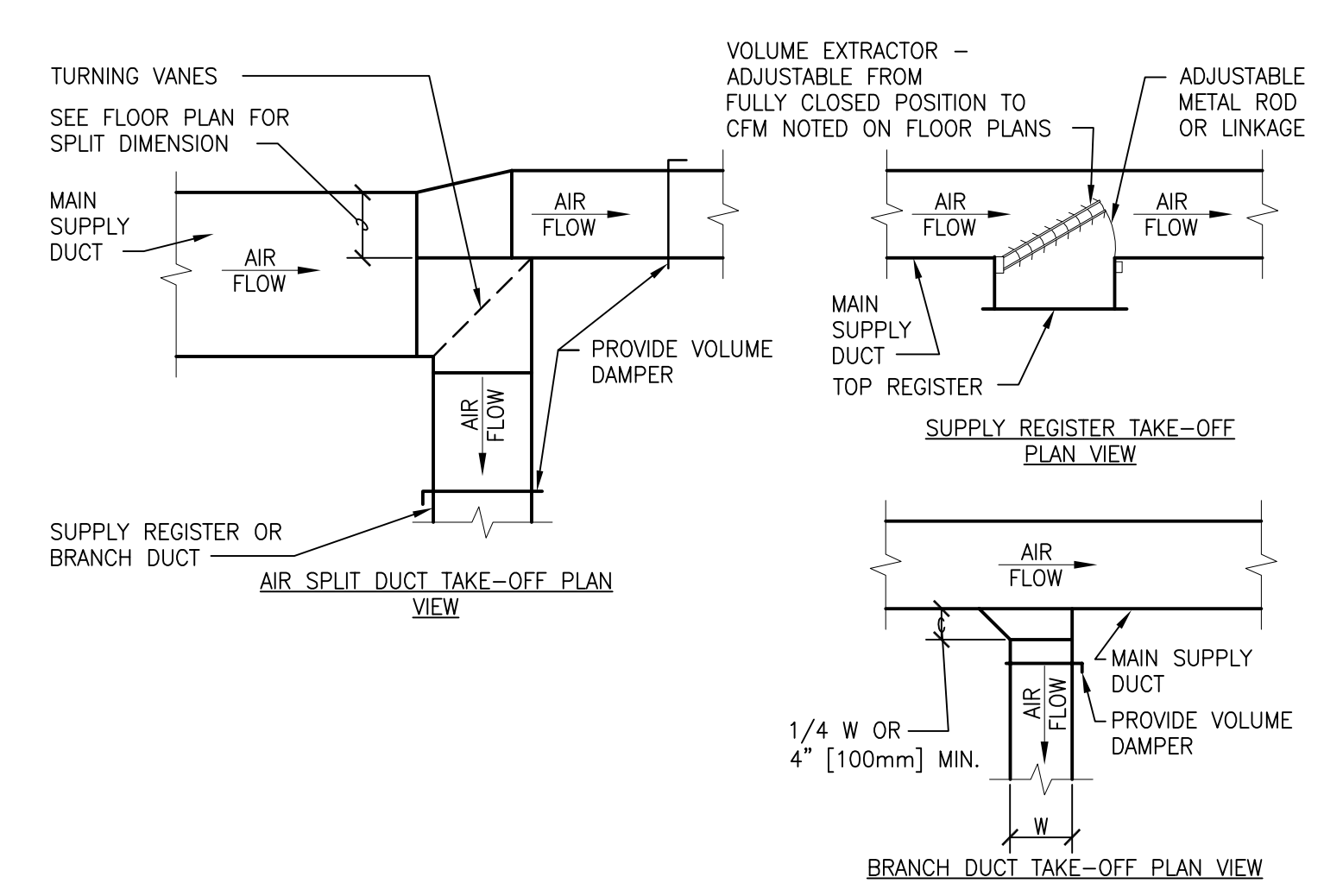


7 EXHAUST OR RETURN BRANCH DUCTWORK
SCALE: NTS

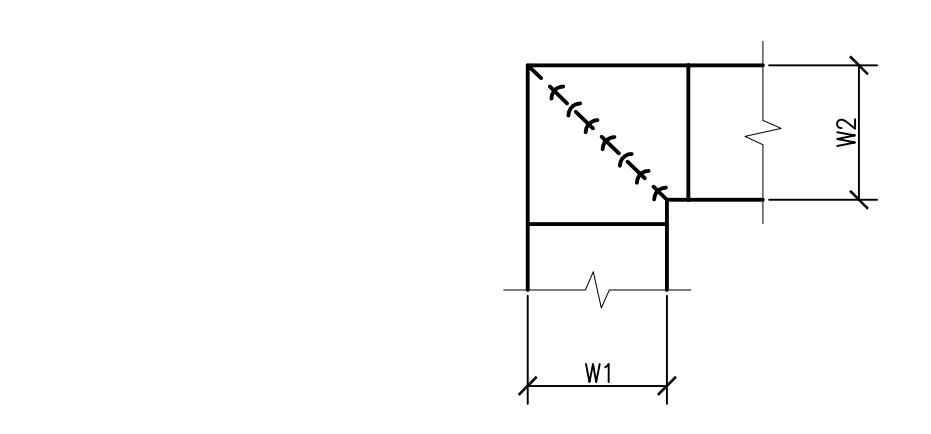


- NOTES:
- SEE PLANS FOR DUCT HEIGHT (H) AND WIDTH. DIMENSIONS ARE INSIDE CLEAR OF LINER.
 - ELBOWS ARE TO BE WITHOUT TURNING VANES.
 - PROVIDE SHEETMETAL CLOSURE FULL PERIMETER OF TRANSFER AND SEAL WITH LATEX JOINT SEALANT SPECIFIED IN SECTION 079200. SHEETMETAL SCREW.

8 ACOUSTICAL AIR TRANSFER DETAIL
SCALE: NTS

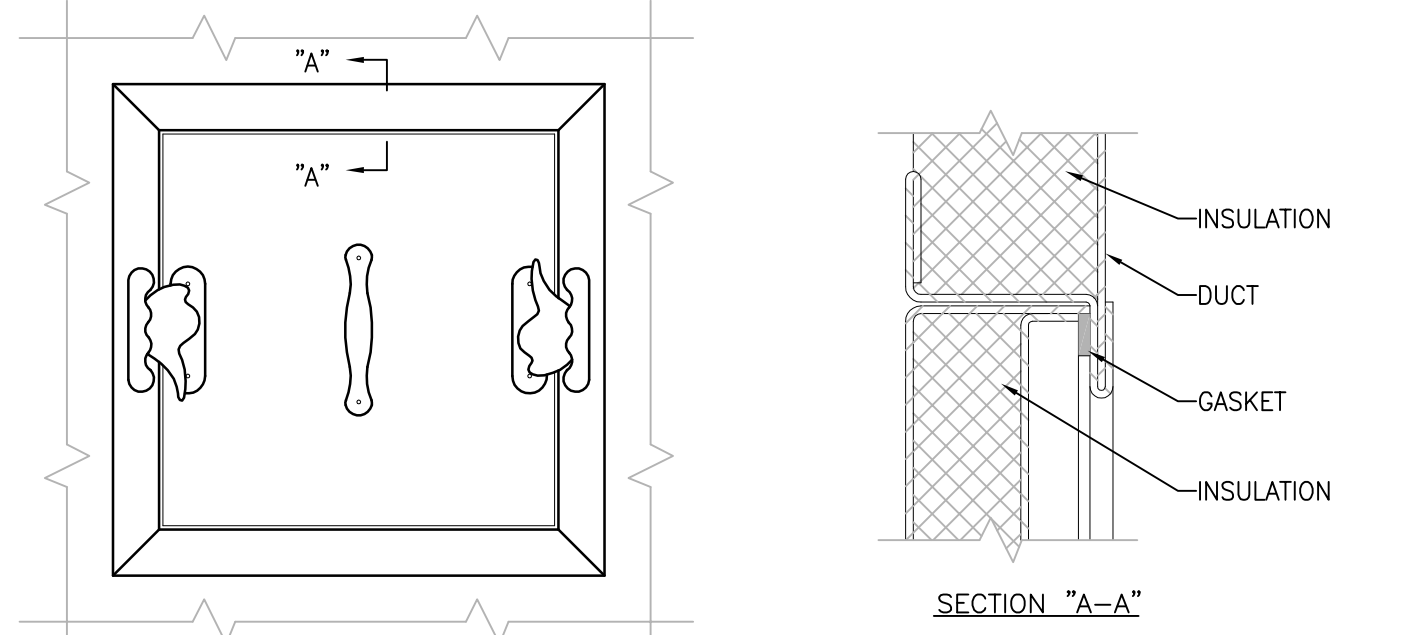


9 SUPPLY DUCTWORK TAKE-OFFS
SCALE: NTS



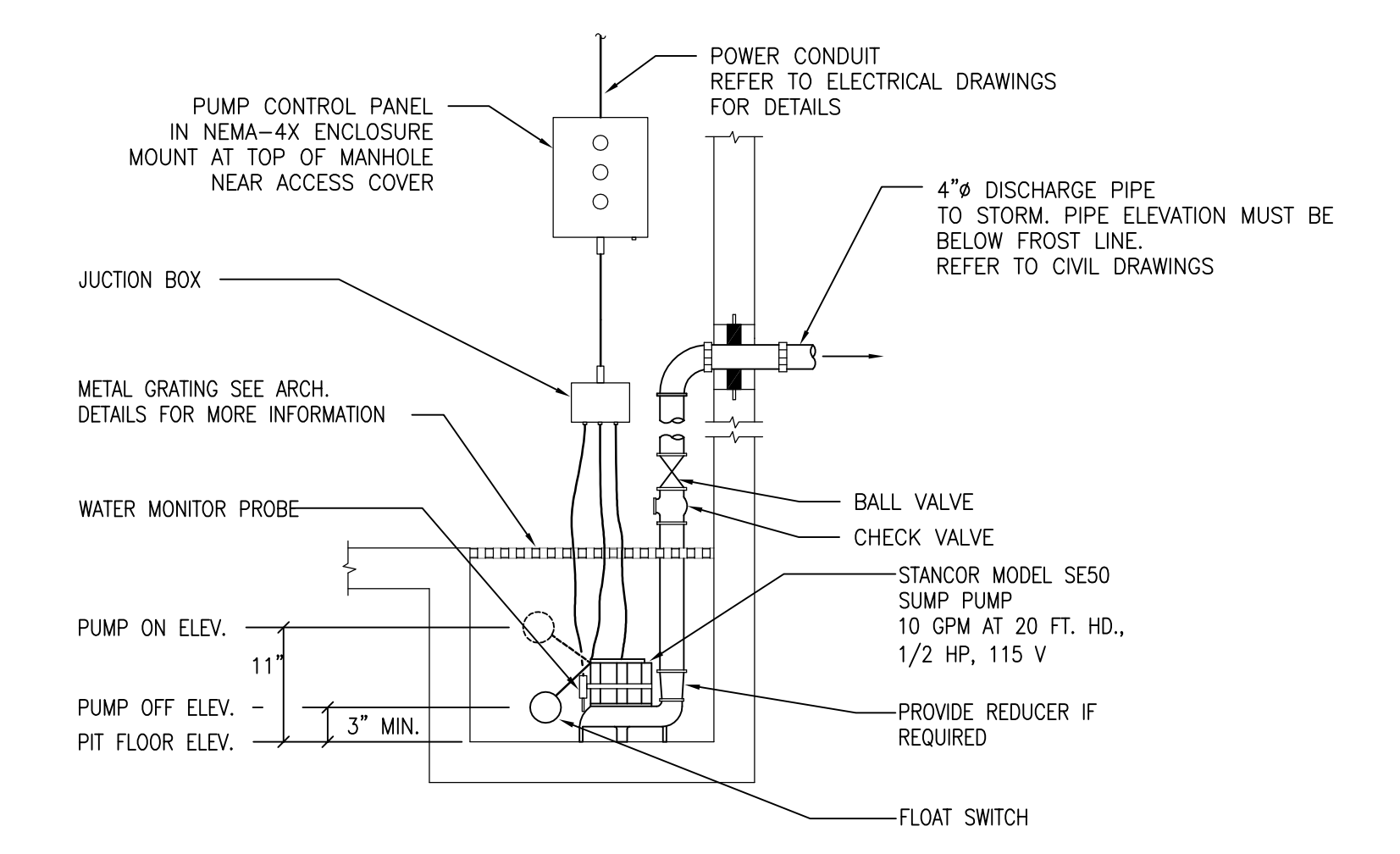
- NOTES:
- ALL VANE ELBOWS SHALL BE CONSTRUCTED AND INSTALLED AS DETAILED BY SMACNA.
 - WHEN W1 DOES NOT EQUAL W2, VANE SHALL BE SINGLE THICKNESS VANE TYPE REGARDLESS OF W DIMENSION.
 - ALL SINGLE THICKNESS VANES SHALL HAVE A 2" [50mm] RADIUS, 1 1/2" [40mm] MAXIMUM SPACE BETWEEN VANES AND A 3/4" [20mm] TRAILING EDGE.
 - WHEN W EQUALS W2 AND W1 IS GREATER THAN 20" [500mm] VANES SHALL BE DOUBLE VANE TYPE.

10 DUCTWORK SQUARE VANE ELBOWS
SCALE: NTS



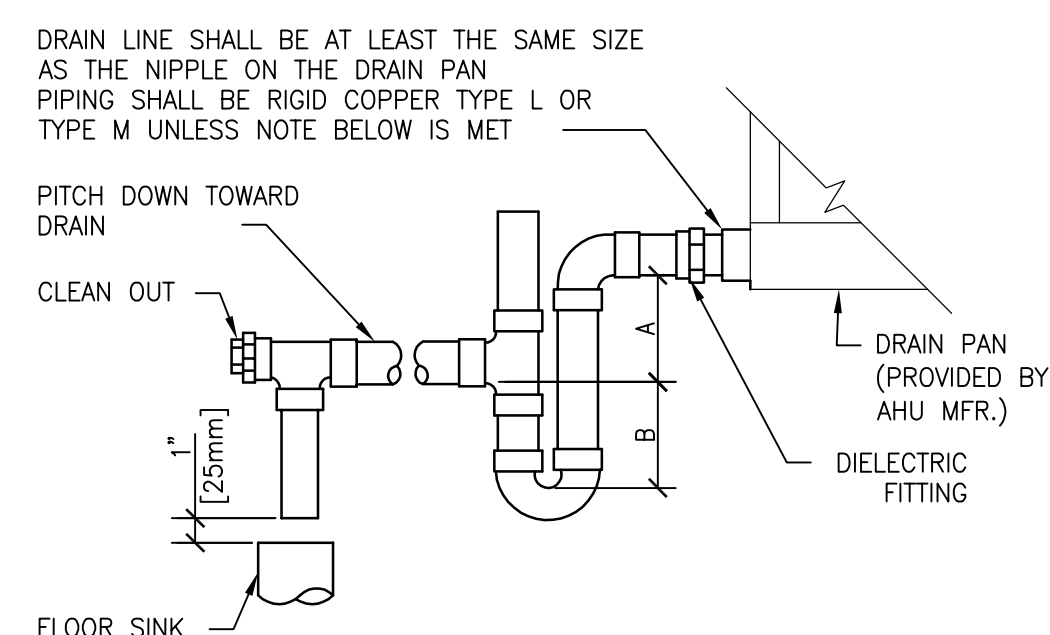
- NOTES:
- LATCHES SHALL BE OF THE WEDGE TYPE TO CLOSE DOORS TIGHTLY.
 - HINGES ON THE ACCESS DOORS SHALL HAVE NON-CORROSIVE PINS.
 - SEE SMACNA 2005, FIGURE 9-15

11 ACCESS PANEL AND DOOR DETAIL
SCALE: NTS



12 STEAM/ELECTRIC MANHOLE SUMP PUMP
SCALE: NONE

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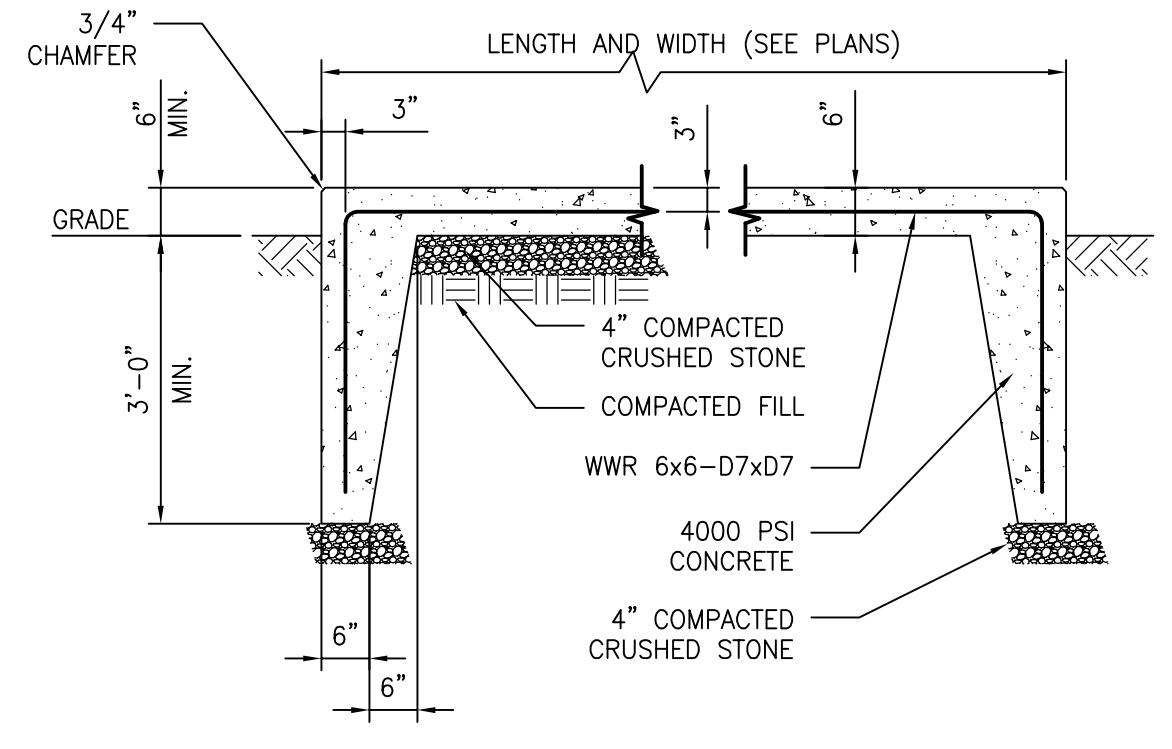


NOTE:
 1. CPVC PIPE MAY BE USED ONLY IF APPROVED BY LOCAL VA AND IS INDOORS AND DOES NOT PASS THROUGH RATED BARRIERS.
 2. DIELECTRIC FITTING TO BE USED WHEN TWO DISSIMILAR METALS ARE TO BE CONNECTED.

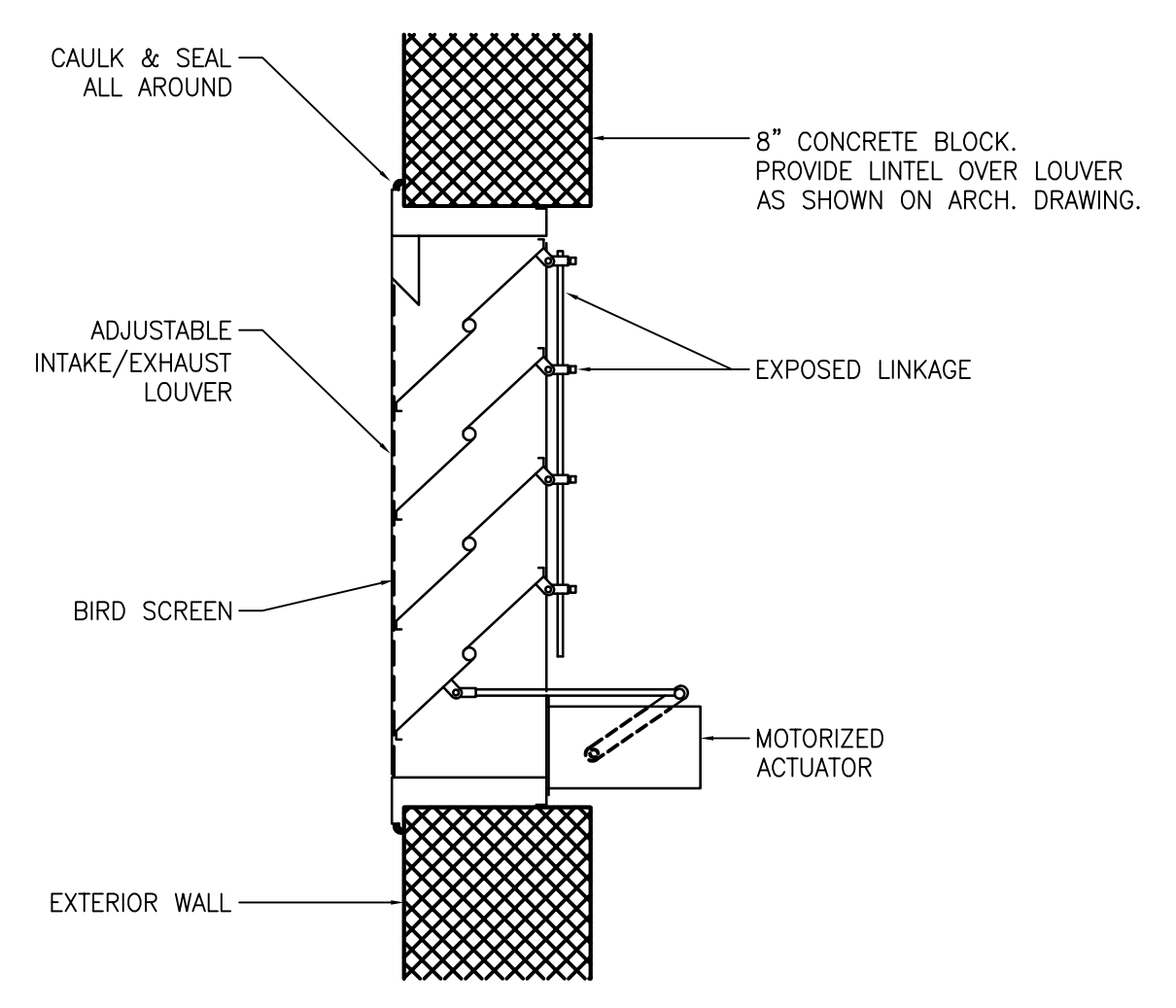
UNIT TYPE	A	B
DRAW THRU	2" [50mm] PLUS X	X
BLOW THRU	1" [25mm] MINIMUM	2X

WHERE X = STATIC PRESSURE IN PAN (PROVIDED BY AHU MANUFACTURER)

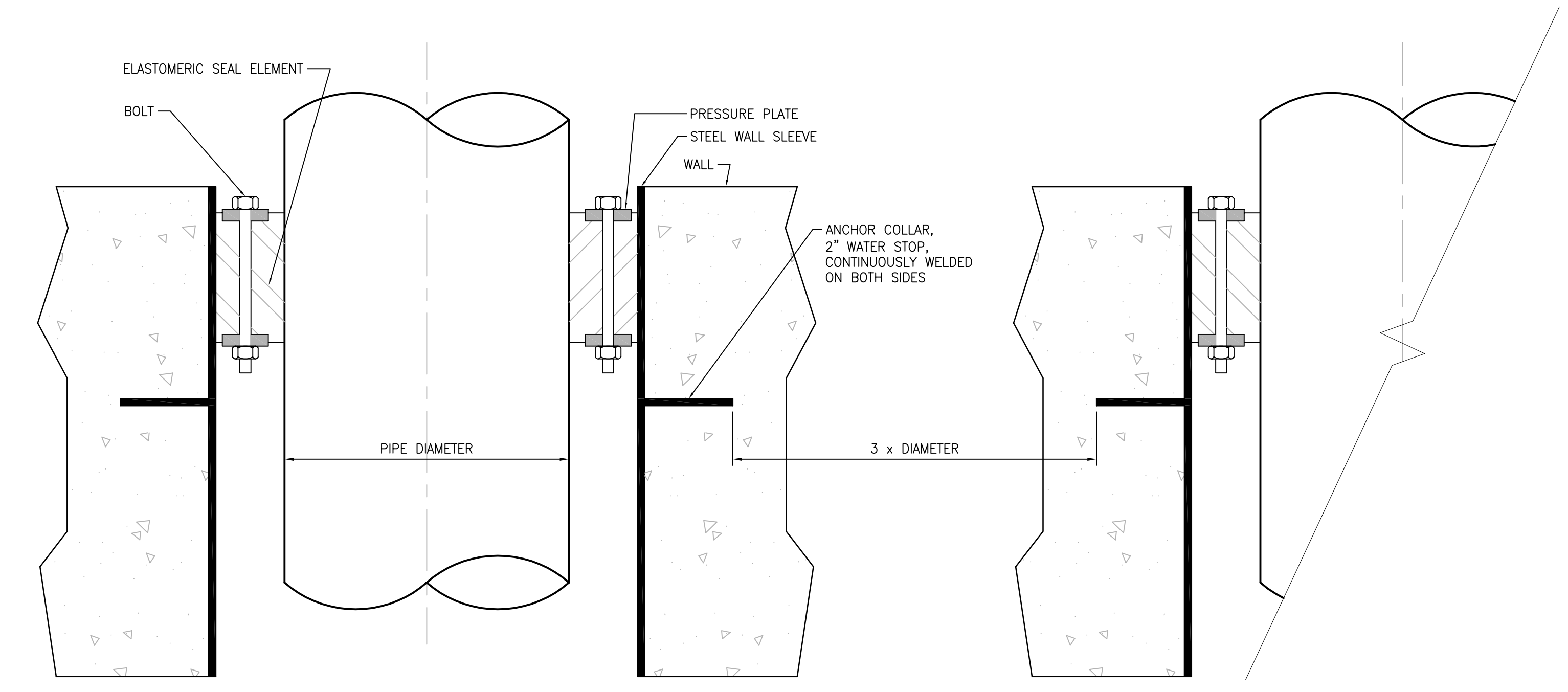
1 AIR HANDLING UNIT DRAIN TRAP DETAIL
 SCALE: NTS



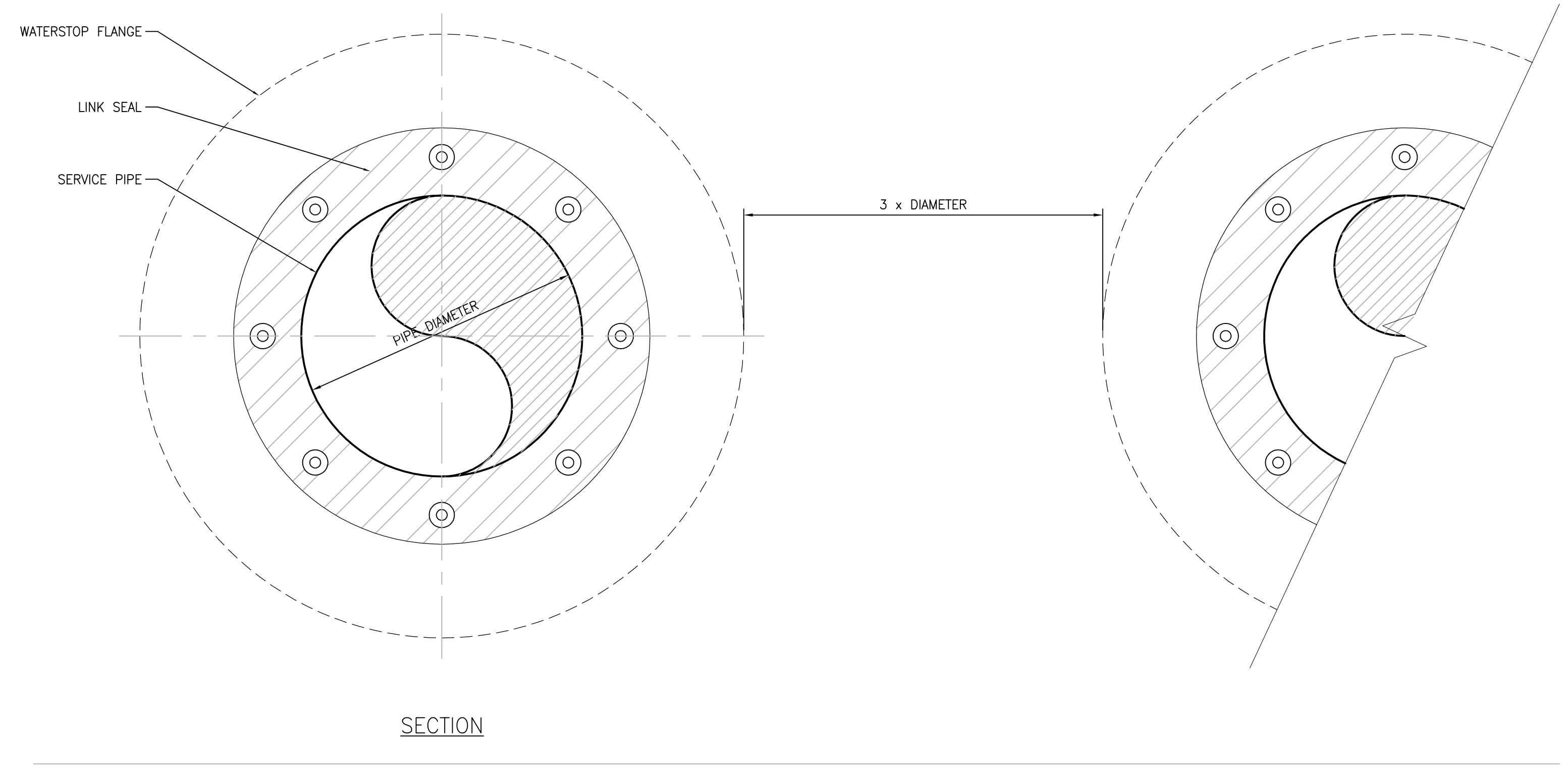
2 MAINTENANCE PAD - 6" THICK
 SCALE: NONE
 REF DWG: X-#



3 MOTORIZED LOUVER DETAIL
 SCALE: NTS



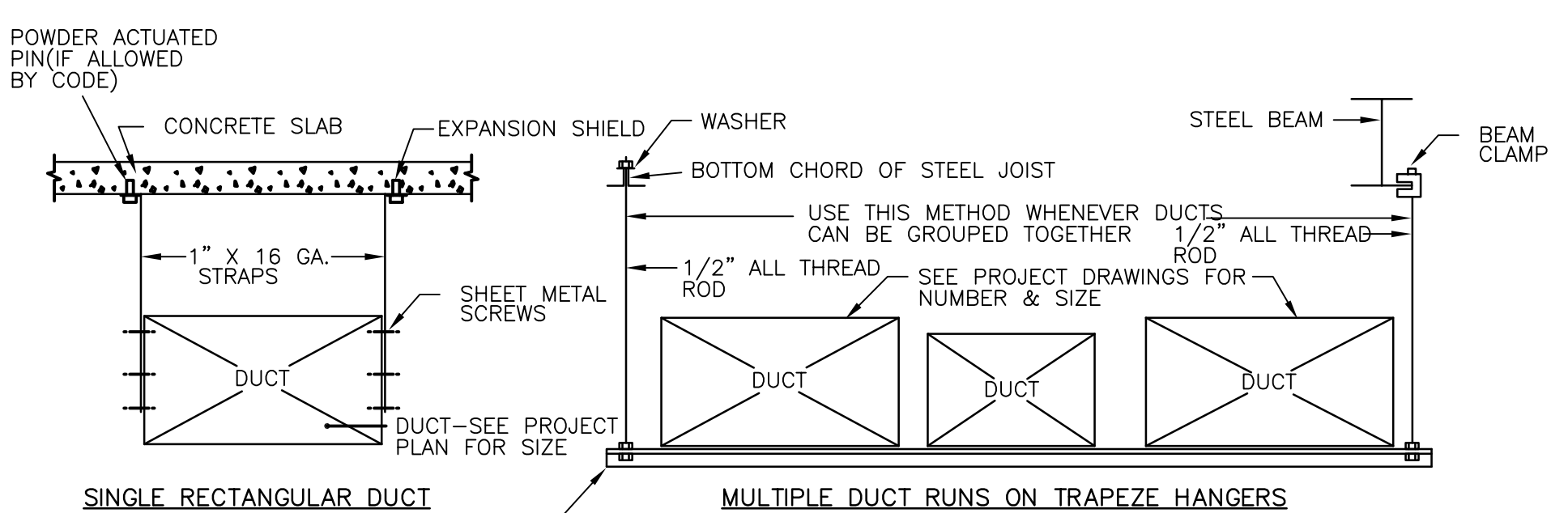
PLAN VIEW



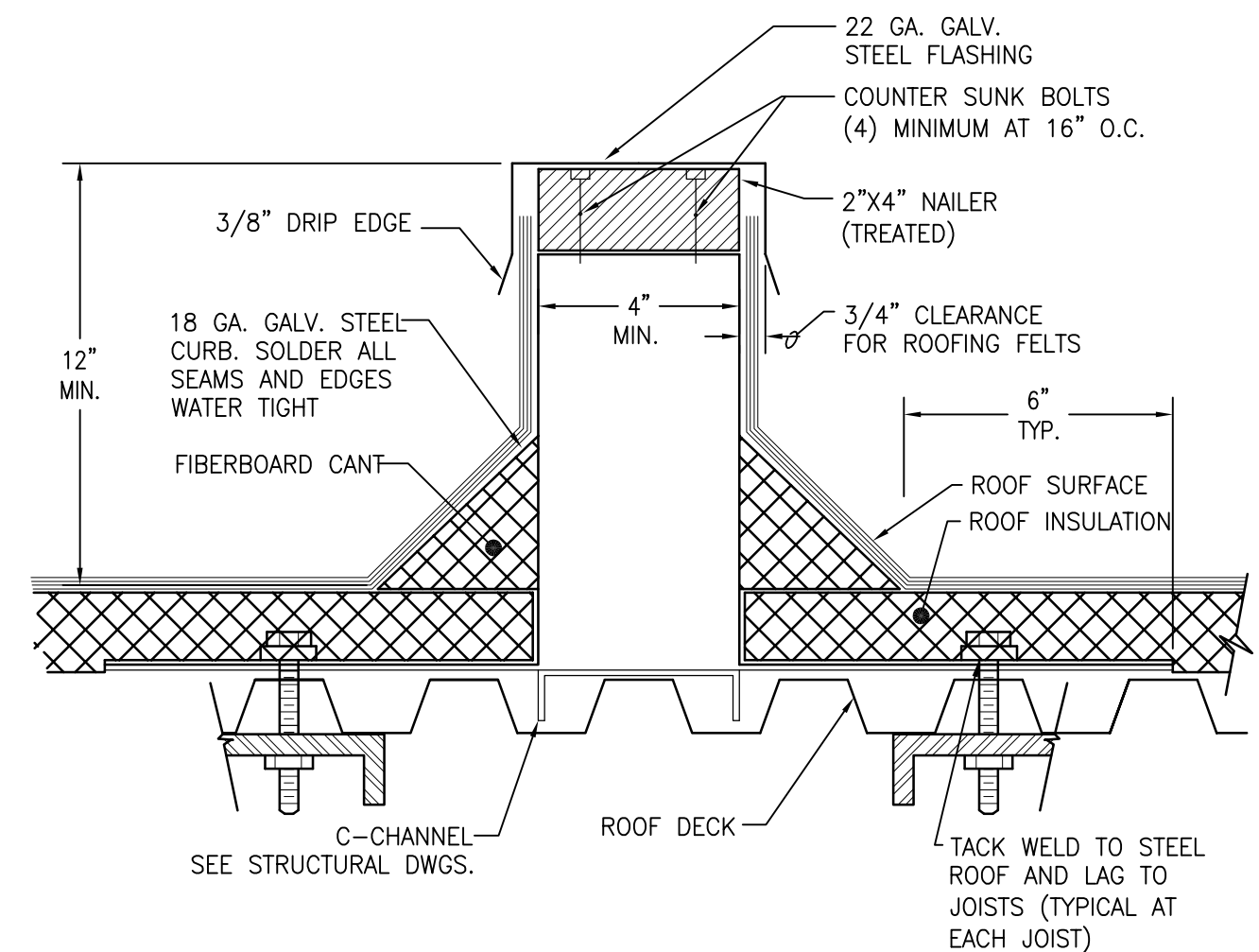
SECTION

6 PIPE PENETRATION THROUGH BELOW-GRADE WALL DETAIL
 SCALE: NTS

- NOTES:
1. ALL PIPING PENETRATIONS THROUGH BELOW-GRADE WALL SHALL BE CAST-IN-PLACE WATERSTOP SLEEVES. CORED HOLED ARE PROHIBITED.
 2. COORDINATE SLEEVE LOCATION WITH GC PRIOR TO FORMING OF WALL.
 3. PROVIDE WATERSTOP SLEEVES TO GC, FOR PLACEMENT IN FORMS, PRIOR TO POURING OF CONCRETE.
 4. SLEEVES SHALL BE HOT DIPPED GALVANIZED.
 5. LINK SEAL ELEMENTS SHALL BE APPROPRIATE FOR SERVICE TEMPERATURE OF THE PIPE.



4 HANGER AND SUPPORT DETAILS FOR LOW PRESSURE DUCTWORK (UP THRU 2" WG)
 SCALE: NTS



5 EQUIPMENT SUPPORT RAIL
 SCALE: NTS

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NO.	DESCRIPTION	DATE

CONSULTANTS	
HAZARDOUS MATERIALS MABBETT & ASSOCIATES, INC. 105 CENTRAL STREET, STONEHAM, MA 02180 PHONE: (781)275-0550 CIVIL/STRUCTURAL PROFESSIONAL ENGINEERING CONSULTANTS, P.A. 303 SOUTH TOPEKA, WICHITA, KS 67202 PHONE: (316)262-2891 ARCHITECTURAL OCULUS INC. DRIVE, SUITE 1500, SAINT LOUIS, MO 63102 PHONE: (314)367-6100	FIRE SUPPRESSION KOFFEL ASSOCIATES 8815 CENTRE PARK DRIVE, SUITE 200, COLUMBIA, MD 21045 PHONE: (410)729-2246 ELECTRONIC SECURITY MAGNA ENGINEERS 861 CORPORATE DRIVE, SUITE 210, LEXINGTON, KY 40503 PHONE: (859)306-2990 PHYSICAL SECURITY FORCE PROTECT 3210 GULF BLVD, UNIT 304, BELLEAIR BEACH, FL 33786 PHONE: (802)836-4232

ENGINEER OF RECORD

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 MR PROJECT NO: 0499-0121

MILLER-REMICK LLC
 PROFESSIONAL ENGINEER

ANTHONY D. PAQUARD
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 26413
 KANSAS
 9.3.2021

Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

Drawing Title MECHANICAL DETAILS
Approved: Project Director

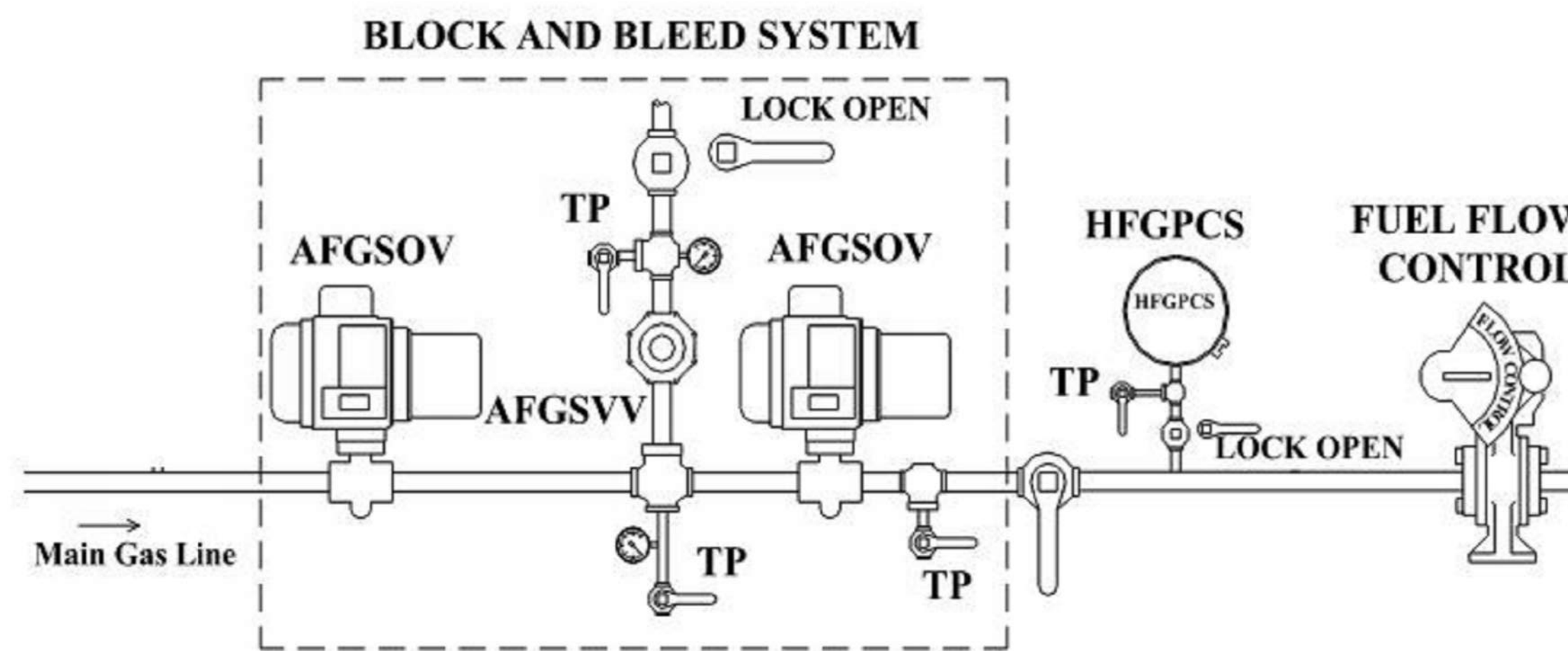
Phase 100% BID SET
FULLY SPRINKLERED

Project Title INSTALL NEW BOILERS IN BUILDING 13
Location ROBERT J. DOLE VA MEDICAL CENTER WICHITA, KANSAS
Issue Date 2021-09-03
Checked MH
Drawn GDS

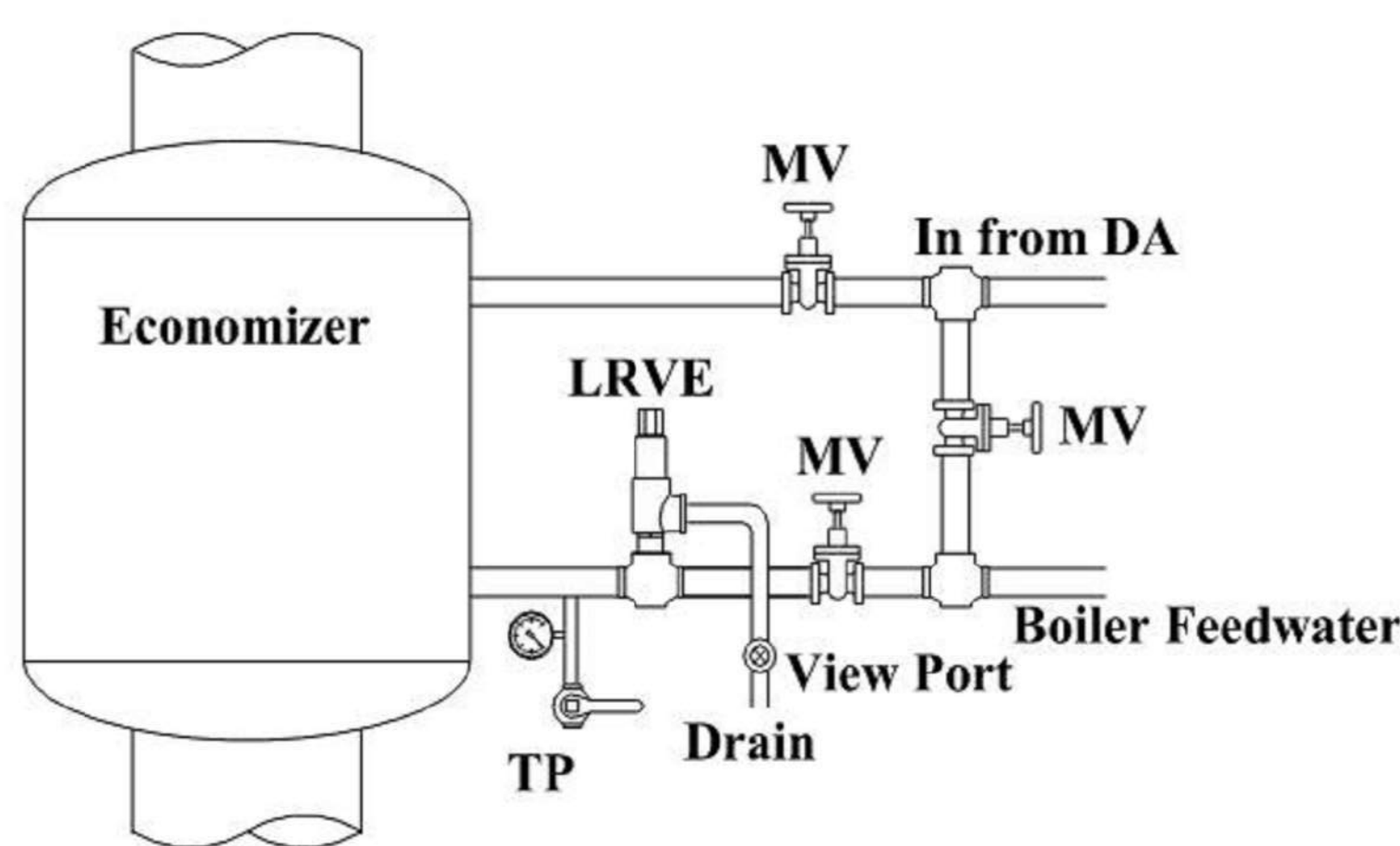
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Building Number 13
Drawing Number M-506

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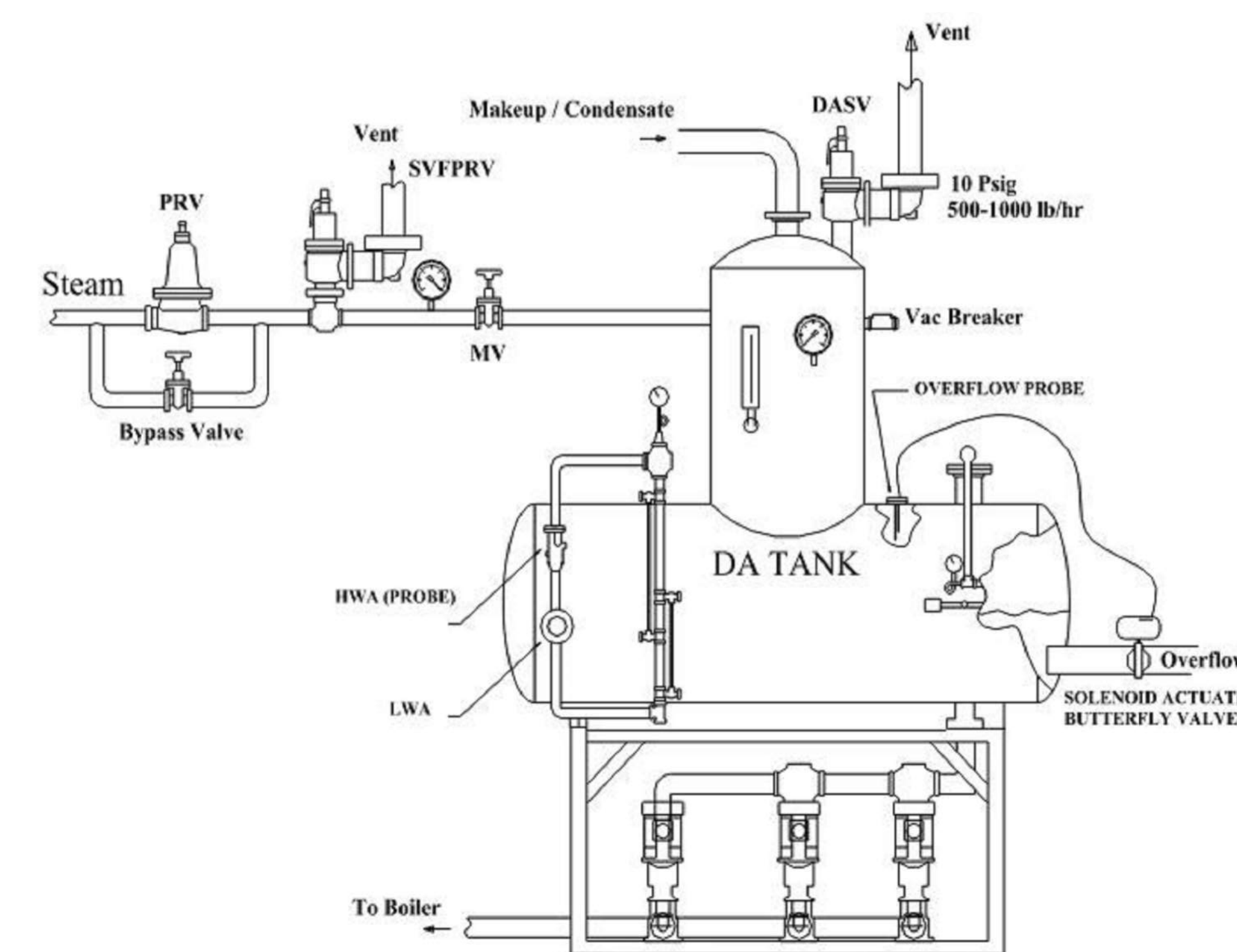
1. REFER TO DRAWING M-001 FOR MECHANICAL ABBREVIATIONS, NOTES & SYMBOLS.
2. REFERENCE ALL OTHER DRAWINGS IN THIS PACKAGE FOR COORDINATION.



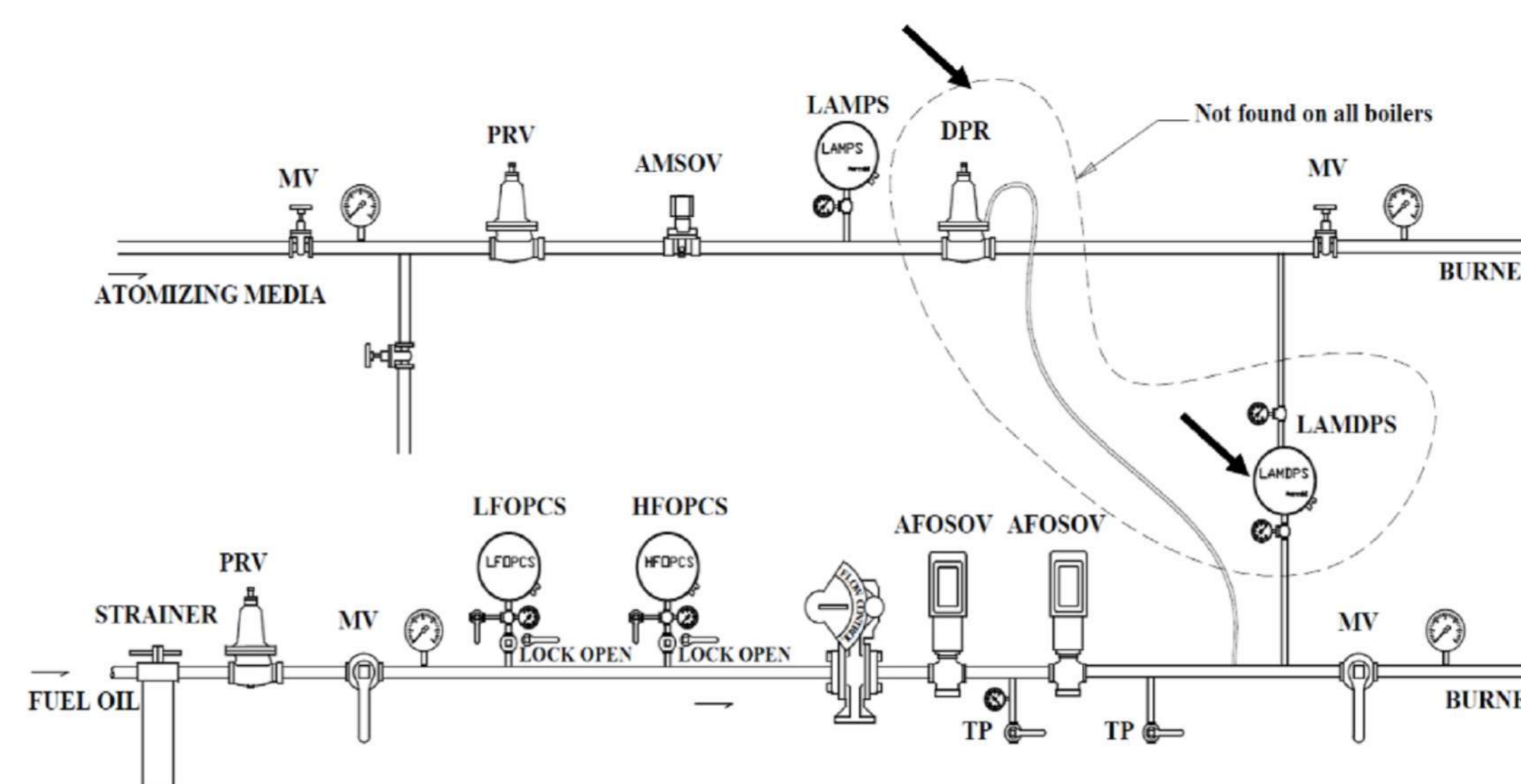
1 MAIN GAS TRAIN DETAIL
SCALE: NTS



2 ECONOMIZER TESTING DETAIL
SCALE: NTS



3 DEAERATOR OVERFLOW DRAIN SYSTEM DETAIL
SCALE: NTS



4 LOW OIL ATOMIZING MEDIA DIFFERENTIAL PRESSURE SWITCHES
SCALE: NTS

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NO.	DESCRIPTION	DATE

CONSULTANTS

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ENGINEER OF RECORD

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MR PROJECT NO: 0499-0121

MILLER-REMICK LLC
PROFESSIONAL ENGINEER

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26413
9.3.2021

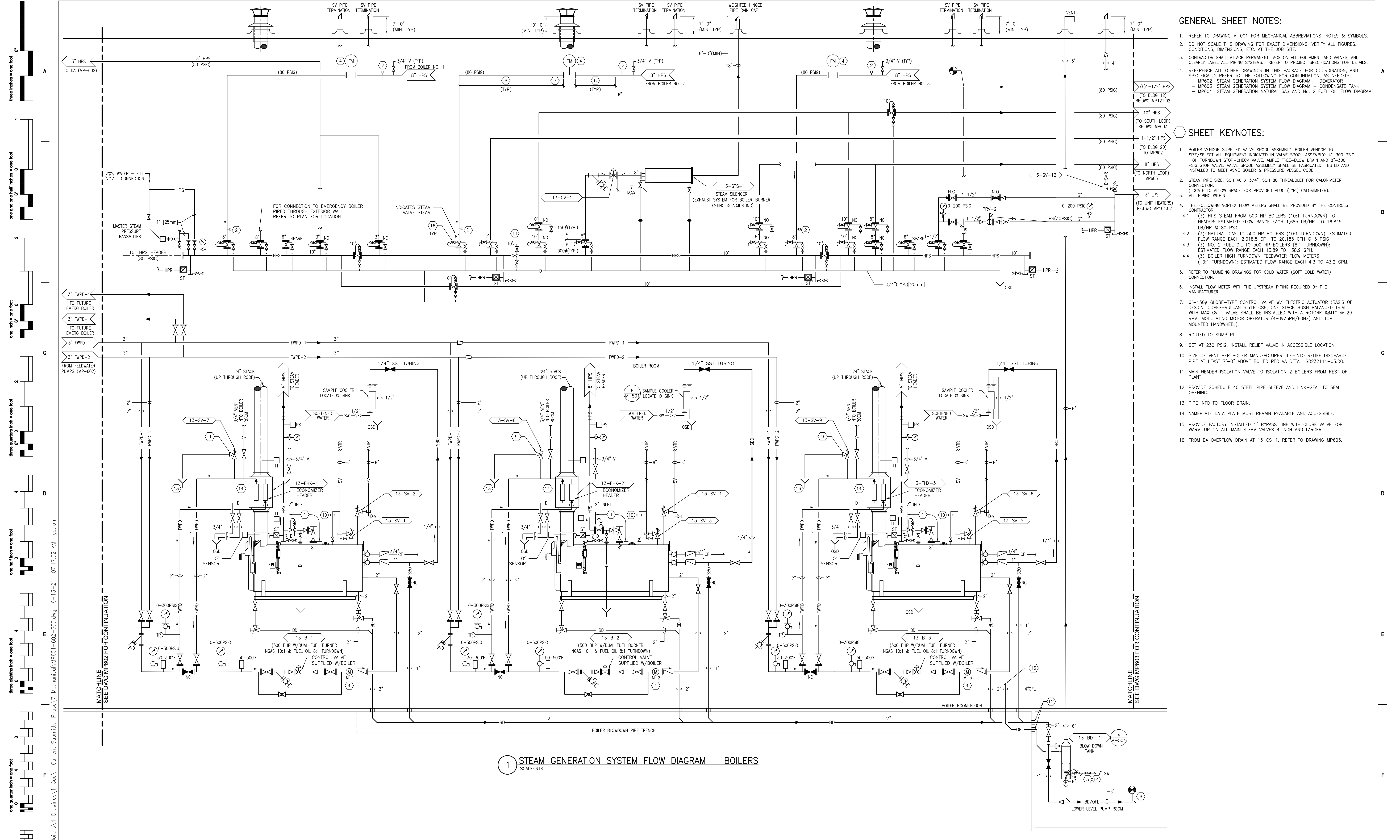
Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

Drawing Title MECHANICAL DETAILS	Phase 100% BID SET
Approved: Project Director	FULLY SPRINKLERED

Project Title INSTALL NEW BOILERS IN BUILDING 13	Project Number 589A7-18-302
Location ROBERT J. DOLE VA MEDICAL CENTER WICHITA, KANSAS	Building Number M-507
Issue Date 2021-09-03	Checked MH
	Drawn ARF

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1 STEAM GENERATION SYSTEM FLOW DIAGRAM - BOILERS
SCALE: NTS

GENERAL SHEET NOTES:

- REFER TO DRAWING M-001 FOR MECHANICAL ABBREVIATIONS, NOTES & SYMBOLS.
- DO NOT SCALE THIS DRAWING FOR EXACT DIMENSIONS. VERIFY ALL FIGURES, CONDITIONS, DIMENSIONS, ETC. AT THE JOB SITE.
- CONTRACTOR SHALL ATTACH PERMANENT TAGS ON ALL EQUIPMENT AND VALVES, AND CLEARLY LABEL ALL PIPING SYSTEMS. REFER TO PROJECT SPECIFICATIONS FOR DETAILS.
- REFERENCE ALL OTHER DRAWINGS IN THIS PACKAGE FOR COORDINATION, AND SPECIFICALLY REFER TO THE FOLLOWING FOR CONTINUATION, AS NEEDED:
 - MP602 STEAM GENERATION SYSTEM FLOW DIAGRAM - DEAERATOR
 - MP603 STEAM GENERATION SYSTEM FLOW DIAGRAM - CONDENSATE TANK
 - MP604 STEAM GENERATION NATURAL GAS AND NO. 2 FUEL OIL FLOW DIAGRAM

SHEET KEYNOTES:

- BOILER VENDOR SUPPLIED VALVE SPOOL ASSEMBLY. BOILER VENDOR TO SIZE/SELECT ALL EQUIPMENT INDICATED IN VALVE SPOOL ASSEMBLY. 4"-300 PSIG HIGH TURNDOWN STOP-CHECK VALVE, AMPLIF-FLOW DRAIN AND 8"-300 PSIG STOP VALVE. VALVE SPOOL ASSEMBLY SHALL BE FABRICATED, TESTED AND INSTALLED TO MEET ASME BOILER & PRESSURE VESSEL CODE.
- STEAM PIPE SIZE, SCH 40 X 3/4", SCH 80 THREADED FOR CALORIMETER CONNECTION (LOCATE TO ALLOW SPACE FOR PROVIDED FLAG (TYP.) CALORIMETER).
- ALL PIPING WITHIN
 - THE FOLLOWING VORTEX FLOW METERS SHALL BE PROVIDED BY THE CONTROLS CONTRACTOR:
 - (3)-HPS STEAM FROM 500 HP BOILERS (10:1 TURNDOWN); ESTIMATED FLOW RANGE EACH 1,685 LB/HR. TO 16,845 LB/HR @ 80 PSIG
 - (3)-NATURAL GAS TO 500 HP BOILERS (10:1 TURNDOWN); ESTIMATED FLOW RANGE EACH 2,018.5 CFH TO 20,185 CFH @ 5 PSIG
 - (3)-NO. 2 FUEL OIL TO 500 HP BOILERS (8:1 TURNDOWN); ESTIMATED FLOW RANGE EACH 13.89 TO 138.9 GPH.
 - (3)-BOILER HIGH TURNDOWN FEEDWATER FLOW METERS. (10:1 TURNDOWN); ESTIMATED FLOW RANGE EACH 4.3 TO 43.2 GPM
- REFER TO PLUMBING DRAWINGS FOR COLD WATER (SOFT COLD WATER) CONNECTION.
- INSTALL FLOW METER WITH THE UPSTREAM PIPING REQUIRED BY THE MANUFACTURER.
- 6"-150# GLOBE-TYPE CONTROL VALVE W/ ELECTRIC ACTUATOR (BASIS OF DESIGN: COPES-VULCAN STYLE GSB, ONE STAGE HUSH BALANCED TRIM WITH MAX CV). VALVE SHALL BE INSTALLED WITH A ROTORK LOW/HD @ 29 RPM, MODULATING MOTOR OPERATOR (480V/3PH/60HZ) AND TOP MOUNTED HANDWHEEL).
- ROUTED TO SUMP PIT.
- SET AT 230 PSIG. INSTALL RELIEF VALVE IN ACCESSIBLE LOCATION.
- SIZE OF VENT PER BOILER MANUFACTURER. TIE-INTO RELIEF DISCHARGE PIPE AT LEAST 7'-0" ABOVE BOILER PER VA DETAIL SD232111-03.DG.
- MAIN HEADER ISOLATION VALVE TO ISOLATION 2 BOILERS FROM REST OF PLANT.
- PROVIDE SCHEDULE 40 STEEL PIPE SLEEVE AND LINK-SEAL TO SEAL OPENING.
- PIPE INTO TO FLOOR DRAIN.
- NAMEPLATE DATA PLATE MUST REMAIN READABLE AND ACCESSIBLE.
- PROVIDE FACTORY INSTALLED 1" BYPASS LINE WITH GLOBE VALVE FOR WARM-UP ON ALL MAIN STEAM VALVES 4 INCH AND LARGER.
- FROM DA OVERFLOW DRAIN AT 13-CS-1. REFER TO DRAWING MP603.

PRINTS OF THIS DRAWING SHALL NOT BE USED FOR ANY PURPOSE WHATSOEVER WITHOUT THE SEAL AND SIGNATURE OF THE PROFESSIONAL ENGINEER.			CONSULTANTS HAZARDOUS MATERIALS MABBETT & ASSOCIATES, INC. 105 CENTRAL STREET, STONEHAM, MA 02180 PHONE: (781)275-6550 CIVIL/STRUCTURAL PROFESSIONAL ENGINEERING CONSULTANTS, P.A. 303 SOUTH TOPEKA, WICHITA, KS 67202 PHONE: (316)262-2891 ARCHITECTURAL OCULUS INC. 1 SOUTH MEMORIAL DRIVE, SUITE 1500, SAINT LOUIS, MO 63102 PHONE: (314)367-6100		FIRE SUPPRESSION KOFFEL ASSOCIATES 8815 CENTRE PARK DRIVE, SUITE 200, COLUMBIA, MD 21045 PHONE: (410)729-2246 ELECTRONIC SECURITY MAGNA ENGINEERS 861 CORPORATE DRIVE, SUITE 210, LEXINGTON, KY 40503 PHONE: (859)309-2990 PHYSICAL SECURITY FORCE PROTECT 3210 GULF BLVD, UNIT 304, BELLEAIR BEACH, FL 33786 PHONE: (802)836-4232		ENGINEER OF RECORD Miller-Remick LLC M.E.P. & Structural Engineering A Service Disabled Veteran Owned Small Business 1010 KINGS HIGHWAY SOUTH CHERRY HILL, NEW JERSEY 08034 PHONE: (856)439-4000 FAX: (856)439-5002 MR PROJECT NO: 0499-0121		MILLER-REMICK LLC PROFESSIONAL ENGINEER 		Office of Construction and Facilities Management VA U.S. Department of Veterans Affairs		Drawing Title MECHANICAL STEAM GENERATION FLOW DIAGRAM - BOILERS Approved: Project Director		Phase 100% BID SET FULLY SPRINKLERED		Project Title INSTALL NEW BOILERS IN BUILDING 13 Location ROBERT J. DOLE VA MEDICAL CENTER WICHITA, KANSAS Issue Date 2021-09-03 Checked MH Drawn GDS		Project Number 589A7-18-302 Building Number 13 Drawing Number MP601	
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