

PIPING SYMBOL LEGEND	
	HEATING WATER SUPPLY PIPING
	HEATING WATER RETURN PIPING
	HEATING GLYCOL SUPPLY PIPING
	HEATING GLYCOL RETURN PIPING
	VENT PIPING
	DRAIN PIPING
	DOMESTIC COLD WATER
	DOMESTIC HOT WATER
	COMPRESSED AIR
	CONNECTION TO EXISTING
	90° ELBOW FITTING
	TEE FITTING
	45° ELBOW FITTING
	TEE FITTING DOWN
	TOP BRANCH FITTING
	ISOLATION VALVE
	NORMALLY CLOSED ISOLATION VALVE
	LOCKSHIELD VALVE
	STRAINER
	PIPE UNION
	CONCENTRIC REDUCER
	2-WAY ELECTRONIC CONTROL VALVE
	3-WAY ELECTRONIC CONTROL VALVE
	CHECK VALVE
	FLOW SENSOR
	RELIEF VALVE
	PRESSURE GAUGE
	THERMOMETER
	AUTOMATIC AIR VENT
	PIPE CAP
	CIRCUIT BALANCING VALVE
	FLEX CONNECTION
	VACUUM BREAKER
	VARIABLE FREQUENCY DRIVE
	TRIPLE DUTY VALVE
	SUCTION GUIDE
	WATER METER
	GLOBE VALVE
	PRESSURE REGULATING VALVE
	BACK PRESSURE REGULATING VALVE
	SINGLE BASKET STRAINER
	PUMP
	TEMPERATURE SENSOR c/w THERMO-WELL, INSTALL THERMO-WELLS PROVIDED BY CONTROLS CONTRACTOR
	HOSE BIBB
	(NF) INDICATES NOT FREEZE

VENTILATION SYMBOL LEGEND	
	RECTANGULAR DUCTWORK
	ROUND DUCTWORK
	FLEXIBLE DUCT CONNECTION
	TRANSITION PIECE FROM RECTANGULAR TO ROUND DUCTWORK
	ROUND DUCT UP
	ROUND DUCT DOWN
	RECTANGULAR SUPPLY DUCT UP
	RECTANGULAR RETURN DUCT UP
	RECTANGULAR SUPPLY DUCT DOWN
	RECTANGULAR RETURN DUCT DOWN
	ACOUSTICALLY INSULATED DUCTWORK
	FRESH AIR
	RETURN AIR
	SUPPLY AIR
	EXHAUST AIR
	SUPPLY DIFFUSER
	DUCTED RETURN GRILLE
	DUCTED EXHAUST GRILLE
	PLENUM RETURN GRILLE
	FAN COIL C/W RETURN AIR PLENUM
	VAV BOX
	HOT WATER REHEAT COIL
	MOTORIZED DAMPER
	BALANCING DAMPER
	FIRE DAMPER
	DIFFUSER / GRILLE DESIGNATION
	AIRFLOW (LPS)

CONTROLS SYMBOL LEGEND	
	FAN
	MOTORIZED DAMPER
	AIR FILTER
	COOLING COIL
	HEATING COIL
	DIFFERENTIAL PRESSURE
	TEMPERATURE SENSOR
	STATIC PRESSURE SENSOR
	AIR PRESSURE SENSOR
	POWER WIRING
	CONTROL WIRING
	VARIABLE FREQUENCY DRIVE
	CURRENT TRANSDUCER
	RELAY
	DDC SENSOR-BAS CONTRACTOR
	OCCUPANCY SENSOR
	TEMPERATURE SENSOR
	SLAB SENSOR
	LOW LEVEL SENSOR
	CARBON MONOXIDE SENSOR
	NITROGEN DIOXIDE SENSOR
	BINARY OUTPUT
	BINARY INPUT
	ANALOG OUTPUT
	ANALOG INPUT

EQUIPMENT TAGS	
P-#	PUMP TAG
HRV-#	ENERGY RECOVERY TAG
HX-#	HEAT EXCHANGER TAG
B-#	BOILER TAG
ET-#	EXPANSION TANK TAG
GFT-#	GLYCOL FILL TANK TAG
HP-#	HEAT PUMP TAG

LIST OF DRAWINGS – MECHANICAL

M01	MECHANICAL SITE PLAN AND LEGENDS
M02	FIRE PROTECTION FLOOR PLAN AND MEZZANINE
M03	FIRE PROTECTION DETAILS
M04	PLUMBING AND DOMESTIC SERVICES FLOOR PLAN AND MEZZANINE
M05	VENTILATION FLOOR PLAN AND MEZZANINE
M06	HEATING FLOOR PLAN AND MEZZANINE
M07	HEATING SYSTEM SCHEMATIC AND DETAILS
M08	MECHANICAL SCHEDULES AND DETAILS



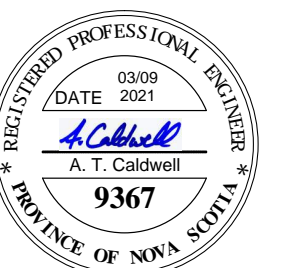
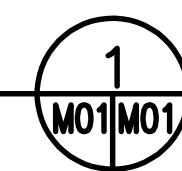
MECHANICAL SITE PLAN

SCALE : 1:250

0m 5m 10m 15m 20m 25m

MECHANICAL LEGENDS

SCALE : N.T.S.



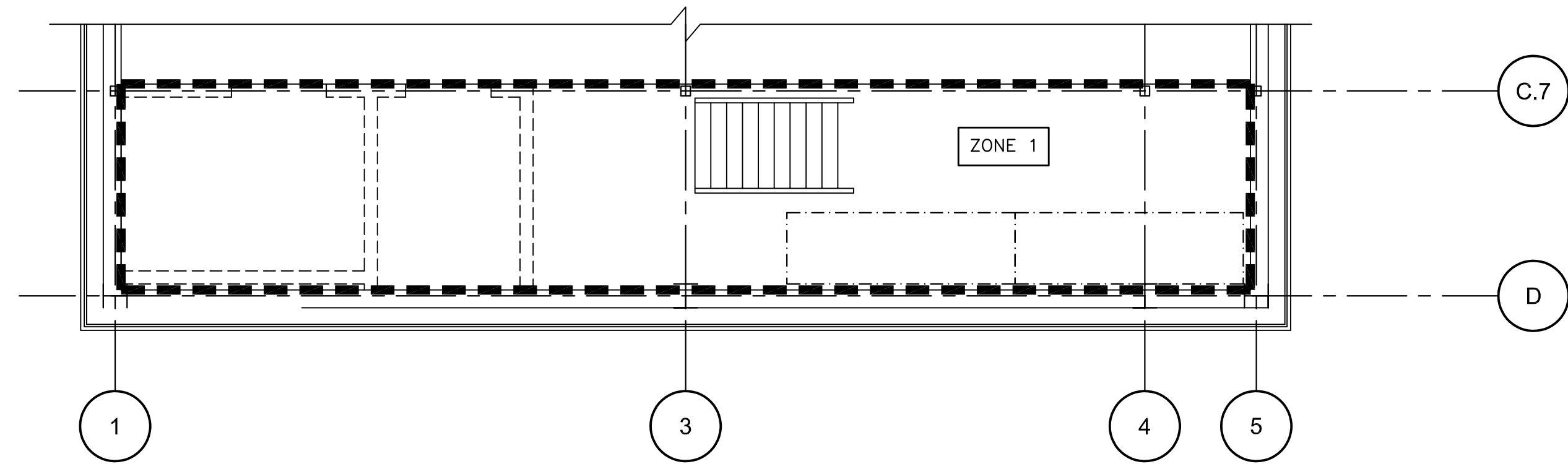
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3	ISSUED FOR TENDER	02/18 2021
2	99%-RS4 SUBMISSION	01/29 2021
1	75%-RS4 SUBMISSION	12/16 2020
0	SCHEMATIC DESIGN	10/14 2020

project **MCI HEAVY EQUIPMENT FACILITY** project

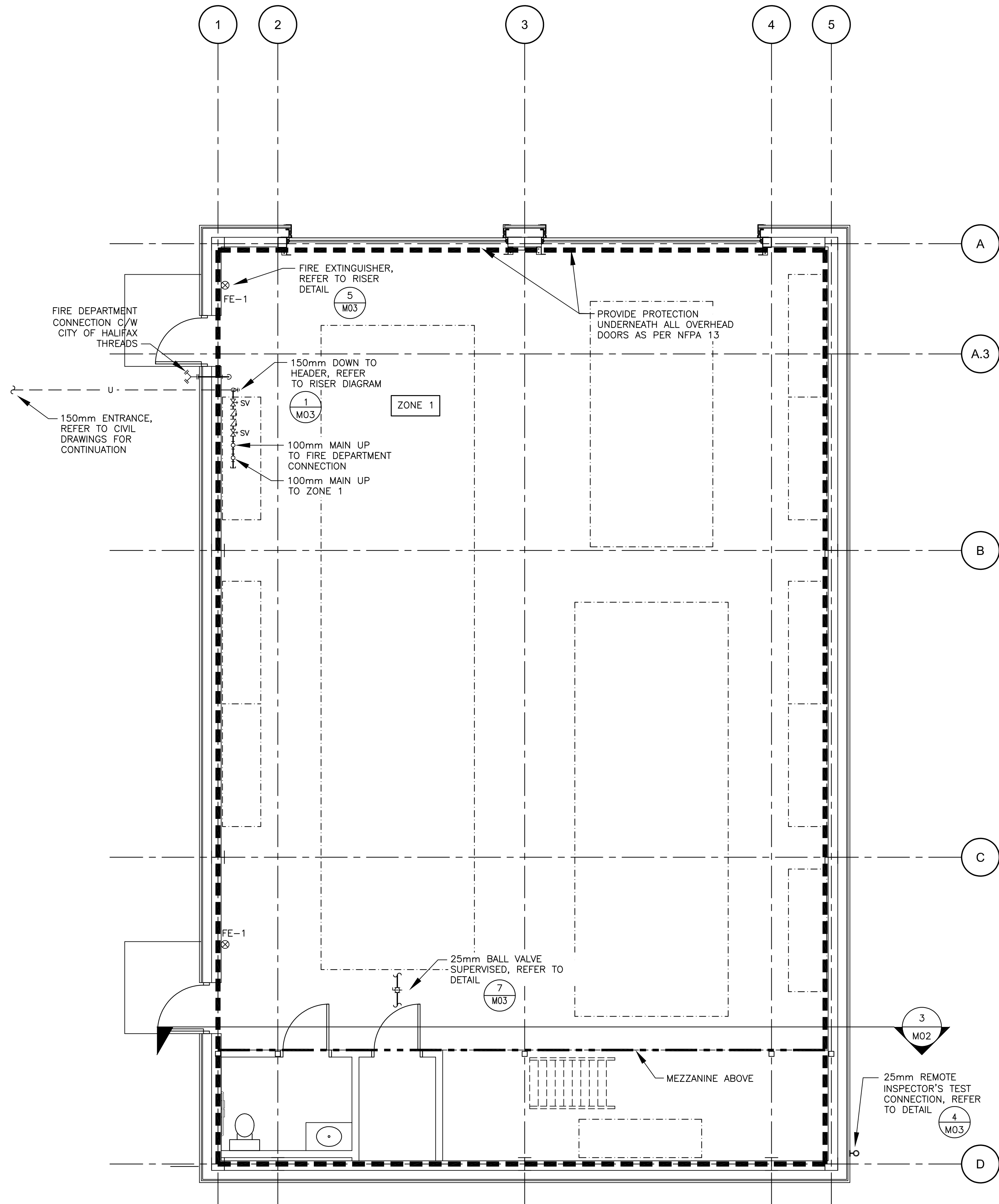
BIO DARTMOUTH

drawing **MECHANICAL SITE PLAN AND LEGENDS** dessin

designed	A.C.	conçu
date	NOVEMBER 2020	
drawn	R.P.A.	dessiné
date	NOVEMBER 2020	
approved	A.C.	approuvé
date	NOVEMBER 2020	
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PWGSC Project Manager	Administrateur de projets TPSC	
project number	R.110935.001	no. du projet
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MEZZANINE PLAN - FIRE PROTECTION 2 M02
SCALE : 1:50



FLOOR PLAN - FIRE PROTECTION 1 M02
SCALE : 1:50

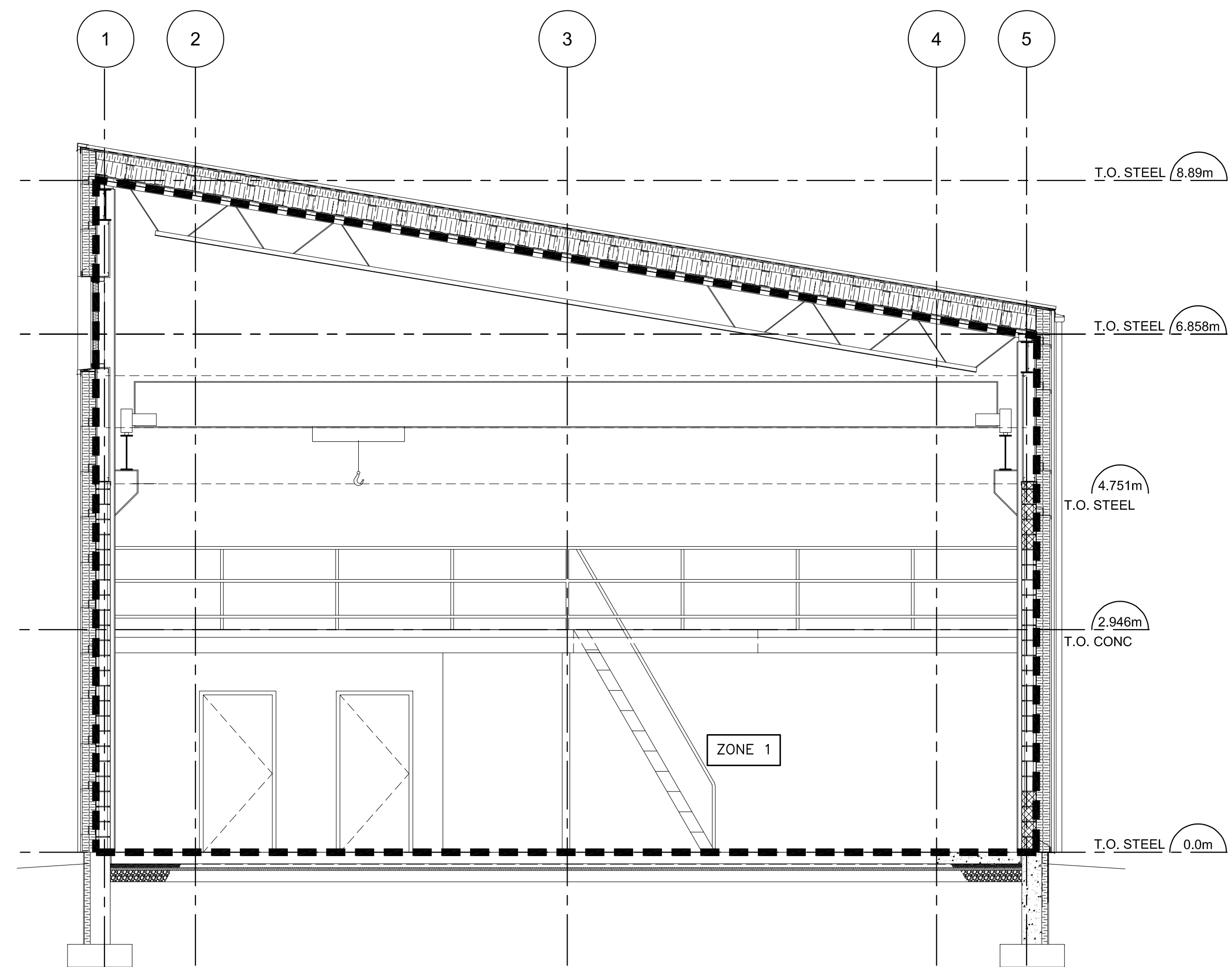
DESIGN APPROACH

THE FOLLOWING DESIGN CRITERIA SHALL BE FOLLOWED:
ZONE 1 - FLOOR & MEZZANINE
DESIGN USING WET PIPE SYSTEM IN ACCORDANCE WITH THE REQUIREMENTS OF NBC 2015, NFC 2015, NPC 2015, NFPA10 2013, NFPA13 2013, NFPA25 2014 AND AUTHORITY HAVING JURISDICTION.

LIGHT HAZARD (OFFICES):
DENSITY: 4.1 LPM/M²
DESIGN AREA: 139 M²
I/O HOSE ALLOWANCE: 379 LPM

ORDINARY HAZARD GROUP 1 (MECH/ELEC ROOM, GARAGE):
DENSITY: 6.1 LPM/M²
DESIGN AREA: 139 M²
I/O HOSE ALLOWANCE: 946 LPM

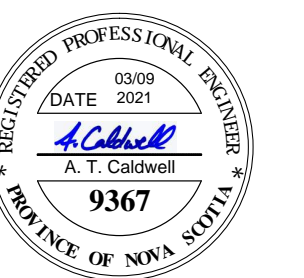
GENERAL NOTES
A.) INSTALL SPRINKLERS AS PER NFPA13, VERIFY CONCEALED AND COMBUSTIBLE SPACES.
B.) DESIGN SHALL BE COORDINATED WITH ARCHITECTURAL DRAWINGS AND OTHER DISCIPLINES.
C.) SITE INSTALLATION SHALL BE COORDINATED WITH OTHER TRADES.



CROSS SECTION - FIRE PROTECTION 3 M02
SCALE : 1:50

- SV SV
DOUBLE CHECK VALVE ASSEMBLY
BACKFLOW PREVENTER, SUPERVISED
- SV
ISOLATION VALVE ON A VERTICAL,
SUPERVISED
- SV
BALL VALVE, SUPERVISED
- SV
SWING CHECK VALVE C/W 15mm
BALL DRIP
- FE-1
FIRE DEPARTMENT CONNECTION C/W
CAPS & CHAINS AND WALL PLATE TO
READ "AUTO-SPK"
- F
4.5KG FIRE EXTINGUISHER
MULTIPURPOSE DRY CHEMICAL ABC
C/W WALL HOOK
- U
FIRE PROTECTION PIPE
- U
UNDERGROUND PIPE
- U
PIPING DOWN
- U
TEE UP
- ZONE BOUNDARY

SYMBOL LEGEND - FIRE PROTECTION 4 M02
SCALE : NTS



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revisions		date

project MCI HEAVY
EQUIPMENT FACILITY

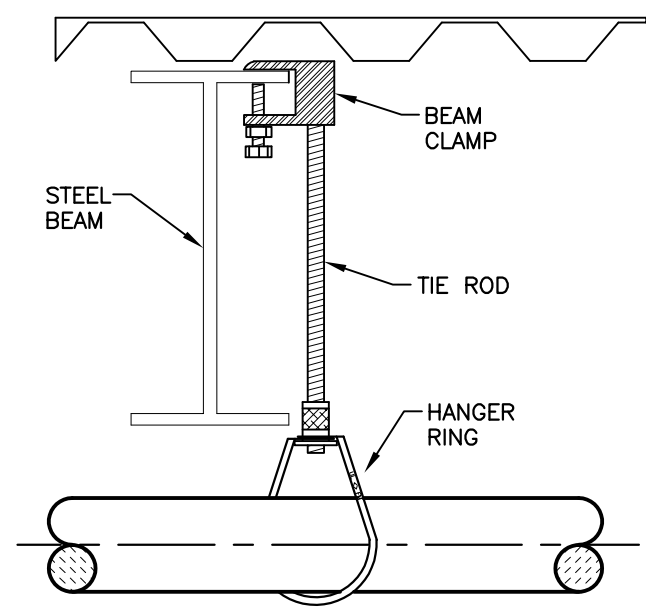
BIO DARTMOUTH

drawing FIRE PROTECTION
FLOOR PLAN AND
MEZZANINE

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APPROX. NORTH

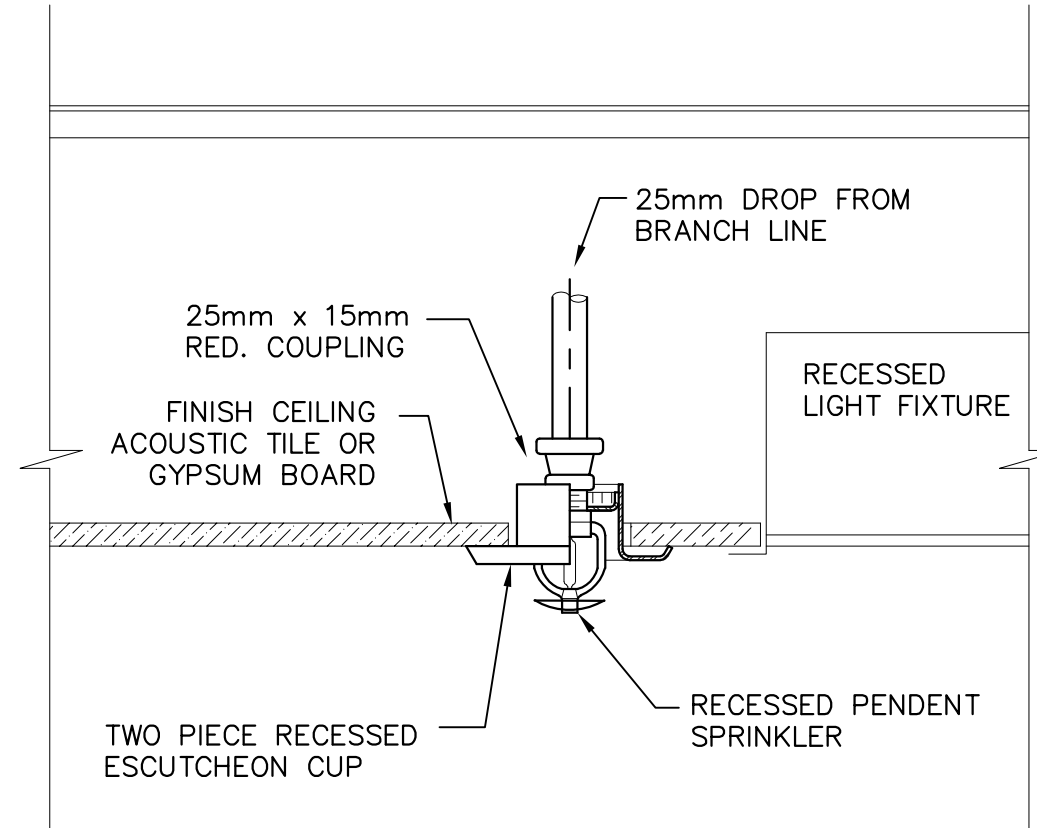


HANGER DETAIL

SCALE : N.T.S.

6

M03

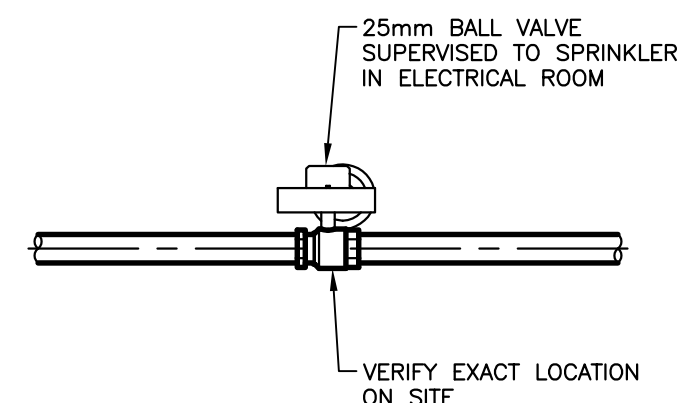


RECESSED PENDENT SPRINKLER DETAIL

SCALE : N.T.S.

3

M03

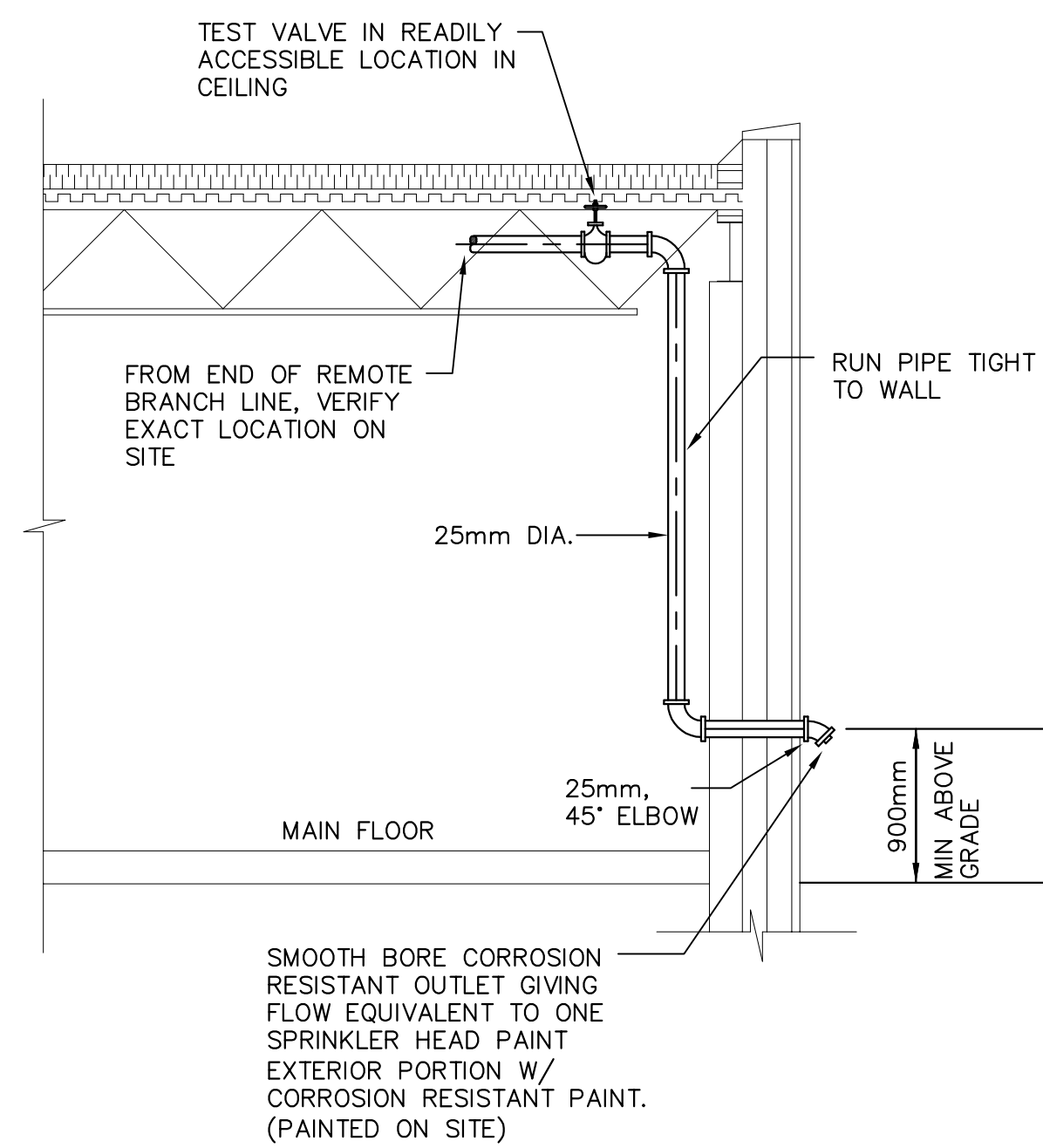


ISOLATION VALVE DETAIL

SCALE : N.T.S.

7

M03

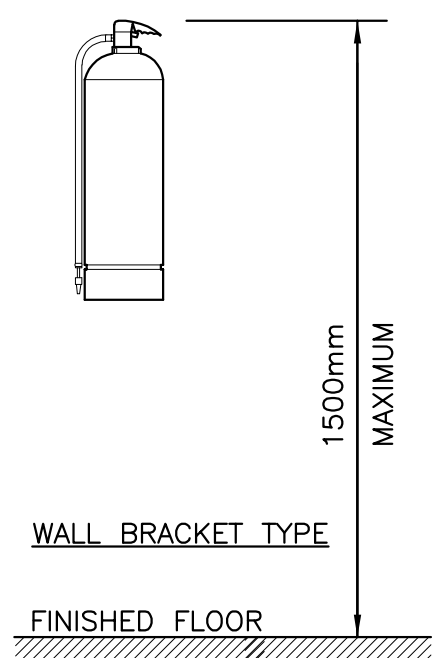


REMOTE INSPECTOR'S TEST DETAIL (WET)

SCALE : N.T.S.

4

M03

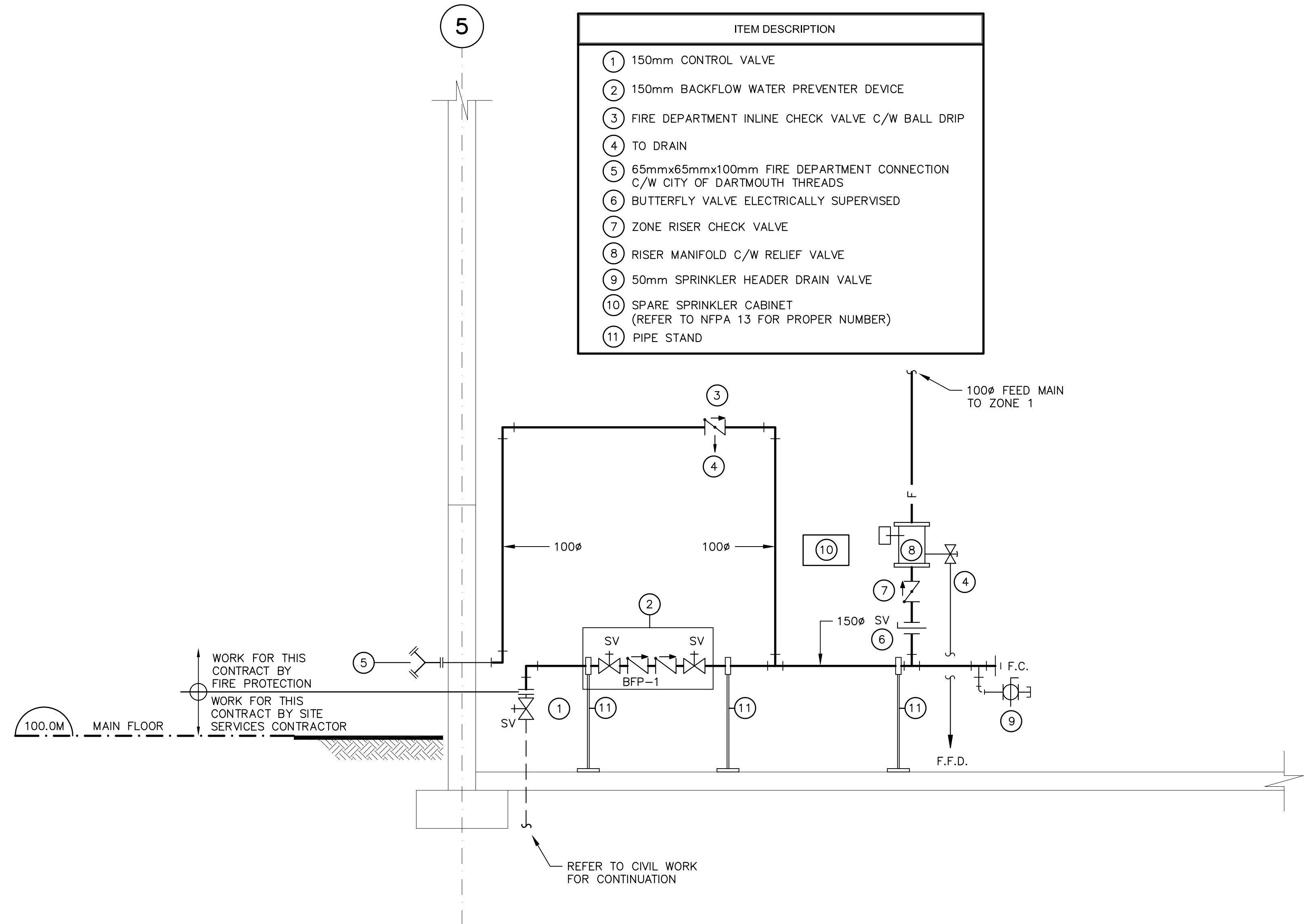


FIRE EXTINGUISHER DETAIL

SCALE : N.T.S.

5

M03

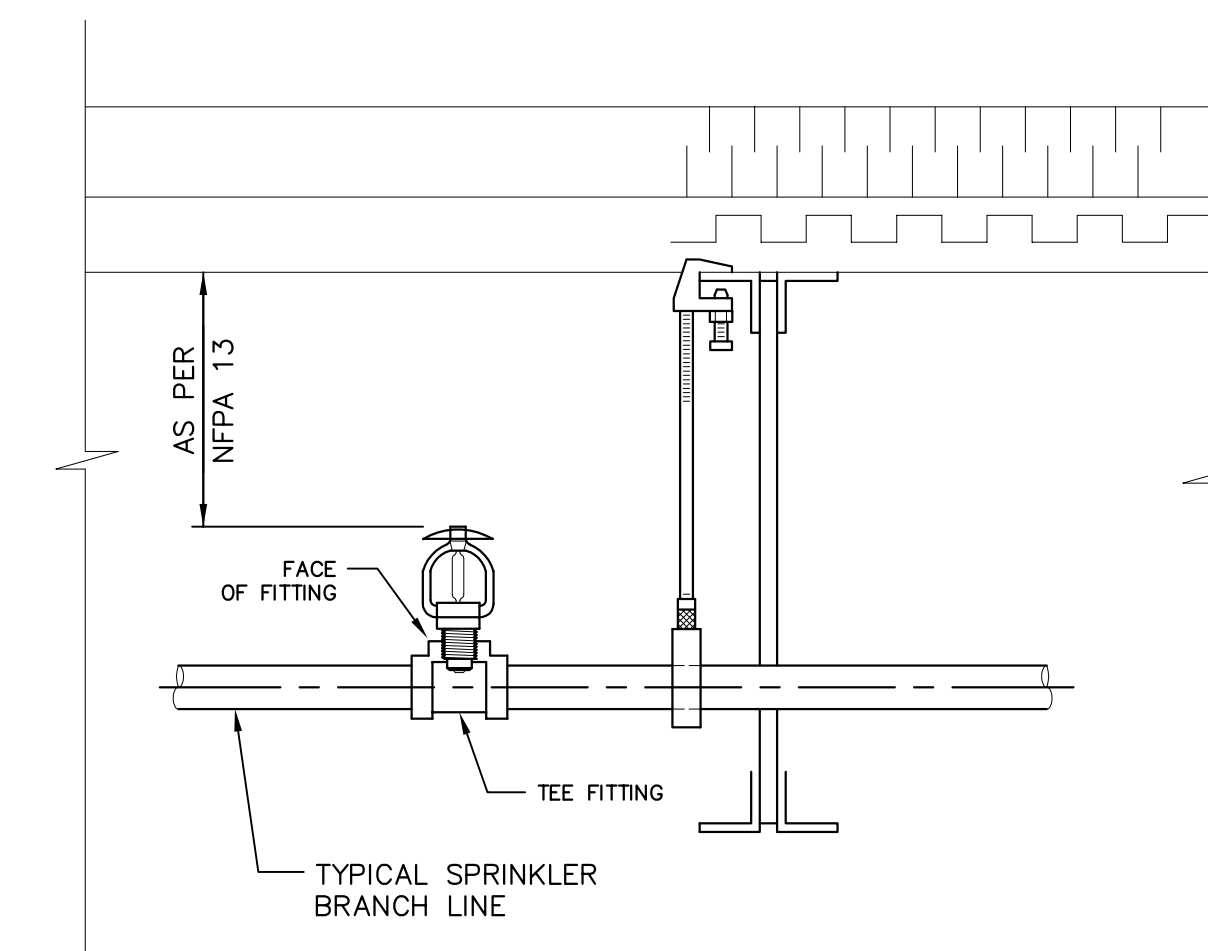


RISER DIAGRAM SCHEMATIC

SCALE : N.T.S.

1

M03

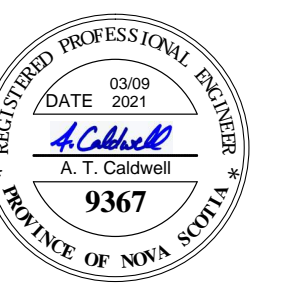


UPRIGHT SPRINKLER DETAIL

SCALE : N.T.S.

2

M03



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project MCI HEAVY EQUIPMENT FACILITY

BIO DARTMOUTH

drawing FIRE PROTECTION DETAILS

designed H.A.C. conçu

date NOVEMBER 2020

drawn H.A.C. dessiné

date NOVEMBER 2020

approved A.C. approuvé

date NOVEMBER 2020

Tender Soumission

PWGSC Project Manager Administrateur de projets TPSC

project number no. du projet

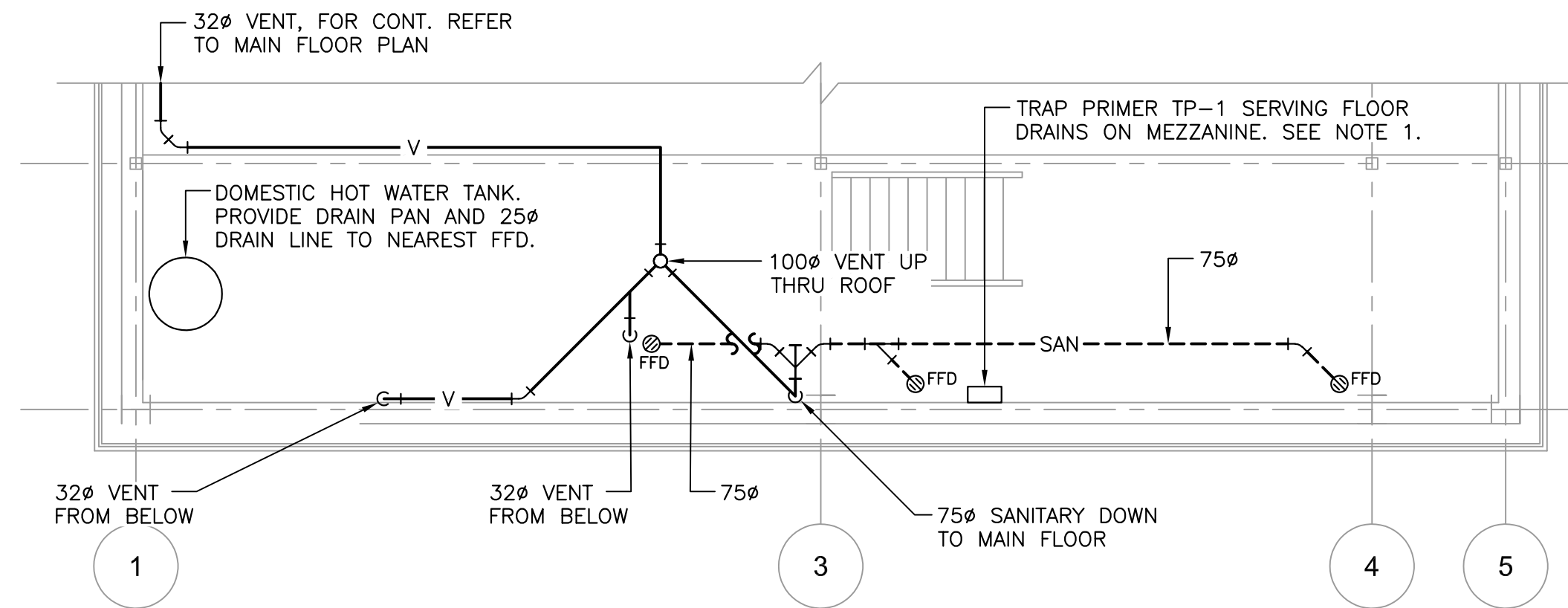
R.110935.001

drawing no. no. du dessin

M03 OF 08

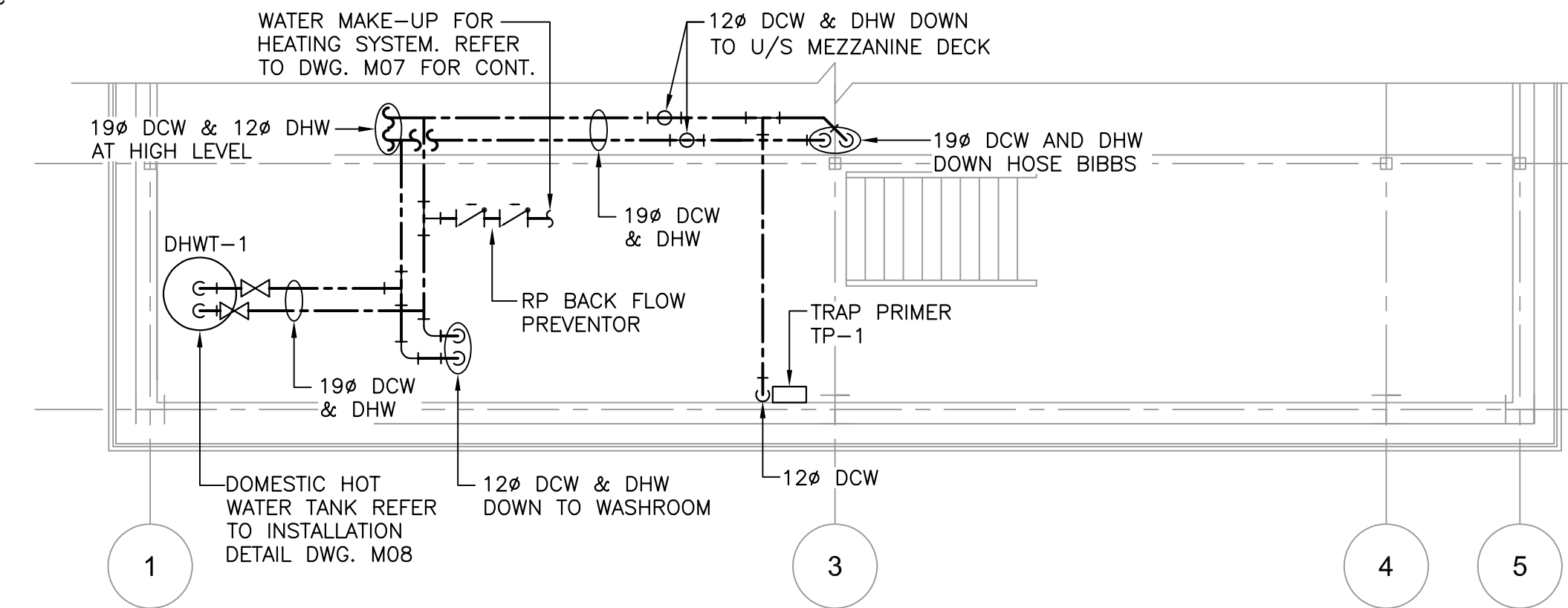


APPROX. NORTH



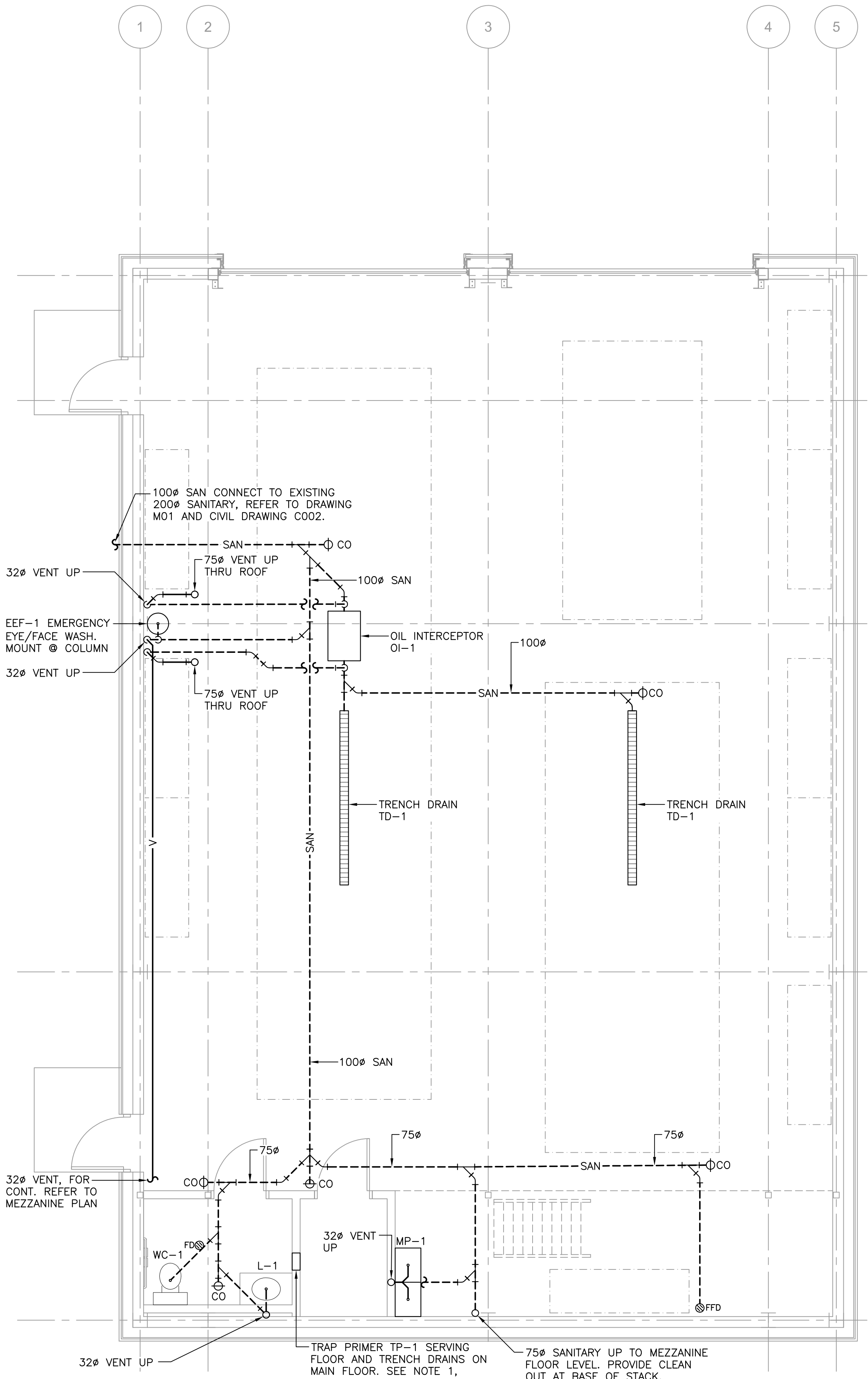
MEZZANINE PLAN - PLUMBING

1
M04M04



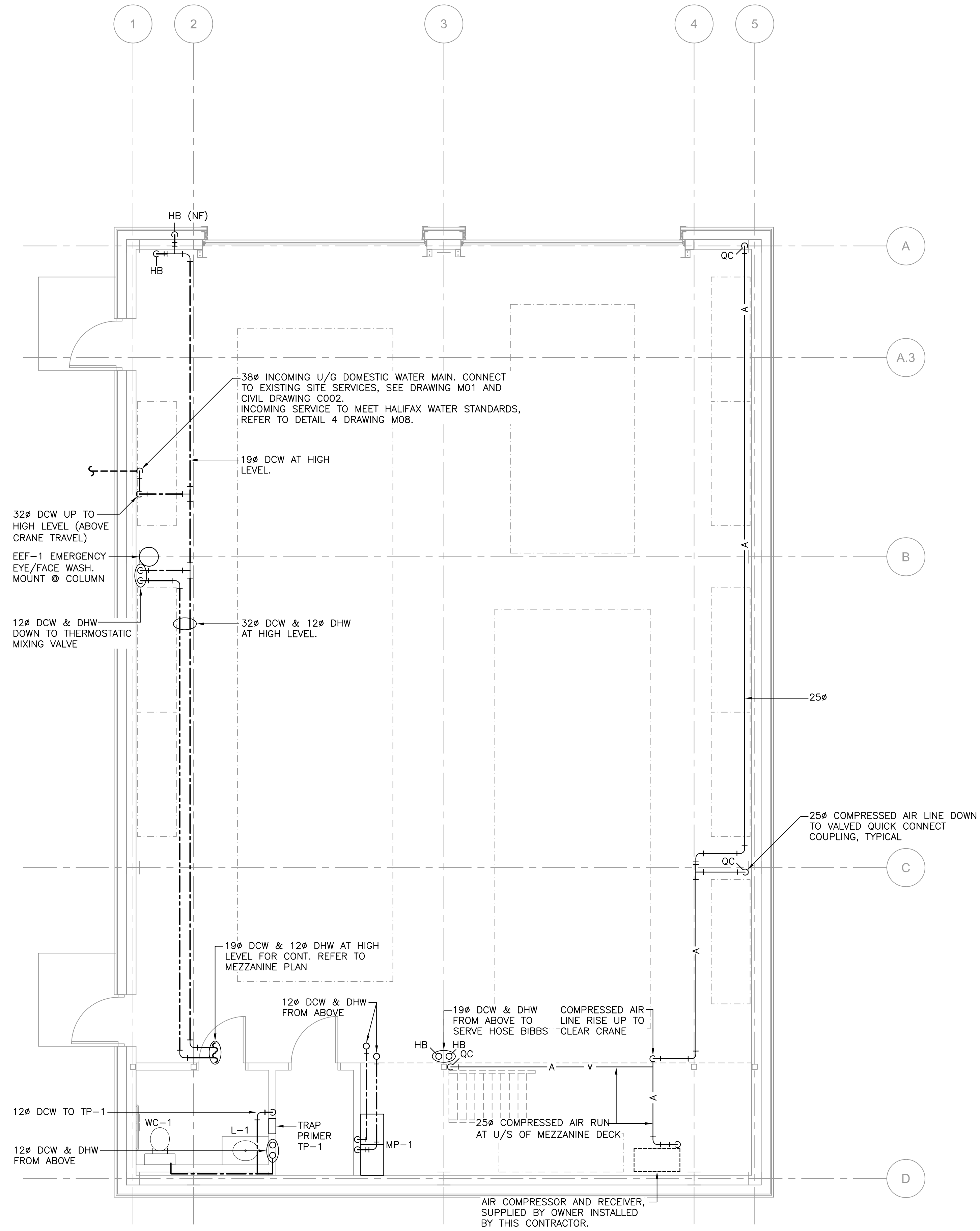
MEZZANINE PLAN - DOMESTIC SERVICES

3
M04M04



FLOOR PLAN - PLUMBING

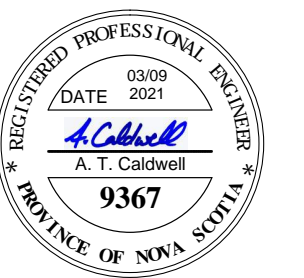
2
M04M04



FLOOR PLAN - DOMESTIC SERVICES

4
M04M04

NOTE:
1. 12mm TRAP PRIMER PIPING FROM EACH TRAP PRIMER TO FLOOR AND TRENCH DRAINS NOT SHOWN.



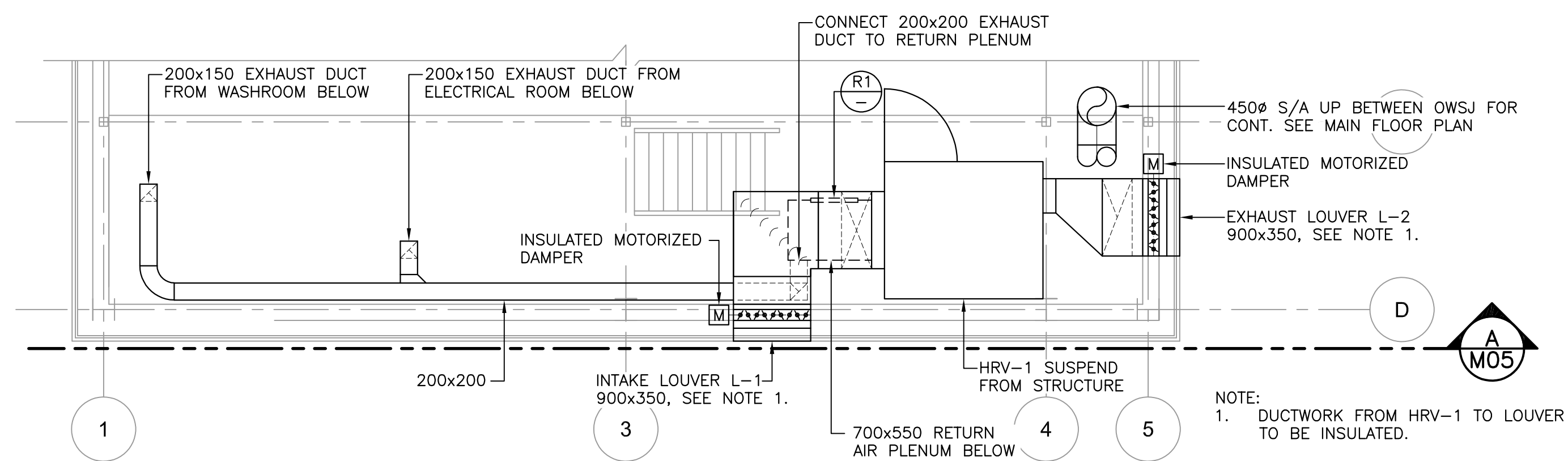
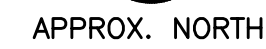
4	RE-ISSUED FOR TENDER	03/09/2021
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1	75%-RS4 SUBMISSION	12/16/2020
0	SCHEMATIC DESIGN	10/14/2020

project MCI HEAVY EQUIPMENT FACILITY

BIO DARTMOUTH

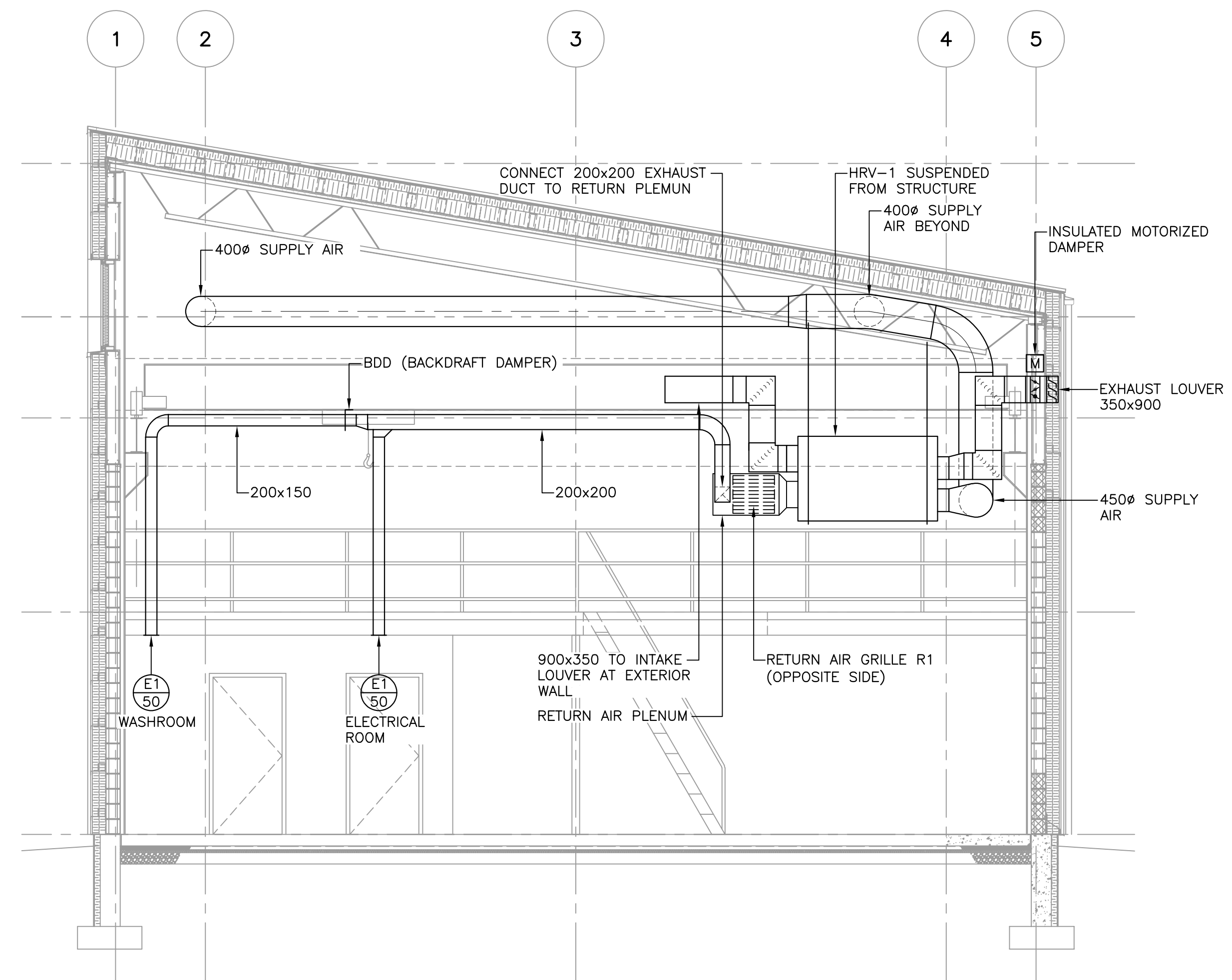
drawing PLUMBING AND DOMESTIC SERVICES FLOOR PLAN AND MEZZANINE

designed	A.C.	conçu
date	NOVEMBER 2020	
drawn	R.P.A.	dessiné
date	NOVEMBER 2020	
approved	A.C.	approuvé
date	NOVEMBER 2020	
Tender		Soumission
PW50C Project Manager	Administrateur de projets TP50C	
project number		no. du projet
	R.110935.001	
drawing no.		no. du dessin
	M04 OF 08	



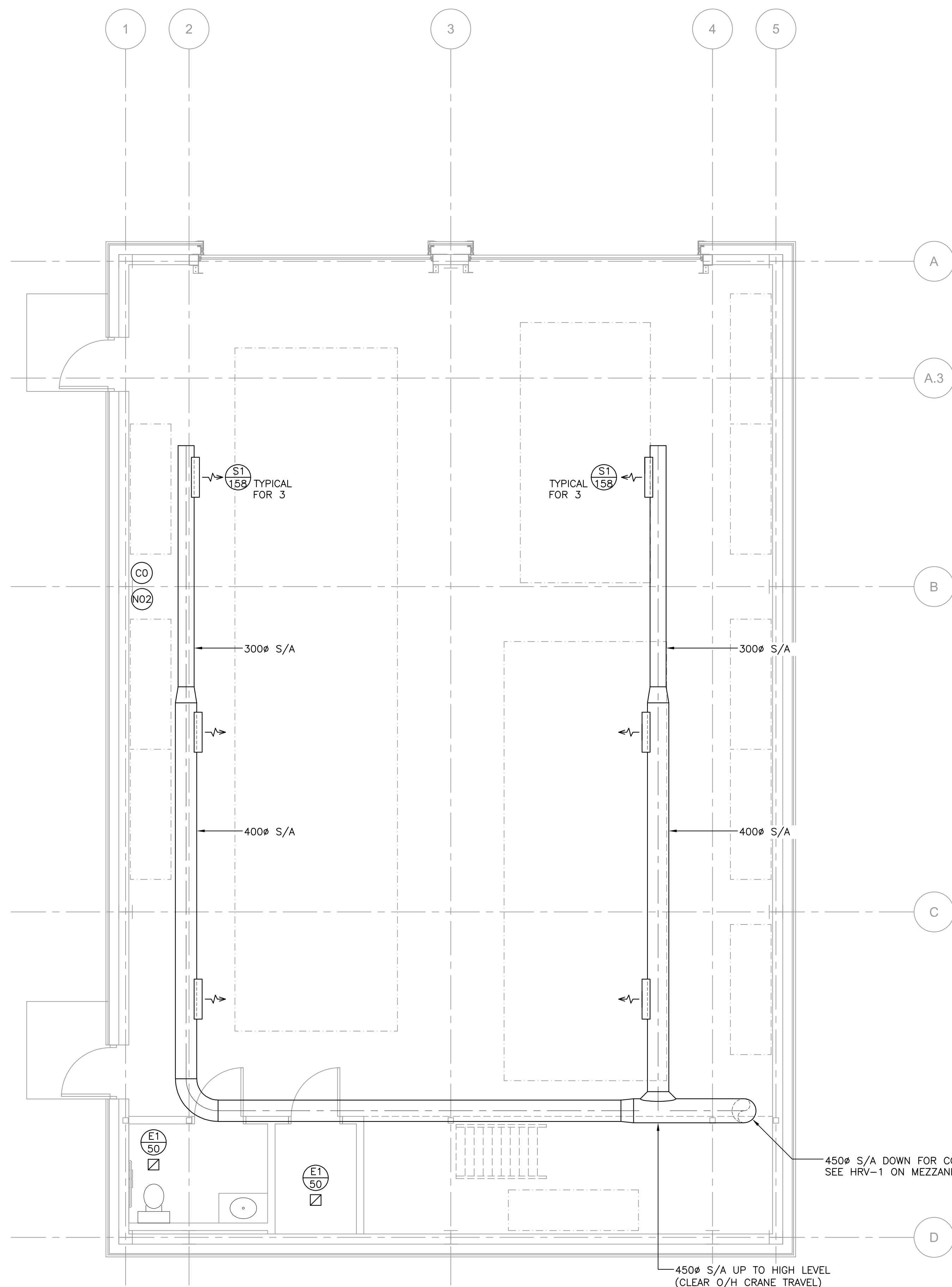
MEZZANINE PLAN – VENTILATION

SCALE : 1:50



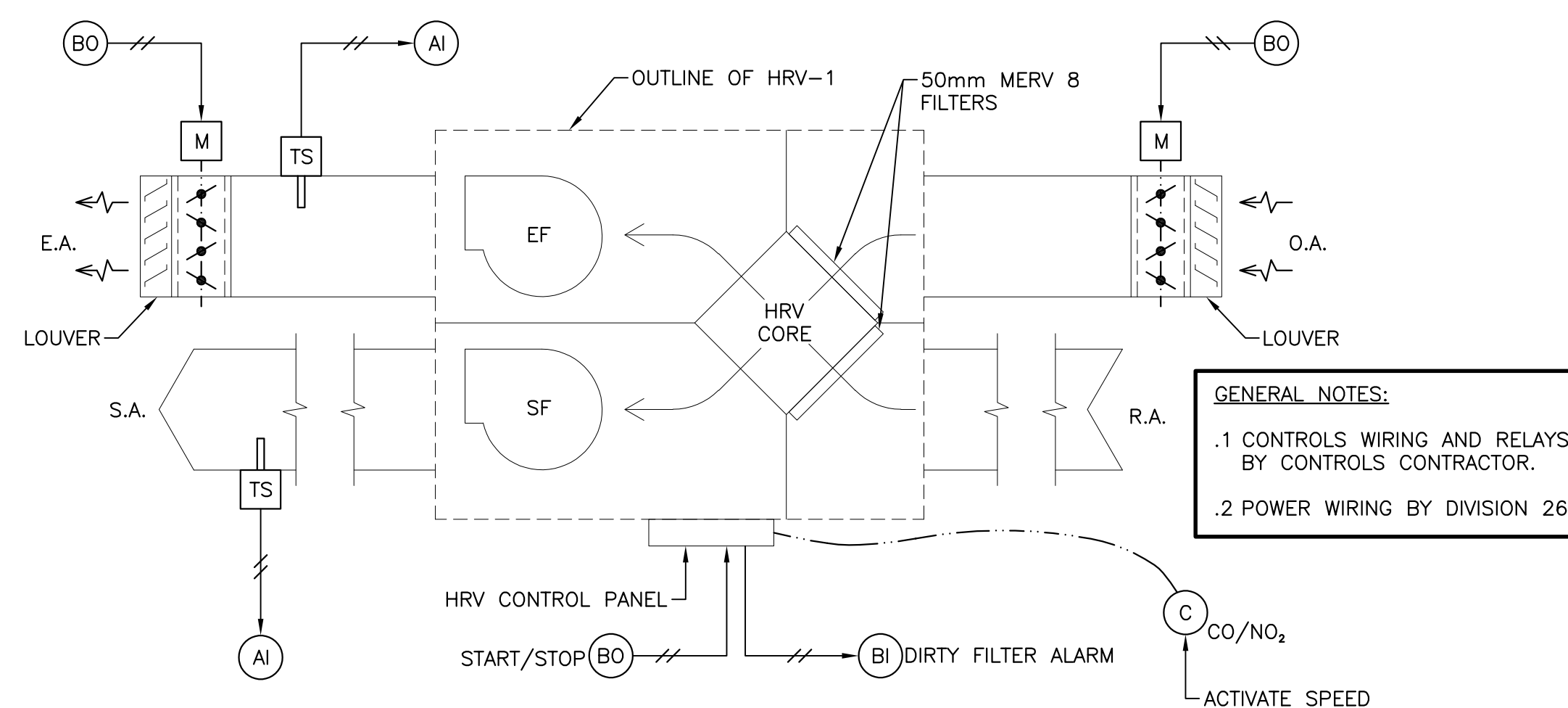
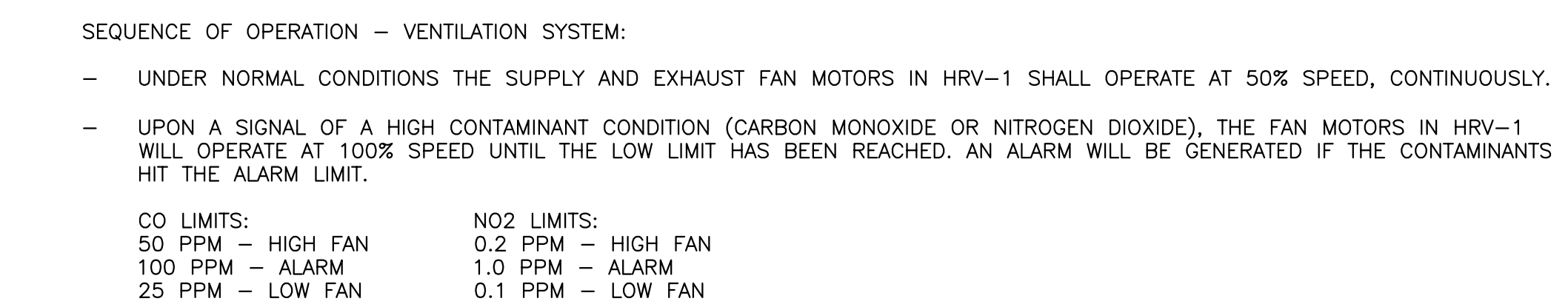
CROSS SECTION – VENTILATION

SCALE : 1:50



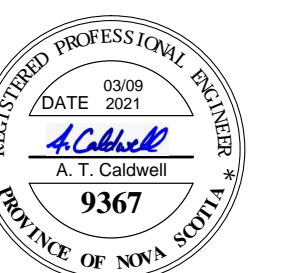
FLOOR PLAN – VENTILATION

SCALE : 1:50



HRV-1 CONTROL SCHEMATIC

SCALE : 1:50



4	RE-ISSUED FOR TENDER	03/09 2021
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revisions		date

project	projet
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MCI HEAVY
EQUIPMENT FACILITY

BIO DARTMOUTH

drawing
dessin

VENTILATION FLOOR PLAN AND MEZZANINE

designed A.C.	conçu
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date NOVEMBER 2020

drawn R.P.A. dessiné

date NOVEMBER 2020

approved A.C.	approuvé
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date NOVEMBER 2020

Tender	Soumission
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PWGSC Project Manager Administrateur de projets TPSGC

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D 110075 001	

R.110935.001

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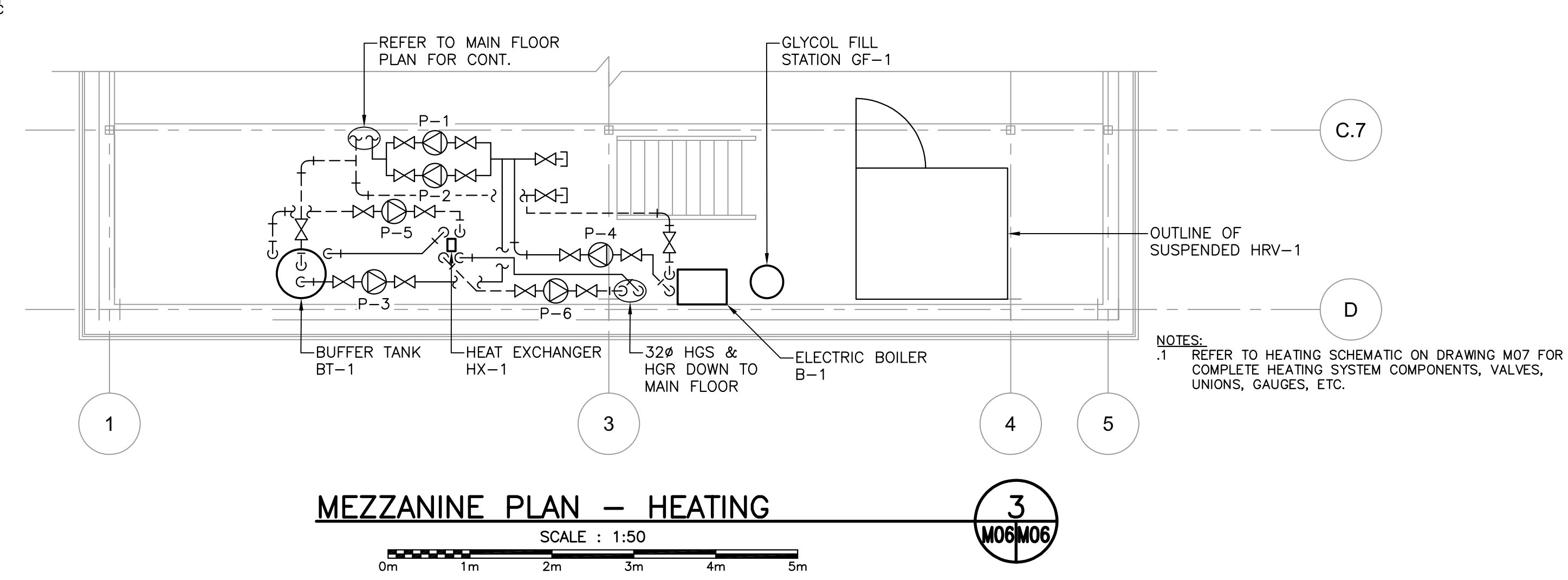
M05 OF 08



APPROX. NORTH

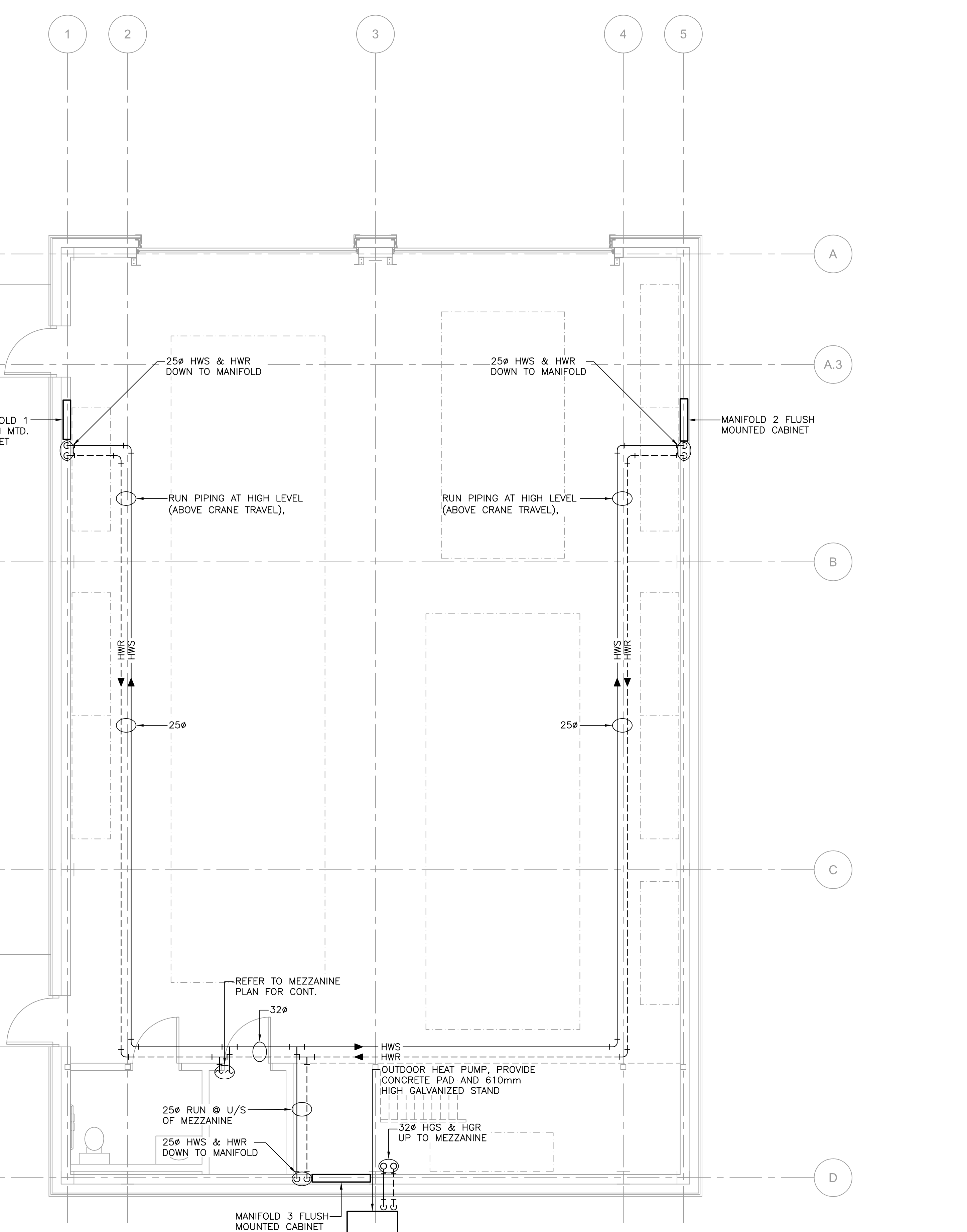
IN-FLOOR HEATING SCHEDULE			
LOOP #	MANIFOLD #	TOTAL PIPE LENGTH (M)	FLOW RATE (LPS)
1-1	①	89	0.07
1-2	①	55	0.04
1-3	①	90	0.07
2-1	②	89	0.07
2-2	②	83	0.06
2-3	②	90	0.07
3-1	③	75	0.07
3-2	③	76	0.04
3-3	③	91	0.07
3-4	③	65	0.04

- NOTES:
- ANY LENGTH OF IN-FLOOR PIPE 13mmØ SHALL NOT EXCEED 91.5m (300ft)
 - NO MECHANICAL OR HEAT FUSED JOINTS AND/OR FITTING SHALL BE INSTALLED ON IN-FLOOR HEATING OR DISTRIBUTION PIPING LOCATED WITHIN OR UNDER THE SLAB.
 - SPACING AT 150mm O.C. FOR FIRST 600mm AROUND EXTERIOR, 300mm SPACING O.C. ELSEWHERE.



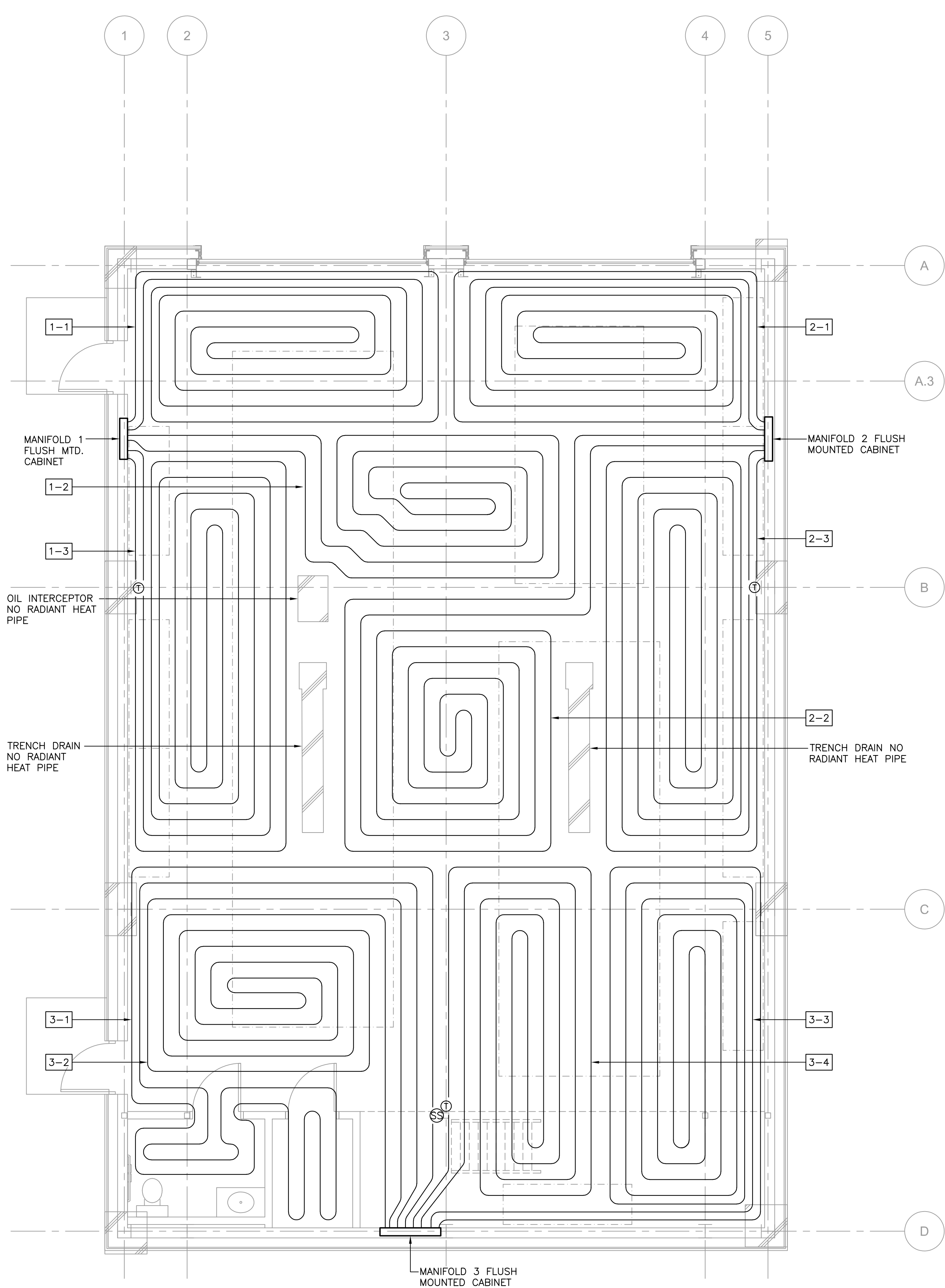
MEZZANINE PLAN - HEATING

SCALE : 1:50



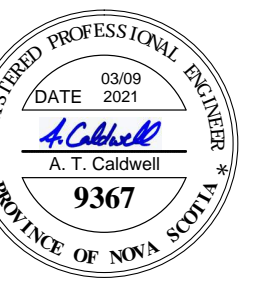
FLOOR PLAN - HEATING

SCALE : 1:50



FLOOR PLAN - IN-FLOOR HEATING

SCALE : 1:50



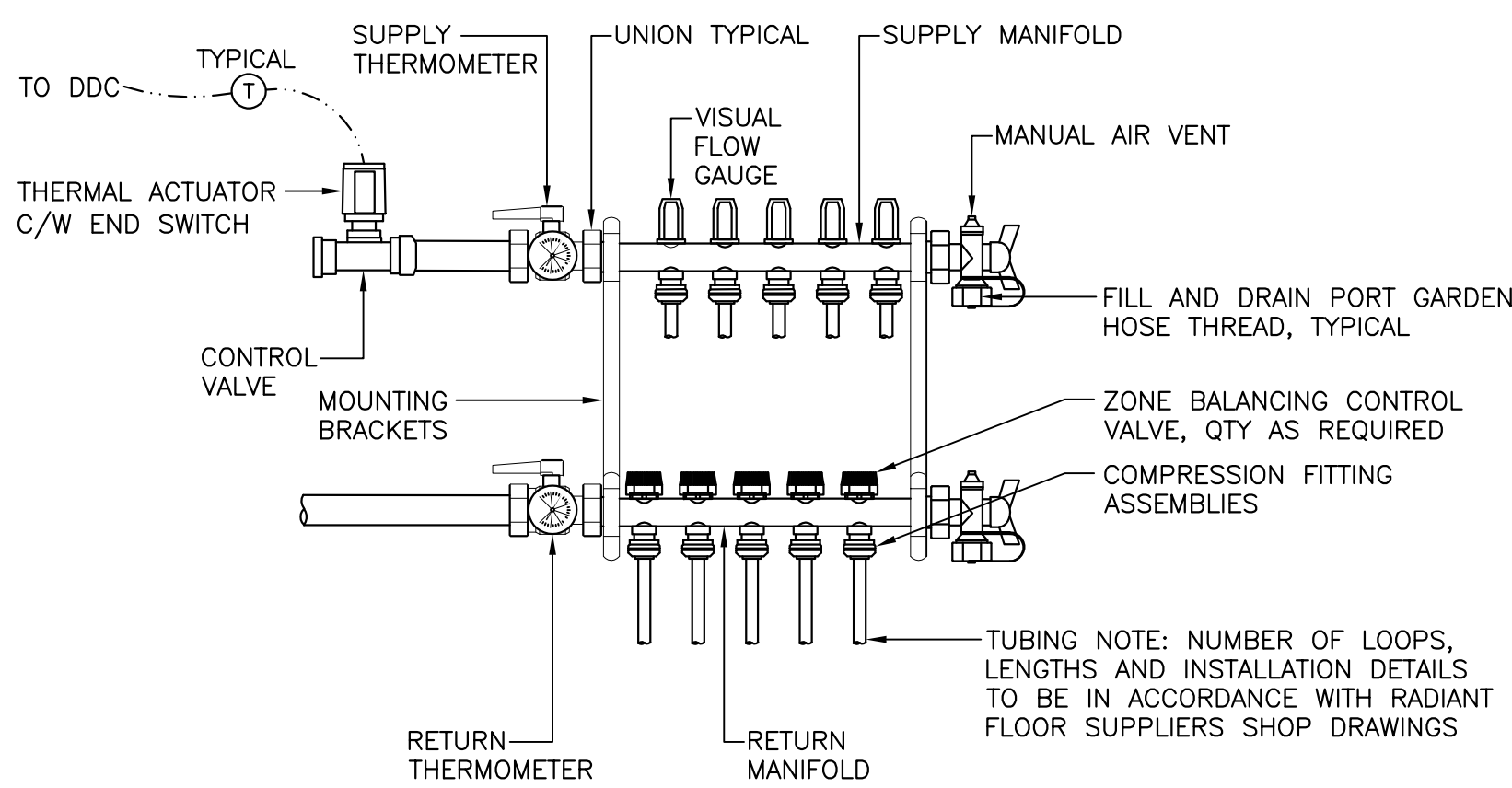
4	RE-ISSUED FOR TENDER	03/09/2021
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2	99%-RS4 SUBMISSION	01/29/2021
1	75%-RS4 SUBMISSION	12/16/2020
0	SCHEMATIC DESIGN	10/14/2020

project MCI HEAVY EQUIPMENT FACILITY

BIO DARTMOUTH

drawing HEATING FLOOR PLAN AND MEZZANINE

designed A.C. conçu
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drawn R.P.A. dessiné
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date NOVEMBER 2020
Tender Soumission
PW5C Project Manager Administrateur de projets TP5C
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M06 OF 08

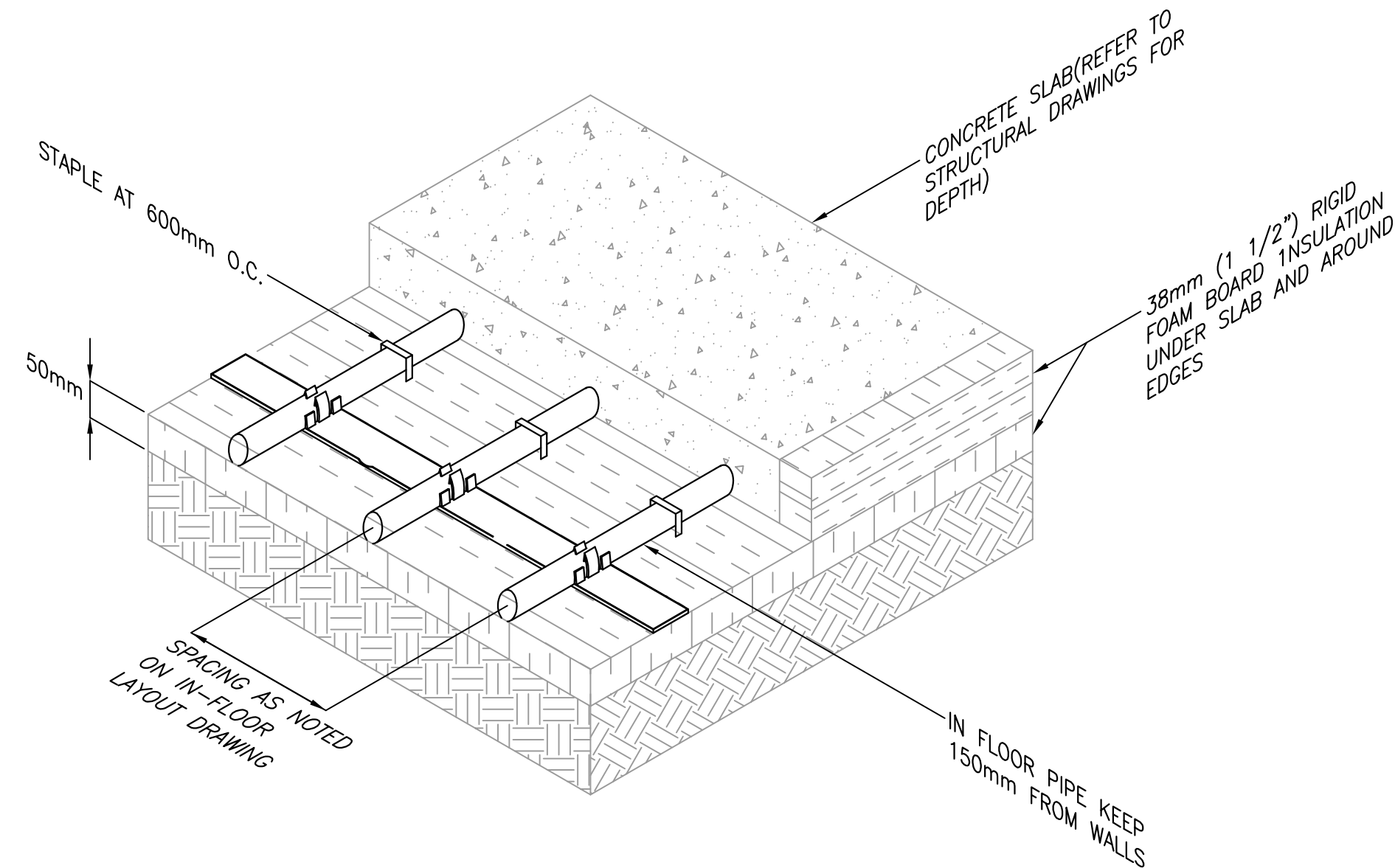


NOTE:

- DO NOT SCALE MANIFOLD SIZES FROM FLOOR PLAN. LENGTHS SHOWN ARE FOR CLARITY ONLY.
- MOUNT EACH MANIFOLD AND RELATED VALVING IN STEEL MANIFOLD ENCLOSURE CABINET C/W HINGED ACCESS DOOR. WHERE POSSIBLE RECESS IN WALL.
- SURFACE MOUNT CABINET SHALL BE STAINLESS STEEL.

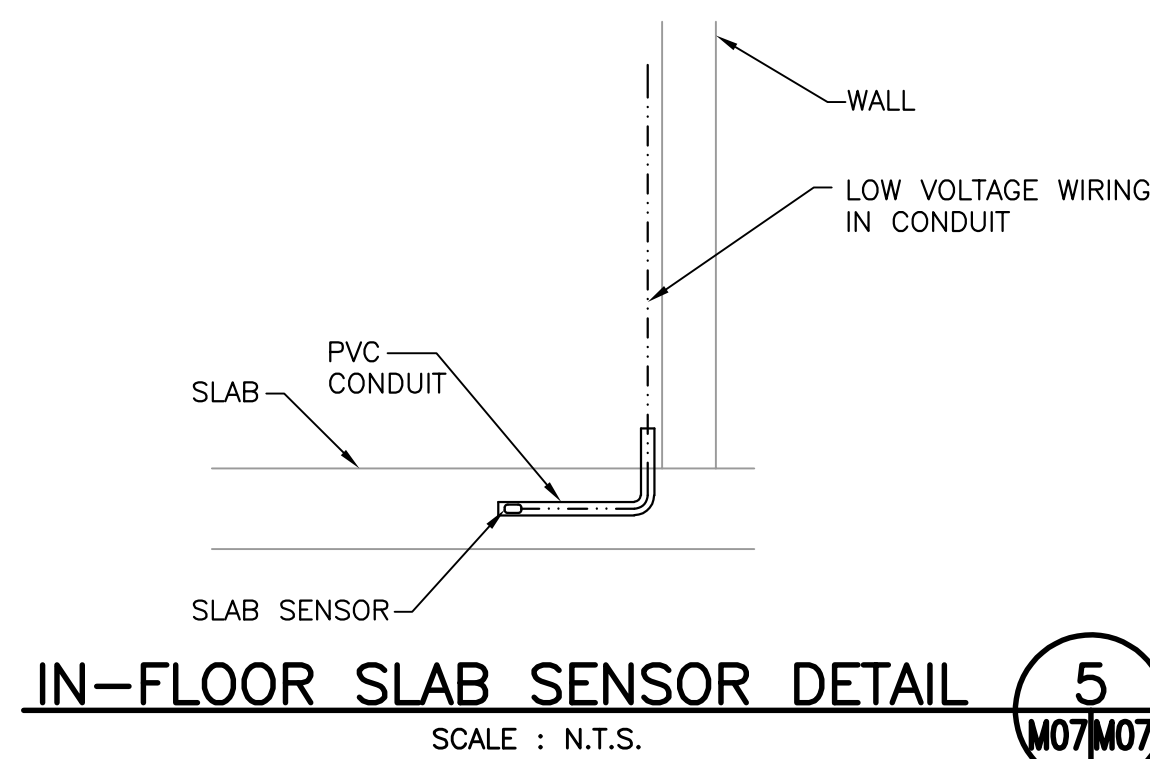
INFLOOR MANIFOLD DETAIL

SCALE : N.T.S.



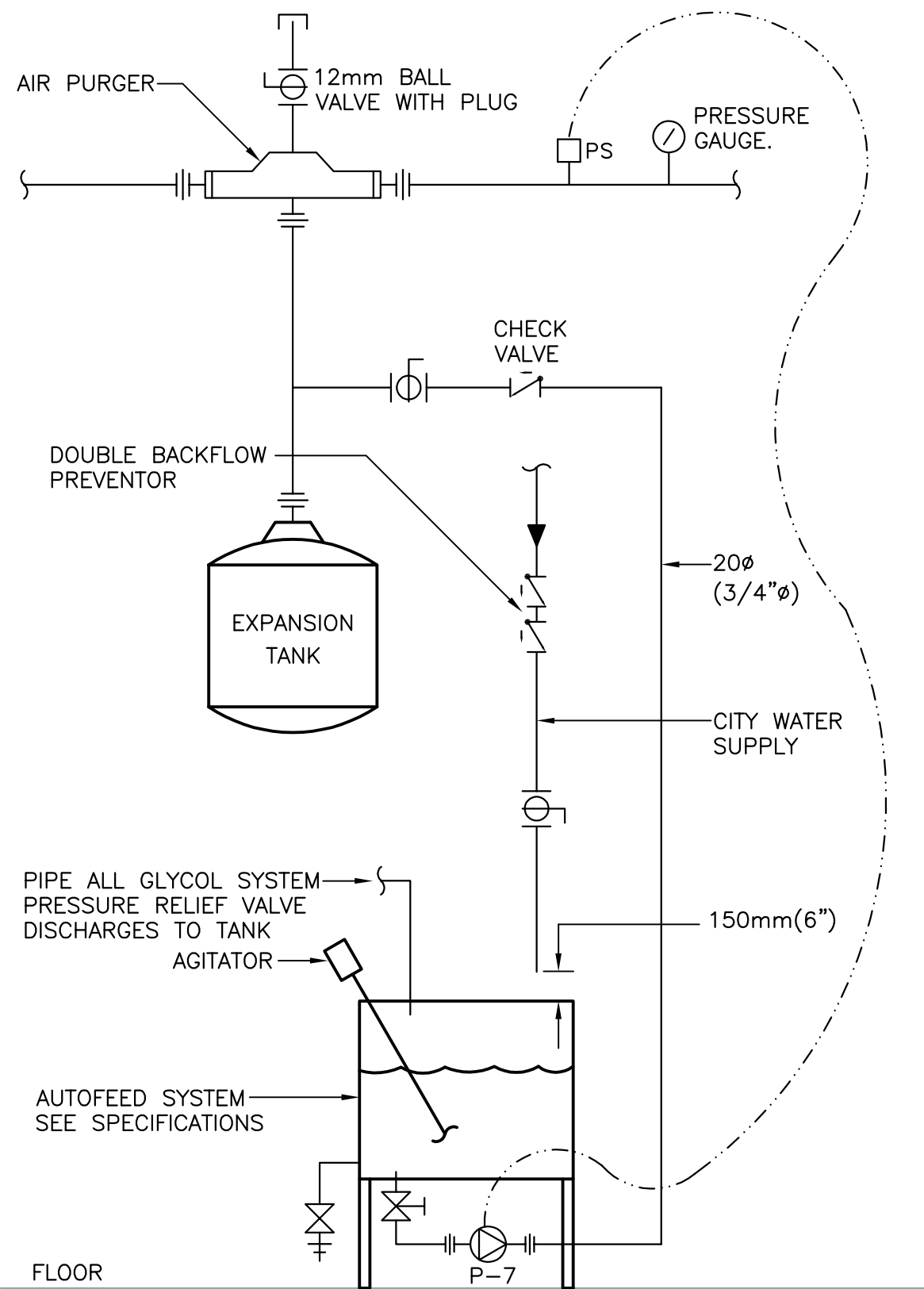
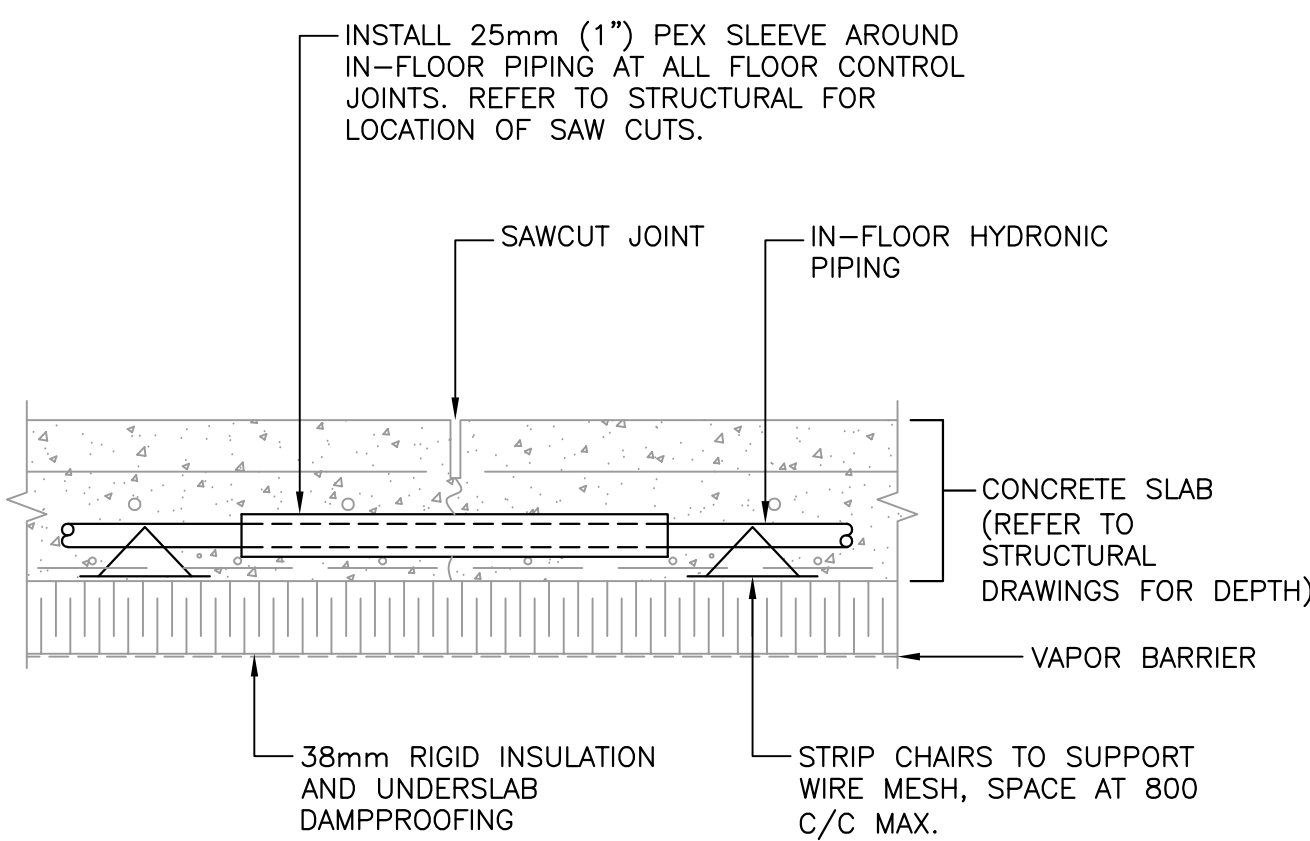
IN-FLOOR HEATING PIPING DETAIL

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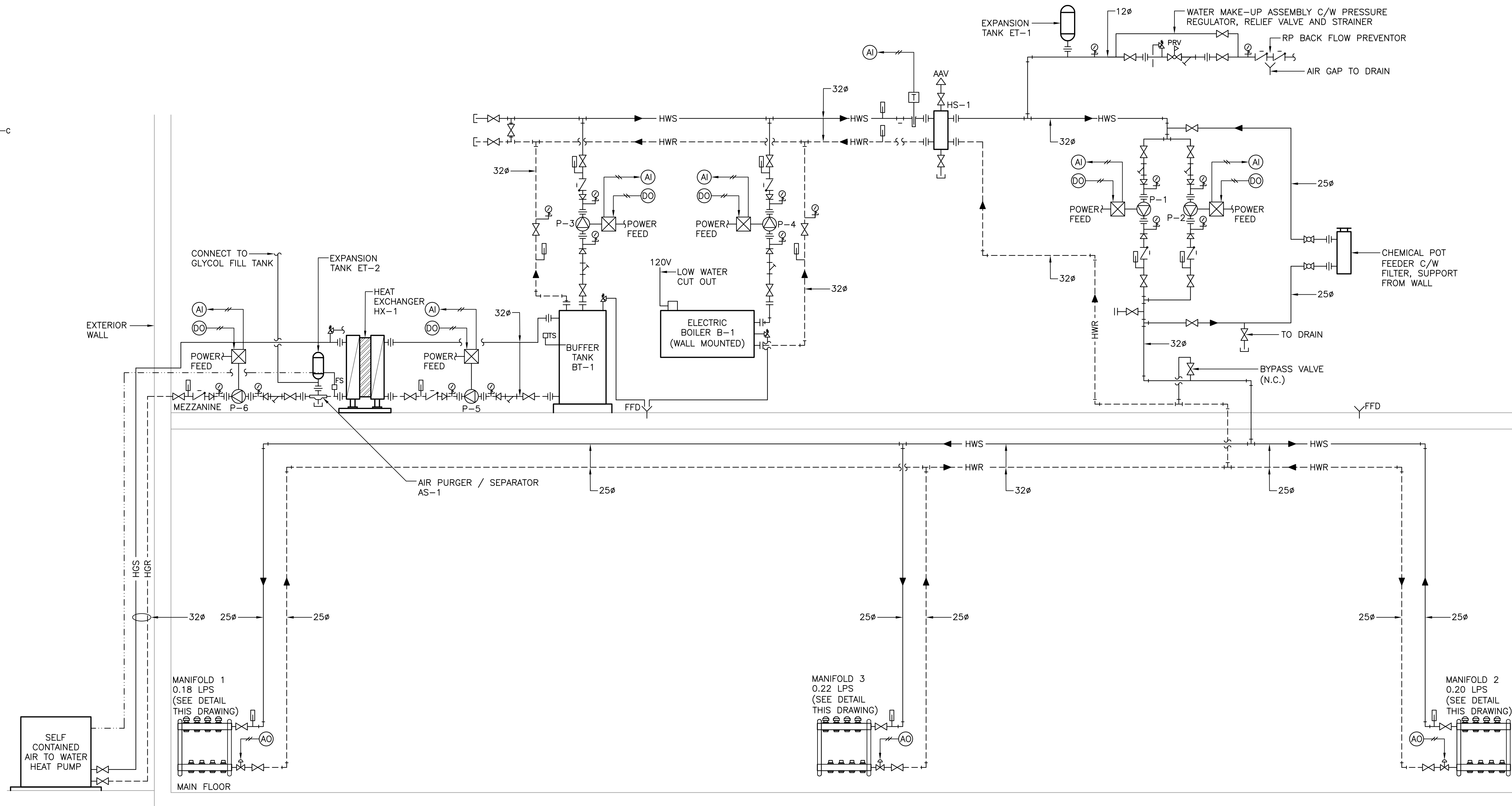
IN-FLOOR HEATING SAWCUT DETAIL

SCALE : N.T.S.



GLYCOL FILL TANK DETAIL

SCALE : N.T.S.

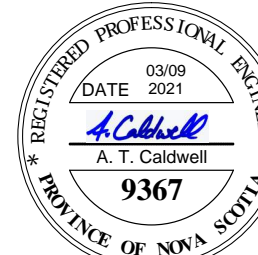


HEATING SYSTEM SCHEMATIC

SCALE : N.T.S.

SEQUENCE OF OPERATION - HEATING SYSTEM:

- DURING THE HEATING SEASON THE FOLLOWING SEQUENCE WILL BE ENABLED AT 15°C AND DISABLED AT 18°C, OUTDOOR AIR TEMPERATURE.
- UPON A CALL FOR HEAT, PUMPS P-1 AND P-2 SHALL BE ENABLED TO OPERATE IN A DUTY/STANDBY CONFIGURATION WITH DUTY ROTATION ON A WEEKLY BASIS.
- PUMPS P-1 AND P-2 HAVE A SENSOR LESS VARIABLE SPEED DRIVE THAT WILL CONTROL THE WATER FLOW RATE TO THE HEATING SYSTEM BASED ON DEMAND.
- CONTROL VALVES AT THE RADIANT FLOOR HEAT MANIFOLDS SHALL MODULATE HEATING WATER FLOW TO THE IN-FLOOR HEATING SYSTEM TO MAINTAIN SPACE TEMPERATURE CONDITION (OCCUPANT ADJUSTABLE SET POINT)
- HEAT PUMP HP-1, PUMP P-5 AND PUMP P-6 SHALL OPERATE TO MAINTAIN A WATER TEMPERATURE OF 50°C IN BUFFER TANK BT-1.
- PUMP P-3 SHALL OPERATE TO MAINTAIN A SUPPLY WATER TEMPERATURE OF 50°C TO THE HEATING SYSTEM.
- IF THE SUPPLY WATER TEMPERATURE DROPS TO 47°C, (FOR A TIME PERIOD TO BE DETERMINED DURING COMMISSIONING), PUMP P-4 SHALL OPERATE AND BOILER B-1 WILL MODULATE TO MAINTAIN A SUPPLY WATER TEMPERATURE OF 50°C FOR A PERIOD OF 24 HOURS.
- THE IN-SLAB TEMPERATURE SENSOR WILL OPERATE THE HEATING SYSTEM TO MAINTAIN A SLAB TEMPERATURE OF 21°C WHEN THERE IS NO REQUIREMENT FOR SPACE HEATING.



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revisions		date

project MCI HEAVY EQUIPMENT FACILITY

BIO DARTMOUTH

drawing HEATING SYSTEM SCHEMATIC AND DETAILS

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date NOVEMBER 2020	
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date NOVEMBER 2020	
Tender	Soumission

PWGSC Project Manager Administrateur de projets TPSGC

project number R.110935.001

drawing no. M07 OF 08

EXPANSION TANK SCHEDULE								
SYSTEM TAG	SERVICE	FLUID	TANK CAPACITY (L)	ACCEPTANCE CAPACITY (L)	DESIGN PRESSURE (KPa)	DIMENSIONS		REMARKS
						HEIGHT (mm)	DIA. (mm)	
ET-1	HEATING	HEATING WATER	53	43	861	533	390	ASME CERTIFIED
ET-2	GLYCOL	30% PROPYLENE GLYCOL	8	4	861	330	203	ASME CERTIFIED

BUFFER TANK SCHEDULE							
SYSTEM TAG	VOLUME (L)	FLUID	INSULATION (mm)	CONNECTIONS (mm)	DIMENSIONS		REMARKS
					HEIGHT (mm)	DIA. (mm)	
BT-1	300	HEATING WATER	50	38ø	1828	590	316L STAINLESS STEEL CONSTRUCTION

HEAT EXCHANGER SCHEDULE													
SYSTEM TAG	TYPE	CAPACITY (KW)	LOAD SIDE					SOURCE SIDE					REMARKS
			FLOW RATE (LPS)	ENTERING FLUID TEMP. (°C)	LEAVING FLUID TEMP. (°C)	FLUID	PRESSURE DROP (KPa)	FLOW RATE (LPS)	ENTERING FLUID TEMP. (°C)	LEAVING FLUID TEMP. (°C)	FLUID	PRESSURE DROP (KPa)	
HX-1	BRAZED PLATE	17.4	0.38	37.8	48.9	WATER	10.8	0.76	50.6	44.8	30% P.G.	37.1	-

ELECTRIC BOILER SCHEDULE						
SYSTEM TAG	HEATING INPUT (KW)	HEATING OUTPUT (KW)	ELECTRICAL SUPPLY			REMARKS
			VOLTS	PHASE	HERTZ	
B-1	27	27	575	3	60	CAPABLE OF STAGED HEATING CONTROL

AIR TO WATER HEAT PUMP SCHEDULE											
SYSTEM TAG	HEATING INPUT (KW)	HEATING OUTPUT (KW)	AMBIENT AIR TEMP.		ELECTRICAL SUPPLY					REFRIGERANT	REMARKS
			DB (°C)	WB (°C)	VOLTS	PHASE	HERTZ	MCA	MOCP		
HP-1	4.1	10.4	-7	-8	220	1	60	30.4	50	R410A	PERFORMANCE WITH 30% PROPYLENE GLYCOL AT AHRI - 210/240 STANDARD CONDITIONS

PUMP SCHEDULE										
SYSTEM TAG	SERVICE	LOCATION	FLUID	FLOW (LPS)	HEAD (KPa)	MOTOR SIZE (KW)	ELECTRICAL SUPPLY			REMARKS
							VOLTS	PHASE	HERTZ	
P-1	HEATING SYSTEM	MECH. MEZZANINE	WATER	0.6	60	0.107	120	1	60	C/W INTERNAL VFD CONTROL
P-2	HEATING SYSTEM	MECH. MEZZANINE	WATER	0.6	60	0.107	120	1	60	C/W INTERNAL VFD CONTROL
P-3	BUFFER TANK	MECH. MEZZANINE	WATER	0.38	12	0.087	120	1	60	C/W INTERNAL VFD CONTROL
P-4	ELECTRIC BOILER	MECH. MEZZANINE	WATER	0.6	18	0.087	120	1	60	C/W INTERNAL VFD CONTROL
P-5	HEAT EXCHANGER	MECH. MEZZANINE	WATER	0.38	60	0.215	120	1	60	
P-6	HEAT PUMP	MECH. MEZZANINE	30% P.G.	0.76	60	0.215	120	1	60	

ENERGY RECOVERY SCHEDULE										
SYSTEM TAG	APPLICATION	AIR FLOW (LPS)	EXTERNAL STATIC PRESSURE (Pa)	EFFICIENCY (%)	ELECTRICAL SUPPLY					REMARKS
					VOLTS	PHASE	HERTZ	MCA	MOCPP	
HRV-1	VENTILATION	948	0.3	65	575	3	60	7.4	15	C/W INTEGRAL VFD FAN AND CONTROLLER

HYDRAULIC SEPARATOR SCHEDULE				
SYSTEM TAG	SERVICE	VOLUME (L)	CONNECTIONS (mm)	REMARKS
HS-1	HEATING WATER LOOP	1.9	32ø	-

GLYCOL FILL SYSTEM SCHEDULE						
SYSTEM TAG	SERVICE	VOLUME (L)	ELECTRICAL SUPPLY			REMARKS
			VOLTS	PHASE	HERTZ	
GF-1	GLYCOL FILL	64	120	1	60	C/W GLYCOL FILL PUMP

LOUVRE SCHEDULE					
SYSTEM TAG	LOCATION	SERVES	AIRFLOW	DIMENSIONS (LxHT.xDP.)	REMARKS
L-1 / L-2	MECHANICAL MEZZ.	HRV-1	-	900x350x150	DRAINABLE BLADES. PROVIDE INSULATED MOTORIZED DAMPER AT LOUVER

MECHANICAL VENTILATION SCHEDULES

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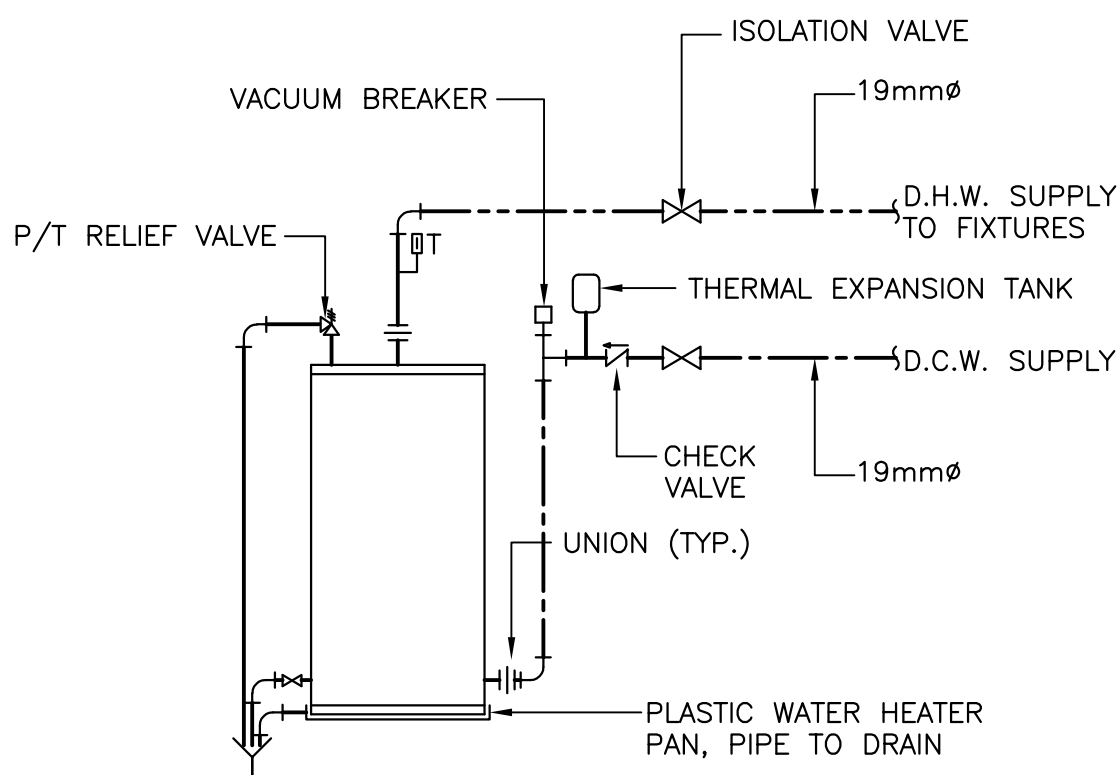
DOMESTIC HOT WATER TANK SCHEDULE									
SYSTEM TAG	LOCATION	TANK VOLUME (L)	ELECTRICAL SUPPLY				DIMENSIONS		REMARKS
			VOLTS	PHASE	HERTZ	HEATER (WATTS)	HEIGHT (mm)	DIA. (mm)	
DWHT-1	MECH. MEZZANINE	108	208	1	60	3000	760	560	C/W T&P RELIEF VALVE & DRAIN PAN

PLUMBING FIXTURE SCHEDULE						
SYSTEM TAG	TYPE	PIPE SIZE (mm)				REMARKS
		DCW	DHW	SAN	VENT	
WC-1	WATER CLOSET	12	-	75	32	C/W LINED TANK, TOILET FLANGE, SHUT OFF VALVE & S.S. FLEX BRAIDED SERVICE CONNECTION.
L-1	LAVATORY	12	12	38	32	C/W WASTE AND TRAP, SHUT OFF VALVES & S.S. FLEX BRAIDED SERVICE CONNECTIONS.
MP-1	MULTI PURPOSE SINK	12	12	38	32	C/W WASTE AND TRAP, SHUT OFF VALVES & S.S. FLEX BRAIDED SERVICE CONNECTIONS.
EEF-1	EMERGENCY EYE/FACE WASH	12	12	38	32	C/W THERMOSTATIC MIXING VALVE OF SAME MANUFACTURER AS UNIT.
OI-1	OIL INTERCEPTOR	-	-	100	32	TOTAL VOLUME 189L - OIL VOLUME 68L
TD-1	TRENCH DRAIN	-	-	75	32	TRENCH TO BE 3000mm LONG

DOMESTIC SERVICES SCHEDULES

SCALE : N.T.S.

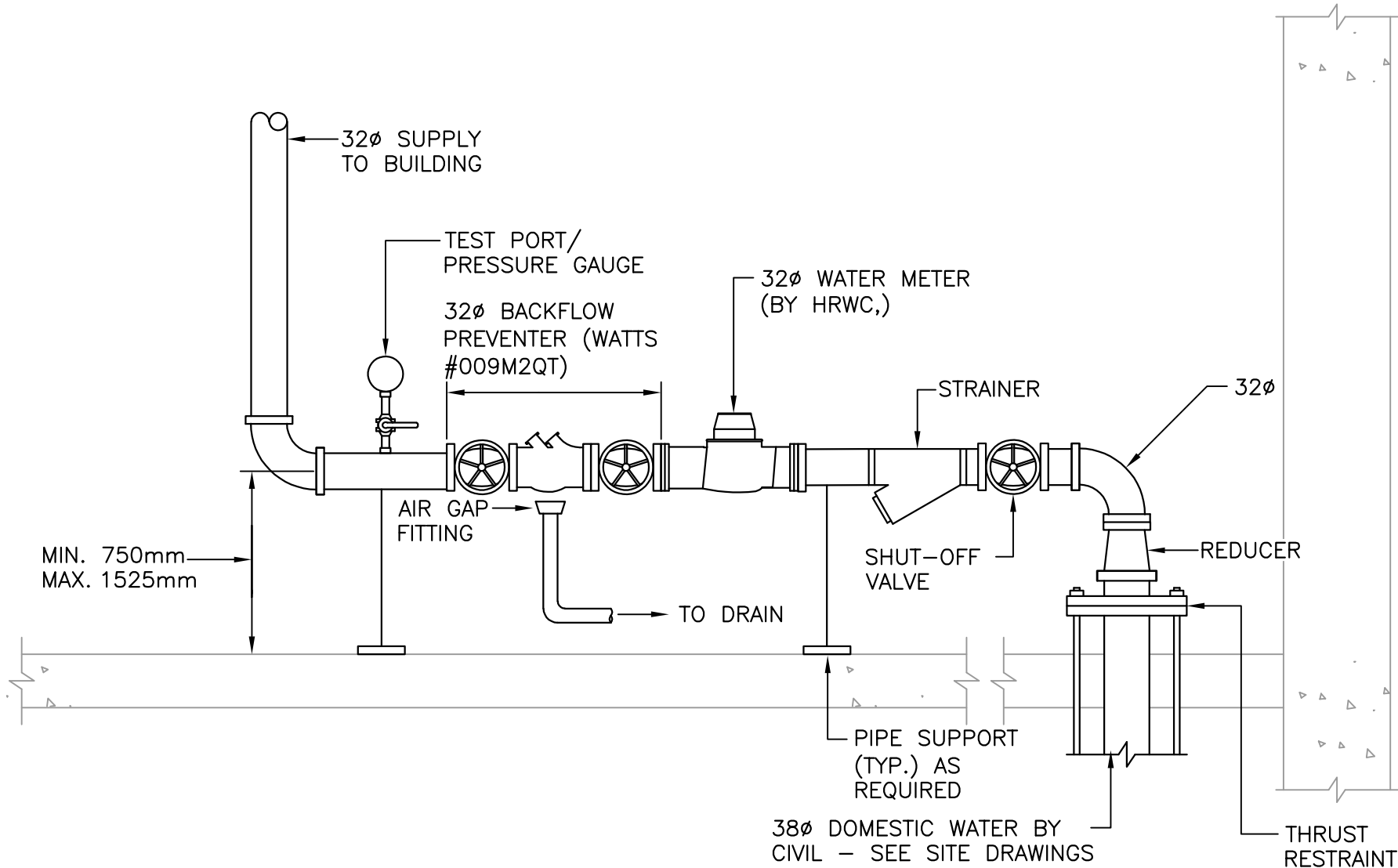
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DOMESTIC WATER TANK INSTALLATION DETAIL

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INCOMING WATER ENTRANCE DETAIL

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revisions	date
4	RE-ISSUED FOR TENDER 03/09 2021
3	ISSUED FOR TENDER 02/18 2021
2	99%-RS4 SUBMISSION 01/28 2021
1	75%-RS4 SUBMISSION 12/16 2020
0	SCHEMATIC DESIGN 10/14 2020

project
MCI HEAVY EQUIPMENT FACILITY

BIO DARTMOUTH

drawing
MECHANICAL SCHEDULES AND DETAILS

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