

MECHANICAL DRAWING LIST	
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M0003	MECHANICAL LEGEND 2 OF 2
M0004	MECHANICAL DETAILS 1 OF 5
M0005	MECHANICAL DETAILS 2 OF 5
M0006	MECHANICAL DETAILS 3 OF 5
M0007	MECHANICAL DETAILS 4 OF 5
M0008	MECHANICAL DETAILS 5 OF 5
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M0202	EQUIPMENT SCHEDULE 2 OF 3
M0203	EQUIPMENT SCHEDULE 3 OF 3
M1101	DEMOLITION PLAN - PLUMBING/DRAINAGE GROUND FLOOR
M1102	DEMOLITION PLAN - PLUMBING/DRAINAGE SECOND FLOOR
M1103	DEMOLITION PLAN - HVAC GROUND FLOOR
M1104	DEMOLITION PLAN - ROOF PLAN
M2101	PLUMBING - GROUND FLOOR
M3101	DRAINAGE - GROUND FLOOR
M3102	DRAINAGE - GROUND FLOOR SECTION VIEWS
M3103	PLUMBING & DRAINAGE SCHEMATIC DIAGRAMS
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M6101	FIRE PROTECTION - GROUND FLOOR
M7101	PROCESS - GROUND FLOOR
M7102	COMPRESSED AIR & ENGINE OIL SCHEMATIC DIAGRAMS

CLIENT

CITY OF TORONTO



Corporate Real Estate Management

Project Management Office

Metro Hall Toronto, ON

M5V 3C6

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Arcadis Professional Services (Canada) Inc.

ISSUES		
No.	DESCRIPTION	DATE
A	ISSUED FOR 50% REVIEW	2025-10-17
B	ISSUED FOR 75% REVIEW	2025-11-04
C	ISSUED FOR 95% REVIEW	2025-12-01
D	ISSUED FOR 100% REVIEW	2025-12-09
E	ISSUED FOR PERMIT	2025-12-09
F	ISSUED FOR TENDER	2025-12-09
G	ISSUED FOR TENDER - REV. 01	2025-12-23

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Toronto, ON M9W 0C9, Canada
tel 416 679 1930
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PROJECT TITLE
TORONTO PARAMEDIC SERVICES FLEET
MAINTENANCE STATION - UPGRADE
WORKS

PROJECT ADDRESS
**KING STREET YARD -
BUILDING NO. 8 & 9**
1116 KING STREET WEST

PROJECT NO: 30276606	
DRAWN BY: C. SU	CHECKED BY: K. ALMOHAMED
PROJECT MGR: N. LAYOUN	APPROVED BY: R. BARROSO

SHEET TITLE
**MECHANICAL DRAWING
LIST**

SHEET NUMBER M0001	ISSUE G
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MECHANICAL LEGEND AND SYMBOLS

[illegible]

CLIENT

CITY OF TORONTO

 **Toronto**

Corporate Real Estate Manager
Project Management Office
Metro Hall Toronto, ON
M5V 3C6

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C. SU

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N. LAYOUN

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R. BARROSO

SHEET TITLE

MECHANICAL LEGEND 1
OF 2

SHEET NUMBER

M0002

ISSUE

ISSUE
G

HEATING, VENTILATION AND AIR CONDITIONING				EQUIPMENT IDENTIFICATION				CONTROLS POINT FUNCTION ABBREVIATION							
<div><div><div></div><div>DUCTWORK (RECTANGULAR)</div></div><div><div></div><div>MOTORIZED DAMPER</div></div><div><div></div><div>OPPOSED BLADE DAMPER</div></div><div><div></div><div>FIRE DAMPER</div></div><div><div></div><div>VOLUME DAMPER/ BALANCING DAMPER</div></div><div><div></div><div>VOLUME EXTRACTOR</div></div><div><div></div><div>TURNING VANES</div></div><div><div></div><div>TAP-IN FITTING</div></div><div><div></div><div>WYE-TEE</div></div><div><div></div><div>ROUND DUCT TURNING TOWARD</div></div><div><div></div><div>SUPPLY DUCT TURNING TOWARD</div></div><div><div></div><div>SUPPLY DUCT TURNING AWAY</div></div><div><div></div><div>ACOUSTIC DUCT INSULATION INTERNAL - SINGLE LINE</div></div><div><div></div><div>FLEXIBLE DUCTWORK</div></div><div><div></div><div>VAV BOX WITH ATTENUATOR</div></div><div><div></div><div>VAV BOX</div></div><div><div></div><div>SUPPLY AIR DIFFUSER (SEE SPECIFICATION FOR TYPE)</div></div><div><div></div><div>DOOR GRILLE</div></div><div><div></div><div>FAN</div></div><div><div></div><div>HUMIDIFIER</div></div><div><div></div><div>AIR FLOW MEASURING STATION</div></div></div> <div><div><div></div><div>DUCTWORK (ROUND)</div></div><div><div></div><div>ACOUSTIC DUCT INSULATION - INTERNAL</div></div><div><div></div><div>PARALLEL BLADE DAMPER</div></div><div><div></div><div>SMOKE DAMPER</div></div><div><div></div><div>COMBINATION FIRE & SMOKE DAMPER</div></div><div><div></div><div>REDUCER</div></div><div><div></div><div>ELBOW</div></div><div><div></div><div>CONICAL TEE FITTING</div></div><div><div></div><div>SPLITTER DAMPER</div></div><div><div></div><div>ROUND DUCT TURNING AWAY</div></div><div><div></div><div>RETURN DUCT TURNING TOWARD</div></div><div><div></div><div>RETURN DUCT TURNING AWAY</div></div><div><div></div><div>SILENCER</div></div><div><div></div><div>FLEXIBLE CONNECTION</div></div><div><div></div><div>VAV BOX WITH RHC & ATTENUATOR</div></div><div><div></div><div>CONSTANT VOLUME BOX</div></div><div><div></div><div>RETURN AIR GRILLE (SEE SPECIFICATION FOR TYPE)</div></div><div><div></div><div>COOLING COIL</div></div><div><div></div><div>PREHEAT COIL</div></div><div><div></div><div>REHEAT COIL</div></div></div> <div><div><div><div>AIR DISTRIBUTION BOXES</div><div></div><div>AIR DISTRIBUTION BOX (AIR QUANTITIES AS INDICATED)</div></div><div><div></div><div>AIR DISTRIBUTION BOX (AIR QUANTITIES EQUAL IN ALL DIEACTIONS)</div></div></div><div><div><div>REGISTERS AND GRILLES</div><div><div>TYPE (SEE SPEC.)</div><div>SIZE</div><div>L/s TOTAL</div></div><div>B-400x500-450</div></div><div><div><div>DIFFUSERS</div><div><div>TYPE (SEE SPEC)</div><div>THROAT SIZE</div><div>L/s TOTAL</div></div><div>A-150-450</div></div></div><div><div><div>LINEAR DIFFUSER</div><div><div>LENGTH</div><div>No OF SLOTS A=1/2" SLOT B=3/4" SLOT</div><div>PATTERN 1=1 WAY 2=2 WAY D=DOWNBLAST</div><div>AIR QUANTITY [L/s]</div><div>PLENUM SIZE</div></div><div>3000-3A-D-250-200X150</div></div><div><div><div>FINNED TUBE LINEAR CONVECTORS</div><div><div>TYPE</div><div>FINNED LENGTH</div><div>ENCLOSURE HEIGHT</div><div>KW</div></div><div>A-900-600-0.9</div></div></div></div></div><div><div><div>ITEM SEE ABBREVIATION FOR DETAILS XX-XXX</div><div>UNIT COUNTER</div></div><div><div>AC AIR CONDITIONING UNIT</div><div>EF EXHAUST FAN</div><div>ACCU AIR COOLED CONDENSING UNIT</div><div>P PUMP</div><div>AHU AIR HANDLING UNIT</div><div>SP SEWAGE PUMP</div></div><div>ABBREVIATIONS</div><div><div><div>AC - AIR CONDITIONING UNIT</div><div>ACCU - AIR COOLED CONDENSING UNITS</div><div>AD - COMPRESSED AIR DRYER</div><div>A.F.F. - ABOVE FINISHED FLOOR</div><div>AHU - AIR HANDLING UNIT</div><div>AHS - COMPRESSED AIR HOSE STATION</div><div>AR - AIR RECEIVER</div><div>ARS - COMPRESSED AIR REGULATING STATION</div><div>B - BOILER</div><div>BS - BOILER (STEAM)</div><div>BW - BOILER (HOT WATER)</div><div>BAS - BUILDING AUTOMATION SYSTEM</div><div>BB - BASEBOARD HEATER</div><div>BFP - BACKFLOW PREVENTER</div><div>BMS - BUILDING MANAGEMENT SYSTEM</div><div>B.O.D.EL - BOTTOM OF DUCT ELEVATION</div><div>B.O.P.EL - BOTTOM OF PIPE ELEVATION</div><div>C - COMPRESSOR</div><div>CC - COOLING COIL</div><div>CF - DESTRATIFICATION FAN</div><div>CFRD - CONTROLLED FLOW ROOF DRAIN</div><div>CH - CHILLER</div><div>CL EL - CENTER LINE OF PIPE ELEVATION</div><div>CO - CLEAN OUT</div><div>CP - CONTROL PANEL</div><div>CR - CRANE</div><div>CRAC - COMPUTER ROOM AC UNIT</div><div>CT - COOLING TOWER</div><div>CTE - CONNECT TO EXISTING</div><div>CU - CONDENSING UNIT</div><div>CUH - CABINET UNIT HEATER</div><div>CV - CONTROL VALVE</div><div>CW - COLD WATER (DOMESTIC)</div><div>C/W - COMPLETE WITH</div><div>DH - DOOR HEATER</div><div>DTH - DUCT HEATER</div><div>DP - DIAPHRAGM PUMP</div><div>DSN - DOWNSPOUT NOZZLE</div><div>E/A - EXHAUST AIR</div><div>EAO - EXHAUST AIR OUTLET</div><div>EAT - ENTERING AIR TEMPERATURE</div><div>EEB - ELECTRIC BASEBOARD HEATER</div><div>ECU - ECOLOGY UNIT</div><div>EDTH - ELECTRIC DUCT HEATER</div><div>EF - EXHAUST FAN</div><div>EJ - EXPANSION JOINT</div><div>EPP - EXCESS PRESSURE PUMP</div><div>ESP - EXTERNAL STATIC PRESSURE</div><div>ESS - EMERGENCY SHOWER & EYE WASH STATION</div><div>ET - EXPANSION TANK</div><div>EUH - ELECTRIC UNIT HEATER</div><div>EW - EMERGENCY EYEWASH STATION</div><div>EWT - ENTERING WATER TEMPERATURE</div><div>FA - FRESH AIR</div><div>FC - FAN COIL UNIT</div><div>FD - FLOOR DRAIN</div><div>FFD - FUNNEL FLOOR DRAIN</div><div>FFH - FORCED AIR HEATER / FORCED FLOW HEATER</div><div>F.F.L. - FINISHED FLOOR LEVEL</div><div>FE - FIRE EXTINGUISHER</div><div>FEC - FIRE EXTINGUISHER CABINET</div><div>FHC - FIRE HOSE CABINET</div><div>FHR - FIRE HOSE REEL</div><div>FHV - FIRE HOSE VALVE</div><div>FHVC - FIRE HOSE VALVE CABINET</div><div>FLX - FLEX. CONNECTOR</div><div>FM - FLUID METER</div><div>F.M.S. - FLOW MEASURING STATION</div><div>FP - FUEL PUMP</div><div>FS - FLOW SWITCH</div><div>FSD - FIRE SMOKE DAMPER</div><div>FTS - FLOAT SWITCH</div><div>F.U. - FIXTURE UNITS</div><div>GEN E/A - GENERAL EXHAUST AIR</div><div>GI - GREASE INTERCEPTOR</div><div>GM - GAS METER</div><div>GV - GRAVITY VENT</div><div>H - HUMIDIFIER</div><div>HB - HOSE BIB</div><div>HC - HEATING COIL</div><div>HD - HUB DRAIN</div><div>HRV - HEAT RECOVERY VENTILATOR</div><div>HT - DOMESTIC HOT WATER HEATER</div><div>HTT - HEAT TRACING</div><div>HST - HOISTING EQUIPMENT</div><div>HW - HOT WATER (DOMESTIC)</div><div>HWR - HOT WATER RETURN</div><div>HWT - HOT WATER TANK</div><div>HX - HEAT EXCHANGER</div><div>IH - INFRARED HEATER</div><div>INV. EL. - INVERT ELEVATION</div><div>JB - JUNCTION BOX</div><div>JS - JANITOR SINK</div><div>KS - KITCHEN SINK</div><div>L - LOUVRE</div><div>LAT - LEAVING AIR TEMPERATURE</div><div>LAV - LAVATORY</div><div>LS - LEVEL SWITCH</div><div>LWT - LEAVING WATER TEMPERATURE</div><div>M - METER</div><div>MD - MOTORIZED DAMPER</div><div>MDA - MOTORIZED DAMPER ACTUATOR</div><div>MS - MOISTURE SEPARATOR</div><div>MUA - MAKE-UP AIR UNIT</div><div>N.C. - NORMALLY CLOSED</div><div>NFGH - NON-FREEZE GROUND HYDRANT</div><div>NFRH - NON-FREEZE HOSE BIBB</div><div>NFRH - NON-FREEZE ROOF HYDRANT</div><div>NFWH - NON-FREEZE WALL HYDRANT</div><div>N.I.C. - NOT IN CONTRACT</div><div>N.O. - NORMALLY OPENED</div><div>O/A - OUTSIDE AIR</div><div>O.B.B. - OPPOSED BLADE BALANCING</div><div>O.E.D. - OPEN ENDED DUCT</div><div>OF - OVERFILL ALARM</div><div>OI - OIL INTERCEPTOR</div><div>P - PUMP</div><div>PBS - PUSH BUTTON STATION</div><div>PHC - PREHEAT COIL</div><div>PP - PISTON PUMP</div><div>PRV - PRESSURE REDUCING VALVE /PRESSURE REGULATING VALVE</div><div>PW - POWER WASHER</div><div>R/A - RETURN AIR</div><div>RC - REFRIGERATION COMPRESSOR OR CHILLER</div><div>RF - RETURN AIR FAN</div><div>RD - ROOF DRAIN</div><div>RHC - REHEAT COIL</div><div>RP - RADIANT PANEL</div><div>RTU - ROOFTOP UNIT</div><div>RV - RELIEF VALVE</div><div>RWL - RAINWATER LEADER</div><div>S - SILENCER</div><div>S/A - SUPPLY AIR</div><div>SAN E/A - SANITARY EXHAUST AIR</div><div>SDM - SMOKE DAMPER</div><div>SDT - SMOKE DETECTOR</div><div>SF - SUPPLY FAN</div><div>SP - SUMP PUMP / SEWAGE PUMP</div><div>SPW - STEAM POWER WASHER</div><div>STP - STANDPIPE</div></div></div></div><div><div><div>FIRST LETTER</div><div>A AIR</div><div>C COMPRESSED GAD</div><div>D DAMPER</div><div>E EQUIPMENT</div><div>G NATURAL GAS</div><div>L LIQUID</div><div>S STEAM</div><div>V VALVE</div><div>M MISCELLANEOUS</div></div><div><div>SECOND LETTER</div><div>A H-O-A STATUS</div><div>C CLOSE</div><div>E VOLTAGE</div><div>F FIRE (ALARM) SMOKE</div><div>FL FLOW</div><div>H HUMIDITY</div><div>I CURRENT</div><div>L LEVEL</div><div>O OPEN</div><div>OL OVERLOAD</div><div>OR OVERRIDE</div><div>P PRESSURE</div><div>SS START / STOP</div><div>ST STATUS</div><div>T TEMPERATURE</div><div>V VELOCITY / SPEED</div><div>WT WINDING TEMPERATURE</div><div>X POSITION</div><div>Y SERIAL COMM'S</div></div><div><div>THIRD LETTER</div><div>H HIGH</div><div>L LOW</div><div>X TRASMITTER</div><div>Z INDICATING TRANSMITTER</div><div>D DIFFERENTIAL</div></div><div><div>FOURTH LETTER</div><div>H HIGH</div><div>L LOW</div></div></div><div><div>BMS POINT NOTE: IF AN INSTRUMENT IS NOT DESIGNATED AS A TRANSMITTER "X" OR AN INDICATING TRANSMITTER "Z", IT IS A SENSOR OR SWITCH, DEPENDING ON POINT TYPE.</div><div><div>XX - YYYY</div><div>POINT FUNCTION ABBREVIATION POINT TYPE</div><div>AI: ANALOG INPUT AO: ANALOG OUTPUT DI: DIGITAL INPUT DO: DIGITAL OUTPUT HW: HARDWIRED SC: SERIAL COMMUNICATION</div><div>e.g. DO - ESS</div><div>START / STOP EQUIPMENT DIGITAL OUTPUT</div></div><div>ABBREVIATIONS</div><div><div>SVC - SPRINKLER VALVE CABINET</div><div>T - TANK</div><div>TAD - TRANSFER AIR DUCT</div><div>TD - TRENCH DRAIN</div><div>TIH - TANK IMMERSION HEATER</div><div>T.O.D. - TOP OF DUCT</div><div>T.O.P. - TOP OF PIPE</div><div>TP - TRAP PRIMER</div><div>TSP - TRAP SEAL PRIMER ASSEMBLY</div><div>TU - TERMINAL UNIT</div><div>TUF - TERMINAL UNIT - FAN</div><div>TW - TRACER WIRE</div><div>TWB - TRACER WIRE JUNCTION BOX</div><div>U.C. - UNDER CUT</div><div>UH - UNIT HEATER</div><div>U/S - UNDER SIDE</div><div>V - VENT</div><div>VAV - VARIABLE AIR VOLUME BOX</div><div>VFD - VARIABLE FREQUENCY DRIVE</div><div>VH - VENTILATOR HOOD</div><div>VP - VACUUM PUMP</div><div>VU - VENTILATING UNIT</div><div>WF - WALL FIN RADIATION</div><div>WJB - WALL JIB</div><div>WM - WATER METER</div><div>WGD - WASTE GLYCOL DRUM</div><div>WOD - WASTE OIL DRUM</div></div><div>CONTROLS - GENERAL SYMBOLS</div><div><div><div>DP</div><div>DIFFERENTIAL PRESSURE SENSOR</div></div><div><div>DEW</div><div>DEW POINT SENSOR & TRANSMITTER</div></div><div><div>T</div><div>THERMOSTAT</div></div><div><div>H</div><div>HUMIDISTAT</div></div><div><div>LS</div><div>LEVEL SWITCH</div></div><div><div>T</div><div>TEMPERATURE SENSOR & TRANSMITTER</div></div><div><div>P</div><div>PRESSURE SENSOR / TRANSMITTER / SWITCH</div></div><div><div>H</div><div>HUMITIDY SENSOR & TRANSMITTER</div></div><div><div>F</div><div>FLOW SENSOR & TRANSMITTER</div></div><div><div>L</div><div>LEVEL SENSOR & TRANSMITTER</div></div><div><div>A</div><div>ANALYTICAL SENSOR OR TRANSMITTER</div></div><div><div>XX:</div><div>CO2 = CARBONE DIOXIDE CO = CARBON MONOXIDE NOx = NITROUS OXIDE O2 = OXYGEN H2 = HYDROGEN AM = AMMONIA PH = PH C = CONDUCTIVITY</div></div><div><div>VOC</div><div>VOLATILE ORGANIC COMPOUND SENSOR & TRANSMITTER</div></div></div></div></div>															

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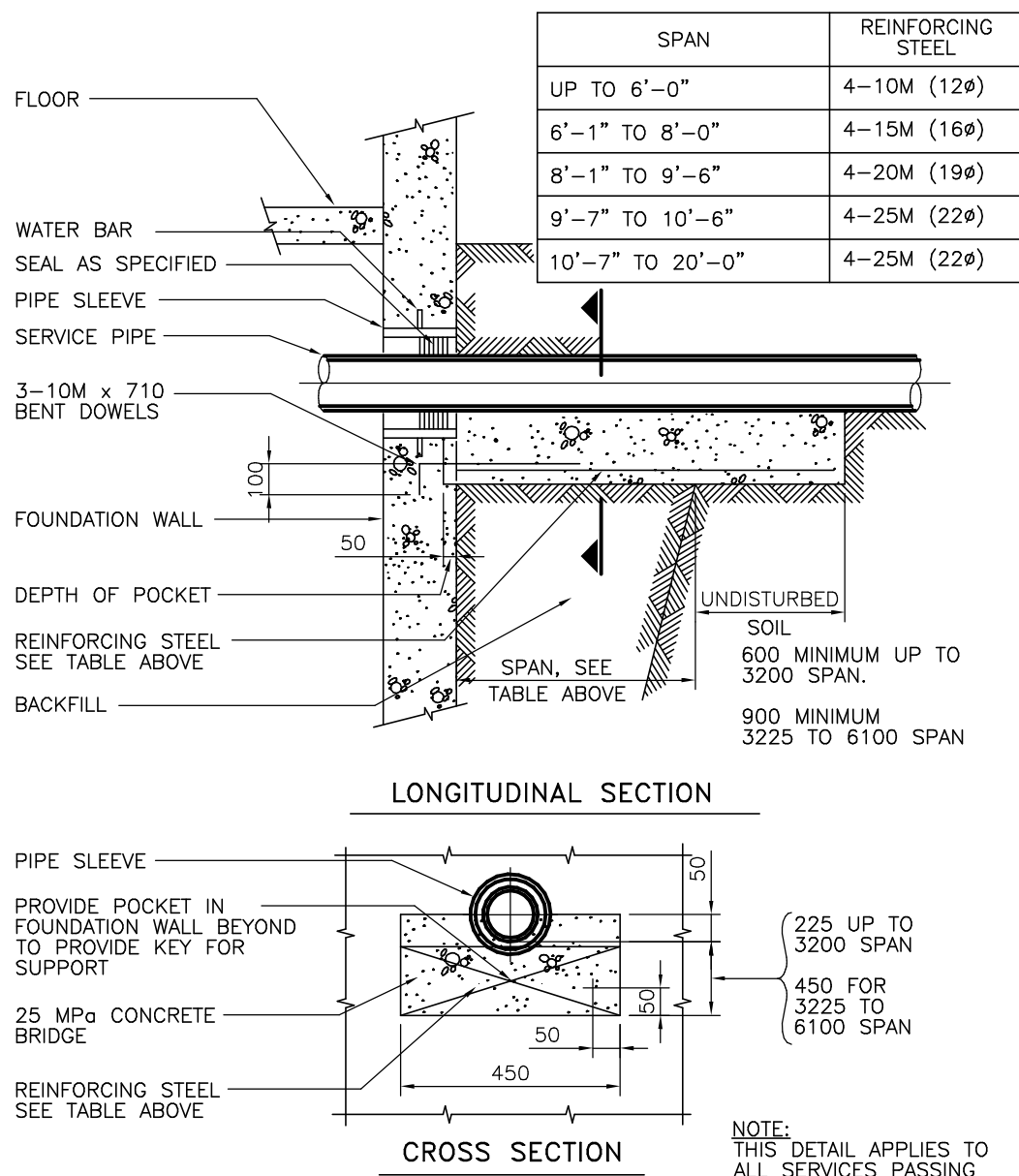
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TORONTO PARAMEDIC SERVICES FLEET
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PROJECT ADDRESS
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1116 KING STREET WEST

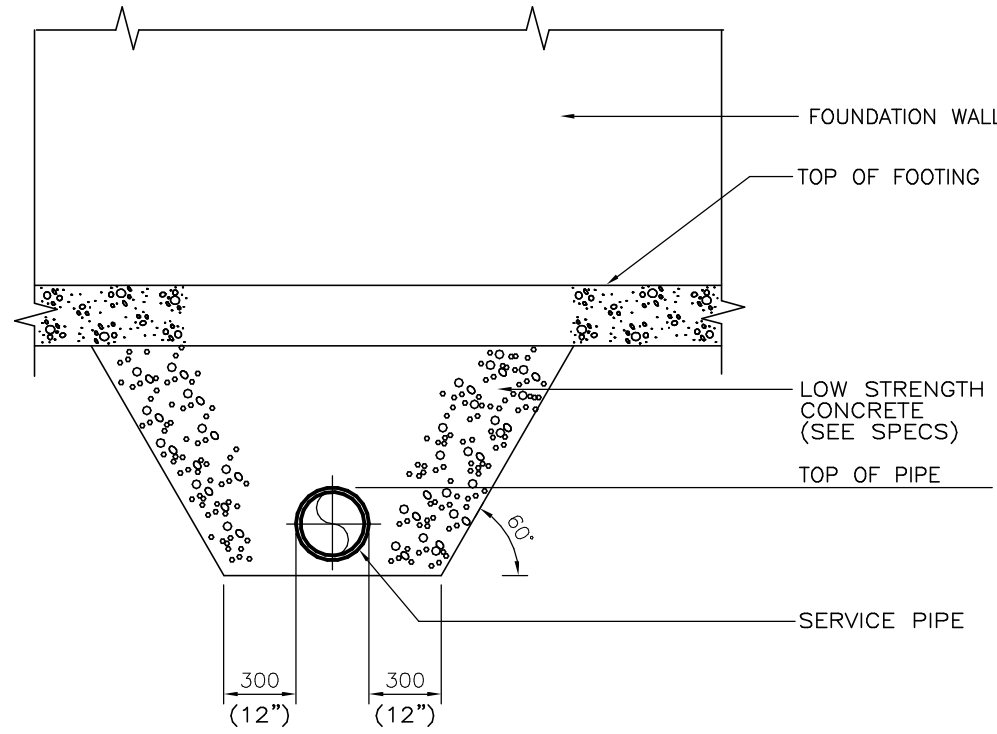
PROJECT NO: 30276606	
DRAWN BY: C. SU	CHECKED BY: K. ALMOHAMED
PROJECT MGR: N. LAYOUN	APPROVED BY: R. BARROSO

SHEET TITLE
MECHANICAL LEGEND 2
OF 2

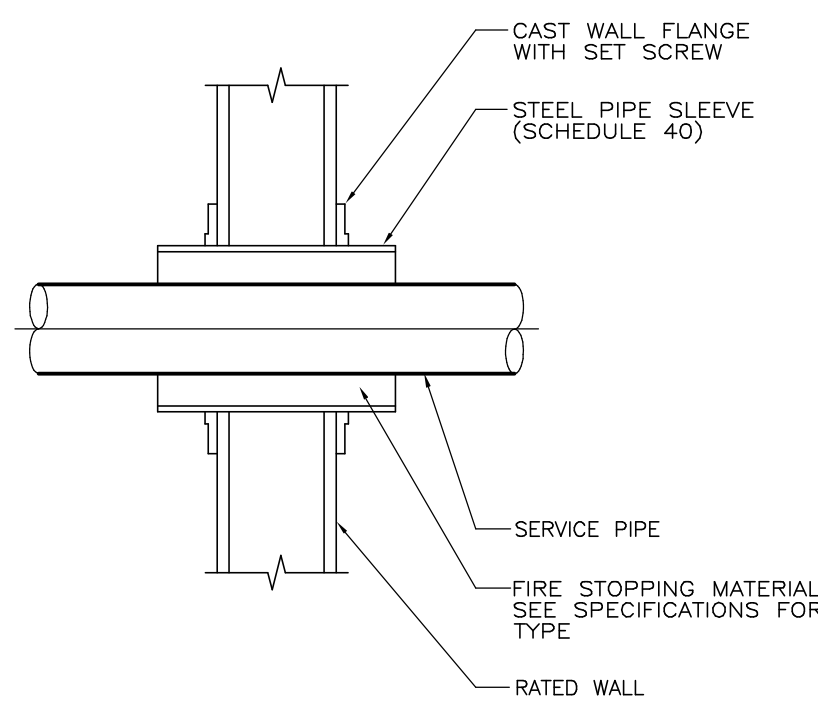
SHEET NUMBER	ISSUE
M0003	G



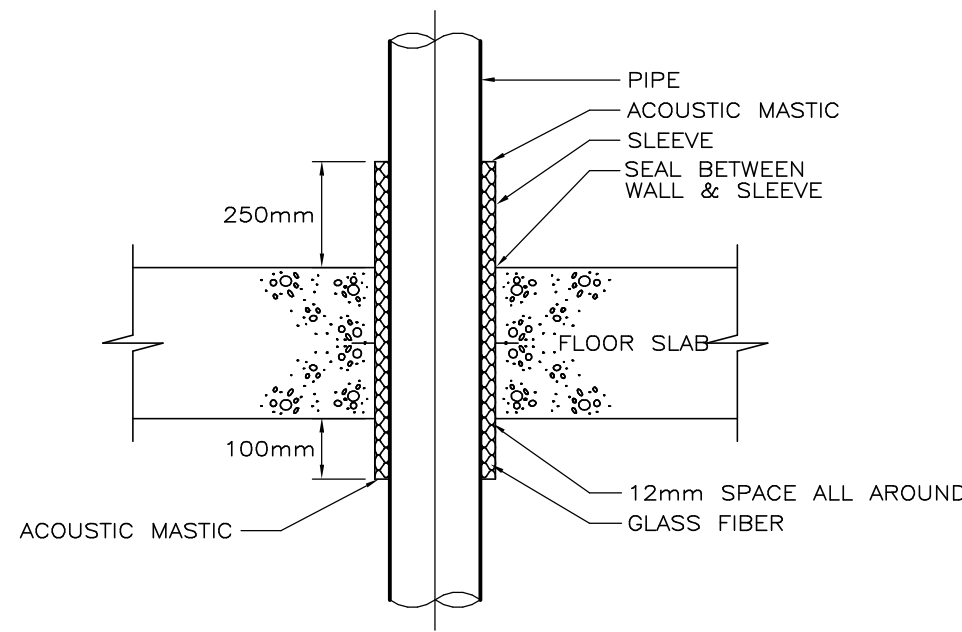
1 PIPE SUPPORT THROUGH FOUNDATION WALL
M0004 Scale: NTS



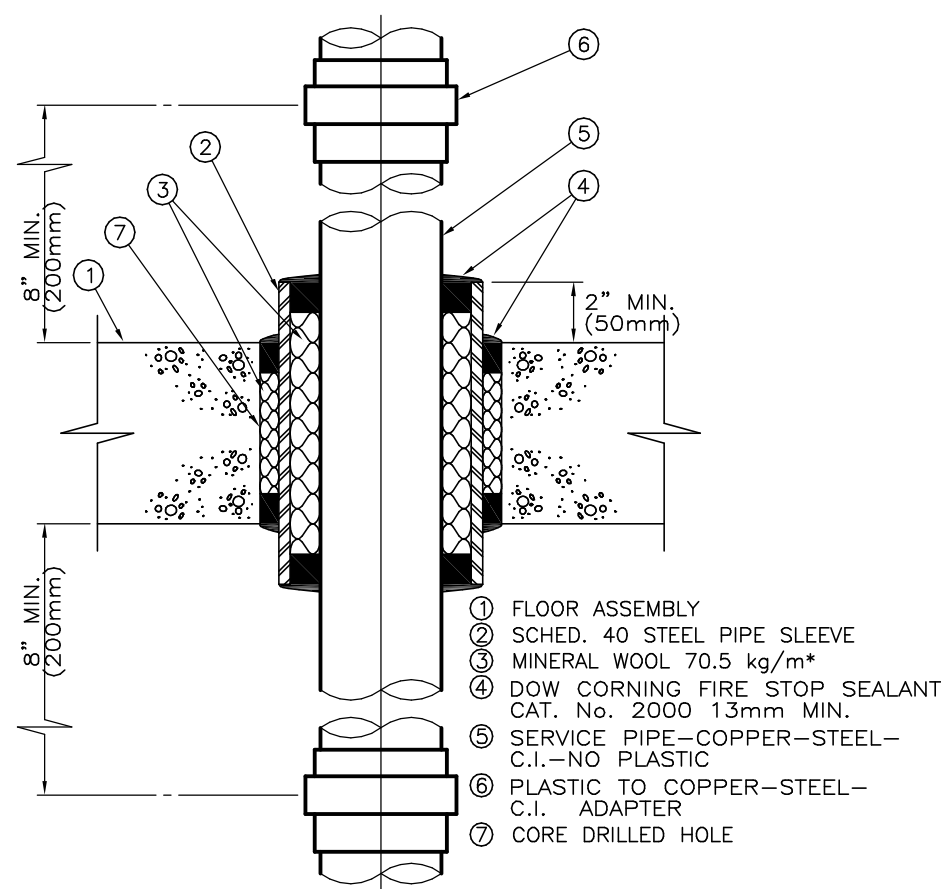
2 PIPING BELOW WALL FOOTING
M0004 Scale: NTS



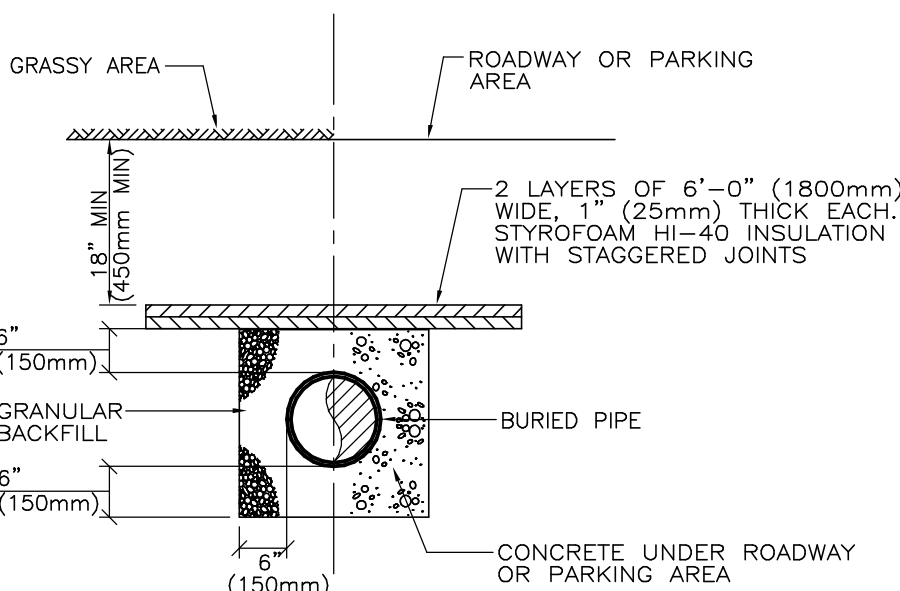
3 SLEEVE THROUGH RATED WALL
M0004 Scale: NTS



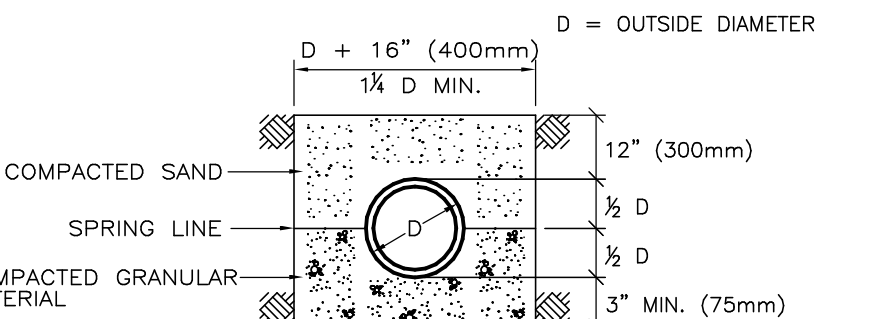
4 ACOUSTIC TREATMENT OF PIPE PENETRATION OF MECHANICAL ROOM FLOOR SLAB
M0004 Scale: NTS



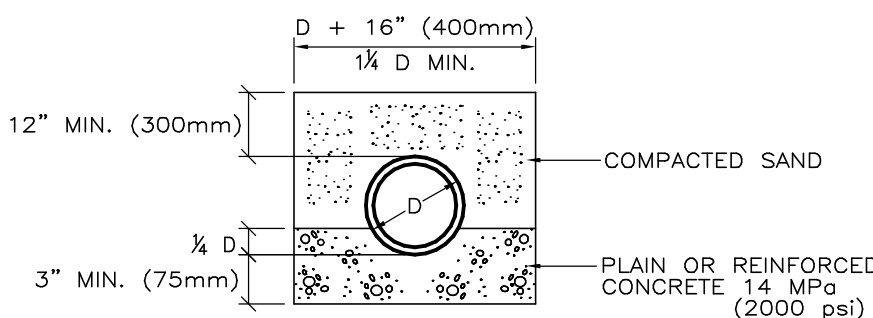
5 PIPE SLEEVE THROUGH FIRE RATED FLOOR SLAB
M0004 Scale: NTS



6 OUTDOOR PIPE INSTALLATION WITH LESS THAN 4'-0" COVER
M0004 Scale: NTS

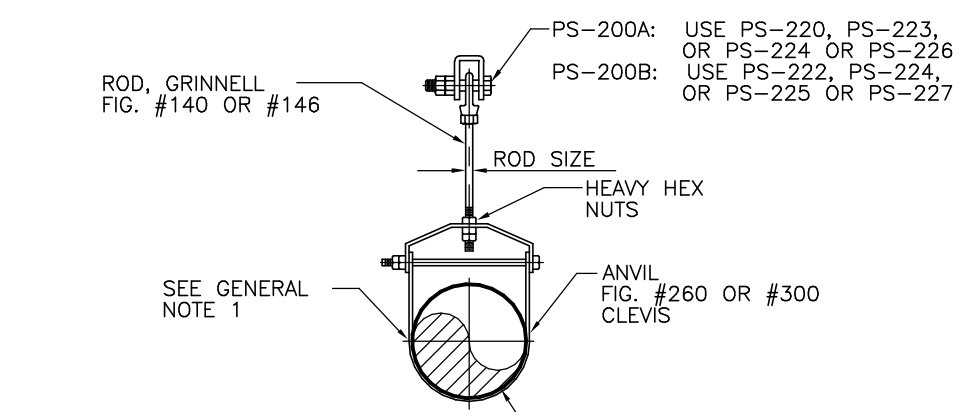


CLASS 'B' - GRANULAR FOUNDATION



CLASS 'A' - CONCRETE CRADLE

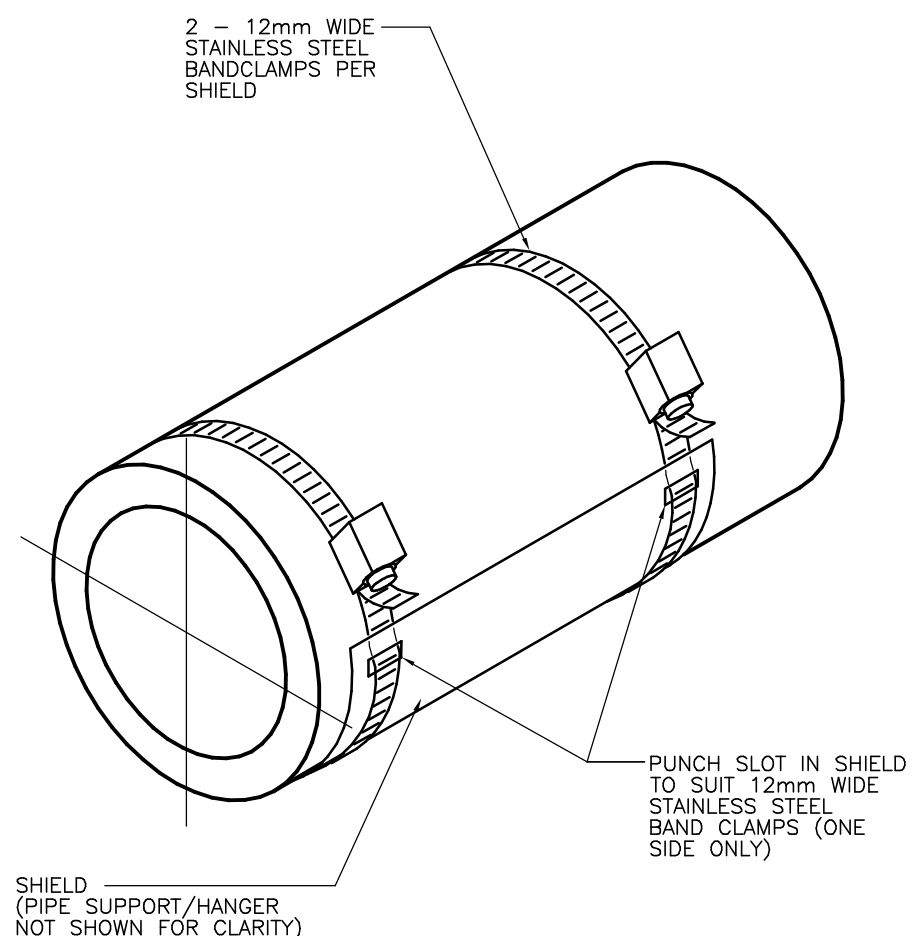
7 CLASS 'A' & 'B' TRENCH BEDDING
M0004 Scale: NTS



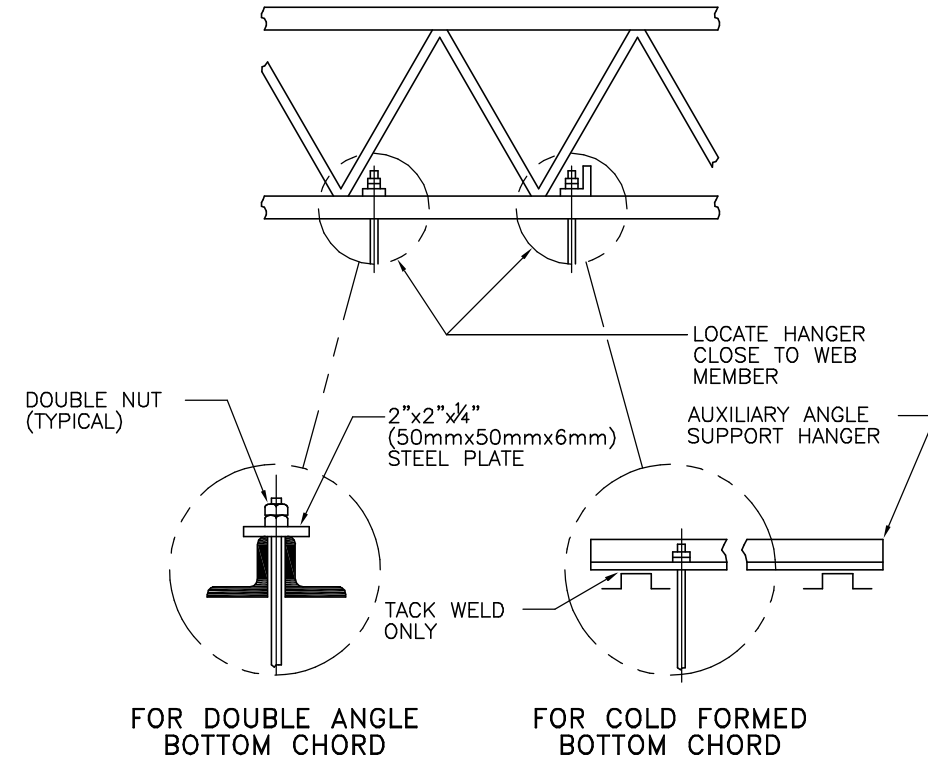
- DETAIL NOTES:
- PS-2008 CAN ONLY BE USED IF THE LINE TEMPERATURE IS LESS THAN 650°F AND FOR LINES ¾" TO 1½" WITH 2" MAXIMUM INSULATION THICKNESS, AND LINES 2" TO 12" WITH 4" MAXIMUM INSULATION THICKNESS.
 - AS AN OPTION, STAINLESS STEEL WEAR PLATE MAY BE WELDED TO CLEVIS, (IF CLEVIS IS NOT GALVANIZED.)

PS-200A NON INSULATED CLEVIS ANVIL FIG. #260		PS-200B INSULATED CLEVIS ANVIL FIG. #300	
LINE SIZE	ROD SIZE	LINE SIZE	ROD SIZE
2½"	½"	2½"	½"
3"	½"	3"	½"
4"	¾"	4"	¾"
6"	¾"	6"	¾"
8"	¾"	8"	¾"
10"	¾"	10"	¾"
12"	¾"	12"	¾"
14"	1"		
16"	1"		
18"	1"		
20"	1¼"		
24"	1¼"		
30"	1¼"		

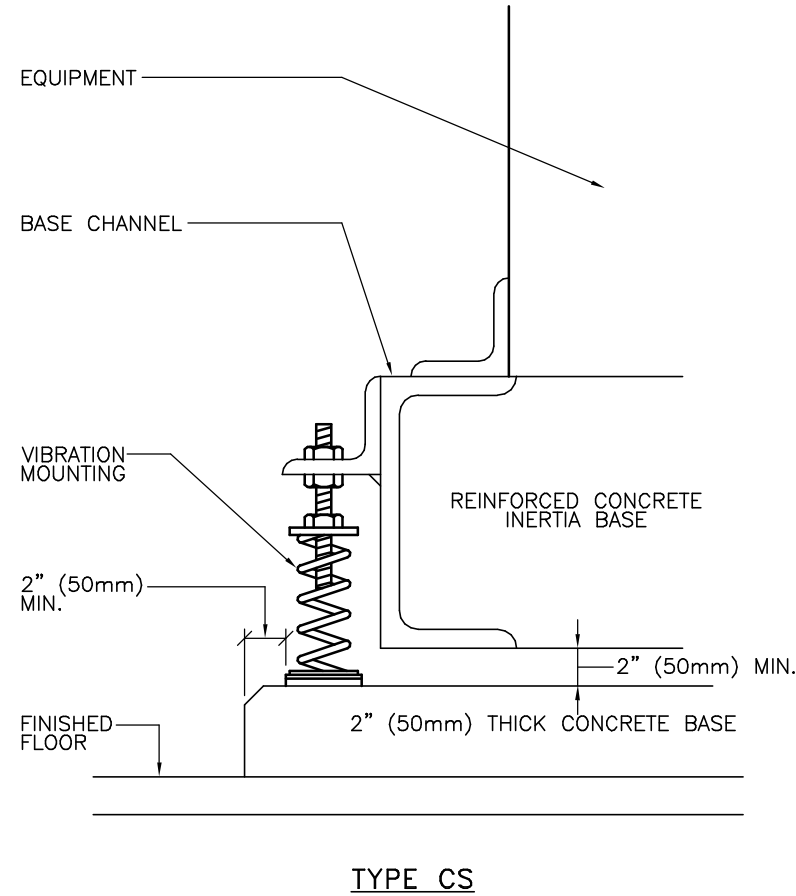
8 PS2 - CLEVIS PIPE SUPPORTS
M0004 Scale: NTS



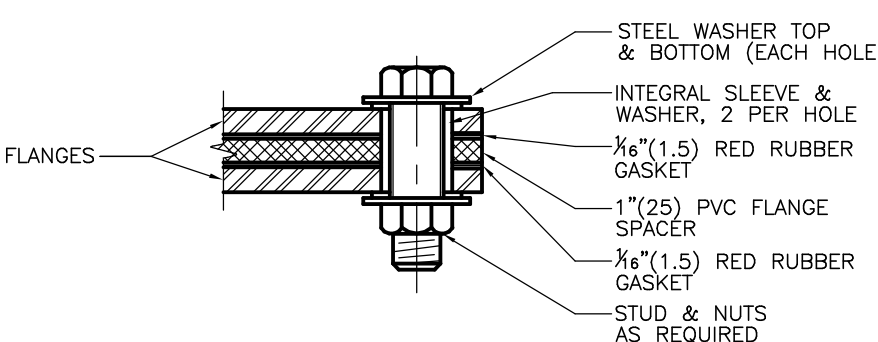
9 INSULATION SHIELD INSTALLATION
M0004 Scale: NTS



10 JOINT STRONG BACK UPPER SUPPORTS
M0004 Scale: NTS



11 SPRING MOUNTS
M0004 Scale: NTS



NOTE:
ISOLATION FLANGE TO BE USED WHERE SITE UNDERGROUND MAINS ARE DUCTILE IRON AND CORROSION PROTECTED ANODES ARE NOT PROVIDED.

12 FLANGE ISOLATION
M0004 Scale: NTS

ISSUES		
No.	DESCRIPTION	DATE
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B	ISSUED FOR 75% REVIEW	2025-11-04
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F	ISSUED FOR TENDER	2025-12-09
G	ISSUED FOR TENDER - REV. 01	2025-12-23

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tel 416 679 1930
www.arcadis.com

PROJECT TITLE
TORONTO PARAMEDIC SERVICES FLEET
MAINTENANCE STATION - UPGRADE
WORKS

PROJECT ADDRESS

**KING STREET YARD -
BUILDING NO. 8 & 9**
1116 KING STREET WEST

PROJECT NO:
30276606

DRAWN BY:
C. SU

CHECKED BY:
K. ALMOHAMED

PROJECT MGR:
N. LAYOUN

APPROVED BY:
R. BARROSO

SHEET TITLE
**MECHANICAL DETAILS 1
OF 5**

SHEET NUMBER

M0004

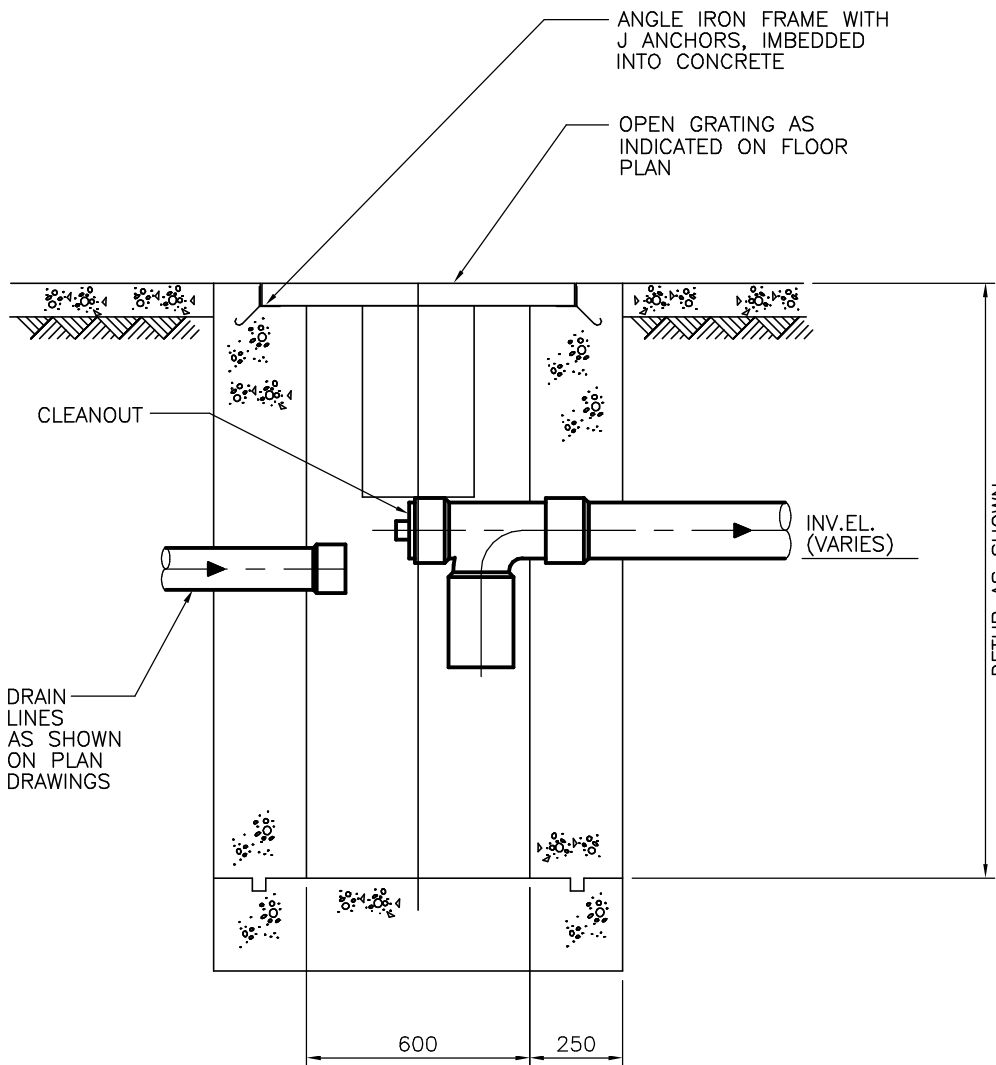
ISSUE

G

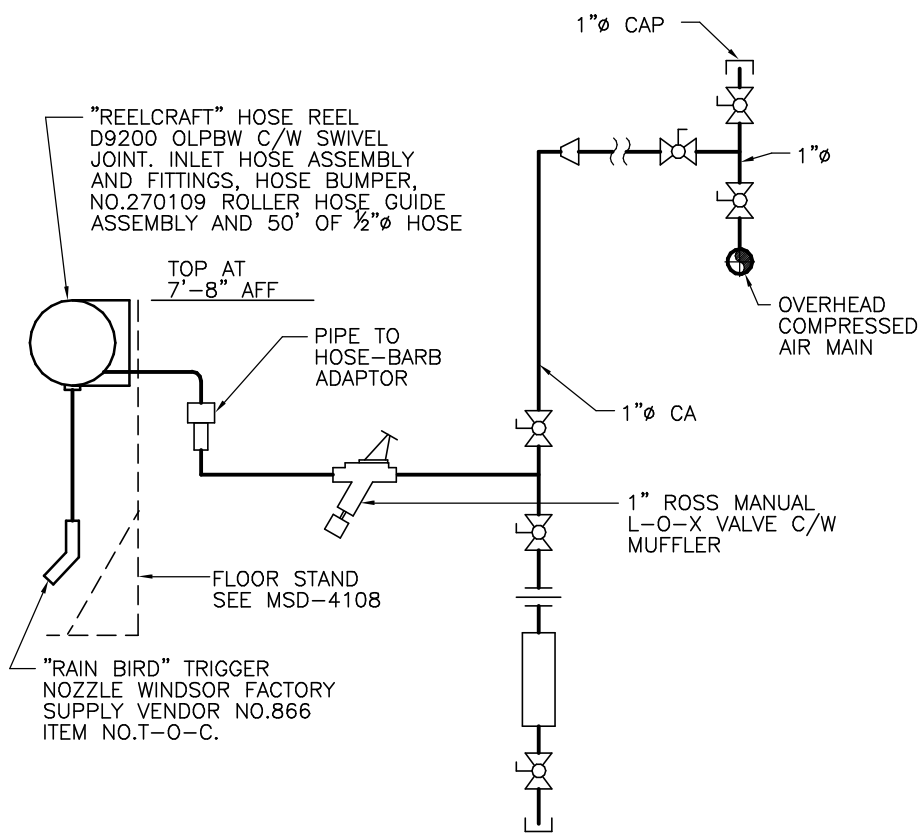
PLUMBING FIXTURE SCHEDULE					
DESCRIPTION	SERVICES				REMARKS
	CW	HW	WASTE	VENT	
WATER CLOSET (FLUSH VALVE)	25	—	75	40	
WATER CLOSET (FLUSH TANK)	12	—	75	40	
URINAL (FLUSH VALVE)	20	—	50	40	
URINAL (FLUSH TANK)	12	—	40	32	
LAVATORY	12	12	32	32	
SHOWER	12	12	75	32	
SERVICE SINK	12	12	75	40	
DRINKING FOUNTAIN	12	—	32	32	
SINKS	12	12	40	32	
GROUP WASH FOUNTAIN	25	25	40	40	

NOTES:
1. SIZING OF SUPPLIES INSIDE WASHROOM TO BE BASED ON 35 KPa PRESSURE DROP PER 30m OF PIPE OR MAXIMUM VELOCITY OF 1.2 mps.
2. CONTRACTOR SHALL PROVIDE SHOP DRAWING OF PLUMBING AND DRAINAGE INSIDE WASHROOM AREA FOR ALL WASHROOMS.

1 PLUMBING FIXTURE SCHEDULE
M0005 Scale: NTS

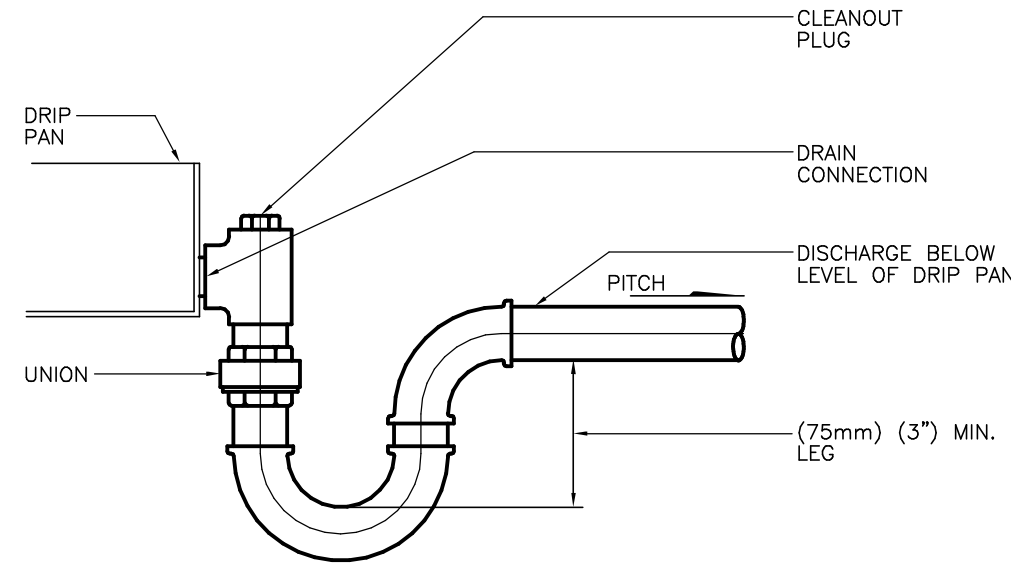


5 PROCESS CATCH BASIN DETAIL NO. 1
M0005 Scale: NTS

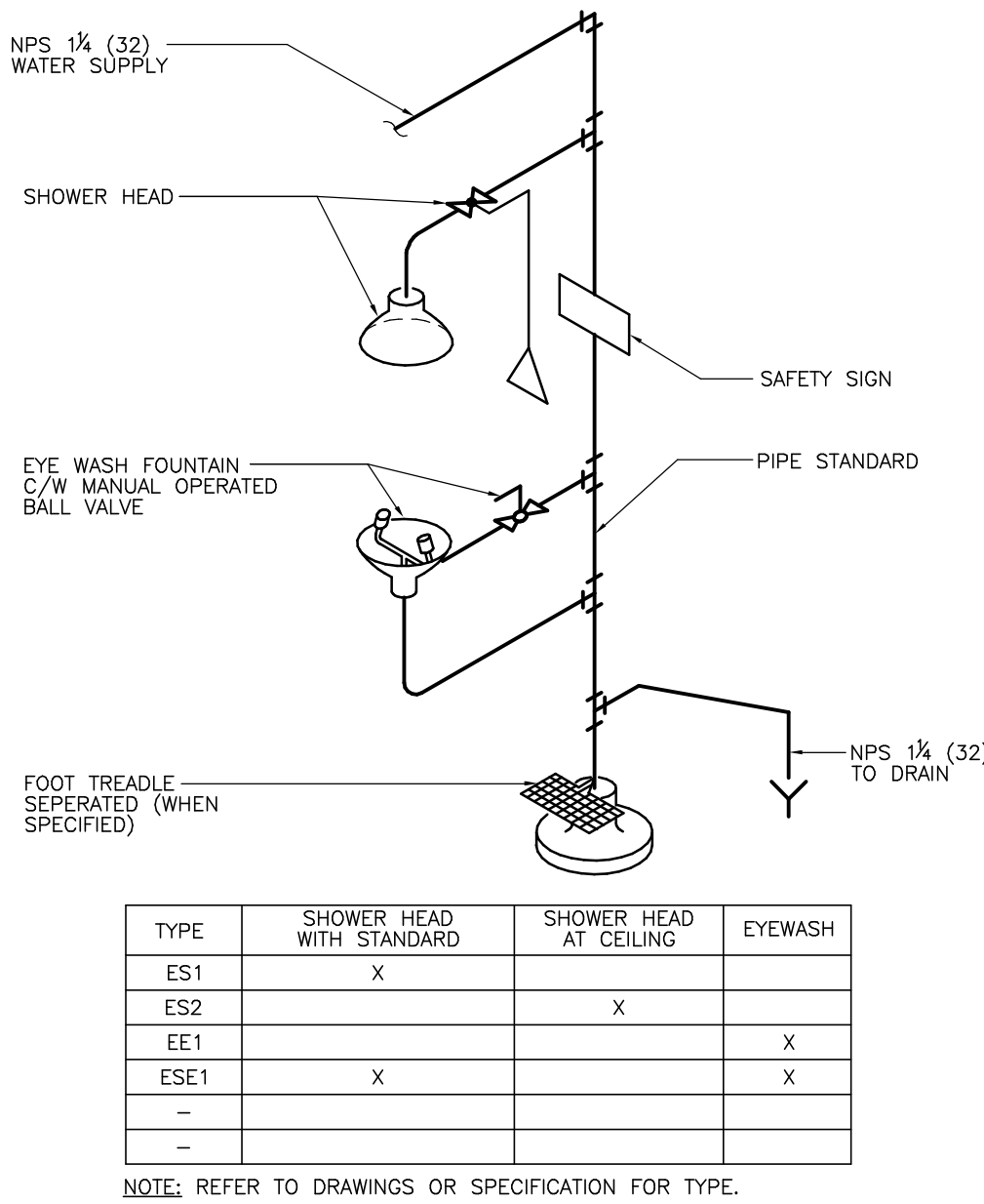


NOTE:
MOUNT HOSE REEL TO COLUMNS OR FLOOR STAND.

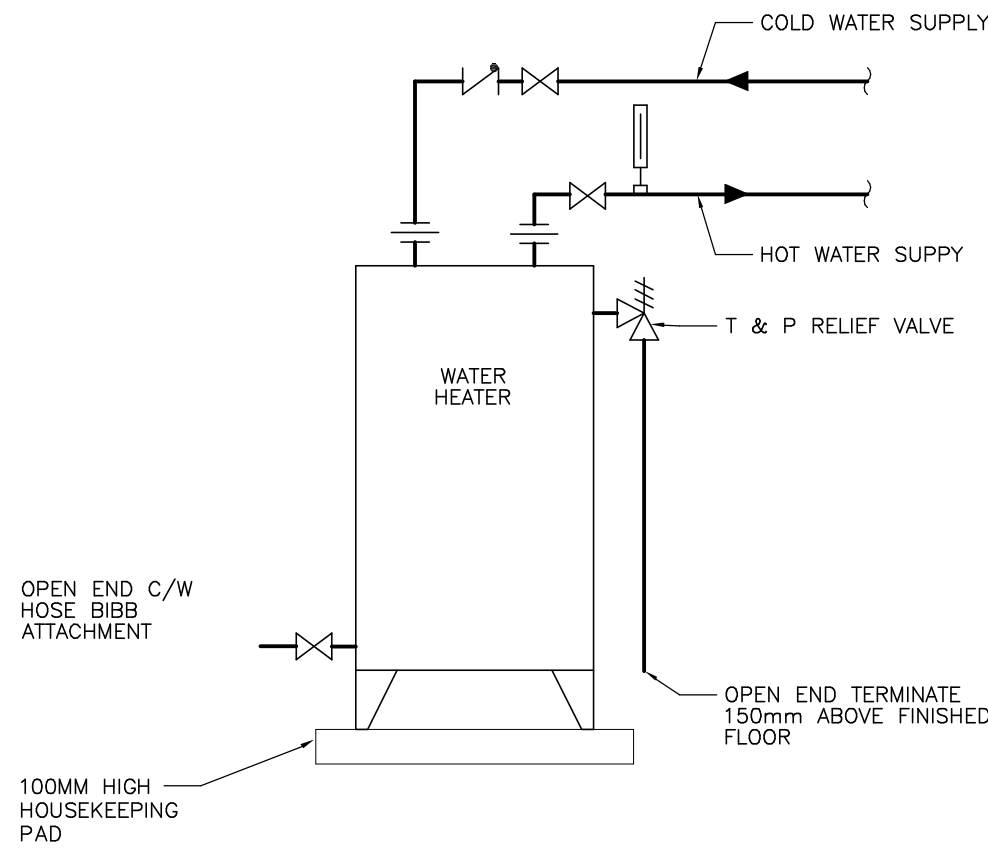
9 COMPRESSED AIR HOSE REEL
M0005 Scale: NTS



2 DRAIN PAN DETAIL
M0005 Scale: NTS

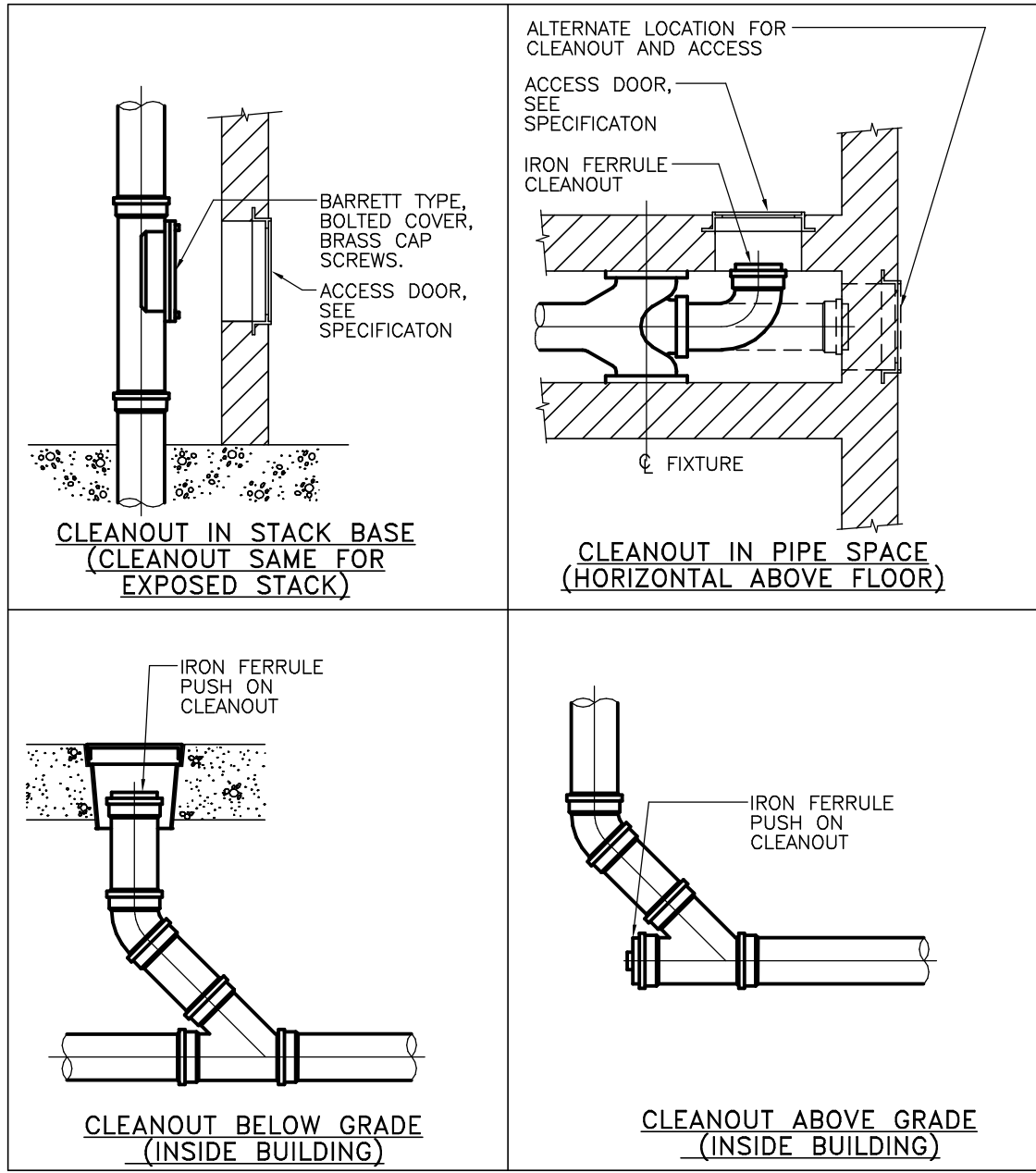


6 SAFETY SHOWER
M0005 Scale: NTS

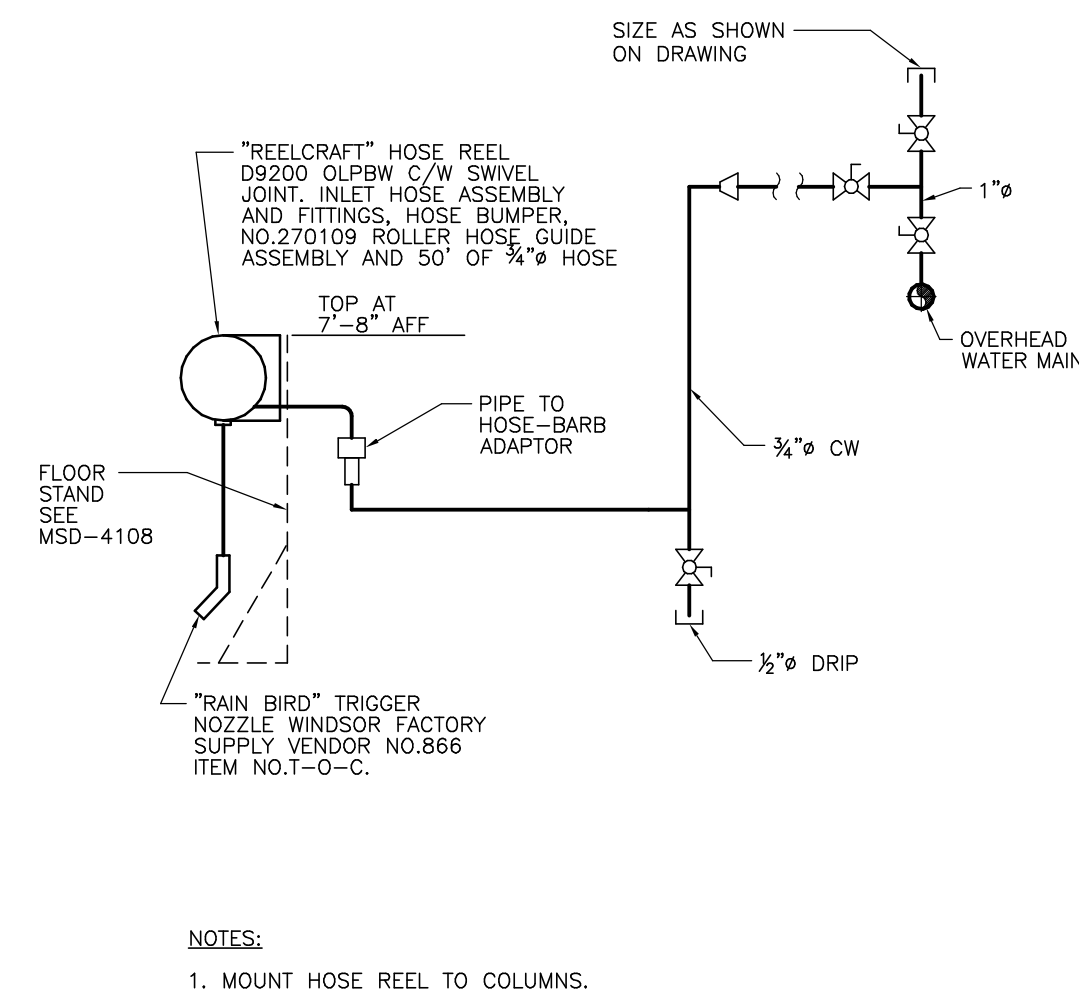


DOMESTIC WATER HEATER ELECTRIC - NO RECIRCULATION

10 Scale: NTS

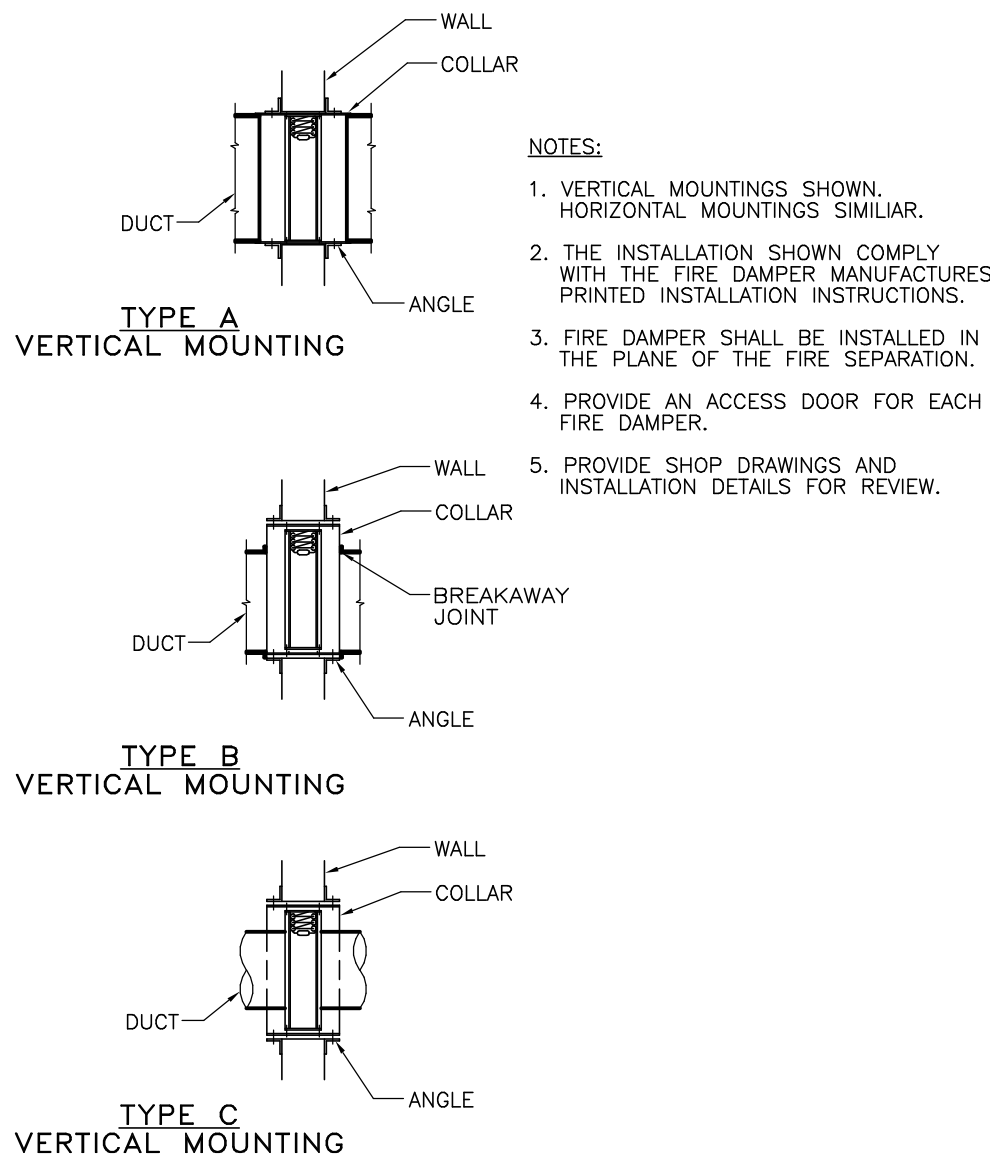


3 DRAINAGE CLEANOUT DETAIL INTERIOR
M0005 Scale: NTS

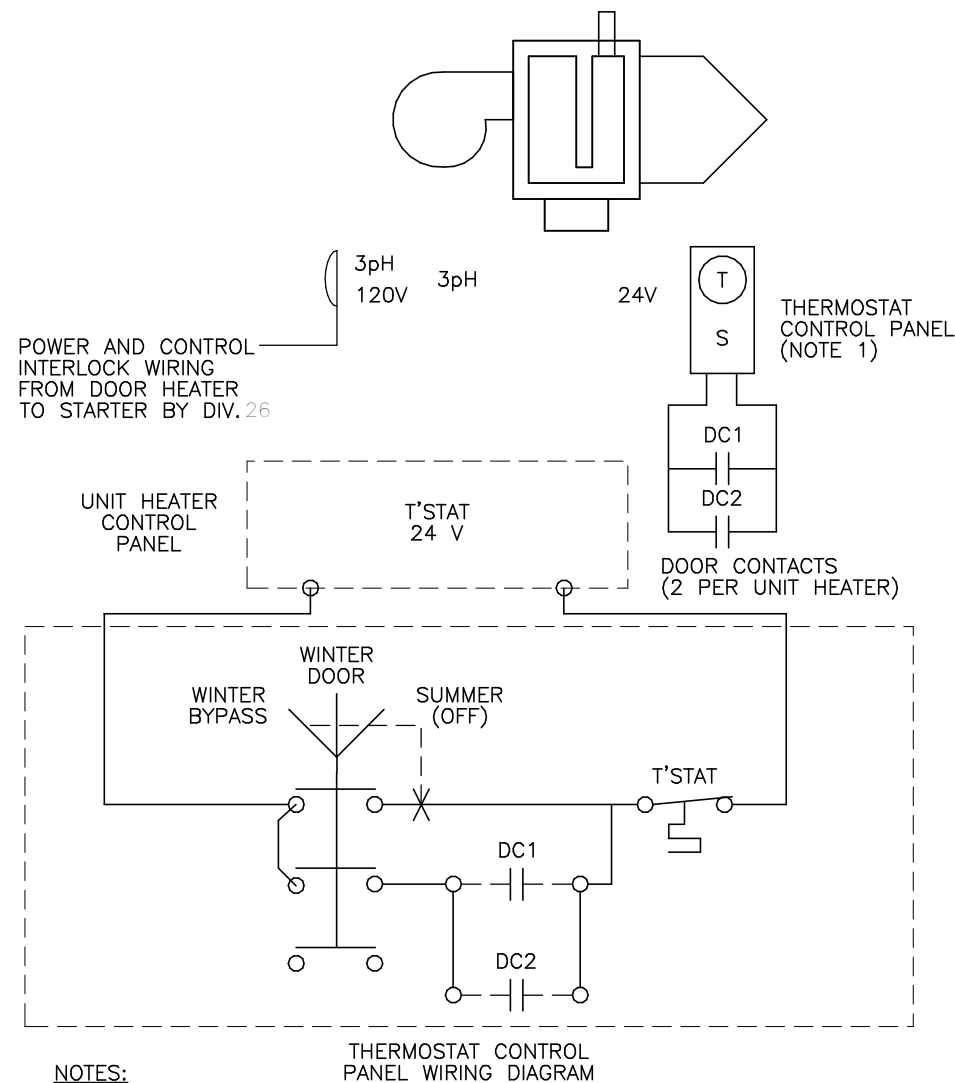


NOTES:
1. MOUNT HOSE REEL TO COLUMNS.

7 WATER HOSE REEL DROP DOMESTIC WATER
M0005 Scale: NTS

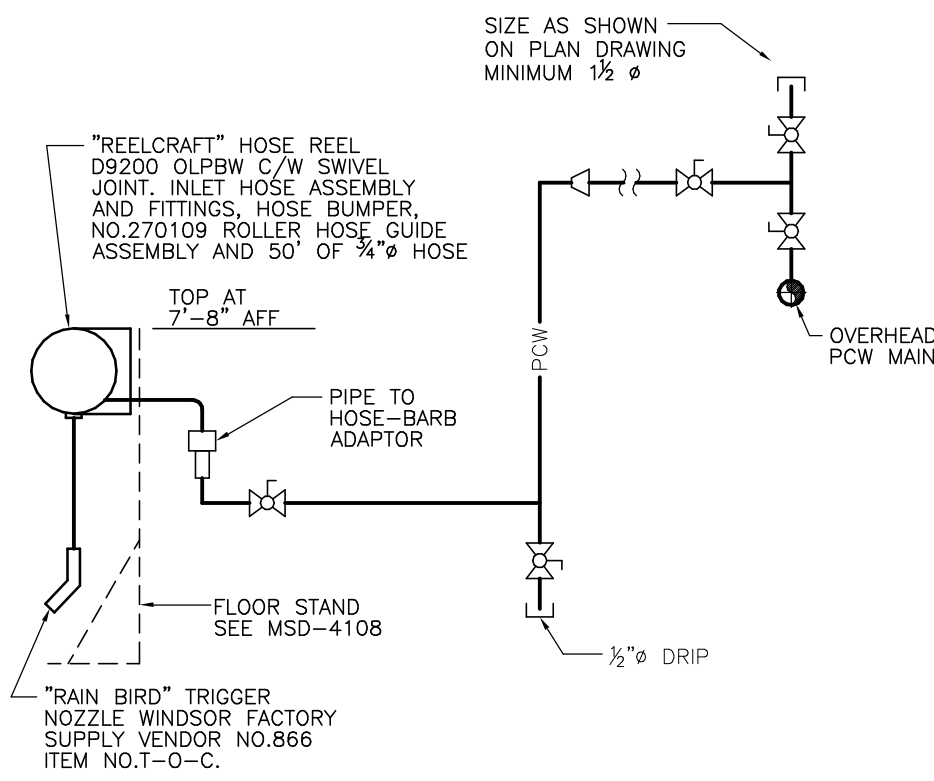


11 FIRE DAMPER MOUNTING
M0005 Scale: NTS



NOTES:
1. PROVIDE A NEMA 12 ENCLOSURE FOR THERMOSTAT CONTROL PANEL. SIZED TO ACCOMMODATE SELECTOR SWITCH AND THERMOSTAT MOUNTED ON PANEL FACE. MOUNT CONTROL PANEL ON WALL BETWEEN EACH PAIR OF DOORS.
2. DOOR CONTACT SWITCHES DC1 AND DC2 ARE PROVIDED UNDER SEPARATE CONTRACT AS PART OF THE DOOR CONTROL SYSTEM. CONNECT TO N.O. CONTACTS IN EACH DOOR CONTROL PANEL TO MONITOR WHEN DOOR IS OPEN.

4 DOOR HEATER W/ DOOR INTERLOCK
M0005 Scale: NTS



NOTES:
1. MOUNT HOSE REEL TO COLUMNS OR FLOOR STAND.

8 WATER HOSE REEL DROP NON-POTABLE WATER
M0005 Scale: NTS

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G	ISSUED FOR TENDER - REV.	2025-12-23
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C. SU

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PROJECT MGR:
N. LAYOUN

APPROVED BY:
R. BARROSO

SHEET TITLE

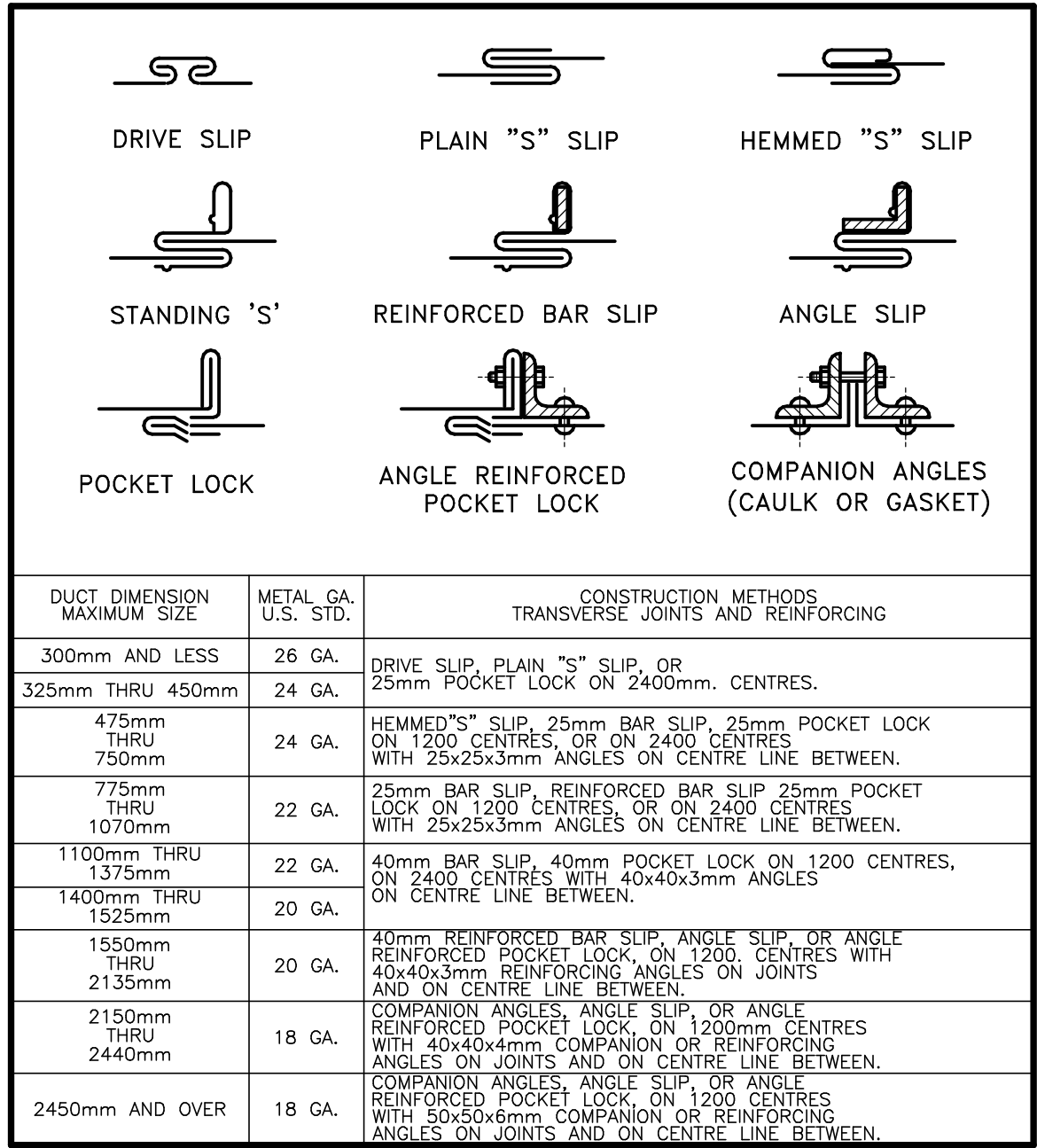
MECHANICAL DETAILS 2
OF 5

SHEET NUMBER

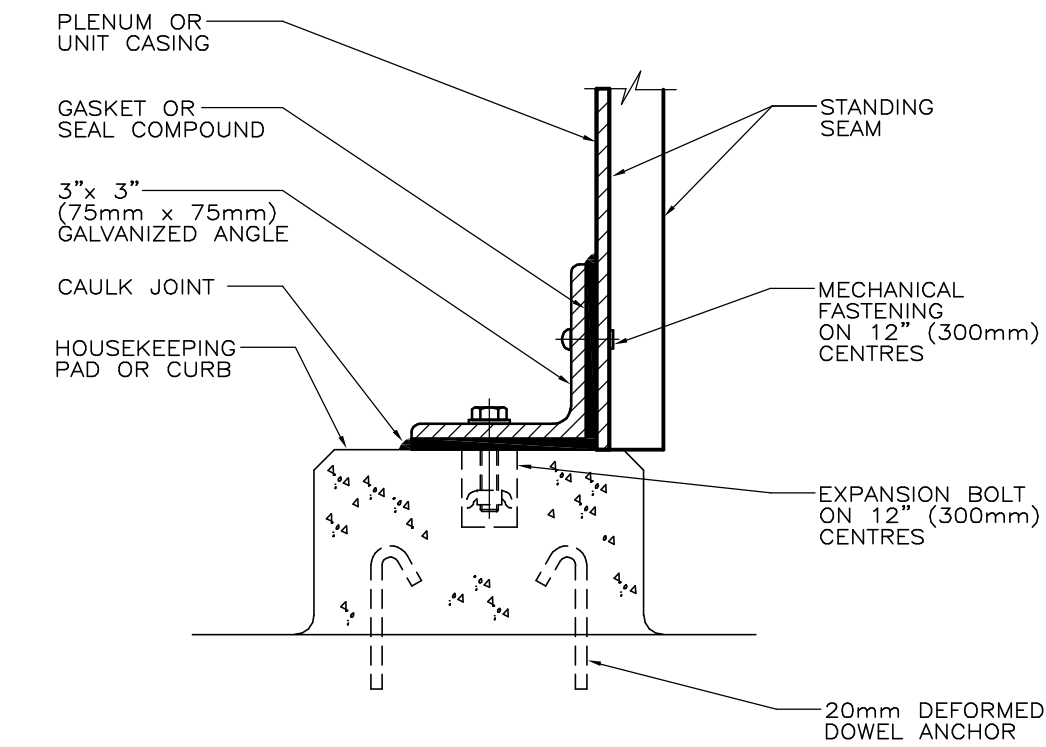
M0005

ISSUE

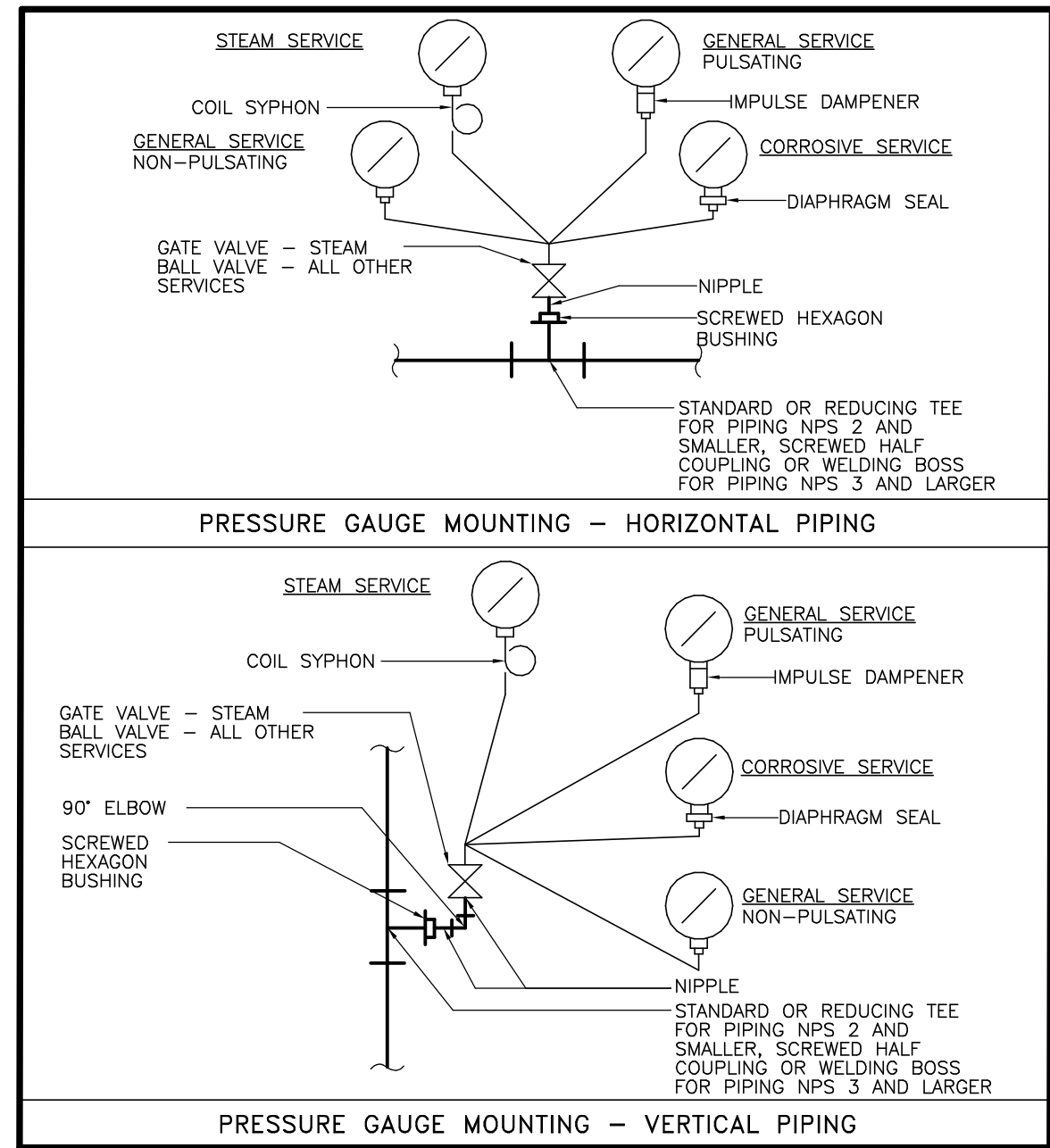
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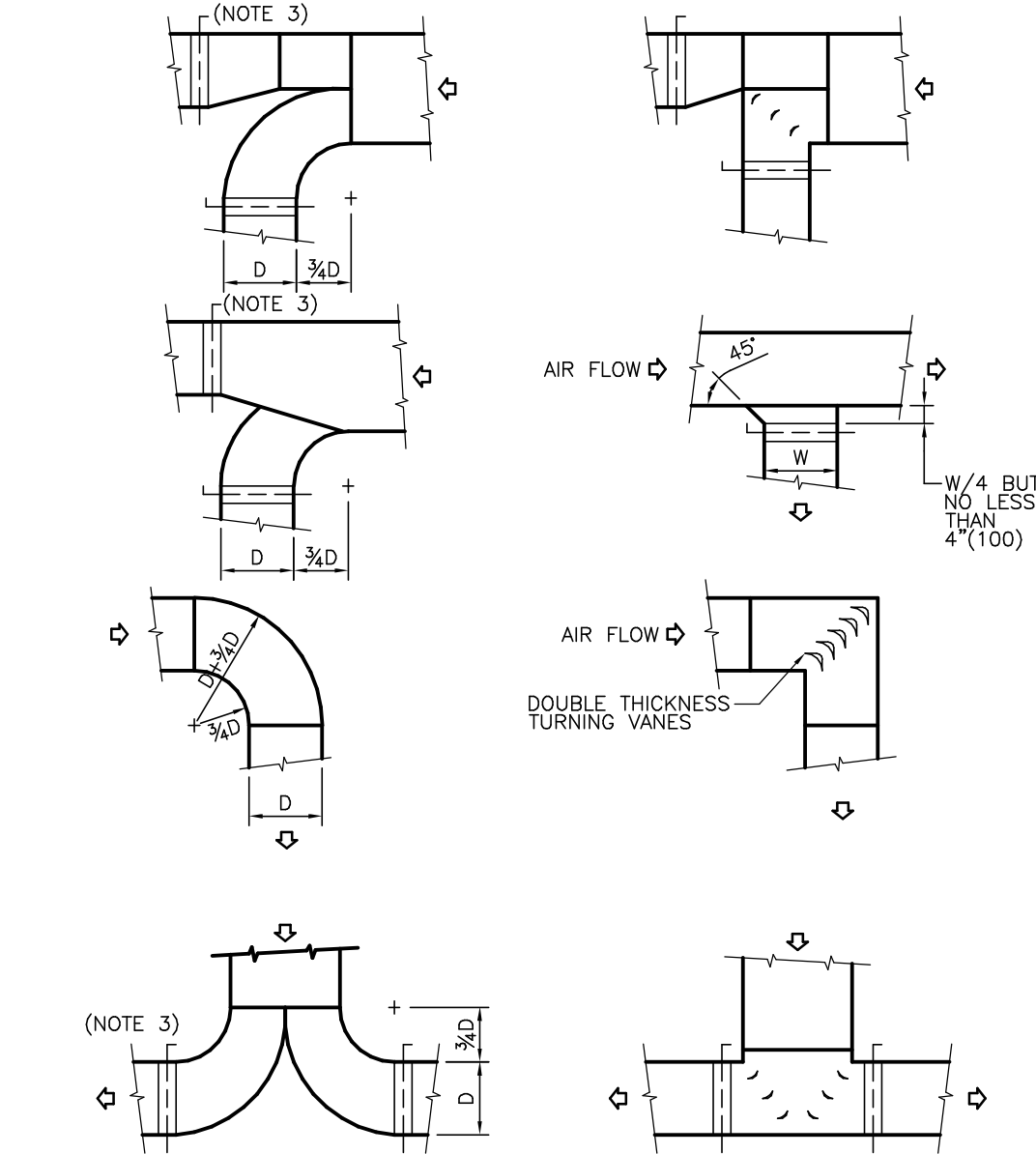
1 RECTANGULAR DUCT CONSTRUCTION LOW PRESSURE
M0006 Scale: NTS



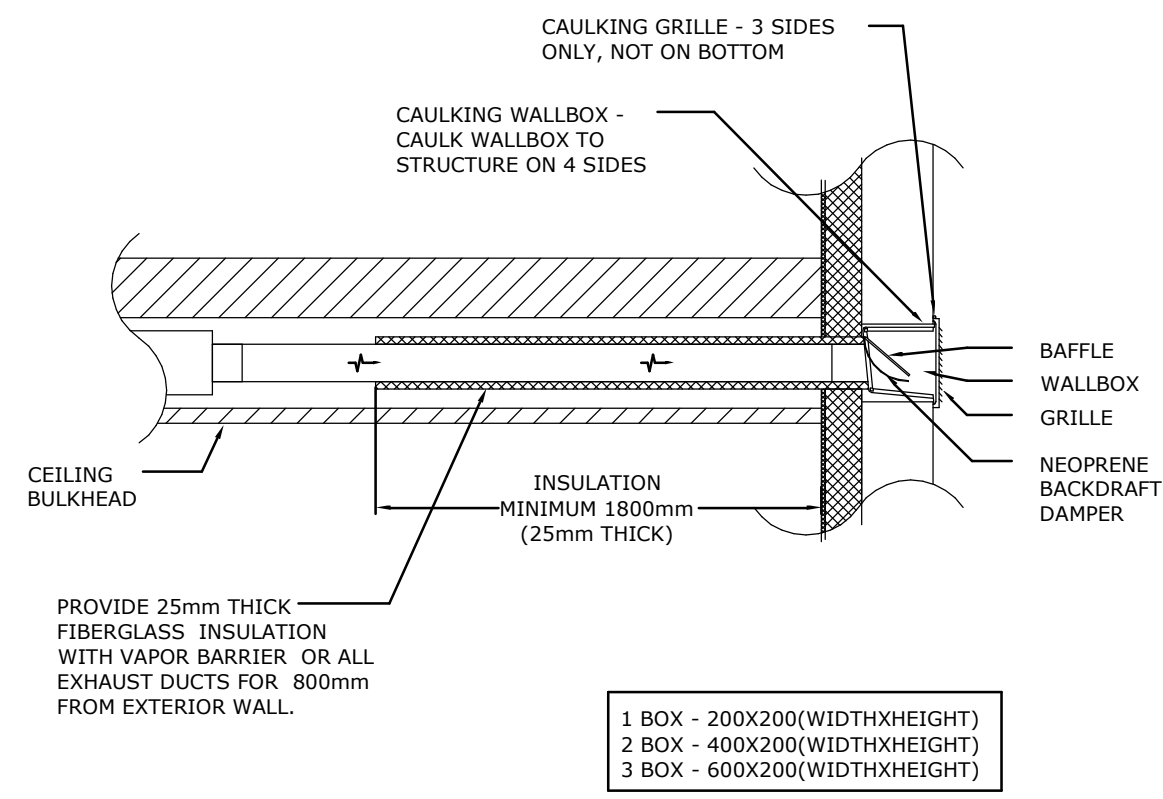
5 CASING OR PLENUM SUPPORT
M0006 Scale: NTS



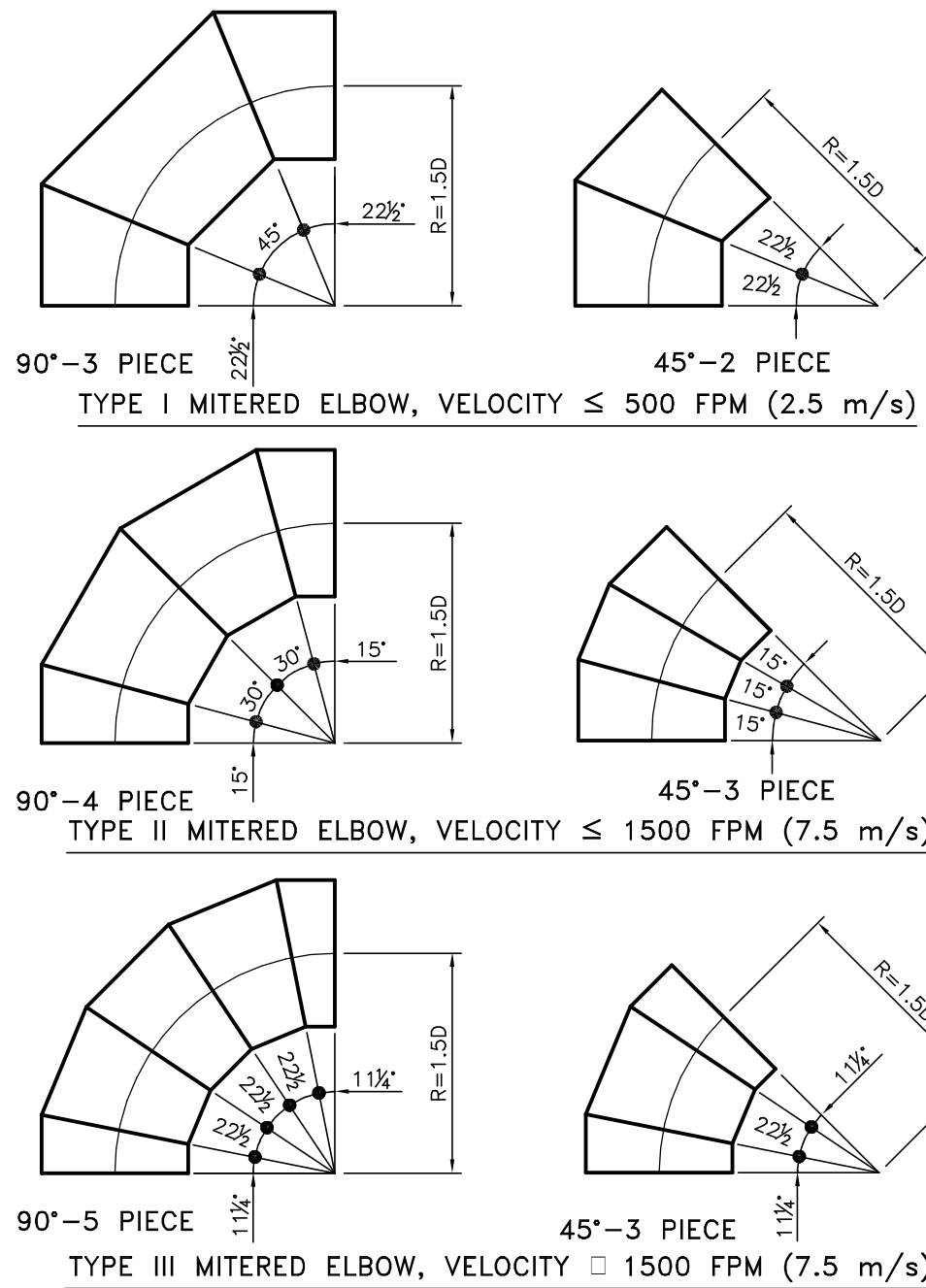
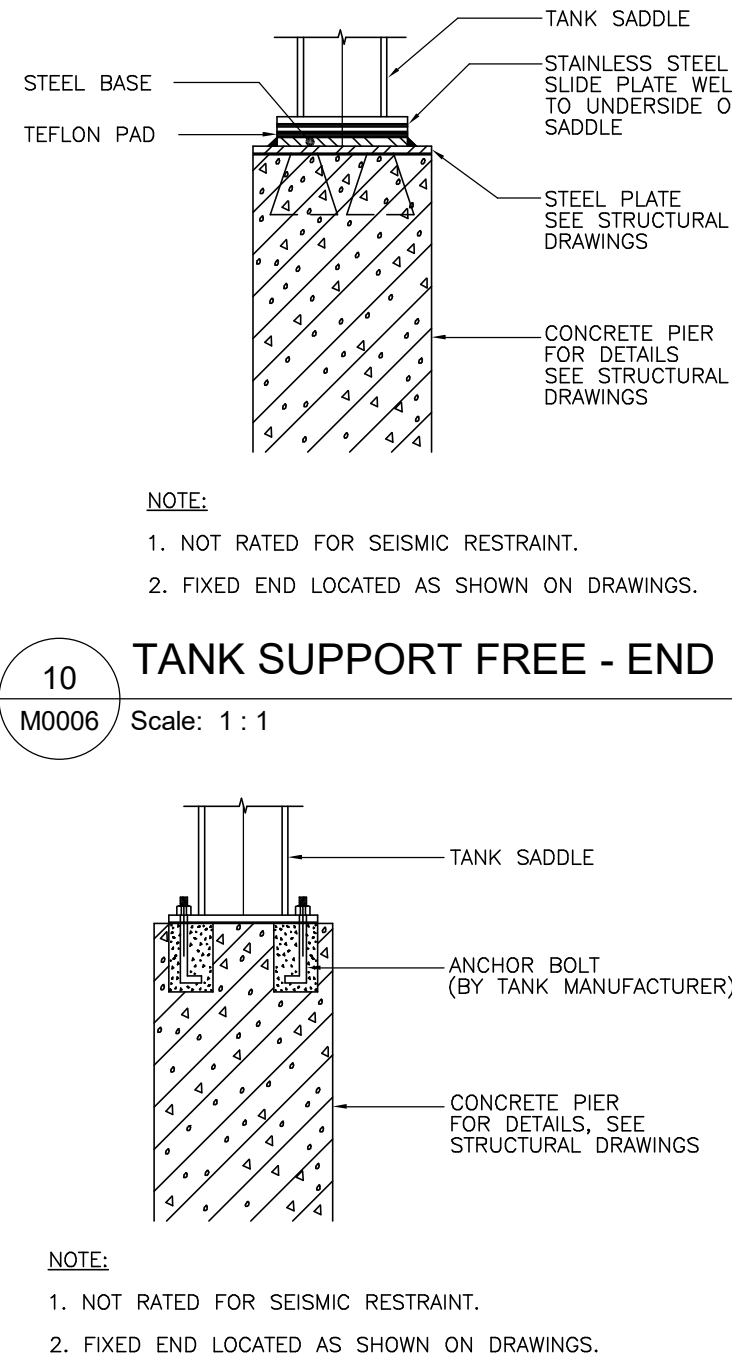
9 PRESSURE GAUGES
M0006 Scale: NTS



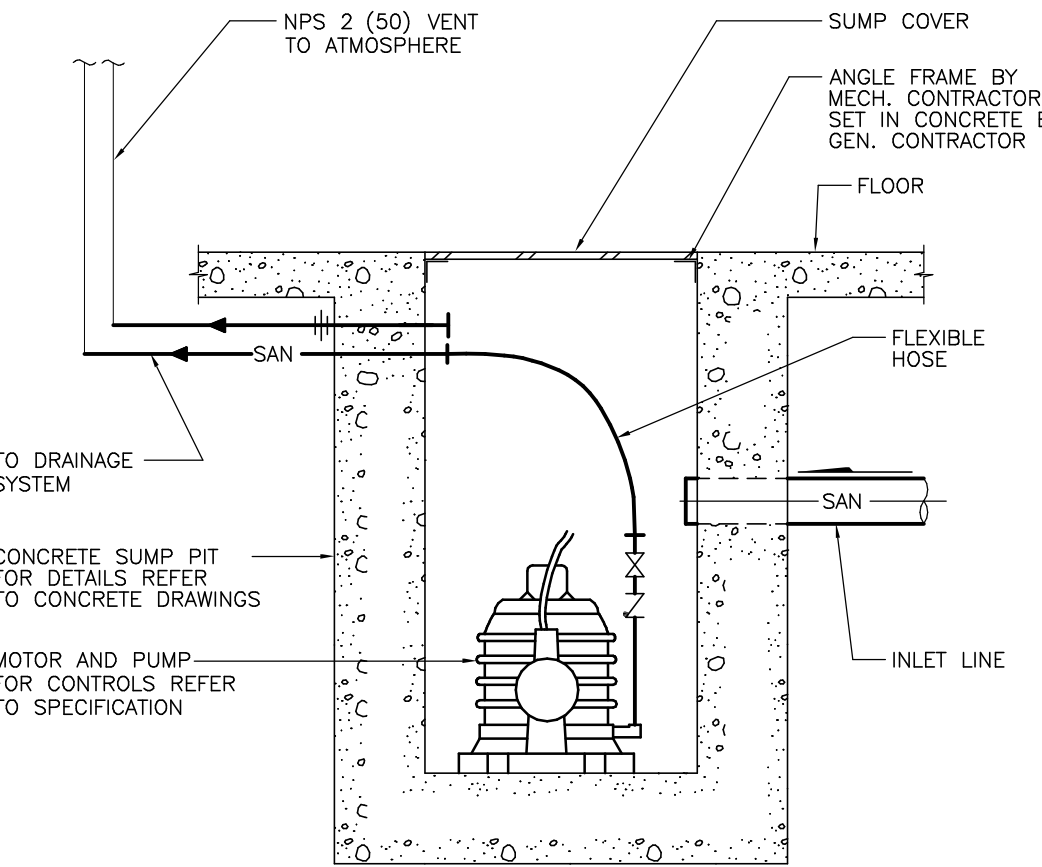
2 LOW PRESSURE SUPPLY AND RETURN AIR DUCT TAKE - OFFS
M0006 Scale: NTS



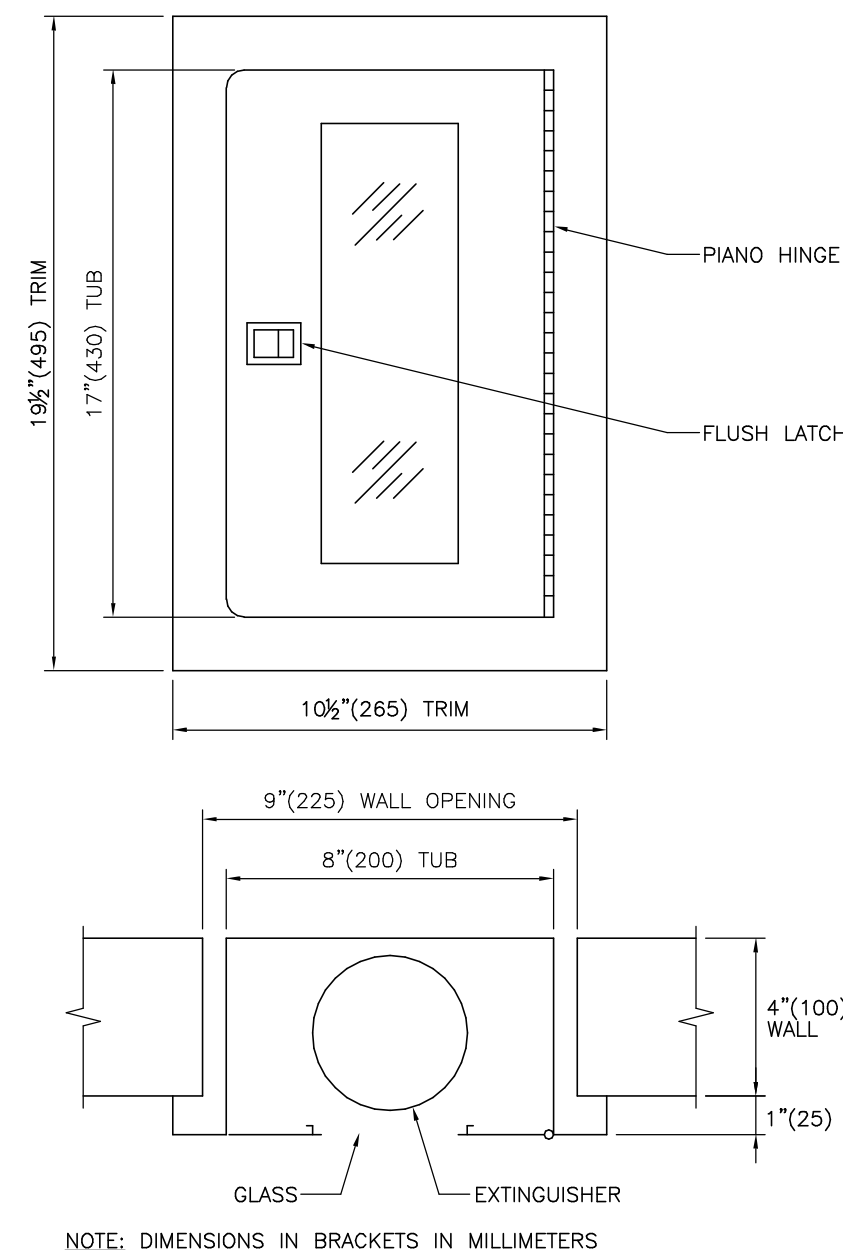
6 WALL BOX INSTALLATION DETAIL
M0006 Scale: NTS



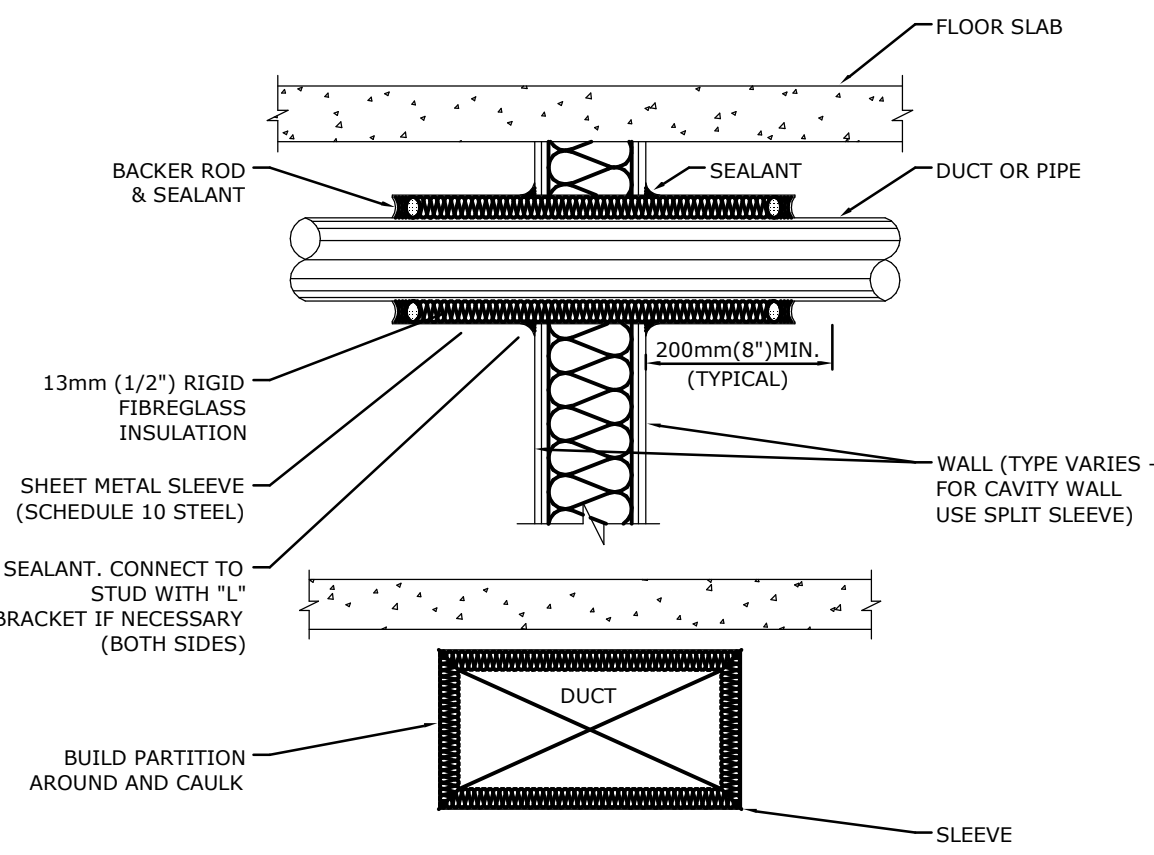
3 MITERED ELBOW DETAILS
M0006 Scale: NTS



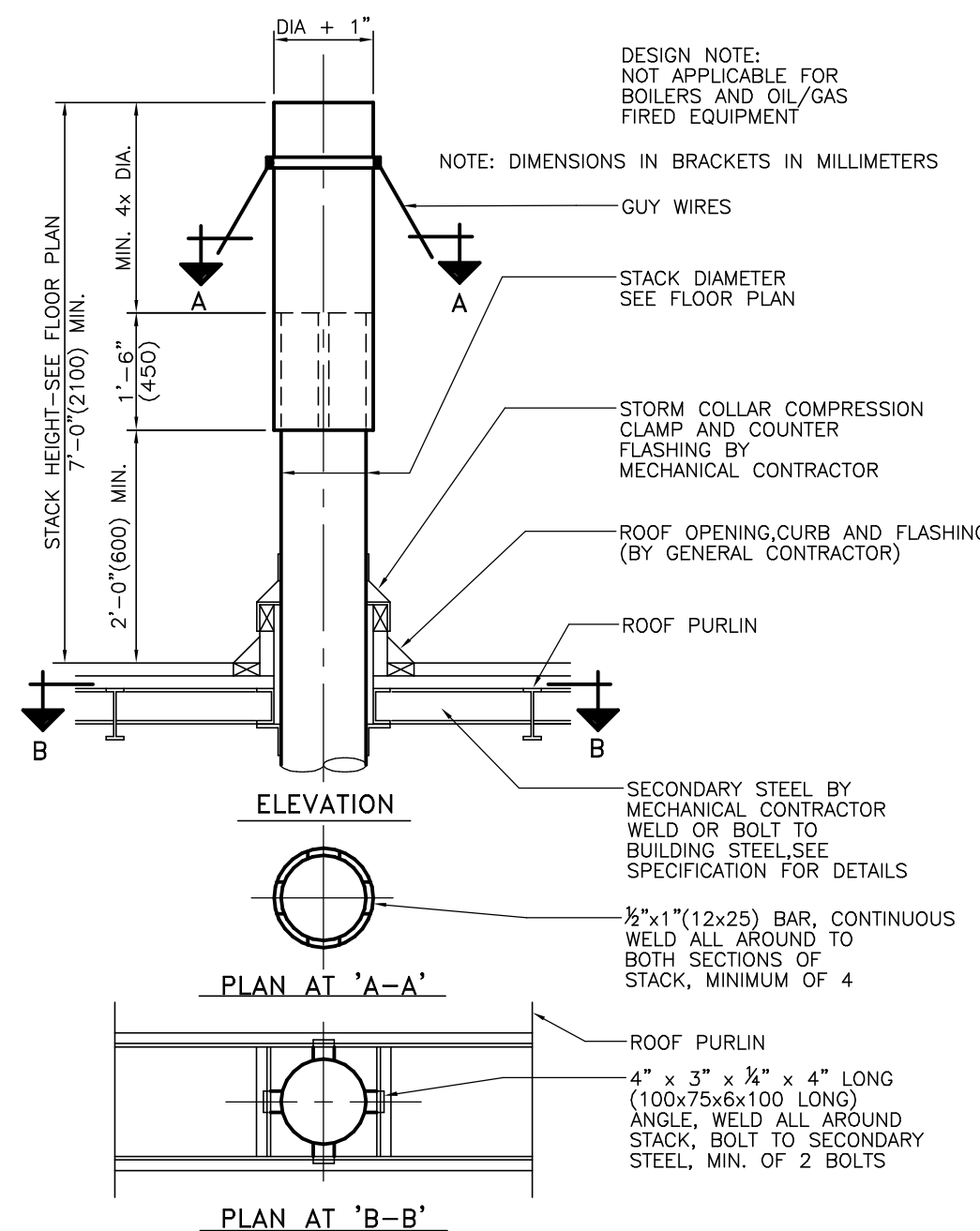
7 SUBMERSIBLE SEWAGE PUMP DISCHARGE BELOW FLOOR
M0006 Scale: NTS



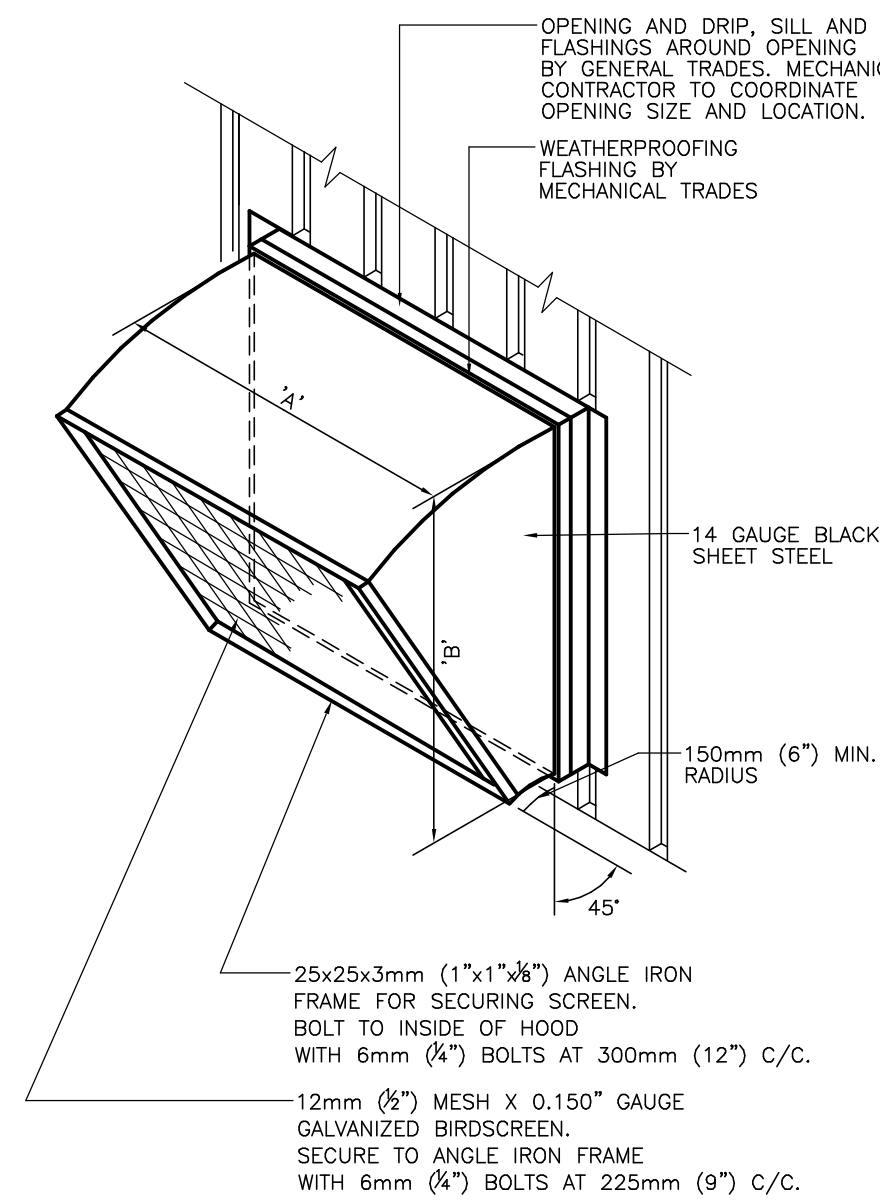
4 EXTINGUISHER CABINET
M0006 Scale: NTS



8 PIPE AND DUCT PENETRATION DETAIL
M0006 Scale: NTS



12 EXHAUST STACK DETAIL TYPE AT - 5
M0006 Scale: NTS



13 FRESH AIR INTAKE AND EXHAUST HOOD - WALL TYPE
M0006 Scale: NTS

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PROJECT MGR:
N. LAYOUN

APPROVED BY:
R. BARROSO

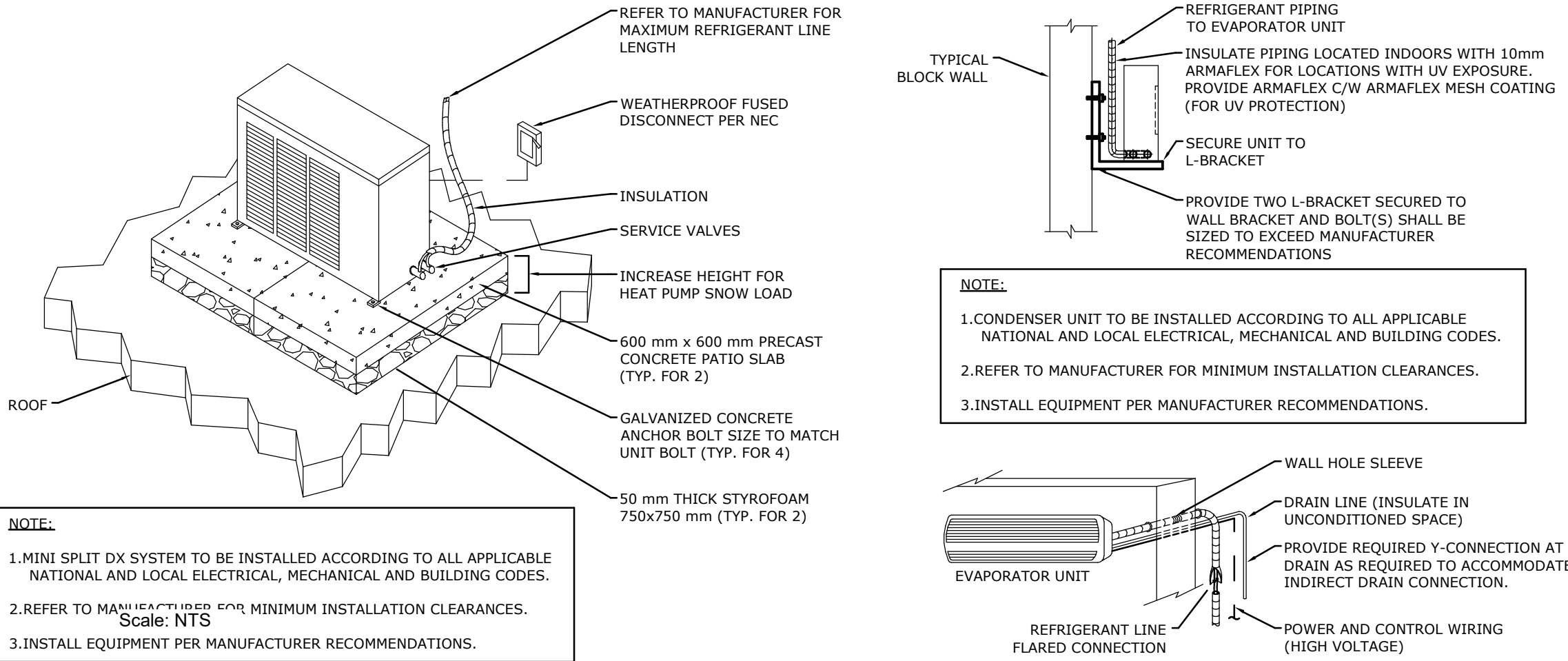
SHEET TITLE
MECHANICAL DETAILS 3
OF 5

SHEET NUMBER

M0006

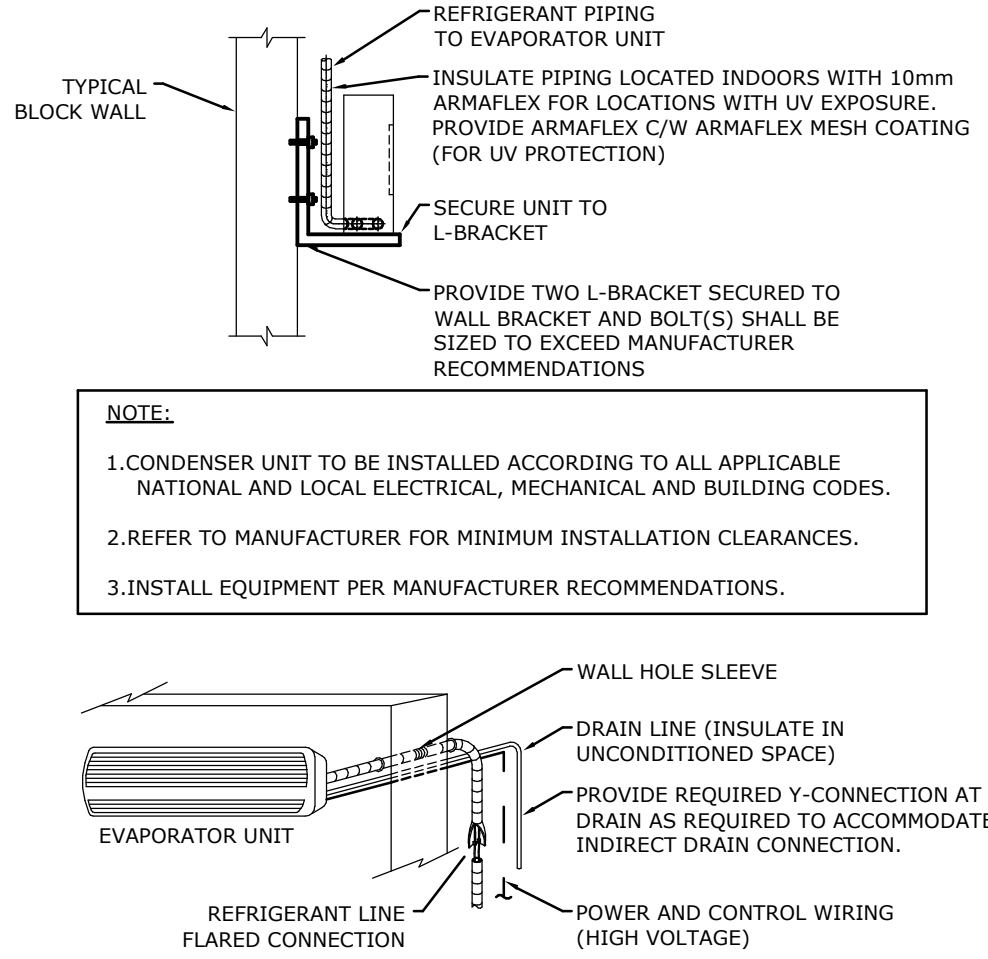
ISSUE

G



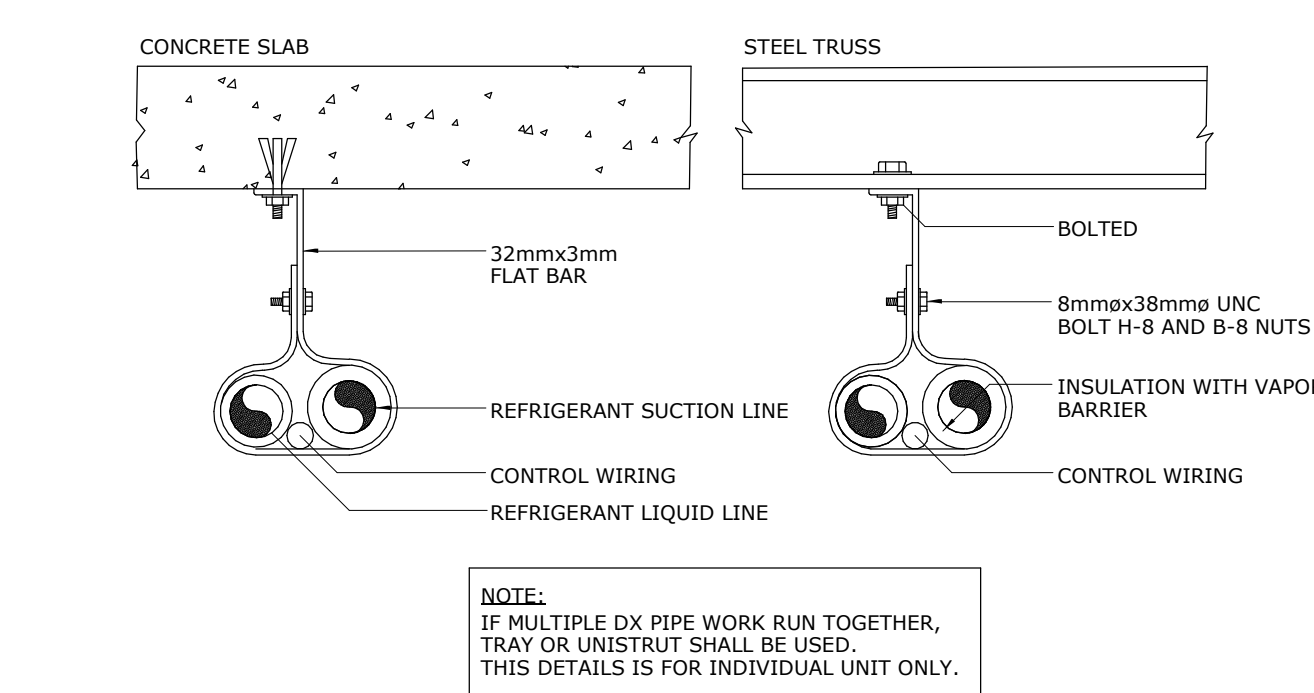
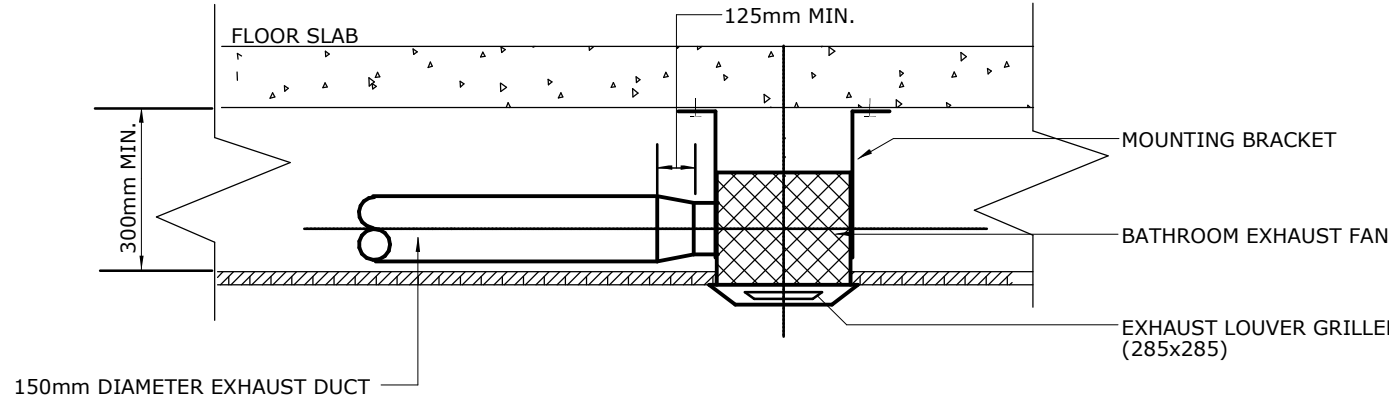
1
M0007

SPLIT WALL MOUNTED DX WITH CONDENSER
Scale: NTS



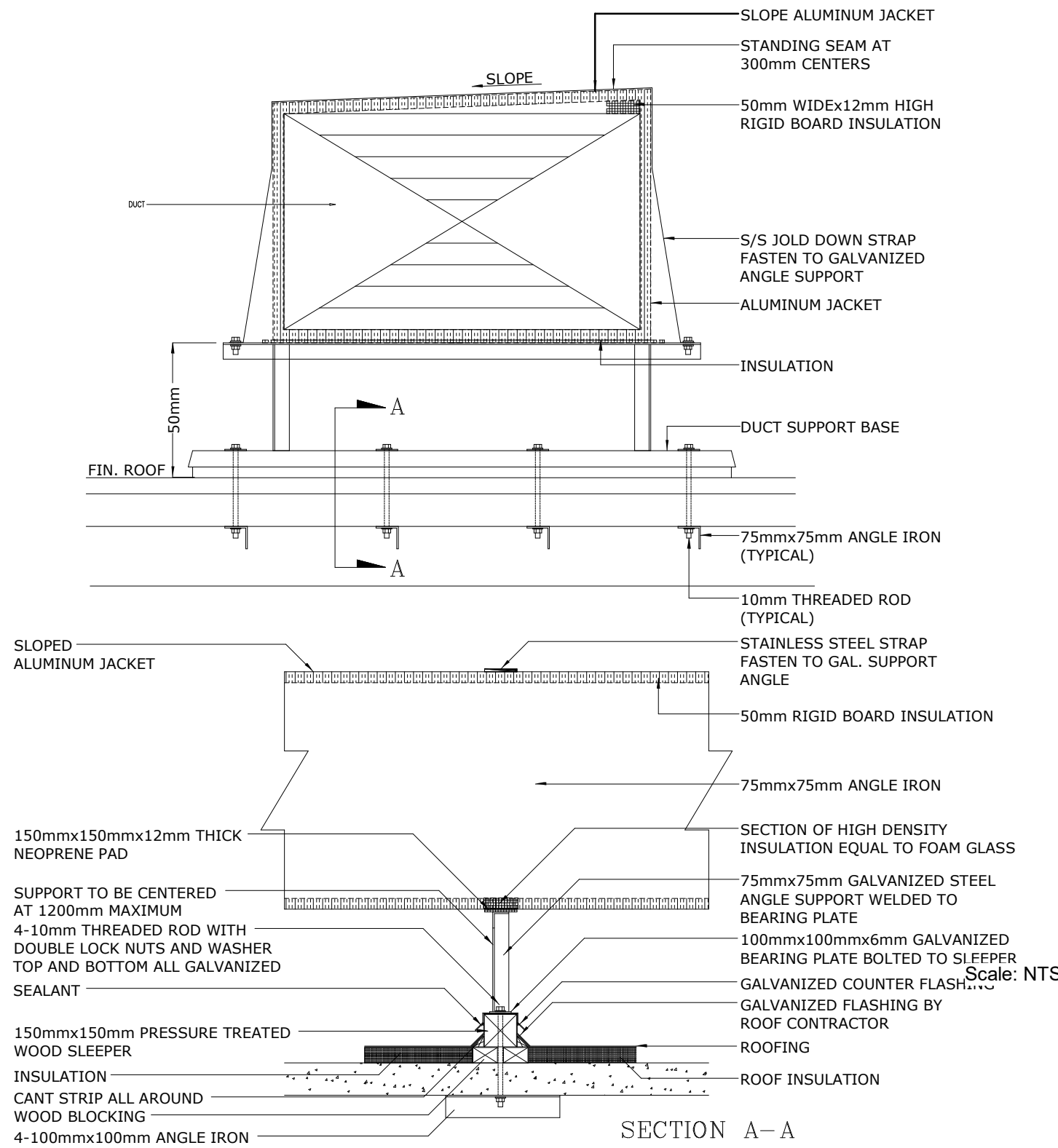
2
M0007

SINGLE BATHROOM EXHAUST FAN
Scale: NTS



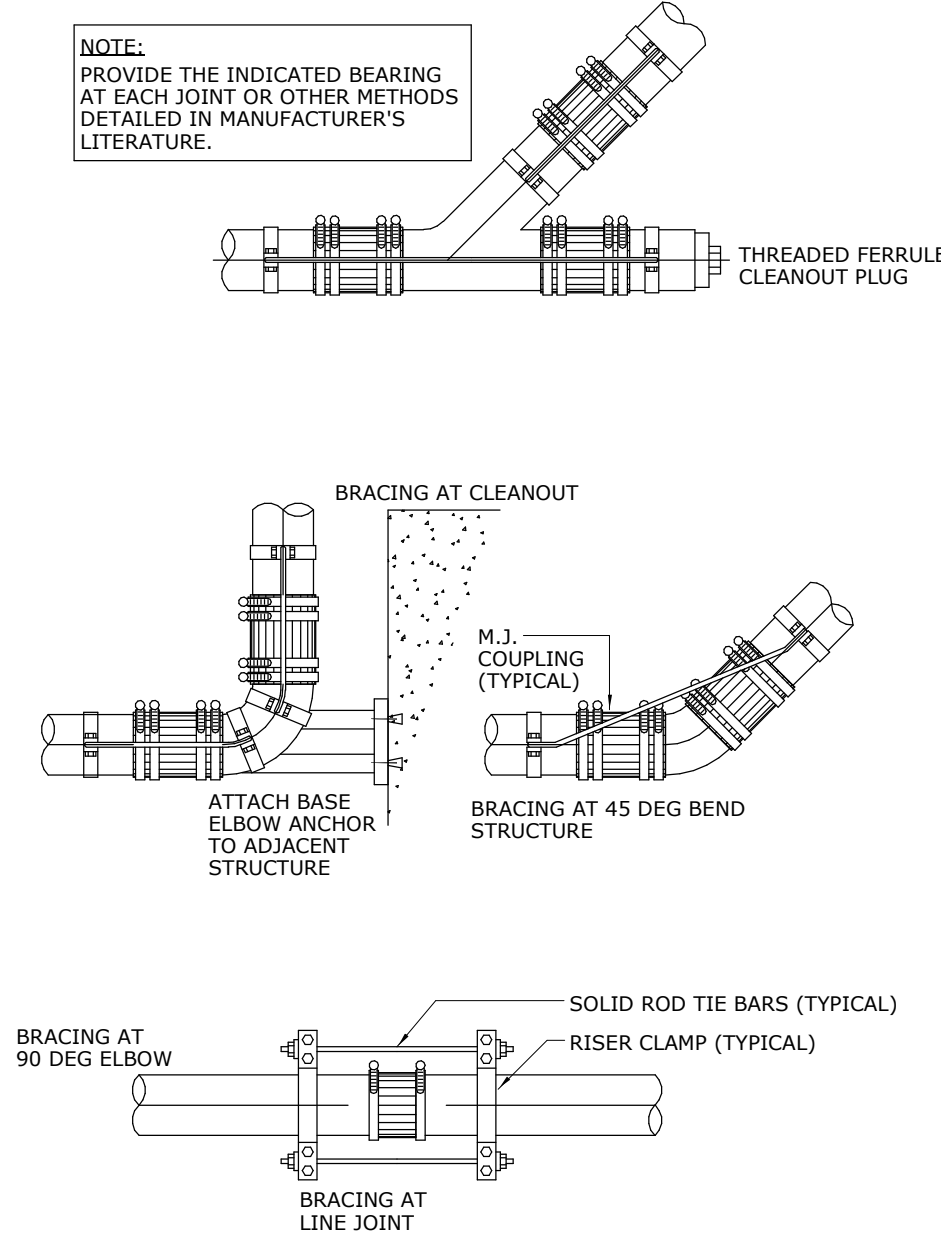
3
M0007

REFRIGERANT PIPE HANGER DETAIL
Scale: NTS



4
M0007

DUCT SUPPORT ON ROOF
Scale: NTS



5
M0007

MECHANICAL JOINT BRACING
Scale: NTS

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E	ISSUED FOR PERMIT	2025-12-09
F	ISSUED FOR TENDER	2025-12-09
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PROJECT MGR:
N. LAYOUN

APPROVED BY:
R. BARROSO

SHEET TITLE

**MECHANICAL DETAILS 4
OF 5**

SHEET NUMBER

M0007

ISSUE

G

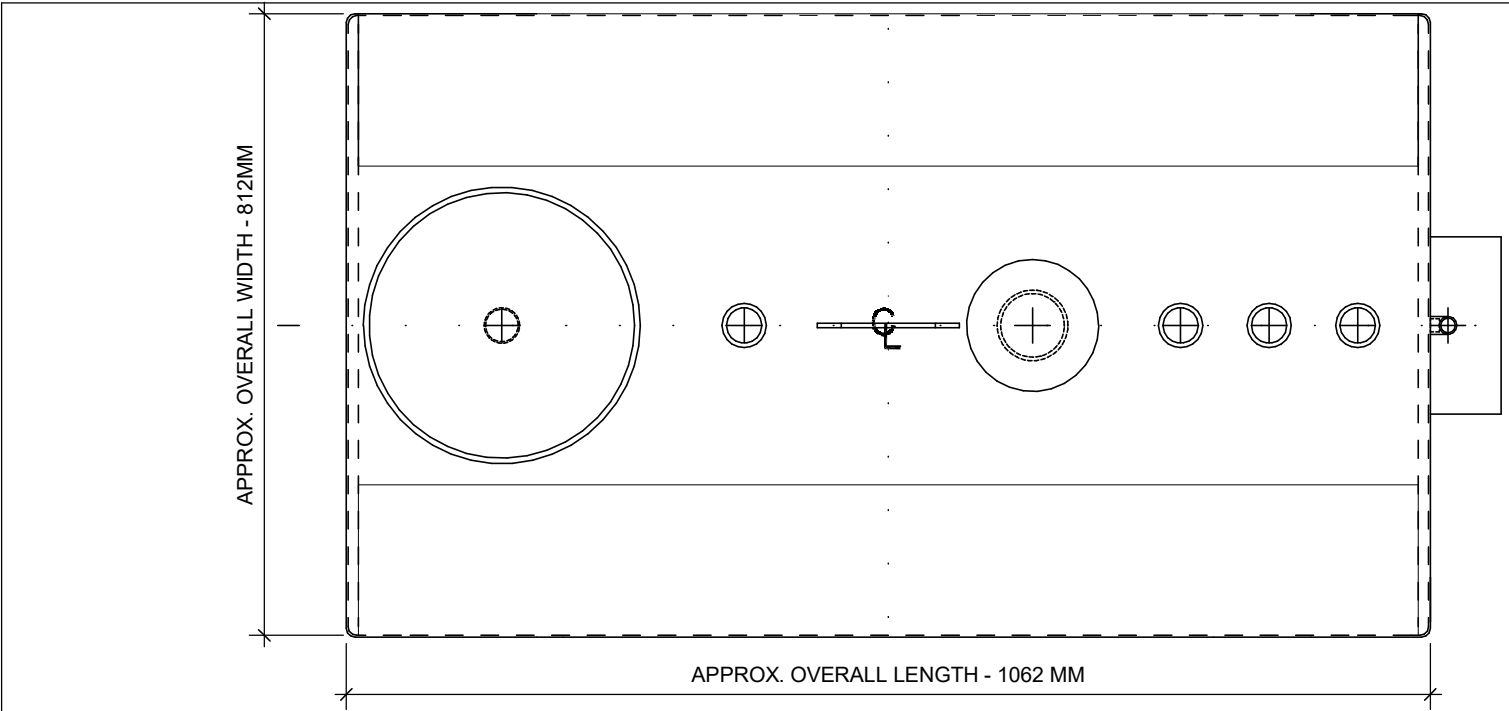
3
M0008

ENGINE OIL TANK DETAIL

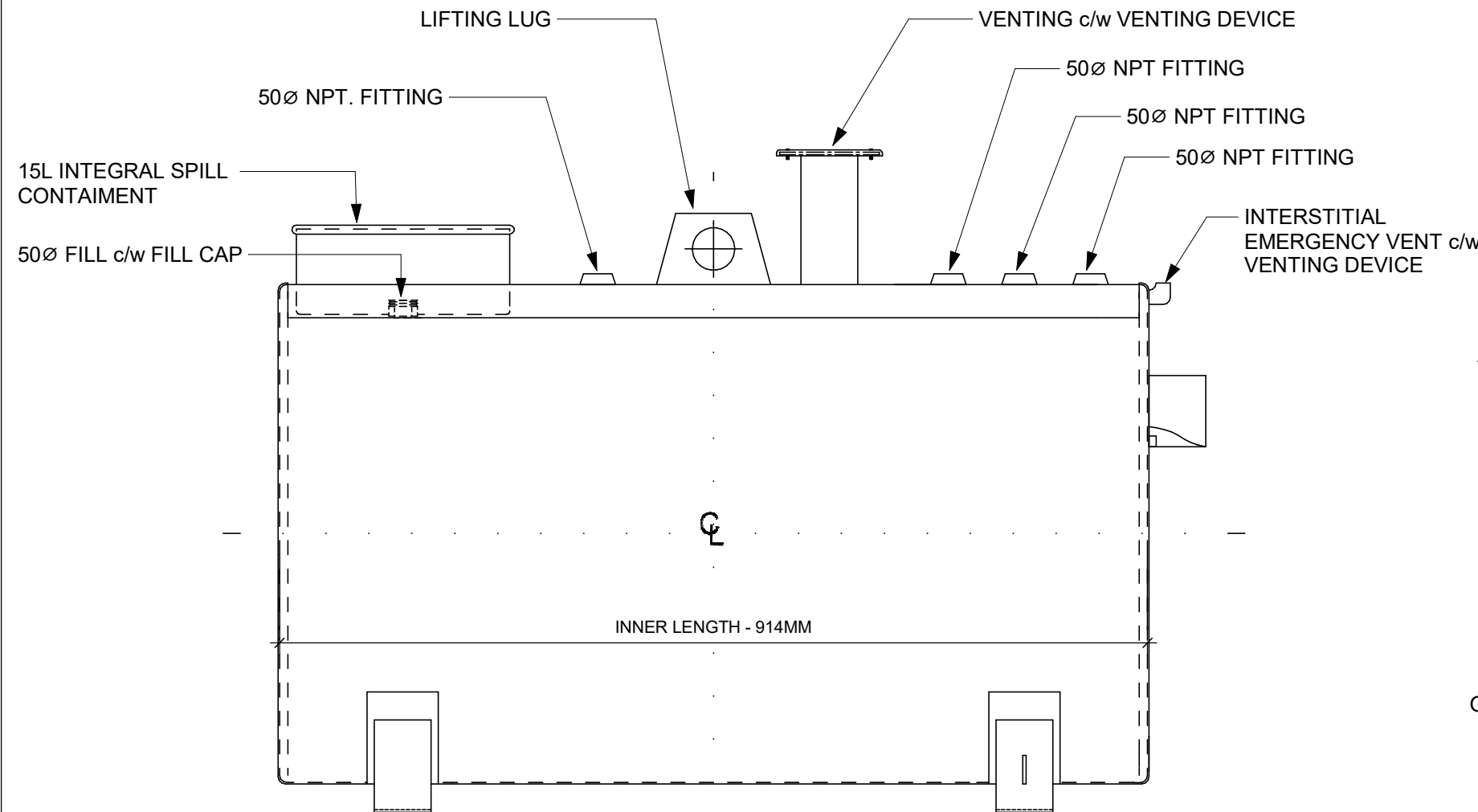
Scale: NTS

NOTES:

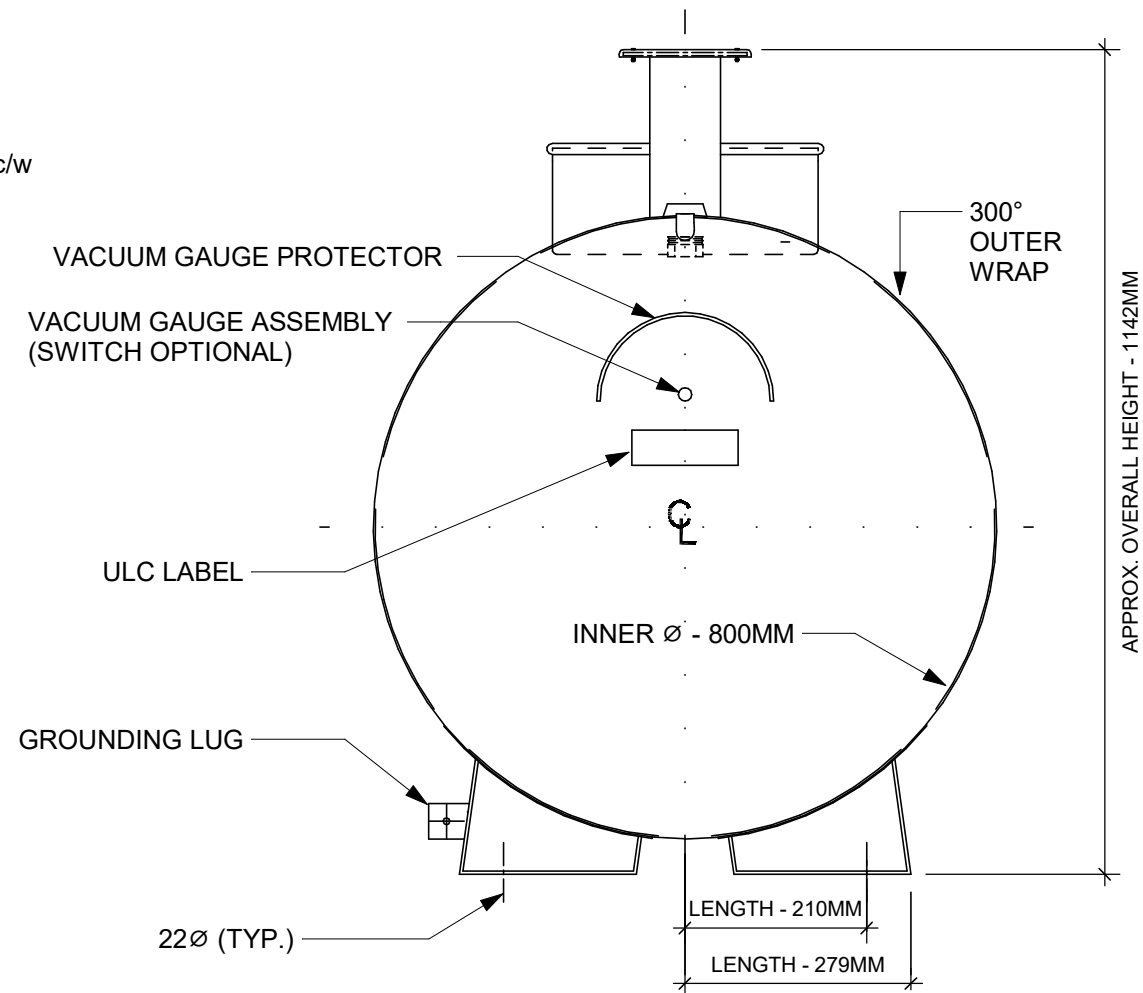
- FABRICATED IN ACCORDANCE WITH THE LATEST EDITION OF CAN/UCL - S601 WITH CAN/UCL LABEL AFFIXED TO TANK.
- MATERIALS - STEEL SHEET ASTM A1011 OR EQUAL.
- EQUIPED WITH HEAVY DUTY CRADLES WELDED TO TANK.
- INTERIOR OF TANK AS WELDED.
- EXTERIOR SURFACE BLASTED IN ACCORDANCE TO SSPC - SP6, COATED WITH ONE COAT EPOXY PRIMER AND TOP COAT WITH WHITE URETHANE PAINT, OTHER COLOUR AVAILABLE ON REQUEST.
- CUSTOM FABRICATION OF SPECIAL SIZES.
- 35 KPA FACTORY AIR TEST INSPECTION.
- VENTING IS 150MM ABOVE SPILL CONTAINMENT.
- ALL ATTACHMENTS INCLUDING SPILL CONTAINMENT, VENTING, VACUUM GAUGE AND LEG SUPPORT ARE ALL CAN/UCL LISTED.
- ALL DECALS TO BE BILINGUAL (ENGLISH & FRENCH).
- INSTALLATION INSTRUCTION AND WARRANTY DOCUMENTS SUPPLY WITH ALL TANKS.



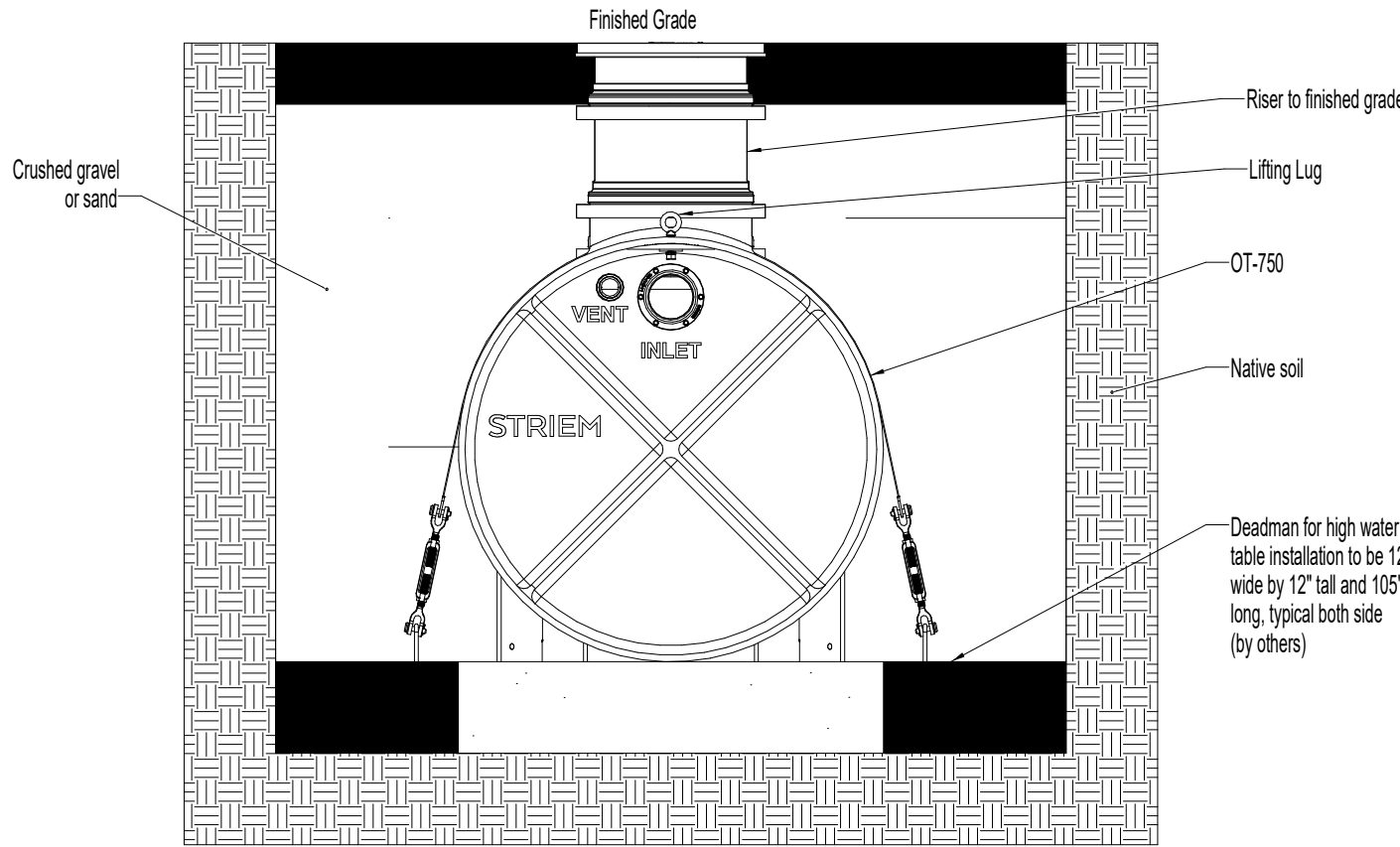
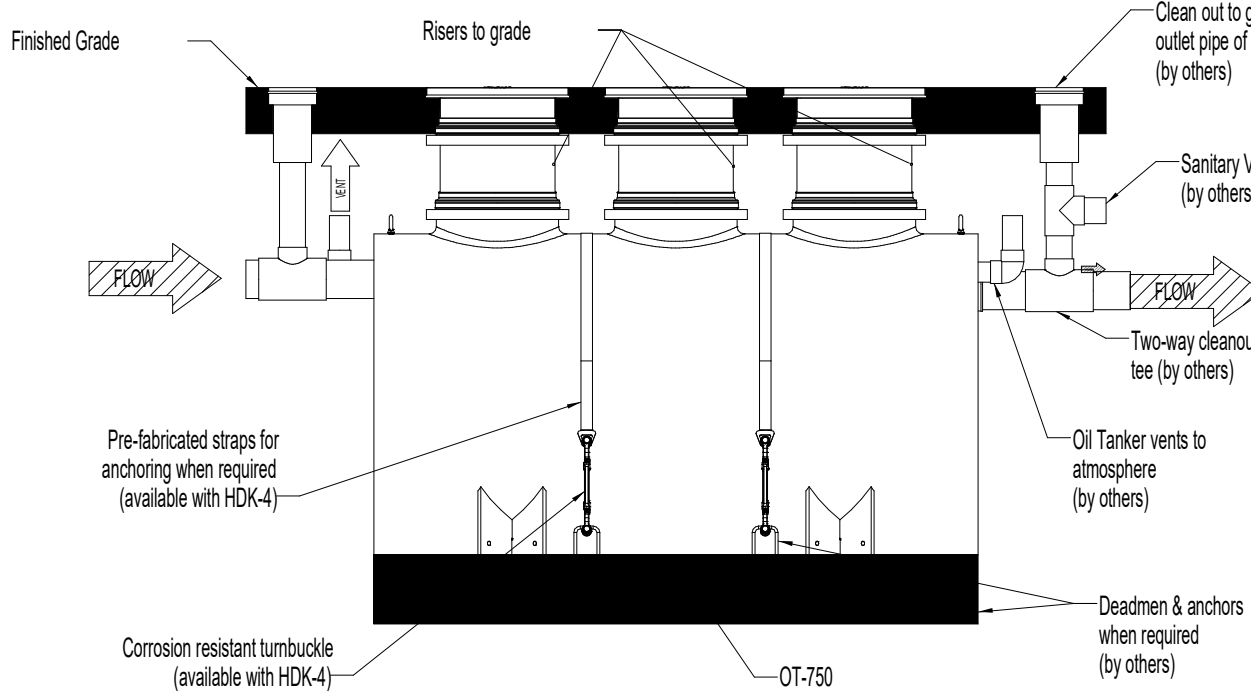
TOP VIEW



ELEVATION VIEW



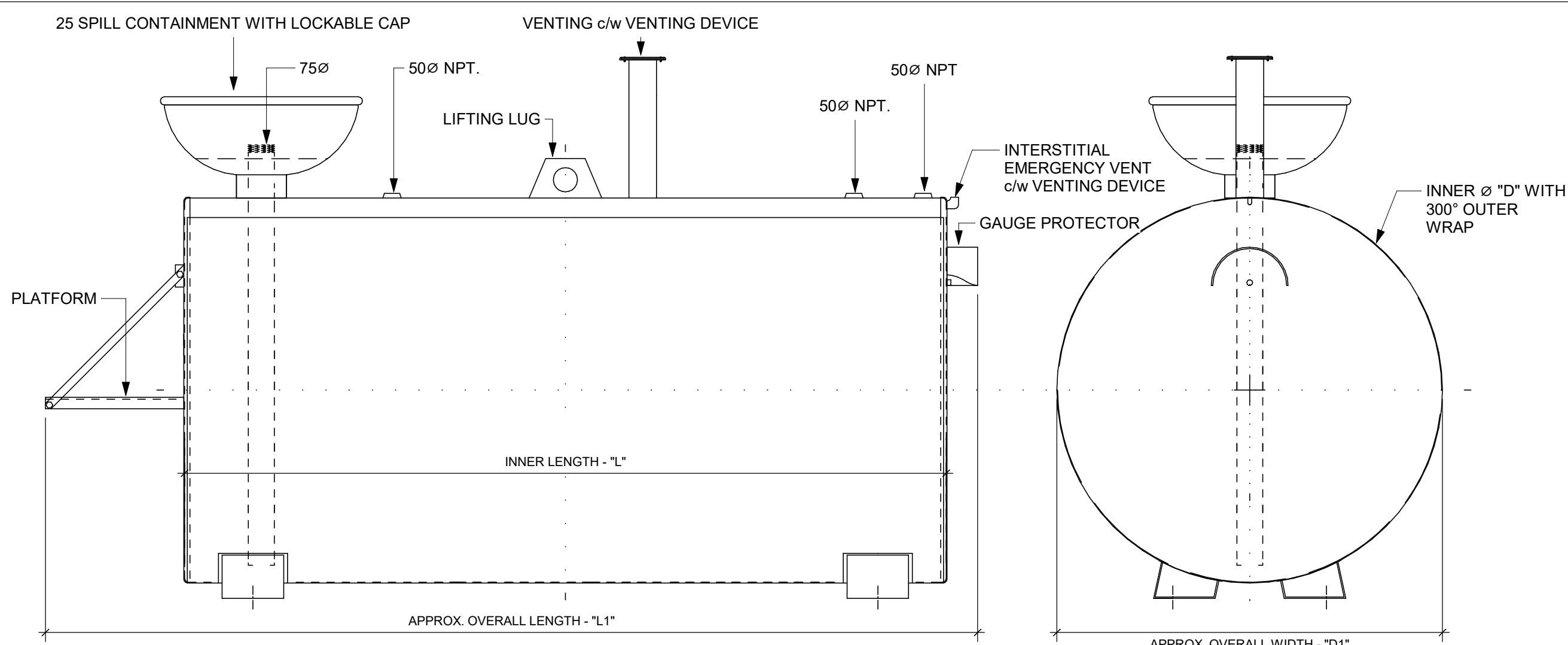
END VIEW



1

OIL INTERCEPTOR DETAILS

M0008 Scale: NTS



PART #	CAPACITY			DIMENSIONS (MM)				APPROX. WEIGHT (KG.)
	LITRES	IMPERIAL GALLON	US GALLON	D	L	D1	L1	
93310	1135	250	300	965	1555	990	2180	238
93320	2270	500	600	1270	1800	1295	2425	476

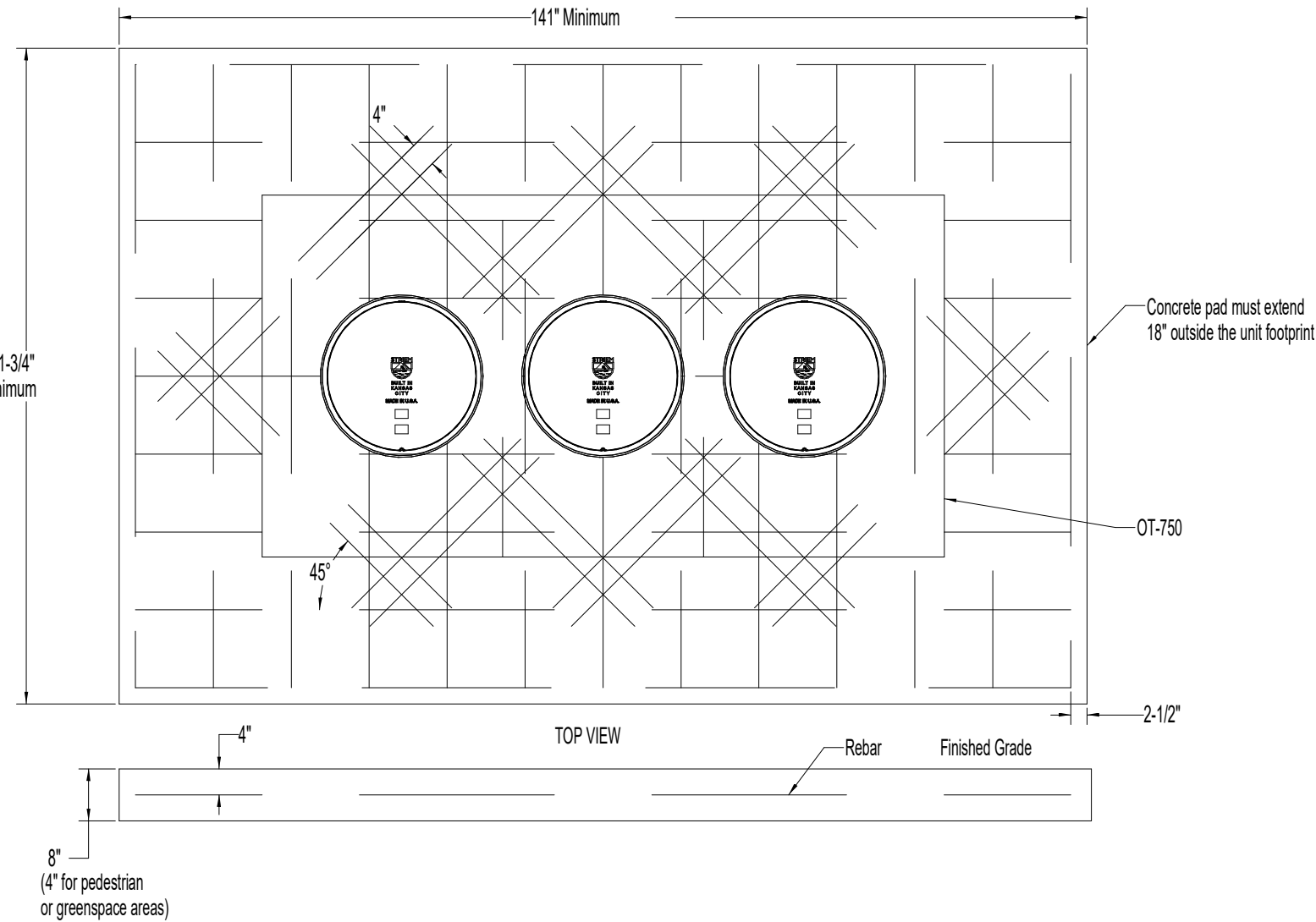
NOTES:

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- MATERIALS - STEEL SHEET ASTM A1011 OR EQUAL.
- EQUIPED WITH HEAVY DUTY CRADLES WELDED TO TANK.
- INTERIOR OF TANK AS WELDED.
- EXTERIOR SURFACE BLASTED IN ACCORDANCE TO SSPC - SP6, COATED WITH ONE COAT EPOXY PRIMER AND TOP COAT WITH WHITE URETHANE PAINT, OTHER COLOUR AVAILABLE ON REQUEST.
- CUSTOM FABRICATION OF SPECIAL SIZES.
- 35 KPA FACTORY AIR TEST INSPECTION.
- VENTING IS 150MM ABOVE SPILL CONTAINMENT.
- ALL DECALS TO BE BILINGUAL (ENGLISH & FRENCH).
- INSTALLATION INSTRUCTION AND WARRANTY DOCUMENTS SUPPLY WITH ALL TANKS.

2

WASTE OIL / WASTE ANTI-FREEZE TANK DETAIL

Scale: NTS



CLIENT

CITY OF TORONTO
Corporate Real Estate Management
Project Management Office
Metro Hall Toronto, ON
M5V 3C6

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R. BARROSO

SHEET TITLE

**MECHANICAL DETAILS 5
OF 5**

SHEET NUMBER

M0008

ISSUE

E

AIR CONDITIONING UNITS (AC)						
Mark No.		AC-01	AC-02	AC-03	AC-04	AC-05
Revision Date		28-Nov-25	28-Nov-25	28-Nov-25	28-Nov-25	28-Nov-25
Service		Office 104	Office 106	Office 108	Lunch Room 109	Locker Room 114
General Requirements						
Manufacturer		-	-	-	-	-
Model		-	-	-	-	-
Weight	kg	10.4	10.4	10.4	10.4	10.4
Fan						
Capacity	l/s	184	184	184	184	184
External Static Pressure	Pa	-	-	-	-	-
Cooling						
Sensible Capacity	kW	2.64	2.64	2.64	2.64	2.64
Total Capacity	kW	3.58	3.58	3.58	3.58	3.58
Heating						
Type		-	-	-	-	-
Sensible Capacity	kW	2.81	2.81	2.81	2.81	2.81
Capacity	kW	4.66	4.66	4.66	4.66	4.66
Motor / Power						
Power	kW	0.03	0.03	0.03	0.03	0.03
MCA	A	1	1	1	1	1
FLA	A	0.75	0.75	0.75	0.75	0.75
Volts/Phase/Hz		208/1/60	208/1/60	208/1/60	208/1/60	208/1/60
Unfused Disconnect		FUSE	FUSE	FUSE	FUSE	FUSE
CONTROLS						
Control Sequence	CS	751	751	751	751	751
Operating Controls						
BMS Start/Stop		No	No	No	No	No
Fire Alarm Stop		No	No	No	No	No
ELECTRICAL COORDINATION						
General Requirements						
Normal Power		YES	YES	YES	YES	YES
Emergency Power		NO	NO	NO	NO	NO
Disconnect provided by		MANUFACTURER	MANUFACTURER	MANUFACTURER	MANUFACTURER	MANUFACTURER

NOTES:
1. INDOOR UNIT THERMOSTATS SHALL BE BAS INTEGRATION READY FOR MONITORING PURPOSES.
2. STARTER SHALL BE SUPPLIED WITH THE EQUIPMENT.
3. WHERE REQUIRED, CONDENSATE PUMPS SHALL BE PROVIDED BY EQUIPMENT MANUFACTURER.
4. SEE SPECIFICATIONS FOR CONTROL AND MONITORING SYSTEMS FOR BAS INTEGRATION. ADDITIONALLY, IT SHALL COMPLY WITH CITY OF TORONTO BAS REQUIREMENTS.
5. CANADIAN MANUFACTURERS PREFERRED.

ENERGY RECOVERY VENTILATORS (ERV)			
MARK NO.		ERV-01	ERV-02
SERVICE		Office 104, Lunch Room	Office 106,108
MANUFACTURER		-	-
MODEL		-	-
UNIT FOOTPRINT (LXWXH) +/-10%	MM	540x241x781	540x241x781
UNIT OPERATING WEIGHT	KG	15.9	15.9
EXTERNAL STATIC PRESSURE	PA	200	200
FAN			
CAPACITY	L/S	65.1	65.1
FILTER			
TYPE		SPUN-POLYESTER	SPUN-POLYESTER
MERV RATING	No.	8	8
NOMINAL SIZE	MM	190.5x266.7x25.4	190.5x266.7x25.4
MOTOR (ELECTRICAL)			
NO. OF FAN		2	2
CAPACITY / FAN	L/S	65.1	65.1
HP	KW	0.05	0.05
VOLTS/PH/Hz		120/1/60	120/1/60
FLA PER MOTOR	A	0.85	0.85
MCA		15	15
MOP		15	15
ELECTRICAL COORDINATION			
GENERAL REQUIREMENTS			
EMERGENCY POWER		NO	NO
DISCONNECT PROVIDED BY		MANUFACTURER	MANUFACTURER

NOTES:
1. UNIT SHALL HAVE DEFROST CYCLE CONTROL.
2. INSTALL UNIT BASED ON CONFIGURATION SHOWN ON THE DRAWINGS USING MANUFACTURER RECOMMENDED INSTALLATION KIT.
3. COORDINATE INSTALLATION WITH MANUFACTURER.
4. ACTUAL ESP OF EQUIPMENT SHALL BE VERIFIED BY THE CONTRACTOR BASED ON ACTUAL ROUTING AND DUCT FITTINGS ON SITE PRIOR TO PROCURING THE EQUIPMENT. SELECTION ADJUSTMENT SHALL BE COORDINATED WITH THE MANUFACTURER.
5. SEE SPECIFICATIONS FOR CONTROL AND MONITORING SYSTEMS FOR BAS INTEGRATION. ADDITIONALLY, IT SHALL COMPLY WITH CITY OF TORONTO BAS REQUIREMENTS.
6. CANADIAN MANUFACTURERS PREFERRED.

AIR COOLED CONDENSING UNITS (ACC)						
Mark No.		ACC-01	ACC-02	ACC-03	ACC-04	ACC-05
Revision Date		28-Nov-25	28-Nov-25	28-Nov-25	28-Nov-25	28-Nov-25
Service		Office 104	Office 106	Office 108	Lunch Room 109	Locker Room 114
Performance						
Capacity	kW	7	7	7	7	7
Refrigerant		R410A	R410A	R410A	R410A	R410A
Ambient Air Temperature Min	°C	-15	-15	-15	-15	-15
Ambient Air Temperature Max	°C	35	35	35	35	35
No. of Compressors		1	1	1	1	1
Compressor Motor Rating	HP	-	-	-	-	-
Manufacturer		-	-	-	-	-
Model		-	-	-	-	-
Weight	kg	36.7	36.7	36.7	36.7	36.7
Condenser Coil						
Heat Rejection	kW	7	7	7	7	7
Entering Air Temperature Min	°C	-15	-15	-15	-15	-15
Entering Air Temperature Max	°C	35	35	35	35	35
Stages		-	-	-	-	-
No. of Condenser Fans		-	-	-	-	-
Condenser Motor Rating	HP	-	-	-	-	-
Discharge Position		HORIZONTAL	HORIZONTAL	HORIZONTAL	HORIZONTAL	HORIZONTAL
Vibration Control						
Base Type		STEEL BASE FRAME	STEEL BASE FRAME	STEEL BASE FRAME	STEEL BASE FRAME	STEEL BASE FRAME
Motor / Power						
FLA	A	0.5	0.5	0.5	0.5	0.5
MCA	A	10	10	10	10	10
MOCP	A	15	15	15	15	15
Volts/Phase/Hz		208/1/60	208/1/60	208/1/60	208/1/60	208/1/60
Unfused Disconnect		FUSE	FUSE	FUSE	FUSE	FUSE
CONTROLS						
Control Sequence	CS	751	751	751	751	751
Operating Controls						
BMS Start/Stop		NO	NO	NO	NO	NO
ELECTRICAL COORDINATION						
General Requirements						
Normal Power		YES	YES	YES	YES	YES
Emergency Power		NO	NO	NO	NO	NO
Disconnect provided by:		MANUFACTURER	MANUFACTURER	MANUFACTURER	MANUFACTURER	MANUFACTURER

1. STARTER SHALL BE SUPPLIED WITH THE EQUIPMENT.
2. CONDENSER UNITS EQUIPPED WITH ULTRA LOW AMBIENT CONTROLS TO -40C INCLUDING LOW AMBIENT HOOD WITH WIDE SCREEN.
3. CONDENSER UNIT SHALL BE INSTALLED ABOVE SNOW LEVEL. STAND SHALL BE ECO-FOOT MODEL EFMD4 OR APPROVED EQUAL.
4. SEE SPECIFICATIONS FOR CONTROL AND MONITORING SYSTEMS FOR BAS INTEGRATION. ADDITIONALLY, IT SHALL COMPLY WITH CITY OF TORONTO BAS REQUIREMENTS.
5. CANADIAN MANUFACTURERS PREFERRED.

BASEBOARD HEATERS			
MARK NO.		BH-01	BH-02
SERVICE		Stair A 112	Stair B 101
PERFORMANCE			
MANUFACTURER		-	-
MODEL		-	-
TOTAL CAPACITY	kW	1.5	1.5
WEIGHT	kg	8	8
LENGTH	mm	1200	1200
ELECTRICAL DATA			
VOLTS/PHASE/HZ		208/1/60	208/1/60
UNFUSED DISCONNECT		BY MANUFACTURER	
OPERATING CONTROLS			
BAS START/STOP		NO	NO
ELECTRICAL COORDINATION			
GENERAL REQUIREMENTS			
NORMAL POWER		YES	YES
EMERGENCY POWER		NO	NO
DISCONNECT PROVIDED BY		MANUFACTURER	

NOTES:
1. IT SHALL BE INSTALLED AS SHOWN ON THE DRAWINGS AND AS PER MANUFACTURER RECOMMENDED INSTALLATION COMPLETE WITH MANUFACTURER PROVIDED ACCESSORIES.
2. SEE SPECIFICATIONS FOR CONTROL AND MONITORING SYSTEMS FOR BAS INTEGRATION. ADDITIONALLY, IT SHALL COMPLY WITH CITY OF TORONTO BAS REQUIREMENTS.
3. CANADIAN MANUFACTURERS PREFERRED.

DOMESTIC WATER HEATERS		
MARK NO.		DHW-01
SERVICE		Domestic Water Heating
PERFORMANCE		
MANUFACTURER		-
MODEL		-
CAPACITY	L	287
WEIGHT	kg	77
DIMENSIONS (HxD)	mm	1540x610
ELECTRICAL DATA		
VOLTS/PHASE/HZ		208/1/60
STANDBY LOSS	W	78
ENERGY FACTOR		0.9
UNFUSED DISCONNECT		BY MANUFACTURER
OPERATING CONTROLS		
BAS START/STOP		NO
ELECTRICAL COORDINATION		
GENERAL REQUIREMENTS		
NORMAL POWER		YES
EMERGENCY POWER		NO
DISCONNECT PROVIDED BY		MANUFACTURER


NOTES:
1. UNIT TO BE PROVIDED WITH PRESSURE RELIEF VALVE AND BUILT-IN SAFETY DEVICES.
2. UNIT SHALL BE INSTALLED ON 100MM HIGH HOUSEKEEPING PAD.
3. UNIT DRAINS SHALL BE DISCHARGED WITH ENOUGH HEIGHT TO THE NEAREST FLOOR DRAIN WITHIN THE MECH ROOM.
4. SEE SPECIFICATIONS FOR CONTROL AND MONITORING SYSTEMS FOR BAS INTEGRATION. ADDITIONALLY, IT SHALL COMPLY WITH CITY OF TORONTO BAS REQUIREMENTS.
5. CANADIAN MANUFACTURERS PREFERRED.

SUMP PUMPS			
Mark No.		SP-01	SP-02
Revision Date		26-Nov-25	26-Nov-25
Service		Sump pit pump	Lunch Room Sink San
Drawing Location		Building 8	Lunch Room
Performance			
Fluid		Oil/Water Waste	Water waste
Fluid Temperature	°C	60	60
Flow Rate	l/s	3.15	1.13
Head	m	14.6	4.9
Type		Submersible High Head	Drain Pump
Size	cm	45.7 dia. 40 high	36.8x19.05x32
Manufacturer		-	-
Model		-	-
Motor			
Power	KW	0.7	0.3
RPM		3450	-
Volts/Phase/Hz		208/3/60 or 575/3/60	120/1/60
CONTROLS			
Control Sequence	CS	411	411
Operating Controls			
BMS Start/Stop		NO	NO
Fire Alarm Stop		NO	NO
Fire Alarm Start		NO	NO
ELECTRICAL COORDINATION			
General Requirements			
Normal Power		YES	YES
Emergency Power		NO	NO

NOTES:
1. STARTER IS SUPPLIED WITH EQUIPMENT.
2. SP-01 SHALL BE PROVIDED WITH OIL PROOF FLOAT.
3. SEE SPECIFICATIONS FOR CONTROL AND MONITORING SYSTEMS FOR BAS INTEGRATION. ADDITIONALLY, IT SHALL COMPLY WITH CITY OF TORONTO BAS REQUIREMENTS.
4. CANADIAN MANUFACTURERS PREFERRED.

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Project Management Office
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Arcadis Professional Services (Canada) Inc.


ISSUES

No.	DESCRIPTION	DATE
A	ISSUED FOR 50% REVIEW	2025-10-17
B	ISSUED FOR 75% REVIEW	2025-11-04
C	ISSUED FOR 95% REVIEW	2025-12-01
D	ISSUED FOR 100% REVIEW	2025-12-09
E	ISSUED FOR PERMIT	2025-12-09
F	ISSUED FOR TENDER	2025-12-09
G	ISSUED FOR TENDER - REV. 01	2025-12-23

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PROJECT TITLE

TORONTO PARAMEDIC SERVICES FLEET
MAINTENANCE STATION - UPGRADE
WORKS

PROJECT ADDRESS

KING STREET YARD -
BUILDING NO. 8 & 9
1116 KING STREET WEST

PROJECT NO:
30276606

DRAWN BY:
C. SU

CHECKED BY:
K. ALMOHAMED

PROJECT MGR:
N. LAYOUN

APPROVED BY:
R. BARROSO

SHEET TITLE

EQUIPMENT SCHEDULE
1 OF 3

SHEET NUMBER

M0201

ISSUE

G

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1 of 1

ISSUE CHECK

1 of 1

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FANS (SF/EF)												
MARK NO.		EF-01	EF-02	EF-03	EF-04	EF-05	EF-06	EF-07	EF-08	EF-09	EF-10	EF-11
AREA SERVED		GARAGE 107	GARAGE 102	GARAGE 107	GARAGE 102	B.F. WASHROOM 110	WASHROOM 103	LOCKEROOM 114	STORAGE 105	PARTS STORAGE 113	BUILDING 9	BUILDING 8
SERVICE		Exhaust	Exhaust	Exhaust	Exhaust	Exhaust	Exhaust	Exhaust	Exhaust	Exhaust	Tailpipe Exhaust	Tailpipe Exhaust
PERFORMANCE												
TYPE		CENTRIFUGAL DIRECT DRIVE UPBLAST	CENTRIFUGAL DIRECT DRIVE UPBLAST	SIDEWALL AXIAL DIRECT DRIVE	SIDEWALL AXIAL DIRECT DRIVE	CEILING CABINET AND IN-LINE FAN	CEILING CABINET AND IN-LINE FAN	CEILING CABINET AND IN-LINE FAN	INLINE CABINET FAN	CEILING CABINET AND IN-LINE FAN	CENTRIFUGAL DIRECT DRIVE	CENTRIFUGAL DIRECT DRIVE
CAPACITY	L/S	1,888	1,652	1,416	1,652	66	66	66	1,151	66	1,180	1,180
EXTERNAL STATIC PRESSURE	PA	249	249	298	250	100	100	100	250	100	1,495	1,495
MANUFACTURER		-	-	-	-	-	-	-	-	-	-	-
MODEL		-	-	-	-	-	-	-	-	-	-	-
PHYSICAL												
BASE TYPE		IR	IR	STEEL FRAME WITH SUPPORT	STEEL FRAME WITH SUPPORT	SH	SH	SH	SH	SH	IR	IR
HEIGHT	MM	1001	1001	660.4	660.4	292	292	292	1200	292	-	-
WEIGHT	KG	49.9	49.9	54.88	48.5	-	-	-	-	-	105	105
MOTOR												
HP		2	2	2	2	-	-	-	1	-	5.4	5.4
FLA	A	12.5	12.5	-	-	1.7	1.7	1.7	-	1.7	-	-
MCA	A	16	16	-	-	-	-	-	-	-	-	-
MOP	A	30	30	-	-	-	-	-	-	-	-	-
RPM		1725	1725	1750	1750	1500	1500	1500	1090	1500	-	-
VOLTS/PHASE/HZ		208/3/60	208/3/60	208/1/60	208/1/60	120/1/60	120/1/60	120/1/60	115/1/60 or 240/1/60	120/1/60	208/3/60	208/3/60
BACKDRAFT DAMPER												
TYPE		Built in/Integral with Fan Gravity Type	Built in/Integral with Fan Gravity Type	Built in/Integral with Fan Gravity Type	Built in/Integral with Fan Gravity Type	Built in/Integral with Fan Gravity Type	Built in/Integral with Fan Gravity Type	Built in/Integral with Fan Gravity Type	Built in/Integral with Fan Gravity Type	Built in/Integral with Fan Gravity Type	Built in/Integral with Fan Gravity Type	Built in/Integral with Fan Gravity Type
SUPPLIED BY		MANUFACTURER	MANUFACTURER	MANUFACTURER	MANUFACTURER	MANUFACTURER	MANUFACTURER	MANUFACTURER	MANUFACTURER	MANUFACTURER	MANUFACTURER	MANUFACTURER
POWER		NONE	NONE	NONE	NONE	NONE	NONE	NONE	NONE	NONE	NONE	NONE
CONTROLS												
CONTROL SEQUENCE		852	852	852	852				803.0		810	810
OPERATING CONTROLS												
BAS START/STOP		YES	YES	YES	YES	LOCAL SWITCH	LOCAL SWITCH	LOCAL SWITCH	LOCAL SWITCH BAS	LOCAL SWITCH	LOCAL SWITCH BAS	LOCAL SWITCH BAS
FIRE ALARM STOP		NO	NO	NO	NO	YES	YES	YES	NO	YES	NO	NO
ELECTRICAL COORDINATION												
GENERAL REQUIREMENTS												
NORMAL POWER		YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES
EMERGENCY POWER		YES	YES	YES	YES	NO	NO	NO	NO	NO	NO	NO

NOTES:
1. ROOF INSTALLED FAN SHALL HAVE 508MM HIGH ROOF CURB AND FAN BASE TO BE PROVIDED WITH PREDRILLED HOLES FOR SITE FASTENING.
2. STARTED AND DISCONNECT SWITCHES TO BE SUPPLIED BY MANUFACTUTER.
3. PROVIDE STARTERS WITH FANS FOR H-O-A CONTROL.
4. HVAC SYSTEM SHALL BE INTERLOCKED WITH FIRE DETECTION SYSTEM TO RUN WHEN ANY OF THE FIRE PROTECTION SYSTEM IS ENABLED.
5. EQUIPMENT CONTROLLED BY BAS SHOULD BE PROVIDED WITH BACNET READY CONTROLLERS READY OR SIMILAR FOR BAS INTEGRATION. BAS CONTROL PROVISIONS SHALL BE SUBMITTED TO ENGINEER FOR REVIEW. SEE SPECIFICATIONS FOR CONTROL AND MONITORING SYSTEMS FOR BAS INTEGRATION. ADDITIONALLY, IT SHALL COMPLY WITH CITY OF TORONTO BAS REQUIREMENTS.
6. ACTUAL ESP OF EQUIPMENT SHALL BE VERIFIED BY THE CONTRACTOR BASED ON ACTUAL ROUTING AND DUCT FITTINGS ON SITE PRIOR TO PROCURING THE EQUIPMENT. SELECTION ADJUSTMENT SHALL BE COORDINATED WITH THE MANUFACTURER.
7. CANADIAN MANUFACTURERS PREFERRED.

UNIT HEATERS (UH)														
Mark No.		UH-01	UH-02	UH-03	UH-04	UH-05	UH-06	UH-07	UH-08	UH-09	UH-10	UH-11	UH-12	UH-13
Revision Date		5-Nov-25	5-Nov-25	5-Nov-25	5-Nov-25	5-Nov-25	5-Nov-25	5-Nov-25	5-Nov-25	5-Nov-25	5-Nov-25	5-Nov-25	5-Nov-25	5-Nov-25
Service		STORAGE 105	BLDG 8	BLDG 8	BLDG 8	BLDG 8	BLDG 8	BLDG 8	BLDG 9	BLDG 9	BLDG 9	BLDG 9	BLDG 9	BLDG 9
Performance														
Manufacturer		-	-	-	-	-	-	-	-	-	-	-	-	-
Model		-	-	-	-	-	-	-	-	-	-	-	-	-
Total Capacity	kW	15	15	15	15	15	15	15	15	15	15	15	15	15
Fan														
Capacity	l/s	660.7	660.7	660.7	660.7	660.7	660.7	660.7	660.7	660.7	660.7	660.7	660.7	660.7
Vibration Control														
Isolator Type		SHR	SHR	SHR	SHR	SHR	SHR	SHR	SHR	SHR	SHR	SHR	SHR	SHR
Motor														
HP		0.33	0.33	0.33	0.33	0.33	0.33	0.33	0.33	0.33	0.33	0.33	0.33	0.33
RPM		1725	1725	1725	1725	1725	1725	1725	1725	1725	1725	1725	1725	1725
Volts/Phase/Hz		600/1/60	600/1/60	600/1/60	600/1/60	600/1/60	600/1/60	600/1/60	600/1/60	600/1/60	600/1/60	600/1/60	600/1/60	600/1/60
CONTROLS														
Control Sequence	CS	803	852	SEE STANDARD DETAIL 12/M0005	852	SEE STANDARD DETAIL 12/M0005	SEE STANDARD DETAIL 12/M0005	852	852	SEE STANDARD DETAIL 12/M0005	SEE STANDARD DETAIL 12/M0005	SEE STANDARD DETAIL 12/M0005	SEE STANDARD DETAIL 12/M0005	852
Operating Controls														
BMS Start/Stop		NO	NO	DOOR CONTROL/BAS MONITOR	NO	DOOR CONTROL/BAS MONITOR	DOOR CONTROL/BAS MONITOR	NO	NO	DOOR CONTROL/BAS MONITOR	DOOR CONTROL/BAS MONITOR	DOOR CONTROL/BAS MONITOR	DOOR CONTROL/BAS MONITOR	NO
ELECTRICAL COORDINATION														
General Requirements														
Normal Power		YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES
Emergency Power		NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Disconnect provided by		MANUFACTURER	MANUFACTURER	MANUFACTURER	MANUFACTURER	MANUFACTURER	MANUFACTURER	MANUFACTURER	MANUFACTURER	MANUFACTURER	MANUFACTURER	MANUFACTURER	MANUFACTURER	MANUFACTURER

NOTES:
1. SEE SPECIFICATIONS FOR CONTROL AND MONITORING SYSTEMS FOR BAS INTEGRATION. ADDITIONALLY, IT SHALL COMPLY WITH CITY OF TORONTO BAS REQUIREMENTS.
2. CANADIAN MANUFACTURERS PREFERRED.

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ISSUES		
No.	DESCRIPTION	DATE
A	ISSUED FOR 60% REVIEW	2025-10-17
B	ISSUED FOR 75% REVIEW	2025-11-04
C	ISSUED FOR 95% REVIEW	2025-12-01
D	ISSUED FOR 100% REVIEW	2025-12-09
E	ISSUED FOR PERMIT	2025-12-09
F	ISSUED FOR TENDER	2025-12-09
G	ISSUED FOR TENDER - REV. 01	2025-12-23

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PROJECT TITLE
TORONTO PARAMEDIC SERVICES FLEET
MAINTENANCE STATION - UPGRADE
WORKS

PROJECT ADDRESS
**KING STREET YARD -
BUILDING NO. 8 & 9**
1116 KING STREET WEST

PROJECT NO:
30276606

DRAWN BY:
C. SU

CHECKED BY:
K. ALMOHAMED

PROJECT MGR:
N. LAYOUN

APPROVED BY:
R. BARROSO

SHEET TITLE
**EQUIPMENT SCHEDULE
2 OF 3**

SHEET NUMBER
M0202

ISSUE
G

COMPRESSORS			
Mark No.		ACO-01	ACO-02
Revision Date		5-Nov-25	5-Nov-25
Service		COMPRESSED AIR SYSTEM	COMPRESSED AIR SYSTEM
Drawing Location		STORAGE 105	STORAGE 105
General Requirements			
Manufacturer		-	-
Model		-	-
Dimensions (DxH)	mm	762x1873	762x1873
Net Weight	kg	408	408
Pressure Setting	kPa	1034	1034
Receiver Capacity	L	454	454
Compressor Pump Data			
Type		447	447
Number of Cylinders		4	4
Stage		2	2
RPM		590	590
Electrical Data			
Power	kW	7.46	7.46
FLA	A	11	11
Volts/Phase/Hz		575/3/60	575/3/60
CONTROLS			
Control Sequence	CS	202	202
Controlled by		PRESSURE SENSOR	PRESSURE SENSOR
ELECTRICAL COORDINATION			
General Requirements			
Normal Power		YES	YES
Emergency Power		NO	NO
Disconnect provided by		MANUFACTURER	MANUFACTURER

1. STARTER IS SUPPLIED WITH EQUIPMENT.
2. COMPRESSOR SHALL BE INTERLOCKED WITH FIRE DETECTION SYSTEM TO AUTOMATICALLY SHUT DOWN WHEN ANY OF THE FIRE PROTECTION SYSTEM IS ENABLED.
3. IT SHALL BE MOUNTED ON A 100MM HIGH HOUSEKEEPING PAD WITH COMPRESSOR MANUFACTURER RECOMMENDED CLEARANCES.
4. SEE SPECIFICATIONS FOR CONTROL AND MONITORING SYSTEMS FOR BAS INTEGRATION. ADDITIONALLY, IT SHALL COMPLY WITH CITY OF TORONTO BAS REQUIREMENTS.
5. CANADIAN MANUFACTURERS PREFERRED.

PROCESS LUBE PUMPS SCHEDULE		
Mark No.		P-EO-01
Service		ENGINE OIL TANK
Drawing Location		Building 9
Performance		
Lube		ENGINE OIL
Flow Rate	l/s	1.89
Type		DIAPHRAGM PUMP
Compression Ratio		1:1
Power		110V/1PH/60HZ for Air Solenoid Valve

MAKEUP AIR UNITS (MAU)					
MARK NO.		MAU-01		MAU-02	
		SUPPLY	OUTDOOR	SUPPLY	OUTDOOR
SERVICE		BLDG 8		BLDG 9	
GENERAL		SUPPLY	OUTDOOR	SUPPLY	OUTDOOR
MANUFACTURER		-		-	
MODEL		-		-	
UNIT FOOTPRINT (LXWXH) +/-10%	MM	3254.5x1117.6x1143.5		3224.7x855x991.1	
MODULE MATERIAL		-		-	
UNIT OPERATING WEIGHT (APPROX)	KG	1,274		1,061	
EAT	°C		-20	-20	-
LAT	°C	20.1	-	20.9	-
EXTERNAL STATIC PRESSURE	PA	124.5	-	124.5	-
FAN					
CAPACITY	L/S	1,652	1,652	1,416	1,416
PURGING MODE CAPACITY	L/S	-		-	
VFD		NO		NO	
HEATING					
TYPE		ELECTRIC		ELECTRIC	
OUTPUT CAPACITY	KW	80		70	
EFFICIENCY		-		-	
TURN DOWN RATIO		-		-	
FILTER					
TYPE		-	-	-	-
MERV RATING	No.	13	13	8	8
NOMINAL SIZE	MM	508x508x50.8		406.4x508x50.8	
VIBRATION CONTROL					
BASE TYPE		IS		IS	
ISOLATOR TYPE		SHR		SHR	
STATIC DEFLECTION	MM	45		45	
MOTOR (ELECTRICAL)					
NO. OF FAN		1		1	
CAPACITY / FAN	L/S	1,652		1,416	
HP		1.5		1.5	
MCA	A	83.5		73.5	
MOP	A	90		80	
VOLTS/PH/HZ		575/3/60		575/3/60	
ELECTRICAL COORDINATION					
GENERAL REQUIREMENTS					
EMERGENCY POWER		NO	NO	NO	NO
DISCONNECT PROVIDED BY		MANUFACTURER		MANUFACTURER	
OPERATING CONTROLS					
CONTROL SEQUENCE	CS	852		852	
BACS START/STOP		LOCAL SWITCH/BAS		LOCAL SWITCH/BAS	
FIRE ALARM STOP		YES		YES	
FIRE ALARM START		YES		YES	
EQUIPMENT STARTS:		BAS / MANUFACTURER		BAS / MANUFACTURER	
EQUIPMENT STARTED BY:		BAS SCHEDULE / OPERATOR		BAS SCHEDULE / OPERATOR	

1. EQUIPMENT SELECTION SHOWN IS FOR REFERENCE ONLY. COORDNATE WITH UNIT MANUFACTURER FOR FINAL SELECTION DETAILS. SELECTION SHALL BE SUBMITTED TO ENGINEER FOR REVIEW.
2. HVAC SYSTEM SHALL BE INTERLOCKED WITH FIRE DETECTION SYSTEM. SEE RELATED CONTROL SEQUENCE FOR DETAILS.
3. EQUIPMENT CONTROLLED BY BAS SHOULD BE PROVIDED WITH BACNET READY CONTROLLERS READY OR SIMILAR FOR BAS INTEGRATION. BAS CONTROL PROVISIONS SHALL BE SUBMITTED TO ENGINEER FOR REVIEW. SEE SPECIFICATIONS FOR CONTROL AND MONITORING SYSTEMS FOR BAS INTEGRATION. ADDITIONALLY, IT SHALL COMPLY WITH CITY OF TORONTO BAS REQUIREMENTS.
4. FAN SHALL BE INTERNALLY ISOLATED FOR VIBRATION.
5. STARTER SHALL BE SUPPLIED WITH EQUIPMENT.
6. ACTUAL ESP OF EQUIPMENT SHALL BE VERIFIED BY THE CONTRACTOR BASED ON ACTUAL ROUTING AND DUCT FITTINGS ON SITE PRIOR TO PROCURING THE EQUIPMENT. SELECTION ADJUSTMENT SHALL BE COORDINATED WITH THE MANUFACTURER.
7. CANADIAN MANUFACTURERS PREFERRED.

AIR CURTAINS (AIRC)			
Mark No.	AIRC-01		AIRC-02
Revision Date		16-Nov-25	16-Nov-25
Service		GARAGE 107	PARTS STORAGE 113
Performance			
Manufacturer		-	-
Model		-	-
Total Capacity	KW	9	9
Air Stream Width	mm	933	933
Weight	kg	16	16
Fan			
Capacity	l/s	349.2	349.2
Max Velocity	m/s	8.99	8.99
Motor			
HP		12.07	12.07
AMP	A	9.3+0.5	9.3+0.5
Volts/Phase/Hz		600/3/60 + 208 or 240	600/3/60 + 208 or 240
CONTROLS			
Control Sequence	CS	SEE STANDARD DETAIL 12/M0005	SEE STANDARD DETAIL 12/M0005
ELECTRICAL COORDINATION			
General Requirements			
Normal Power		YES	YES
Emergency Power		NO	NO
Disconnect provided by		MANUFACTURER	MANUFACTURER

PROCESS TANKS			
Mark No.	WO-01	WAF-01	EO-01
Drawing Location	BUILDING 9	BUILDING 9	BUILDING 9
Lube	WASTE OIL	WASTE ANTI FREEZE	ENGINE OIL
Storage Capacity	L 2270	1135	454
Material	Steel (ATSM A1011 or equal) Double Wall Coated with Epoxy Primer	Steel (ATSM A1011 or equal) Double Wall Coated with Epoxy Primer	Steel (ATSM A1011 or equal) Double Wall Coated with Epoxy Primer
Insulated	No	No	No
In Tank Heater	No	No	No
Weight	Kg 476	238	154
Power	-	-	-

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PROJECT TITLE
TORONTO PARAMEDIC SERVICES FLEET
MAINTENANCE STATION - UPGRADE
WORKS

PROJECT ADDRESS

KING STREET YARD -
BUILDING NO. 8 & 9
1116 KING STREET WEST

PROJECT NO:
30276606

DRAWN BY:
C. SU

CHECKED BY:
K. ALMOHAMED

PROJECT MGR:
N. LAYOUN

APPROVED BY:
R. BARROSO

SHEET TITLE
EQUIPMENT SCHEDULE
3 OF 3

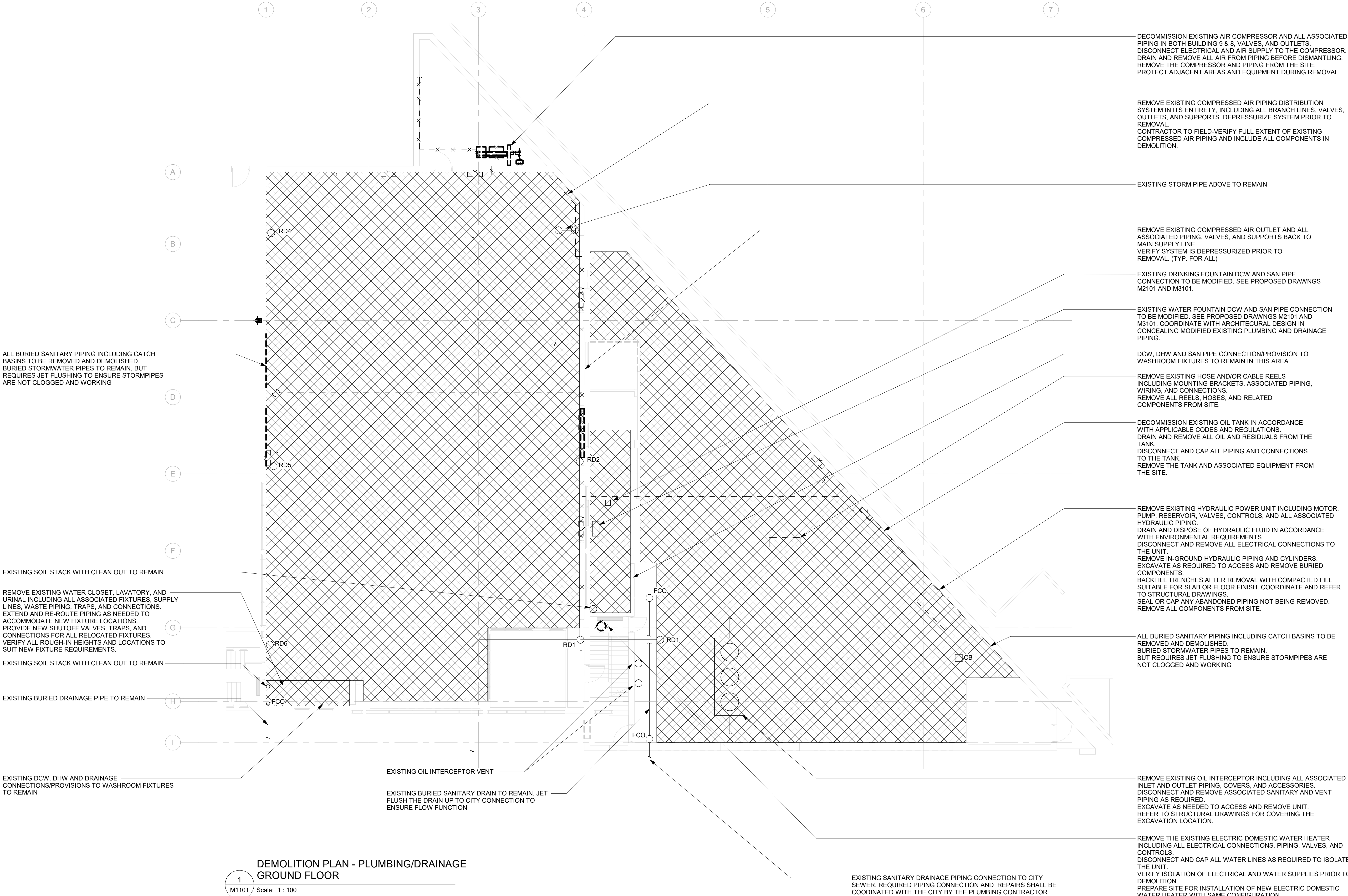
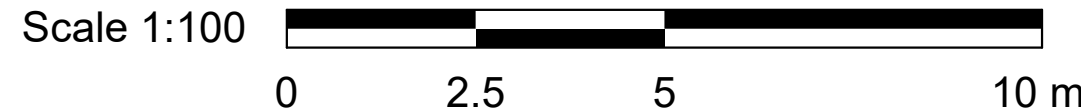
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M0203

ISSUE

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DEMOLITION PLAN - PLUMBING/DRAINAGE
GROUND FLOOR

Scale: 1 : 100

- GENERAL NOTES:
1. CONTRACTOR TO VERIFY SITE CONDITION.
 2. REMOVE AND CAP EXISTING SERVICES AS SHOWN ON THE DRAWING.
 3. ALL EXISTING SERVICES SHALL REMAIN UNLESS OTHERWISE NOTED.

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PROJECT NO:
30276606

DRAWN BY:
C. SU

CHECKED BY:
K. ALMOHAMED

PROJECT MGR:
N. LAYOUN

APPROVED BY:
R. BARROSO

SHEET TITLE
**DEMOLITION PLAN -
PLUMBING/DRAINAGE
GROUND FLOOR**

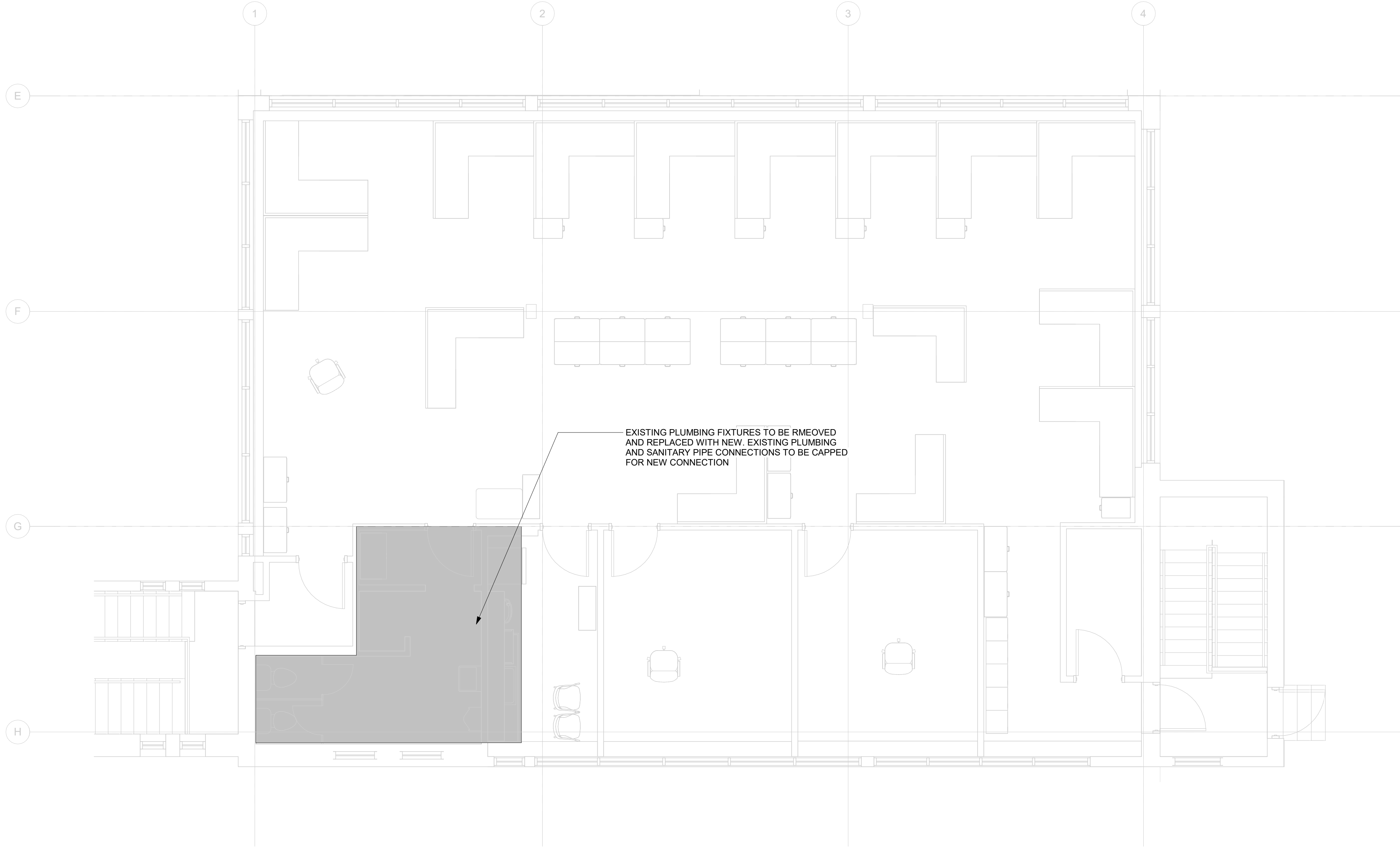
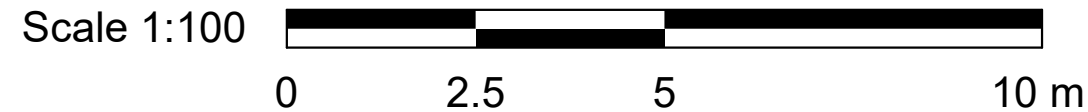
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1
M1102 Scale: 1 : 50

DEMOLITION PLAN - SECOND FLOOR PLUMBING/DRAINAGE

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DRAWN BY:
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CHECKED BY:
K. ALMOHAMED

PROJECT MGR:
N. LAYOUN

APPROVED BY:
R. BARROSO

SHEET TITLE

**DEMOLITION PLAN -
PLUMBING/DRAINAGE
SECOND FLOOR**

SHEET NUMBER

M1102

ISSUE

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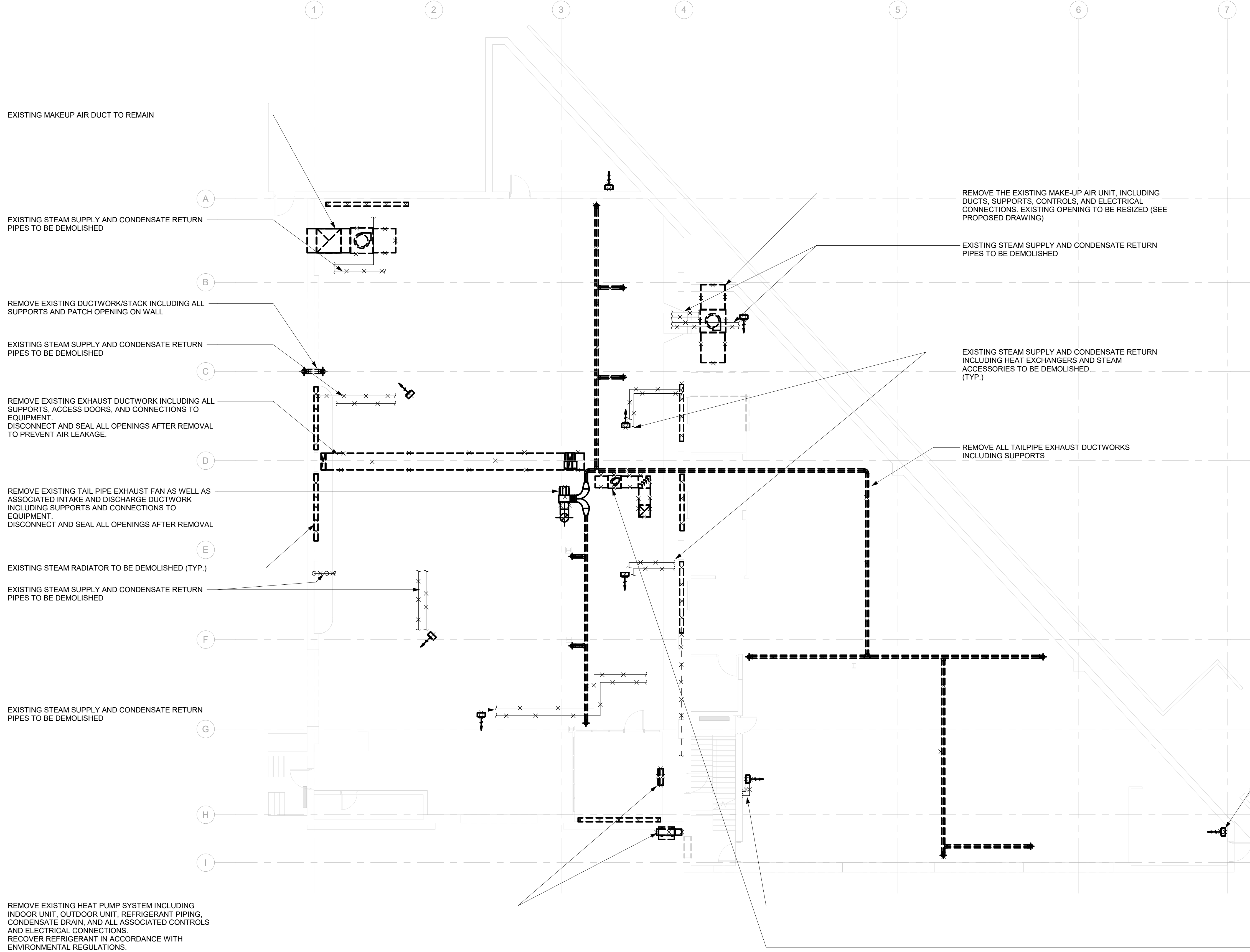
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1/16

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Scale 1:100

0 2.5 5 10 m




2 DEMOLITION PLAN - HVAC GROUND FLOOR
M1103 Scale: 1 : 100

- GENERAL NOTES:
1. CONTRACTOR TO VERIFY SITE PRIOR TO DEMOLITION AND REMOVAL. ANY DISCREPANCIES BETWEEN THE DRAWINGS AND SITE CONDITIONS, THE ENGINEER SHALL BE NOTIFIED FOR REDIRECTION.
 2. DEMOLITION AND REMOVAL PROCESS OF ALL EXISTING STEAM UNIT HEATERS, COILS, AND EQUIPMENT SHALL BE COORDINATED WITH THE FACILITY OPERATIONS TEAM FOR SHUTDOWN AND PREPARATION OF REMOVAL, INCLUDING PIPING, ELECTRICAL POWER, AND OTHER ACCESSORIES.
 3. DEMOLITION OF EXISTING STEAM PIPING AND CONDENSATE RETURN UP TO THE ISOLATION VALVE FROM THE STEAM BOILER ROOM SHALL BE COORDINATED WITH THE FACILITY OPERATIONS TEAM PRIOR TO SHUTDOWN AND REMOVAL.
 4. DEMOLITION AND REMOVAL PROCESS OF DX OR HEAT PUMP SYSTEMS SHALL INCLUDE ALL SUPPORTS, REFRIGERANT PIPING AND INSULATION, CONDENSATE PIPES, CONTROL WIRING, ELECTRICAL POWER SUPPLY, THERMOSTATS, AND REFRIGERANT CHARGE (BY CERTIFIED TECHNICIAN).
 5. ALL DUCTWORK TO BE DEMOLISHED SHALL INCLUDE ALL RELATED DUCTWORK COMPONENTS SUCH AS DAMPERS, SUPPORTS, ACCESS DOORS, AND GRILLES. EXISTING OPENINGS SHALL BE PATCHED AND REPAIRED WHERE MENTIONED.

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1116 KING STREET WEST

PROJECT NO:

30276606

DRAWN BY:

C. SU

CHECKED BY:

K. ALMOHAMED

PROJECT MGR:

N. LAYOUN

APPROVED BY:

R. BARROSO

SHEET TITLE

DEMOLITION PLAN -
HVAC GROUND FLOOR

SHEET NUMBER

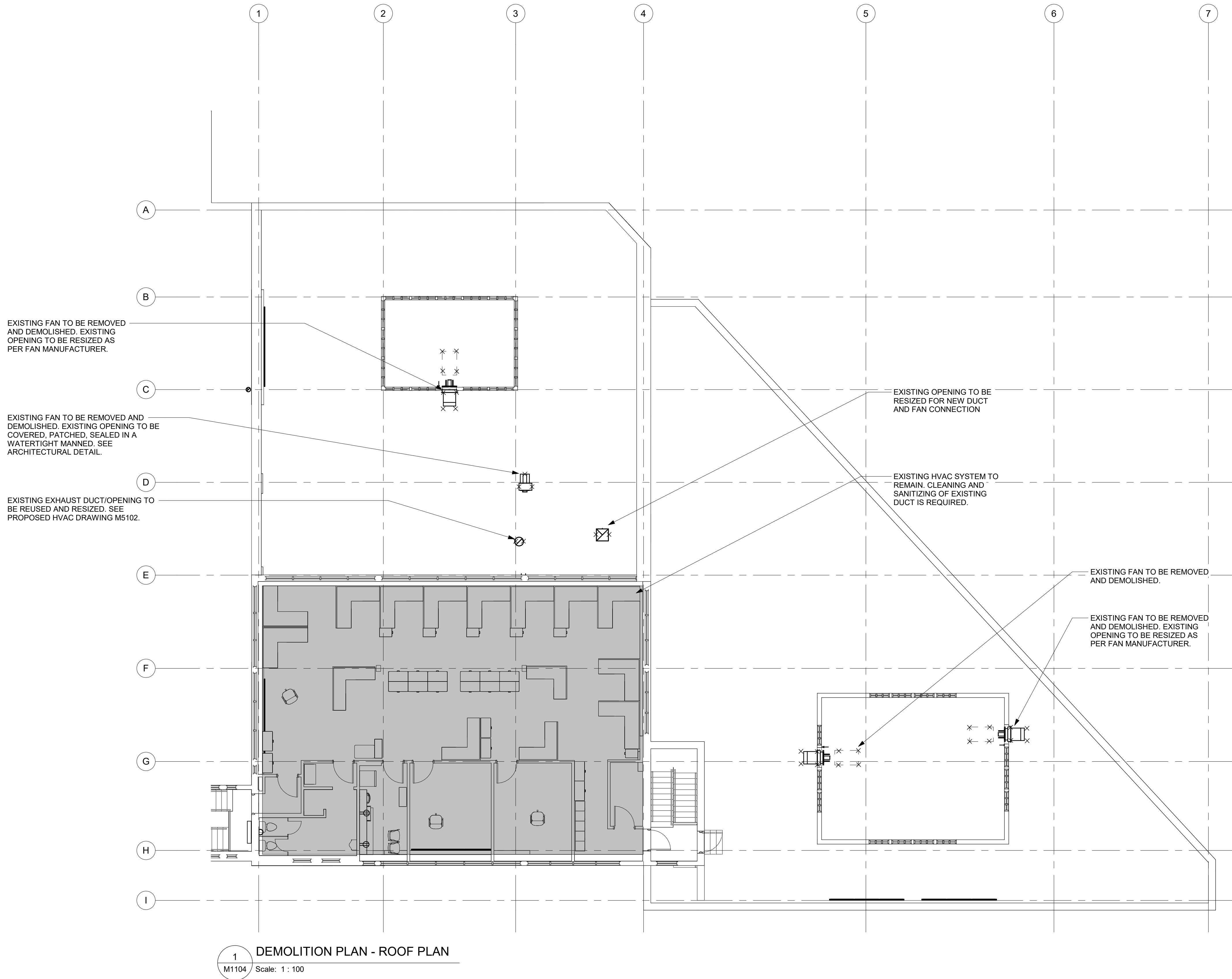
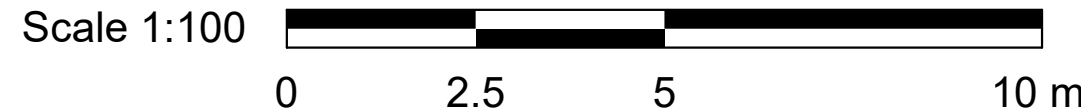
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PROJECT MGR:
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SHEET TITLE

**DEMOLITION PLAN -
ROOF PLAN**

SHEET NUMBER

M1104

ISSUE

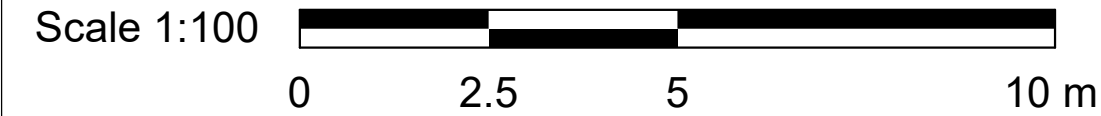
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10mm

SCALE CHECK
1:10

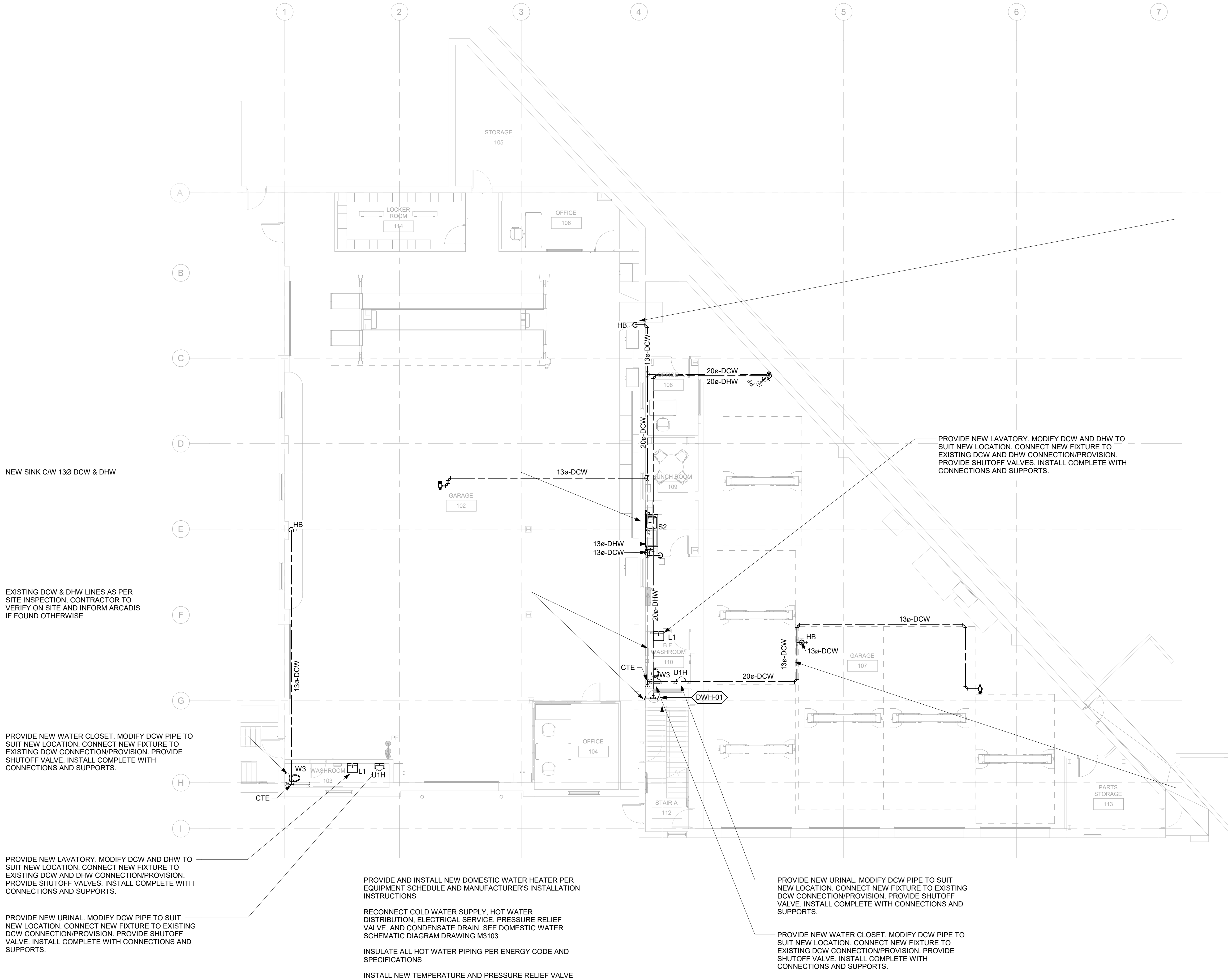
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1
M2101

GROUND FLOOR - PLUMBING

Scale: 1 : 100



- GENERAL NOTES:
- REFER TO SPECIFICATIONS FOR PLUMBING FIXTURE UNIT TYPES.
 - ALL NEW FIXTURES TO BE FITTED WITH ISOLATION VALVES.
 - SEE PLUMBING SCHEMATIC DIAGRAM IN DRAWING M3103.
 - PLUMBING SCOPE OF WORK SHALL INCLUDE PROVIDING NEW INSULATION TO EXISTING PIPING WITHIN THE GARAGE. IT HAS APPROXIMATELY 260 LINEAL METERS. PROVIDE SHOP DRAWING IDENTIFYING SPECIFIC PIPING TO BE INSULATED FOR ENGINEER'S REVIEW. SEE PIPING INSULATION SPECIFICATION FOR DETAILS.

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PROJECT TITLE
TORONTO PARAMEDIC SERVICES FLEET
MAINTENANCE STATION - UPGRADE
WORKS

PROJECT ADDRESS
**KING STREET YARD -
BUILDING NO. 8 & 9**
1116 KING STREET WEST

PROJECT NO:
30276606

DRAWN BY: C. SU	CHECKED BY: K. ALMOHAMED
PROJECT MGR: N. LAYOUN	APPROVED BY: R. BARROSO

SHEET TITLE
**PLUMBING - GROUND
FLOOR**

SHEET NUMBER M2101	ISSUE G
------------------------------	-------------------

SPLIT HEAT PUMP
CONDENSATE DRAIN TO
CONNECT TO NEAREST
SANITARY DRAIN LINE (TYP.)

CONNECT NEW FIXTURES IN
THIS AREA TO EXISTING SAN
PIPE CONNECTION/PROVISION

PROVIDE NEW URINAL. CONNECT TO
EXISTING SANITARY DRAINAGE URINAL
PROVISION. INSTALL COMPLETE WITH P-
TRAPS AND CONNECTION TO EXISTING SAN
VENT>40 MM. COORDINATE WITH
ARCHITECTURAL DRAWINGS FOR URINAL
INSTALLATION.

PROVIDE NEW WATER CLOSET.
CONNECT TO EXISTING SANITARY
DRAINAGE WATER CLOSET PROVISION.
COORDINATE WITH ARCHITECTURAL
DRAWINGS FOR WATER CLOSET
INSTALLATION.

1 DRAINAGE - GROUND FLOOR

M3101 Scale: 1 : 100

Scale 1:100 0 2.5 5 10 m

- GENERAL NOTES:
- REFER TO SPECIFICATIONS FOR PLUMBING FIXTURE UNIT TYPES.
 - ALL NEW FLOOR DRAINS SHALL BE C/W P-TRAP AND PRIMER.
 - PROVIDE FIRE STOP FOR ALL PIPE PENETRATIONS THROUGH FIRE SEPARATIONS.
 - ALL UNDERGROUND SANITARY PIPING SHALL BE MINIMUM 75mmØ UNLESS OTHERWISE NOTED.
 - SEE ARCHITECTURAL AND STRUCTURAL DRAWINGS FOR FLOOR SLOPING TO CATCH BASIN AND FLOOR DRAINS.
 - ALL STORMWATER PIPES SHALL BE FLOW TESTED. JET FLUSH WHERE NECESSARY.

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CHECKED BY:
K. ALMOHAMED

PROJECT MGR:
N. LAYOUN

APPROVED BY:
R. BARROSO

SHEET TITLE

DRAINAGE - GROUND
FLOOR

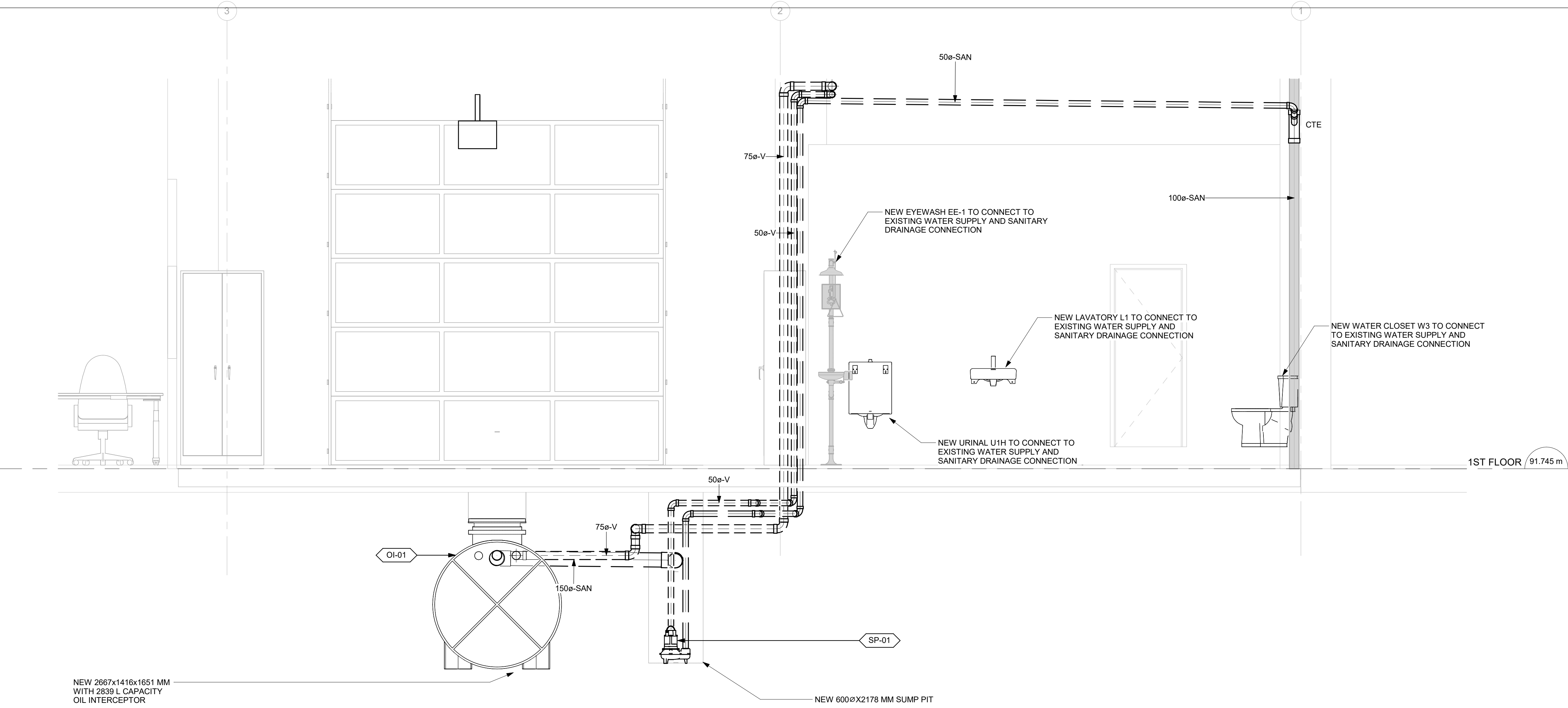
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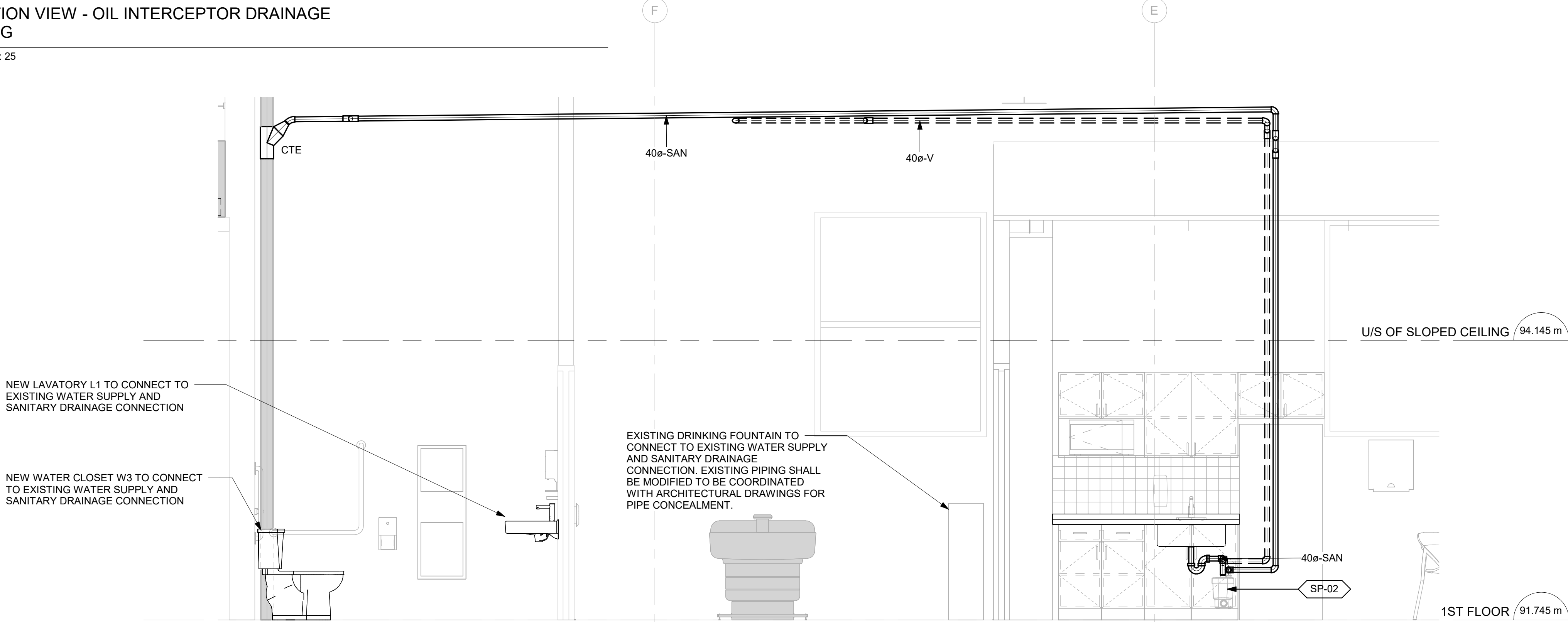
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SECTION VIEW - OIL INTERCEPTOR DRAINAGE PIPING

1
M3102 Scale: 1 : 25



SECTION VIEW - B.F. WASHROOM 110 AND LUNCH ROOM 109 DRAINAGE PIPING

2
M3102 Scale: 1 : 25

NOTES:
1. ALL PLUMBING FIXTURES TO CONNECT TO EXISTING PLUMBING AND SANITARY DRAINAGE CONNECTION PROVISION.

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R. BARROSO

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**DRAINAGE - GROUND
FLOOR SECTION VIEWS**

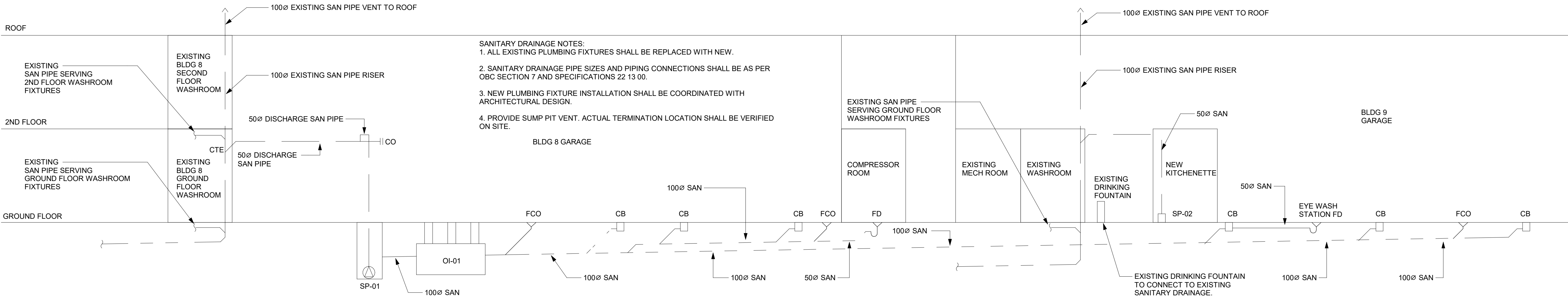
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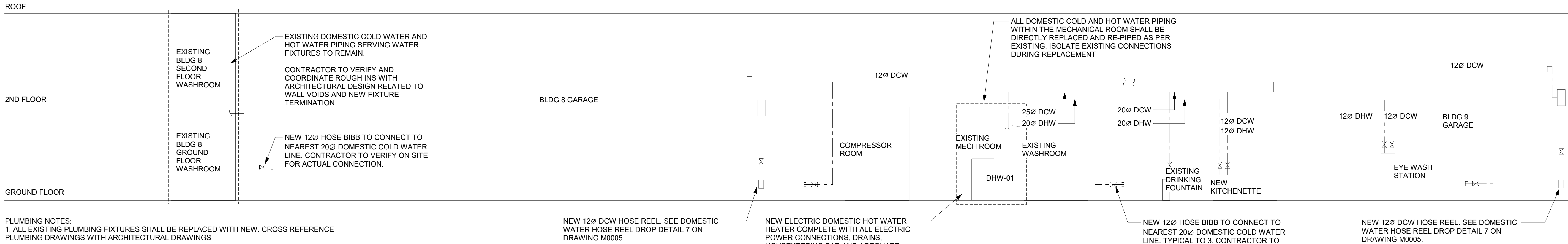
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1
M3103 Scale: NTS

SANITARY DRAINAGE SCHEMATIC DIAGRAM



3
M3103 Scale: NTS

DOMESTIC WATER SCHEMATIC DIAGRAM 1

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SHEET TITLE

**PLUMBING & DRAINAGE
SCHEMATIC DIAGRAMS**

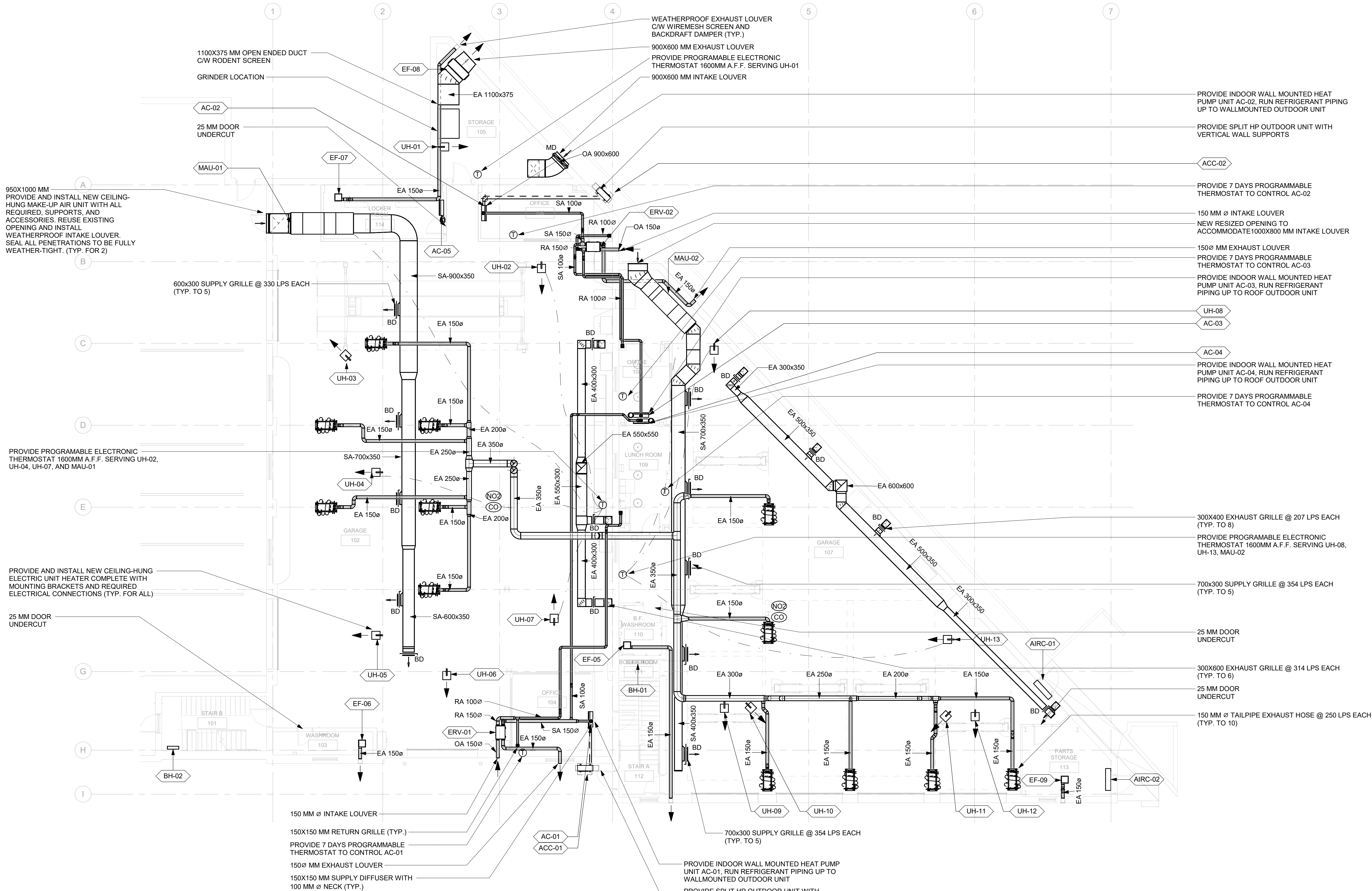
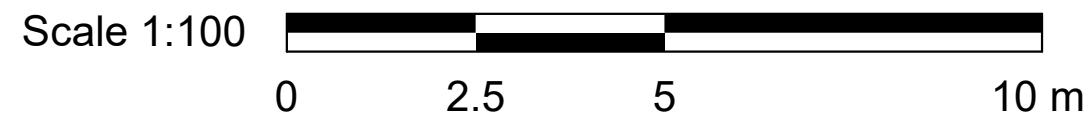
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1 HVAC GROUND FLOOR
M5101 Scale: 1 : 100

- GENERAL NOTES:
1. ADD AND ADJUST DUCTS TO FIT NEW DIFFUSERS/GRILLES.
 2. THERMOSTATS TO BE MOUNTED AT 1200mm A.F.F.

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E	ISSUED FOR PERMIT	2025-12-09
F	ISSUED FOR TENDER	2025-12-09
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PROVIDE INDOOR WALL MOUNTED HEAT PUMP UNIT AC-02, RUN REFRIGERANT PIPING UP TO WALLMOUNTED OUTDOOR UNIT

PROVIDE SPLIT HP OUTDOOR UNIT WITH VERTICAL WALL SUPPORTS

PROVIDE 7 DAYS PROGRAMMABLE THERMOSTAT TO CONTROL AC-02

150 MM Ø INTAKE LOUVER
NEW RESIZED OPENING TO ACCOMMODATE 1000X800 MM INTAKE LOUVER

150Ø MM EXHAUST LOUVER
PROVIDE 7 DAYS PROGRAMMABLE THERMOSTAT TO CONTROL AC-03

PROVIDE INDOOR WALL MOUNTED HEAT PUMP UNIT AC-03, RUN REFRIGERANT PIPING UP TO ROOF OUTDOOR UNIT

UH-08
AC-03

PROVIDE INDOOR WALL MOUNTED HEAT PUMP UNIT AC-04, RUN REFRIGERANT PIPING UP TO ROOF OUTDOOR UNIT

PROVIDE 7 DAYS PROGRAMMABLE THERMOSTAT TO CONTROL AC-04

300X400 EXHAUST GRILLE @ 207 LPS EACH (TYP. TO 8)

PROVIDE PROGRAMABLE ELECTRONIC THERMOSTAT 1600MM A.F.F. SERVING UH-08, UH-13, MAU-02

700X300 SUPPLY GRILLE @ 354 LPS EACH (TYP. TO 5)

25 MM DOOR UNDERCUT

300X600 EXHAUST GRILLE @ 314 LPS EACH (TYP. TO 6)

25 MM DOOR UNDERCUT

150 MM Ø TAILPIPE EXHAUST HOSE @ 250 LPS EACH (TYP. TO 10)

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PROJECT TITLE
TORONTO PARAMEDIC SERVICES FLEET
MAINTENANCE STATION - UPGRADE
WORKS

PROJECT ADDRESS

KING STREET YARD -
BUILDING NO. 8 & 9
1116 KING STREET WEST

PROJECT NO:
30276606

DRAWN BY:
C. SU

CHECKED BY:
K. ALMOHAMED

PROJECT MGR:
N. LAYOUN

APPROVED BY:
R. BARROSO

SHEET TITLE
HVAC - GROUND FLOOR

SHEET NUMBER

M5101

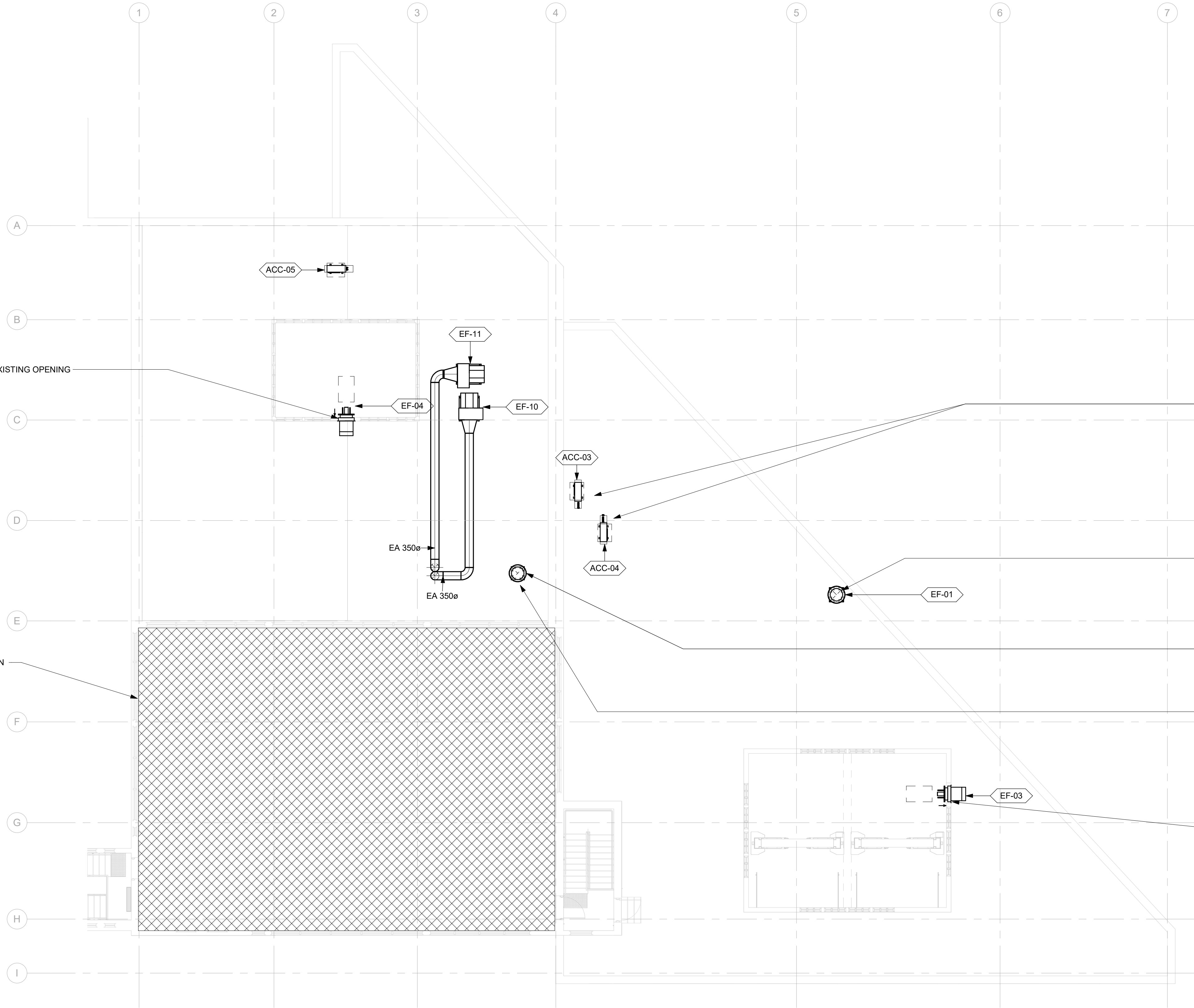
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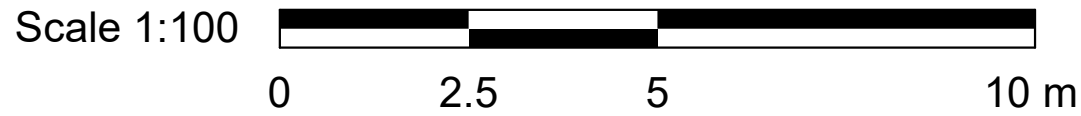
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1/16

SCALE CHECK
1/16



1 HVAC - ROOF PLAN
M5102 Scale: 1 : 100



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Project Management Office
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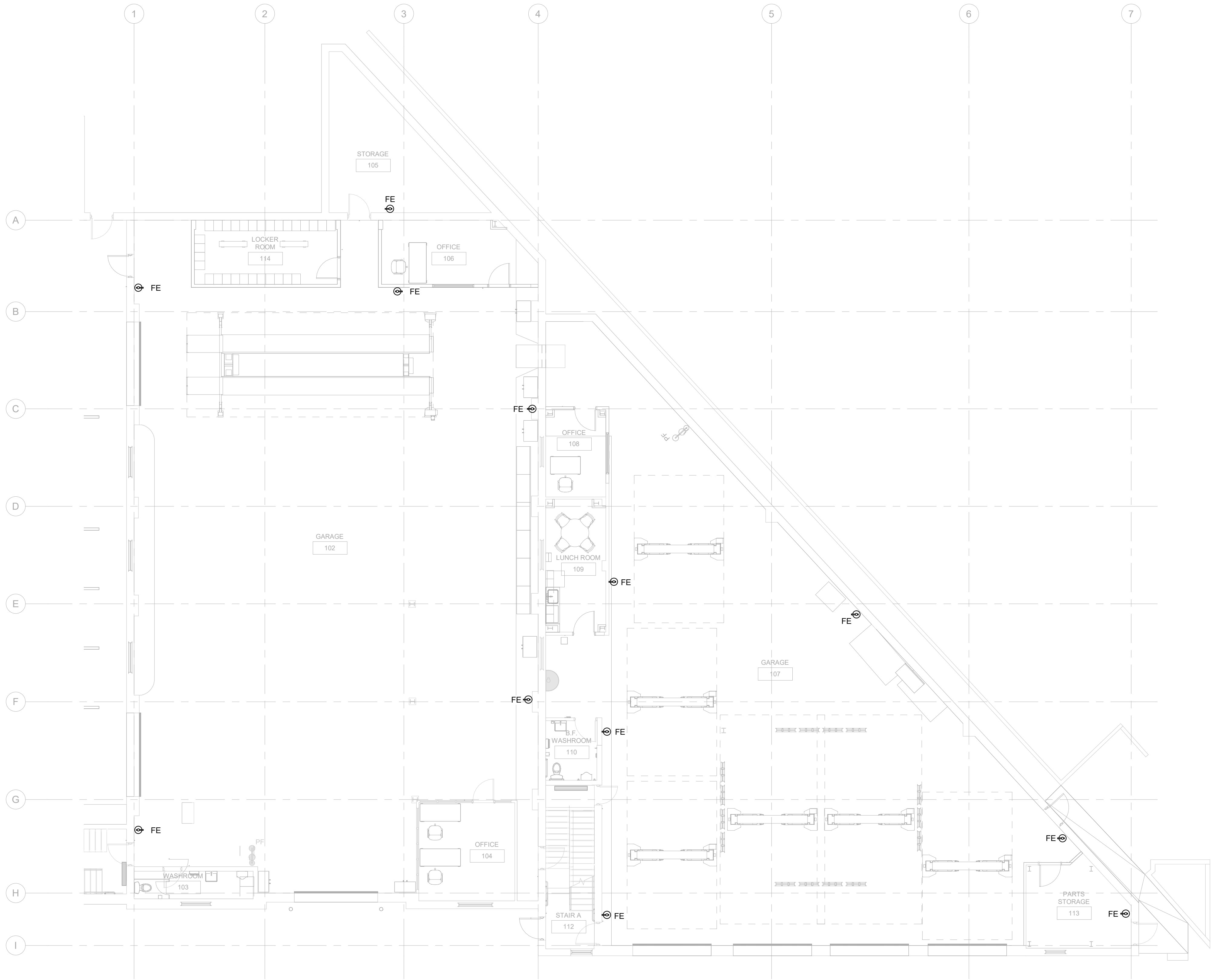
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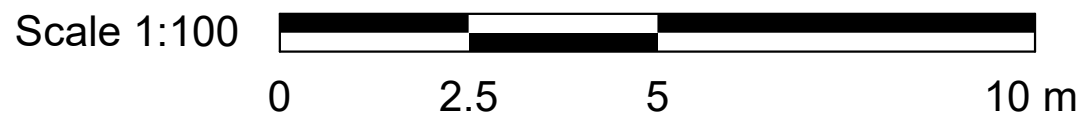
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DRAWN BY: C. SU	CHECKED BY: K. ALMOHAMED
PROJECT MGR: N. LAYOUN	APPROVED BY: R. BARROSO

SHEET TITLE
HVAC - ROOF PLAN

SHEET NUMBER M5102	ISSUE G
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1 FIRE PROTECTION - GROUND FLOOR
M6101 Scale: 1 : 100



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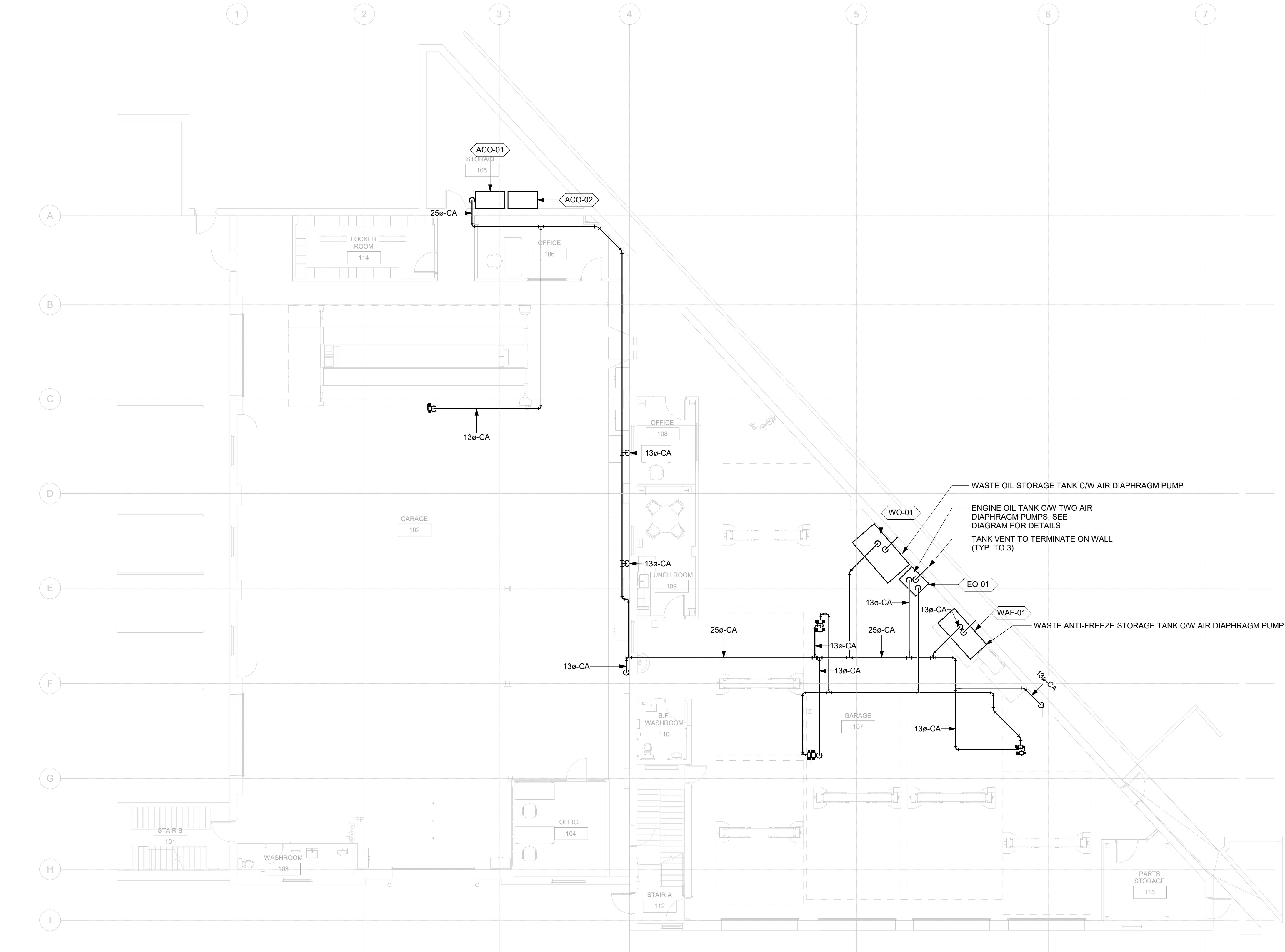
**FIRE PROTECTION -
GROUND FLOOR**

SHEET NUMBER

M6101

ISSUE

G



1 PROCESS - GROUND FLOOR PLAN
M7101 Scale: 1 : 100

NOTES:
1. ALL TANKS SHALL BE INSTALLED ON A 100 MM HIGH HOUSEKEEPING PAD WITH 150 CLEARANCE ALL AROUND.



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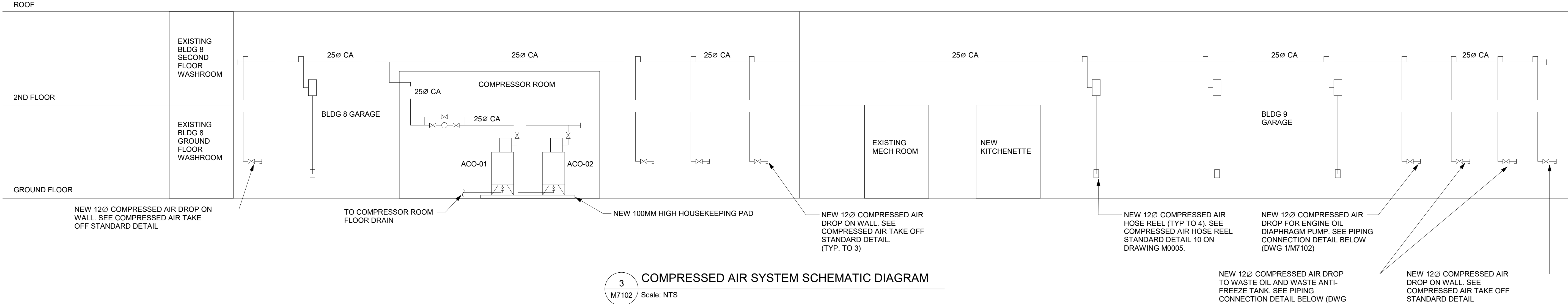
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**PROCESS - GROUND
FLOOR**

SHEET NUMBER

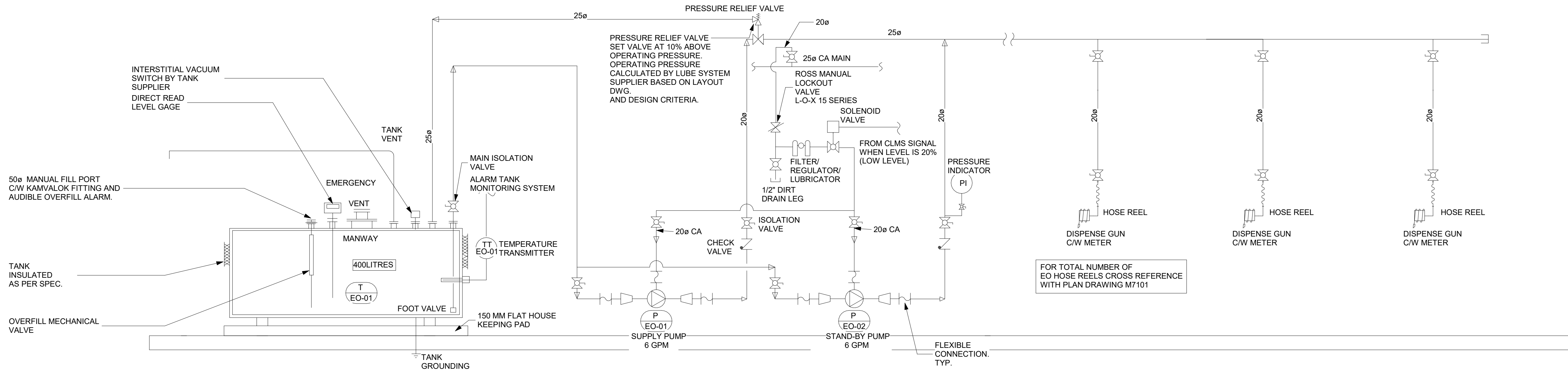
M7101

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3
M7102 Scale: NTS
COMPRESSED AIR SYSTEM SCHEMATIC DIAGRAM



TANK TAG	FLUID NAME	TANK CAPACITY	TANK INSULATED & HEATED	PIPING INSULATED & HEATED	MAINTAIN TEMPERATURE	TEMPERATURE TRANSMITTER	RESPECTIVE TANK LUBE PUMPS TAGS	PUMPS TYPE	TANK MATERIAL	REMARKS
T-EO-01	ENGINE OIL	400 L	YES	NO	10°C	TT-EO-01	P-EO-01 P-EO-02	DISPLACEMENT	CS DOUBLE WALL	

- NOTE: PLEASE SEE DRAWING M7101 FOR ENGINE OIL SYSTEM LAYOUT
- NOT ALL COMPONENTS SHOWN IN THIS DWG. REPRESENTS A GENERIC ENGINE OIL STORAGE AND DISPENSING SYSTEM INDICATING THE MINIMUM REQUIRED FEATURES.
 - THIS SCHEMATIC SHALL BE USED ONLY AS A REFERENCE FOR DESIGN INTENT AND FOR THE SCOPE OF WORK. SYSTEM SUPPLIER SHALL PROVIDE SHOP DWG'S INDICATING A COMPLETE SYSTEM, DESIGNED AS PER APPLICABLE CODES REQUIREMENTS AND GOOD ENGINEERING PRACTICE.
 - READ THIS DWG. IN CONJUNCTION WITH APPLICABLE SPECIFICATIONS SECTIONS FOR COMPLETE SYSTEM REQUIREMENTS.
 - ALL PIPE SIZES SHOWN TO BE CONFIRMED DURING DETAILED DESIGN BY SYSTEM SUPPLIER.
 - SIZING CRITERIA FOR ENGINE OIL COMPRESSED AIR DISPLACEMENT PUMPS: MUST BE CAPABLE OF SUPPLYING 1.5 GPM (6 LPM) SIMULTANEOUSLY AT 4 DISPENSING LOCATIONS FOR A TOTAL OF 6 GPM (24 LPM).

ENGINE OIL SYSTEM VENDOR/SUPPLIER TO PROVIDE COMPLETE WITH ENGINE OIL SYSTEM PACKAGE. ENGINE OIL SYSTEM SUPPLIER/VENDOR TO COORDINATE WITH GENERAL CONTRACTOR FOR CONTROLS AND POWER WIRING INSTALLATION AND SCOPE OF WORK BASED ON ENGINE OIL SYSTEM SHOP DWG'S.

- PUMPS INTERLOCKS:
- PUMPS INTERLOCKED WITH EMERGENCY PUSH BUTTONS FOR LUBE DISPENSING.
 - WHEN ANY ONE EMERGENCY STOP BUTTON IS PRESSED ALL ENGINE OIL PUMPS ARE STOPPED.

1
M7102 Scale: NTS
ENGINE OIL SYSTEM SCHEMATIC DIAGRAM

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SHEET TITLE

**COMPRESSED AIR &
ENGINE OIL SCHEMATIC
DIAGRAMS**

SHEET NUMBER

M7102

ISSUE

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