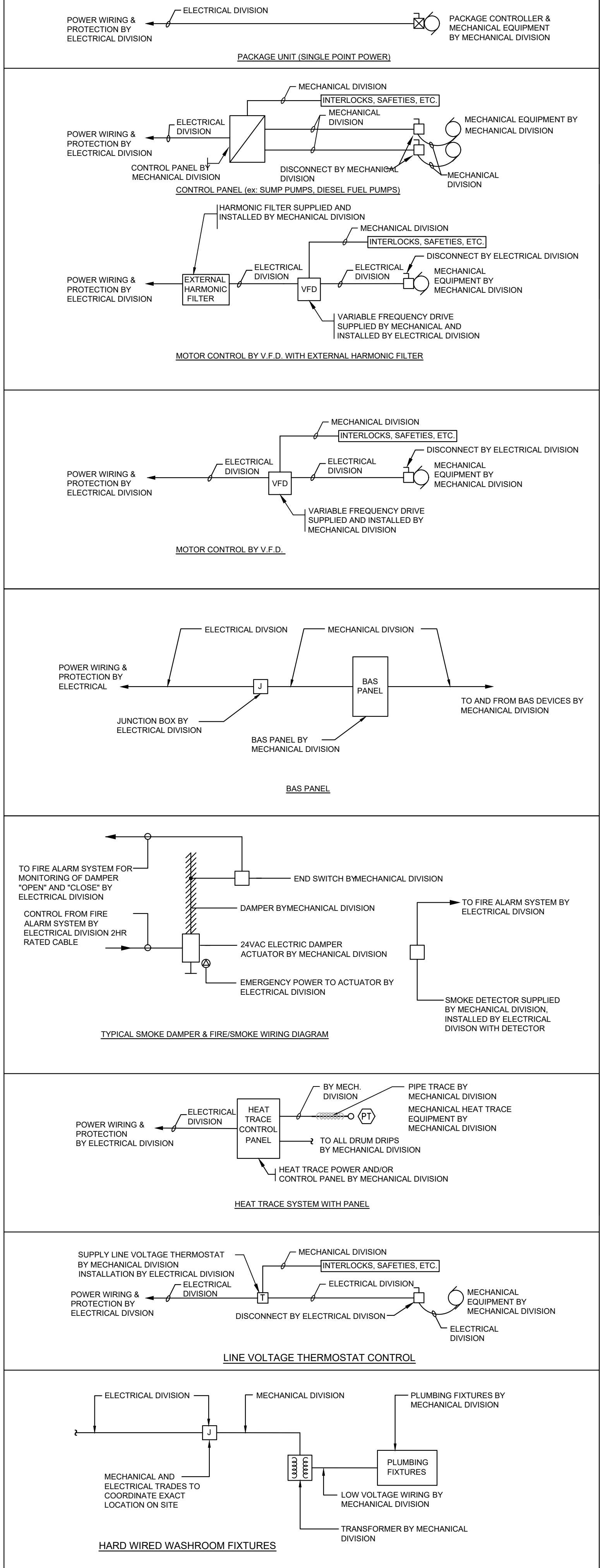


SCOPE OF WORK FOR MECHANICAL EQUIPMENT



MECHANICAL LEGEND

	SUPPLY OR OUTSIDE AIR DUCT (UP / DOWN)
	RETURN AIR DUCT (UP / DOWN)
	EXHAUST AIR DUCT (UP / DOWN)
	DAMPER DF - FIRE DG - GRAVITY BACKDRAFT DA - AUTOMATIC W/ OPERATOR DFS - FIRE/SMOKE
	DOUBLE LINE DUCT - SINGLE LINE DUCT
	DOUBLE LINE DUCT - SINGLE LINE DUCT WITH LINING AS NOTED
	DOUBLE LINE DUCT - SINGLE LINE DUCT WITH ACOUSTIC INSULATION
	DOUBLE LINE DUCT - SINGLE LINE DUCT WITH SILENCER
	DOUBLE LINE DUCT - SINGLE LINE DUCT WITH FIRE WRAP
	FLEX DUCT WITH TAKE-OFF C/W MANUAL BALANCING DAMPER
	RETURN AIR GRILLE
	EXHAUST GRILLE
	TRANSFER GRILLE
	SQUARE DIFFUSER
	ROUND DIFFUSER
	LINEAR DIFFUSER
	VAV BOX
	VAV BOX WITH ATTENUATOR
	MECHANICAL EQUIPMENT AS INDICATED (REVIT)
	THERMOSTAT
	TEMPERATURE SENSOR - (DIGITAL)
	HUMIDITY SENSOR
	LEAK DETECTOR
	SPEED CONTROLLER
	ON/OFF SWITCH - CONTROL SWITCH
	FD - FLOOR HD - HUB FFD - FUNNEL FLOOR GD - GARAGE
	ROOF DRAIN (SIZE)
	CATCH BASIN MAN HOLE AS INDICATED
	RUNNING TRAP
	TD - TRENCH GTD - GARAGE
	BACKWATER VALVE
	CLEANOUT - SUSPENDED / CLEANOUT - BURIED
	HB - HOSE BIB NFB - NON-FREEZE HOSE BIB WH - WALL HYDRANT
	NON-FREEZE GROUND HYDRANT
	CAP
	FIRE EXTINGUISHER
	FIRE EXTINGUISHER WITH CABINET

MECHANICAL LEGEND

	ISOLATION VALVE
	CIRCUIT BALANCING VALVE
	AUTOMATIC FLOW CONTROL VALVE
	BALANCING VALVE
	CHECK VALVE
	PRESSURE REDUCING VALVE
	SUPERVISED VALVE
	(SAFETY) RELIEF VALVE
	2 OR 3 WAY CONTROL VALVE
	SOLENOID VALVE
	SHUT OFF FIRE SAFE VALVE
	DRAIN VALVE
	STRAINER
	UNION
	AIR VENT
	FLOW SWITCH
	PRESSURE GAUGE
	THERMOMETER
	TEMPERATURE GAUGE
	WATER METER / GAS METER / METER AS NOTED
	BACKFLOW PREVENTOR
	PIPE GUIDE / PIPE ANCHOR
	WALL SLEEVE
	EXPANSION JOINT
	ELBOW TURNING DN / TEE OUTLET TURNING DN
	ELBOW TURNING UP / TEE OUTLET TURNING UP
	PIPE END CAPPED
	RUNNING TRAP
	HEAT TRACE
	FLOW ARROW
	LINE BREAK
	SANITARY DRAIN IN CEILING SPACE
	SANITARY DRAIN BELOW SLAB
	SANITARY DRAIN - PUMPED
	INDIRECT DRAIN
	SANITARY VENT
	STORM DRAIN - SUSPENDED FROM CEILING
	STORM DRAIN - BURIED (BELOW FLOOR)
	STORM DRAIN - PUMPED
	DOMESTIC COLD WATER
	DOMESTIC HOT WATER
	DOMESTIC HOT WATER RECIRCULATION
	DOMESTIC HOT WATER - HIGH TEMPERATURE
	DOMESTIC HOT WATER RECIRC - HIGH TEMPERATURE
	CONDENSER WATER - SUPPLY
	CONDENSER WATER - RETURN

MECHANICAL LEGEND

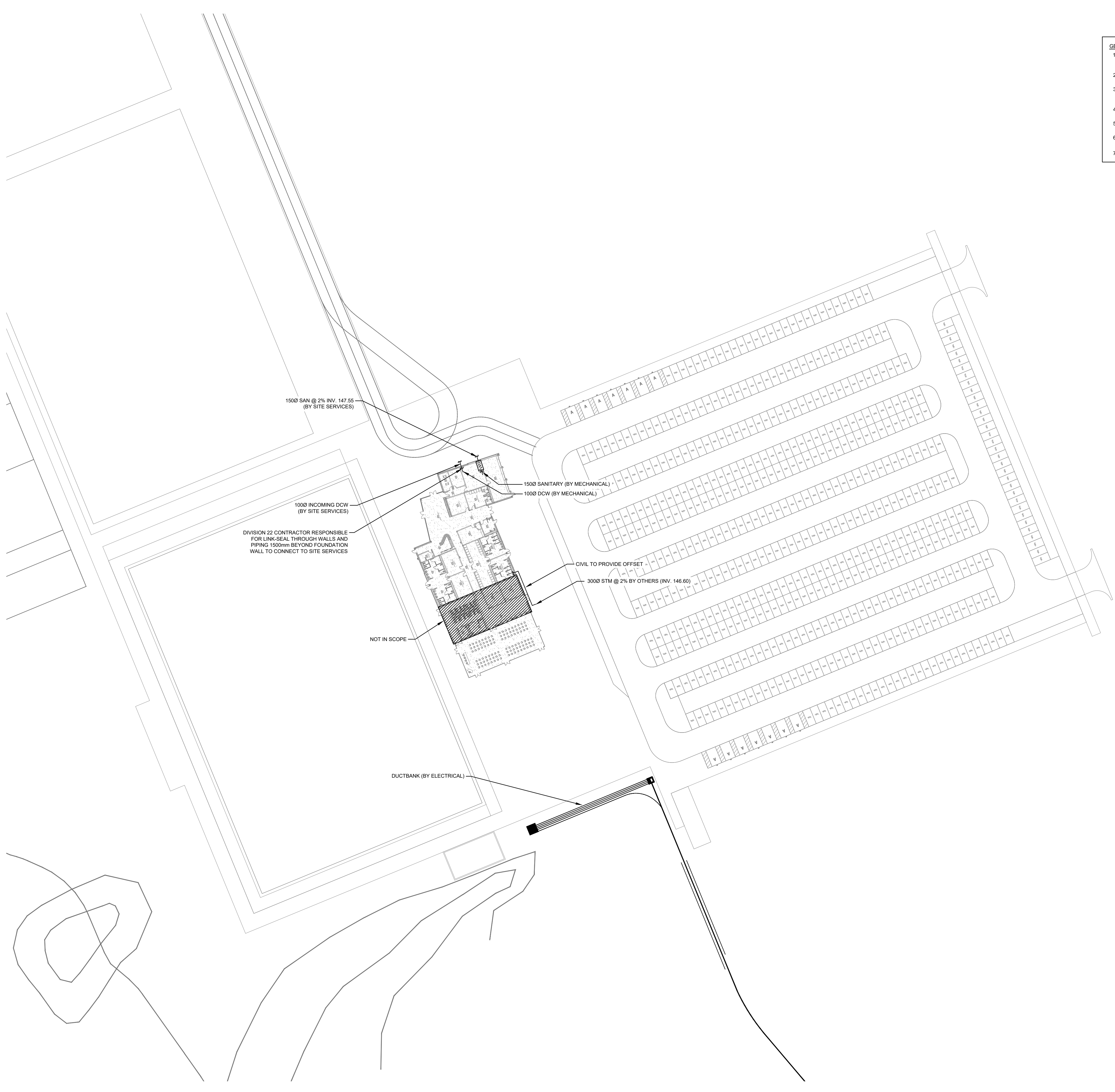
	VAV BOX
	VAV BOX WITH HEATING COIL
	FAN POWERED VAV BOX
	DIFFUSER, REGISTER OR GRILLE
	RADIATION OR (RA) RADIANT PANEL
DEMOLITION	
	R - REMOVE
	RL - RELOCATE
	DENOTES EXISTING EQUIPMENT, PIPE, DUCT TO BE 'REMOVED'
	DENOTES EXISTING EQUIPMENT, PIPE, DUCT TO BE 'RELOCATED'
EXISTING	
	EXISTING TO REMAIN (TONED)
	DOMESTIC COLD WATER - HIGH PRESSURE
	DOMESTIC HOT WATER - HIGH PRESSURE
	DOMESTIC HOT WATER RECIRC - HIGH PRESSURE
	CONDENSATE DRAIN
	CONDENSATE - LOW PRESSURE
	CONDENSATE - PUMPED
	MAKEUP WATER
	STEAM - HIGH PRESSURE
	STEAM - MEDIUM PRESSURE
	STEAM - LOW PRESSURE

MECHANICAL LEGEND

	OPEN/CLOSE
	AIR FLOW SENSOR
	MODULATING
	FIRE ALARM SYSTEM
	END SWITCH
	START/STOP
	ENABLE/DISABLE
	HIGH HUMIDITY SENSOR
	PRESSURE DIFFERENTIAL
	SMOKE DETECTOR
	FIRE STAT
	FREEZE STAT
	DIGITAL INPUT
	DIGITAL OUTPUT
	ANALOGUE INPUT
	ANALOGUE OUTPUT
	TEMPERATURE SENSOR
	FLOW SENSOR
	PRESSURE SENSOR
	HUMIDITY SENSOR

MECHANICAL DRAWING LIST

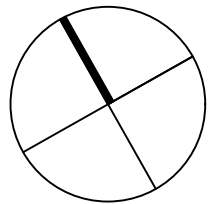
DWG. No.	DRAWING TITLE
M-000.0	MECHANICAL LEGEND AND DRAWING LIST - BASE SCOPE
M-011.0	SITE PLAN - BASE SCOPE
M-110.0	EAST VSTS BELOW GRADE GAME PLUMBING & DRAINAGE - BASE SCOPE
M-111.0	EAST VSTS GROUND FLOOR GAME PLUMBING & DRAINAGE - BASE SCOPE
M-112.0	EAST VSTS ROOF GAME PLUMBING & DRAINAGE - BASE SCOPE
M-113.0	EAST VSTS BELOW GRADE LEGACY PLUMBING & DRAINAGE - BASE SCOPE
M-114.0	EAST VSTS GROUND FLOOR LEGACY PLUMBING & DRAINAGE - BASE SCOPE
M-115.0	EAST VSTS ROOF LEGACY PLUMBING & DRAINAGE - BASE SCOPE
M-211.0	EAST VSTS GROUND FLOOR GAME FIRE PROTECTION - BASE SCOPE
M-311.0	EAST VSTS GROUND FLOOR GAME HVAC - BASE SCOPE
M-312.0	EAST VSTS ROOF GAME HVAC - BASE SCOPE
M-313.0	EAST VSTS GROUND LEGACY FLOOR HVAC - BASE SCOPE
M-411.0	EAST VSTS GROUND FLOOR GAME HVAC PIPING - BASE SCOPE
M-412.0	EAST VSTS ROOF GAME HVAC PIPING - BASE SCOPE
M-413.0	EAST VSTS GROUND LEGACY FLOOR HVAC PIPING - BASE SCOPE
M-500.0	EAST VSTS MECHANICAL PART PLAN - BASE SCOPE
M-600.0	EAST VSTS HEATING AND COOLING SCHEMATIC - BASE SCOPE
M-601.0	EAST VSTS HVAC AIRSIDE SCHEMATIC - BASE SCOPE
M-602.0	EAST VSTS DOMESTIC WATER GAME SCHEMATIC - BASE SCOPE
M-603.0	EAST VSTS HVAC SANITARY GAME SCHEMATIC - BASE SCOPE
M-604.0	EAST VSTS HVAC STORM SCHEMATIC - BASE SCOPE
M-605.0	EAST VSTS DOMESTIC WATER LEGACY SCHEMATIC - BASE SCOPE
M-606.0	EAST VSTS HVAC SANITARY LEGACY SCHEMATIC - BASE SCOPE
M-700.0	CONTROLS SCHEMATICS - BASE SCOPE
M-800.0	MECHANICAL SCHEDULES I - BASE SCOPE
M-801.0	MECHANICAL SCHEDULES II - BASE SCOPE
M-802.0	MECHANICAL SCHEDULES III - BASE SCOPE
M-900.0	MECHANICAL DETAILS I - BASE SCOPE
M-901.0	MECHANICAL DETAILS II - BASE SCOPE



- GENERAL NOTES:**
1. NEW SERVICE CONNECTION LOCATIONS AND INVERTS SHALL BE AS SPECIFIED BY THE CIVIL ENGINEER. REFER TO CIVIL DRAWINGS FOR COORDINATION. MECHANICAL SCOPE OF WORK TO BEGIN 1500MM OUT FROM THE FOUNDATION WALL.
 2. SANITARY DRAIN PIPING TO BE AT MINIMUM 1% SLOPE, UNLESS OTHERWISE NOTED.
 3. ALL DIMENSIONS AND ELEVATIONS ARE TO BE CHECKED AND VERIFIED ON SITE BY THE CONTRACTOR AND DISCREPANCIES REPORTED PRIOR TO THE START OF WORK.
 4. MECHANICAL CONTRACTOR SHALL PROVIDE SCHEDULE 40 SLEEVES AND LINK SEALS FOR ALL SITE SERVICES.
 5. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL INVERTS AND COORDINATION WITH SITE SERVICES AND STRUCTURAL ELEMENTS.
 6. PROVIDE ELECTRIC PIPE TRACING ON ALL PIPING SUBJECT TO FREEZING OR IN UNHEATED SPACES.
 7. WATER METER WILL BE RELOCATED FROM THE BUNKER ITO THE BUILDING DURING CONSTRUCTION.



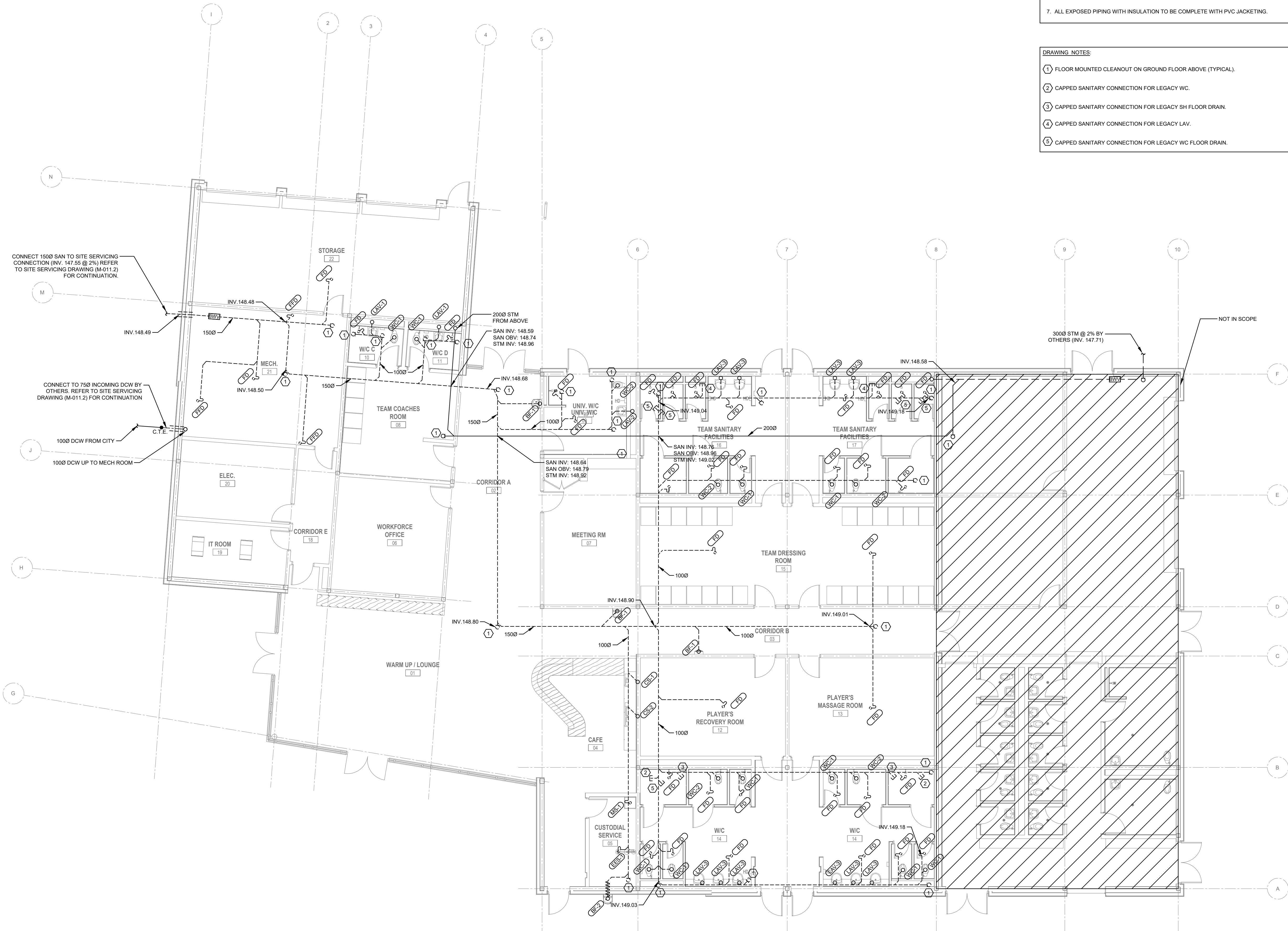
ISSUED FOR TENDER	2024-11-06
ISSUED FOR PROGRESS	2024-09-02
ISSUED FOR PROGRESS	2024-08-15
revision	690



FIFA - EAST VSTS
CENTENNIAL PARK
Address: 56 Centennial Park Rd. Toronto, ON
EAST VSTS SITE PLAN - BASE
SCOPE

project no. : 2024-0112
scale : 1:600
date :
drawing no. :

M-011.0

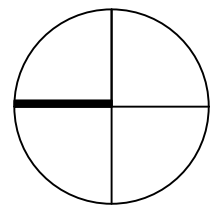


- GENERAL NOTES:**
- SANITARY DRAIN PIPING TO BE AT MINIMUM 1% SLOPE, UNLESS OTHERWISE NOTED.
 - ALL DIMENSIONS AND ELEVATIONS ARE TO BE CHECKED AND VERIFIED ON SITE BY THE CONTRACTOR AND DISCREPANCIES REPORTED PRIOR TO THE START OF WORK.
 - ALL FOUNDATION PLUMBING TO BE PVC.
 - PROVIDE COMPLETE SANITARY VENT SYSTEM IN ACCORDANCE WITH THE OBC.
 - PROVIDE CLEANOUTS ON ALL DRAINAGE AND WASTE SYSTEMS, NOT LIMITED TO CLEANOUTS SHOWN ON THE DRAWINGS.
 - ALL FLOOR DRAIN P-TRAPS SHALL BE PRIMED FROM A CENTRAL ELECTRONIC TRAP SEAL PRIMER. DIVISION 22 CONTRACTOR MUST COORDINATE WITH ELECTRICAL TRADE FOR CIRCUIT LOCATIONS DURING SHOP DRAWING STAGE, OTHERWISE DIVISION 22 TRADE WILL BE RESPONSIBLE FOR ALL COSTS ASSOCIATED WITH CIRCUIT WIRING.
 - ALL EXPOSED PIPING WITH INSULATION TO BE COMPLETE WITH PVC JACKETING.

- DRAWING NOTES:**
- FLOOR MOUNTED CLEANOUT ON GROUND FLOOR ABOVE (TYPICAL).
 - CAPPED SANITARY CONNECTION FOR LEGACY WC.
 - CAPPED SANITARY CONNECTION FOR LEGACY SH FLOOR DRAIN.
 - CAPPED SANITARY CONNECTION FOR LEGACY LAV.
 - CAPPED SANITARY CONNECTION FOR LEGACY WC FLOOR DRAIN.



ISSUED FOR TENDER	2024-11-08
ISSUED FOR PROGRESS	2024-08-23
ISSUED FOR PROGRESS	2024-08-15
REVISION	02/01



FIFA - EAST VSTS
CENTENNIAL PARK
Address: 56 Centennial Park Rd, Toronto, ON

EAST VSTS BELOW GRADE GAME
PLUMBING & DRAINAGE -
BASE SCOPE

project no. : 2024-0112
scale : 1:100
date :

drawing no. :

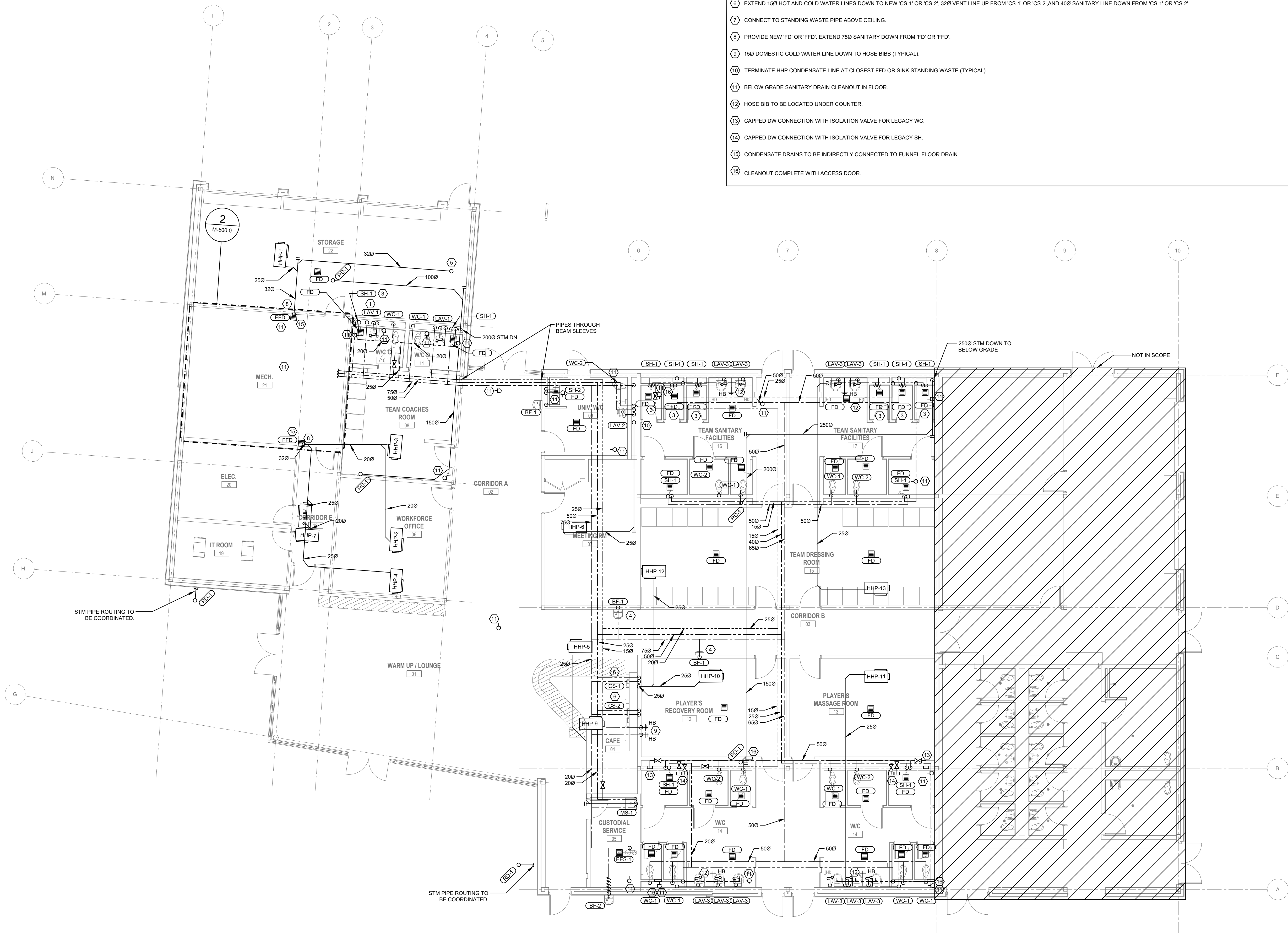
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GENERAL NOTES:

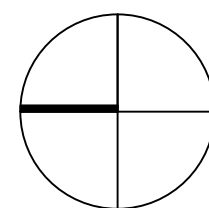
- SANITARY DRAIN PIPING TO BE AT MINIMUM 1% SLOPE, UNLESS OTHERWISE NOTED.
- CONTRACTOR SHOULD REFER TO REFLECTED CEILING PLAN FOR COORDINATION WITH MECHANICAL SERVICE AND DEVICES.
- ALL DIMENSIONS AND ELEVATIONS ARE TO BE CHECKED AND VERIFIED ON SITE BY THE CONTRACTOR AND DISCREPANCIES REPORTED PRIOR TO THE START OF WORK.
- ALL FOUNDATION PLUMBING TO BE PVC.
- PROVIDE COMPLETE SANITARY VENT SYSTEM IN ACCORDANCE WITH THE OBC.
- PROVIDE CLEANOUTS ON ALL DRAINAGE AND WASTE SYSTEMS, NOT LIMITED TO CLEANOUTS SHOWN ON THE DRAWINGS.
- ALL FLOOR DRAIN P-TRAPS SHALL BE PRIMED FROM A CENTRAL ELECTRONIC TRAP SEAL PRIMER. DIVISION 22 CONTRACTOR MUST COORDINATE WITH ELECTRICAL TRADE FOR CIRCUIT LOCATIONS DURING SHOP DRAWING STAGE. OTHERWISE DIVISION 22 TRADE WILL BE RESPONSIBLE FOR ALL COSTS ASSOCIATED WITH CIRCUIT WIRING.
- ALL EXPOSED PIPING WITH INSULATION TO BE COMPLETE WITH PVC JACKETING.
- ALL PIPING IN CEILING SPACE SHALL BE INSTALLED AS TIGHT AS POSSIBLE TO UNDERSIDE OF ROOF. WHERE POSSIBLE, RUN PIPES THROUGH OPEN WEB JOISTS. COORDINATE OPENINGS FOR PIPES THROUGH STRUCTURAL BEAMS WITH STRUCTURAL, AS REQUIRED.
- CONTRACTOR TO PROVIDE THRUST RESTRAINTS ON ALL PIPING SUBJECT TO POTENTIAL HYDROSTATIC HEAD AS OUTLINED IN SPEC SECTIONS 22 13 16 AND 22 14 16.
- PROVIDE EXPANSION LOOP FOR HYDRONIC PIPING FOR ANY STRAIGHT LENGTH OF 100FT OR GREATER.

DRAWING NOTES:

- EXTEND 150 HOT AND COLD WATER LINES DOWN TO NEW 'LAV-1', 'LAV-2', OR 'LAV-3', 320 VENT LINE UP FROM 'LAV-1', 'LAV-2', OR 'LAV-3' (TYPICAL).
- EXTEND 250 COLD WATER LINE DOWN TO NEW 'WC-1' OR 'WC-2', 500 VENT LINE UP FROM 'WC-1' OR 'WC-2', AND 750 SANITARY LINE DOWN FROM 'WC-1' OR 'WC-2' (TYPICAL).
- EXTEND 150 HOT AND COLD WATER LINES DOWN TO NEW 'SH-1' OR 'SH-2' AND 320 VENT LINE UP FROM 'SH-1' OR 'SH-2' (TYPICAL).
- PROVIDE NEW BOTTLE FILLER, 'BF-1' AS SPECIFIED. EXTEND NEW 150 COLD WATER LINE TO NEW BOTTLE FILLER 'BF-1', 320 VENT LINE UP FROM 'BF-1', AND 400 SANITARY LINE DOWN FROM 'BF-1' (TYPICAL).
- CONDENSATE DRAIN DOWN FROM MUA-1 ON ROOF.
- EXTEND 150 HOT AND COLD WATER LINES DOWN TO NEW 'CS-1' OR 'CS-2', 320 VENT LINE UP FROM 'CS-1' OR 'CS-2' AND 400 SANITARY LINE DOWN FROM 'CS-1' OR 'CS-2'.
- CONNECT TO STANDING WASTE PIPE ABOVE CEILING.
- PROVIDE NEW 'FD' OR 'FFD'. EXTEND 750 SANITARY DOWN FROM 'FD' OR 'FFD'.
- 150 DOMESTIC COLD WATER LINE DOWN TO HOSE BIBB (TYPICAL).
- TERMINATE HHP CONDENSATE LINE AT CLOSEST FFD OR SINK STANDING WASTE (TYPICAL).
- BELOW GRADE SANITARY DRAIN CLEANOUT IN FLOOR.
- HOSE BIB TO BE LOCATED UNDER COUNTER.
- CAPPED DW CONNECTION WITH ISOLATION VALVE FOR LEGACY WC.
- CAPPED DW CONNECTION WITH ISOLATION VALVE FOR LEGACY SH.
- CONDENSATE DRAINS TO BE INDIRECTLY CONNECTED TO FUNNEL FLOOR DRAIN.
- CLEANOUT COMPLETE WITH ACCESS DOOR.



ISSUED FOR TENDER: 2024-11-08
ISSUED FOR PROGRESS: 2024-08-23
ISSUED FOR PROGRESS: 2024-08-15
REVISION: 02/01



FIFA - EAST VSTS
CENTENNIAL PARK

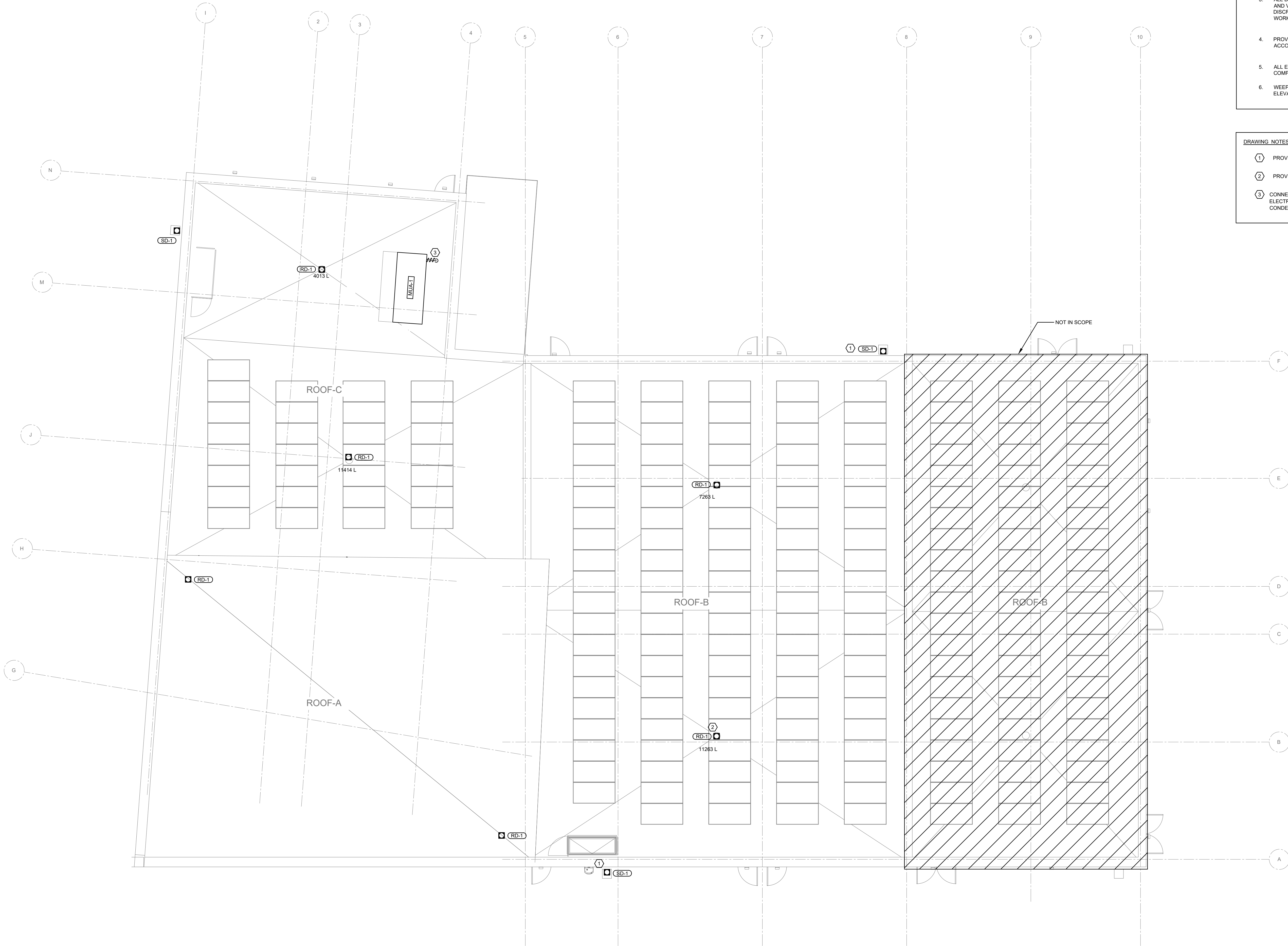
Address: 56 Centennial Park Rd, Toronto, ON

EAST VSTS GROUND FLOOR
GAME PLUMBING & DRAINAGE
- BASE SCOPE

project no.: 2024-0112
scale: 1:100
date:

drawing no.:

M-111.0

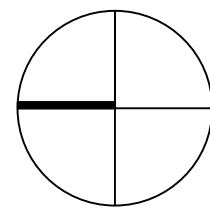


- GENERAL NOTES:
- SANITARY DRAIN PIPING TO BE AT MINIMUM 1% SLOPE, UNLESS OTHERWISE NOTED.
 - CONTRACTOR SHOULD REFER TO REFLECTED CEILING PLAN FOR COORDINATION WITH MECHANICAL SERVICE AND DEVICES.
 - ALL DIMENSIONS AND ELEVATIONS ARE TO BE CHECKED AND VERIFIED ON SITE BY THE CONTRACTOR AND DISCREPANCIES REPORTED PRIOR TO THE START OF WORK.
 - PROVIDE COMPLETE SANITARY VENT SYSTEM IN ACCORDANCE WITH THE OBC.
 - ALL EXPOSED PIPING WITH INSULATION TO BE COMPLETE WITH PVC JACKETING.
 - WEEPING TILE AND CONSTRUCTION OF WATERTIGHT ELEVATOR SHAFT BY OTHERS. (BELOW GRADE ONLY)

- DRAWING NOTES:
- PROVIDE SCUPPER DRAIN, (TYPICAL)
 - PROVIDE ROOF DRAIN, (TYPICAL)
 - CONNECT 320 DRAIN TO MUA-1. DRAIN LINES SHALL BE ELECTRICALLY HEAT TRACED ON ROOF. CONFIRM CONDENSATE DRAIN CONNECTION TO MUA-1 ON SITE.



ISSUED FOR TENDER	2024-11-06
ISSUED FOR PROGRESS	2024-09-02
ISSUED FOR PROGRESS	2024-06-15
revision	690



FIFA - EAST VSTS
CENTENNIAL PARK

Address: 56 Centennial Park Rd. Toronto, ON

EAST VSTS ROOF GAME
PLUMBING & DRAINAGE -
BASE SCOPE

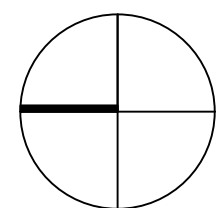
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scale : 1:100
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drawing no. :

M-112.0



ISSUED FOR TENDER	2024-11-08
ISSUED FOR PROGRESS	2024-08-22
ISSUED FOR PROGRESS	2024-08-15
revision	02/01



FIFA - EAST VSTS
CENTENNIAL PARK

Address: 56 Centennial Park Rd, Toronto, ON

EAST VSTS BELOW GRADE
LEGACY PLUMBING &
DRAINAGE - BASE SCOPE

project no. : 2024-0112
scale : 1:100
date :

drawing no. :

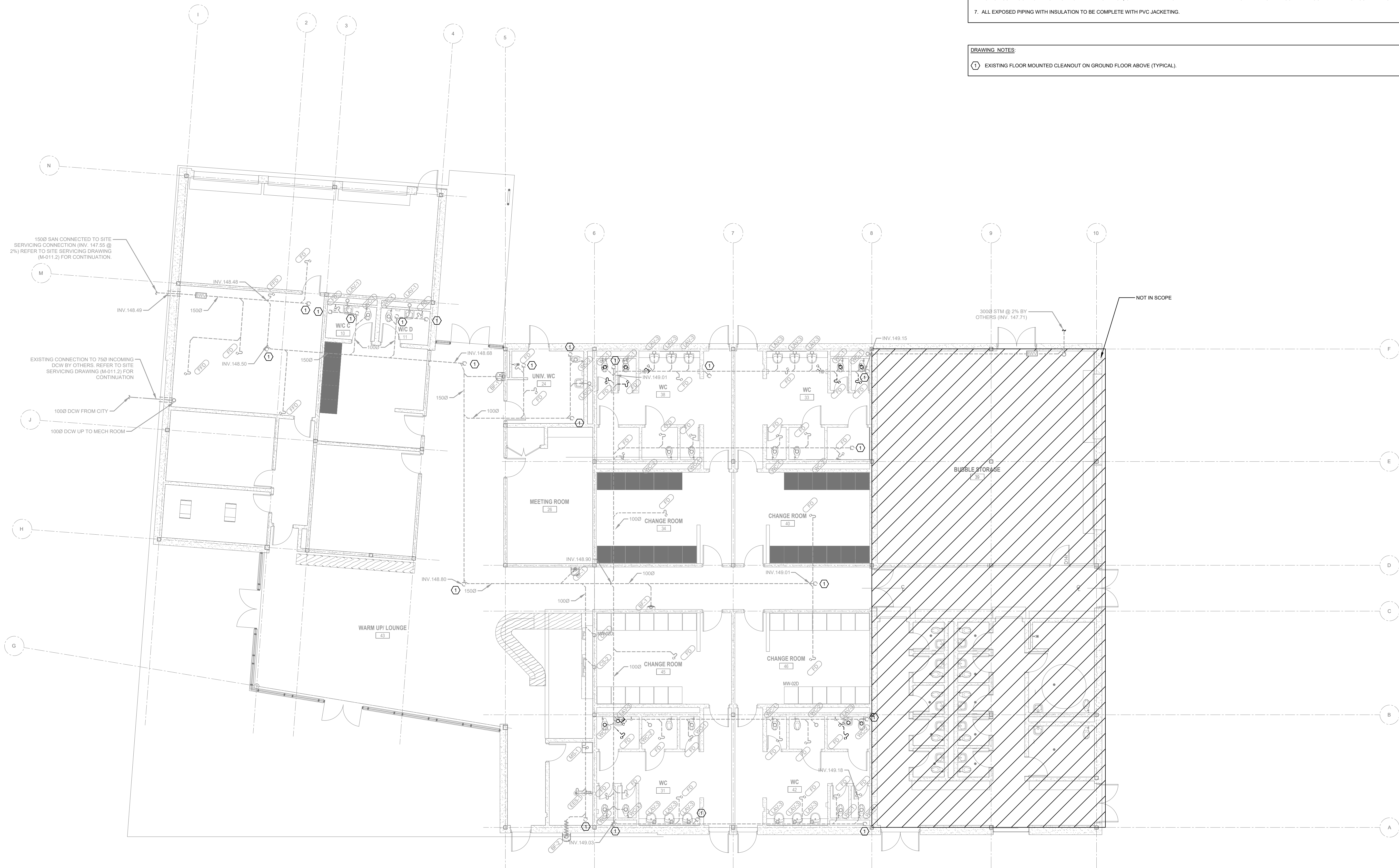
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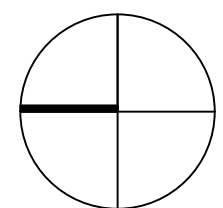
GENERAL NOTES:

1. SANITARY DRAIN PIPING TO BE AT MINIMUM 1% SLOPE, UNLESS OTHERWISE NOTED.
2. ALL DIMENSIONS AND ELEVATIONS ARE TO BE CHECKED AND VERIFIED ON SITE BY THE CONTRACTOR AND DISCREPANCIES REPORTED PRIOR TO THE START OF WORK.
3. ALL FOUNDATION PLUMBING TO BE PVC.
4. PROVIDE COMPLETE SANITARY VENT SYSTEM IN ACCORDANCE WITH THE OBC.
5. PROVIDE CLEANOUTS ON ALL DRAINAGE AND WASTE SYSTEMS, NOT LIMITED TO CLEANOUTS SHOWN ON THE DRAWINGS.
6. ALL FLOOR DRAIN P-TRAPS SHALL BE PRIMED FROM A CENTRAL ELECTRONIC TRAP SEAL PRIMER. DIVISION 22 CONTRACTOR MUST COORDINATE WITH ELECTRICAL TRADE FOR CIRCUIT LOCATIONS DURING SHOP DRAWING STAGE, OTHERWISE DIVISION 22 TRADE WILL BE RESPONSIBLE FOR ALL COSTS ASSOCIATED WITH CIRCUIT WIRING.
7. ALL EXPOSED PIPING WITH INSULATION TO BE COMPLETE WITH PVC JACKETING.

DRAWING NOTES:

- ① EXISTING FLOOR MOUNTED CLEANOUT ON GROUND FLOOR ABOVE (TYPICAL).





FIFA - EAST VSTS
CENTENNIAL PARK

Address: 56 Centennial Park Rd, Toronto, ON

EAST VSTS GROUND FLOOR
LEGACY PLUMBING &
DRAINAGE - BASE SCOPE

project no. : 2024-0112
scale : 1:100
date :

drawing no. :

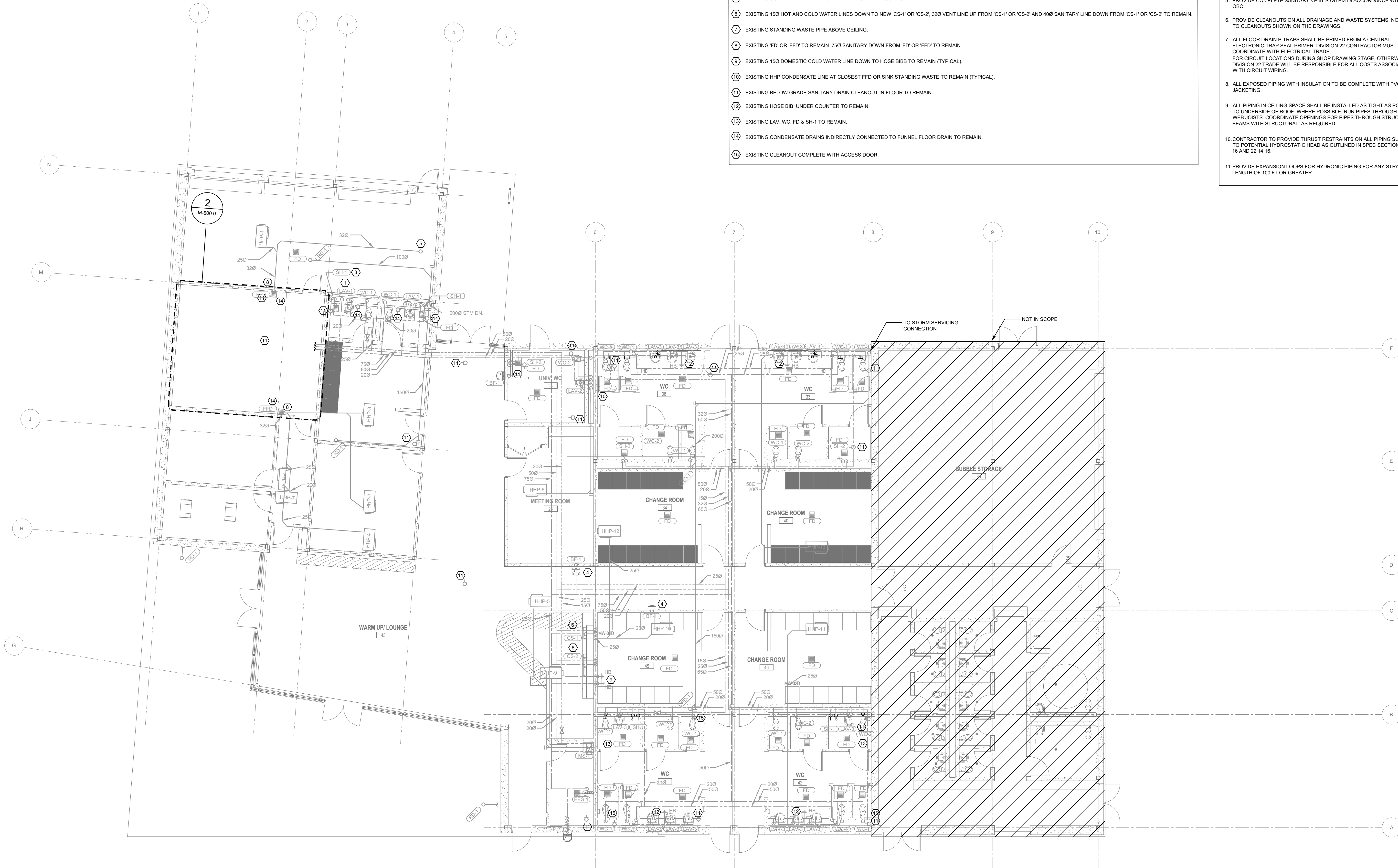
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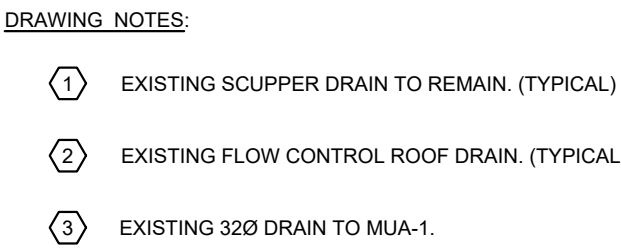
DRAWING NOTES:

- EXISTING 150 HOT AND COLD WATER LINES DOWN TO 'LAV-1', 'LAV-2', OR 'LAV-3', 320 VENT LINE UP FROM 'LAV-1', 'LAV-2', OR 'LAV-3', AND 400 SANITARY LINE DOWN FROM 'LAV-1', 'LAV-2', OR 'LAV-3' TO REMAIN (TYPICAL).
- EXISTING 250 COLD WATER LINE DOWN TO 'WC-1' OR 'WC-2', 500 VENT LINE UP FROM 'WC-1' OR 'WC-2', AND 750 SANITARY LINE DOWN FROM 'WC-1' OR 'WC-2' TO REMAIN (TYPICAL).
- EXISTING 150 HOT AND COLD WATER LINES DOWN TO 'SH-1' OR 'SH-2' AND 320 VENT LINE UP FROM 'SH-1' OR 'SH-2' TO REMAIN (TYPICAL).
- EXISTING BOTTLE FILLER, 'BF-1' TO REMAIN. EXISTING 150 COLD WATER LINE TO BOTTLE FILLER 'BF-1', 320 VENT LINE UP FROM 'BF-1', AND 400 SANITARY LINE DOWN FROM 'BF-1' TO REMAIN.
- EXISTING CONDENSATE DRAIN DOWN FROM MUA-1 ON ROOF TO REMAIN.
- EXISTING 150 HOT AND COLD WATER LINES DOWN TO NEW 'CS-1' OR 'CS-2', 320 VENT LINE UP FROM 'CS-1' OR 'CS-2', AND 400 SANITARY LINE DOWN FROM 'CS-1' OR 'CS-2' TO REMAIN.
- EXISTING STANDING WASTE PIPE ABOVE CEILING.
- EXISTING 'FD' OR 'FFD' TO REMAIN. 750 SANITARY DOWN FROM 'FD' OR 'FFD' TO REMAIN.
- EXISTING 150 DOMESTIC COLD WATER LINE DOWN TO HOSE BIBB TO REMAIN (TYPICAL).
- EXISTING HHP CONDENSATE LINE AT CLOSEST FFD OR SINK STANDING WASTE TO REMAIN (TYPICAL).
- EXISTING BELOW GRADE SANITARY DRAIN CLEANOUT IN FLOOR TO REMAIN.
- EXISTING HOSE BIB UNDER COUNTER TO REMAIN.
- EXISTING LAV, WC, FD & SH-1 TO REMAIN.
- EXISTING CONDENSATE DRAINS INDIRECTLY CONNECTED TO FUNNEL FLOOR DRAIN TO REMAIN.
- EXISTING CLEANOUT COMPLETE WITH ACCESS DOOR.

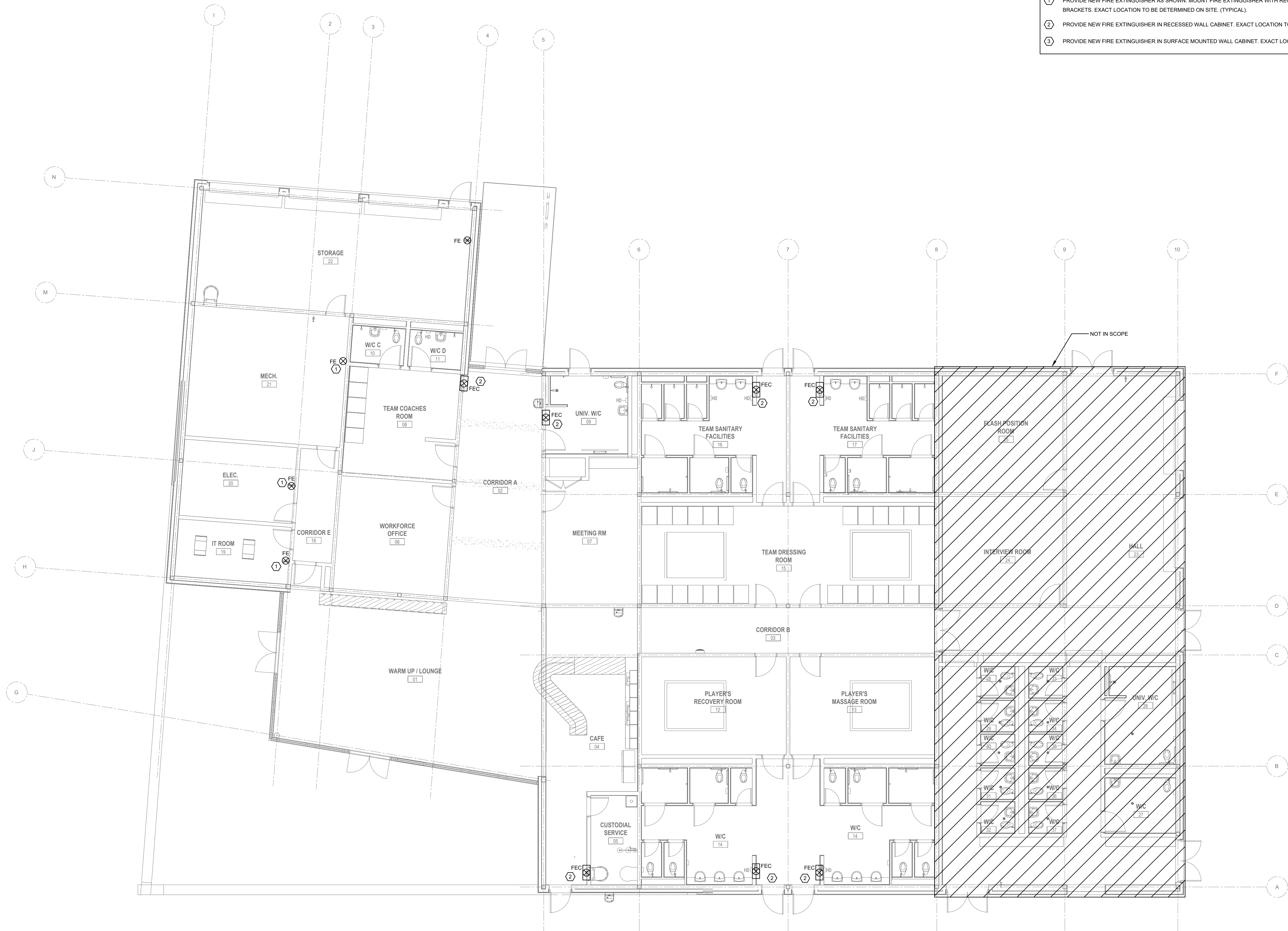
GENERAL NOTES:

- SANITARY DRAIN PIPING TO BE AT MINIMUM 1% SLOPE, UNLESS OTHERWISE NOTED.
- CONTRACTOR SHOULD REFER TO REFLECTED CEILING PLAN FOR COORDINATION WITH MECHANICAL SERVICE AND DEVICES.
- ALL DIMENSIONS AND ELEVATIONS ARE TO BE CHECKED AND VERIFIED ON SITE BY THE CONTRACTOR AND DISCREPANCIES REPORTED PRIOR TO THE START OF WORK.
- ALL FOUNDATION PLUMBING TO BE PVC.
- PROVIDE COMPLETE SANITARY VENT SYSTEM IN ACCORDANCE WITH THE OBC.
- PROVIDE CLEANOUTS ON ALL DRAINAGE AND WASTE SYSTEMS, NOT LIMITED TO CLEANOUTS SHOWN ON THE DRAWINGS.
- ALL FLOOR DRAIN P-TRAPS SHALL BE PRIMED FROM A CENTRAL ELECTRONIC TRAP SEAL PRIMER. DIVISION 22 CONTRACTOR MUST COORDINATE WITH ELECTRICAL TRADE FOR CIRCUIT LOCATIONS DURING SHOP DRAWING STAGE. OTHERWISE DIVISION 22 TRADE WILL BE RESPONSIBLE FOR ALL COSTS ASSOCIATED WITH CIRCUIT WIRING.
- ALL EXPOSED PIPING WITH INSULATION TO BE COMPLETE WITH PVC JACKETING.
- ALL PIPING IN CEILING SPACE SHALL BE INSTALLED AS TIGHT AS POSSIBLE TO UNDERSIDE OF ROOF. WHERE POSSIBLE, RUN PIPES THROUGH OPEN WEB JOISTS. COORDINATE OPENINGS FOR PIPES THROUGH STRUCTURAL BEAMS WITH STRUCTURAL, AS REQUIRED.
- CONTRACTOR TO PROVIDE THRUST RESTRAINTS ON ALL PIPING SUBJECT TO POTENTIAL HYDROSTATIC HEAD AS OUTLINED IN SPEC SECTIONS 22.13.16 AND 22.14.16.
- PROVIDE EXPANSION LOOPS FOR HYDRONIC PIPING FOR ANY STRAIGHT LENGTH OF 100 FT OR GREATER.





M-115.0



GENERAL NOTES:

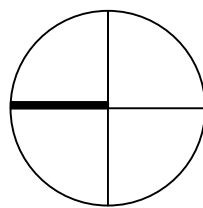
1. SPRINKLER HEAD LAYOUTS INDICATED SHOW GENERAL INTENT AND ARE FOR COORDINATION PURPOSES. COORDINATE EXACT LAYOUT WITH REFLECTED CEILING AND WORK OF OTHER TRADES.
2. CONTRACTOR SHOULD REFER TO REFLECTED CEILING PLAN FOR COORDINATION WITH MECHANICAL SERVICE AND DEVICES.

DRAWING NOTES:

- 1 PROVIDE NEW FIRE EXTINGUISHER AS SHOWN. MOUNT FIRE EXTINGUISHER WITH REQUIRED BRACKETS. EXACT LOCATION TO BE DETERMINED ON SITE. (TYPICAL).
- 2 PROVIDE NEW FIRE EXTINGUISHER IN RECESSED WALL CABINET. EXACT LOCATION TO BE DETERMINED ON SITE WITH ARCHITECT. (TYPICAL).
- 3 PROVIDE NEW FIRE EXTINGUISHER IN SURFACE MOUNTED WALL CABINET. EXACT LOCATION TO BE DETERMINED ON SITE WITH ARCHITECT. (TYPICAL).



ISSUED FOR TENDER	2024-11-06
ISSUED FOR PROGRESS	2024-09-02
ISSUED FOR PROGRESS	2024-08-15
revision	6202



**FIFA - EAST VSTS
CENTENNIAL PARK**

Address: 56 Centennial Park Rd. Toronto, ON

**EAST VSTS GROUND FLOOR
GAME FIRE PROTECTION -
BASE SCOPE**

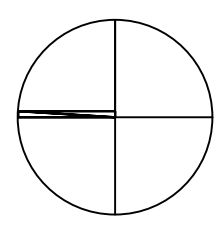
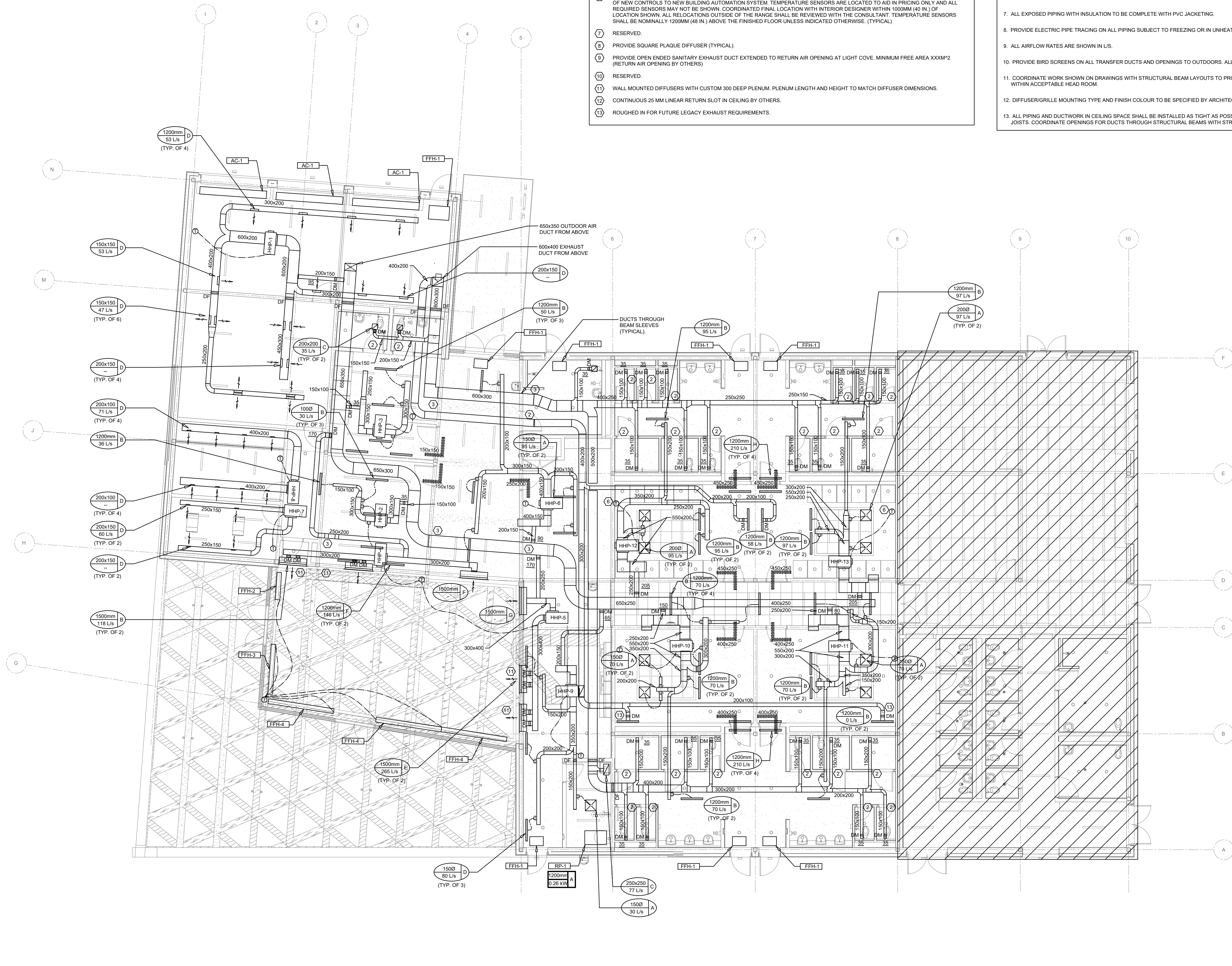
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date :

drawing no. :

M-211.0

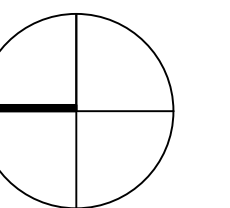
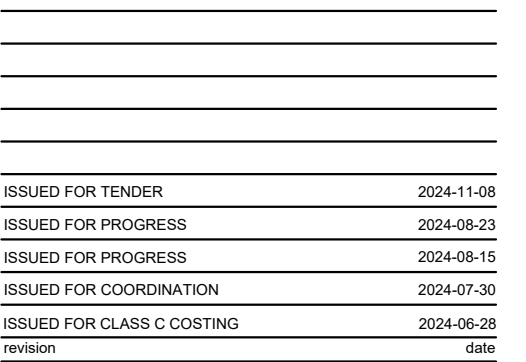
- DRAWING NOTES:**
1. PROVIDE 300x250 TYPE 'C' RETURN AIR GRILLES TYPICAL UNLESS NOTED OTHERWISE. (TYPICAL)
 2. DOOR SHALL BE UNDERCUT BY 1 IN FOR TRANSFER AIR. NOT BY DIVISION 23.
 3. DUCT LEVEL TO CHANGE TO ACCOMMODATE CEILING HEIGHT TRANSITION.
 4. PROVIDE NEW HORIZONTAL HEAT PUMP IN CEILING SPACE COMPLETE WITH WATER TIGHT DRIP PAN, ASSOCIATED CONTROLS, SUPPLY AND RETURN WATER LINES, METERS, DUCTWORK, HANGERS AND SUPPORTS. CONTRACTOR TO INSTALL NECESSARY FILTERS AT COMPLETION OF MECHANICAL WORK. (TYPICAL)
 5. PROVIDE AND INSTALL NEW ACOUSTICALLY LINED TRANSFER AIR DUCT. FINAL LOCATION AND QUANTITY OF TRANSFER AIR DUCTS TO SUIT SITE CONDITIONS. (TYPICAL)
 6. CONTROLS CONTRACTOR TO PROVIDE AND INSTALL NEW TEMPERATURE SENSOR FOR SPACE HEAT PUMPS. ALLOW FOR INTEGRATION OF NEW CONTROLS TO NEW BUILDING AUTOMATION SYSTEM. TEMPERATURE SENSORS ARE LOCATED TO AID IN PRICING ONLY AND ALL REQUIRED SENSORS MAY NOT BE SHOWN. COORDINATED FINAL LOCATION WITH INTERIOR DESIGNER WITHIN 1000MM (40 IN.) OF LOCATION SHOWN. ALL RELATIONS OUTSIDE OF THE RANGE SHALL BE REVIEWED WITH THE CONSULTANT. TEMPERATURE SENSORS SHALL BE NOMINALLY 1200MM (48 IN.) ABOVE THE FINISHED FLOOR UNLESS INDICATED OTHERWISE. (TYPICAL)
 7. RESERVED.
 8. PROVIDE SQUARE PLAQUE DIFFUSER (TYPICAL).
 9. PROVIDE OPEN ENDED SANITARY EXHAUST DUCT EXTENDED TO RETURN AIR OPENING AT LIGHT COVE. MINIMUM FREE AREA XXXM². (RETURN AIR OPENING BY OTHERS)
 10. RESERVED.
 11. WALL MOUNTED DIFFUSERS WITH CUSTOM 300 DEEP PLENUM. PLENUM LENGTH AND HEIGHT TO MATCH DIFFUSER DIMENSIONS.
 12. CONTINUOUS 25 MM LINEAR RETURN SLOT IN CEILING BY OTHERS.
 13. ROUGHED IN FOR FUTURE LEGACY EXHAUST REQUIREMENTS.

- GENERAL NOTES:**
1. CONTRACTOR SHOULD REFER TO REFLECTED CEILING PLAN FOR COORDINATION WITH MECHANICAL EQUIPMENT.
 2. CONTRACTOR TO CALIBRATE ALL NEW THERMOSTATS AT COMPLETION OF MECHANICAL WORK.
 3. CONTRACTOR TO ENSURE THAT NEW TAKEOFFS ARE EQUIPPED WITH BALANCING DAMPERS. PROVIDE TAKEOFFS WITH BALANCING DAMPERS FOR EXISTING TAKEOFFS.
 4. CONTRACTOR SHALL BALANCE ALL ASSOCIATED DUCT SYSTEMS TO SUIT THE NEW AIR QUANTITIES.
 5. PROVIDE ADEQUATELY SIZED ACCESS PANELS FOR ALL DAMPERS, SENSORS, AND OTHER DEVICES MOUNTED WITHIN DUCTS.
 6. CONTRACTOR TO COORDINATE FIRE DAMPER LOCATIONS WITH ARCHITECT'S FIRE SEPARATION PLAN.
 7. ALL EXPOSED PIPING WITH INSULATION TO BE COMPLETE WITH PVC JACKETING.
 8. PROVIDE ELECTRIC PIPE TRACING ON ALL PIPING SUBJECT TO FREEZING OR IN UNHEATED SPACES.
 9. ALL AIRFLOW RATES ARE SHOWN IN L/S.
 10. PROVIDE BIRD SCREENS ON ALL TRANSFER DUCTS AND OPENINGS TO OUTDOORS. ALL NEW LOUVER CONNECTIONS IN CONDITIONED AREAS TO HAVE INSULATED PLENUMS.
 11. COORDINATE WORK SHOWN ON DRAWINGS WITH STRUCTURAL BEAM LAYOUTS TO PROVIDE PIPE SLEEVE AND/OR DUCT OPENINGS NECESSARY TO MAINTAIN MECHANICAL WORK WITHIN ACCEPTABLE HEAD ROOM.
 12. DIFFUSER/GRILLE MOUNTING TYPE AND FINISH COLOUR TO BE SPECIFIED BY ARCHITECT.
 13. ALL PIPING AND DUCTWORK IN CEILING SPACE SHALL BE INSTALLED AS TIGHT AS POSSIBLE TO UNDERSIDE OF FLOOR SLAB. WHERE POSSIBLE, RUN DUCTS THROUGH OPEN WEB JOISTS. COORDINATE OPENINGS FOR DUCTS THROUGH STRUCTURAL BEAMS WITH STRUCTURAL, AS REQUIRED.



1	PROVIDE NEW MAKE-UP AIR UNIT, COMPLETE WITH ROOF CURB, ALL REQUIRED DUCTWORK, SILENCERS, GRILLES/DIFFUSERS, PIPING AND CONTROLS.
2	PROVIDE NEW ELECTRIC HUMIDIFIER, COMPLETE WITH ROOF CURB, DISPERSION MANIFOLD, PIPING AND CONTROLS.

1. ALL EXPOSED PIPING WITH INSULATION TO BE COMPLETE WITH PVC JACKETING.
2. PROVIDE ELECTRIC PIPE TRACING ON ALL PIPING SUBJECT TO FREEZING OR IN UNHEATED SPACES.
3. ALL AIRFLOW RATES ARE SHOWN IN L/S .
4. PROVIDE BIRD SCREENS ON ALL TRANSFER DUCTS AND OPENINGS TO OUTDOORS. ALL NEW LOUVER CONNECTIONS IN CONDITIONED AREAS TO HAVE INSULATED PLENUMS.

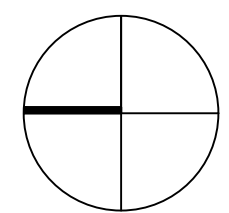
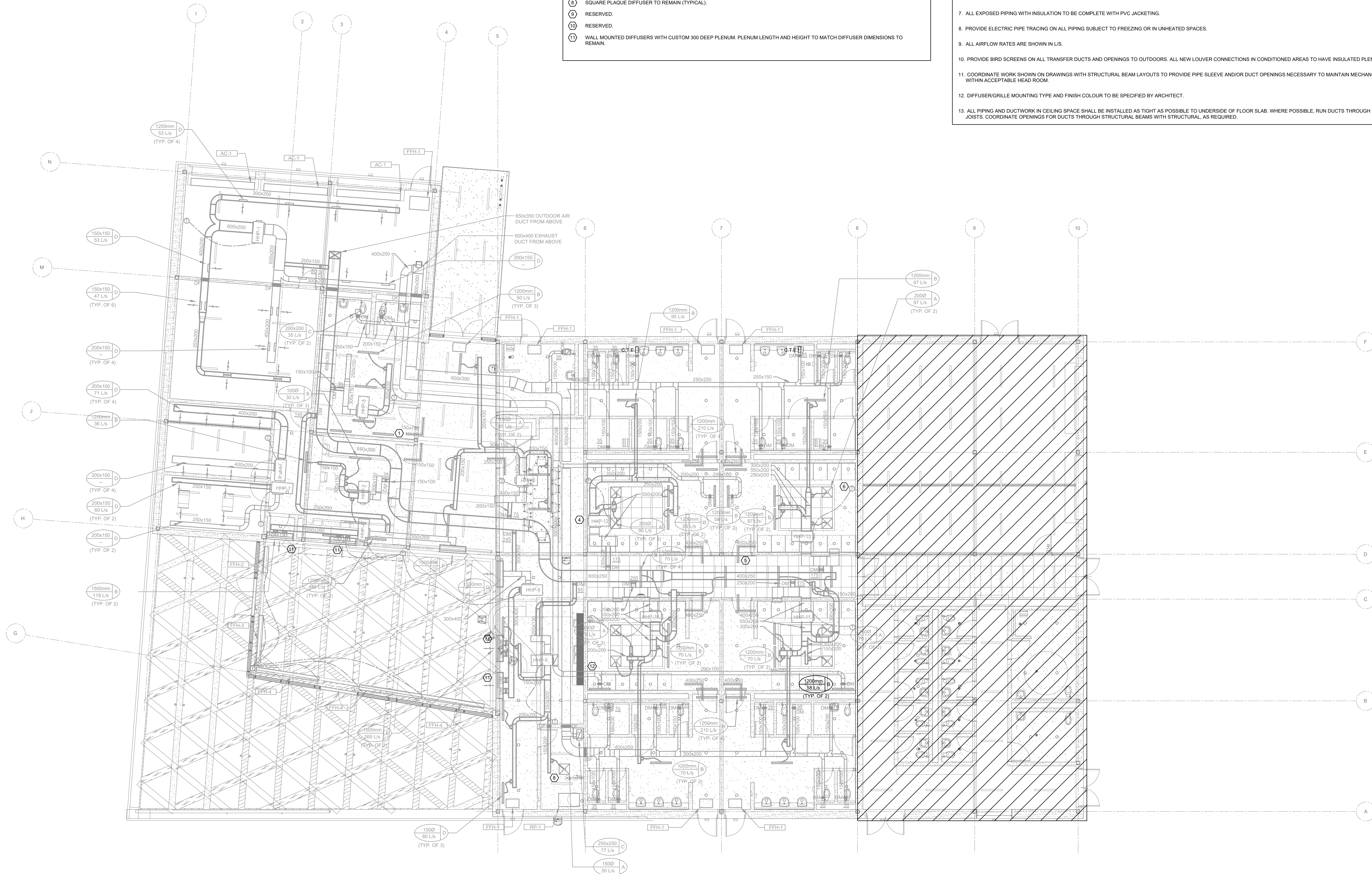


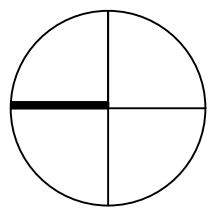
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M-312.0

- DRAWING NOTES:**
1. RETURN AIR GRILLE TO REMAIN (TYPICAL)
 2. RESERVED.
 3. RESERVED.
 4. HORIZONTAL HEAT PUMP TO REMAIN (TYPICAL)
 5. TRANSFER AIR DUCT TO REMAIN (TYPICAL)
 6. TEMPERATURE SENSOR TO REMAIN (TYPICAL)
 7. RESERVED.
 8. SQUARE PLAQUE DIFFUSER TO REMAIN (TYPICAL).
 9. RESERVED.
 10. RESERVED.
 11. WALL MOUNTED DIFFUSERS WITH CUSTOM 300 DEEP PLENUM. PLENUM LENGTH AND HEIGHT TO MATCH DIFFUSER DIMENSIONS TO REMAIN.

- GENERAL NOTES:**
1. CONTRACTOR SHOULD REFER TO REFLECTED CEILING PLAN FOR COORDINATION WITH MECHANICAL EQUIPMENT.
 2. CONTRACTOR TO CALIBRATE ALL NEW THERMOSTATS AT COMPLETION OF MECHANICAL WORK.
 3. CONTRACTOR TO ENSURE THAT NEW TAKEOFFS ARE EQUIPPED WITH BALANCING DAMPERS. PROVIDE TAKEOFFS WITH BALANCING DAMPERS FOR EXISTING TAKEOFFS.
 4. CONTRACTOR SHALL BALANCE ALL ASSOCIATED DUCT SYSTEMS TO SUIT THE NEW AIR QUANTITIES.
 5. PROVIDE ADEQUATELY SIZED ACCESS PANELS FOR ALL DAMPERS, SENSORS, AND OTHER DEVICES MOUNTED WITHIN DUCTS.
 6. CONTRACTOR TO COORDINATE FIRE DAMPER LOCATIONS WITH ARCHITECT'S FIRE SEPARATION PLAN.
 7. ALL EXPOSED PIPING WITH INSULATION TO BE COMPLETE WITH PVC JACKETING.
 8. PROVIDE ELECTRIC PIPE TRACING ON ALL PIPING SUBJECT TO FREEZING OR IN UNHEATED SPACES.
 9. ALL AIRFLOW RATES ARE SHOWN IN L/S.
 10. PROVIDE BIRD SCREENS ON ALL TRANSFER DUCTS AND OPENINGS TO OUTDOORS. ALL NEW LOUVER CONNECTIONS IN CONDITIONED AREAS TO HAVE INSULATED PLENUMS.
 11. COORDINATE WORK SHOWN ON DRAWINGS WITH STRUCTURAL BEAM LAYOUTS TO PROVIDE PIPE SLEEVE AND/OR DUCT OPENINGS NECESSARY TO MAINTAIN MECHANICAL WORK WITHIN ACCEPTABLE HEAD ROOM.
 12. DIFFUSER/GRILLE MOUNTING TYPE AND FINISH COLOUR TO BE SPECIFIED BY ARCHITECT.
 13. ALL PIPING AND DUCTWORK IN CEILING SPACE SHALL BE INSTALLED AS TIGHT AS POSSIBLE TO UNDERSIDE OF FLOOR SLAB. WHERE POSSIBLE, RUN DUCTS THROUGH OPEN WEB JOISTS. COORDINATE OPENINGS FOR DUCTS THROUGH STRUCTURAL BEAMS WITH STRUCTURAL, AS REQUIRED.



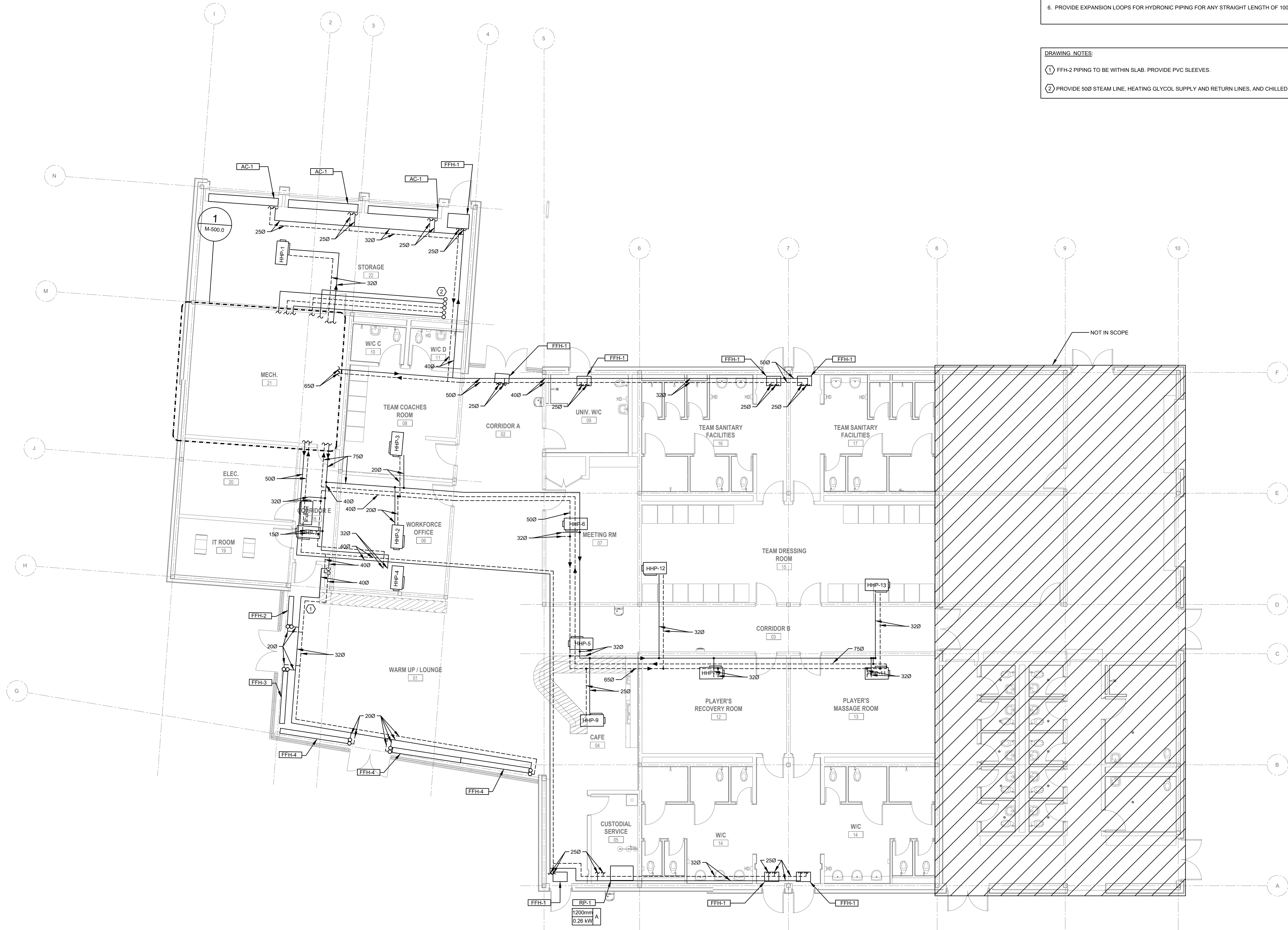


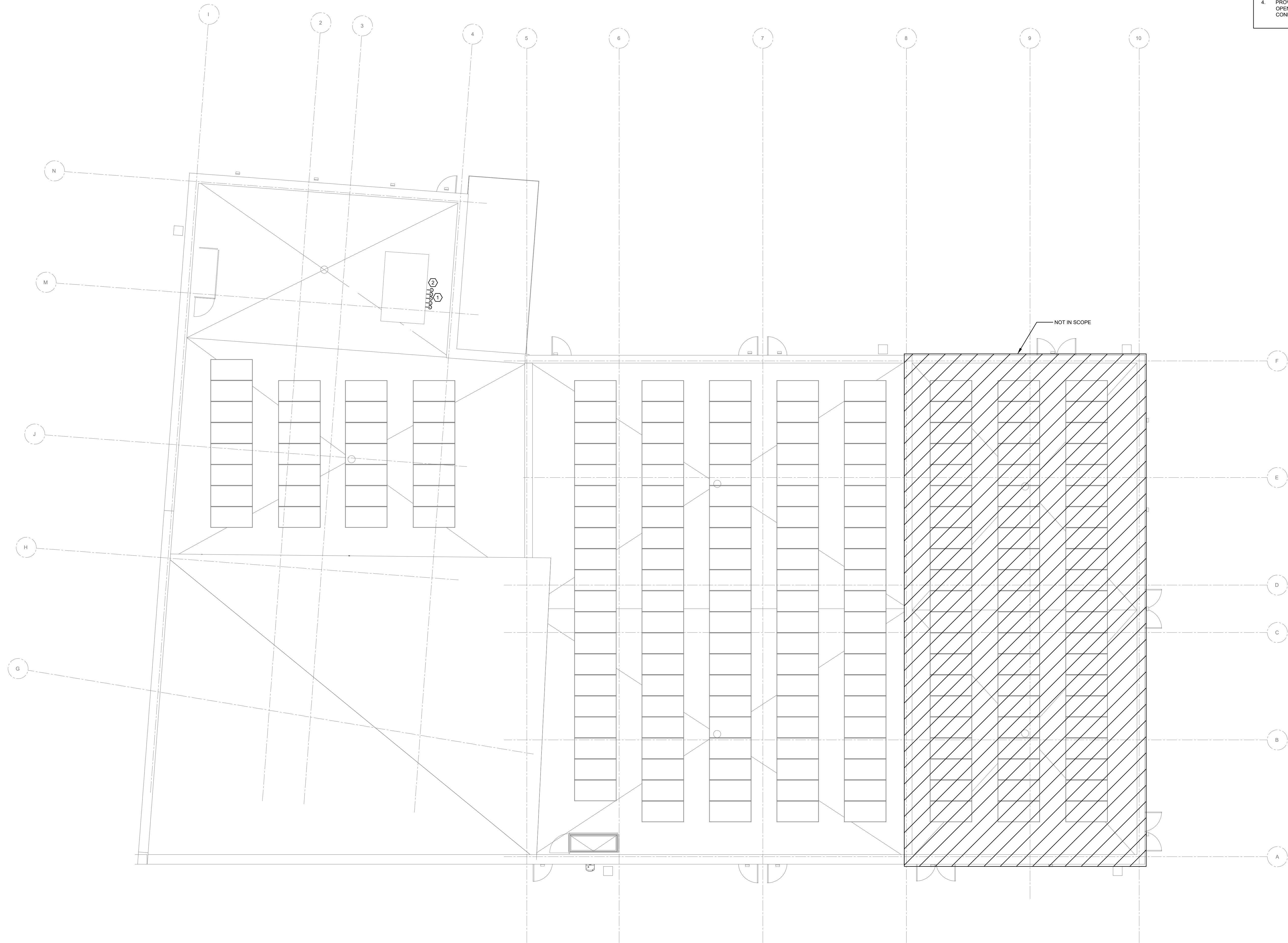
GENERAL NOTES:

1. CONTRACTOR SHOULD REFER TO REFLECTED CEILING PLAN FOR COORDINATION WITH MECHANICAL EQUIPMENT.
2. ALL EXPOSED PIPING WITH INSULATION TO BE COMPLETE WITH PVC JACKETING.
3. PROVIDE ELECTRIC PIPE TRACING ON ALL PIPING SUBJECT TO FREEZING OR IN UNHEATED SPACES.
4. COORDINATE WORK SHOWN ON DRAWINGS WITH STRUCTURAL BEAM LAYOUTS TO PROVIDE PIPE SLEEVE AND/OR DUCT OPENINGS NECESSARY TO MAINTAIN MECHANICAL WORK WITHIN ACCEPTABLE HEAD ROOM.
5. ALL PIPING AND DUCTWORK IN CEILING SPACE SHALL BE INSTALLED AS TIGHT AS POSSIBLE TO UNDERSIDE OF FLOOR SLAB. WHERE POSSIBLE, RUN PIPES THROUGH OPEN WEB JOISTS. COORDINATE OPENINGS FOR PIPES THROUGH STRUCTURAL BEAMS WITH STRUCTURAL, AS REQUIRED.
6. PROVIDE EXPANSION LOOPS FOR HYDRONIC PIPING FOR ANY STRAIGHT LENGTH OF 100 FT OR GREATER.

DRAWING NOTES:

- ① FFH-2 PIPING TO BE WITHIN SLAB. PROVIDE PVC SLEEVES.
- ② PROVIDE 500 STEAM LINE, HEATING GLYCOL SUPPLY AND RETURN LINES, AND CHILLED WATER SUPPLY AND RETURN LINES UP TO MUA-1 ON ROOF.



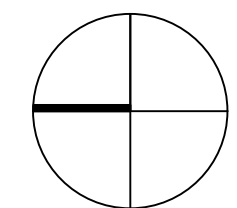


- DRAWING NOTES:**
1. EXTEND HEATING GLYCOL AND COOLING GLYCOL SUPPLY AND RETURN LINES FROM MAKE-UP AIR UNIT, MUA-1, DOWN TO CEILING SPACE BELOW.
 2. EXTEND 500 STEAM LINE TO HUMIDIFIER MANIFOLD WITHIN MUA-1.

- GENERAL NOTES:**
1. ALL EXPOSED PIPING WITH INSULATION TO BE COMPLETE WITH PVC JACKETING.
 2. PROVIDE ELECTRIC PIPE TRACING ON ALL PIPING SUBJECT TO FREEZING OR IN UNHEATED SPACES.
 3. ALL AIRFLOW RATES ARE SHOWN IN L/S.
 4. PROVIDE BIRD SCREENS ON ALL TRANSFER DUCTS AND OPENINGS TO OUTDOORS. ALL NEW LOUVER CONNECTIONS IN CONDITIONED AREAS TO HAVE INSULATED PLENUMS.



ISSUED FOR TENDER	2024-11-08
ISSUED FOR PROGRESS	2024-09-23
ISSUED FOR PROGRESS	2024-08-15
revision	0204



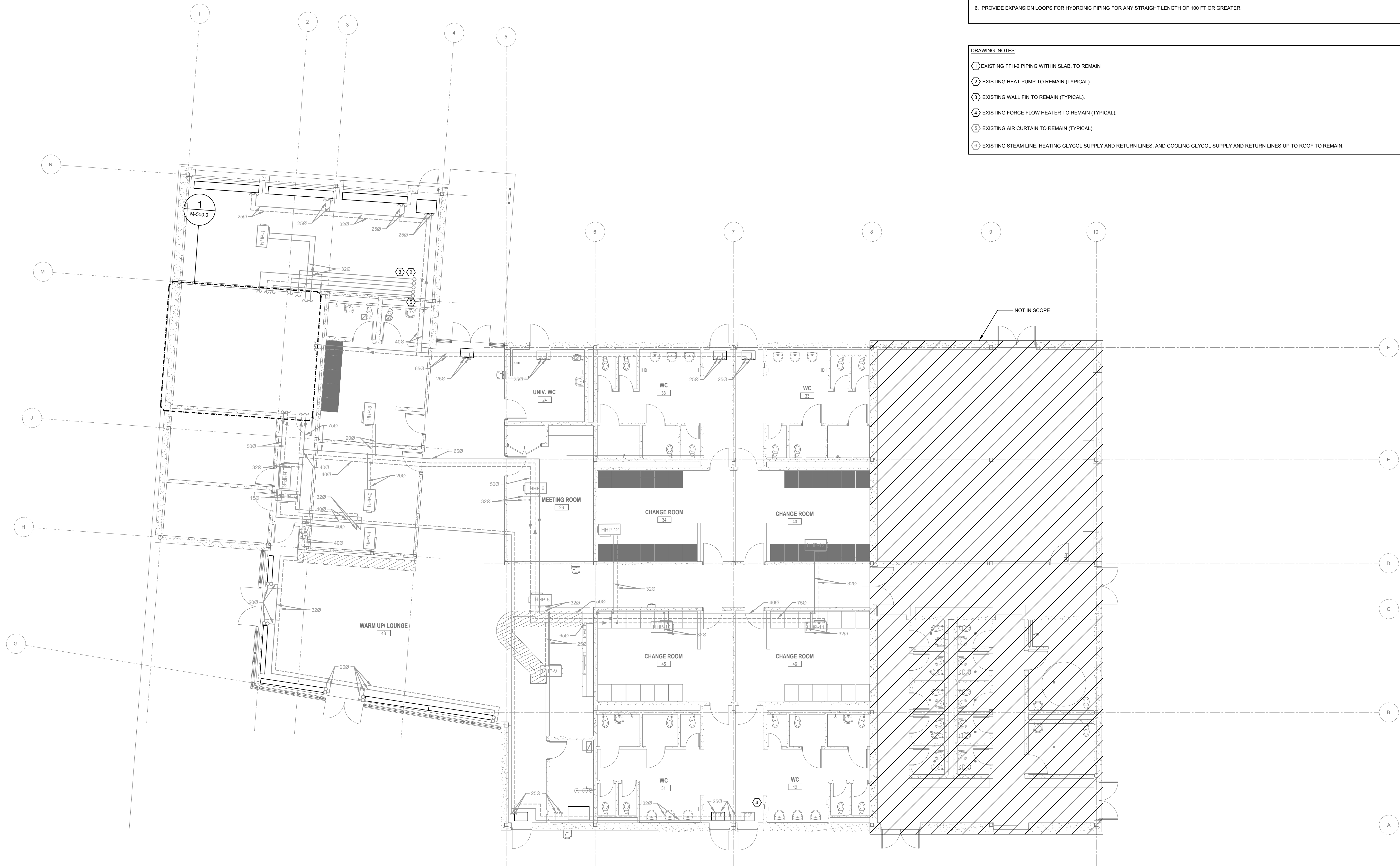
FIFA - EAST VSTS
CENTENNIAL PARK
Address: 56 Centennial Park Rd, Toronto, ON

EAST VSTS ROOF GAME
HVAC PIPING - BASE SCOPE

project no. : 2024-0112
scale : 1:100
date :

drawing no. :

M-412.0

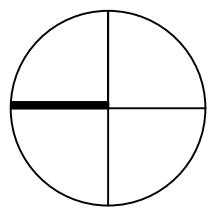


- GENERAL NOTES:**
1. CONTRACTOR SHOULD REFER TO REFLECTED CEILING PLAN FOR COORDINATION WITH MECHANICAL EQUIPMENT.
 2. ALL EXPOSED PIPING WITH INSULATION TO BE COMPLETE WITH PVC JACKETING.
 3. PROVIDE ELECTRIC PIPE TRACING ON ALL PIPING SUBJECT TO FREEZING OR IN UNHEATED SPACES.
 4. COORDINATE WORK SHOWN ON DRAWINGS WITH STRUCTURAL BEAM LAYOUTS TO PROVIDE PIPE SLEEVE AND/OR DUCT OPENINGS NECESSARY TO MAINTAIN MECHANICAL WORK WITHIN ACCEPTABLE HEAD ROOM.
 5. ALL PIPING AND DUCTWORK IN CEILING SPACE SHALL BE INSTALLED AS TIGHT AS POSSIBLE TO UNDERSIDE OF FLOOR SLAB. WHERE POSSIBLE, RUN PIPES THROUGH OPEN WEB JOISTS. COORDINATE OPENINGS FOR PIPES THROUGH STRUCTURAL BEAMS WITH STRUCTURAL, AS REQUIRED.
 6. PROVIDE EXPANSION LOOPS FOR HYDRONIC PIPING FOR ANY STRAIGHT LENGTH OF 100 FT OR GREATER.

- DRAWING NOTES:**
- ① EXISTING FFH-2 PIPING WITHIN SLAB. TO REMAIN
 - ② EXISTING HEAT PUMP TO REMAIN (TYPICAL).
 - ③ EXISTING WALL FIN TO REMAIN (TYPICAL).
 - ④ EXISTING FORCE FLOW HEATER TO REMAIN (TYPICAL).
 - ⑤ EXISTING AIR CURTAIN TO REMAIN (TYPICAL).
 - ⑥ EXISTING STEAM LINE, HEATING GLYCOL SUPPLY AND RETURN LINES, AND COOLING GLYCOL SUPPLY AND RETURN LINES UP TO ROOF TO REMAIN.



ISSUED FOR TENDER	2024-11-08
ISSUED FOR PROGRESS	2024-09-23
ISSUED FOR PROGRESS	2024-08-15
revision	date



FIFA - EAST VSTS
CENTENNIAL PARK
Address: 56 Centennial Park Rd. Toronto, ON
EAST VSTS GROUND LEGACY
FLOOR HVAC PIPING
- BASE SCOPE

project no. : 2024-0112
scale : 1:100
date :
drawing no. :

M-413.0

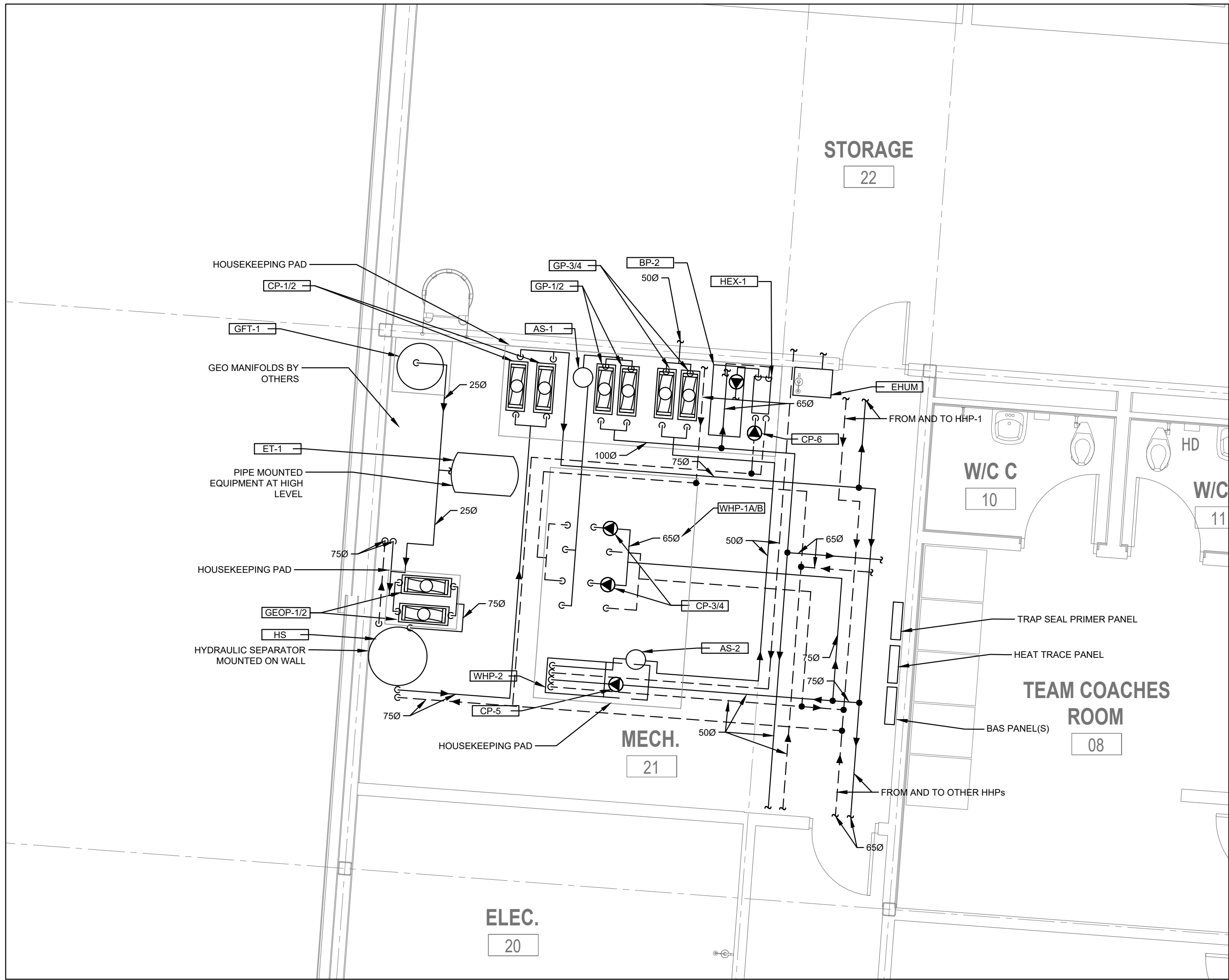


GENERAL NOTES:

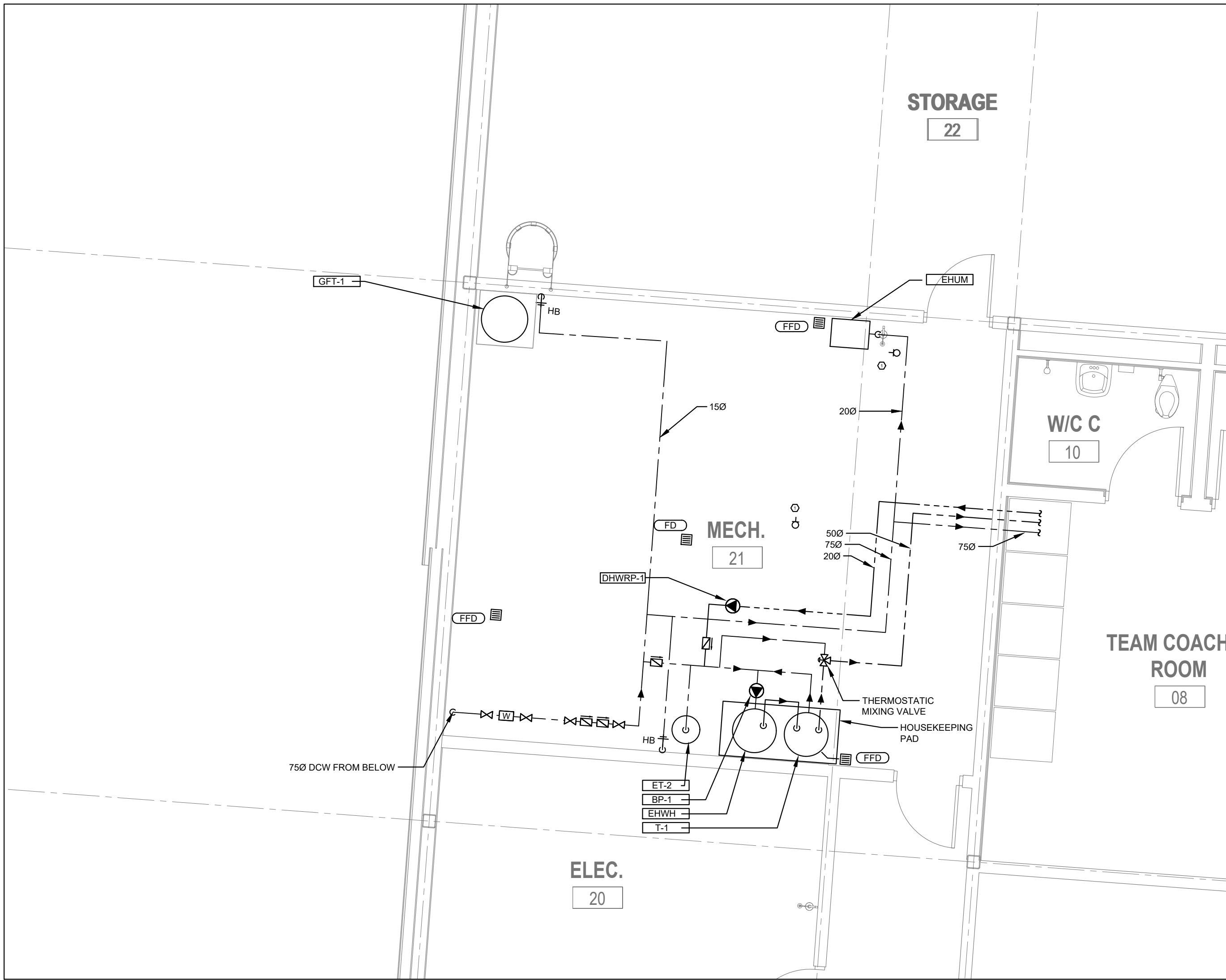
1. SANITARY DRAIN PIPING TO BE AT MINIMUM 1% SLOPE, UNLESS OTHERWISE NOTED.
2. CONTRACTOR SHOULD REFER TO REFLECTED CEILING PLAN FOR COORDINATION WITH MECHANICAL SERVICE AND DEVICES.
3. ALL DIMENSIONS AND ELEVATIONS ARE TO BE CHECKED AND VERIFIED ON SITE BY THE CONTRACTOR AND DISCREPANCIES REPORTED PRIOR TO THE START OF WORK.
4. ALL FOUNDATION PLUMBING TO BE PVC.
5. PROVIDE COMPLETE SANITARY VENT SYSTEM IN ACCORDANCE WITH THE OBC.
6. PROVIDE CLEANOUTS ON ALL DRAINAGE AND WASTE SYSTEMS, NOT LIMITED TO CLEANOUTS SHOWN ON THE DRAWINGS.
7. ALL FLOOR DRAIN P-TRAPS SHALL BE PRIMED FROM A CENTRAL ELECTRONIC TRAP SEAL PRIMER, DIVISION 22 CONTRACTOR MUST COORDINATE WITH ELECTRICAL TRADE FOR CIRCUIT LOCATIONS DURING SCOPE DRAWING STAGE, OTHERWISE DIVISION 22 TRADE WILL BE RESPONSIBLE FOR ALL COSTS ASSOCIATED WITH CIRCUIT WIRING.
8. ALL EXPOSED PIPING WITH INSULATION TO BE COMPLETE WITH PVC JACKETING.
9. ALL PIPING IN CEILING SPACE SHALL BE INSTALLED AS TIGHT AS POSSIBLE TO UNDERSIDE OF ROOF.
10. CONTRACTOR TO PROVIDE THRUST RESTRAINTS ON ALL PIPING SUBJECT TO POTENTIAL HYDROSTATIC HEAD AS OUTLINED IN SPEC SECTIONS 22 13 16 AND 22 14 16.
11. COORDINATE WORK SHOWN ON DRAWINGS WITH STRUCTURAL BEAM LAYOUTS TO PROVIDE PIPE SLEEVE AND/OR DUCT OPENINGS NECESSARY TO MAINTAIN MECHANICAL WORK WITHIN ACCEPTABLE HEAD ROOM.

DRAWING NOTES:

1. BELOW GRADE SANITARY DRAIN CLEANOUT IN FLOOR.
2. WATER METER TO BE RELOCATED FROM IRRIGATION BUNKER (OUTSIDE OF BUILDING) TO WITHIN BUILDING MECHANICAL ROOM DURING CONSTRUCTION.

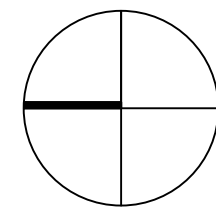


1 HVAC PIPING MECHANICAL ROOM PART PLAN
M-500.0 SCALE: 1:50



2 PLUMBING & DRAINAGE MECHANICAL ROOM PART PLAN
M-500.0 SCALE: 1:50

ISSUED FOR TENDER 2024-11-08
ISSUED FOR PROGRESS 2024-09-23
revision 690



FIFA - EAST VSTS
CENTENNIAL PARK

Address: 56 Centennial Park Rd. Toronto, ON

EAST VSTS GROUND FLOOR
MECHANICAL ROOM PART
PLAN - BASE SCOPE

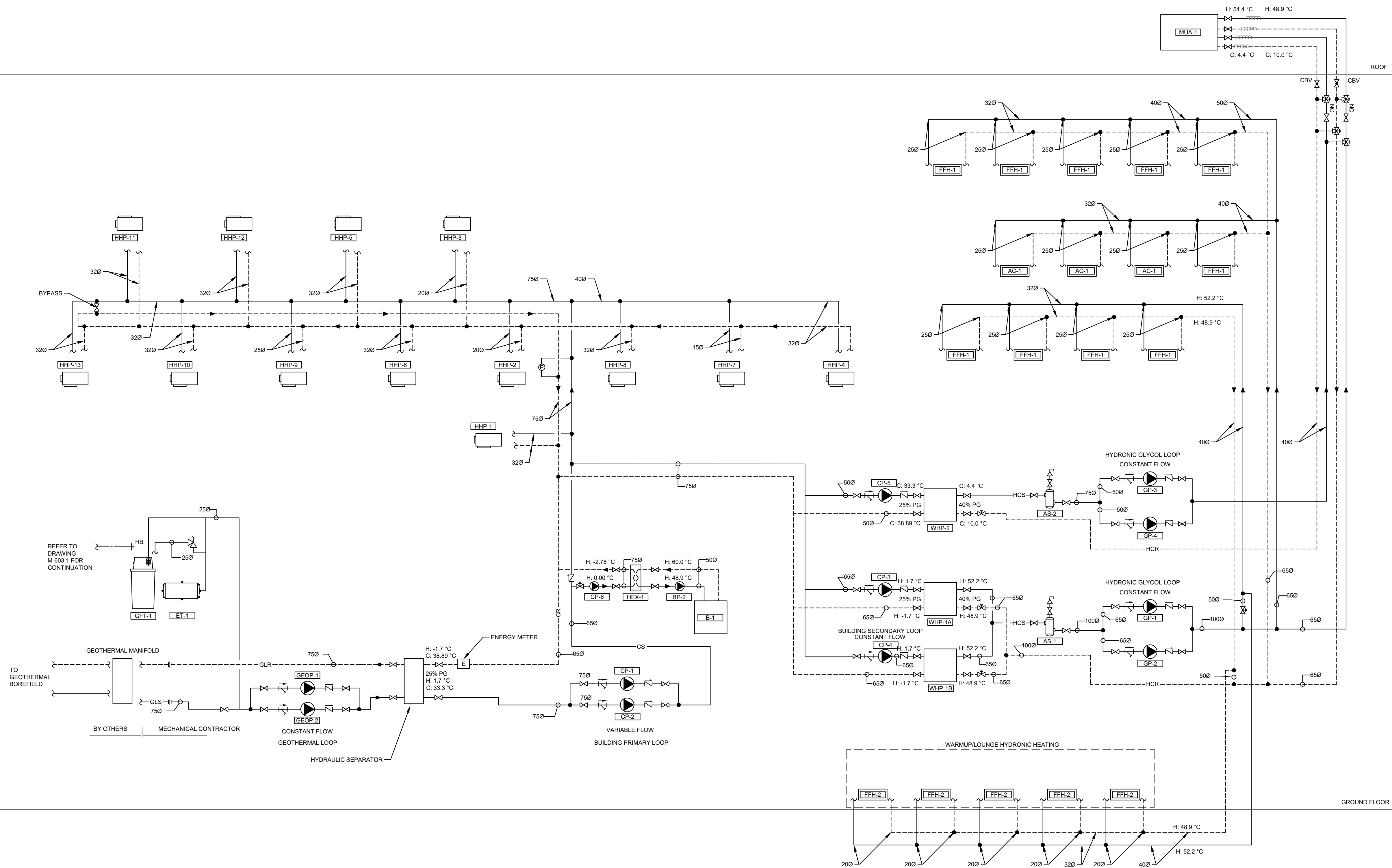
project no.: 2024-0112
scale: AS SHOWN
date:

drawing no.:

M-500.0

GENERAL NOTES:

- ERV MAKE-UP WATER LINE DRAIN AND OVERFLOW TO BE ELECTRICALLY TRACED AND INSULATED, C/W WEATHER PROOF JACKET.
- PROVIDE ISOLATION VALVES ON ALL BRANCH LINES AND AT ALL EQUIPMENT.
- PROVIDE VIBRATION ISOLATION FOR ALL ROTATING EQUIPMENT.
- CONDENSER WATER PIPING OUTDOORS TO BE ELECTRICALLY TRACED AND INSULATED, C/W WEATHER PROOF JACKET.
- EXPANSION COMPENSATION AND ANCHORING SYSTEM SHOP DRAWINGS TO BE STAMPED BY A LICENSED PROFESSIONAL ENGINEER. PROVIDE EXPANSION LOOPS AS REQUIRED IN MIDDLE OF 100 FT (OR GREATER) HYDRONIC PIPING SECTIONS.
- HEAT TRACE ALL PIPING SUBJECT TO FREEZING.
- CENTRALLY METER PLANT MECHANICAL SERVICES ON DIGITAL METERING SYSTEM (DMS) (OR BAS). REFER TO CONTROL DIAGRAMS AND SEQUENCE OF OPERATIONS FOR METERING SCOPE.



ISSUED FOR TENDER 2024-11-08
ISSUED FOR PROGRESS 2024-08-23
revision date

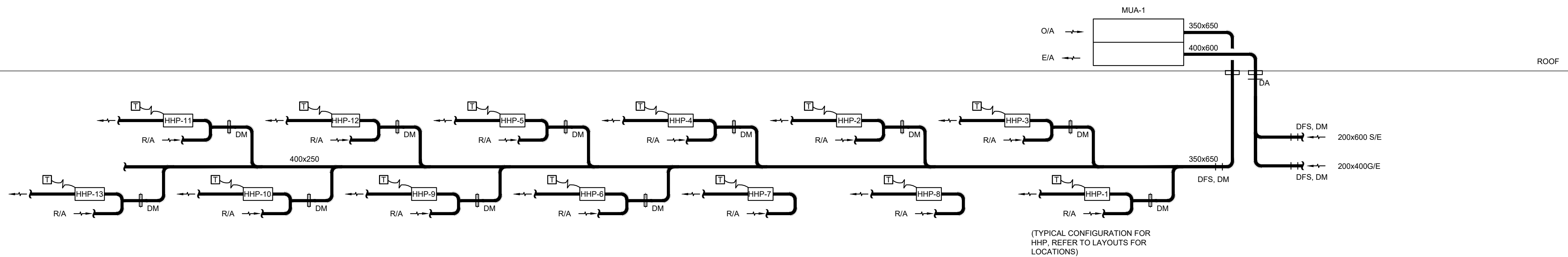
FIFA - EAST VSTS
CENTENNIAL PARK
Address: 56 Centennial Park Rd. Toronto, ON
EAST VSTS HEATING AND
COOLING SCHEMATIC - BASE
SCOPE

project no.: 2024-0112
scale: N.T.S.
date:
drawing no.:

M-600.0

GENERAL NOTES:

1. PROVIDE BALANCING DAMPERS ON ALL BRANCH DUCTS AND OUTLETS.
2. CONTRACTOR TO PROVIDE ACCESS PANELS FOR ALL DAMPERS MOUNTED WITHIN DUCT AND COORDINATE ACCESS PANELS FOR ALL DAMPERS LOCATED BEHIND WALLS/CEILINGS.
3. DYNAMIC FIRE DAMPERS SHALL BE PROVIDED WHERE DAMPERS ARE POSITIONED HORIZONTALLY OR WHERE AIRSTREAM PRESSURE COULD PREVENT GRAVITY BASED DAMPERS FROM CLOSING.



ISSUED FOR TENDER	2024-11-08
ISSUED FOR PROGRESS	2024-08-23
revision	date

FIFA - EAST VSTS
CENTENNIAL PARK

Address: 56 Centennial Park Rd. Toronto, ON

EAST VSTS HVAC SCHEMATIC
- BASE SCOPE

project no. : 2024-0112
scale : N.T.S.
date :

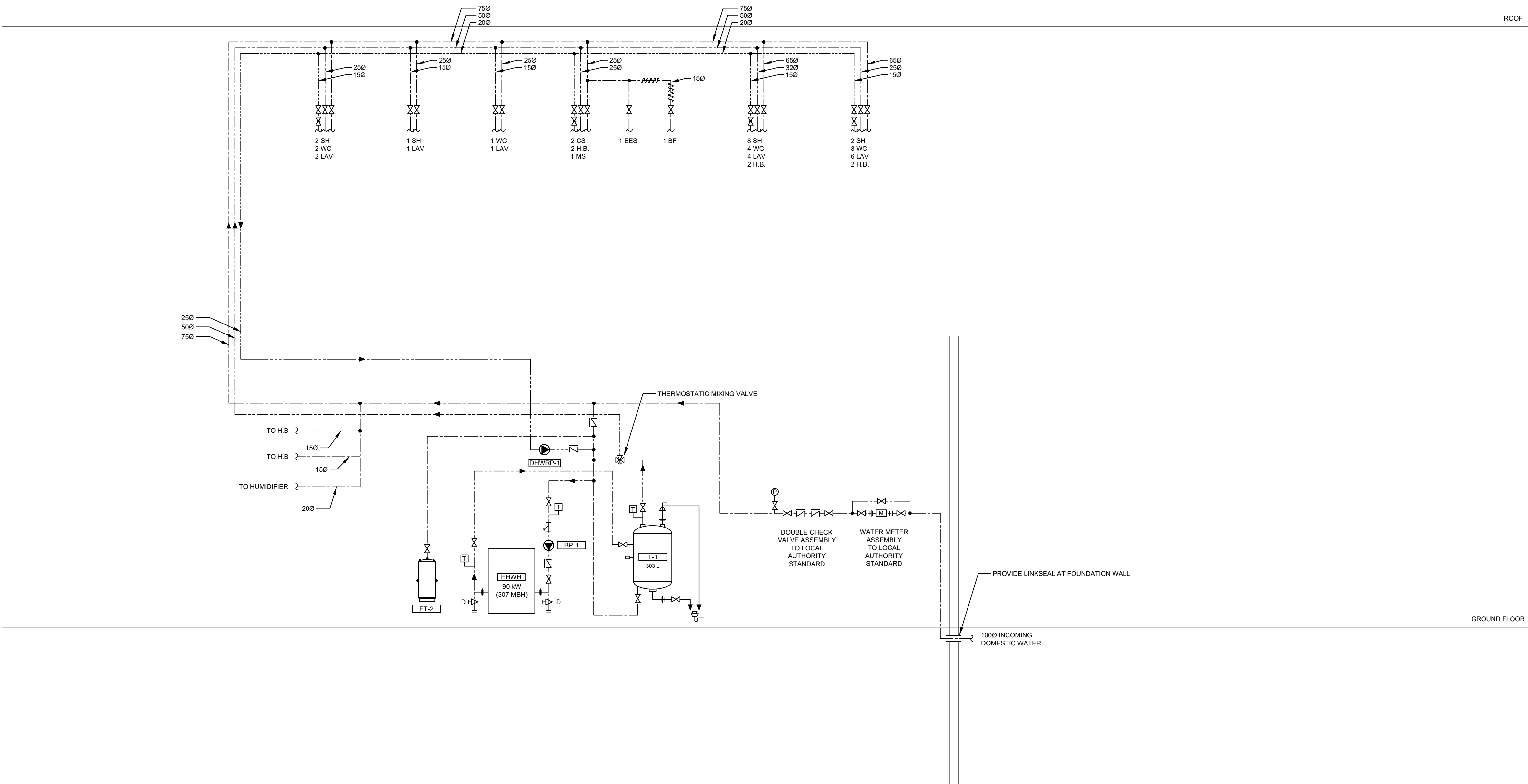
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GENERAL NOTES:

1. MAXIMUM DHW DISTRIBUTION TEMPERATURE NOT TO EXCEED 48.9°C (120°F).
2. ALL DOMESTIC HOT WATER RECIRCULATION LINES TO HAVE CIRCUIT BALANCING VALVES.
3. HEAT TRACE ALL PIPING SUBJECT TO FREEZING.
4. PROVIDE AUTOMATIC AIR VENTS THROUGHOUT THE SYSTEM AT HIGH POINTS ON DOMESTIC HOT WATER RECIRCULATION PIPING.
5. PROVIDE INDIVIDUAL TEMPERATURE MIXING VALVES FOR EVERY ELECTRONIC LAVATORY FAUCET IN ALL PUBLIC AREAS.
6. PROVIDE ELECTRONIC TRAP SEAL PRIMERS FOR ALL FLOOR DRAINS.
7. EXPANSION COMPENSATION AND ANCHORING SYSTEM SHOP DRAWINGS TO BE STAMPED BY A LICENSED PROFESSIONAL ENGINEER.
8. PROVIDE ISOLATION AND DRAIN VALVES FOR ALL DCW/DHW/DHWR RISERS.
9. PROVIDE EXPANSION LOOPS FOR HYDRONIC PIPING FOR ANY STRAIGHT LENGTH 100 FT OR GREATER.



ISSUED FOR TENDER	2024-11-08
ISSUED FOR PROGRESS	2024-08-23
revision	date

FIFA - EAST VSTS
CENTENNIAL PARK
Address: 56 Centennial Park Rd. Toronto, ON
EAST VSTS DOMESTIC WATER
GAME SCHEMATIC - BASE
SCOPE

project no. : 2024-0112
scale : N.T.S.
date :

drawing no. :

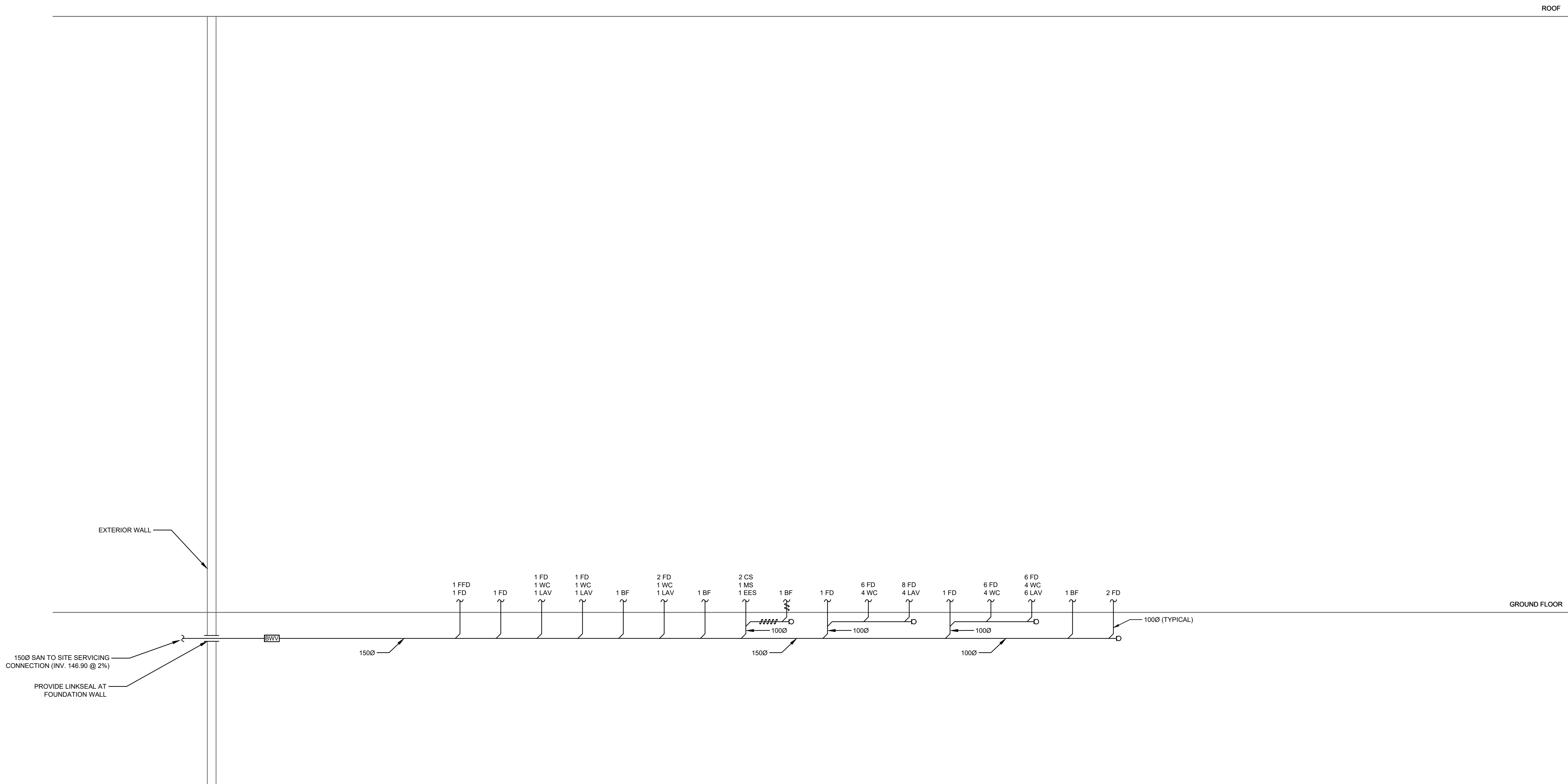
M-602.0

GENERAL NOTES:

- DRAIN PIPING SHALL BE AT MINIMUM 1% SLOPE AT ALL OFFSETS UNLESS OTHERWISE SPECIFIED.
- PROVIDE CLEANOUTS IN ACCORDANCE WITH PART 7 OF THE OBC. CLEANOUTS SHALL BE PROVIDED AT EVERY CHANGE IN DIRECTION AND AT 15M (50FT) INTERVALS ON STRAIGHT RUNS BELOW-GRADE. CLEANOUTS IN OCCUPIED SPACES SHALL BE PROVIDED WITH ACCESS PANEL IN LOCATION COORDINATED WITH THE INTERIOR DESIGN TO BE ACCESSIBLE ONCE FULLY FURNISHED.
- HEAT TRACE ALL PIPING SUBJECT TO FREEZING.
- PROVIDE ELECTRONIC TRAP SEAL PRIMERS FOR ALL FLOOR DRAIN 1" TRAPS.
- CONTRACTOR TO PROVIDE COMPLETE SANITARY VENTING SYSTEM IN ACCORDANCE WITH PART 7 OF THE OBC. ALL VENT STACKS TO TERMINATE OUTDOORS. SYSTEM SHALL BE VENTED IN SUCH A WAY AS TO MINIMIZE NUMBER OF VENTS THROUGH ROOF.

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revision	date

FIFA - EAST VSTS
CENTENNIAL PARK
Address: 56 Centennial Park Rd. Toronto, ON
EAST VSTS SANITARY GAME
SCHEMATIC - BASE SCOPE

project no. :	2024-0112
scale :	N.T.S.
date :	

drawing no. :

M-603.0

GENERAL NOTES:

1. DRAIN PIPING SHALL BE AT MINIMUM 1% SLOPE AT ALL OFFSETS UNLESS OTHERWISE SPECIFIED.
2. PROVIDE CLEANOUTS IN ACCORDANCE WITH PART 7 OF THE OBC. CLEANOUTS SHALL BE PROVIDED AT EVERY CHANGE IN DIRECTION AND AT 15M (50FT) INTERVALS ON STRAIGHT RUNS BELOW-GRADE. CLEANOUTS IN OCCUPIED SPACES SHALL BE PROVIDED WITH ACCESS PANEL IN LOCATION COORDINATED WITH THE INTERIOR DESIGN TO BE ACCESSIBLE ONCE FULLY FURNISHED.
3. HEAT TRACE ALL PIPING SUBJECT TO FREEZING.
4. CONTRACTOR TO PROVIDE COMPLETE SANITARY VENTING SYSTEM IN ACCORDANCE WITH PART 7 OF THE OBC. ALL VENT STACKS TO TERMINATE OUTDOORS. SYSTEM SHALL BE VENTED IN SUCH A WAY AS TO MINIMIZE NUMBER OF VENTS THROUGH ROOF.

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ISSUED FOR TENDER	2024-11-08
ISSUED FOR PROGRESS	2024-08-23
revision	date

FIFA - EAST VSTS
CENTENNIAL PARK

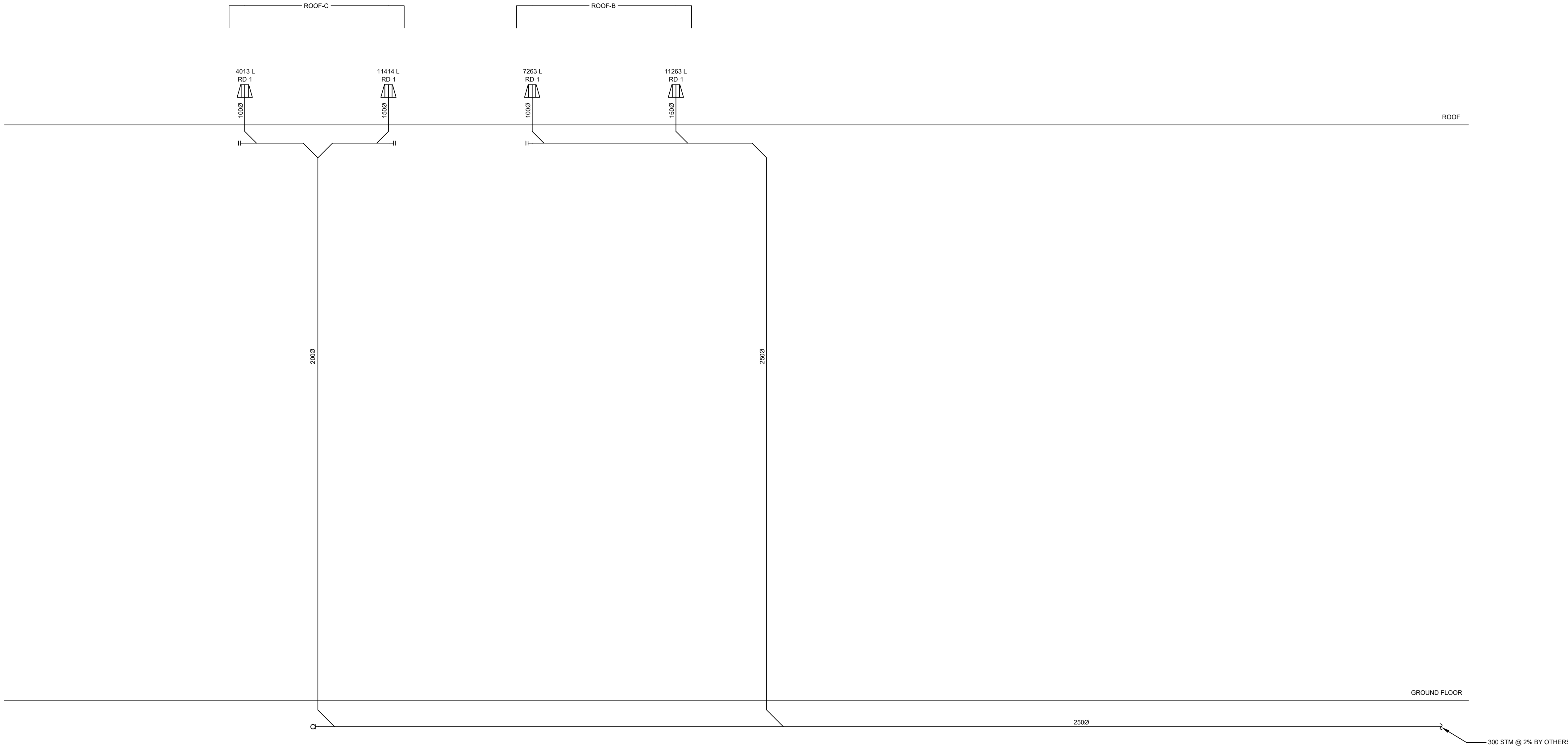
Address: 56 Centennial Park Rd. Toronto, ON

EAST VSTS STORM
SCHEMATIC - BASE SCOPE

project no. : 2024-0112
scale : N.T.S.
date :

drawing no. :

M-604.0





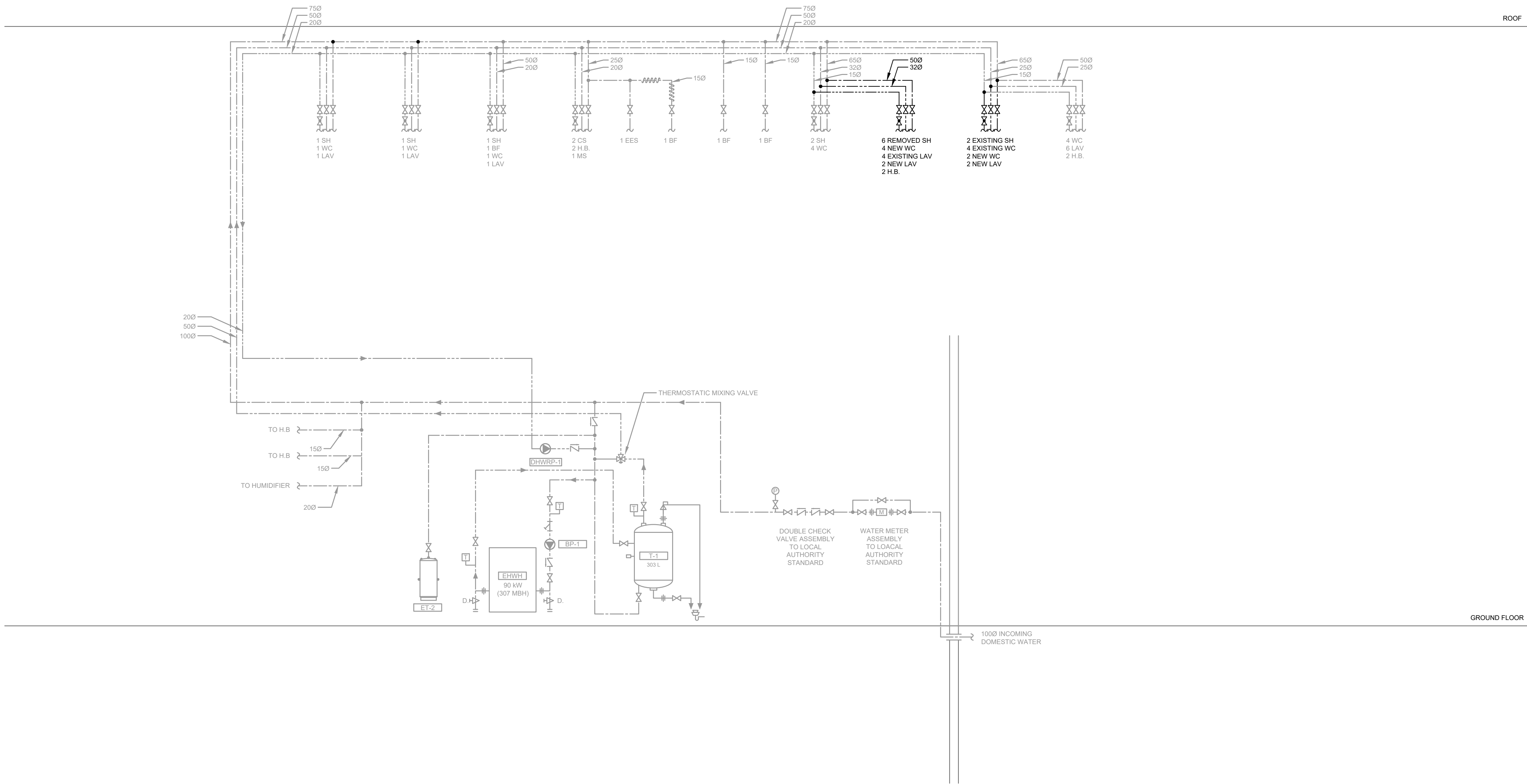
ISSUED FOR TENDER	2024-11-08
ISSUED FOR PROGRESS	2024-08-23
revision	date

FIFA - EAST VSTS
CENTENNIAL PARK
Address: 56 Centennial Park Rd. Toronto, ON
EAST VSTS DOMESTIC WATER
LEGACY SCHEMATIC - BASE
SCOPE

project no. : 2024-0112
scale : N.T.S.
date :
drawing no. :

M-605.0

- GENERAL NOTES:
1. MAXIMUM DHW DISTRIBUTION TEMPERATURE NOT TO EXCEED 48.9°C (120°F).
 2. ALL DOMESTIC HOT WATER RECIRCULATION LINES TO HAVE CIRCUIT BALANCING VALVES.
 3. HEAT TRACE ALL PIPING SUBJECT TO FREEZING.
 4. PROVIDE AUTOMATIC AIR VENTS THROUGHOUT THE SYSTEM AT HIGH POINTS ON DOMESTIC HOT WATER RECIRCULATION PIPING.
 5. PROVIDE INDIVIDUAL TEMPERATURE MIXING VALVES FOR EVERY ELECTRONIC LAVATORY FAUCET IN ALL PUBLIC AREAS.
 6. PROVIDE ELECTRONIC TRAP SEAL PRIMERS FOR ALL FLOOR DRAINS.
 7. EXPANSION COMPENSATION AND ANCHORING SYSTEM SHOP DRAWINGS TO BE STAMPED BY A LICENSED PROFESSIONAL ENGINEER.
 8. PROVIDE ISOLATION AND DRAIN VALVES FOR ALL DCW/DHW/DHWR RISERS.
 9. PROVIDE EXPANSION LOOPS FOR HYDRONIC PIPING FOR ANY STRAIGHT LENGTH 100 FT OR GREATER.

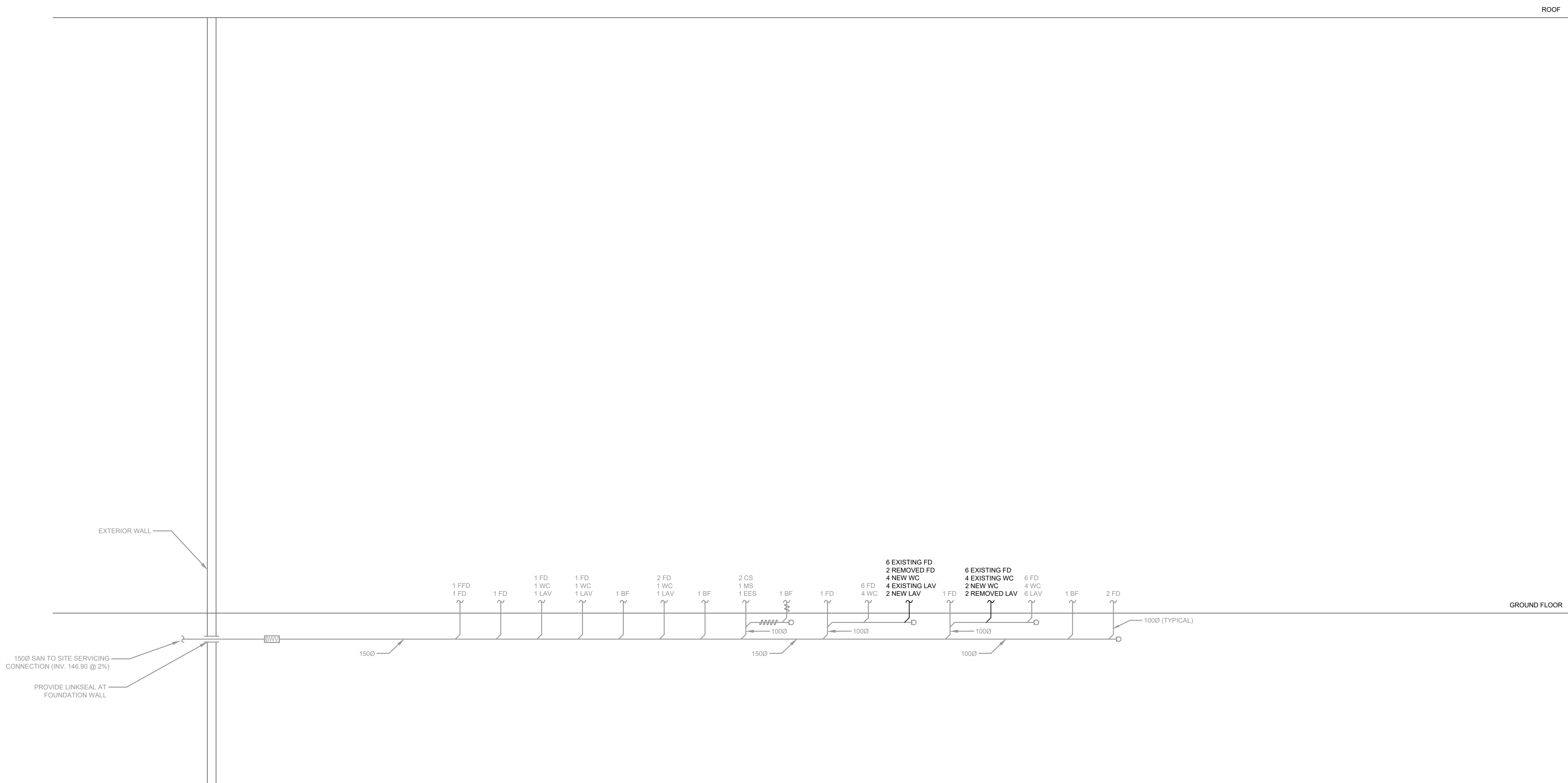


GENERAL NOTES:

- DRAIN PIPING SHALL BE AT MINIMUM 1% SLOPE AT ALL OFFSETS UNLESS OTHERWISE SPECIFIED.
- PROVIDE CLEANOUTS IN ACCORDANCE WITH PART 7 OF THE OBC. CLEANOUTS SHALL BE PROVIDED AT EVERY CHANGE IN DIRECTION AND AT 15M (50FT) INTERVALS ON STRAIGHT RUNS BELOW-GRADE. CLEANOUTS IN OCCUPIED SPACES SHALL BE PROVIDED WITH ACCESS PANEL IN LOCATION COORDINATED WITH THE INTERIOR DESIGN TO BE ACCESSIBLE ONCE FULLY FURNISHED.
- HEAT TRACE ALL PIPING SUBJECT TO FREEZING.
- PROVIDE ELECTRONIC TRAP SEAL PRIMERS FOR ALL FLOOR DRAIN 1" TRAPS.
- CONTRACTOR TO PROVIDE COMPLETE SANITARY VENTING SYSTEM IN ACCORDANCE WITH PART 7 OF THE OBC. ALL VENT STACKS TO TERMINATE OUTDOORS; SYSTEM SHALL BE VENTED IN SUCH A WAY AS TO MINIMIZE NUMBER OF VENTS THROUGH ROOF.

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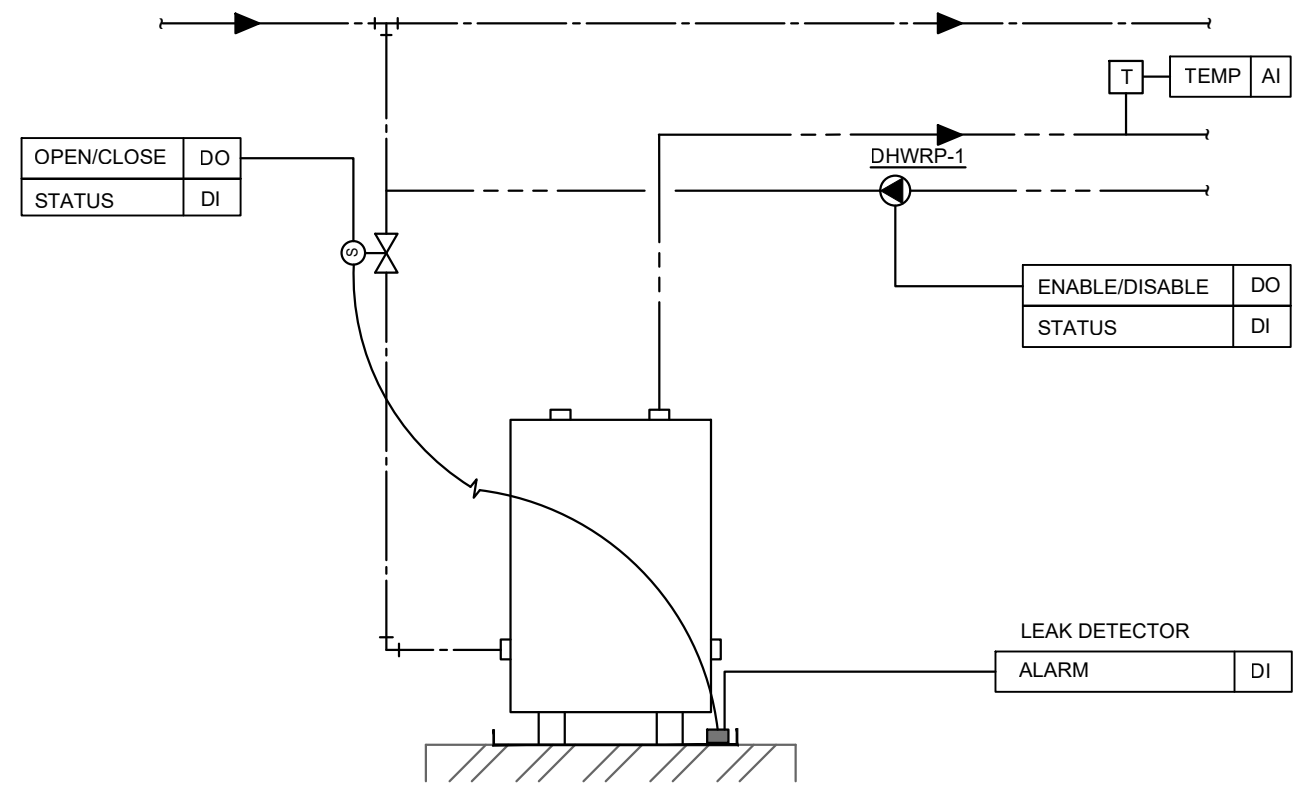
ISSUED FOR TENDER	2024-11-08
ISSUED FOR PROGRESS	2024-08-23
revision	date

FIFA - EAST VSTS
CENTENNIAL PARK
Address: 56 Centennial Park Rd. Toronto, ON
EAST VSTS SANITARY LEGACY
SCHEMATIC - BASE SCOPE

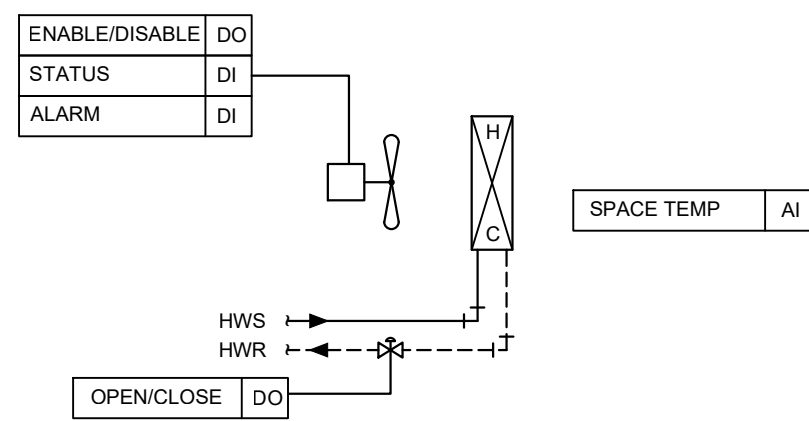
project no. :	2024-0112
scale :	N.T.S.
date :	

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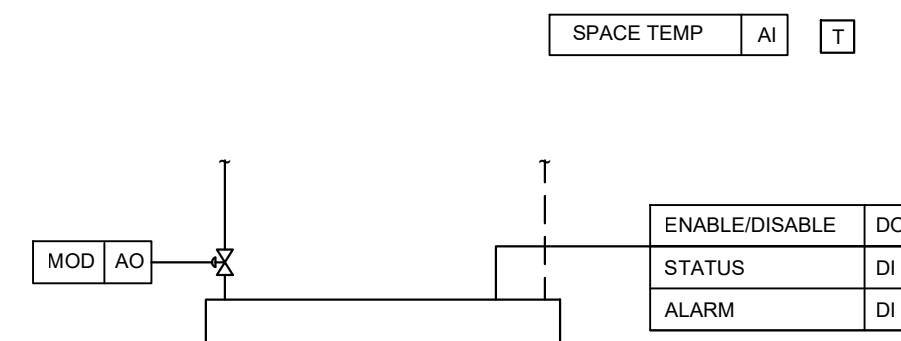
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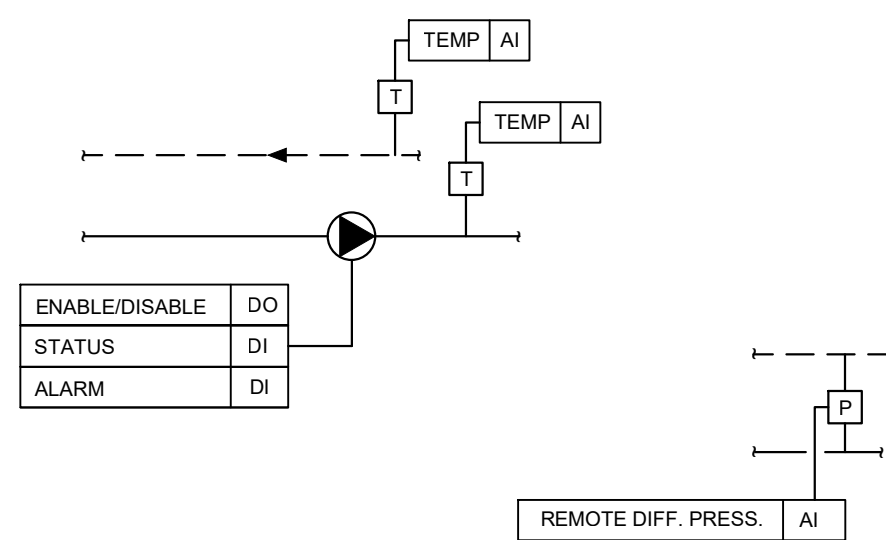
3 HWT W/ SOLENOID VALVE AND LEAK DETECTOR
M-700.0 SCALE: N.T.S.



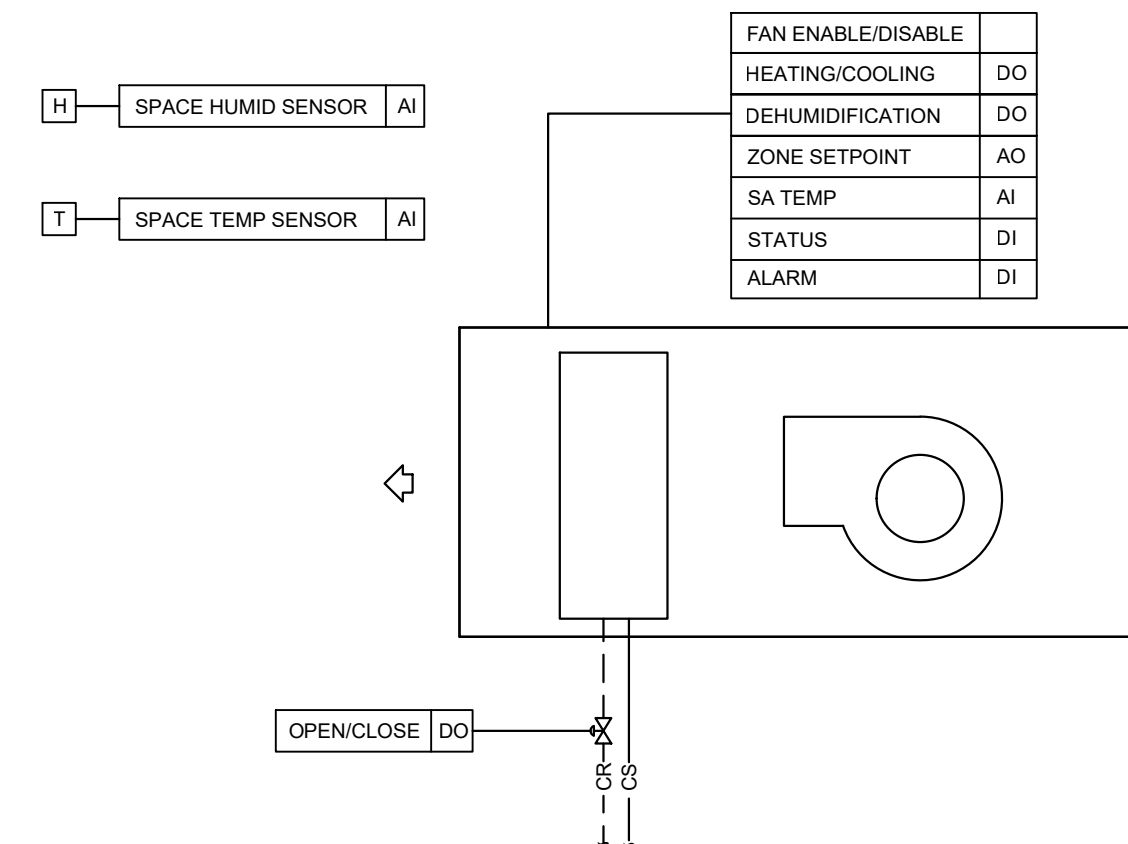
2 UNIT HEATER, FORCE FLOW HEATER
M-700.0 SCALE: N.T.S.



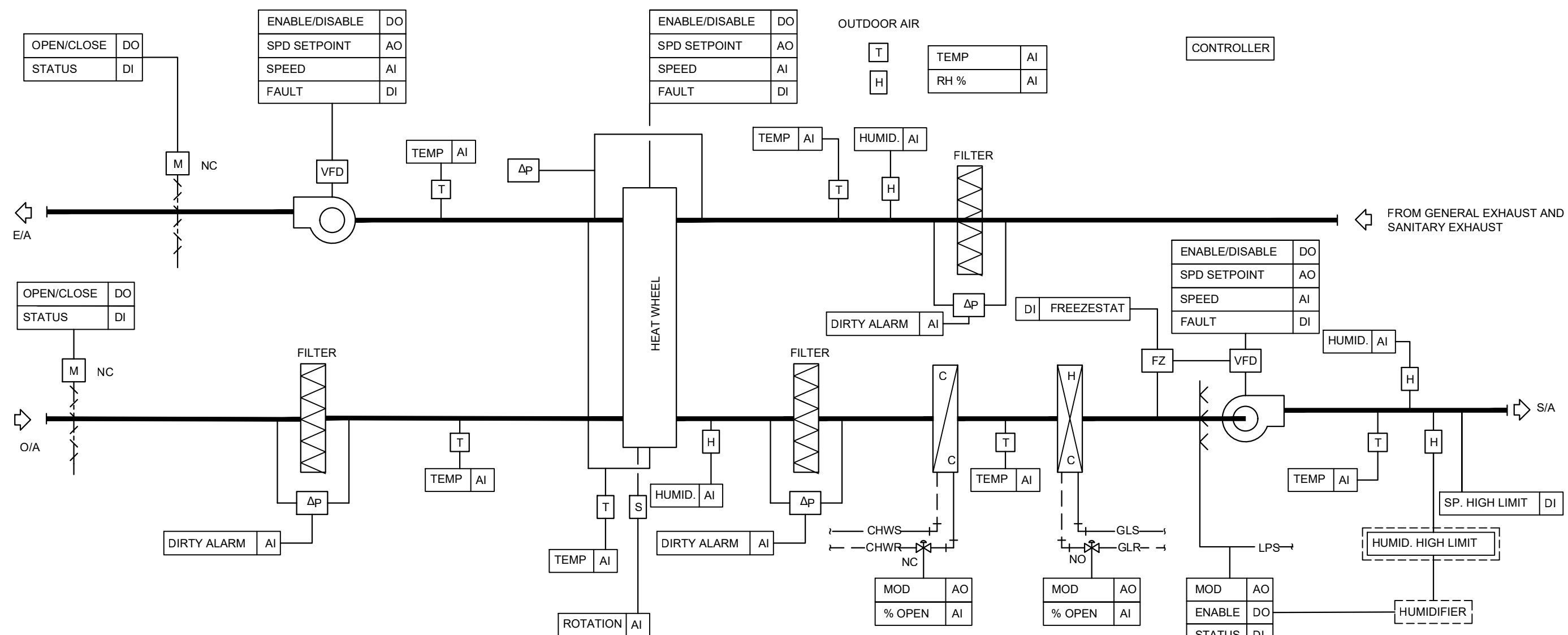
1 RADIANT PANEL HEATING
M-700.0 SCALE: N.T.S.



5 MISC HEAT CIRCULATING PUMP
M-700.0 SCALE: N.T.S.



4 HEAT PUMPS - HORIZONTAL
M-700.0 SCALE: N.T.S.



6 MAKE UP AIR UNIT
M-700.0 SCALE: N.T.S.

PUMP SCHEDULE

TAG	SERVICE	LOCATION	MANUFACTURER	MODEL NO.	PUMP SPECIFICATIONS					ELEC. (V/PH/Hz)	EMERGENCY POWER	PRESSURE RATING (kPa)	FLUID	VFD/ STARTER	WEIGHT (KG)	REMARKS
					FLOW (L/S)	HEAD (kPa)	SPEED (RPM)	MOTOR POWER (HP)	BHP (HP)							
GEOP-1/2	GEOTHERMAL GROUND LOOP	MECH ROOM	BELL & GOSSETT	1.25AAB	6.94	209.23	3,600	5.00	3.19	208-230/1/60	-	-	25% PG	VFD	32	DUTY/STANDY
CP-1/2	BUILDING PRIMARY LOOP	MECH ROOM	BELL & GOSSETT	2AAB	8.96	188.31	3,600	5.00	3.39	575/3/60	-	-	25% PG	-	39	PUMPS TO OPERATE IN PARALLEL EACH SIZED FOR 75% OF SYSTEM FLOW.
CP-3/4	HEATING WWHP SOURCE PUMPS	MECH ROOM	BELL & GOSSETT	PL-100	2.91	41.85	3,250	0.40	0.45	575/3/60	-	-	25% PG	-	7	
GP-1/2	HEATING GLYCOL LOOP	MECH ROOM	BELL & GOSSETT	1.25AAB	3.79	170.38	3,600	2.00	1.52	575/3/60	-	-	40% PG	-	-	-
BP-1	DOMESTIC HOT WATER	MECH ROOM	BELL & GOSSETT	NBF-25	0.38	44.84	2,950	-	-	115/1/60	-	-	25% PG	-	-	-
DHWRP-1	DHW RECIRCULATION	MECH ROOM	BELL & GOSSETT	PL-30B	0.32	62.77	2,650	0.08	-	115/1/60	-	-	DOMESTIC WATER	-	5	-
GP-3/4	COOLING GLYCOL LOOP	MECH ROOM	BELL & GOSSETT	PL-55	1.14	95.65	3,250	0.40	-	115/1/60	-	-	WATER	-	6	DUTY/STANDBY
CP-5	COOLING WWHP SOURCE PUMP	MECH ROOM	BELL & GOSSETT	1.5AB	2.27	67.85	1,725	0.75	0.43	575/3/60	-	-	25% PG	-	34	-
BP-2	SUPPLEMENTAL BOILER PUMP	MECH ROOM	-	-	1.51	80.70	-	-	-	-	-	-	WATER	-	-	-
CP-6	SUPPLEMENTAL BOILER LOOP	MECH ROOM	-	-	6.31	80.70	-	-	-	-	-	-	25% PG	-	-	-

NOTES:

ELECTRIC DOMESTIC WATER HEATER SCHEDULE

TAG	SERVICE	LOCATION	MANUFACTURER	MODEL NO.	CAPACITY (L)	RECOVERY RATE (L/H)	HEATER ELEMENT (kW)	WEIGHT (KG)	ELEC. (V/PH/Hz)	MCA (A)	REMARKS
EHWH	DHW	MECH ROOM	AO SMITH	DSE-65A-90	246	84,490	90	-	600/3/60	-	-

DOMESTIC STORAGE TANK SCHEDULE

TAG	SERVICE	LOCATION	MANUFACTURER	MODEL NO.	CAPACITY (L)	DIMENSIONS (MM)		REMARKS
						DIAMETER	LENGTH	
T-1	DHW	MECH ROOM	AO SMITH	TJ-80A	303	673	1,397	-

MAKE-UP (VENTILATION) AIR UNIT SCHEDULE

TAG	SERVICE	LOCATION	MANUFACTURER	MODEL No.	SUPPLY FAN							EXHAUST FAN							HEATING COIL PERFORMANCE										COOLING COIL PERFORMANCE									
					AIR FLOW (L/S)	ESP (Pa)	SPEED (RPM)	MOTOR POWER (HP)	BHP (HP)	ELEC. (V/PH/Hz)	VFD/ STARTER	AIR FLOW (L/S)	ESP (Pa)	SPEED (RPM)	MOTOR POWER (HP)	BHP (HP)	ELEC. (V/PH/Hz)	VFD/ STARTER	HEATING CAPACITY (kW)	AIR SIDE				WATER SIDE				HEATING CAPACITY (kW)	AIR SIDE				WATER SIDE					
																				AIR FLOW (L/S)	EAT DB (°C)	LAT DB (°C)	PRESSURE DROP (PA)	EWI (°C)	LWT (°C)	FLOW RATE (L/S)	PRESS DROP (kPa)		AIR FLOW (L/S)	EAT DB (°C)	LAT DB (°C)	PRESSURE DROP (PA)	EWI (°C)	LWT (°C)	FLOW RATE (L/S)	PRESS DROP (kPa)		
MUA-1	BUILDING OA	ROOF	SWEGON	AD-10001912372	1,274	394	1,614	5	2	600/3/60	-	1,274	394	1,614	5	2	600/3/60	-	22	1,274	-22	-	7	53	49	2	31	7	1,274	31	25	26	20	10	6	12		
ENERGY RECOVERY PERFORMANCE																														FILTERS	WEIGHT (KG)	FULL CURRENT LOAD (A)	EMERGENCY OR NORMAL POWER	REMARKS				
WINTER								SUMMER																														
OA TEMP. DB (°C)	OA TEMP. WB (°C)	EA TEMP. DB (°C)	EA TEMP. WB (°C)	SENSIBLE EFFICIENCY (%)	LATENT EFFICIENCY (%)	SA TEMP. DB (°C)	SA TEMP. WB (°C)	OA TEMP. DB (°C)	OA TEMP. WB (°C)	EA TEMP. DB (°C)	EA TEMP. WB (°C)	SENSIBLE EFFICIENCY (%)	LATENT EFFICIENCY (%)	SA TEMP. DB (°C)	SA TEMP. WB (°C)	63	125	250	500	1000	2000	4000	8000	63	125	250	500	1000	2000						4000	8000		
-22	-17	22	-	80	78	13	-	31	-	24	-	75	61	26	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	858	9	-	-		

EXPANSION TANK SCHEDULE

TAG	SERVICE	LOCATION	MANUFACTURER	MODEL No.	SYSTEM	ACCEPTANCE VOLUME (L)	MIN. TEMPERATURE (C)	MAX. TEMPERATURE (C)	FILL PRESSURE (kPa)	FLUID	DIMENSIONS (MM)		PRESSURE RATING (kPa)	WEIGHT (KG)
ET-1	GEO LOOP	MECH ROOM	AMTROL	AX-120	-	129	-	116	862	25% PG	610	1,041	-	-
ET-2	DOMESTIC LOOP	MECH ROOM	-	-	-	-	-18	116	-	-	-	-	-	-
NOTES:														

HYDRAULIC SEPARATOR SCHEDULE

TAG	SERVICE	LOCATION	MANUFACTURER	MODEL No.	FLUID	FLOW (L/S)	PRESS. DROP (kPa)	FLOODED VOLUME (M³)	PRESSURE RATING (kPa)	WEIGHT (KG)	REMARKS
HS	GEO LOOP (COOLING)	MECH ROOM	CALEFFI	SEP4 NA549082AM	25% PG	7.20	-	-	1724	50	-
NOTES:											

DIFFUSER & GRILLE SCHEDULE

TAG	UNIT				DAMPER		MATERIAL	FINISH	REMARKS
	MANUFACTURER	MODEL No.	APPLICATION	DUTY	PART OF UNIT	REMO TE IN DUCT			
A	PRICE	SPD	SUPPLY	SUPPLY	-	YES	-	-	-
B	PRICE	SDS100	LINEAR SLOT DIFFUSER	SUPPLY	-	YES	-	-	1" SLOT, 2 SLOTS
C	PRICE	SDR100	LOUVRED RETURN	EXHAUST	-	YES	-	-	-
D	PRICE	500	SUPPLY/RETURN	SUPPLY/RE TURN	YES	-	-	-	C/W BALANCING DAMPER
E	PRICE	SDS150	LINEAR SLOT DIFFUSER	SUPPLY	-	YES	-	-	1.5" SLOT, 4 SLOTS
F	PRICE	SDR100	LINEAR SLOT RETURN	RETURN	-	YES	-	-	1" SLOT, 2 SLOTS
G	PRICE	SDR150	LINEAR SLOT RETURN	RETURN	-	YES	-	-	1.5" SLOT, 4 SLOTS
H	PRICE	SDR100	LINEAR SLOT RETURN	RETURN	-	YES	-	-	1" SLOT, 2 SLOTS
NOTES:									



WATER TO WATER HEAT PUMP SCHEDULE

TAG	SERVICE	LOCATION	MANU-FACTURER	MODEL No.	HEAT PUMP PERFORMANCE (AT FULL LOAD COOLING)											HEAT PUMP PERFORMANCE (AT FULL LOAD HEATING)											MCA (A)	MOP (A)	ELEC (V/PH/ HZ)	TOTAL SHIPPING WEIGHT (KG)	TOTAL OPERATING WEIGHT (KG)	NORMAL OR EMERGENCY POWER	REMARKS				
					TOTAL COOLING CAPACITY (kW)	COP	POWER INPUT (kW)	PRIMARY SIDE					SECONDARY SIDE					TOTAL COOLING CAPACITY (kW)	COP	POWER INPUT (kW)	PRIMARY SIDE					SECONDARY SIDE											
								EWT (°C)	LWT (°C)	FLOW RATE (L/s)	PRESSURE DROP (kPa)	FLUID	EWT (°C)	LWT (°C)	FLOW RATE (L/s)	PRESSURE DROP (kPa)	FLUID				EWT (°C)	LWT (°C)	FLOW RATE (L/s)	PRESSURE DROP (kPa)	FLUID	EWT (°C)								LWT (°C)	FLOW RATE (L/s)	PRESSURE DROP (kPa)	FLUID
WHP-1A/B	MUA-1 HEATING	MECH ROOM	WATER FURNACE	T1RM020SN25 AAAHN	-	-	-	-	-	-	-	-	-	-	-	54.84	2.40	22.50	1.67	-0.44	3.79	28.96	25% PG	48.89	52.30	3.79	23	40% PG	33	-	575/3/60	1,158	2,873	NORMAL	QTY: 2		
WHP-2	MUA-1 COOLING	MECH ROOM	WATER FURNACE	NSW075R50AC CSSG	32.21	13	8.60	-17.78	-17.78	1.77	34	25% PG	-17.78	-17.78	2.27	33	WATER	-	-	-	-	-	-	-	-	-	-	-	10	-	575/3/60	179	400	NORMAL	-		

HEAT PUMP SCHEDULE

TAG	SERVICE	LOCATION	MANUFACTURER	MODEL No.	FLUID	WATER FLOW (L/S)	COOLING COIL PERFORMANCE									HEATING COIL PERFORMANCE							FAN PERFORMANCE				ELEC (V/PH/HZ)	MCA (A)	VFD/ STARTER	WEIGHT (KG)	REMARKS
							FLUID PRESSURE DROP (Pa)	EWT (°C)	LWT (°C)	EAT (DB) (°C)	EAT (WB) (°C)	LAT (DB) (°C)	LAT (WB) (°C)	SENSIBLE COOLING CAPACITY (KW)	TOTAL COOLING CAPACITY (KW)	FLUID PRESSURE DROP (Pa)	EWT (°C)	LWT (°C)	EAT (DB) (°C)	EAT (WB) (°C)	HEATING CAPACITY (kW)	AIR FLOW (L/S)	ESP (Pa)	SPEED (RPM)	MOTOR POWER (HP)						
HHP-1	STORAGE/MECHANICAL	CEILING SPACE	DAIKIN	WSCH036	25% PG	0.57	41,638	33.33	38.44	23.89	17.22	14.33	12.06	6.33	9.02	3,931	1.67	-0.67	21.11	33.11	7.95	547	130	-	0.50	208-230/1/60	25	-	99	-	
HHP-2	WORKFORCE OFFICE	CEILING SPACE	DAIKIN	WSCH012	25% PG	0.19	18,174	33.33	38.44	23.89	17.22	14.33	12.06	1.97	3.12	1,716	1.67	-0.67	21.11	33.11	3.10	146	77	-	0.10	208-230/1/60	8	-	47	-	
HHP-3	COACHES ROOM	CEILING SPACE	DAIKIN	WSCH012	25% PG	0.19	18,174	33.33	38.44	23.89	17.22	14.33	12.06	1.97	3.12	1,716	1.67	-0.67	21.11	33.11	3.10	146	77	-	0.10	208-230/1/60	8	-	47	-	
HHP-4	WARMUP LOUNGE	CEILING SPACE	DAIKIN	WSCH036	25% PG	0.57	41,638	33.33	38.44	23.89	17.22	14.33	12.06	6.22	8.97	3,931	1.67	-0.67	21.11	33.11	7.91	236	80	-	0.50	208-230/1/60	25	-	99	-	
HHP-5	WARMUP LOUNGE	CEILING SPACE	DAIKIN	WSCH036	25% PG	0.57	41,638	33.33	38.44	23.89	17.22	14.33	12.06	6.22	8.97	3,931	1.67	-0.67	21.11	33.11	7.91	531	80	-	0.50	208-230/1/60	25	-	99	-	
HHP-6	MEETING ROOM	CEILING SPACE	DAIKIN	WSCH036	25% PG	0.57	41,638	33.33	38.44	23.89	17.22	14.33	12.06	6.22	8.97	3,931	1.67	-0.67	21.11	33.11	7.91	236	80	-	0.50	208-230/1/60	25	-	99	-	
HHP-7	IT	CEILING SPACE	DAIKIN	WSCH007	25% PG	0.09	6,157	33.33	38.44	23.89	17.22	14.33	12.06	1.36	1.36	583	1.67	-0.67	21.11	33.11	1.59	124	125	-	0.10	208-230/1/60	4	-	45	-	
HHP-8	ELECTRICAL	CEILING SPACE	DAIKIN	WSCH019	25% PG	0.28	30,638	33.33	38.44	23.89	17.22	14.33	12.06	4.45	4.82	2,899	1.67	-0.67	21.11	33.11	4.06	283	199	-	0.30	208-230/1/60	12	-	68	-	
HHP-9	CAFÉ	CEILING SPACE	DAIKIN	WSCH019	25% PG	0.28	30,429	33.33	38.44	23.89	17.22	14.33	12.06	3.14	4.73	2,874	1.67	-0.67	21.11	33.11	4.20	264	125	-	0.30	208-230/1/60	12	-	83	-	
HHP-10	RECOVERY ROOM	CEILING SPACE	DAIKIN	WSCH036	25% PG	0.57	42,624	33.33	38.44	23.89	17.22	14.33	12.06	5.80	9.37	4,018	1.67	-0.67	21.11	33.11	7.34	486	82	-	0.50	208-230/1/60	25	-	83	-	
HHP-11	MASSAGE ROOM	CEILING SPACE	DAIKIN	WSCH036	25% PG	0.57	42,624	33.33	38.44	23.89	17.22	14.33	12.06	5.80	9.37	4,018	1.67	-0.67	21.11	33.11	7.34	486	82	-	0.50	208-230/1/60	25	-	83	-	
HHP-12	DRESSING ROOM A	CEILING SPACE	DAIKIN	WSCH030	25% PG	0.47	81,661	33.33	38.44	23.89	17.22	14.33	12.06	5.45	7.30	7,714	1.67	-0.67	21.11	33.11	6.41	472	82	-	0.30	208-230/1/60	17	-	83	-	
HHP-13	MASSAGE ROOM	CEILING SPACE	DAIKIN	WSCH036	25% PG	0.57	42,624	33.33	38.44	23.89	17.22	14.33	12.06	5.80	9.37	4,018	1.67	-0.67	21.11	33.11	7.34	486	82	-	0.50	208-230/1/60	25	-	83	-	
HHP-14	CORRIDOR	CEILING SPACE	DAIKIN	WSCH030	25% PG	0.47	81,661	33.33	38.44	23.89	17.22	14.33	12.06	5.45	7.30	7,714	1.67	-0.67	21.11	33.11	6.41	472	82	-	0.30	208-230/1/60	17	-	83	-	
HHP-15	HALL	CEILING SPACE	DAIKIN	WSCH048	25% PG	0.76	36,616	33.33	38.44	23.89	17.22	14.33	12.06	8.84	12.34	3,460	1.67	-0.67	21.11	33.11	11.28	708	77	-	0.75	208-230/1/60	31	-	134	-	
NOTES:																															

SILENCER SCHEDULE

	SYSTEM	LOCATION	MANUFACTURER	MODEL No.	AIR FLOW (L/S)	AIR VELOCITY (M/S)	PRESS. DROP (Pa)	MODULE SIZE (MM)			QTY OF PIECES	DYNAMIC INSERTION LOSS (dB) [AIRFLOW GENERATED NOISE (dB)]								REMARKS
								W	H	L		63 Hz	125 Hz	250 Hz	500 Hz	1K Hz	2K Hz	4K Hz	8K Hz	
SL-1	MUA-1 SUPPLY	ROOF	KNC		1300	5.88		600	350		1									
SL-2	MUA-1 RETURN	ROOF	KNC		1300	5.24		600	400		1									

NOTES: 1. CONTRACTOR/SILENCER MANUFACTURER SHALL PROVIDE ACOUSTICAL ANALYSIS WITH PENG STAMP SHOWING SILENCER MEETS INSERTION LOSSES AND NC LEVEL AS SCHEDULED DURING SUBMITTAL REVIEW.
2. CONTRACTOR/SILENCER MANUFACTURER MUST PROVIDE PRESSURE DROP CALCULATIONS WITH PENG STAMP TO DEMONSTRATE THE PRESSURE DROP INCLUDING SYSTEM EFFECT AS SCHEDULED.
3. ALTERNATIVE SILENCER MANUFACTURER MUST PROVIDE SILENCER INTERNAL GEOMETRY FOR ENGINEER'S APPROVAL DURING SUBMITTAL REVIEW.
4. FOR NON-BASIS OF DESIGN PRODUCT SUPPLIES, CONTRACTOR TOR IS FINANCIALLY RESPONSIBLE TO ENSURE NOISE CONTROL SOLUTION IS DELIVERED AS PER NC LEVELS IN SPACES OR DBA NOTES:

ELECTRIC HUMIDIFIER SCHEDULE

TAG	LOCATION	TYPE (ELECTRODE, RESISTIVE ELEMENT)	MANUFACTURER	MODEL No.	NOMINAL STEAM CAPACITY (KG/HR)	SUPPLY WATER CONNECTION SIZE (MM)	ELEC. (V/PH/Hz)	MCA (A)	MOUNTING ARRANGEMENT	WEIGHT (KG)	ABSORPTION DISTANCE (MM)	REMARKS
EHUM	MECH ROOM	RESISTIVE ELEMENT	STEAM OVAP	IER09	53	19	600/3/60	-	WALL MOUNTED	34	-	-

NOTES:



AIR CURTAIN SCHEDULE

	SERVICE	MANUFACTURER	MODEL No.	ARRANGEMENT	DIMENSIONS (L X W X H) (MM)	AIR FLOW (L/S)	EWI (°C)	LWI (°C)	EAT (°C)	WPD (kPa)	HEATING CAPACITY (kW)	WATER FLOW (L/s)	MOTOR (kW)	ELEC. (V/PH/Hz)	MCA (A)	REMARKS
AC-1	OVERHEAD DOORS	BERNER	ARD12-3144W	HORIZONTAL DOWN DISCHARGE	3556 X 381 X 660	1783	52	41	65	0.30	13.72	0.32	3 @ 0.5	208/1/60		-

RADIANT CEILING PANEL SCHEDULE

	SERVICE	MANUFACTURER	HEATER TYPE	LENGTH (MM)	HEATING CAPACITY (kW)	EWI (°C)	LWI (°C)	REMARKS
RP-1	WASHROOM	SIGMA	BOTTOM RETURN CEILING MOUNTED RADIANT PANEL	REFER TO FLOORPLAN	REFER TO FLOORPLAN	52	48.89	9000mm WIDTH, 10 TUBE PASSES

HYDRONIC FORCE FLOW HEATER SCHEDULE

	SERVICE	MANUFACTURER	MODEL No.	ARRANGEMENT	DIMENSIONS (L X W X H) (MM)	AIR FLOW (L/S)	EWI (°C)	LWI (°C)	EAT (°C)	WPD (kPa)	HEATING CAPACITY (kW)	WATER FLOW (L/s)	MOTOR (W)	ELEC. (V/PH/Hz)	MCA (A)	REMARKS
FFH-1	EXIT VESTIBULE HEATING	JAGA	BRIZA-22	FAN COIL, CEILING MOUNTED CABINET	950 X 625 X 270		52	48.89	18.0		5	0.38		115/1/60	2	-
FFH-2	WARMUP LOUNGE HEATING	JAGA	SLCM02014411/BNA	CURB MOUNTED	1440 X 180 X 200	59	52	48.89	18.3	61.6	2.26	0.16	8.60	120/1/60		1440 MM CABINET WITH STANDARD INTERNAL COMPONENT
FFH-3	WARMUP LOUNGE HEATING	JAGA	SLCM02010811/BNA	CURB MOUNTED	2160 X 180 X 200	130	52	48.89	18.3	143.4	3.10	0.22	12	120/1/60		2 x 1080 MM CABINETS WITH 1800 MM INTERNAL SECTION
FFH-4	WARMUP LOUNGE HEATING	JAGA	SLCM02010811/BNA	CURB MOUNTED	2880 X 180 X 200	130	52	48.89	18.3	143.4	3.10	0.22	12	120/1/60		2 x 1440 MM CABINETS WITH 1800 MM INTERNAL SECTION

ELECTRIC HEATING BOILER SCHEDULE

	SERVICE	MANUFACTURER	MODEL No.	INPUT (kW)	MIN FLOW RATE (L/s)	MAX FLOW RATE (L/s)	MAX PRESSURE DROP (kPa)	EWI (°C)	LWI (°C)	WEIGHT (KG))	ELEC. (V/PH/Hz)	MCA (A)	MOP (A)	EFF. (%)	REMARKS
B-1	SUPPLEMENTAL HEAT	LOCHINVAR	KEB0075	75	0.39	6.620000	1			-	115/1/60	2	2		-

HEAT EXCHANGER SCHEDULE

TAG	SERVICE	LOCATION	TYPE (SHELL & TUBE OR PLATE & FRAME)	MANU-FACTURER	MODEL No.	MINIMUMHEAT TRANSFER(kW)	POWER INPUT (kW)	SOURCE SIDE					LOAD SIDE					MINIMUM PRESSURE RATING (KPA)	WEIGHT (KG)	REMARKS
								EWI (°C)	LWI (°C)	FLOW RATE (L/s)	PRESSURE DROP (kPa)	FLUID	EWI (°C)	LWI (°C)	FLOW RATE (L/s)	PRESSURE DROP (kPa)	FLUID			
HEX-1	SUPPLEMENTAL BOILER	MECH ROOM			-	-	-	-	-	-	-	-	-	-	-	-	-			

NOTES:



ISSUED FOR TENDER	2024-11-08
ISSUED FOR PROGRESS	2024-08-23
revision	date

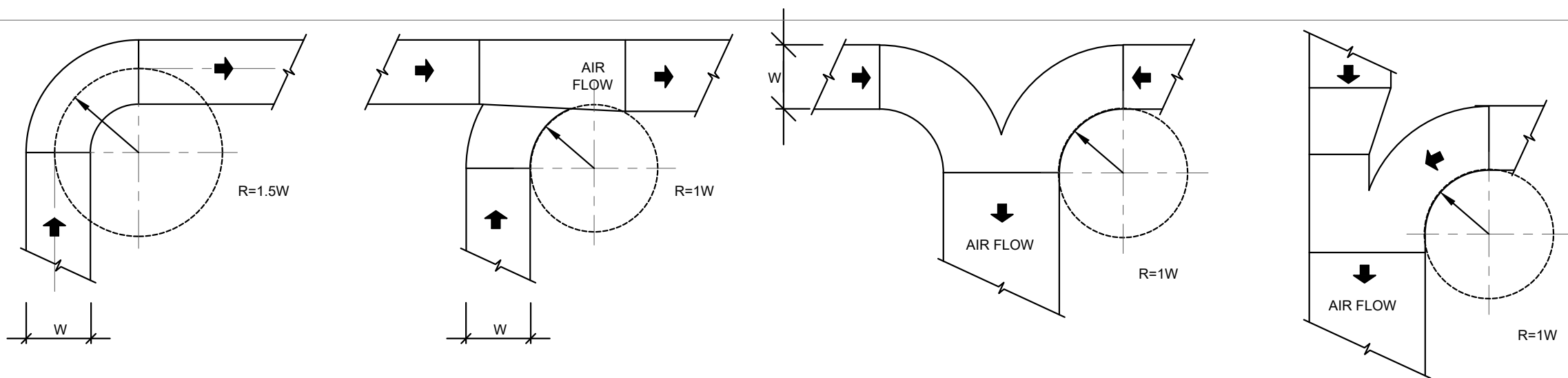
FIFA - EAST VSTS
CENTENNIAL PARK
Address: 56 Centennial Park Rd. Toronto, ON

MECHANICAL SCHEDULES III -
BASE SCOPE

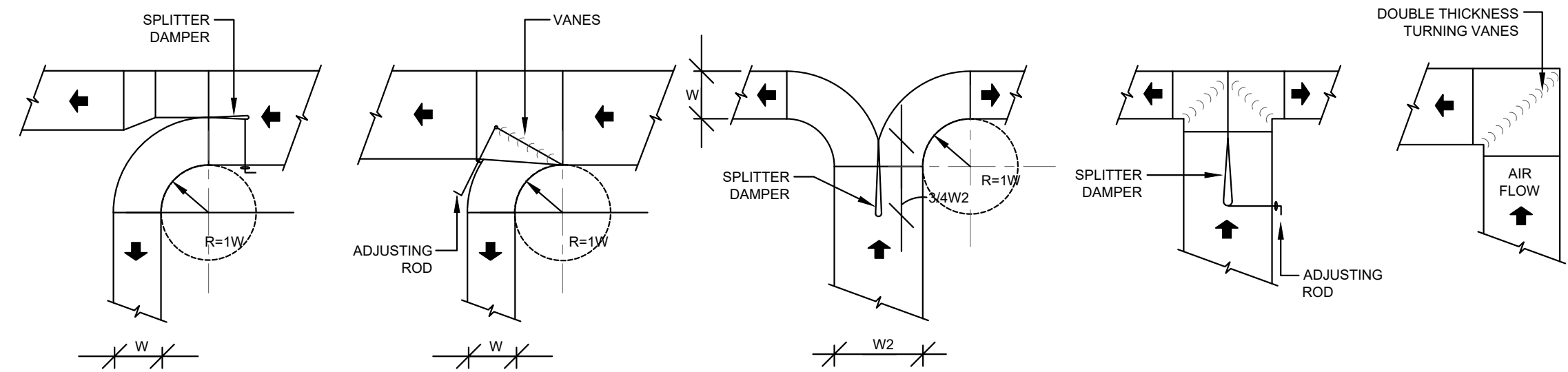
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scale :	N.T.S.
date :	

drawing no. :

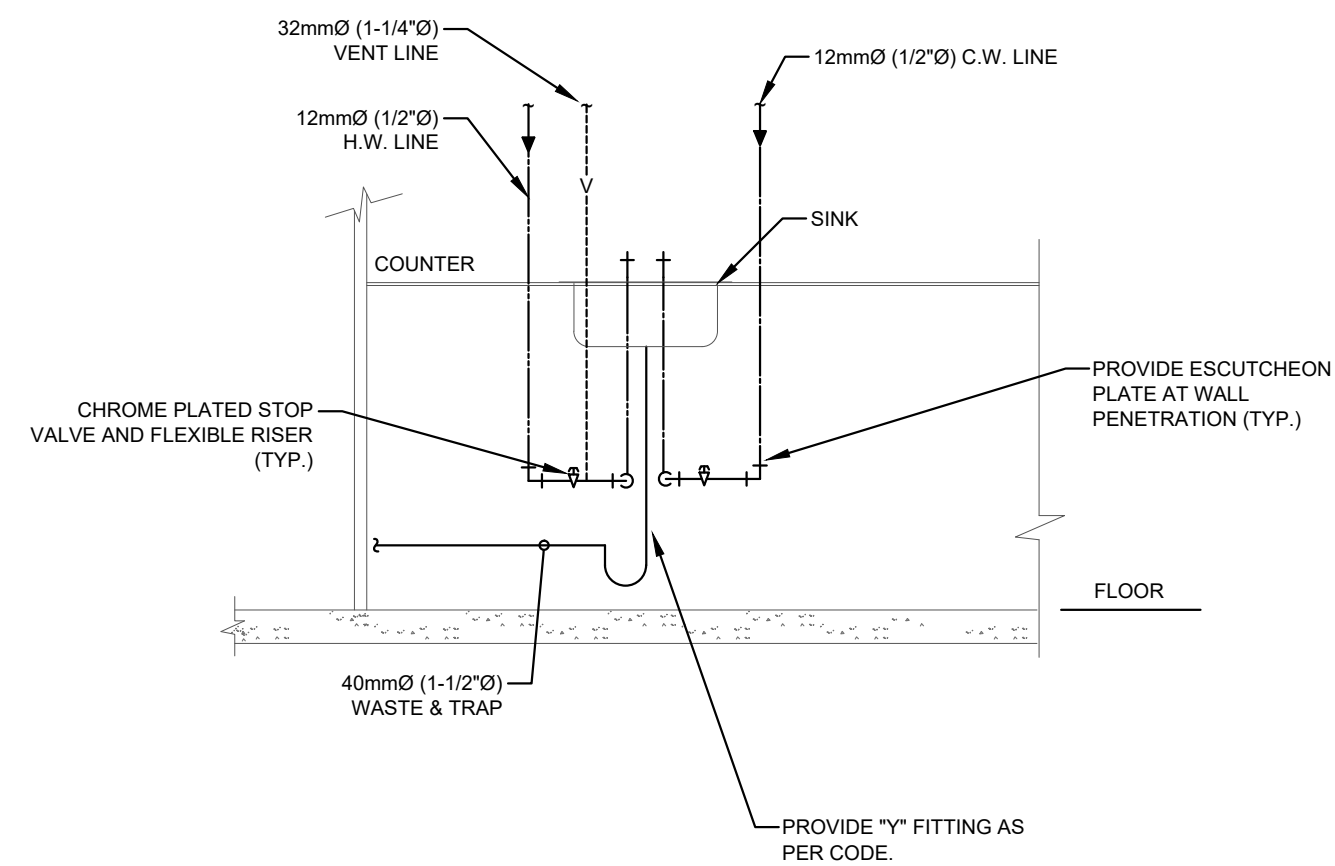
M-802.0



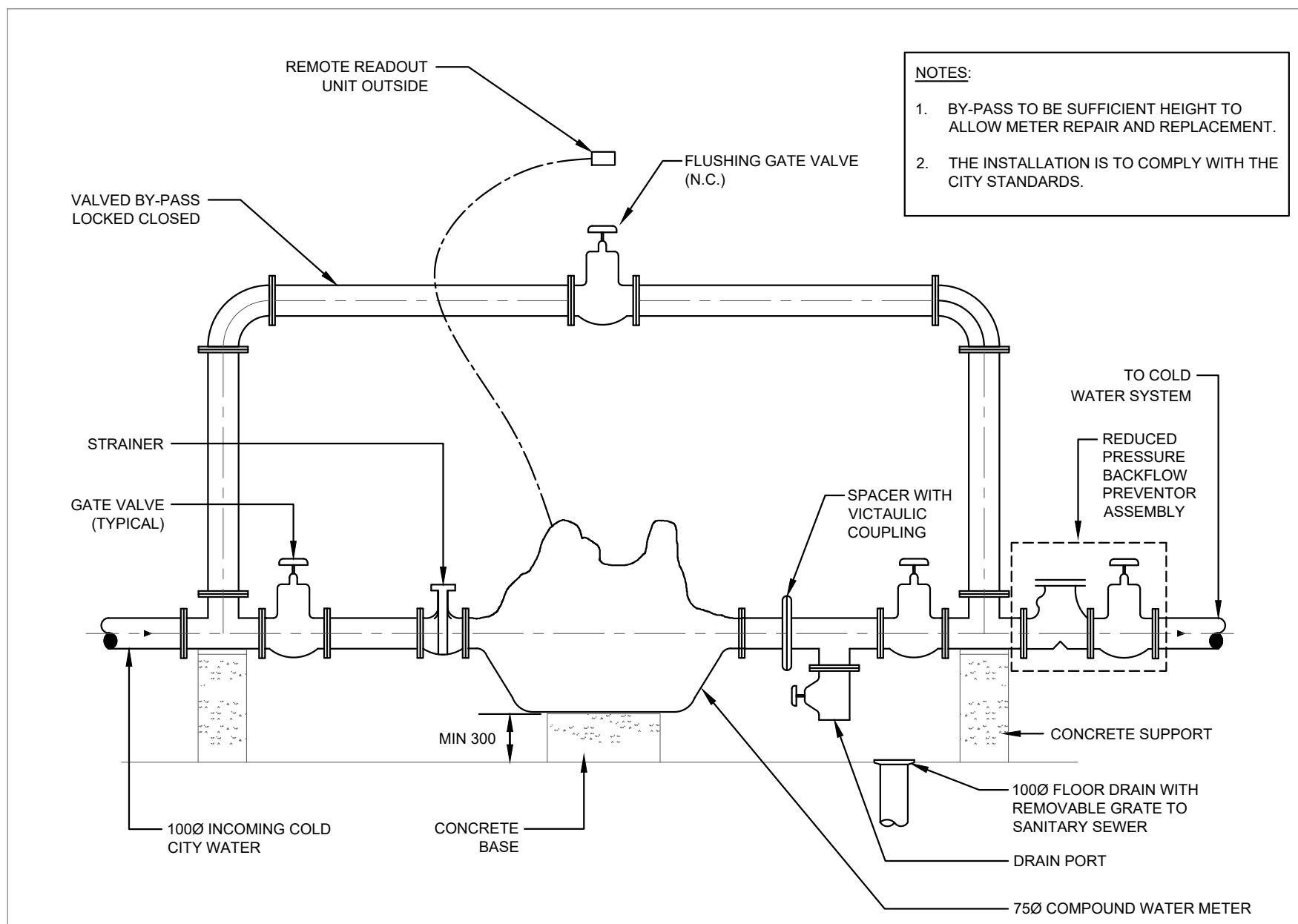
TYPICAL EXHAUST AIR & RETURN AIR DUCT BRANCHES



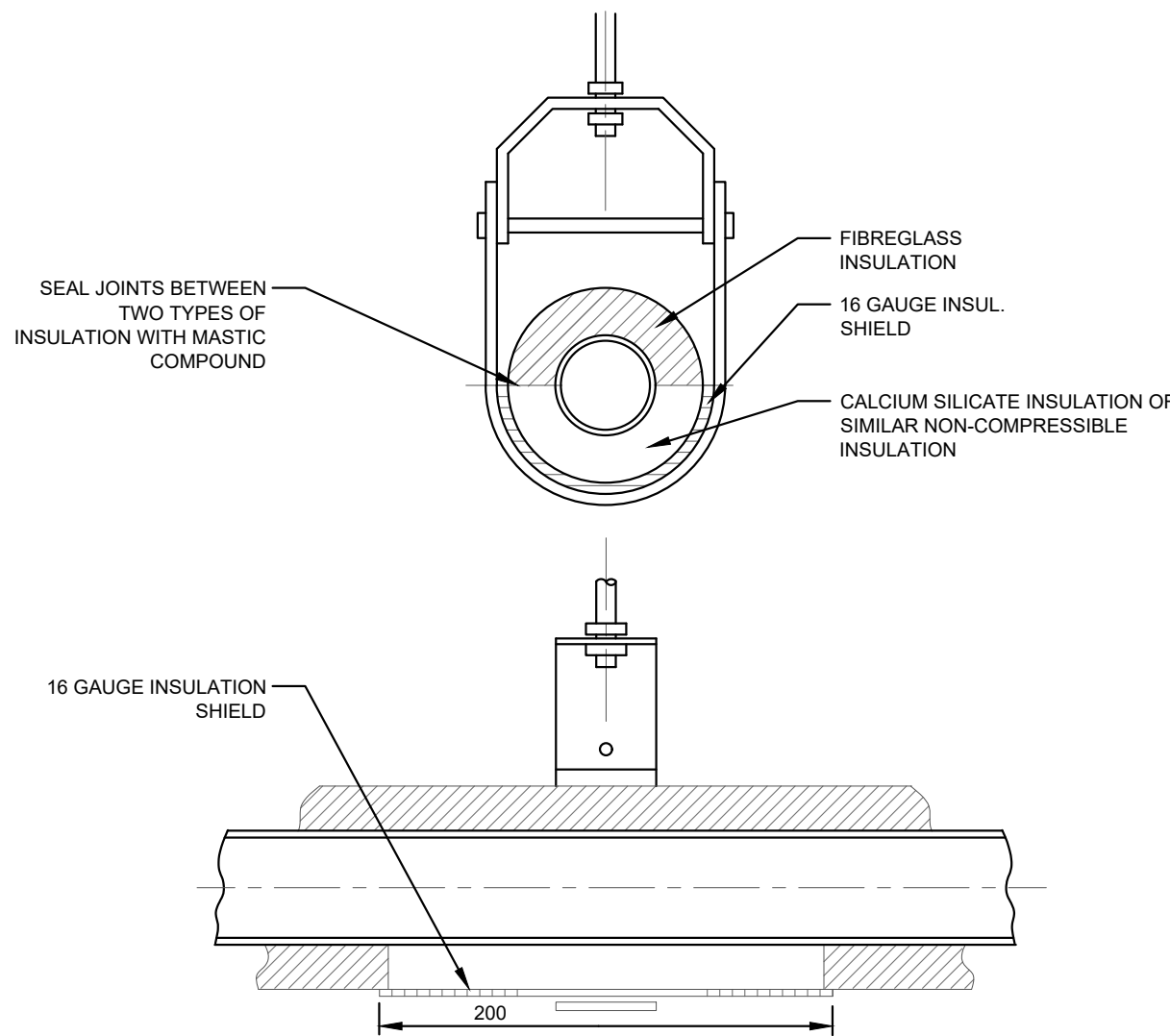
2 DUCT BRANCHES
M-900.0 SCALE: N.T.S.



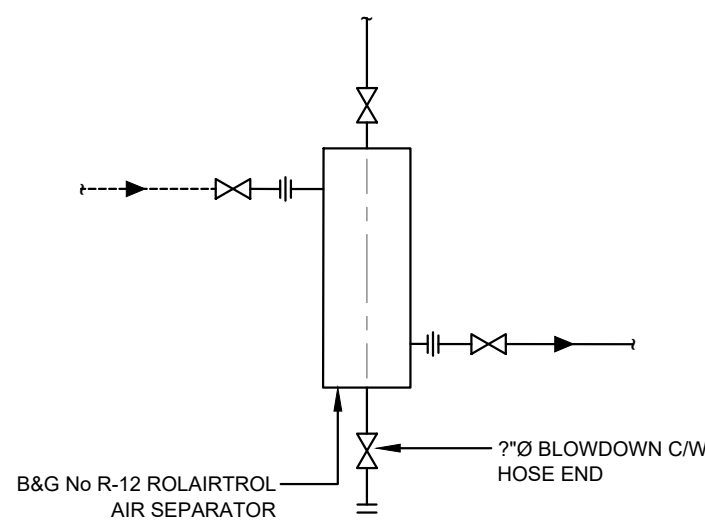
1 SINK PIPING CONNECTION
M-900.0 SCALE: N.T.S.



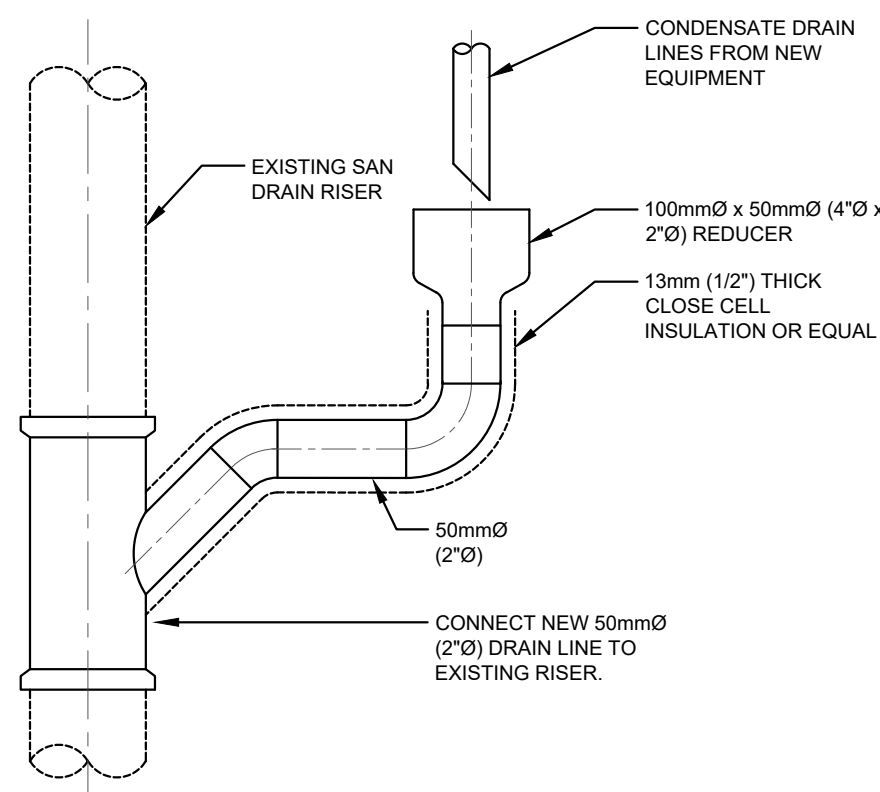
5 WATER METER AND ASSEMBLY
M-900.0 SCALE: N.T.S.



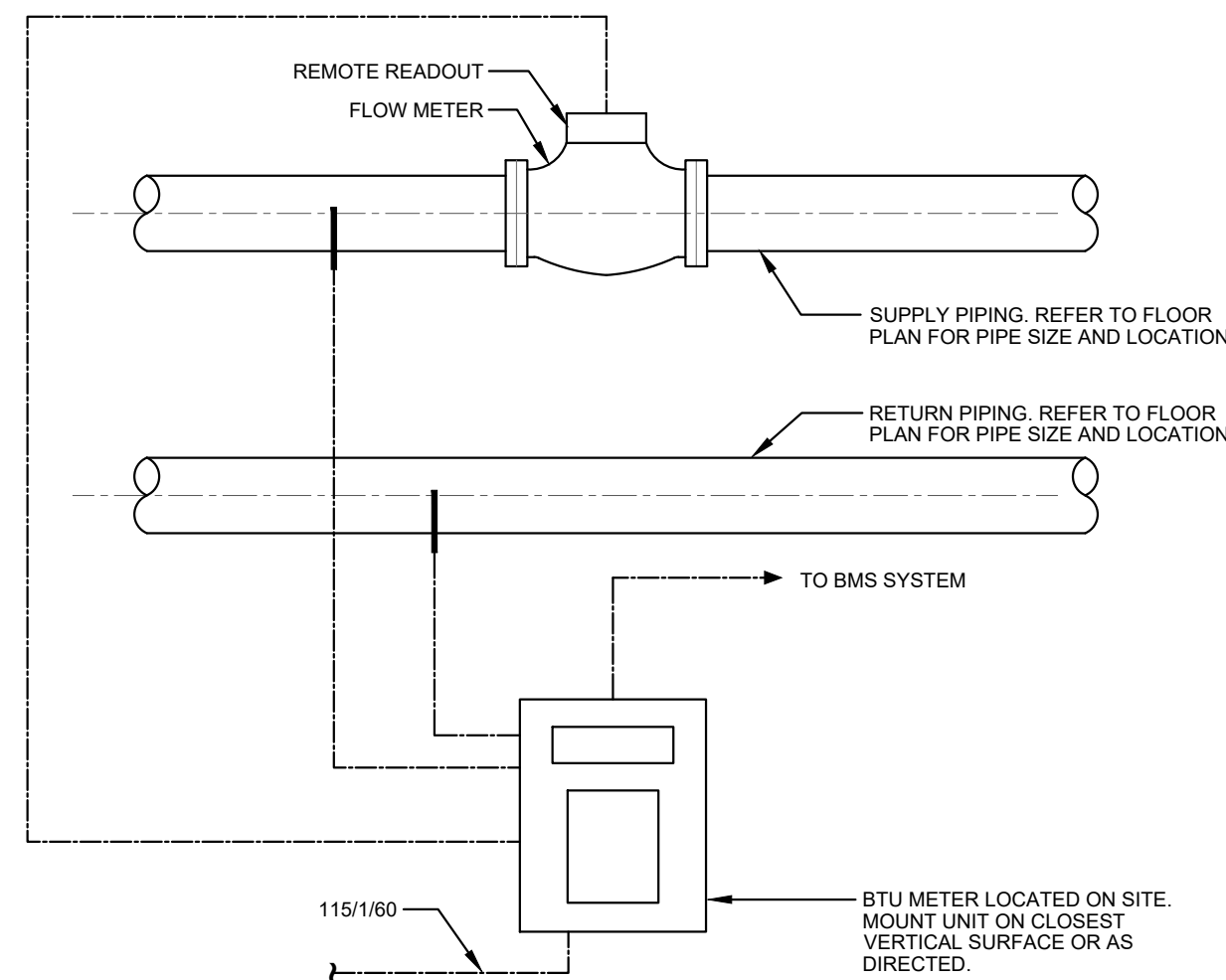
4 PIPE HANGER (CHILLED & COLD WATER)
M-900.0 SCALE: N.T.S.



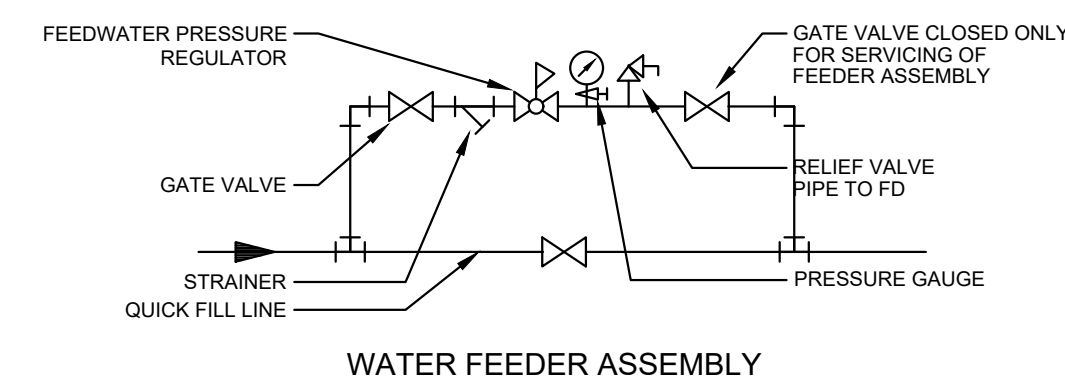
3 AIR SEPARATOR
M-900.0 SCALE: N.T.S.



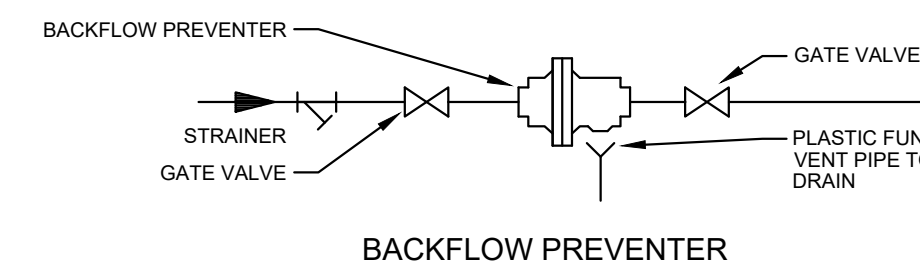
8 CONDENSATE DRAIN TERMINATION
M-900.0 SCALE: N.T.S.



7 ENERGY METER CONNECTION
M-900.0 SCALE: N.T.S.



WATER FEEDER ASSEMBLY



BACKFLOW PREVENTER

6 PRESSURE REDUCING VALVE, WATER FEEDER & BACKFLOW PREVENTER
M-900.0 SCALE: N.T.S.

ISSUED FOR TENDER	2024-11-08
ISSUED FOR PROGRESS	2024-08-23
revision	date

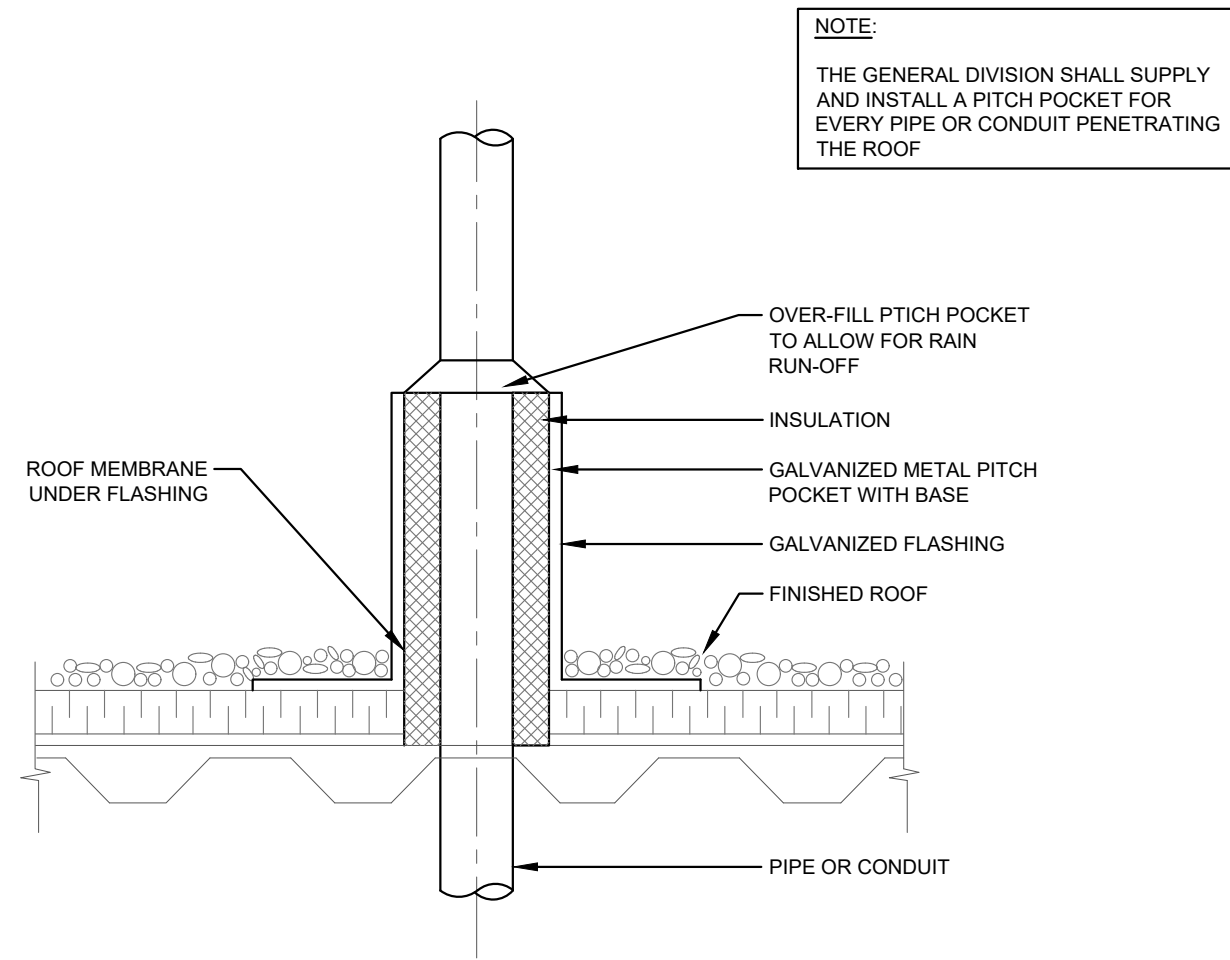
FIFA - EAST VSTS
CENTENNIAL PARK
Address: 56 Centennial Park Rd. Toronto, ON

MECHANICAL DETAILS I - BASE
SCOPE

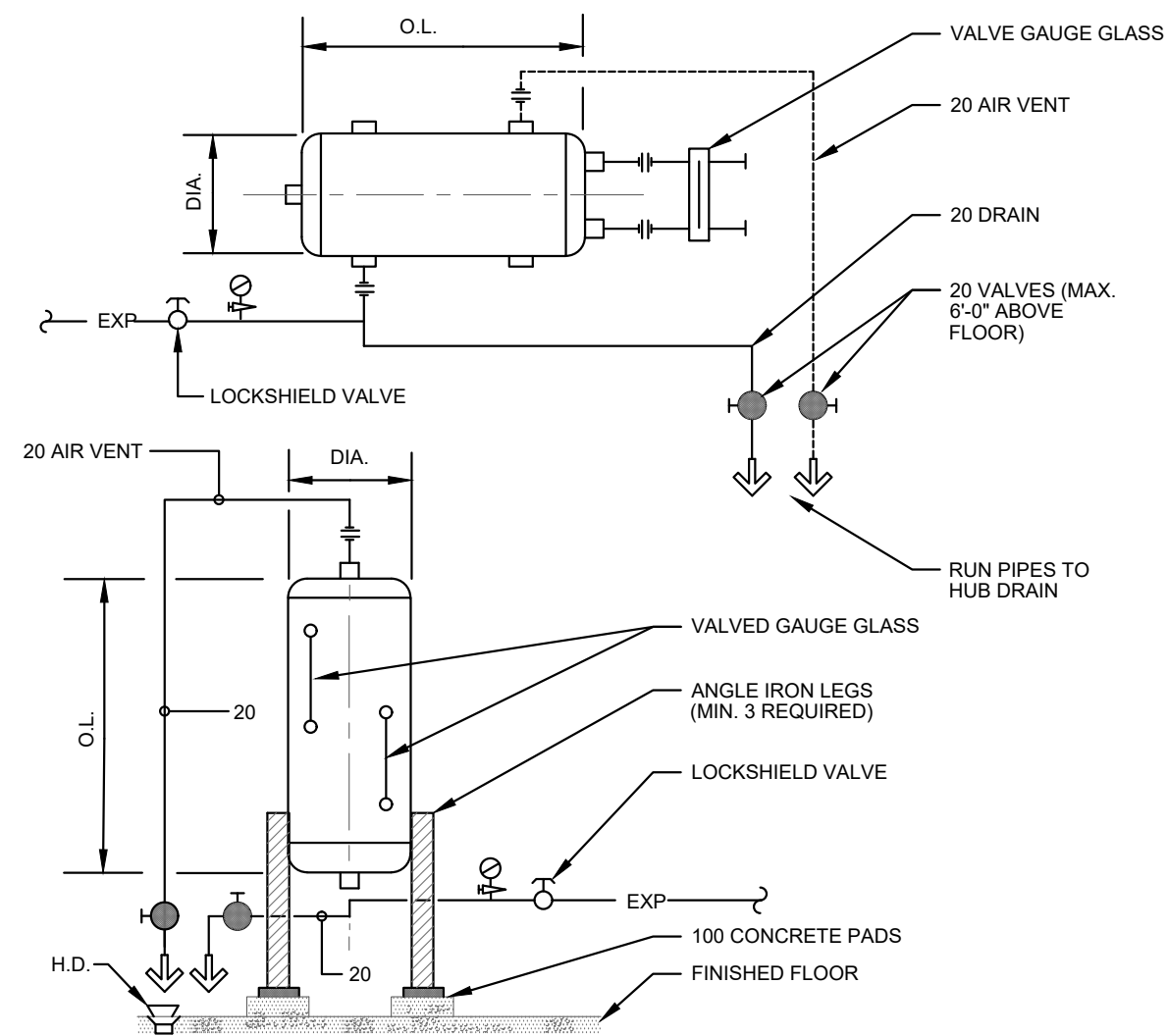
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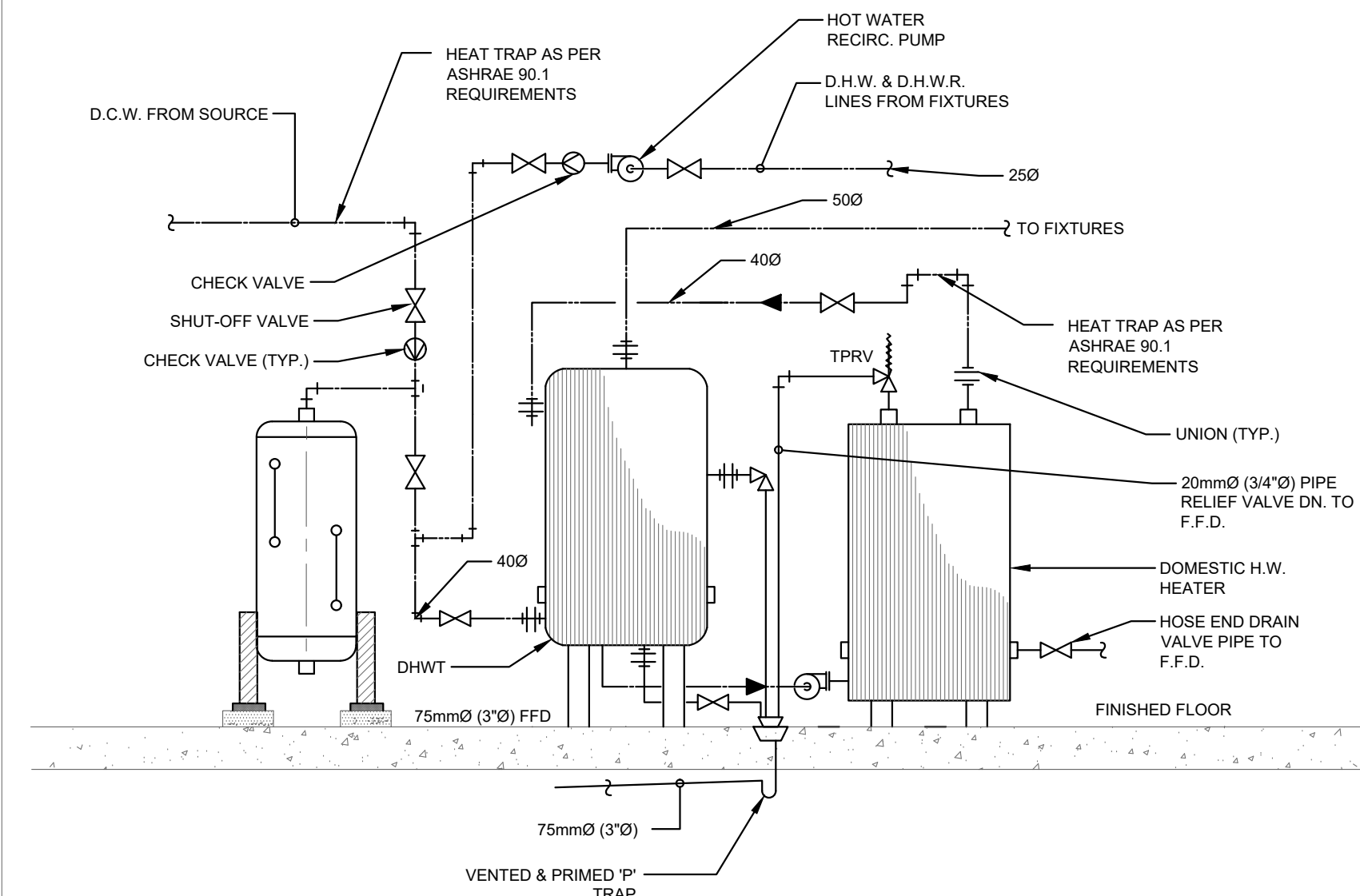
M-900.0



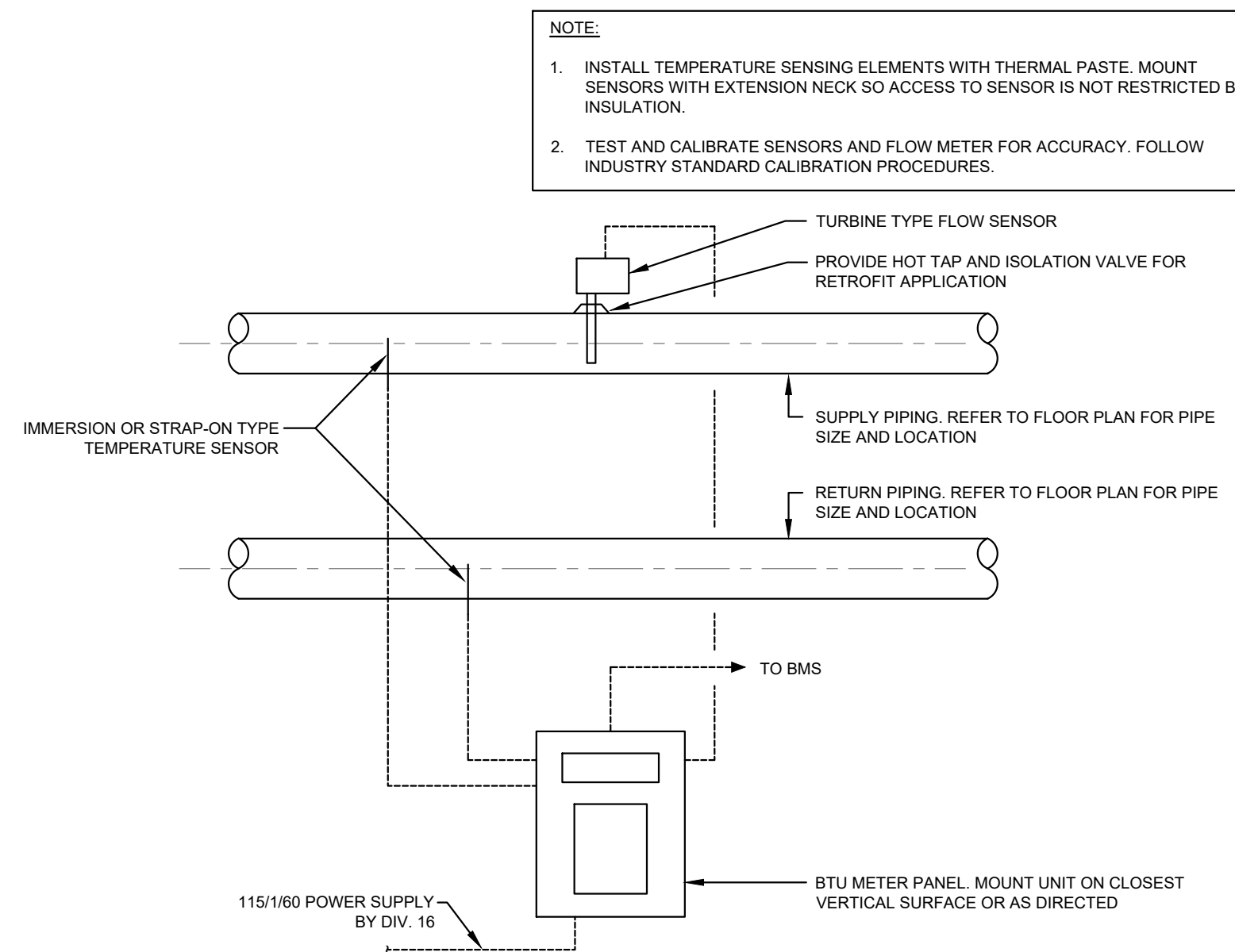
3 PITCH POCKET
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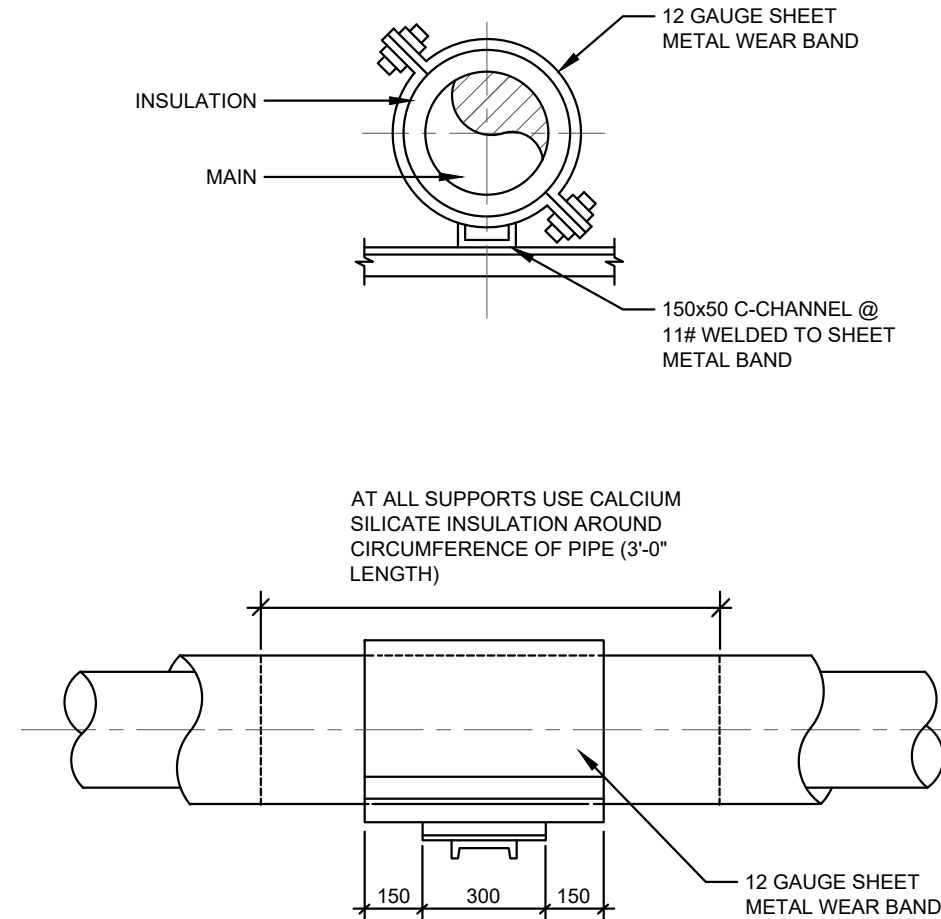
2 EXPANSION TANK
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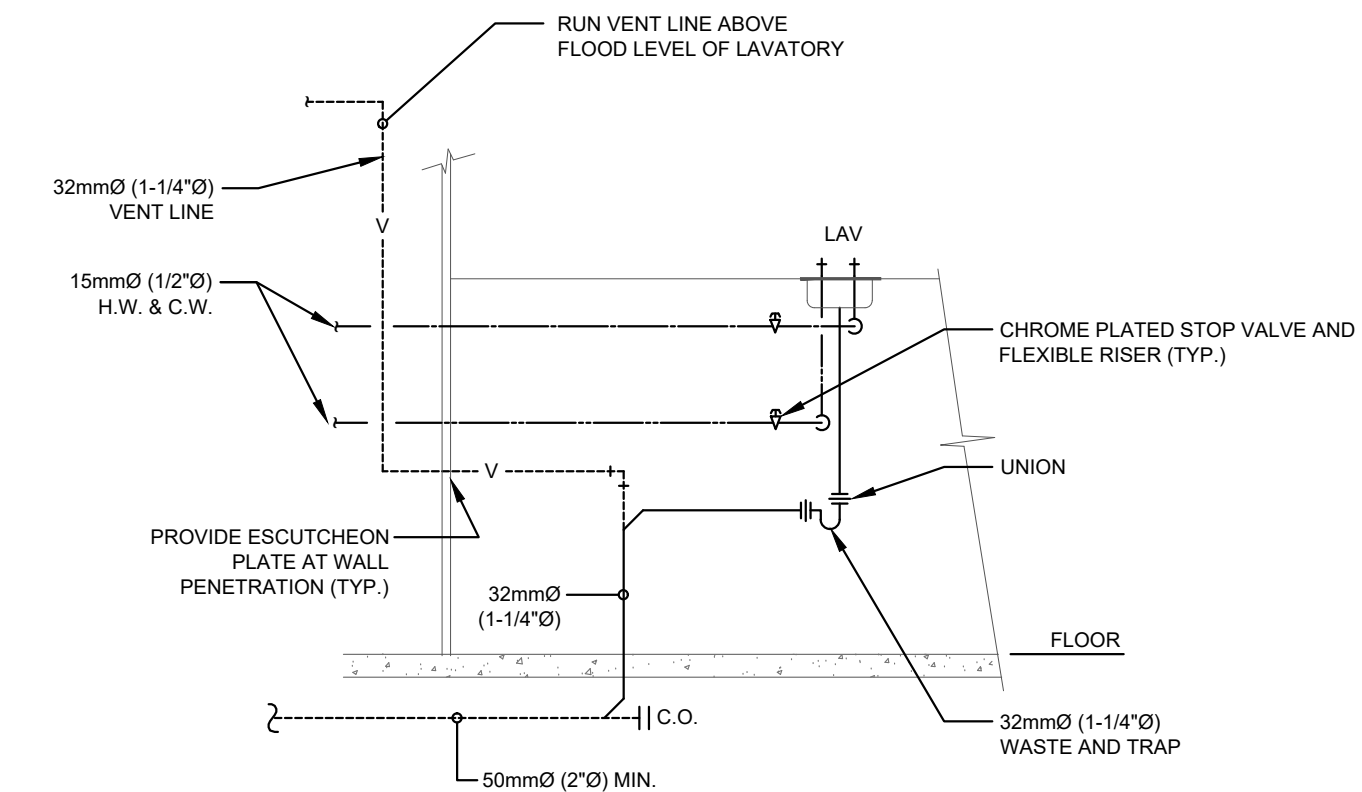
1 D.H.W. TANK - ELECTRIC FLOOR MOUNT W/ RECIRC PUMP
SCALE: N.T.S.



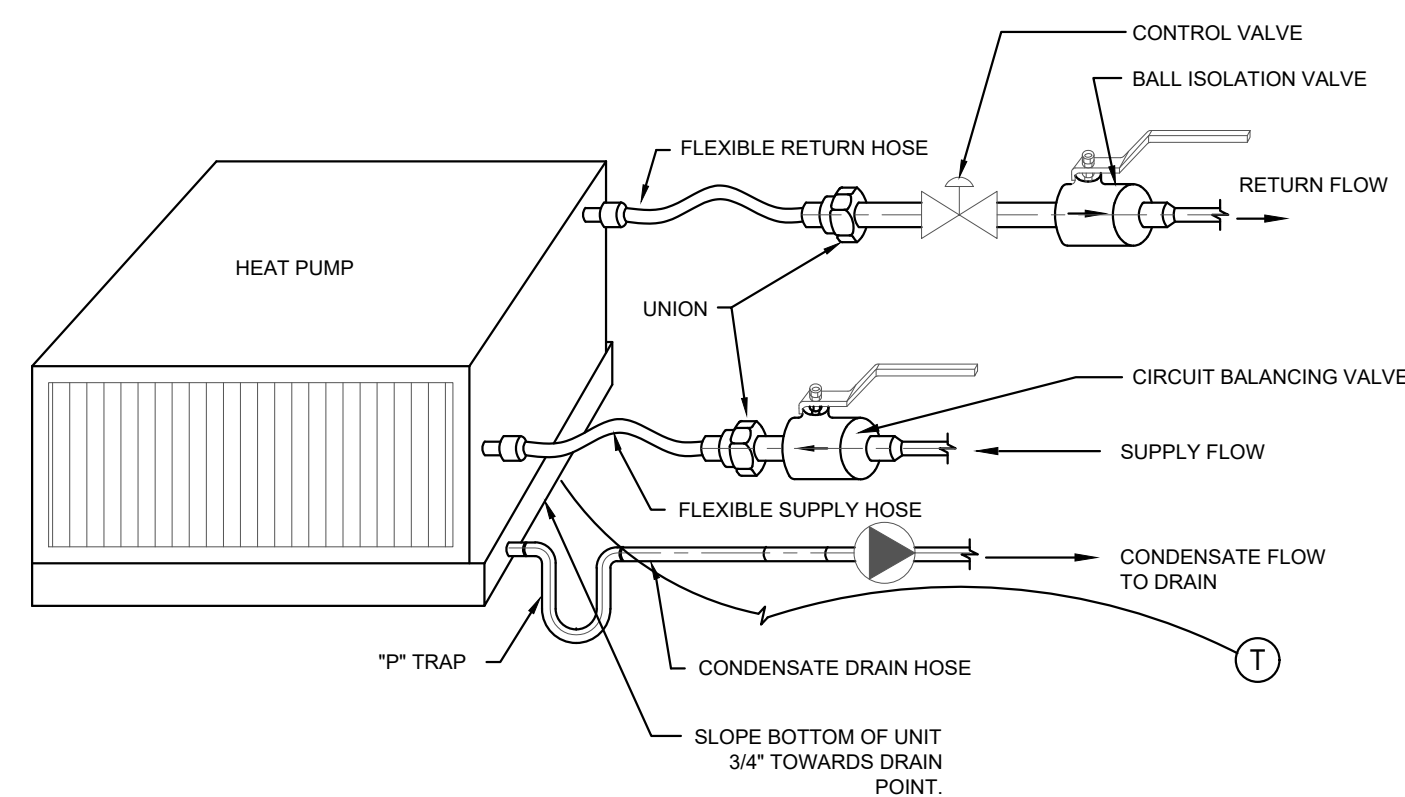
6 BTU METER CONNECTION
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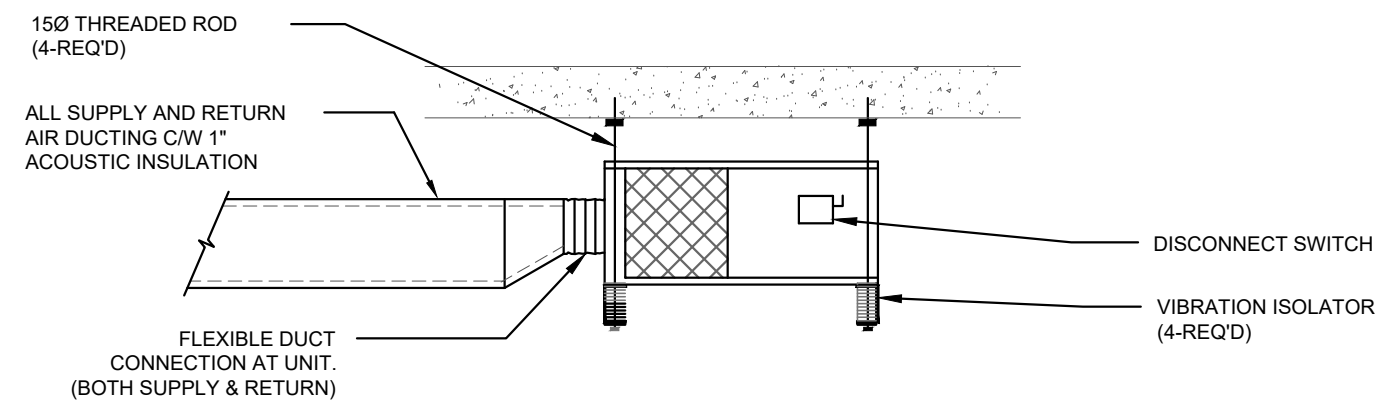
5 PIPE SUPPORT (COLD SYSTEMS)
SCALE: N.T.S.



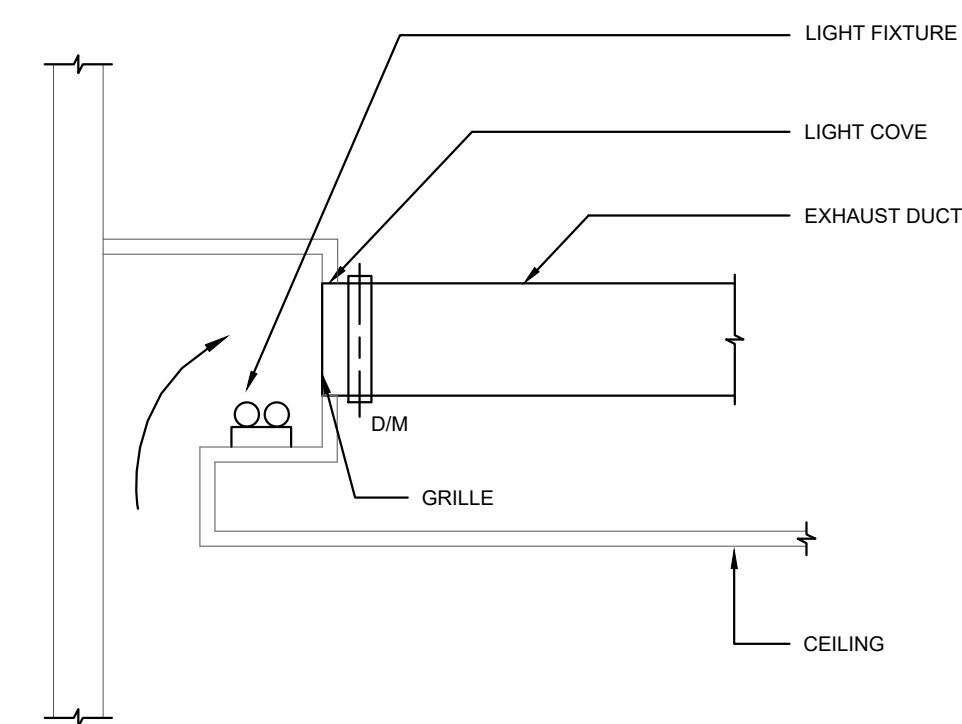
4 LAVATORY PIPING CONNECTION
SCALE: N.T.S.



9 HORIZONTAL HEAT PUMP PIPING DETAIL
SCALE: N.T.S.



8 HORIZONTAL HEAT PUMP MOUNTING DETAIL
SCALE: N.T.S.



7 LIGHT COVE EXHAUST
SCALE: N.T.S.

PACKAGE UNIT (SINGLE POINT POWER)

MOTOR CONTROL BY V.F.D. WITH EXTERNAL HARMONIC FILTER









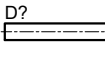
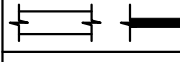
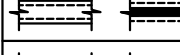
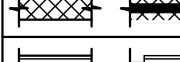
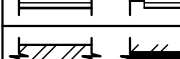
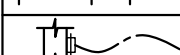
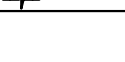



























BAS PANEL



















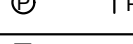


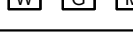




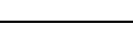
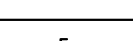





TYPICAL SMOKE DAMPER & FIRE/SMOKE WIRING DIAGRAM

HEAT TRACE SYSTEM WITH PANEL























LINE VOLTAGE THERMOSTAT CONTROL

HARD WIRED WASHROOM FIXTURES

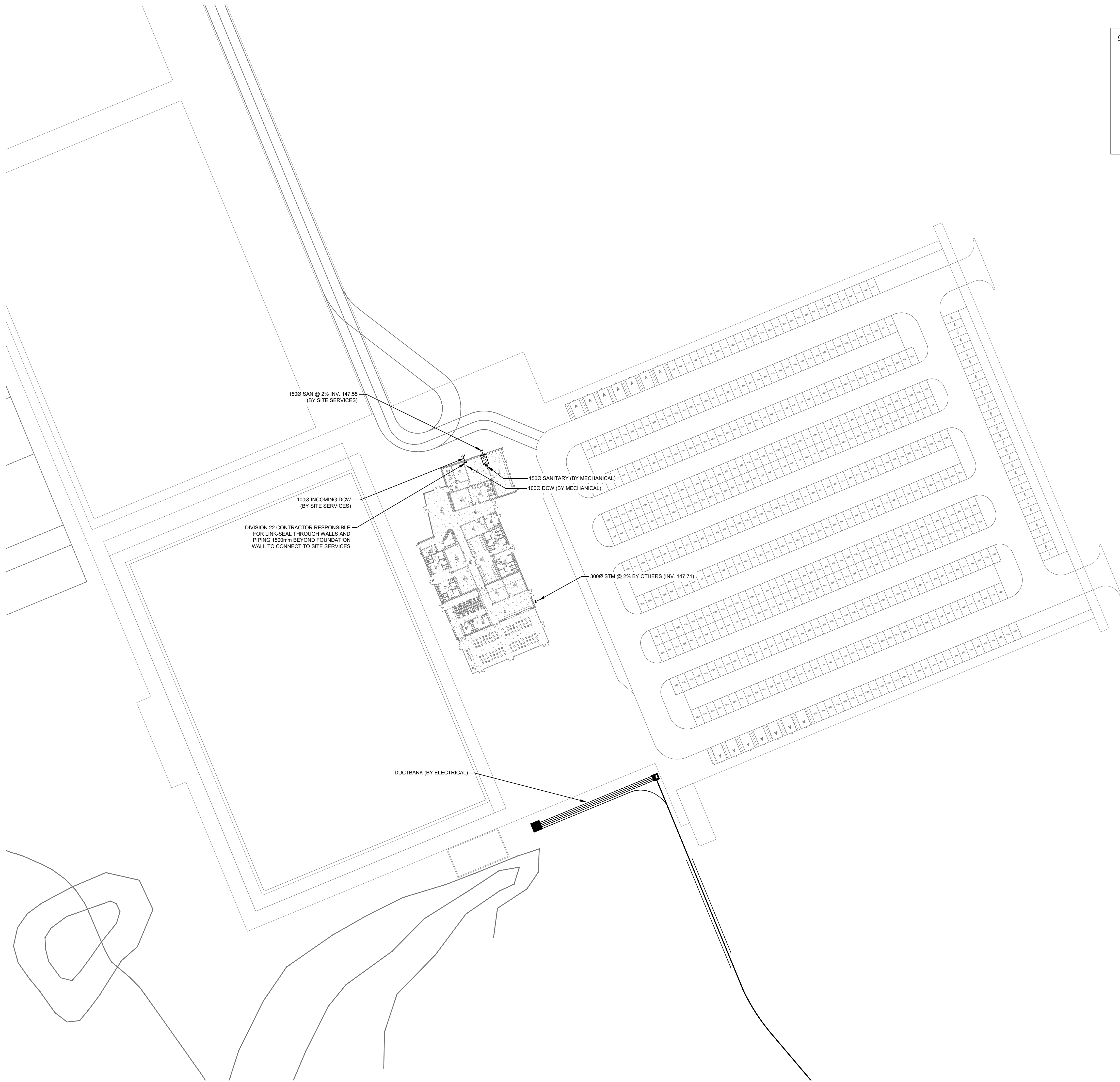
MECHANICAL LEGEND		EXISTING DEVICES ARE TONED :	 HB	 ①
		SUPPLY OR OUTSIDE AIR DUCT (UP / DOWN)		
		RETURN AIR DUCT (UP / DOWN)		
		EXHAUST AIR DUCT (UP / DOWN)		
	DAMPER DF - FIRE DG - GRAVITY BACKDRAFT DA - AUTOMATIC W/ OPERATOR DFS - FIRE/SMOKE		DM - MANUAL BALANCING DS - SMOKE	
	DOUBLE LINE DUCT - SINGLE LINE DUCT			
	DOUBLE LINE DUCT - SINGLE LINE DUCT WITH LINING AS NOTED			
	DOUBLE LINE DUCT - SINGLE LINE DUCT WITH ACOUSTIC INSULATION			
	DOUBLE LINE DUCT - SINGLE LINE DUCT WITH SILENCER			
	DOUBLE LINE DUCT - SINGLE LINE DUCT WITH FIRE WRAP			
	FLEX DUCT WITH TAKE-OFF C/W MANUAL BALANCING DAMPER			
	RETURN AIR GRILLE			
	EXHAUST GRILLE			
	TRANSFER GRILLE			
	SQUARE DIFFUSER			
	ROUND DIFFUSER			
	LINEAR DIFFUSER			
	VAV BOX			
	VAV BOX WITH ATTENUATOR			
	MECHANICAL EQUIPMENT AS INDICATED (REVIT)			
	THERMOSTAT			
	TEMPERATURE SENSOR - (DIGITAL)			
	HUMIDITY SENSOR			
	LEAK DETECTOR			
	SPEED CONTROLLER			
	ON/OFF SWITCH - CONTROL SWITCH			
	FD	FD - FLOOR HD - HUB	FFD - FUNNEL FLOOR AD - AREA	GD - GARAGE
	RD	ROOF DRAIN (SIZE)		
	MH	CATCH BASIN MAN HOLE AS INDICATED		
	RT	RUNNING TRAP		
	GTD	TD - TRENCH GTD - GARAGE		
	BWV	BACKWATER VALVE		
	♀	CLEANOUT - SUSPENDED / CLEANOUT - BURIED		
	HB	HB - HOSE BIB WH - WALL HYDRANT	NFHB - NON-FREEZE HOSE BIB	
	GH	NON-FREEZE GROUND HYDRANT		
	□	CAP		
	FE	FIRE EXTINGUISHER		
	FEC	FIRE EXTINGUISHER WITH CABINET		

MECHANICAL LEGEND		EXISTING DEVICES ARE TONED :  CBV 
	ISOLATION VALVE	
 CBV	CIRCUIT BALANCING VALVE	
 ABV	AUTOMATIC FLOW CONTROL VALVE	
	BALANCING VALVE	
	CHECK VALVE	
	PRESSURE REDUCING VALVE	
	SUPERVISED VALVE	
	(SAFETY) RELIEF VALVE	
	2 OR 3 WAY CONTROL VALVE	
	SOLENOID VALVE	
 SAFE	SHUT OFF FIRE SAFE VALVE	
 D	DRAIN VALVE	
	STRAINER	
	UNION	
	AIR VENT	
	FLOW SWITCH	
 PW	PRESSURE GAUGE	PRESSURE WELL
 TW	THERMOMETER	THERMOMETER WELL
	TEMPERATURE GAUGE	
 W G M	WATER METER / GAS METER / METER AS NOTED	
 BFP	BACKFLOW PREVENTOR	
	PIPE GUIDE / PIPE ANCHOR	
	WALL SLEEVE	
 EXP	EXPANSION JOINT	
	ELBOW TURNING DN. / TEE OUTLET TURNING DN.	
	ELBOW TURNING UP / TEE OUTLET TURNING UP	
	PIPE END CAPPED	
	RUNNING TRAP	
	HEAT TRACE	
	FLOW ARROW	
	LINE BREAK	
<hr/>		
-----SAN----- SANITARY DRAIN IN CEILING SPACE		
-----SAN----- SANITARY DRAIN BELOW SLAB		
-----SAN P----- SANITARY DRAIN - PUMPED		
-----D----- INDIRECT DRAIN		
-----V----- SANITARY VENT		
-----ST----- STORM DRAIN - SUSPENDED FROM CEILING		
-----ST----- STORM DRAIN - BURIED (BELOW FLOOR)		
-----ST.P----- STORM DRAIN - PUMPED		
-----DOMESTIC COLD WATER		
-----DOMESTIC HOT WATER		
-----DOMESTIC HOT WATER RECIRCULATION		
-----60----- DOMESTIC HOT WATER - HIGH TEMPERATURE		
-----60----- DOMESTIC HOT WATER RECIRC - HIGH TEMPERATURE		
-----CWS----- CONDENSER WATER - SUPPLY		
-----CWR----- CONDENSER WATER - RETURN		

MECHANICAL LEGEND		EXISTING DEVICES ARE TONED: <div><div>1-3</div></div>	
MAX. AIR (CFM or l/s) MIN. AIR (CFM or l/s)		<div><div>00</div><div>00</div></div> A	VAV BOX
MAX. AIR (CFM or l/s) MIN. AIR (CFM or l/s) HTG. AIR (CFM or l/s) HTG. CAP (MBH or kW)		<div><div>00</div><div>00</div><div>00</div><div>00.00</div></div> A	VAV BOX WITH HEATING COIL
PRIMARY MAX (CFM or l/s) PRIMARY MIN (CFM or l/s) HTG. AIR (CFM or l/s) HTG. CAP (MBH or kW)		<div><div>00</div><div>00</div><div>00</div><div>00.00</div></div> A	FAN POWERED VAV BOX
SIZE LENGTH OR NECK DIAMETER (mm X mm) AIR FLOW (l/s)		<div><div>00x00</div><div>0000</div></div> A	DIFFUSER, REGISTER OR GRILLE TYPE = Sx, Rx, Ex
LENGTH (in or mm) HTG. CAP (MBH or kW)		<div><div>IN</div><div>000</div></div> A	RADIATION OR (RA) RADIANT PANEL
CTE		CONNECT TO EXISTING	
<div><div>MX-#</div></div>		EQUIPMENT TAG (REFER TO SCHEDULE)	
<div><div>L-#</div></div>		PLUMBING FIXTURE TAG	
<div><div>XX-#</div></div>		RISER TAG	
<div><div>III</div></div>		*REFER TO KEYNOTE* NUMBER	
<div><div>XX</div></div>		*REFER TO DETAIL NOTE* NUMBER	
DWG. M-XXX DWG. M-XXX		DENOTES MATCHLINE	
<div><div></div></div>		DENOTES CROSS SECTION DETAIL CALL OUT	
<div><div></div></div>		DENOTES DETAIL CALLOUT	
DEMOLITION			
R	RL	R - REMOVE RL - RELOCATE	
<div><div></div></div>		DENOTES EXISTING EQUIPMENT, PIPE, DUCT TO BE 'REMOVED'	
<div><div>R</div></div>		DENOTES EXISTING EQUIPMENT TO BE 'REMOVED'	
<div><div>RL</div></div>		DENOTES EXISTING EQUIPMENT, PIPE, DUCT TO BE 'RELOCATED'	
EXISTING			
<div><div></div></div>		EXISTING TO REMAIN (TONED)	
<div><div></div><div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></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MECHANICAL LEGEND		EXISTING DEVICES ARE TONED :
	OPEN/CLOSE	 
	AIR FLOW SENSOR	
	MODULATING	
	FIRE ALARM SYSTEM	
	END SWITCH	
	START/STOP	
	ENABLE/DISABLE	
	HIGH HUMIDITY SENSOR	
	PRESSURE DIFFERENTIAL	
	SMOKE DETECTOR	
	FIRE STAT	
	FREEZE STAT	
	DIGITAL INPUT	
	DIGITAL OUTPUT	
	ANALOGUE INPUT	
	ANALOGUE OUTPUT	
	TEMPERATURE SENSOR	
	FLOW SENSOR	
	PRESSURE SENSOR	
	HUMIDITY SENSOR	

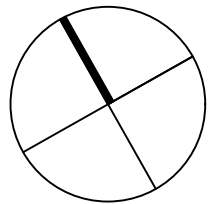
DRAWING LIST	
DWG. No.	DRAWING TITLE
M-000.1	MECHANICAL LEGEND AND DRAWING LIST - SEPARATE PRICE 1
M-011.1	SITE PLAN - SEPARATE PRICE 1
M-110.1	EAST VSTS BELOW GRADE GAME PLUMBING & DRAINAGE - SEPARATE PRICE 1
M-111.1	EAST VSTS GROUND FLOOR GAME PLUMBING & DRAINAGE - SEPARATE PRICE 1
M-112.1	EAST VSTS ROOF GAME PLUMBING & DRAINAGE - SEPARATE PRICE 1
M-113.1	EAST VSTS BELOW GRADE LEGACY PLUMBING & DRAINAGE - SEPARATE PRICE 1
M-114.1	EAST VSTS GROUND FLOOR LEGACY PLUMBING & DRAINAGE - SEPARATE PRICE 1
M-115.1	EAST VSTS ROOF LEGACY PLUMBING & DRAINAGE - SEPARATE PRICE 1
M-211.1	EAST VSTS GROUND FLOOR GAME FIRE PROTECTION - SEPARATE PRICE 1
M-311.1	EAST VSTS GROUND FLOOR GAME HVAC - SEPARATE PRICE 1
M-312.1	EAST VSTS ROOF GAME HVAC - SEPARATE PRICE 1
M-313.1	EAST VSTS GROUND LEGACY FLOOR HVAC - SEPARATE PRICE 1
M-411.1	EAST VSTS GROUND FLOOR GAME HVAC PIPING - SEPARATE PRICE 1
M-412.1	EAST VSTS ROOF GAME HVAC PIPING - SEPARATE PRICE 1
M-413.1	EAST VSTS GROUND LEGACY FLOOR HVAC PIPING - SEPARATE PRICE 1
M-500.1	EAST VSTS MECHANICAL PART PLAN - SEPARATE PRICE 1
M-600.1	EAST VSTS HEATING AND COOLING SCHEMATIC - SEPARATE PRICE 1
M-601.1	EAST VSTS HVAC AIRSIDE SCHEMATIC - SEPARATE PRICE 1
M-602.1	EAST VSTS DOMESTIC WATER GAME SCHEMATIC - SEPARATE PRICE 1
M-603.1	EAST VSTS HVAC SANITARY GAME SCHEMATIC - SEPARATE PRICE 1
M-604.1	EAST VSTS HVAC STORM SCHEMATIC - SEPARATE PRICE 1
M-605.1	EAST VSTS DOMESTIC WATER LEGACY SCHEMATIC - SEPARATE PRICE 1
M-606.1	EAST VSTS HVAC SANITARY LEGACY SCHEMATIC - SEPARATE PRICE 1
M-700.1	CONTROLS SCHEMATICS - SEPARATE PRICE 1
M-800.1	MECHANICAL SCHEDULES I - SEPARATE PRICE 1
M-801.1	MECHANICAL SCHEDULES II - SEPARATE PRICE 1
M-802.1	MECHANICAL SCHEDULES III - SEPARATE PRICE 1
M-900.1	MECHANICAL DETAILS I - SEPARATE PRICE 1
M-901.1	MECHANICAL DETAILS II - SEPARATE PRICE 1



- GENERAL NOTES:**
1. NEW SERVICE CONNECTION LOCATIONS AND INVERTS SHALL BE AS SPECIFIED BY THE CIVIL ENGINEER, REFER TO CIVIL DRAWINGS FOR COORDINATION, MECHANICAL SCOPE OF WORK TO BEGIN 1500MM OUT FROM THE FOUNDATION WALL.
 2. SANITARY DRAIN PIPING TO BE AT MINIMUM 1% SLOPE, UNLESS OTHERWISE NOTED.
 3. ALL DIMENSIONS AND ELEVATIONS ARE TO BE CHECKED AND VERIFIED ON SITE BY THE CONTRACTOR AND DISCREPANCIES REPORTED PRIOR TO THE START OF WORK.
 4. MECHANICAL CONTRACTOR SHALL PROVIDE SCHEDULE 40 SLEEVES AND LINK SEALS FOR ALL SITE SERVICES.
 5. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL INVERTS AND COORDINATION WITH SITE SERVICES AND STRUCTURAL ELEMENTS.
 6. PROVIDE ELECTRIC PIPE TRACING ON ALL PIPING SUBJECT TO FREEZING OR IN UNHEATED SPACES.
 7. WATER METER WILL BE RELOCATED FROM THE BUNKER INTO THE BUILDING DURING CONSTRUCTION.



ISSUED FOR TENDER	2024-11-08
ISSUED FOR PROGRESS	2024-08-23
ISSUED FOR PROGRESS	2024-08-15
ISSUED FOR COORDINATION	2024-07-30
ISSUED FOR CLASS C COSTING	2024-06-28
revision	692

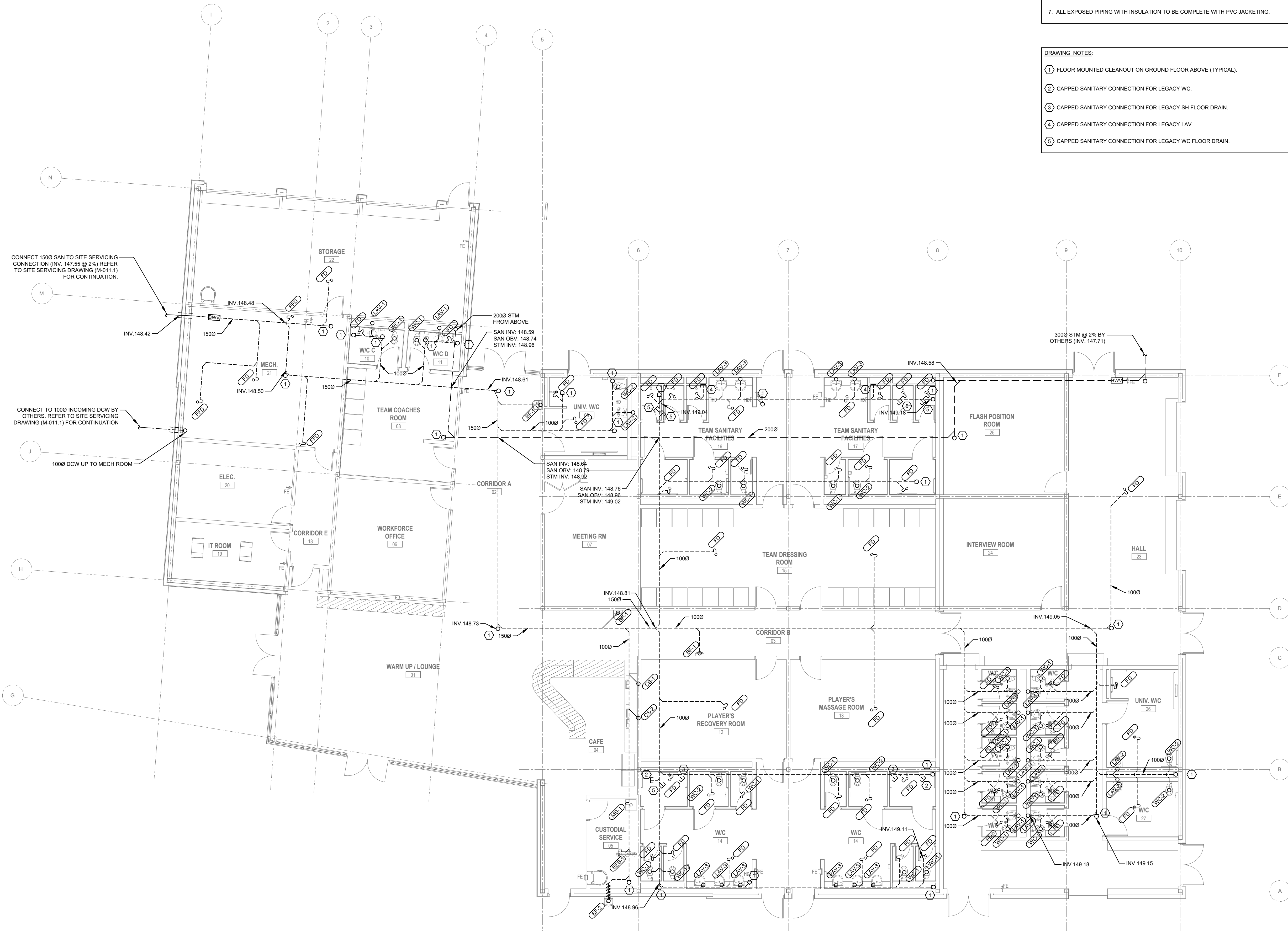


FIFA - EAST VSTS
CENTENNIAL PARK
Address: 56 Centennial Park Rd. Toronto, ON
SITE PLAN - SEPARATE PRICE 1

project no. : 2024-0112
scale : 1:600
date :

drawing no. :

M-011.1



CONNECT 1500 SAN TO SITE SERVICING CONNECTION (INV. 147.55 @ 2%) REFER TO SITE SERVICING DRAWING (M-011.1) FOR CONTINUATION.

CONNECT TO 1000 INCOMING DCW BY OTHERS, REFER TO SITE SERVICING DRAWING (M-011.1) FOR CONTINUATION.

1000 DCW UP TO MECH ROOM

- GENERAL NOTES:
- SANITARY DRAIN PIPING TO BE AT MINIMUM 1% SLOPE, UNLESS OTHERWISE NOTED.
 - ALL DIMENSIONS AND ELEVATIONS ARE TO BE CHECKED AND VERIFIED ON SITE BY THE CONTRACTOR AND DISCREPANCIES REPORTED PRIOR TO THE START OF WORK.
 - ALL FOUNDATION PLUMBING TO BE PVC.
 - PROVIDE COMPLETE SANITARY VENT SYSTEM IN ACCORDANCE WITH THE OBC.
 - PROVIDE CLEANOUTS ON ALL DRAINAGE AND WASTE SYSTEMS, NOT LIMITED TO CLEANOUTS SHOWN ON THE DRAWINGS.
 - ALL FLOOR DRAIN P-TRAPS SHALL BE PRIMED FROM A CENTRAL ELECTRONIC TRAP SEAL PRIMER. DIVISION 22 CONTRACTOR MUST COORDINATE WITH ELECTRICAL TRADE FOR CIRCUIT LOCATIONS DURING SHOP DRAWING STAGE, OTHERWISE DIVISION 22 TRADE WILL BE RESPONSIBLE FOR ALL COSTS ASSOCIATED WITH CIRCUIT WIRING.
 - ALL EXPOSED PIPING WITH INSULATION TO BE COMPLETE WITH PVC JACKETING.

- DRAWING NOTES:
- FLOOR MOUNTED CLEANOUT ON GROUND FLOOR ABOVE (TYPICAL).
 - CAPPED SANITARY CONNECTION FOR LEGACY WC.
 - CAPPED SANITARY CONNECTION FOR LEGACY SH FLOOR DRAIN.
 - CAPPED SANITARY CONNECTION FOR LEGACY LAV.
 - CAPPED SANITARY CONNECTION FOR LEGACY WC FLOOR DRAIN.

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ISSUED FOR TENDER	2024-11-08
ISSUED FOR PROGRESS	2024-08-23
ISSUED FOR PROGRESS	2024-08-15
ISSUED FOR COORDINATION	2024-07-30
ISSUED FOR CLASS C COSTING	2024-06-26
revision	date

FIFA - EAST VSTS
CENTENNIAL PARK
Address: 56 Centennial Park Rd. Toronto, ON

EAST VSTS BELOW GRADE
GAME
PLUMBING & DRAINAGE -
SEPARATE PRICE 1

project no. : 2024-0112
scale : 1:100
date :

drawing no. :

M-110.1

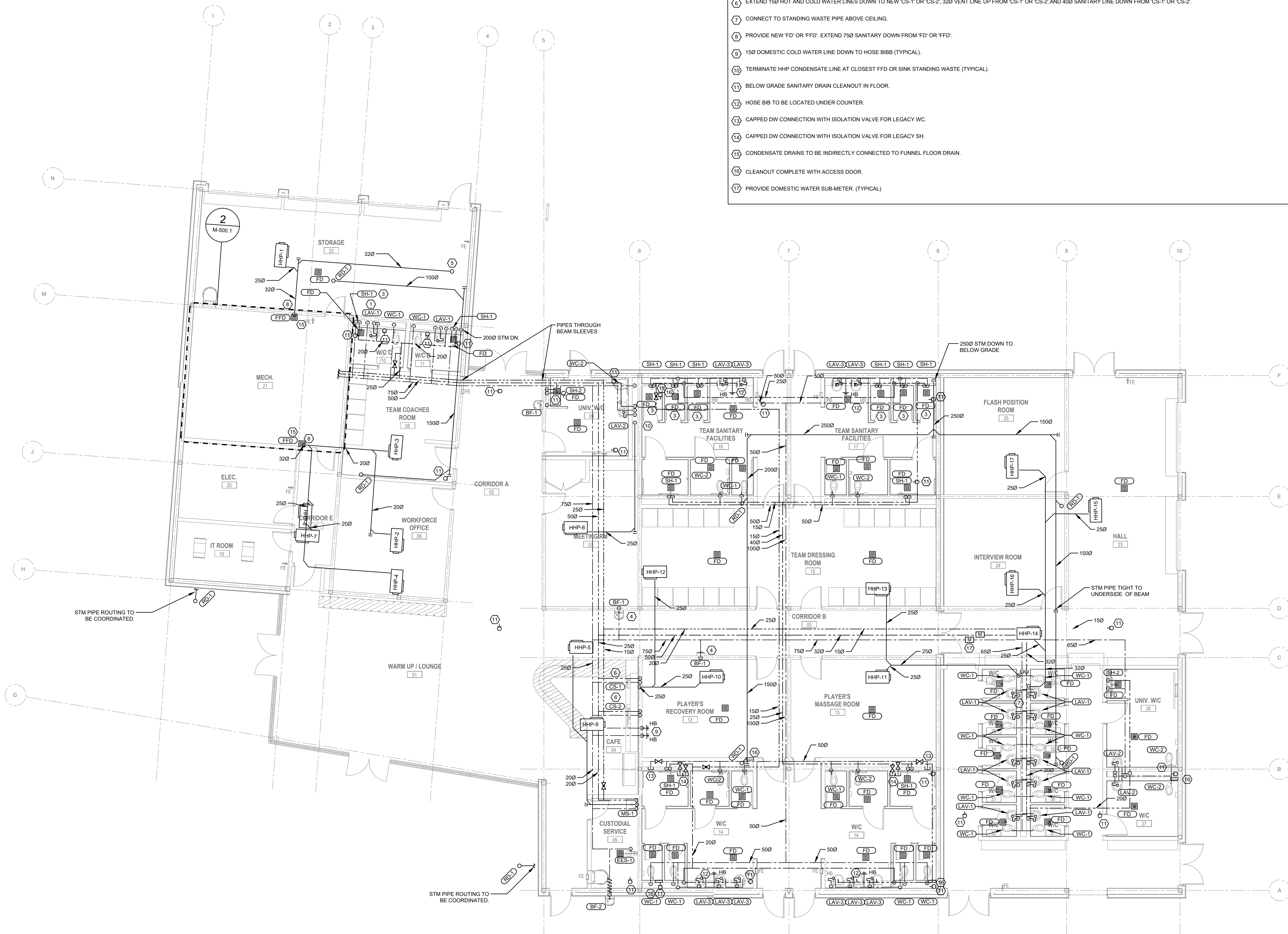


GENERAL NOTES:

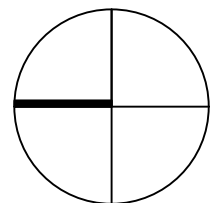
- SANITARY DRAIN PIPING TO BE AT MINIMUM 1% SLOPE, UNLESS OTHERWISE NOTED.
- CONTRACTOR SHOULD REFER TO REFLECTED CEILING PLAN FOR COORDINATION WITH MECHANICAL SERVICE AND DEVICES.
- ALL DIMENSIONS AND ELEVATIONS ARE TO BE CHECKED AND VERIFIED ON SITE BY THE CONTRACTOR AND DISCREPANCIES REPORTED PRIOR TO THE START OF WORK.
- ALL FOUNDATION PLUMBING TO BE PVC.
- PROVIDE COMPLETE SANITARY VENT SYSTEM IN ACCORDANCE WITH THE OBC.
- PROVIDE CLEANOUTS ON ALL DRAINAGE AND WASTE SYSTEMS, NOT LIMITED TO CLEANOUTS SHOWN ON THE DRAWINGS.
- ALL FLOOR DRAIN P-TRAPS SHALL BE PRIMED FROM A CENTRAL ELECTRONIC TRAP SEAL PRIMER. DIVISION 22 CONTRACTOR MUST COORDINATE WITH ELECTRICAL TRADE FOR CIRCUIT LOCATIONS DURING SHOP DRAWING STAGE. OTHERWISE DIVISION 22 TRADE WILL BE RESPONSIBLE FOR ALL COSTS ASSOCIATED WITH CIRCUIT WIRING.
- ALL EXPOSED PIPING WITH INSULATION TO BE COMPLETE WITH PVC JACKETING.
- ALL PIPING IN CEILING SPACE SHALL BE INSTALLED AS TIGHT AS POSSIBLE TO UNDERSIDE OF ROOF. WHERE POSSIBLE, RUN PIPES THROUGH OPEN WEB JOISTS. COORDINATE OPENINGS FOR PIPES THROUGH STRUCTURAL BEAMS WITH STRUCTURAL, AS REQUIRED.
- CONTRACTOR TO PROVIDE THRUST RESTRAINTS ON ALL PIPING SUBJECT TO POTENTIAL HYDROSTATIC HEAD AS OUTLINED IN SPEC SECTIONS 22 13 16 AND 22 14 16.
- PROVIDE EXPANSION LOOPS FOR HYDRONIC PIPING FOR ANY STRAIGHT LENGTH OF 100 FT OR GREATER.

DRAWING NOTES:

- EXTEND 150 HOT AND COLD WATER LINES DOWN TO NEW 'LAV-1', 'LAV-2', OR 'LAV-3', 320 VENT LINE UP FROM 'LAV-1', 'LAV-2', OR 'LAV-3' (TYPICAL).
- EXTEND 250 COLD WATER LINE DOWN TO NEW 'WC-1' OR 'WC-2', 500 VENT LINE UP FROM 'WC-1' OR 'WC-2', AND 750 SANITARY LINE DOWN FROM 'WC-1' OR 'WC-2'. (TYPICAL)
- EXTEND 150 HOT AND COLD WATER LINES DOWN TO NEW 'SH-1' OR 'SH-2' AND 320 VENT LINE UP FROM 'SH-1' OR 'SH-2' (TYPICAL).
- PROVIDE NEW BOTTLE FILLER, 'BF-1' AS SPECIFIED. EXTEND NEW 150 COLD WATER LINE TO NEW BOTTLE FILLER 'BF-1', 320 VENT LINE UP FROM 'BF-1', AND 400 SANITARY LINE DOWN FROM 'BF-1'. (TYPICAL)
- CONDENSATE DRAIN DOWN FROM MUA-1 ON ROOF.
- EXTEND 150 HOT AND COLD WATER LINES DOWN TO NEW 'CS-1' OR 'CS-2', 320 VENT LINE UP FROM 'CS-1' OR 'CS-2' AND 400 SANITARY LINE DOWN FROM 'CS-1' OR 'CS-2'.
- CONNECT TO STANDING WASTE PIPE ABOVE CEILING.
- PROVIDE NEW 'FD' OR 'FFD'. EXTEND 750 SANITARY DOWN FROM 'FD' OR 'FFD'.
- 150 DOMESTIC COLD WATER LINE DOWN TO HOSE BIBB (TYPICAL).
- TERMINATE HHP CONDENSATE LINE AT CLOSEST FFD OR SINK STANDING WASTE (TYPICAL).
- BELOW GRADE SANITARY DRAIN CLEANOUT IN FLOOR.
- HOSE BIB TO BE LOCATED UNDER COUNTER.
- CAPPED DW CONNECTION WITH ISOLATION VALVE FOR LEGACY WC.
- CAPPED DW CONNECTION WITH ISOLATION VALVE FOR LEGACY SH.
- CONDENSATE DRAINS TO BE INDIRECTLY CONNECTED TO FUNNEL FLOOR DRAIN.
- CLEANOUT COMPLETE WITH ACCESS DOOR.
- PROVIDE DOMESTIC WATER SUB-METER. (TYPICAL)



ISSUED FOR TENDER	2024-11-08
ISSUED FOR PROGRESS	2024-08-23
ISSUED FOR PROGRESS	2024-08-15
ISSUED FOR COORDINATION	2024-07-30
ISSUED FOR CLASS C COSTING	2024-06-28
REVISION	05/09



FIFA - EAST VSTS
CENTENNIAL PARK

Address: 56 Centennial Park Rd, Toronto, ON

EAST VSTS GROUND FLOOR
GAME PLAN
PLUMBING & DRAINAGE -
SEPARATE PRICE 1

project no. : 2024-0112
scale : 1:100
date :

drawing no. :

M-111.1



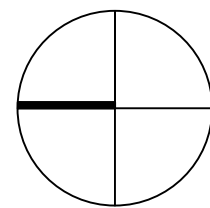
GENERAL NOTES:

- SANITARY DRAIN PIPING TO BE AT MINIMUM 1% SLOPE, UNLESS OTHERWISE NOTED.
- CONTRACTOR SHOULD REFER TO REFLECTED CEILING PLAN FOR COORDINATION WITH MECHANICAL SERVICE AND DEVICES.
- ALL DIMENSIONS AND ELEVATIONS ARE TO BE CHECKED AND VERIFIED ON SITE BY THE CONTRACTOR AND DISCREPANCIES REPORTED PRIOR TO THE START OF WORK.
- PROVIDE COMPLETE SANITARY VENT SYSTEM IN ACCORDANCE WITH THE OBC.
- ALL EXPOSED PIPING WITH INSULATION TO BE COMPLETE WITH PVC JACKETING.
- WEEPING TILE AND CONSTRUCTION OF WATERTIGHT ELEVATOR SHAFT BY OTHERS. (BELOW GRADE ONLY)

DRAWING NOTES:

- PROVIDE SCUPPER DRAIN, (TYPICAL)
- PROVIDE ROOF DRAIN, (TYPICAL)
- CONNECT 320 DRAIN TO MUA-1. DRAIN LINES SHALL BE ELECTRICALLY HEAT TRACED ON ROOF. COORDINATE CONDENSATE DRAIN ROOF PENETRATION LOCATION SUIT.

ISSUED FOR TENDER	2024-11-08
ISSUED FOR PROGRESS	2024-08-23
ISSUED FOR PROGRESS	2024-08-15
ISSUED FOR COORDINATION	2024-07-30
ISSUED FOR CLASS C COSTING	2024-06-28
revision	692



FIFA - EAST VSTS
CENTENNIAL PARK

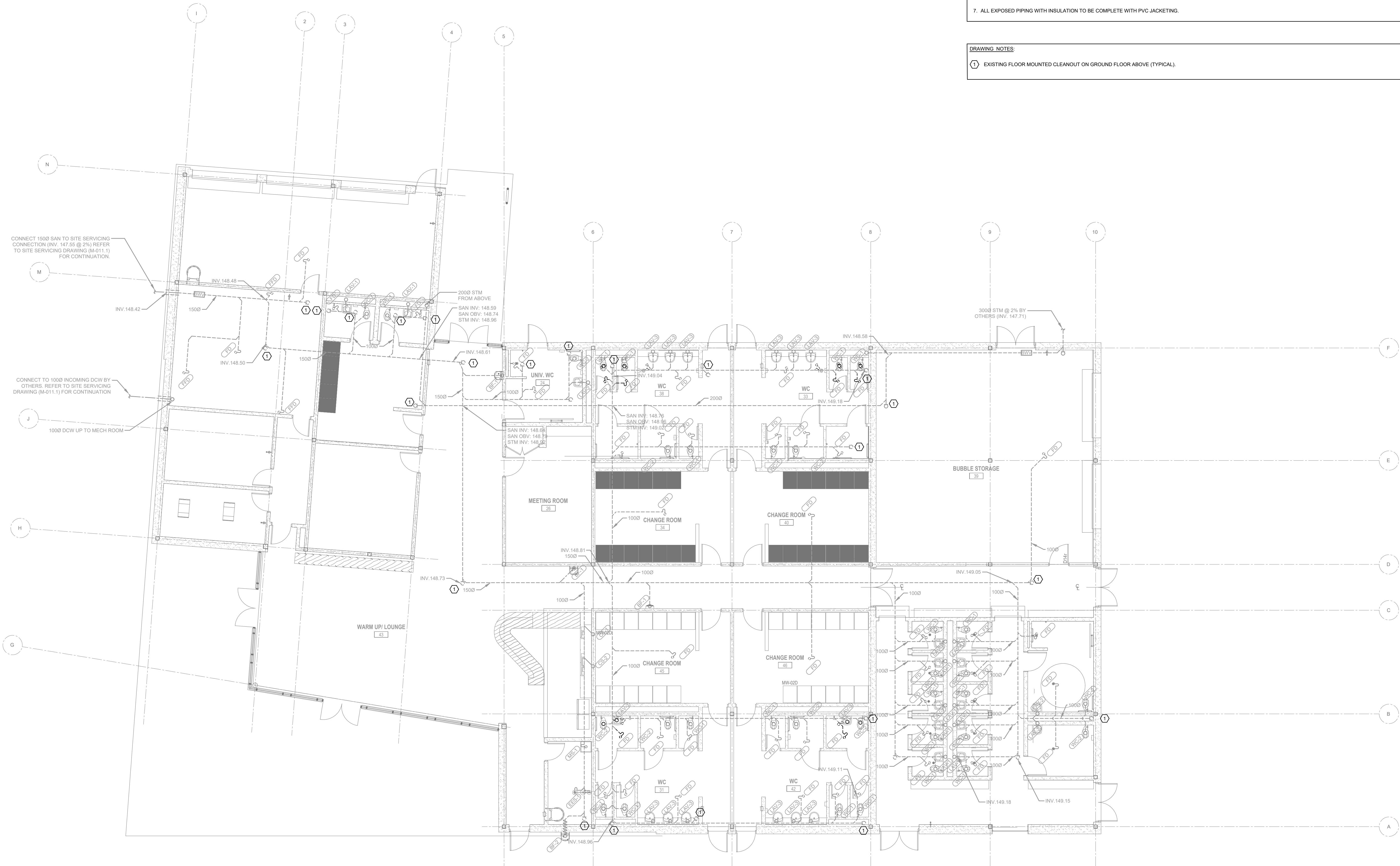
Address: 56 Centennial Park Rd. Toronto, ON

EAST VSTS ROOF GAME
PLUMBING & DRAINAGE -
SEPARATE PRICE 1

project no. : 2024-0112
scale : 1:100
date :

drawing no. :

M-112.1

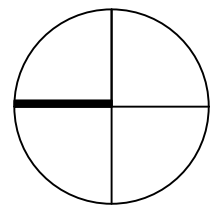


- GENERAL NOTES:**
1. SANITARY DRAIN PIPING TO BE AT MINIMUM 1% SLOPE, UNLESS OTHERWISE NOTED.
 2. ALL DIMENSIONS AND ELEVATIONS ARE TO BE CHECKED AND VERIFIED ON SITE BY THE CONTRACTOR AND DISCREPANCIES REPORTED PRIOR TO THE START OF WORK.
 3. ALL FOUNDATION PLUMBING TO BE PVC.
 4. PROVIDE COMPLETE SANITARY VENT SYSTEM IN ACCORDANCE WITH THE OBC.
 5. PROVIDE CLEANOUTS ON ALL DRAINAGE AND WASTE SYSTEMS, NOT LIMITED TO CLEANOUTS SHOWN ON THE DRAWINGS.
 6. ALL FLOOR DRAIN P-TRAPS SHALL BE PRIMED FROM A CENTRAL ELECTRONIC TRAP SEAL PRIMER. DIVISION 22 CONTRACTOR MUST COORDINATE WITH ELECTRICAL TRADE FOR CIRCUIT LOCATIONS DURING SHOP DRAWING STAGE, OTHERWISE DIVISION 22 TRADE WILL BE RESPONSIBLE FOR ALL COSTS ASSOCIATED WITH CIRCUIT WIRING.
 7. ALL EXPOSED PIPING WITH INSULATION TO BE COMPLETE WITH PVC JACKETING.

- DRAWING NOTES:**
- ① EXISTING FLOOR MOUNTED CLEANOUT ON GROUND FLOOR ABOVE (TYPICAL).



ISSUED FOR TENDER	2024-11-08
ISSUED FOR PROGRESS	2024-08-31
ISSUED FOR PROGRESS	2024-08-15
revision	02/01



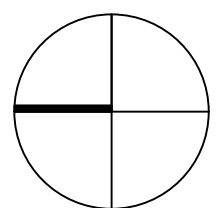
FIFA - EAST VSTS
CENTENNIAL PARK
Address: 56 Centennial Park Rd, Toronto, ON

EAST VSTS BELOW GRADE
LEGACY PLUMBING &
DRAINAGE - SEPARATE PRICE
1

project no. : 2024-0112
scale : 1:100
date :

drawing no. :

M-113.1



FIFA - EAST VSTS
CENTENNIAL PARK

Address: 56 Centennial Park Rd, Toronto, ON

EAST VSTS GROUND FLOOR
LEGACY PLAN
PLUMBING & DRAINAGE -
SEPARATE PRICE 1

project no. : 2024-0112
scale : 1:100
date :

drawing no. :

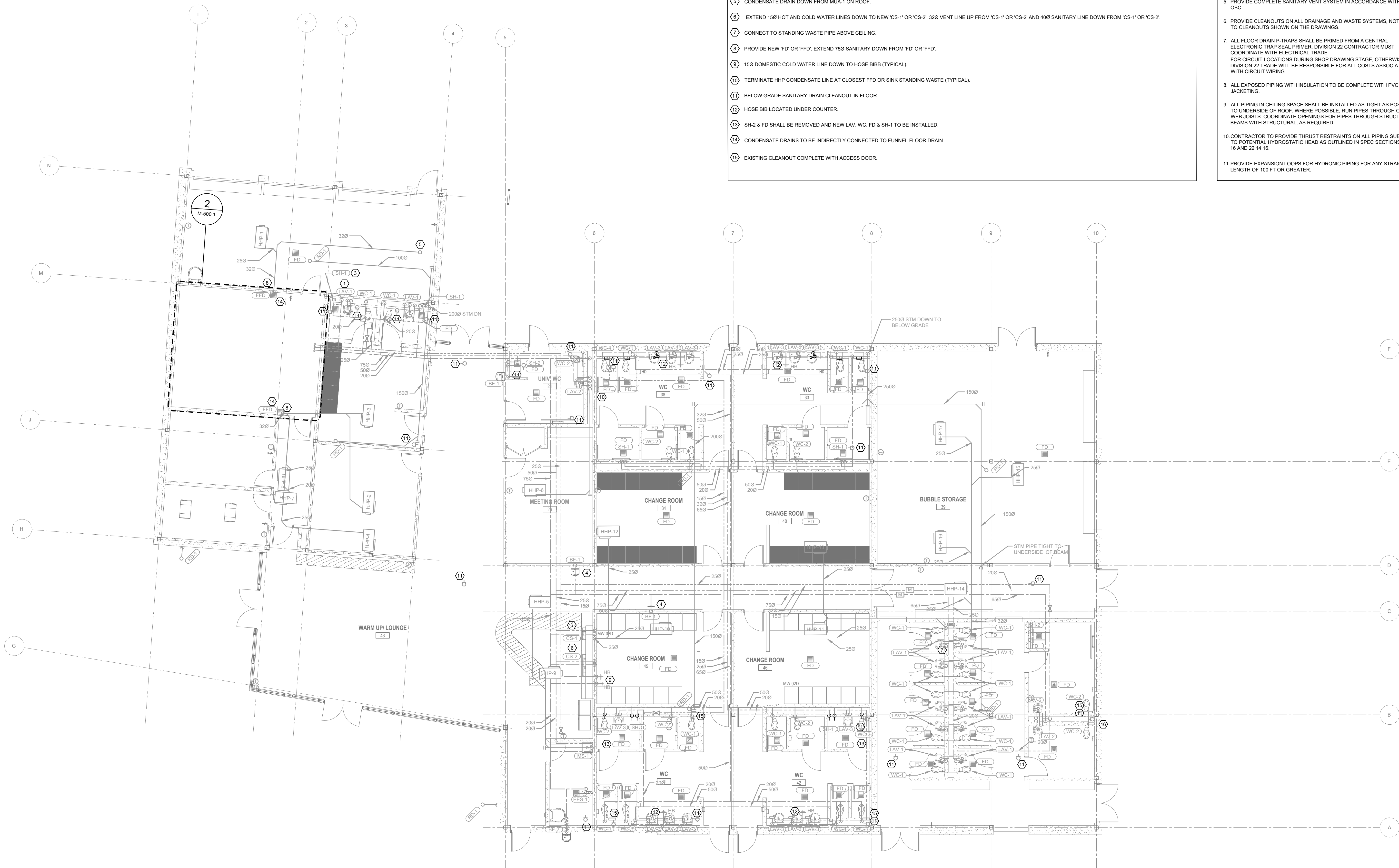
M-114.1

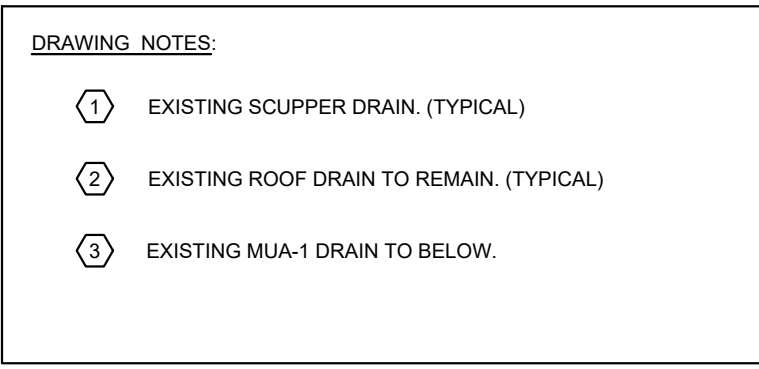
DRAWING NOTES:

1. EXTEND 150 HOT AND COLD WATER LINES DOWN TO NEW 'LAV-1', 'LAV-2', OR 'LAV-3', 320 VENT LINE UP FROM 'LAV-1', 'LAV-2', OR 'LAV-3', AND 400 SANITARY LINE DOWN FROM 'LAV-1', 'LAV-2', OR 'LAV-3' (TYPICAL).
2. EXTEND 250 COLD WATER LINE DOWN TO NEW 'WC-1' OR 'WC-2', 500 VENT LINE UP FROM 'WC-1' OR 'WC-2', AND 750 SANITARY LINE DOWN FROM 'WC-1' OR 'WC-2'. (TYPICAL)
3. EXTEND 150 HOT AND COLD WATER LINES DOWN TO NEW 'SH-1' OR 'SH-2' AND 320 VENT LINE UP FROM 'SH-1' OR 'SH-2' (TYPICAL).
4. PROVIDE NEW BOTTLE FILLER, 'BF-1' AS SPECIFIED. EXTEND NEW 150 COLD WATER LINE TO NEW BOTTLE FILLER 'BF-1', 320 VENT LINE UP FROM 'BF-1', AND 400 SANITARY LINE DOWN FROM 'BF-1'. (TYPICAL)
5. CONDENSATE DRAIN DOWN FROM MUA-1 ON ROOF.
6. EXTEND 150 HOT AND COLD WATER LINES DOWN TO NEW 'CS-1' OR 'CS-2', 320 VENT LINE UP FROM 'CS-1' OR 'CS-2' AND 400 SANITARY LINE DOWN FROM 'CS-1' OR 'CS-2'.
7. CONNECT TO STANDING WASTE PIPE ABOVE CEILING.
8. PROVIDE NEW 'FD' OR 'FFD'. EXTEND 750 SANITARY DOWN FROM 'FD' OR 'FFD'.
9. 150 DOMESTIC COLD WATER LINE DOWN TO HOSE BIBB (TYPICAL).
10. TERMINATE HHP CONDENSATE LINE AT CLOSEST FFD OR SINK STANDING WASTE (TYPICAL).
11. BELOW GRADE SANITARY DRAIN CLEANOUT IN FLOOR.
12. HOSE BIB LOCATED UNDER COUNTER.
13. SH-2 & FD SHALL BE REMOVED AND NEW LAV, WC, FD & SH-1 TO BE INSTALLED.
14. CONDENSATE DRAINS TO BE INDIRECTLY CONNECTED TO FUNNEL FLOOR DRAIN.
15. EXISTING CLEANOUT COMPLETE WITH ACCESS DOOR.

GENERAL NOTES:

1. SANITARY DRAIN PIPING TO BE AT MINIMUM 1% SLOPE, UNLESS OTHERWISE NOTED.
2. CONTRACTOR SHOULD REFER TO REFLECTED CEILING PLAN FOR COORDINATION WITH MECHANICAL SERVICE AND DEVICES.
3. ALL DIMENSIONS AND ELEVATIONS ARE TO BE CHECKED AND VERIFIED ON SITE BY THE CONTRACTOR AND DISCREPANCIES REPORTED PRIOR TO THE START OF WORK.
4. ALL FOUNDATION PLUMBING TO BE PVC.
5. PROVIDE COMPLETE SANITARY VENT SYSTEM IN ACCORDANCE WITH THE OBC.
6. PROVIDE CLEANOUTS ON ALL DRAINAGE AND WASTE SYSTEMS, NOT LIMITED TO CLEANOUTS SHOWN ON THE DRAWINGS.
7. ALL FLOOR DRAIN P-TRAPS SHALL BE PRIMED FROM A CENTRAL ELECTRONIC TRAP SEAL PRIMER. DIVISION 22 CONTRACTOR MUST COORDINATE WITH ELECTRICAL TRADE FOR CIRCUIT LOCATIONS DURING SHOP DRAWING STAGE. OTHERWISE DIVISION 22 TRADE WILL BE RESPONSIBLE FOR ALL COSTS ASSOCIATED WITH CIRCUIT WIRING.
8. ALL EXPOSED PIPING WITH INSULATION TO BE COMPLETE WITH PVC JACKETING.
9. ALL PIPING IN CEILING SPACE SHALL BE INSTALLED AS TIGHT AS POSSIBLE TO UNDERSIDE OF ROOF. WHERE POSSIBLE, RUN PIPES THROUGH OPEN WEB JOISTS. COORDINATE OPENINGS FOR PIPES THROUGH STRUCTURAL BEAMS WITH STRUCTURAL, AS REQUIRED.
10. CONTRACTOR TO PROVIDE THRUST RESTRAINTS ON ALL PIPING SUBJECT TO POTENTIAL HYDROSTATIC HEAD AS OUTLINED IN SPEC SECTIONS 22 13 16 AND 22 14 16.
11. PROVIDE EXPANSION LOOPS FOR HYDRONIC PIPING FOR ANY STRAIGHT LENGTH OF 100 FT OR GREATER.





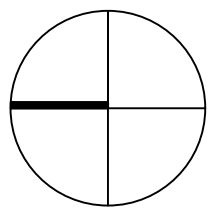
M-115.1



- GENERAL NOTES:**
1. SPRINKLER HEAD LAYOUTS INDICATED SHOW GENERAL INTENT AND ARE FOR COORDINATION PURPOSES. COORDINATE EXACT LAYOUT WITH REFLECTED CEILING AND WORK OF OTHER TRADES.
 2. CONTRACTOR SHOULD REFER TO REFLECTED CEILING PLAN FOR COORDINATION WITH MECHANICAL SERVICE AND DEVICES.
- DRAWING NOTES:**
- 1 PROVIDE NEW FIRE EXTINGUISHER AS SHOWN. MOUNT FIRE EXTINGUISHER WITH REQUIRED BRACKETS. EXACT LOCATION TO BE DETERMINED ON SITE. (TYPICAL).
 - 2 PROVIDE NEW FIRE EXTINGUISHER IN RECESSED WALL CABINET. EXACT LOCATION TO BE DETERMINED ON SITE WITH ARCHITECT. (TYPICAL).
 - 3 PROVIDE NEW FIRE EXTINGUISHER IN SURFACE MOUNTED WALL CABINET. EXACT LOCATION TO BE DETERMINED ON SITE WITH ARCHITECT. (TYPICAL).



ISSUED FOR TENDER	2024-11-08
ISSUED FOR PROGRESS	2024-08-23
ISSUED FOR PROGRESS	2024-08-15
ISSUED FOR COORDINATION	2024-07-30
ISSUED FOR CLASS C COSTING	2024-06-28
revision	000



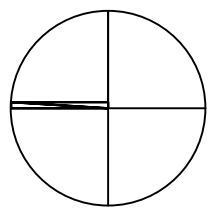
FIFA - EAST VSTS
CENTENNIAL PARK
Address: 56 Centennial Park Rd. Toronto, ON

EAST VSTS GROUND GAME
FLOOR PLAN
FIRE PROTECTION -
SEPARATE PRICE 1

project no. : 2024-0112
scale : 1:100
date :

drawing no. :

M-211.1



FIFA - EAST VSTS
CENTENNIAL PARK

Address: 56 Centennial Park Rd. Toronto, ON

EAST VSTS GROUND FLOOR
GAME
HVAC - SEPARATE PRICE 1

project no. : 2024-0112
scale : 1:100
date :

drawing no. :

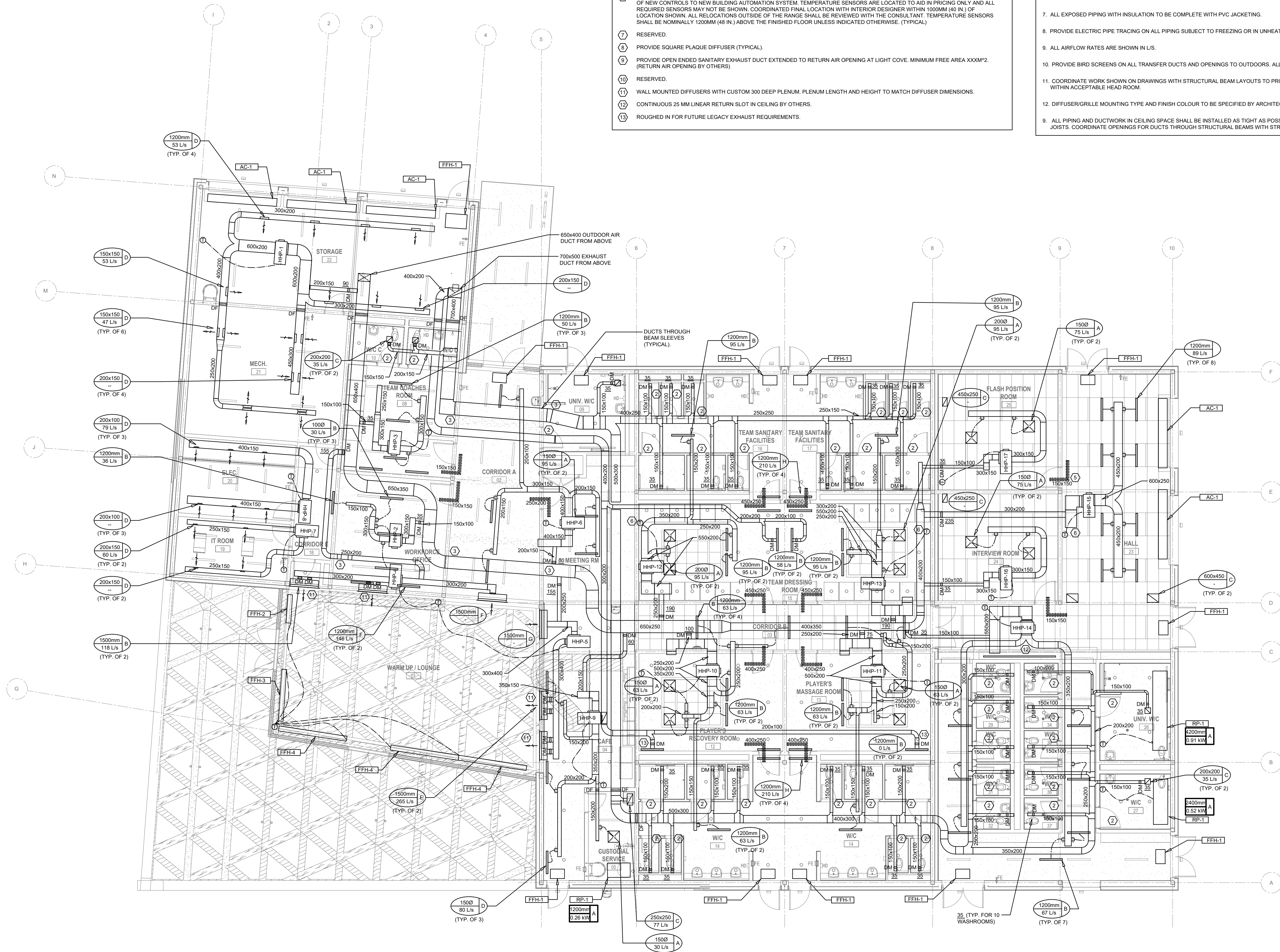
M-311.1

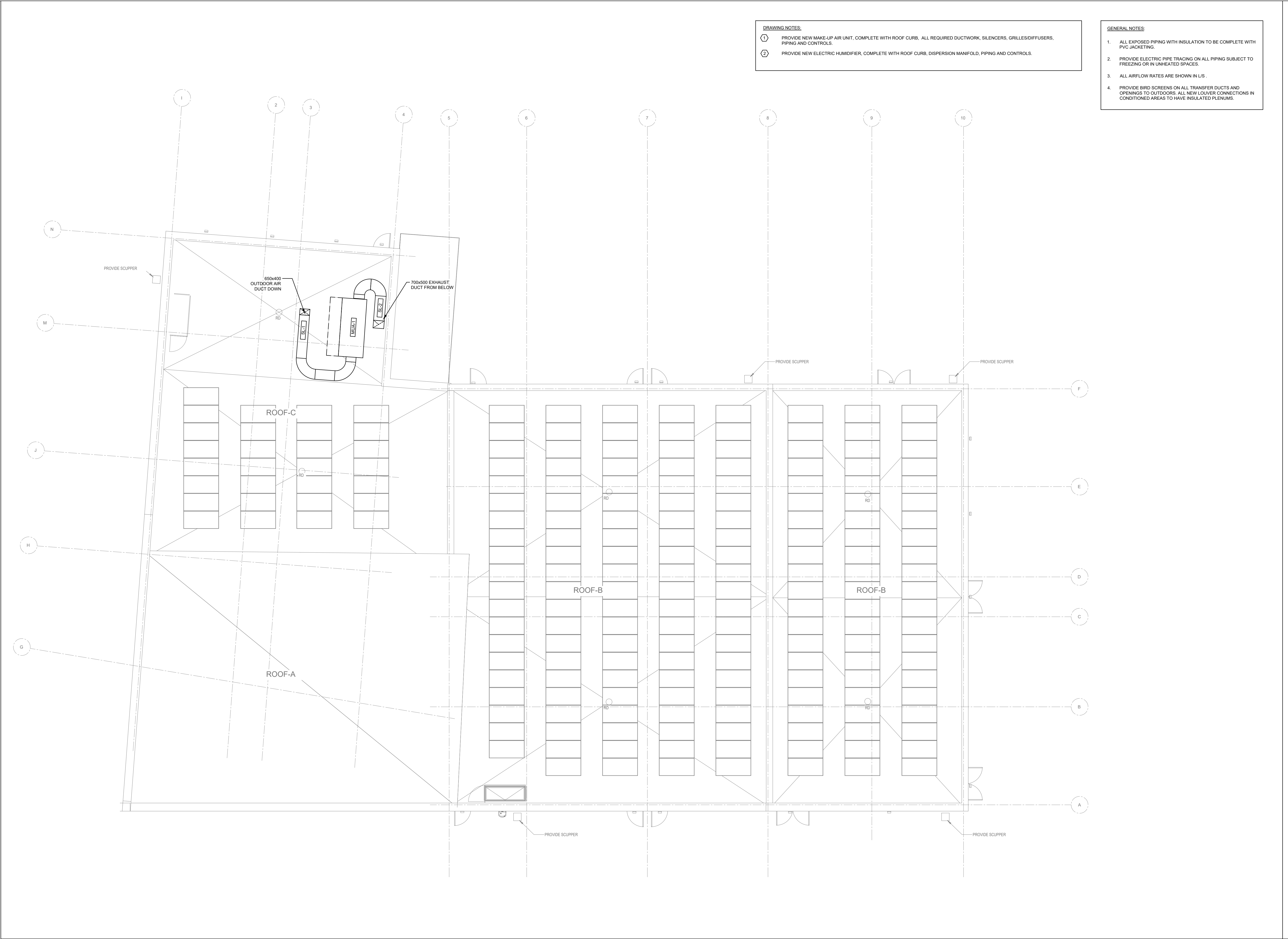
DRAWING NOTES:

1. PROVIDE 300x250 TYPE 'C' RETURN AIR GRILLES TYPICAL UNLESS NOTED OTHERWISE. (TYPICAL)
2. DOOR SHALL BE UNDERCUT BY 1 IN FOR TRANSFER AIR. NOT BY DIVISION 23.
3. DUCT LEVEL TO CHANGE TO ACCOMMODATE CEILING HEIGHT TRANSITION.
4. PROVIDE NEW HORIZONTAL HEAT PUMP IN CEILING SPACE COMPLETE WITH WATER TIGHT DRIP PAN, ASSOCIATED CONTROLS, SUPPLY AND RETURN WATER LINES, METERS, DUCTWORK, HANGERS AND SUPPORTS. CONTRACTOR TO INSTALL NECESSARY FILTERS AT COMPLETION OF MECHANICAL WORK. (TYPICAL)
5. PROVIDE AND INSTALL NEW ACOUSTICALLY LINED TRANSFER AIR DUCT. FINAL LOCATION AND QUANTITY OF TRANSFER AIR DUCTS TO SUIT SITE CONDITIONS. (TYPICAL)
6. CONTROLS CONTRACTOR TO PROVIDE AND INSTALL NEW TEMPERATURE SENSOR FOR SPACE HEAT PUMPS. ALLOW FOR INTEGRATION OF NEW CONTROLS TO NEW BUILDING AUTOMATION SYSTEM. TEMPERATURE SENSORS ARE LOCATED TO AID IN PRICING ONLY AND ALL REQUIRED SENSORS MAY NOT BE SHOWN. COORDINATED FINAL LOCATION WITH INTERIOR DESIGNER WITHIN 1000MM (40 IN.) OF LOCATION SHOWN. ALL RELOCATIONS OUTSIDE OF THE RANGE SHALL BE REVIEWED WITH THE CONSULTANT. TEMPERATURE SENSORS SHALL BE NOMINALLY 1200MM (48 IN.) ABOVE THE FINISHED FLOOR UNLESS INDICATED OTHERWISE. (TYPICAL)
7. RESERVED.
8. PROVIDE SQUARE PLAQUE DIFFUSER (TYPICAL).
9. PROVIDE OPEN ENDED SANITARY EXHAUST DUCT EXTENDED TO RETURN AIR OPENING AT LIGHT COVE. MINIMUM FREE AREA XXXM². (RETURN AIR OPENING BY OTHERS)
10. RESERVED.
11. WALL MOUNTED DIFFUSERS WITH CUSTOM 300 DEEP PLENUM. PLENUM LENGTH AND HEIGHT TO MATCH DIFFUSER DIMENSIONS.
12. CONTINUOUS 25 MM LINEAR RETURN SLOT IN CEILING BY OTHERS.
13. ROUGHED IN FOR FUTURE LEGACY EXHAUST REQUIREMENTS.

GENERAL NOTES:

1. CONTRACTOR SHOULD REFER TO REFLECTED CEILING PLAN FOR COORDINATION WITH MECHANICAL EQUIPMENT.
2. CONTRACTOR TO CALIBRATE ALL NEW THERMOSTATS AT COMPLETION OF MECHANICAL WORK.
3. CONTRACTOR TO ENSURE THAT NEW TAKEOFFS ARE EQUIPPED WITH BALANCING DAMPERS. PROVIDE TAKEOFFS WITH BALANCING DAMPERS FOR EXISTING TAKEOFFS.
4. CONTRACTOR SHALL BALANCE ALL ASSOCIATED DUCT SYSTEMS TO SUIT THE NEW AIR QUANTITIES.
5. PROVIDE ADEQUATELY SIZED ACCESS PANELS FOR ALL DAMPERS, SENSORS, AND OTHER DEVICES MOUNTED WITHIN DUCTS.
6. CONTRACTOR TO COORDINATE FIRE DAMPER LOCATIONS WITH ARCHITECT'S FIRE SEPARATION PLAN.
7. ALL EXPOSED PIPING WITH INSULATION TO BE COMPLETE WITH PVC JACKETING.
8. PROVIDE ELECTRIC PIPE TRACING ON ALL PIPING SUBJECT TO FREEZING OR IN UNHEATED SPACES.
9. ALL AIRFLOW RATES ARE SHOWN IN L/S.
10. PROVIDE BIRD SCREENS ON ALL TRANSFER DUCTS AND OPENINGS TO OUTDOORS. ALL NEW LOUVER CONNECTIONS IN CONDITIONED AREAS TO HAVE INSULATED PLENUMS.
11. COORDINATE WORK SHOWN ON DRAWINGS WITH STRUCTURAL BEAM LAYOUTS TO PROVIDE PIPE SLEEVE AND/OR DUCT OPENINGS NECESSARY TO MAINTAIN MECHANICAL WORK WITHIN ACCEPTABLE HEAD ROOM.
12. DIFFUSER/GRILLE MOUNTING TYPE AND FINISH COLOUR TO BE SPECIFIED BY ARCHITECT.
9. ALL PIPING AND DUCTWORK IN CEILING SPACE SHALL BE INSTALLED AS TIGHT AS POSSIBLE TO UNDERSIDE OF FLOOR SLAB. WHERE POSSIBLE, RUN DUCTS THROUGH OPEN WEB JOISTS. COORDINATE OPENINGS FOR DUCTS THROUGH STRUCTURAL BEAMS WITH STRUCTURAL, AS REQUIRED.



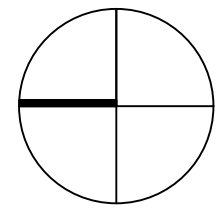


- DRAWING NOTES:**
1. PROVIDE NEW MAKE-UP AIR UNIT, COMPLETE WITH ROOF CURB, ALL REQUIRED DUCTWORK, SILENCERS, GRILLES/DIFFUSERS, PIPING AND CONTROLS.
 2. PROVIDE NEW ELECTRIC HUMIDIFIER, COMPLETE WITH ROOF CURB, DISPERSION MANFOLD, PIPING AND CONTROLS.

- GENERAL NOTES:**
1. ALL EXPOSED PIPING WITH INSULATION TO BE COMPLETE WITH PVC JACKETING.
 2. PROVIDE ELECTRIC PIPE TRACING ON ALL PIPING SUBJECT TO FREEZING OR IN UNHEATED SPACES.
 3. ALL AIRFLOW RATES ARE SHOWN IN L/S.
 4. PROVIDE BIRD SCREENS ON ALL TRANSFER DUCTS AND OPENINGS TO OUTDOORS. ALL NEW LOUVER CONNECTIONS IN CONDITIONED AREAS TO HAVE INSULATED PLENUMS.



ISSUED FOR TENDER	2024-11-08
ISSUED FOR PROGRESS	2024-08-23
ISSUED FOR PROGRESS	2024-08-15
ISSUED FOR COORDINATION	2024-07-30
ISSUED FOR CLASS C COSTING	2024-06-28
revision	0800



**FIFA - EAST VSTS
CENTENNIAL PARK**

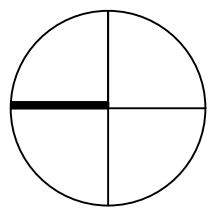
Address: 56 Centennial Park Rd, Toronto, ON

**EAST VSTS ROOF GAME PLAN
HVAC - SEPARATE PRICE 1**

project no. : 2024-0112
scale : 1:100
date :

drawing no. :

M-312.1



FIFA - EAST VSTS
CENTENNIAL PARK

Address: 56 Centennial Park Rd. Toronto, ON

EAST VSTS GROUND LEGACY
FLOOR HVAC - SEPARATE
PRICE 1

project no. : 2024-0112
scale : 1:100
date :

drawing no. :

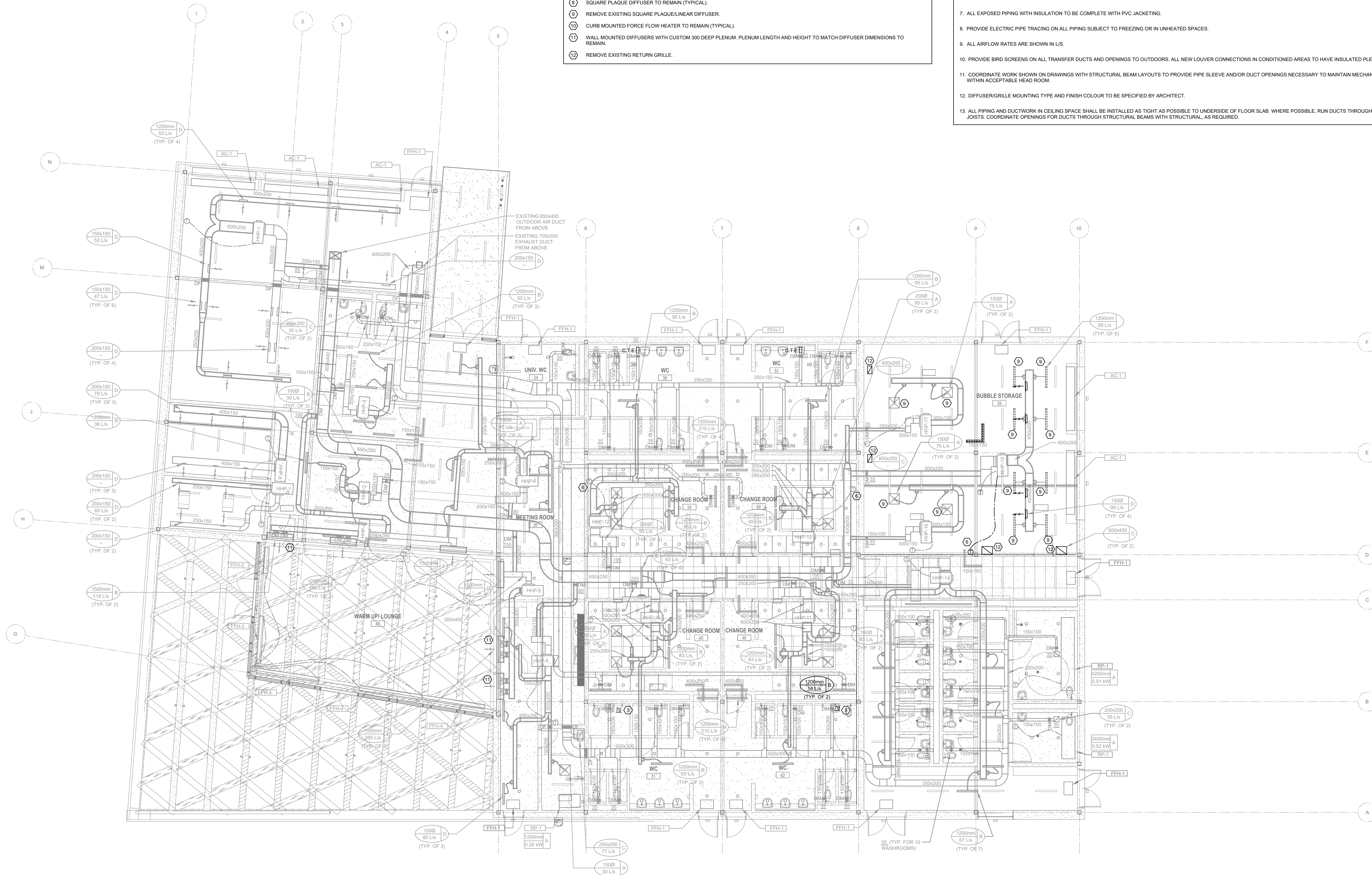
M-313.1

DRAWING NOTES:

1. RETURN AIR GRILLE TO REMAIN (TYPICAL)
2. RESERVED.
3. BALANCE GRILLE TO AIRFLOW SHOWN. (TYPICAL)
4. HORIZONTAL HEAT PUMP TO REMAIN (TYPICAL)
5. TRANSFER AIR DUCT TO REMAIN (TYPICAL)
6. TEMPERATURE SENSOR TO REMAIN (TYPICAL)
7. PROVIDE NEW TEMPERATURE SENSOR (TYPICAL).
8. SQUARE PLAQUE DIFFUSER TO REMAIN (TYPICAL).
9. REMOVE EXISTING SQUARE PLAQUE/LINEAR DIFFUSER.
10. CURB MOUNTED FORCE FLOW HEATER TO REMAIN (TYPICAL).
11. WALL MOUNTED DIFFUSERS WITH CUSTOM 300 DEEP PLENUM. PLENUM LENGTH AND HEIGHT TO MATCH DIFFUSER DIMENSIONS TO REMAIN.
12. REMOVE EXISTING RETURN GRILLE.

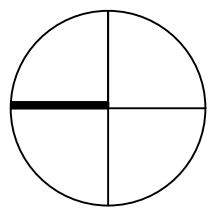
GENERAL NOTES:

1. CONTRACTOR SHOULD REFER TO REFLECTED CEILING PLAN FOR COORDINATION WITH MECHANICAL EQUIPMENT.
2. CONTRACTOR TO CALIBRATE ALL NEW THERMOSTATS AT COMPLETION OF MECHANICAL WORK.
3. CONTRACTOR TO ENSURE THAT NEW TAKEOFFS ARE EQUIPPED WITH BALANCING DAMPERS. PROVIDE TAKEOFFS WITH BALANCING DAMPERS FOR EXISTING TAKEOFFS.
4. CONTRACTOR SHALL BALANCE ALL ASSOCIATED DUCT SYSTEMS TO SUIT THE NEW AIR QUANTITIES.
5. PROVIDE ADEQUATELY SIZED ACCESS PANELS FOR ALL DAMPERS, SENSORS, AND OTHER DEVICES MOUNTED WITHIN DUCTS.
6. CONTRACTOR TO COORDINATE FIRE DAMPER LOCATIONS WITH ARCHITECT'S FIRE SEPARATION PLAN.
7. ALL EXPOSED PIPING WITH INSULATION TO BE COMPLETE WITH PVC JACKETING.
8. PROVIDE ELECTRIC PIPE TRACING ON ALL PIPING SUBJECT TO FREEZING OR IN UNHEATED SPACES.
9. ALL AIRFLOW RATES ARE SHOWN IN L/S.
10. PROVIDE BIRD SCREENS ON ALL TRANSFER DUCTS AND OPENINGS TO OUTDOORS. ALL NEW LOUVER CONNECTIONS IN CONDITIONED AREAS TO HAVE INSULATED PLENUMS.
11. COORDINATE WORK SHOWN ON DRAWINGS WITH STRUCTURAL BEAM LAYOUTS TO PROVIDE PIPE SLEEVE AND/OR DUCT OPENINGS NECESSARY TO MAINTAIN MECHANICAL WORK WITHIN ACCEPTABLE HEAD ROOM.
12. DIFFUSER/GRILLE MOUNTING TYPE AND FINISH COLOUR TO BE SPECIFIED BY ARCHITECT.
13. ALL PIPING AND DUCTWORK IN CEILING SPACE SHALL BE INSTALLED AS TIGHT AS POSSIBLE TO UNDERSIDE OF FLOOR SLAB. WHERE POSSIBLE, RUN DUCTS THROUGH OPEN WEB JOISTS. COORDINATE OPENINGS FOR DUCTS THROUGH STRUCTURAL BEAMS WITH STRUCTURAL, AS REQUIRED.





ISSUED FOR TENDER	2024-11-08
ISSUED FOR PROGRESS	2024-08-23
ISSUED FOR PROGRESS	2024-08-15
ISSUED FOR COORDINATION	2024-07-30
ISSUED FOR CLASS C COSTING	2024-06-28
revision	600



FIFA - EAST VSTS
CENTENNIAL PARK

Address: 56 Centennial Park Rd. Toronto, ON

EAST VSTS GROUND FLOOR
GAME
HVAC PIPING - SEPARATE
PRICE 1

project no. : 2024-0112
scale : 1:100
date :

drawing no. :

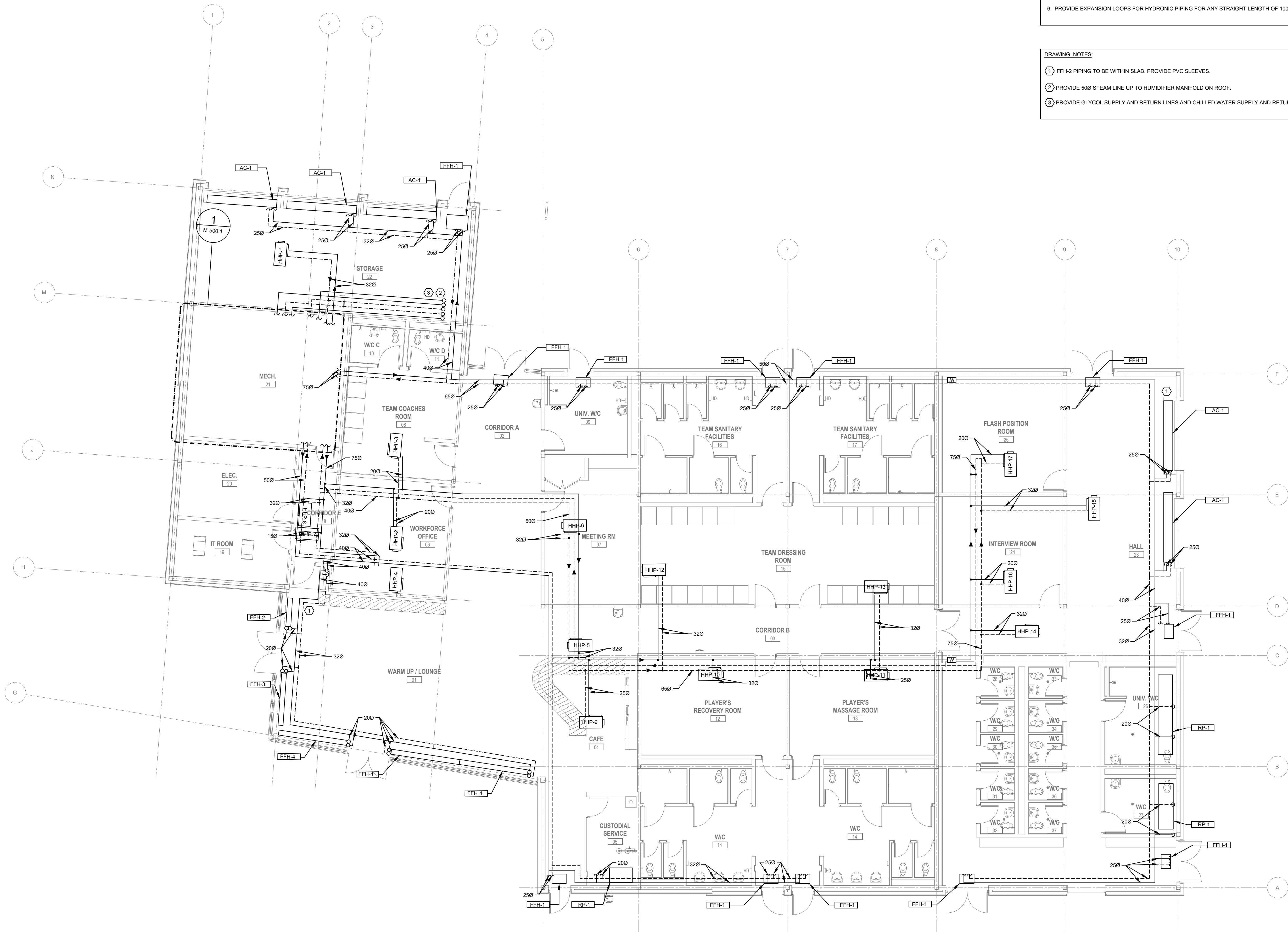
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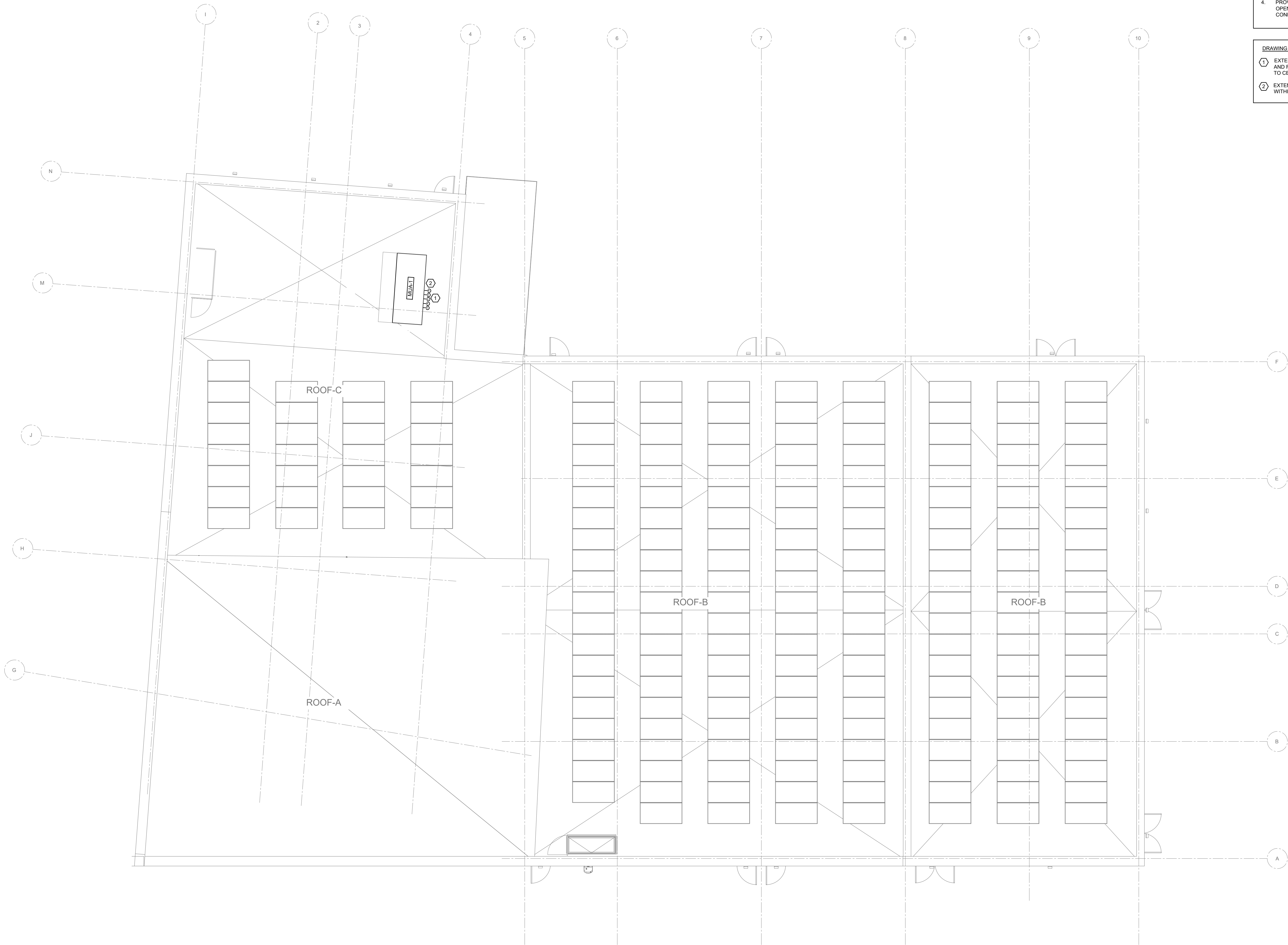
GENERAL NOTES:

1. CONTRACTOR SHOULD REFER TO REFLECTED CEILING PLAN FOR COORDINATION WITH MECHANICAL EQUIPMENT.
2. ALL EXPOSED PIPING WITH INSULATION TO BE COMPLETE WITH PVC JACKETING.
3. PROVIDE ELECTRIC PIPE TRACING ON ALL PIPING SUBJECT TO FREEZING OR IN UNHEATED SPACES.
4. COORDINATE WORK SHOWN ON DRAWINGS WITH STRUCTURAL BEAM LAYOUTS TO PROVIDE PIPE SLEEVE AND/OR DUCT OPENINGS NECESSARY TO MAINTAIN MECHANICAL WORK WITHIN ACCEPTABLE HEAD ROOM.
5. ALL PIPING AND DUCTWORK IN CEILING SPACE SHALL BE INSTALLED AS TIGHT AS POSSIBLE TO UNDERSIDE OF FLOOR SLAB. WHERE POSSIBLE, RUN PIPES THROUGH OPEN WEB JOISTS. COORDINATE OPENINGS FOR PIPES THROUGH STRUCTURAL BEAMS WITH STRUCTURAL, AS REQUIRED.
6. PROVIDE EXPANSION LOOPS FOR HYDRONIC PIPING FOR ANY STRAIGHT LENGTH OF 100 FT OR GREATER.

DRAWING NOTES:

- ① FFH-2 PIPING TO BE WITHIN SLAB. PROVIDE PVC SLEEVES.
- ② PROVIDE 500 STEAM LINE UP TO HUMIDIFIER MANIFOLD ON ROOF.
- ③ PROVIDE GLYCOL SUPPLY AND RETURN LINES AND CHILLED WATER SUPPLY AND RETURN LINES UP TO MUA ON ROOF





GENERAL NOTES:

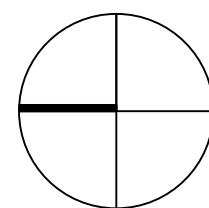
1. ALL EXPOSED PIPING WITH INSULATION TO BE COMPLETE WITH PVC JACKETING.
2. PROVIDE ELECTRIC PIPE TRACING ON ALL PIPING SUBJECT TO FREEZING OR IN UNHEATED SPACES.
3. ALL AIRFLOW RATES ARE SHOWN IN L/S.
4. PROVIDE BIRD SCREENS ON ALL TRANSFER DUCTS AND OPENINGS TO OUTDOORS. ALL NEW LOUVER CONNECTIONS IN CONDITIONED AREAS TO HAVE INSULATED PLENUMS.

DRAWING NOTES:

- ① EXTEND HEATING GLYCOL AND CHILLED WATER SUPPLY AND RETURN LINES FROM MAKE-UP AIR UNIT, MUA-1, DOWN TO CEILING SPACE BELOW.
- ② EXTEND 500 STEAM LINE TO HUMIDIFIER MANIFOLD WITHIN MUA-1.



ISSUED FOR TENDER	2024-11-08
ISSUED FOR PROGRESS	2024-09-27
ISSUED FOR PROGRESS	2024-09-15
ISSUED FOR COORDINATION	2024-07-30
revision	draw



FIFA - EAST VSTS
CENTENNIAL PARK

Address: 56 Centennial Park Rd, Toronto, ON

EAST VSTS ROOF GAME PLAN
HVAC PIPING - SEPARATE
PRICE 1

project no. : 2024-0112

scale : 1:100

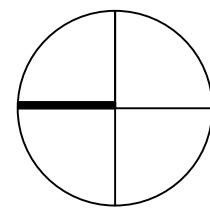
date :

drawing no. :

M-412.1



ISSUED FOR TENDER	2024-11-08
ISSUED FOR PROGRESS	2024-08-22
ISSUED FOR PROGRESS	2024-09-15
ISSUED FOR COORDINATION	2024-07-30
revision	date



FIFA - EAST VSTS
CENTENNIAL PARK

Address: 56 Centennial Park Rd. Toronto, ON

EAST VSTS GROUND LEGACY
FLOOR HVAC PIPING -
SEPARATE PRICE 1

project no. : 2024-0112
scale : 1:100
date :

drawing no. :

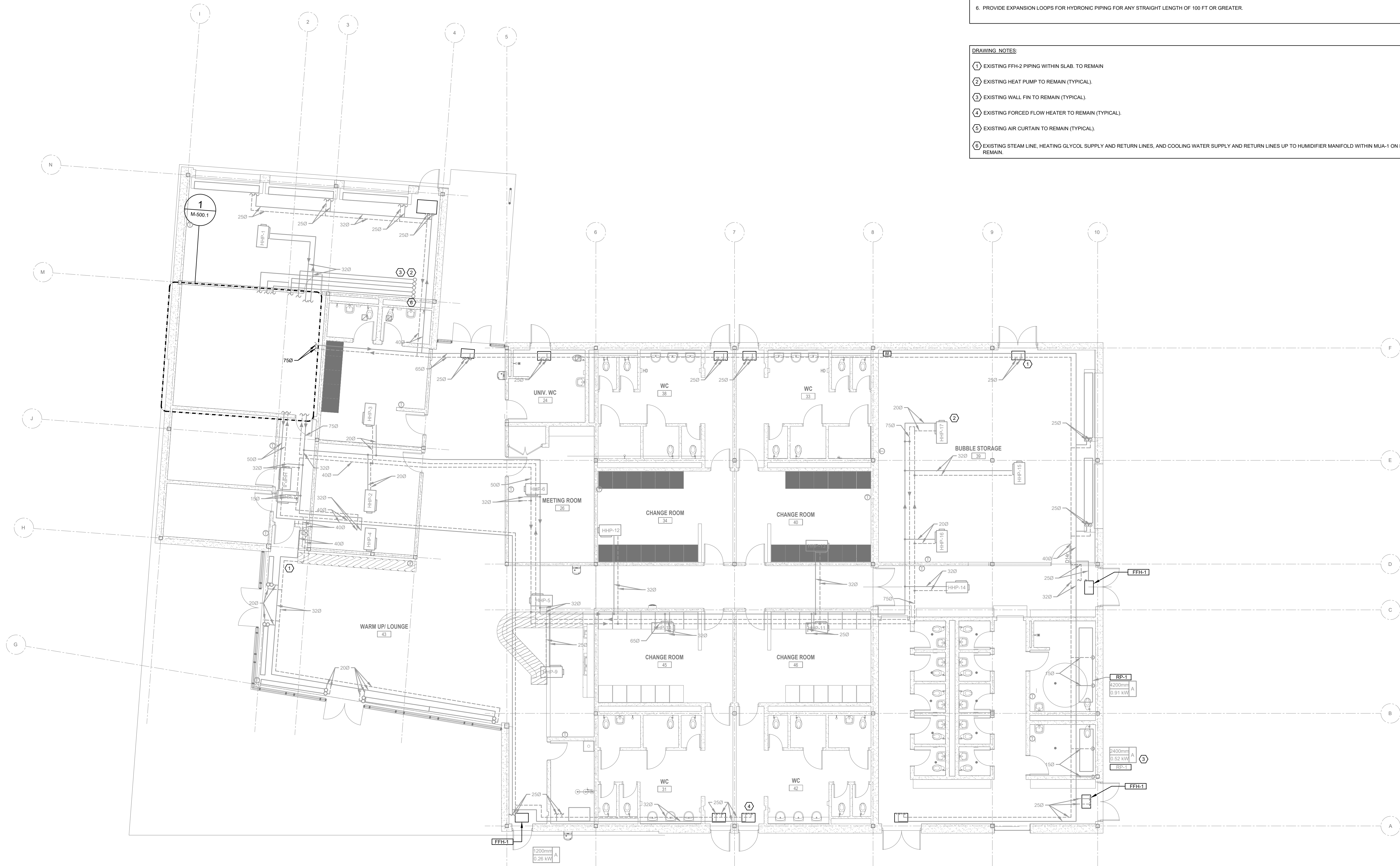
M-413.1

GENERAL NOTES:

1. CONTRACTOR SHOULD REFER TO REFLECTED CEILING PLAN FOR COORDINATION WITH MECHANICAL EQUIPMENT.
2. ALL EXPOSED PIPING WITH INSULATION TO BE COMPLETE WITH PVC JACKETING.
3. PROVIDE ELECTRIC PIPE TRACING ON ALL PIPING SUBJECT TO FREEZING OR IN UNHEATED SPACES.
4. COORDINATE WORK SHOWN ON DRAWINGS WITH STRUCTURAL BEAM LAYOUTS TO PROVIDE PIPE SLEEVE AND/OR DUCT OPENINGS NECESSARY TO MAINTAIN MECHANICAL WORK WITHIN ACCEPTABLE HEAD ROOM.
5. ALL PIPING AND DUCTWORK IN CEILING SPACE SHALL BE INSTALLED AS TIGHT AS POSSIBLE TO UNDERSIDE OF FLOOR SLAB. WHERE POSSIBLE, RUN PIPES THROUGH OPEN WEB JOISTS. COORDINATE OPENINGS FOR PIPES THROUGH STRUCTURAL BEAMS WITH STRUCTURAL, AS REQUIRED.
6. PROVIDE EXPANSION LOOPS FOR HYDRONIC PIPING FOR ANY STRAIGHT LENGTH OF 100 FT OR GREATER.

DRAWING NOTES:

- ① EXISTING FFH-2 PIPING WITHIN SLAB. TO REMAIN
- ② EXISTING HEAT PUMP TO REMAIN (TYPICAL).
- ③ EXISTING WALL FIN TO REMAIN (TYPICAL).
- ④ EXISTING FORCED FLOW HEATER TO REMAIN (TYPICAL).
- ⑤ EXISTING AIR CURTAIN TO REMAIN (TYPICAL).
- ⑥ EXISTING STEAM LINE, HEATING GLYCOL SUPPLY AND RETURN LINES, AND COOLING WATER SUPPLY AND RETURN LINES UP TO HUMIDIFIER MANIFOLD WITHIN MUA-1 ON ROOF TO REMAIN.

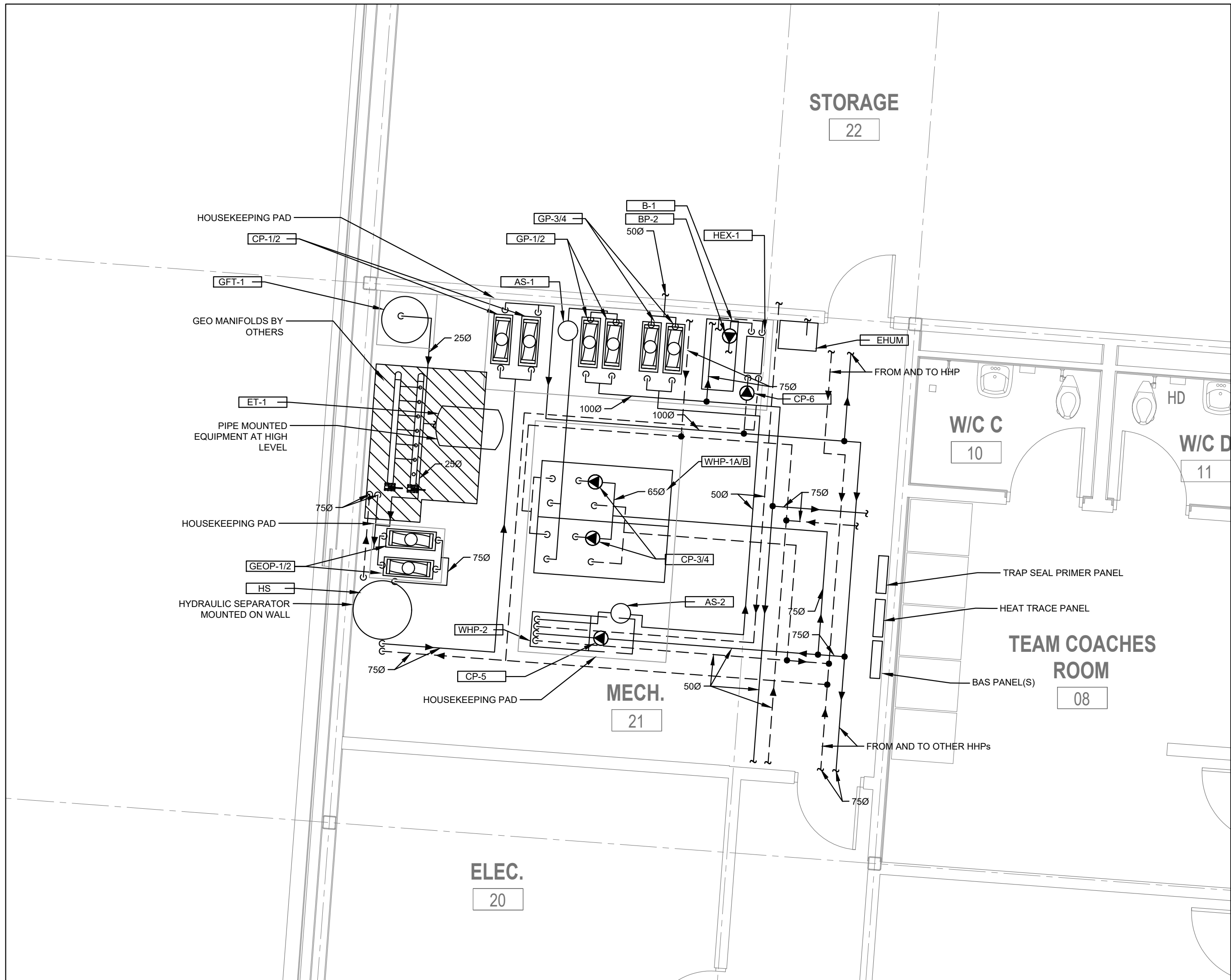


GENERAL NOTES:

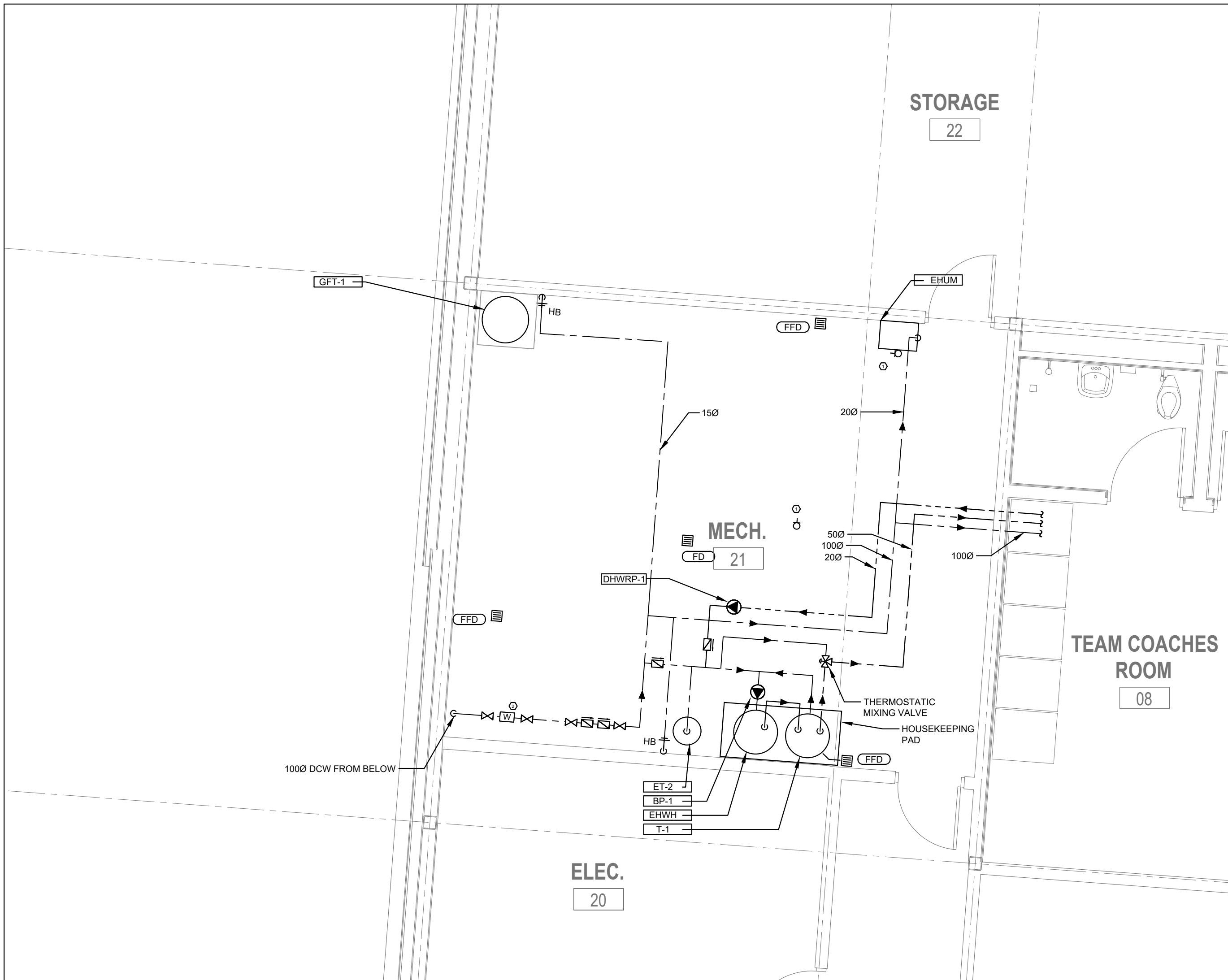
1. SANITARY DRAIN PIPING TO BE AT MINIMUM 1% SLOPE, UNLESS OTHERWISE NOTED.
2. CONTRACTOR SHOULD REFER TO REFLECTED CEILING PLAN FOR COORDINATION WITH MECHANICAL SERVICE AND DEVICES.
3. ALL DIMENSIONS AND ELEVATIONS ARE TO BE CHECKED AND VERIFIED ON SITE BY THE CONTRACTOR AND DISCREPANCIES REPORTED PRIOR TO THE START OF WORK.
4. ALL FOUNDATION PLUMBING TO BE PVC.
5. PROVIDE COMPLETE SANITARY VENT SYSTEM IN ACCORDANCE WITH THE OBC.
6. PROVIDE CLEANOUTS ON ALL DRAINAGE AND WASTE SYSTEMS, NOT LIMITED TO CLEANOUTS SHOWN ON THE DRAWINGS.
7. ALL FLOOR DRAIN P-TRAPS SHALL BE PRIMED FROM A CENTRAL ELECTRONIC TRAP SEAL PRIMER, DIVISION 22 CONTRACTOR MUST COORDINATE WITH ELECTRICAL TRADE FOR CIRCUIT LOCATIONS DURING SCOPE DRAWING STAGE, OTHERWISE DIVISION 22 TRADE WILL BE RESPONSIBLE FOR ALL COSTS ASSOCIATED WITH CIRCUIT WIRING.
8. ALL EXPOSED PIPING WITH INSULATION TO BE COMPLETE WITH PVC JACKETING.
9. ALL PIPING IN CEILING SPACE SHALL BE INSTALLED AS TIGHT AS POSSIBLE TO UNDERSIDE OF ROOF.
10. CONTRACTOR TO PROVIDE THRUST RESTRAINTS ON ALL PIPING SUBJECT TO POTENTIAL HYDROSTATIC HEAD AS OUTLINED IN SPEC SECTIONS 22 13 16 AND 22 14 16.
11. COORDINATE WORK SHOWN ON DRAWINGS WITH STRUCTURAL BEAM LAYOUTS TO PROVIDE PIPE SLEEVE AND/OR DUCT OPENINGS NECESSARY TO MAINTAIN MECHANICAL WORK WITHIN ACCEPTABLE HEAD ROOM.

DRAWING NOTES:

1. BELOW GRADE SANITARY DRAIN CLEANOUT IN FLOOR.
2. WATER METER TO BE RELOCATED FROM IRRIGATION BUNKER (OUTSIDE OF BUILDING) TO WITHIN BUILDING MECHANICAL ROOM DURING CONSTRUCTION.

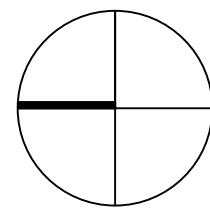


1 HVAC PIPING MECHANICAL ROOM PART PLAN
M-500.1 SCALE: 1:50



2 PLUMBING & DRAINAGE MECHANICAL ROOM PART PLAN
M-500.1 SCALE: 1:50

ISSUED FOR TENDER	2024-11-08
ISSUED FOR PROGRESS	2024-09-23
ISSUED FOR PROGRESS	2024-09-15
revision	690



FIFA - EAST VSTS
CENTENNIAL PARK

Address: 56 Centennial Park Rd. Toronto, ON

EAST VSTS GROUND FLOOR
MECHANICAL ROOM PART
PLAN - SEPARATE PRICE 1

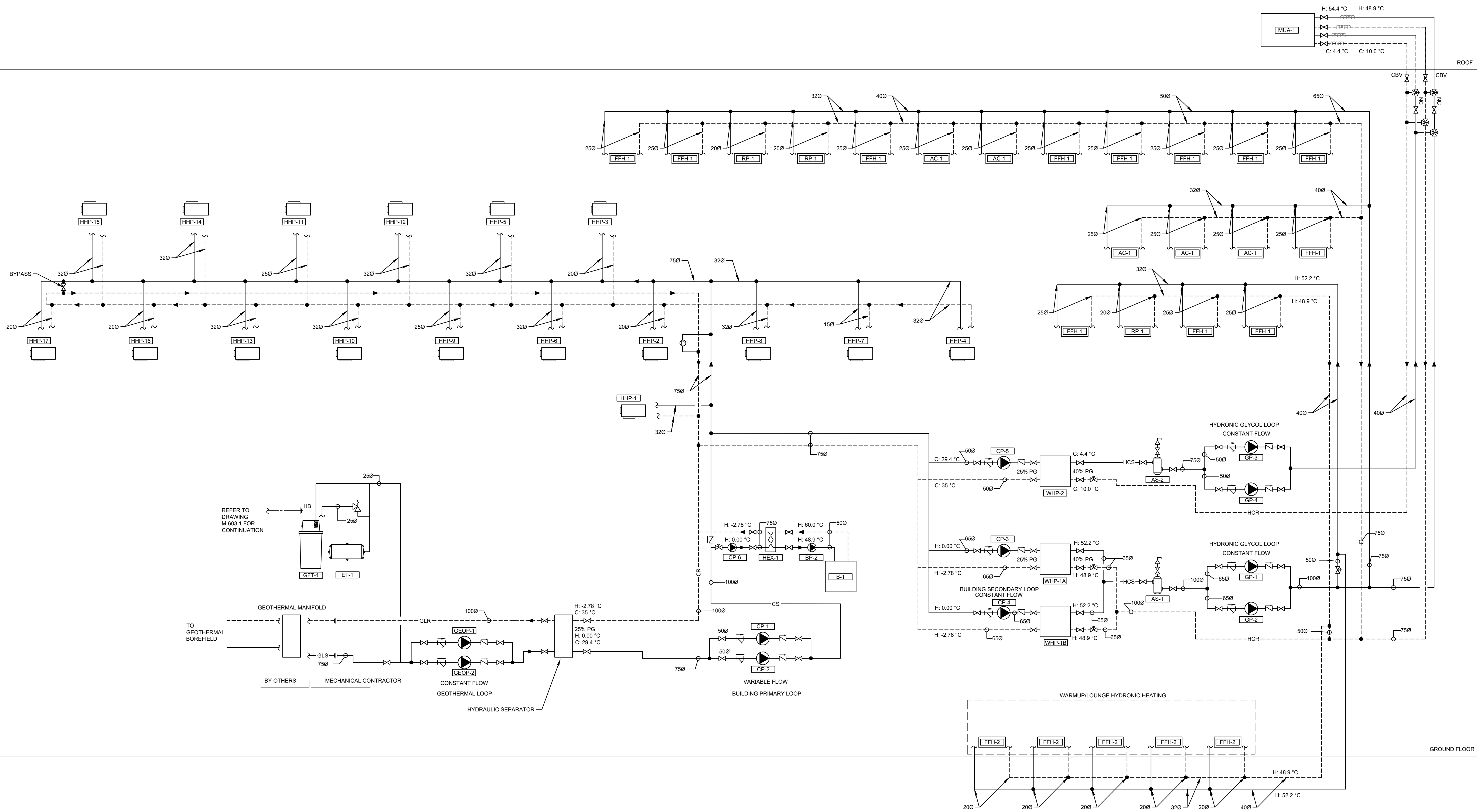
project no.: 2024-0112
scale: AS SHOWN
date:

drawing no.:

M-500.1

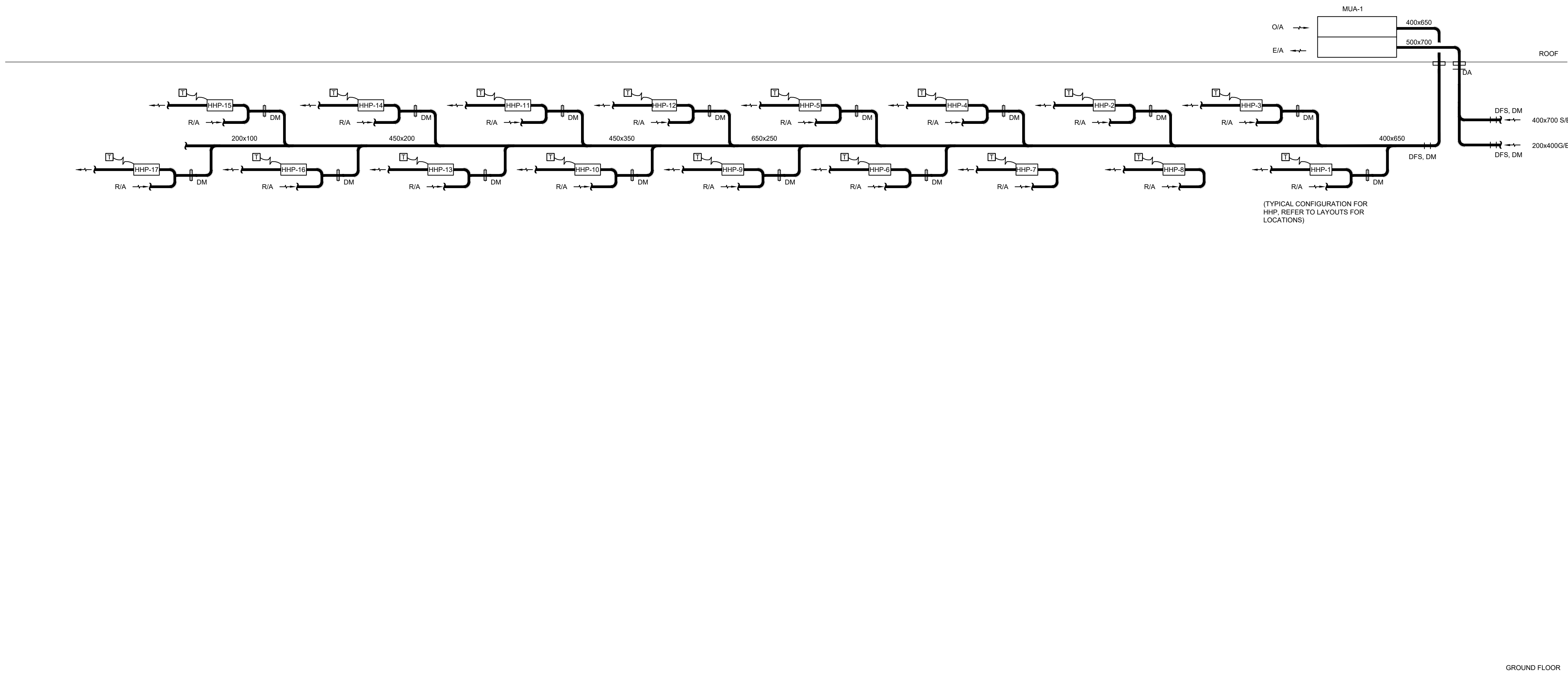
GENERAL NOTES:

- ERV MAKE-UP WATER LINE DRAIN AND OVERFLOW TO BE ELECTRICALLY TRACED AND INSULATED, C/W WEATHER PROOF JACKET.
- PROVIDE ISOLATION VALVES ON ALL BRANCH LINES AND AT ALL EQUIPMENT.
- PROVIDE VIBRATION ISOLATION FOR ALL ROTATING EQUIPMENT.
- CONDENSER WATER PIPING OUTDOORS TO BE ELECTRICALLY TRACED AND INSULATED, C/W WEATHER PROOF JACKET.
- EXPANSION COMPENSATION AND ANCHORING SYSTEM SHOP DRAWINGS TO BE STAMPED BY A LICENSED PROFESSIONAL ENGINEER. PROVIDE EXPANSION LOOPS AS REQUIRED IN MIDDLE OF 100 FT (OR GREATER) HYDRONIC PIPING SECTIONS.
- HEAT TRACE ALL PIPING SUBJECT TO FREEZING.
- CENTRALLY METER PLANT MECHANICAL SERVICES ON DIGITAL METERING SYSTEM (DMS) (OR BAS). REFER TO CONTROL DIAGRAMS AND SEQUENCE OF OPERATIONS FOR METERING SCOPE.



GENERAL NOTES:

1. PROVIDE BALANCING DAMPERS ON ALL BRANCH DUCTS AND OUTLETS.
2. CONTRACTOR TO PROVIDE ACCESS PANELS FOR ALL DAMPERS MOUNTED WITHIN DUCT AND COORDINATE ACCESS PANELS FOR ALL DAMPERS LOCATED BEHIND WALLS/CEILINGS.
3. DYNAMIC FIRE DAMPERS SHALL BE PROVIDED WHERE DAMPERS ARE POSITIONED HORIZONTALLY OR WHERE AIRSTREAM PRESSURE COULD PREVENT GRAVITY BASED DAMPERS FROM CLOSING.



ISSUED FOR TENDER	2024-11-08
ISSUED FOR PROGRESS	2024-08-23
revision	date

FIFA - EAST VSTS
CENTENNIAL PARK
Address: 56 Centennial Park Rd. Toronto, ON
EAST VSTS HVAC SCHEMATIC
- SEPARATE PRICE 1

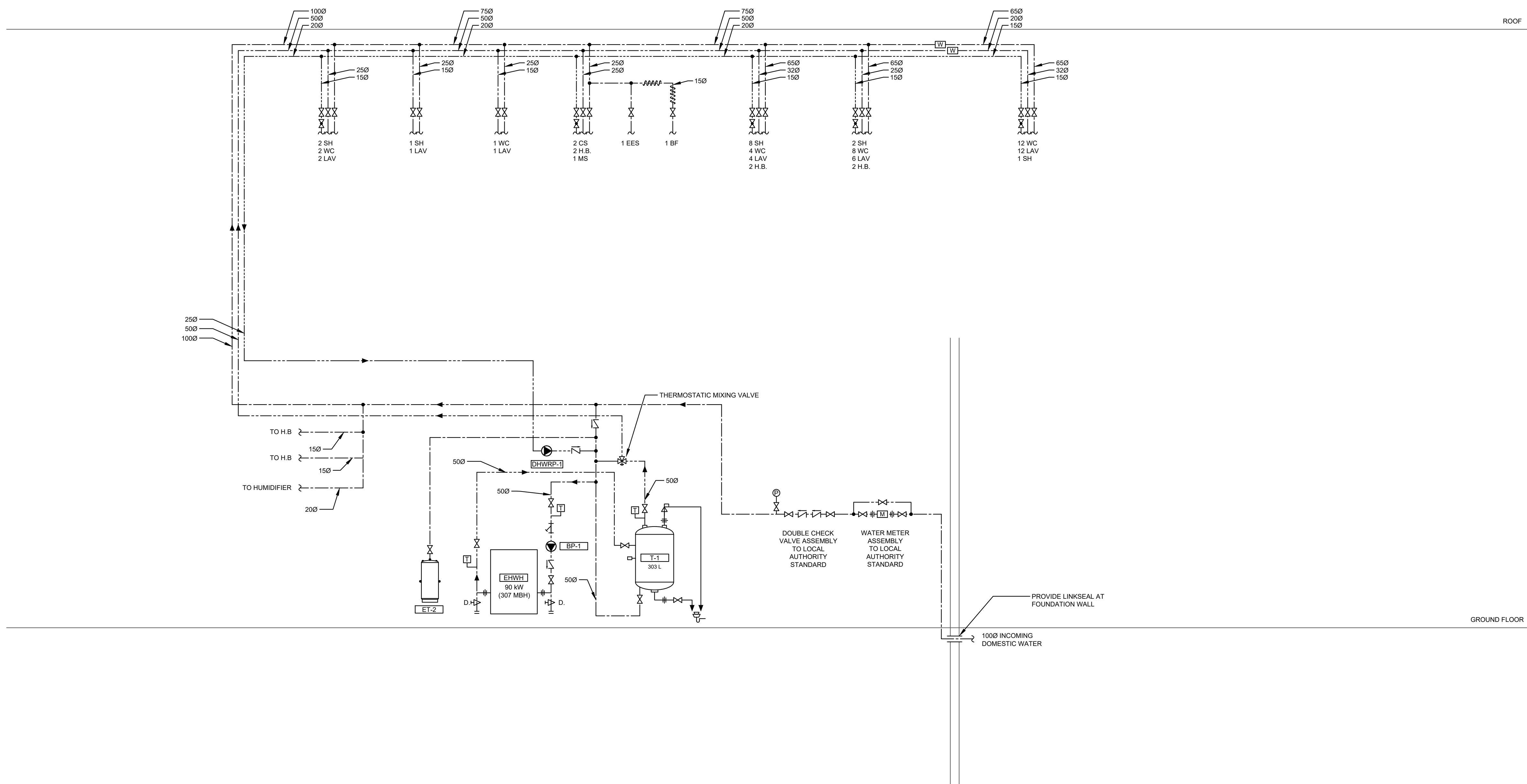
project no. :	2024-0112
scale :	N.T.S.
date :	

drawing no. :

M-601.1

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A R C H I T E C T I N C .
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1. MAXIMUM DHW DISTRIBUTION TEMPERATURE NOT TO EXCEED 48.9°C (120°F)
2. ALL DOMESTIC HOT WATER RECIRCULATION LINES TO HAVE CIRCUIT BALANCING VALVES.
3. HEAT TRACE ALL PIPING SUBJECT TO FREEZING.
4. PROVIDE AUTOMATIC AIR VENTS THROUGHOUT THE SYSTEM AT HIGH POINTS ON DOMESTIC HOT WATER RECIRCULATION PIPING.
5. PROVIDE INDIVIDUAL TEMPERATURE MIXING VALVES FOR EVERY ELECTRONIC LAVATORY FAUCET IN ALL PUBLIC AREAS.
6. PROVIDE ELECTRONIC TRAP SEAL PRIMERS FOR ALL FLOOR DRAINS.
7. EXPANSION COMPENSATION AND ANCHORING SYSTEM SHOP DRAWINGS TO BE STAMPED BY A LICENSED PROFESSIONAL ENGINEER.
8. PROVIDE ISOLATION AND DRAIN VALVES FOR ALL DCWD/DHWD/HWR RISERS.
9. PROVIDE EXPANSION LOOPS FOR HYDRONIC PIPING FOR ANY STRAIGHT LENGTH OF: 100 FT OR GREATER



ISSUED FOR TENDER	2024-11-08
ISSUED FOR PROGRESS	2024-08-23
revision	date

**FIFA - EAST VSTS
CENTENNIAL PARK**

Address: 56 Centennial Park Rd, Toronto, ON

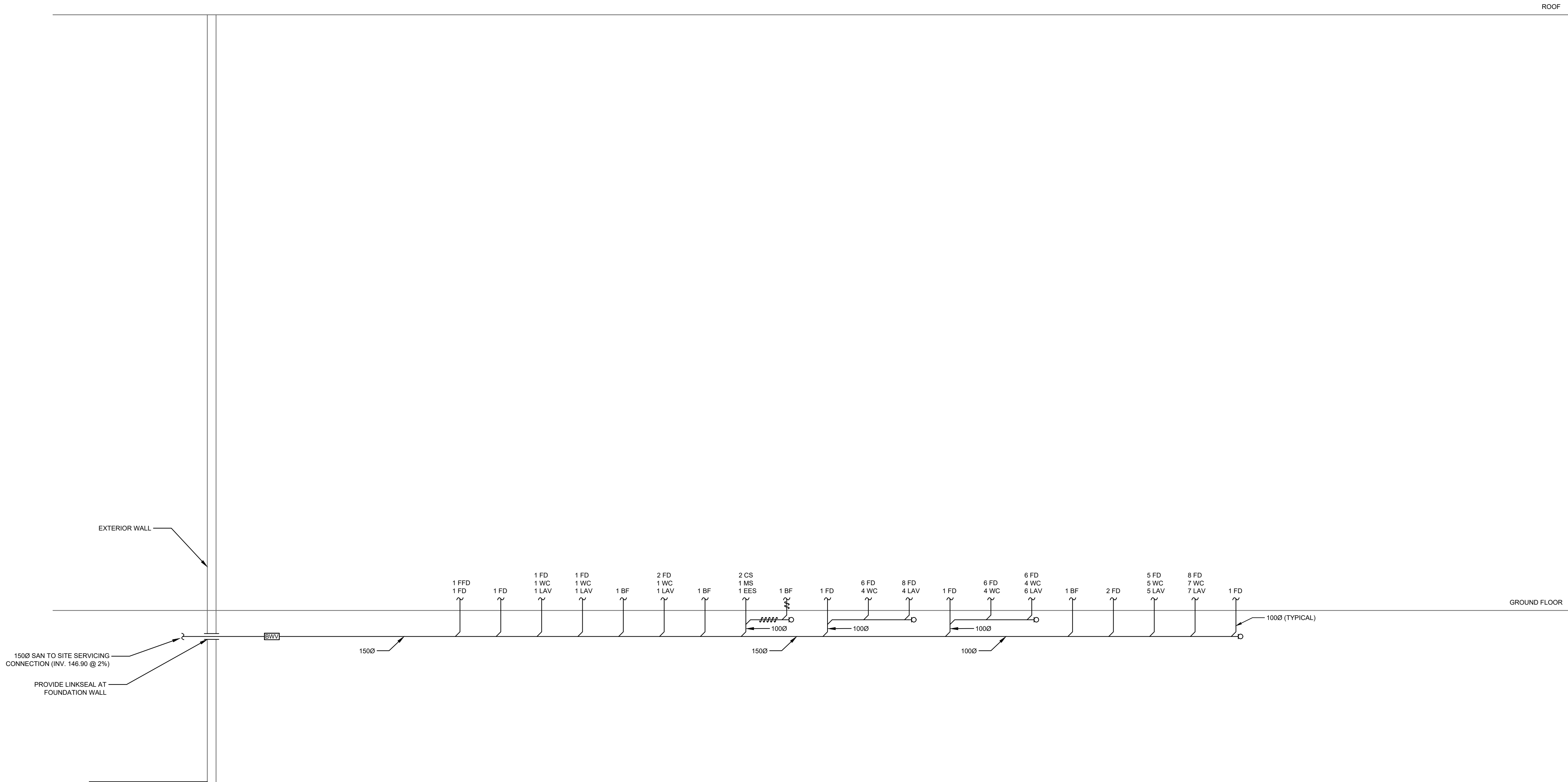
**EAST VSTS DOMESTIC WATER
GAME
SCHEMATIC - SEPARATE
PRICE 1**

project no. : 2024-0112
scale : N.T.S.
date :

drawing no. :

M-602.1

- GENERAL NOTES:
- DRAIN PIPING SHALL BE AT MINIMUM 1% SLOPE AT ALL OFFSETS UNLESS OTHERWISE SPECIFIED.
 - PROVIDE CLEANOUTS IN ACCORDANCE WITH PART 7 OF THE OBC. CLEANOUTS SHALL BE PROVIDED AT EVERY CHANGE IN DIRECTION AND AT 15M (50FT) INTERVALS ON STRAIGHT RUNS BELOW-GRADE. CLEANOUTS IN OCCUPIED SPACES SHALL BE PROVIDED WITH ACCESS PANEL IN LOCATION COORDINATED WITH THE INTERIOR DESIGN TO BE ACCESSIBLE ONCE FULLY FURNISHED.
 - HEAT TRACE ALL PIPING SUBJECT TO FREEZING.
 - PROVIDE ELECTRONIC TRAP SEAL PRIMERS FOR ALL FLOOR DRAIN 'P' TRAPS.
 - CONTRACTOR TO PROVIDE COMPLETE SANITARY VENTING SYSTEM IN ACCORDANCE WITH PART 7 OF THE OBC. ALL VENT STACKS TO TERMINATE OUTDOORS. SYSTEM SHALL BE VENTED IN SUCH A WAY AS TO MINIMIZE NUMBER OF VENTS THROUGH ROOF.



ISSUED FOR TENDER	2024-11-08
ISSUED FOR PROGRESS	2024-08-23
revision	date

FIFA - EAST VSTS
CENTENNIAL PARK
Address: 56 Centennial Park Rd. Toronto, ON
EAST VSTS SANITARY GAME
SCHEMATIC - SEPARATE
PRICE 1

project no. : 2024-0112
scale : N.T.S.
date :

drawing no. :

M-603.1

- GENERAL NOTES:
- DRAIN PIPING SHALL BE AT MINIMUM 1% SLOPE AT ALL OFFSETS UNLESS OTHERWISE SPECIFIED.
 - PROVIDE CLEANOUTS IN ACCORDANCE WITH PART 7 OF THE OBC. CLEANOUTS SHALL BE PROVIDED AT EVERY CHANGE IN DIRECTION AND AT 15M (50FT) INTERVALS ON STRAIGHT RUNS BELOW-GRADE. CLEANOUTS IN OCCUPIED SPACES SHALL BE PROVIDED WITH ACCESS PANEL IN LOCATION COORDINATED WITH THE INTERIOR DESIGN TO BE ACCESSIBLE ONCE FULLY FURNISHED.
 - HEAT TRACE ALL PIPING SUBJECT TO FREEZING.

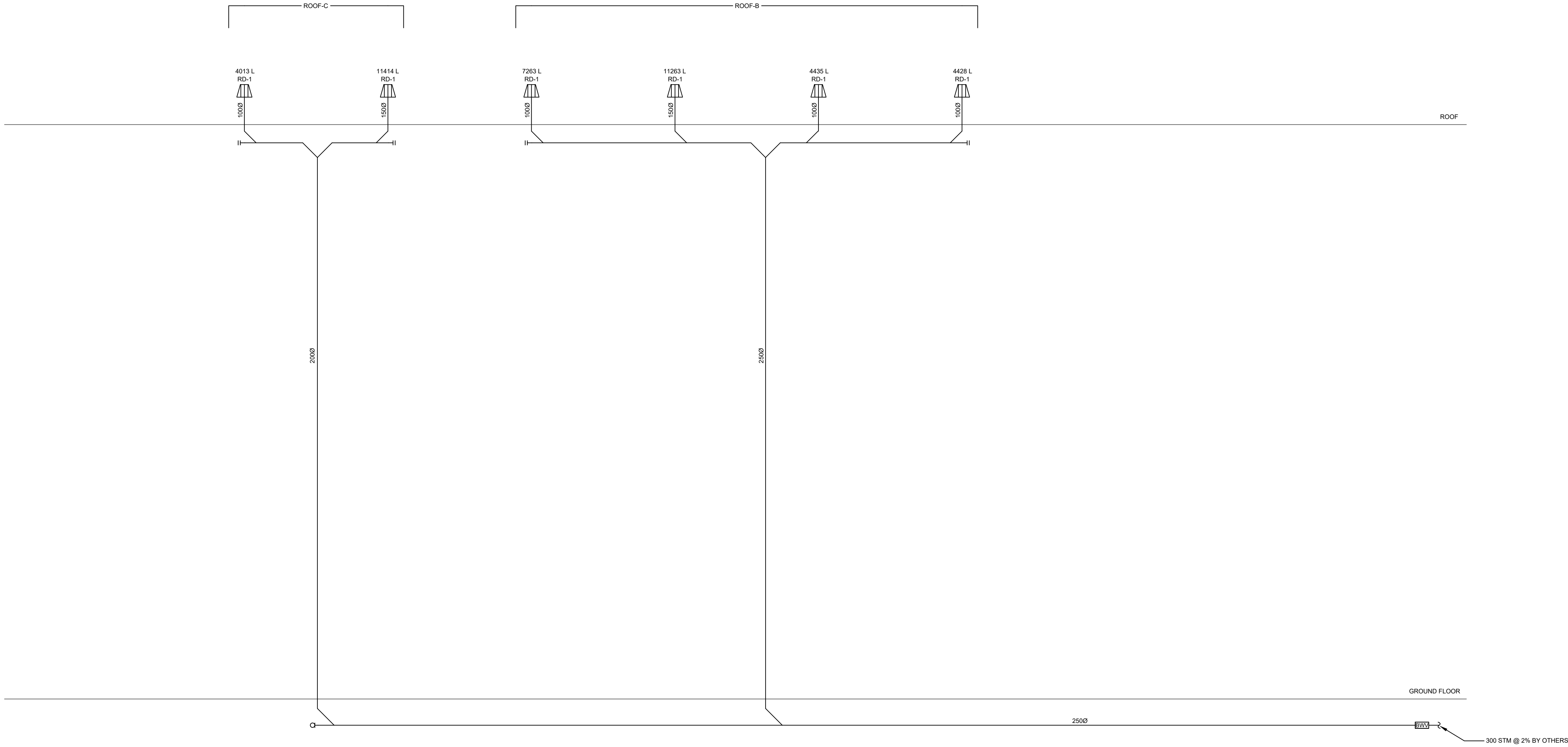


ISSUED FOR TENDER	2024-11-08
ISSUED FOR PROGRESS	2024-08-23
revision	date

FIFA - EAST VSTS
CENTENNIAL PARK
Address: 56 Centennial Park Rd. Toronto, ON
EAST VSTS STORM
SCHEMATIC - SEPARATE
PRICE 1

project no. : 2024-0112
scale : N.T.S.
date :
drawing no. :

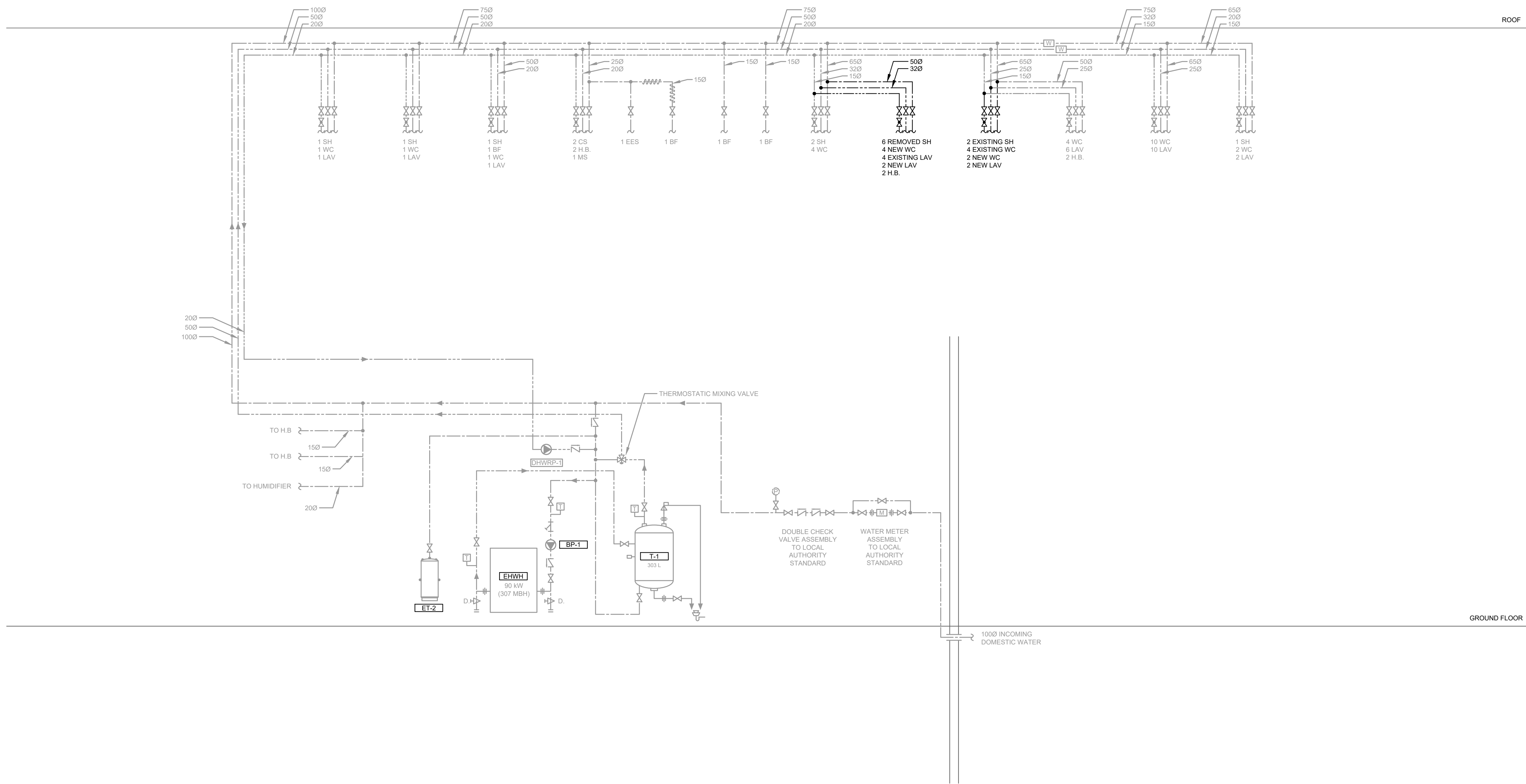
M-604.1





GENERAL NOTES:

1. MAXIMUM DHW DISTRIBUTION TEMPERATURE NOT TO EXCEED 48.9°C (120°F).
2. ALL DOMESTIC HOT WATER RECIRCULATION LINES TO HAVE CIRCUIT BALANCING VALVES.
3. HEAT TRACE ALL PIPING SUBJECT TO FREEZING.
4. PROVIDE AUTOMATIC AIR VENTS THROUGHOUT THE SYSTEM AT HIGH POINTS ON DOMESTIC HOT WATER RECIRCULATION PIPING.
5. PROVIDE INDIVIDUAL TEMPERATURE MIXING VALVES FOR EVERY ELECTRONIC LAVATORY FAUCET IN ALL PUBLIC AREAS.
6. PROVIDE ELECTRONIC TRAP SEAL PRIMERS FOR ALL FLOOR DRAINS.
7. EXPANSION COMPENSATION AND ANCHORING SYSTEM SHOP DRAWINGS TO BE STAMPED BY A LICENSED PROFESSIONAL ENGINEER.
8. PROVIDE ISOLATION AND DRAIN VALVES FOR ALL DCW/DHW/DHWR RISERS.
9. PROVIDE EXPANSION LOOPS FOR HYDRONIC PIPING FOR ANY STRAIGHT LENGTH 100 FT OR GREATER.



ISSUED FOR TENDER	2024-11-08
ISSUED FOR PROGRESS	2024-08-23
revision	date

FIFA - EAST VSTS
CENTENNIAL PARK
Address: 56 Centennial Park Rd. Toronto, ON

EAST VSTS DOMESTIC WATER
LEGACY SCHEMATIC - SEPARATE
PRICE 1

project no. : 2024-0112
scale : N.T.S.
date :

drawing no. :

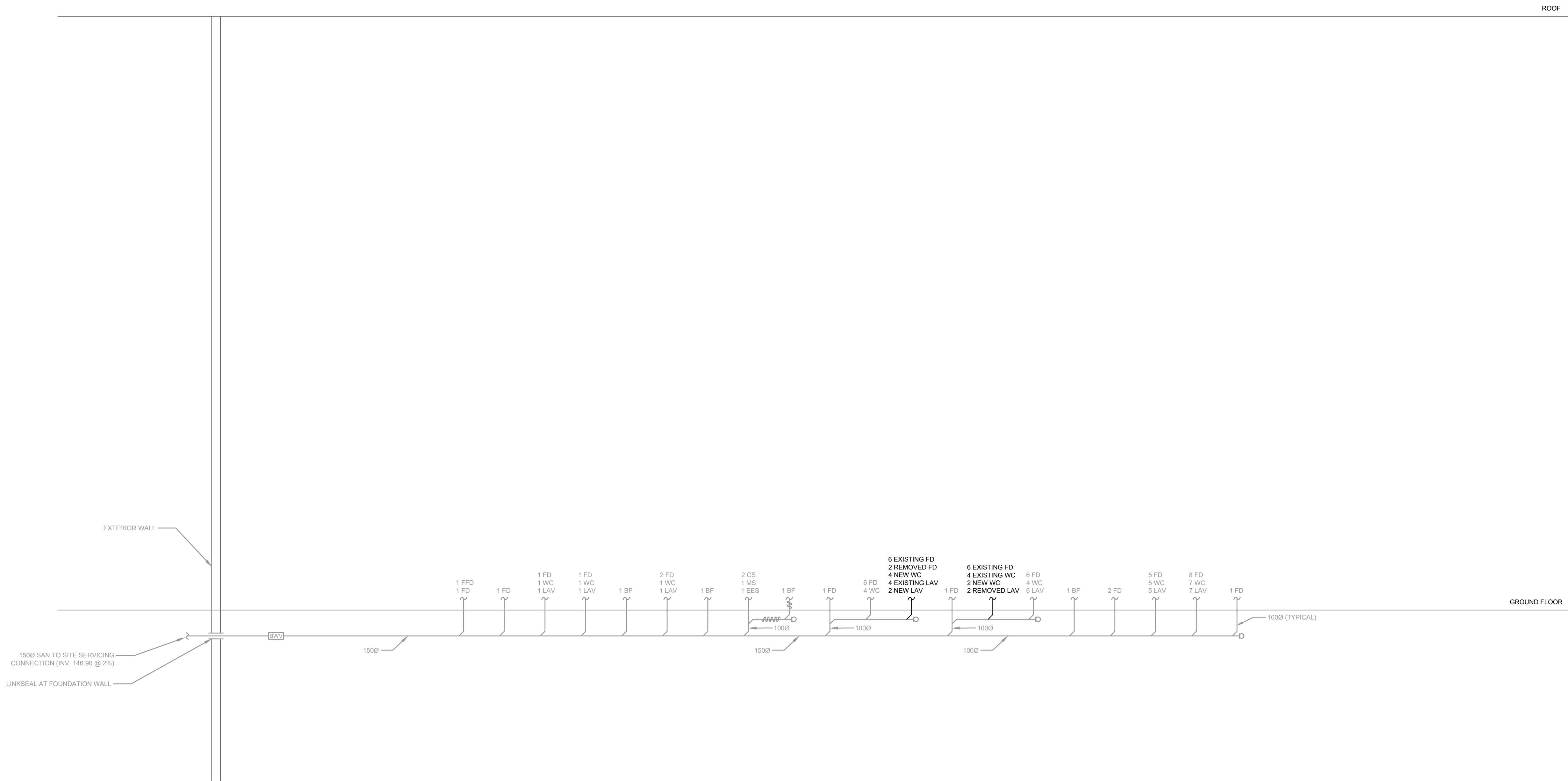
M-605.1

GENERAL NOTES:

- DRAIN PIPING SHALL BE AT MINIMUM 1% SLOPE AT ALL OFFSETS UNLESS OTHERWISE SPECIFIED.
- PROVIDE CLEANOUTS IN ACCORDANCE WITH PART 7 OF THE OBC. CLEANOUTS SHALL BE PROVIDED AT EVERY CHANGE IN DIRECTION AND AT 15M (50FT) INTERVALS ON STRAIGHT RUNS BELOW-GRADE. CLEANOUTS IN OCCUPIED SPACES SHALL BE PROVIDED WITH ACCESS PANEL IN LOCATION COORDINATED WITH THE INTERIOR DESIGN TO BE ACCESSIBLE ONCE FULLY FURNISHED.
- HEAT TRACE ALL PIPING SUBJECT TO FREEZING.
- PROVIDE ELECTRONIC TRAP SEAL PRIMERS FOR ALL FLOOR DRAIN 1" TRAPS.
- CONTRACTOR TO PROVIDE COMPLETE SANITARY VENTING SYSTEM IN ACCORDANCE WITH PART 7 OF THE OBC. ALL VENT STACKS TO TERMINATE OUTDOORS. SYSTEM SHALL BE VENTED IN SUCH A WAY AS TO MINIMIZE NUMBER OF VENTS THROUGH ROOF.

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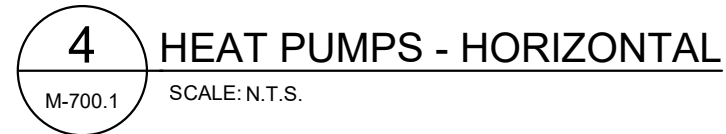


ISSUED FOR TENDER	2024-11-08
ISSUED FOR PROGRESS	2024-08-23
revision	date

FIFA - EAST VSTS
CENTENNIAL PARK
Address: 56 Centennial Park Rd. Toronto, ON
EAST VSTS SANITARY LEGACY
SCHEMATIC - SEPARATE
PRICE 1

project no. : 2024-0112
scale : N.T.S.
date :
drawing no. :

M-606.1

drawing no. :

PUMP SCHEDULE

TAG	SERVICE	LOCATION	MANUFACTURER	MODEL NO.	PUMP SPECIFICATIONS					ELEC. (V/PH/Hz)	EMERGENCY POWER	PRESSURE RATING (kPa)	FLUID	VFD/ STARTER	WEIGHT (KG)	REMARKS
					FLOW (L/S)	HEAD (kPa)	SPEED (RPM)	MOTOR POWER (HP)	BHP (HP)							
GEOP-1/2	GEOTHERMAL GROUND LOOP	MECH ROOM	BELL & GOSSETT	1.25AAB	6.94	209.23	3,600	5.00	3.19	208-230/1/60	-	-	25% PG	VFD	32	DUTY/STANDY
CP-1/2	BUILDING PRIMARY LOOP	MECH ROOM	BELL & GOSSETT	2AAB	8.96	188.31	3,600	5.00	3.39	575/3/60	-	-	25% PG	-	39	PUMPS TO OPERATE IN PARALLEL EACH SIZED FOR 75% OF SYSTEM FLOW.
CP-3/4	HEATING WWHP SOURCE PUMPS	MECH ROOM	BELL & GOSSETT	PL-100	2.91	41.85	3,250	0.40	0.45	575/3/60	-	-	25% PG	-	7	DUTY/DUTY
GP-1/2	HEATING GLYCOL LOOP	MECH ROOM	BELL & GOSSETT	1.25AAB	4.50	170.38	3,450	3.00	1.79	575/3/60	-	-	40% PG	-	30	-
BP-1	DOMESTIC HOT WATER	MECH ROOM	BELL & GOSSETT	NBF-25	0.38	44.84	2,950	-	-	115/1/60	-	-	25% PG	-	-	-
DHWRP-1	DHW RECIRCULATION	MECH ROOM	BELL & GOSSETT	PL-30B	0.32	62.77	2,650	0.08	-	115/1/60	-	-	DOMESTIC WATER	-	5	-
GP-3/4	COOLING GLYCOL LOOP	MECH ROOM	BELL & GOSSETT	PL-55	1.36	95.65	3,250	0.40	-	115/1/60	-	-	WATER	-	6	DUTY/STANDBY
CP-5	COOLING WWHP SOURCE PUMP	MECH ROOM	BELL & GOSSETT	1.5AB	2.27	67.85	1,725	0.75	0.43	575/3/60	-	-	25% PG	-	34	-
BP-2	SUPPLEMENTAL BOILER PUMP	MECH ROOM	-	-	1.51	80.70	-	-	-	-	-	-	WATER	-	-	-
CP-6	SUPPLEMENTAL BOILER LOOP	MECH ROOM	-	-	6.31	80.70	-	-	-	-	-	-	25% PG	-	-	-

NOTES:

ELECTRIC DOMESTIC WATER HEATER SCHEDULE

TAG	SERVICE	LOCATION	MANUFACTURER	MODEL NO.	CAPACITY (L)	RECOVERY RATE (L/H)	HEATER ELEMENT (kW)	WEIGHT (KG)	ELEC. (V/PH/Hz)	MCA (A)	REMARKS
EHWH	DHW	MECH ROOM	AO SMITH	DSE-65A-90	246	84,490	90	-	600/3/60	-	-

DOMESTIC STORAGE TANK SCHEDULE

TAG	SERVICE	LOCATION	MANUFACTURER	MODEL NO.	CAPACITY (L)	DIMENSIONS (MM)		REMARKS
						DIAMETER	LENGTH	
T-1	DHW	MECH ROOM	AO SMITH	TJ-80A	303	673	1,397	-

MAKE-UP (VENTILATION) AIR UNIT SCHEDULE

TAG	SERVICE	LOCATION	MANUFACTURER	MODEL No.	SUPPLY FAN							EXHAUST FAN							HEATING COIL PERFORMANCE												COOLING COIL PERFORMANCE									
					AIR FLOW (L/S)	ESP (Pa)	SPEED (RPM)	MOTOR POWER (HP)	BHP (HP)	ELEC. (V/PH/Hz)	VFD/ STARTER	AIR FLOW (L/S)	ESP (Pa)	SPEED (RPM)	MOTOR POWER (HP)	BHP (HP)	ELEC. (V/PH/Hz)	VFD/ STARTER	HEATING CAPACITY (kW)	AIR SIDE				WATER SIDE				HEATING CAPACITY (kW)	AIR SIDE				WATER SIDE							
																				AIR FLOW (L/S)	EAT DB (°C)	LAT DB (°C)	PRESSURE DROP (PA)	EWT (°C)	LWT (°C)	FLOW RATE (L/S)	PRESS DROP (kPA)		AIR FLOW (L/S)	EAT DB (°C)	LAT DB (°C)	PRESSURE DROP (PA)	EWT (°C)	LWT (°C)	FLOW RATE (L/S)	PRESS DROP (kPA)				
MJA-1	BUILDING OA	ROOF	SWEGON	AD-100019112707	1,534	418	1,682	5	3	600/3/60	-	1,699	448	1,833	5	3	600/3/60	-	19	1,534	-22	22	7	53	49	1	53	7	1,534	31	24	24	17	12	6	12				
ENERGY RECOVERY PERFORMANCE																																FILTERS	WEIGHT (KG)	FULL CURRENT LOAD (A)	EMERGENCY OR NORMAL POWER	REMARKS				
WINTER								SUMMER																																
OA TEMP. DB (°C)	OA TEMP. WB (°C)	EA TEMP. DB (°C)	EA TEMP. WB (°C)	SENSIBLE EFFICIENCY (%)	LATENT EFFICIENCY (%)	SA TEMP. DB (°C)	SA TEMP. WB (°C)	OA TEMP. DB (°C)	OA TEMP. WB (°C)	EA TEMP. DB (°C)	EA TEMP. WB (°C)	SENSIBLE EFFICIENCY (%)	LATENT EFFICIENCY (%)	SA TEMP. DB (°C)	SA TEMP. WB (°C)	63	125	250	500	1000	2000	4000	8000	63	125	250	500	1000	2000	4000	8000									
-22	-	22	14	84	83	15	10	31	25	24	-	75	61	26	-	75/80	73/74	74/76	60/76	52/73	50/72	47/68	52/70	77/82	76/77	77/79	65/81	57/78	55/77	54/75	57/75	-	1,447	9	-	-				

EXPANSION TANK SCHEDULE

TAG	SERVICE	LOCATION	MANUFACTURER	MODEL No.	SYSTEM	ACCEPTANCE VOLUME (L)	MIN. TEMPERATURE (C)	MAX. TEMPERATURE (C)	FILL PRESSURE (kPa)	FLUID	DIMENSIONS (MM)		PRESSURE RATING (kPa)	WEIGHT (KG)
ET-1	GEO LOOP	MECH ROOM	AMTROL	AX-120	-	129	-	116	862	25% PG	610	1,041	-	-
ET-2	DOMESTIC LOOP	MECH ROOM	-	-	-	-	-18	116	-	-	-	-	-	-

NOTES:

HYDRAULIC SEPARATOR SCHEDULE

TAG	SERVICE	LOCATION	MANUFACTURER	MODEL No.	FLUID	FLOW (L/S)	PRESS. DROP (kPa)	FLOODED VOLUME (M³)	PRESSURE RATING (kPa)	WEIGHT (KG)	REMARKS
HS	GEO LOOP (COOLING)	MECH ROOM	CALEFFI	SEP4 NA549082AM	25% PG	7.20	-	-	1724	50	-
NOTES:											

DIFFUSER & GRILLE SCHEDULE

TAG	UNIT				DAMPER		MATERIAL	FINISH	REMARKS
	MANUFACTURER	MODEL No.	APPLICATION	DUTY	PART OF UNIT	REMO TE IN DUCT			
A	PRICE	SPD	SUPPLY	SUPPLY	-	YES	-	-	-
B	PRICE	SDS100	LINEAR SLOT DIFFUSER	SUPPLY	-	YES	-	-	1" SLOT, 2 SLOTS
C	PRICE	SDR100	LOUVRED RETURN	EXHAUST	-	YES	-	-	-
D	PRICE	500	SUPPLY/RETURN	SUPPLY/RE TURN	YES	-	-	-	C/W BALANCING DAMPER
E	PRICE	SDS150	LINEAR SLOT DIFFUSER	SUPPLY	-	YES	-	-	1.5" SLOT, 4 SLOTS
F	PRICE	SDR100	LINEAR SLOT RETURN	RETURN	-	YES	-	-	1" SLOT, 2 SLOTS
G	PRICE	SDR150	LINEAR SLOT RETURN	RETURN	-	YES	-	-	1.5" SLOT, 4 SLOTS
H	PRICE	SDR100	LINEAR SLOT RETURN	RETURN	-	YES	-	-	1" SLOT, 2 SLOTS

NOTES:



WATER TO WATER HEAT PUMP SCHEDULE

TAG	SERVICE	LOCATION	MANU-FACTURER	MODEL No.	HEAT PUMP PERFORMANCE (AT FULL LOAD COOLING)											HEAT PUMP PERFORMANCE (AT FULL LOAD HEATING)											MCA (A)	MOP (A)	ELEC (V/PH/ HZ)	TOTAL SHIPPING WEIGHT (KG)	TOTAL OPERATING WEIGHT (KG)	NORMAL OR EMERGENCY POWER	REMARKS				
					TOTAL COOLING CAPACITY (kW)	COP	POWER INPUT (kW)	PRIMARY SIDE					SECONDARY SIDE					TOTAL COOLING CAPACITY (kW)	COP	POWER INPUT (kW)	PRIMARY SIDE					SECONDARY SIDE											
								EWT (°C)	LWT (°C)	FLOW RATE (L/s)	PRESSURE DROP (kPa)	FLUID	EWT (°C)	LWT (°C)	FLOW RATE (L/s)	PRESSURE DROP (kPa)	FLUID				EWT (°C)	LWT (°C)	FLOW RATE (L/s)	PRESSURE DROP (kPa)	FLUID	EWT (°C)								LWT (°C)	FLOW RATE (L/s)	PRESSURE DROP (kPa)	FLUID
WHP-1A/B	MUA-1 HEATING	MECH ROOM	WATER FURNACE	TSRS020SN25	-	-	-	-	-	-	-	-	-	-	-	62.28	2.83	21.99	1.67	-1.76	2.91	9.31	25% PG	48.89	52.31	4.51	27	40% PG	35	-	575/3/60	1,158	2,873	NORMAL	QTY: 2		
WHP-2	MUA-1 COOLING	MECH ROOM	WATER FURNACE	NDW180RSBNB1SE	3.75	12	11.00	-17.78	-17.78	2.27	37	25% PG	-17.78	-17.78	2.71	41	WATER	-	-	-	-	-	-	-	-	-	-	-	-	12	-	575/3/60	188	420	NORMAL	-	

HEAT PUMP SCHEDULE

TAG	SERVICE	LOCATION	MANUFACTURER	MODEL No.	FLUID	WATER FLOW (L/S)	COOLING COIL PERFORMANCE								HEATING COIL PERFORMANCE						FAN PERFORMANCE				ELEC (V/PH/HZ)	MCA (A)	VFD/ STARTER	WEIGHT (KG)	REMARKS	
							FLUID PRESSURE DROP (Pa)	EWT (°C)	LWT (°C)	EAT (DB) (°C)	EAT (WB) (°C)	LAT (DB) (°C)	LAT (WB) (°C)	SENSIBLE COOLING CAPACITY (KW)	TOTAL COOLING CAPACITY (KW)	FLUID PRESSURE DROP (Pa)	EWT (°C)	LWT (°C)	EAT (DB) (°C)	EAT (WB) (°C)	HEATING CAPACITY (kW)	AIR FLOW (L/S)	ESP (Pa)	SPEED (RPM)						MOTOR POWER (HP)
HHP-1	STORAGE/MECHANICAL	CEILING SPACE	DAIKIN	WSCH036	25% PG	0.57	41,638	33.33	38.44	23.89	17.22	14.33	12.06	6.33	9.02	47,167	1.67	-0.67	21.11	33.11	7.95	547	130	-	0.50	208-230/1/60	25	-	99	-
HHP-2	WORKFORCE OFFICE	CEILING SPACE	DAIKIN	WSCH012	25% PG	0.19	18,174	33.33	38.44	23.89	17.22	14.33	12.06	1.97	3.12	20,595	1.67	-0.67	21.11	33.11	3.10	146	77	-	0.10	208-230/1/60	8	-	47	-
HHP-3	COACHES ROOM	CEILING SPACE	DAIKIN	WSCH012	25% PG	0.19	18,174	33.33	38.44	23.89	17.22	14.33	12.06	1.97	3.12	20,595	1.67	-0.67	21.11	33.11	3.10	146	77	-	0.10	208-230/1/60	8	-	47	-
HHP-4	WARMUP LOUNGE	CEILING SPACE	DAIKIN	WSCH036	25% PG	0.57	41,638	33.33	38.44	23.89	17.22	14.33	12.06	6.22	8.97	47,167	1.67	-0.67	21.11	33.11	7.91	236	80	-	0.50	208-230/1/60	25	-	99	-
HHP-5	WARMUP LOUNGE	CEILING SPACE	DAIKIN	WSCH036	25% PG	0.57	41,638	33.33	38.44	23.89	17.22	14.33	12.06	6.22	8.97	47,167	1.67	-0.67	21.11	33.11	7.91	531	80	-	0.50	208-230/1/60	25	-	99	-
HHP-6	MEETING ROOM	CEILING SPACE	DAIKIN	WSCH036	25% PG	0.57	41,638	33.33	38.44	23.89	17.22	14.33	12.06	6.22	8.97	47,167	1.67	-0.67	21.11	33.11	7.91	236	80	-	0.50	208-230/1/60	25	-	99	-
HHP-7	IT	CEILING SPACE	DAIKIN	WSCH007	25% PG	0.09	6,157	33.33	38.44	23.89	17.22	14.33	12.06	1.36	1.36	6,994	1.67	-0.67	21.11	33.11	1.59	124	125	-	0.10	208-230/1/60	4	-	45	-
HHP-8	ELECTRICAL	CEILING SPACE	DAIKIN	WSCH015	25% PG	0.24	23,793	33.33	38.44	23.89	17.22	14.33	12.06	3.51	3.73	26,902	1.67	-0.67	21.11	33.11	3.44	236	199	-	0.30	208-230/1/60	10	-	64	-
HHP-9	CAFÉ	CEILING SPACE	DAIKIN	WSCH019	25% PG	0.28	30,429	33.33	38.44	23.89	17.22	14.33	12.06	3.14	4.73	34,494	1.67	-0.67	21.11	33.11	4.20	264	125	-	0.30	208-230/1/60	12	-	83	-
HHP-10	RECOVERY ROOM	CEILING SPACE	DAIKIN	WSCH030	25% PG	0.47	81,661	33.33	38.44	23.89	17.22	14.33	12.06	5.22	7.21	92,571	1.67	-0.67	21.11	33.11	6.34	441	82	-	0.30	208-230/1/60	17	-	83	-
HHP-11	MASSAGE ROOM	CEILING SPACE	DAIKIN	WSCH030	25% PG	0.47	81,661	33.33	38.44	23.89	17.22	14.33	12.06	5.22	7.21	92,571	1.67	-0.67	21.11	33.11	6.34	441	82	-	0.30	208-230/1/60	17	-	83	-
HHP-12	DRESSING ROOM A	CEILING SPACE	DAIKIN	WSCH030	25% PG	0.47	81,661	33.33	38.44	23.89	17.22	14.33	12.06	5.45	7.30	92,571	1.67	-0.67	21.11	33.11	6.41	472	82	-	0.30	208-230/1/60	17	-	83	-
HHP-13	DRESSING ROOM B	CEILING SPACE	DAIKIN	WSCH030	25% PG	0.47	81,661	33.33	38.44	23.89	17.22	14.33	12.06	5.45	7.30	92,571	1.67	-0.67	21.11	33.11	6.41	472	82	-	0.30	208-230/1/60	17	-	83	-
HHP-14	CORRIDOR	CEILING SPACE	DAIKIN	WSCH030	25% PG	0.47	81,661	33.33	38.44	23.89	17.22	14.33	12.06	5.45	7.30	92,571	1.67	-0.67	21.11	33.11	6.41	472	82	-	0.30	208-230/1/60	17	-	83	-
HHP-15	HALL	CEILING SPACE	DAIKIN	WSCH048	25% PG	0.76	36,616	33.33	38.44	23.89	17.22	14.33	12.06	8.84	12.34	41,518	1.67	-0.67	21.11	33.11	11.28	708	77	-	0.75	208-230/1/60	31	-	134	-
HHP-16	INTERVIEW	CEILING SPACE	DAIKIN	WSCH009	25% PG	0.14	9,326	33.33	38.44	23.89	17.22	14.33	12.06	1.60	2.42	10,581	1.67	-0.67	21.11	33.11	2.46	145	80	-	0.10	208-230/1/60	6	-	45	-
HHP-17	FLASH POSITION	CEILING SPACE	DAIKIN	WSCH009	25% PG	0.14	9,326	33.33	38.44	23.89	17.22	14.33	12.06	1.60	2.42	10,581	1.67	-0.67	21.11	33.11	2.46	145	80	-	0.10	208-230/1/60	6	-	45	-

NOTES:

SILENCER SCHEDULE

	SYSTEM	LOCATION	MANUFACTURER	MODEL No.	AIR FLOW (L/S)	AIR VELOCITY (M/S)	PRESS. DROP (Pa)	MODULE SIZE (MM)			QTY OF PIECES	DYNAMIC INSERTION LOSS (dB) [AIRFLOW GENERATED NOISE (dB)]								REMARKS
								W	H	L		63 Hz	125 Hz	250 Hz	500 Hz	1K Hz	2K Hz	4K Hz	8K Hz	
SL-1	MUA-1 SUPPLY	ROOF	KNC		1535	6.53		650	350		1									
SL-2	MUA-1 RETURN	ROOF	KNC		1700	6.86		600	400											

NOTES: 1. CONTRACTOR/SILENCER MANUFACTURER SHALL PROVIDE ACOUSTICAL ANALYSIS WITH PENG STAMP SHOWING SILENCER MEETS INSERTION LOSSES AND NC LEVEL AS SCHEDULED DURING SUBMITTAL REVIEW.
2. CONTRACTOR/SILENCER MANUFACTURER MUST PROVIDE PRESSURE DROP CALCULATIONS WITH PENG STAMP TO DEMONSTRATE THE PRESSURE DROP INCLUDING SYSTEM EFFECT AS SCHEDULED.
3. ALTERNATIVE SILENCER MANUFACTURER MUST PROVIDE SILENCER INTERNAL GEOMETRY FOR ENGINEER'S APPROVAL DURING SUBMITTAL REVIEW.
4. FOR NON-BASIS OF DESIGN PRODUCT SUPPLIES, CONTRACTOR TOR IS FINANCIALLY RESPONSIBLE TO ENSURE NOISE CONTROL SOLUTION IS DELIVERED AS PER NC LEVELS IN SPACES OR DBA

ELECTRIC HUMIDIFIER SCHEDULE

TAG	LOCATION	TYPE (ELECTRODE, RESISTIVE ELEMENT)	MANUFACTURER	MODEL No.	NOMINAL STEAM CAPACITY (KG/HR)	SUPPLY WATER CONNECTION SIZE (MM)	ELEC. (V/PH/Hz)	MCA (A)	MOUNTING ARRANGEMENT	WEIGHT (KG)	ABSORPTION DISTANCE (MM)	REMARKS
EHUM	MECH ROOM	RESISTIVE ELEMENT	STEAM OVAP	IER09	53	19	600/3/60	-	WALL MOUNTED	34	-	-

NOTES:



AIR CURTAIN SCHEDULE

	SERVICE	MANUFACTURER	MODEL No.	ARRANGEMENT	DIMENSIONS (L X W X H) (MM)	AIR FLOW (L/s)	EWТ (°C)	LWT (°C)	EAT (°C)	WPD (kPa)	HEATING CAPACITY (kW)	WATER FLOW (L/s)	MOTOR (kW)	ELEC. (V/PH/Hz)	MCA (A)	REMARKS
AC-1	OVERHEAD DOORS	BERNER	ARD12-3144W	HORIZONTAL DOWN DISCHARGE	3556 X 381 X 660	1783	52	41	65	0.30	13.72	0.32	3 @ 0.5	208/1/60		-

RADIANT CEILING PANEL SCHEDULE

	SERVICE	MANUFACTURER	HEATER TYPE	LENGTH (MM)	HEATING CAPACITY (kW)	EWТ (°C)	LWT (°C)	REMARKS
RP-1	WASHROOM	SIGMA	BOTTOM RETURN CEILING MOUNTED RADIANT PANEL	REFER TO FLOORPLAN	REFER TO FLOORPLAN	52	48.89	9000mm WIDTH, 10 TUBE PASSES

HYDRONIC FORCE FLOW HEATER SCHEDULE

	SERVICE	MANUFACTURER	MODEL No.	ARRANGEMENT	DIMENSIONS (L X W X H) (MM)	AIR FLOW (L/s)	EWТ (°C)	LWT (°C)	EAT (°C)	WPD (kPa)	HEATING CAPACITY (kW)	WATER FLOW (L/s)	MOTOR (W)	ELEC. (V/PH/Hz)	MCA (A)	REMARKS
FFH-1	EXIT VESTIBULE HEATING	JAGA	BRIZA-22	FAN COIL, CEILING MOUNTED CABINET	950 X 625 X 270		52	48.89	18.0		5	0.38		115/1/60	2	-
FFH-2	WARMUP LOUNGE HEATING	JAGA	SLCM02014411/BNA	CURB MOUNTED	1440 X 180 X 200	59	52	48.89	18.3	61.6	2.26	0.16	8.60	120/1/60		1440 MM CABINET WITH STANDARD INTERNAL COMPONENT
FFH-3	WARMUP LOUNGE HEATING	JAGA	SLCM02010811/BNA	CURB MOUNTED	2160 X 180 X 200	130	52	48.89	18.3	143.4	3.10	0.22	12	120/1/60		2 x 1080 MM CABINETS WITH 1800 MM INTERNAL SECTION
FFH-4	WARMUP LOUNGE HEATING	JAGA	SLCM02010811/BNA	CURB MOUNTED	2880 X 180 X 200	130	52	48.89	18.3	143.4	3.10	0.22	12	120/1/60		2 x 1440 MM CABINETS WITH 1800 MM INTERNAL SECTION

ELECTRIC HEATING BOILER SCHEDULE

	SERVICE	MANUFACTURER	MODEL No.	INPUT (kW)	MIN FLOW RATE (L/s)	MAX FLOW RATE (L/s)	MAX PRESSURE DROP (kPa)	EWТ (°C)	LWT (°C)	WEIGHT (KG))	ELEC. (V/PH/Hz)	MCA (A)	MOP (A)	EFF. (%)	REMARKS
B-1	SUPPLEMENTAL HEAT	LOCHINVAR	KEB0075	75	0.39	6.620000	1			-	115/1/60	2	2		-

HEAT EXCHANGER SCHEDULE

TAG	SERVICE	LOCATION	TYPE (SHELL & TUBE OR PLATE & FRAME)	MANU-FACTURER	MODEL No.	MINIMUMHEAT TRANSFER(kW)	POWER INPUT (kW)	SOURCE SIDE					LOAD SIDE					MINIMUM PRESSURE RATING (KPA)	WEIGHT (KG)	REMARKS
								EWТ (°C)	LWT (°C)	FLOW RATE (L/s)	PRESSURE DROP (kPa)	FLUID	EWТ (°C)	LWT (°C)	FLOW RATE (L/s)	PRESSURE DROP (kPa)	FLUID			
HEX-1	SUPPLEMENTAL BOILER	MECH ROOM			-	-	-	-	-	-	-	-	-	-	-	-	-			

NOTES:

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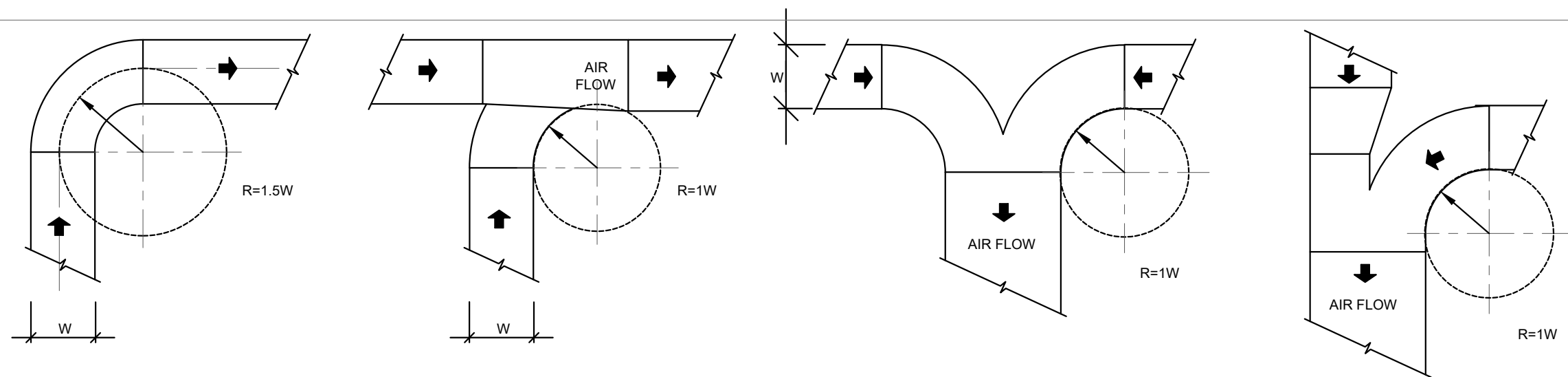
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ISSUED FOR PROGRESS	2024-08-23
ISSUED FOR PROGRESS	2024-08-15
revision	date

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MECHANICAL SCHEDULES III -
SEPARATE PRICE 1

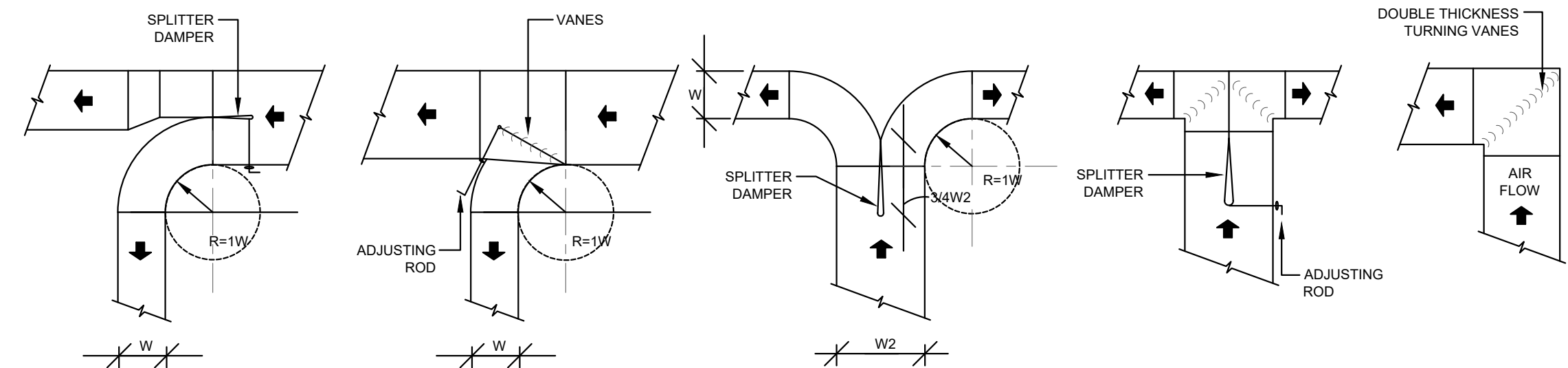
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scale :	N.T.S.
date :	

drawing no. :

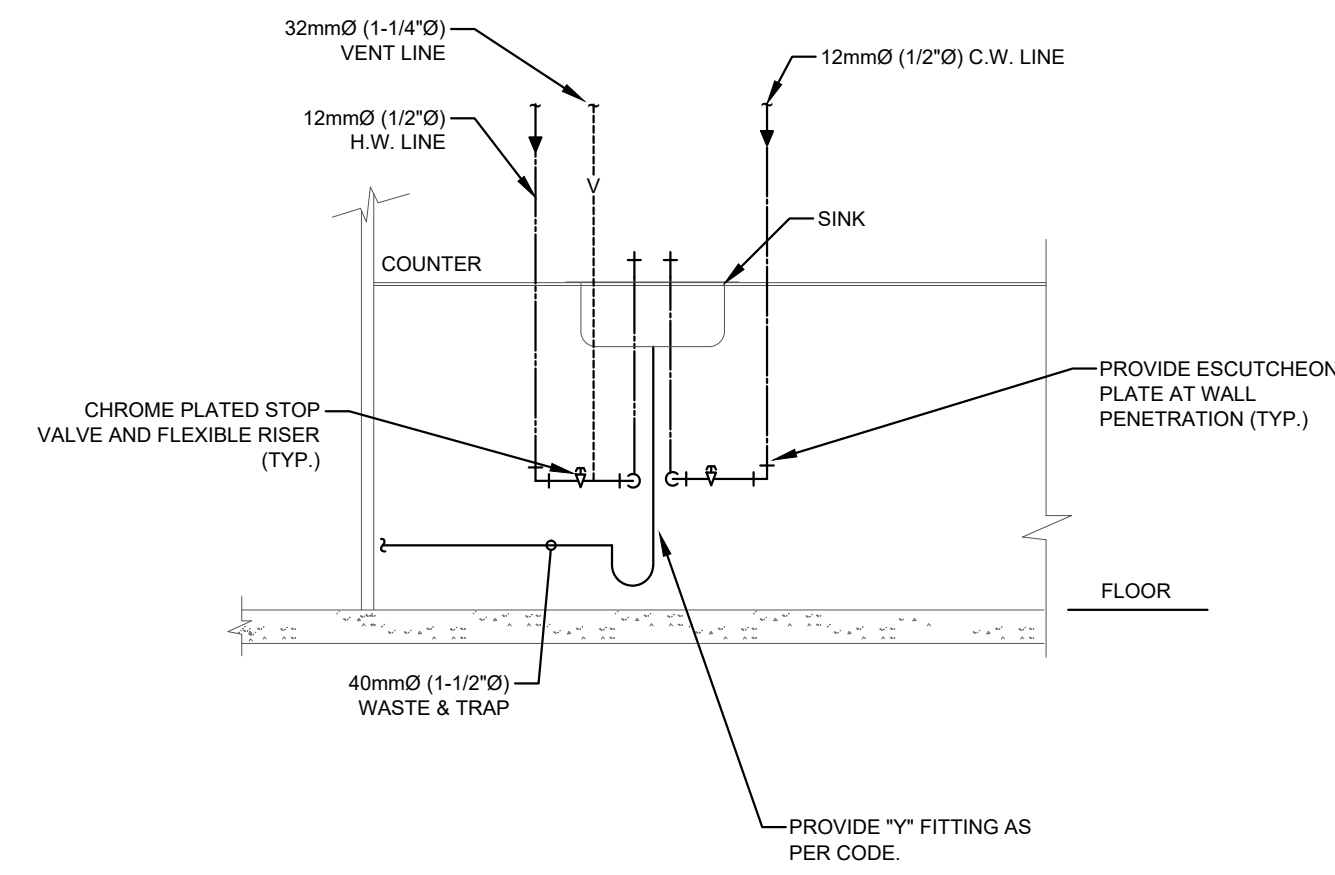
M-802.1



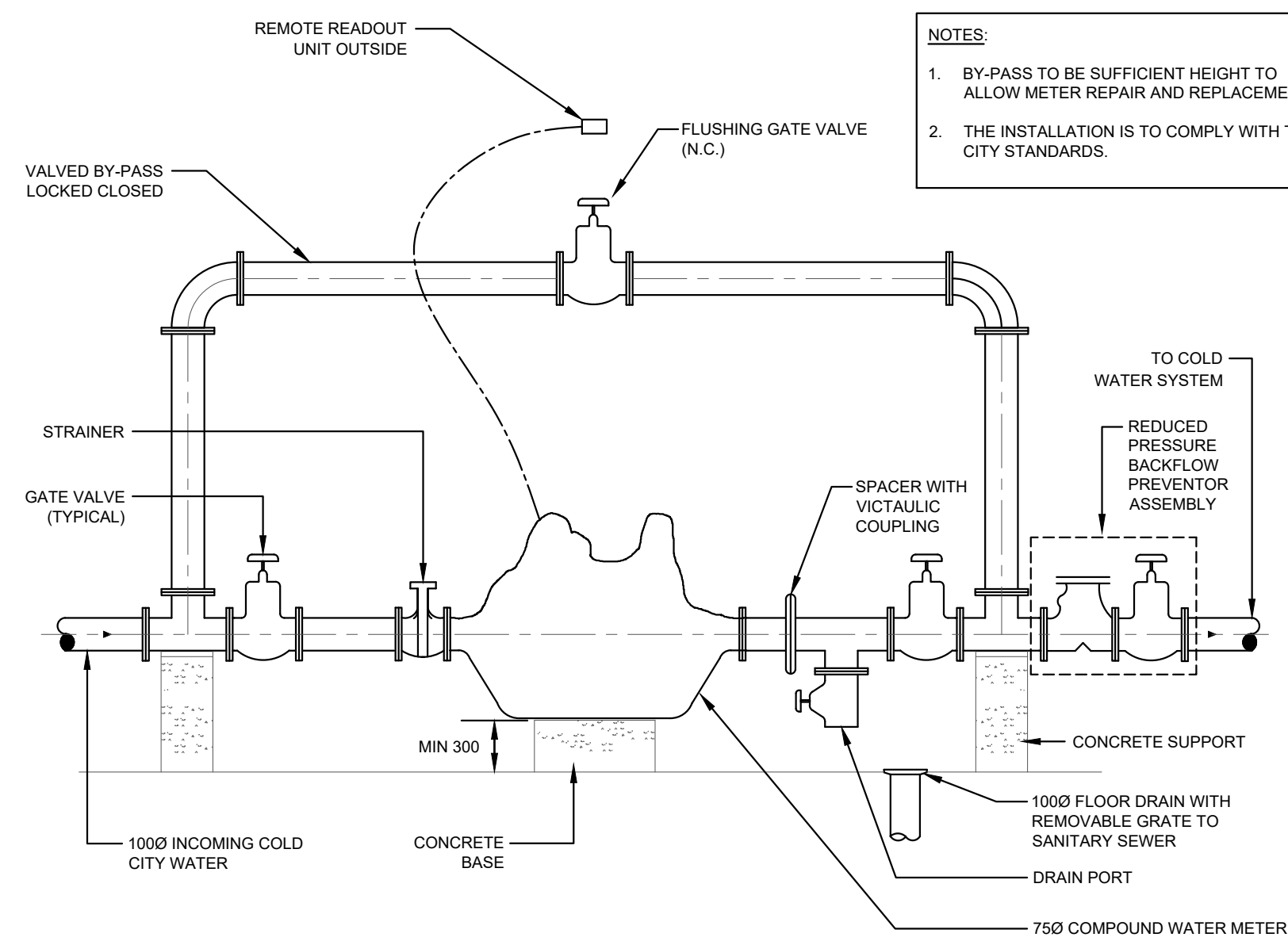
TYPICAL EXHAUST AIR & RETURN AIR DUCT BRANCHES



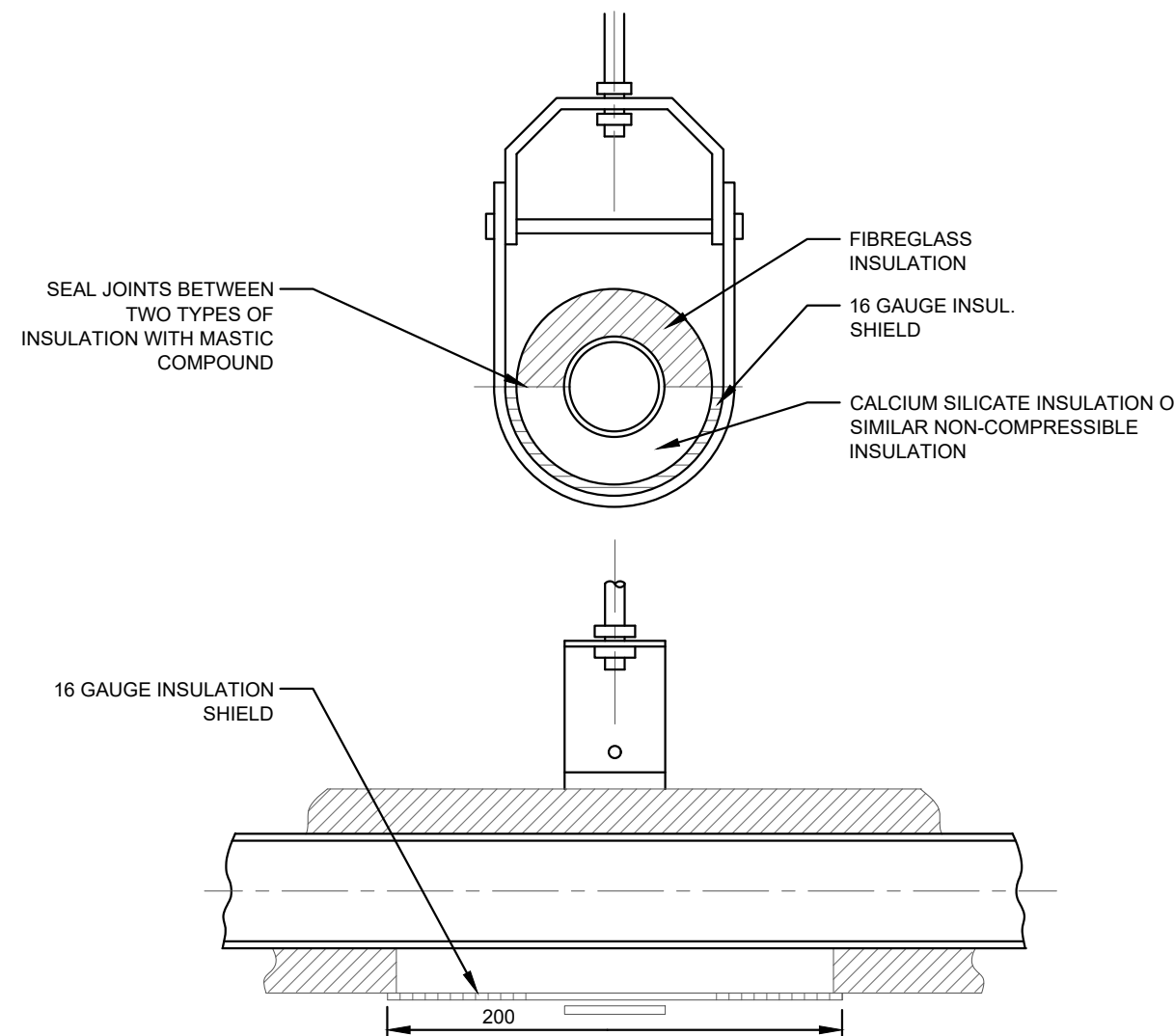
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M-900.1 SCALE: N.T.S.



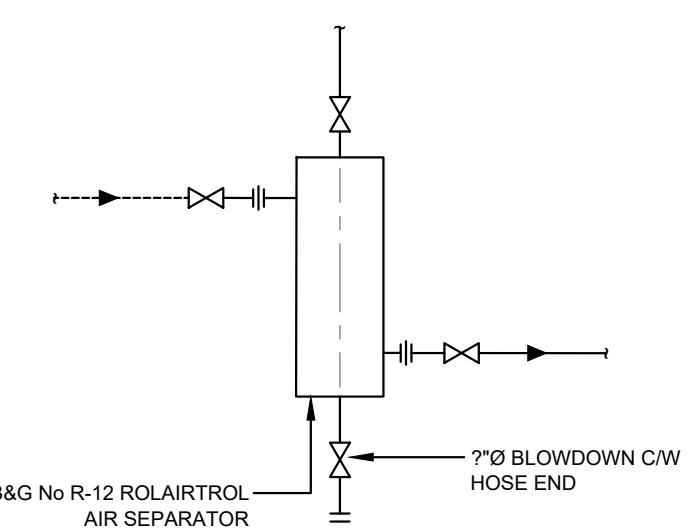
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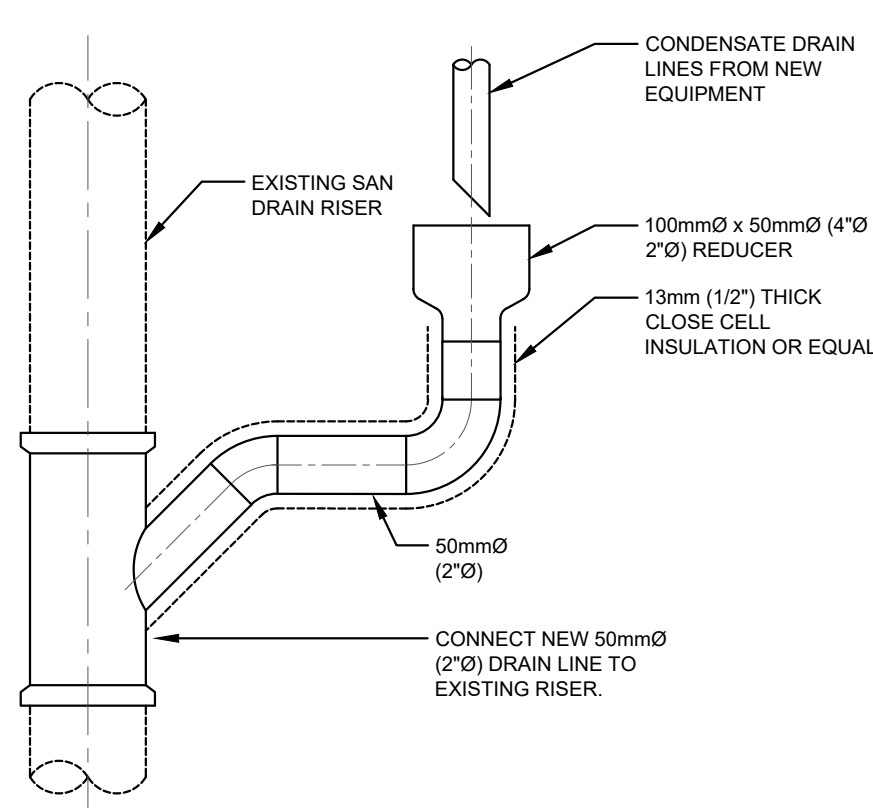
5 WATER METER AND ASSEMBLY
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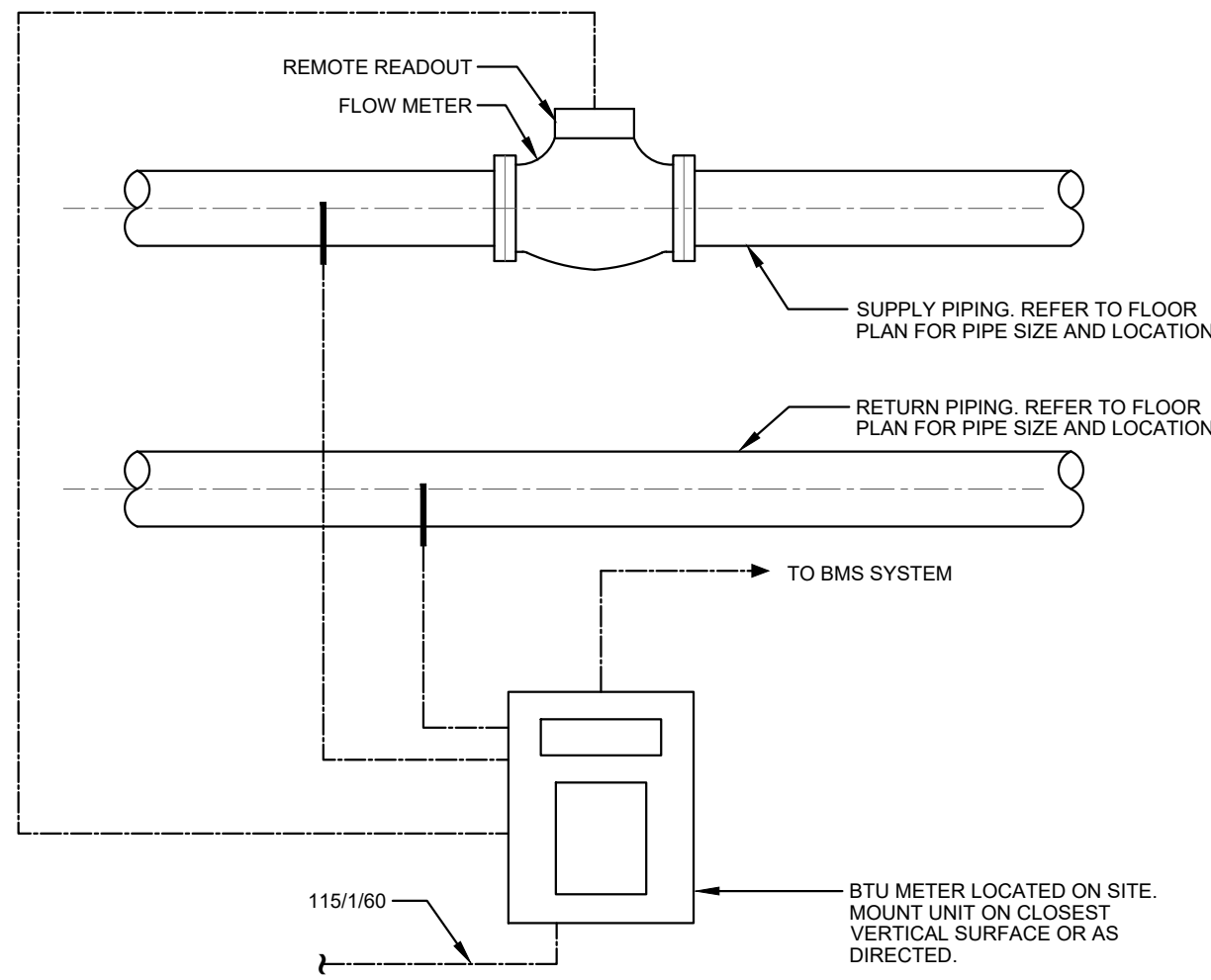
4 PIPE HANGER (CHILLED & COLD WATER)
M-900.1 SCALE: N.T.S.



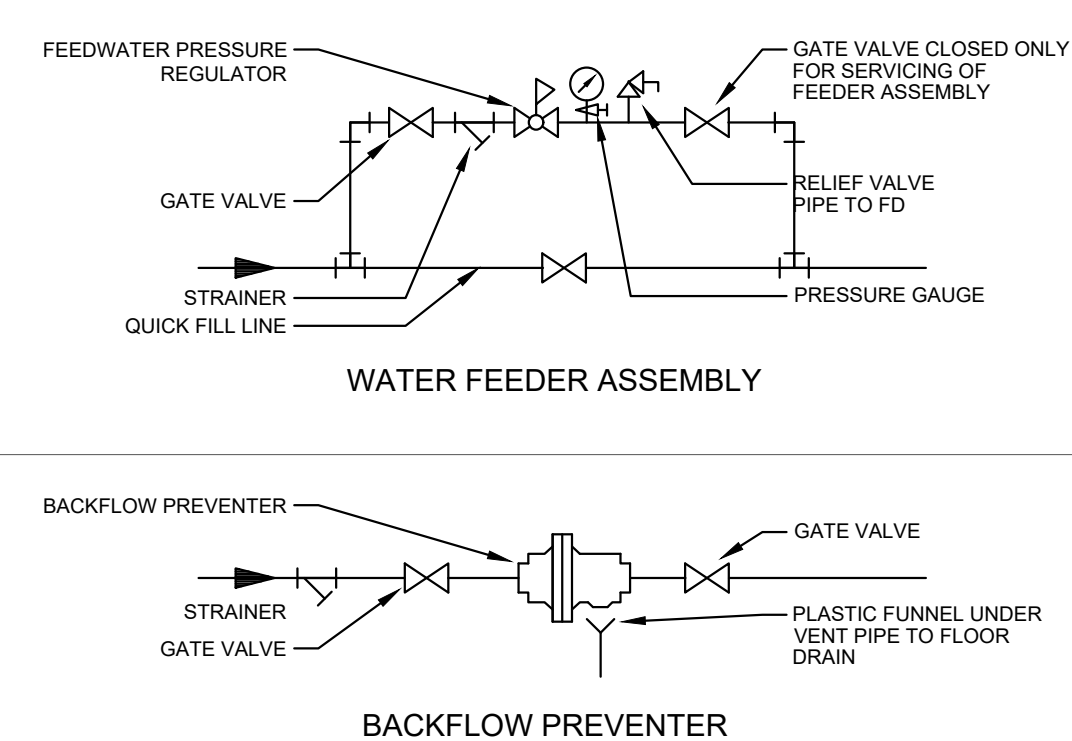
3 AIR SEPARATOR
M-900.1 SCALE: N.T.S.



8 CONDENSATE DRAIN TERMINATION
M-900.1 SCALE: N.T.S.



7 ENERGY METER CONNECTION
M-900.1 SCALE: N.T.S.



6 PRESSURE REDUCING VALVE, WATER FEEDER & BACKFLOW PREVENTER
M-900.1 SCALE: N.T.S.

ISSUED FOR TENDER	2024-11-08
ISSUED FOR PROGRESS	2024-08-23
ISSUED FOR COORDINATION	2024-08-15
ISSUED FOR CLASS C COSTING	2024-07-30
revision	date

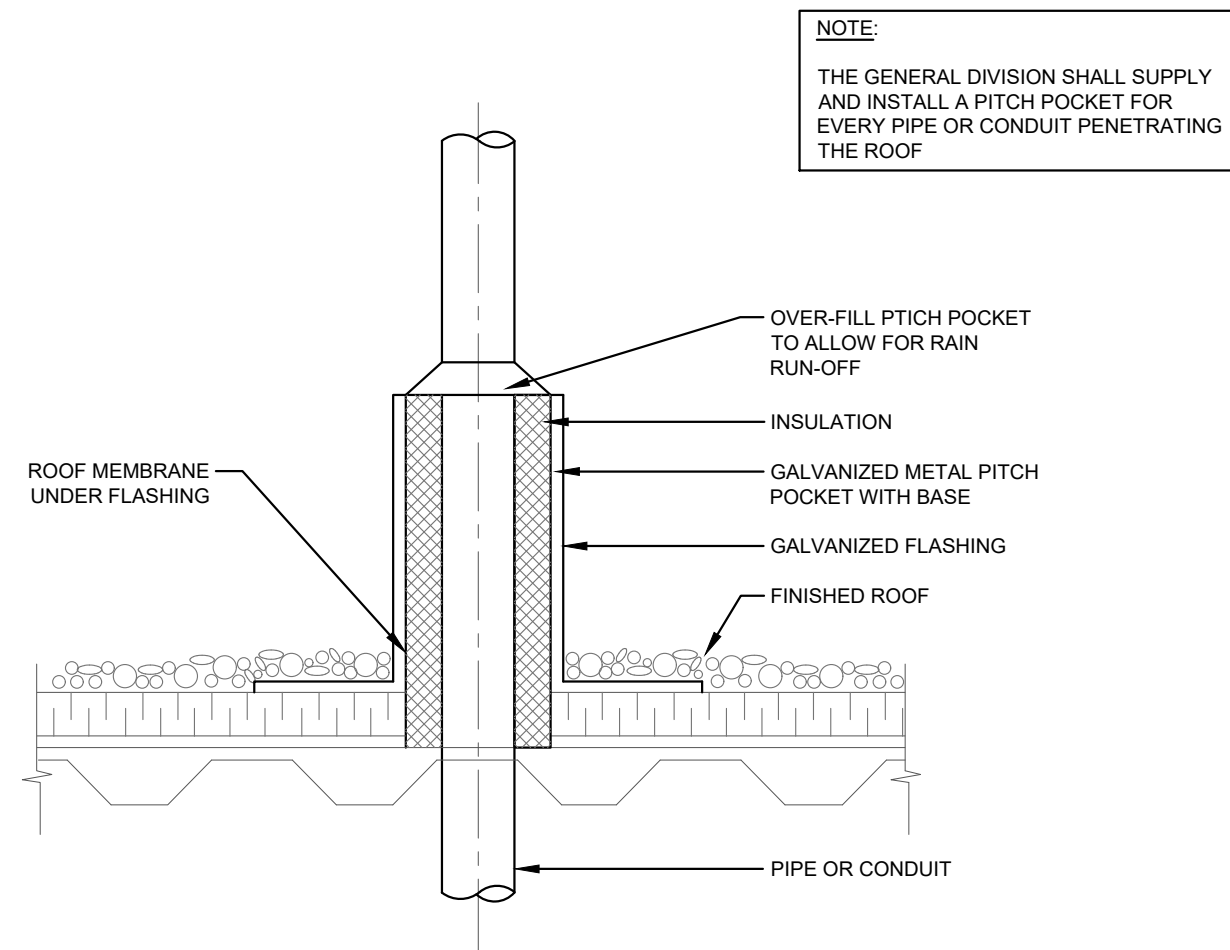
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MECHANICAL DETAILS I -
SEPARATE PRICE 1

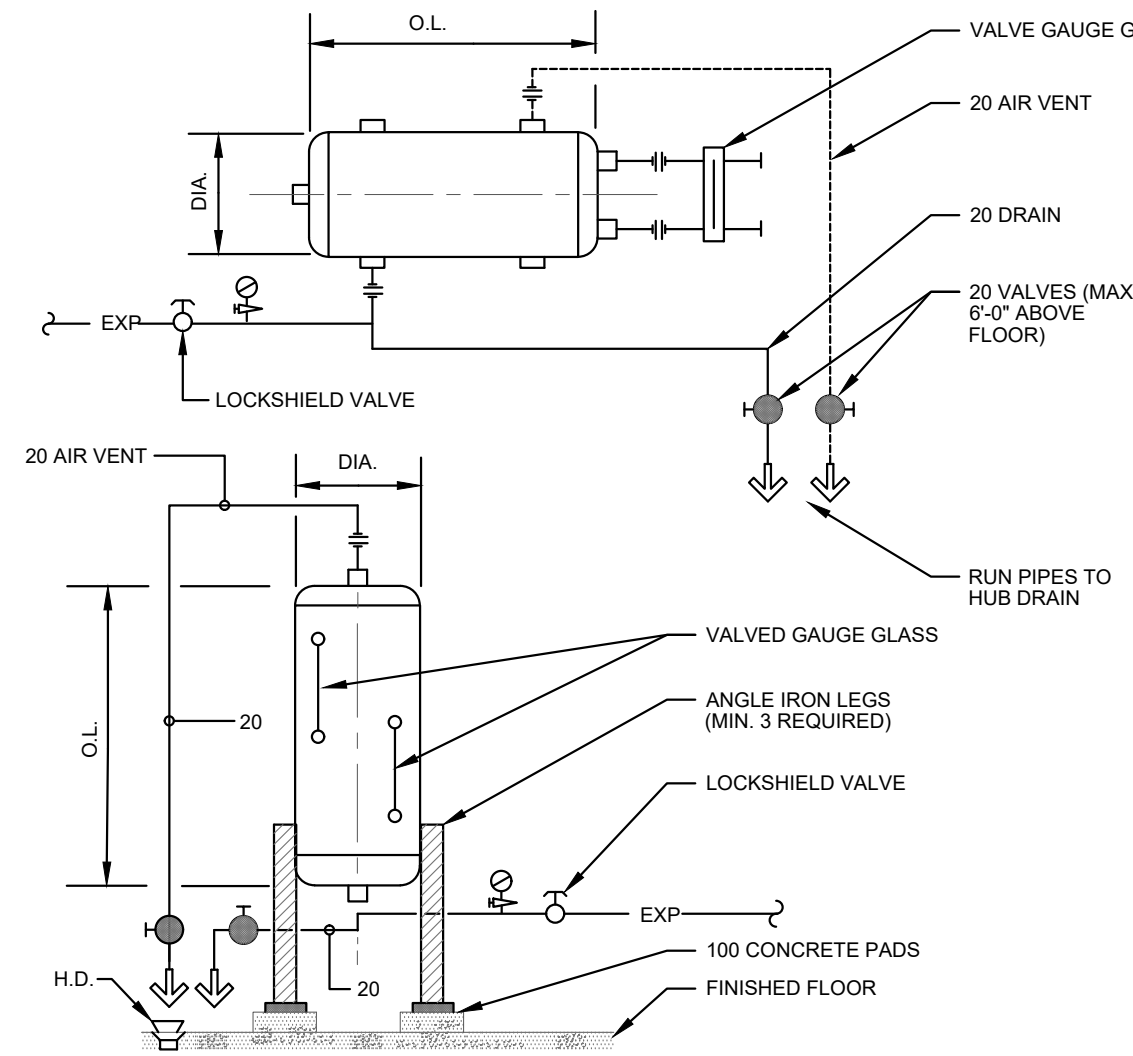
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scale: N.T.S.
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drawing no.:

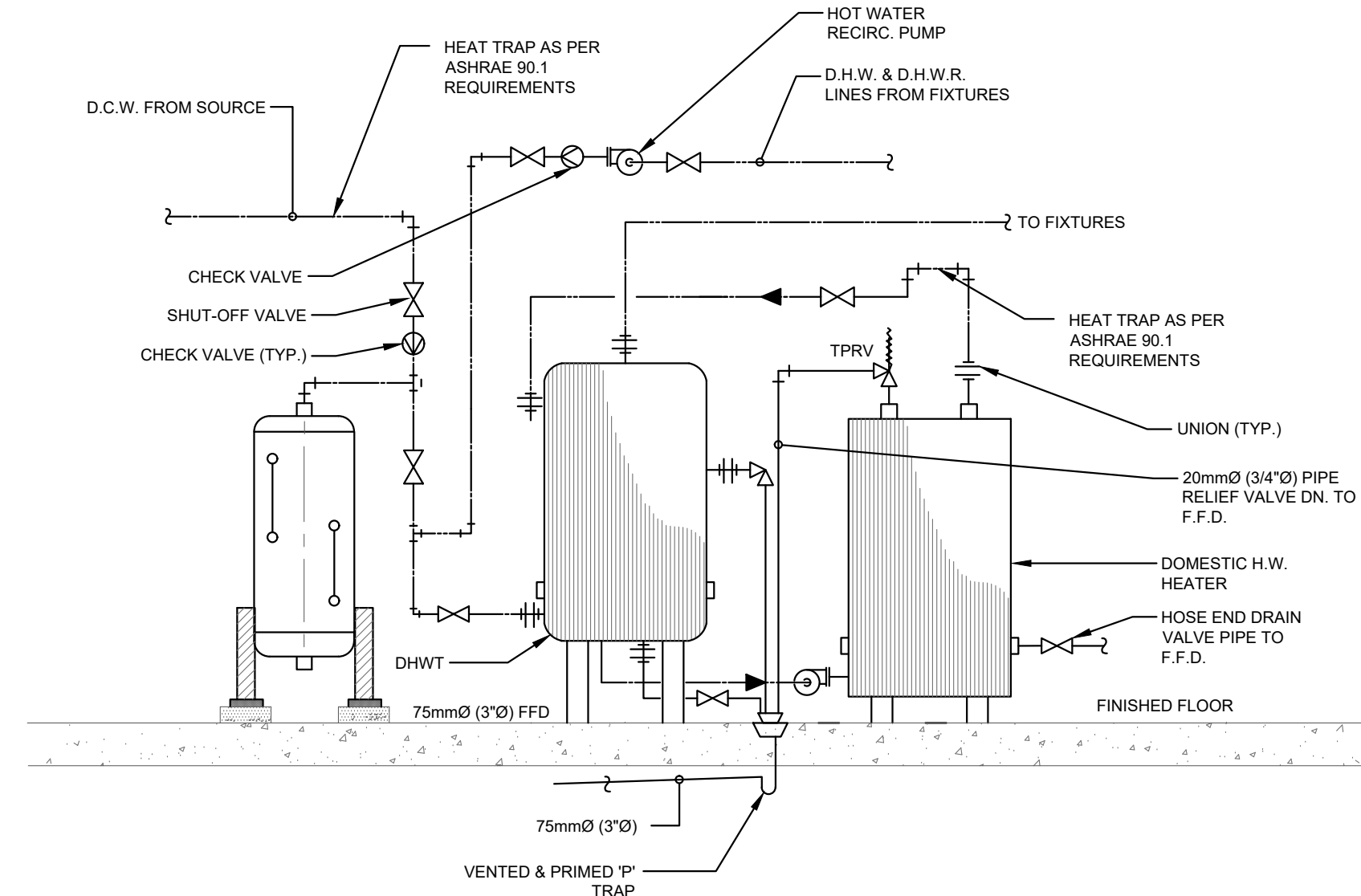
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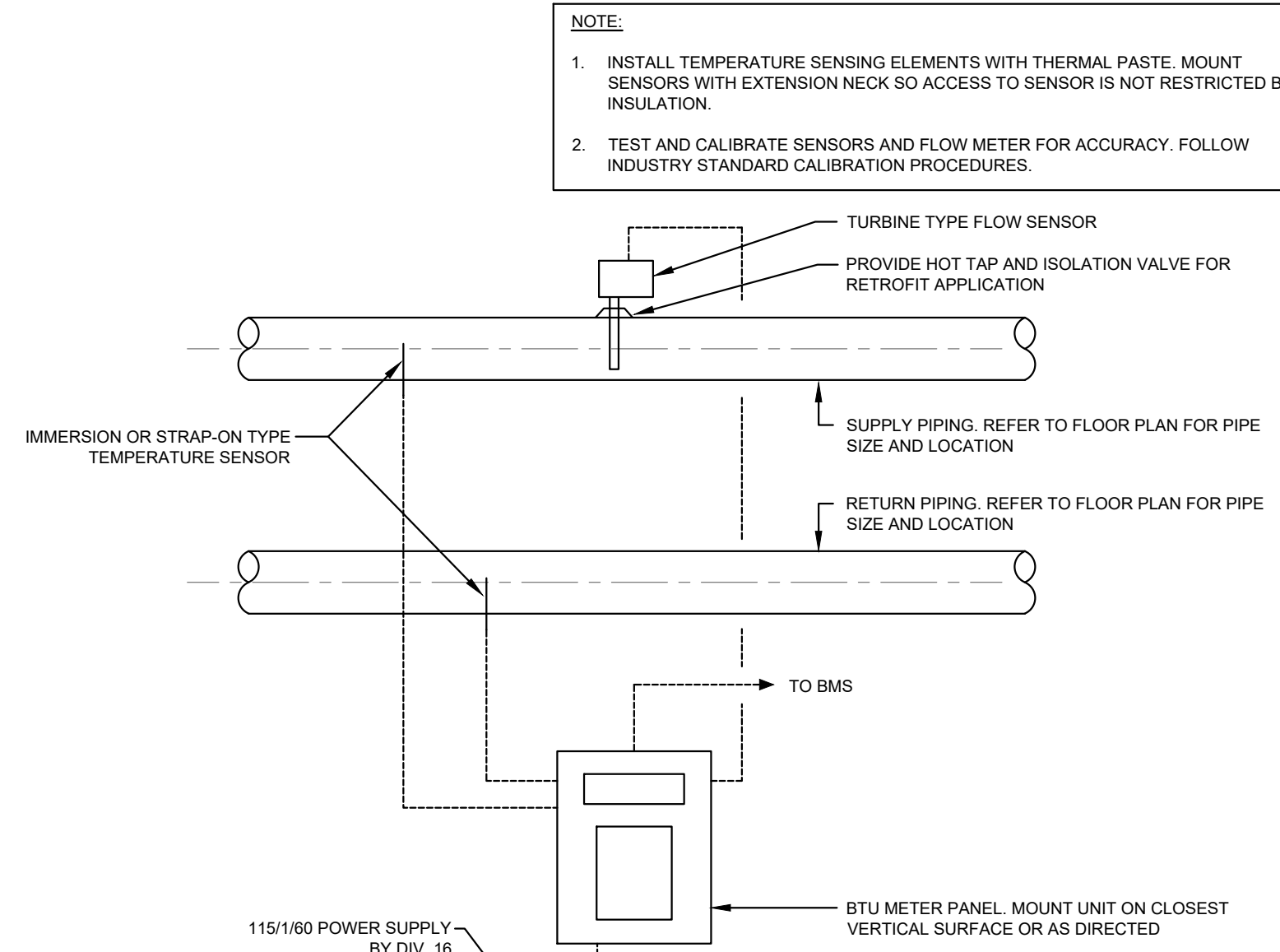
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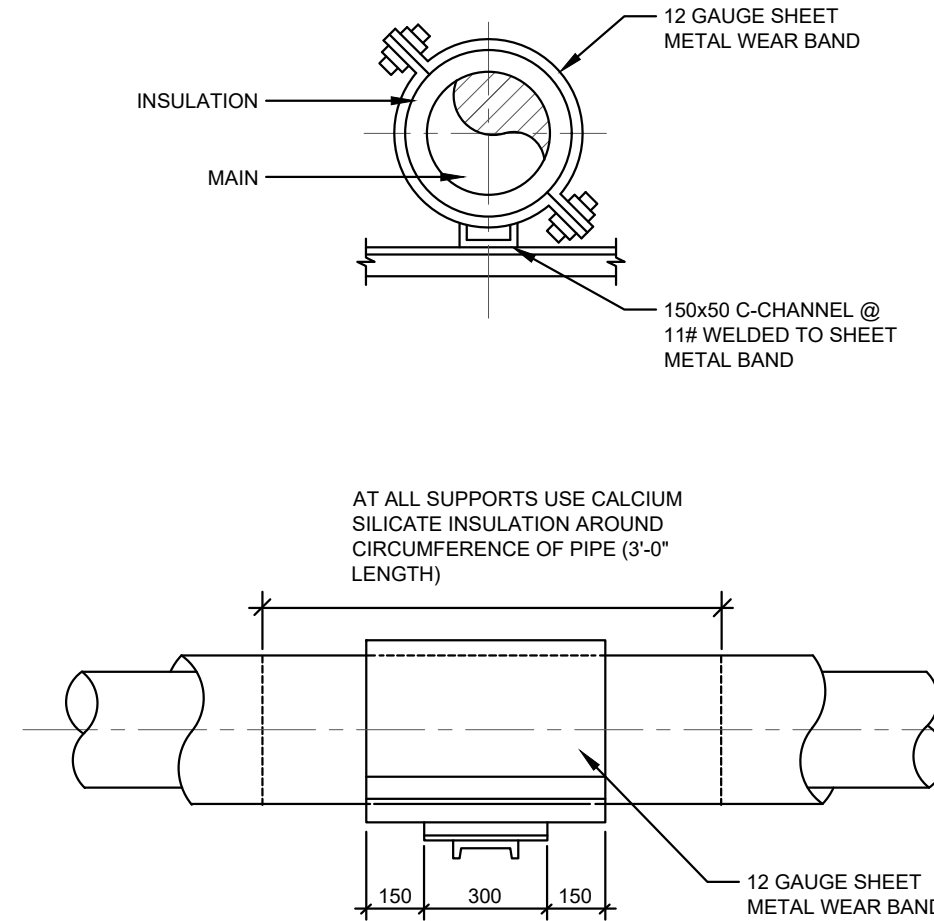
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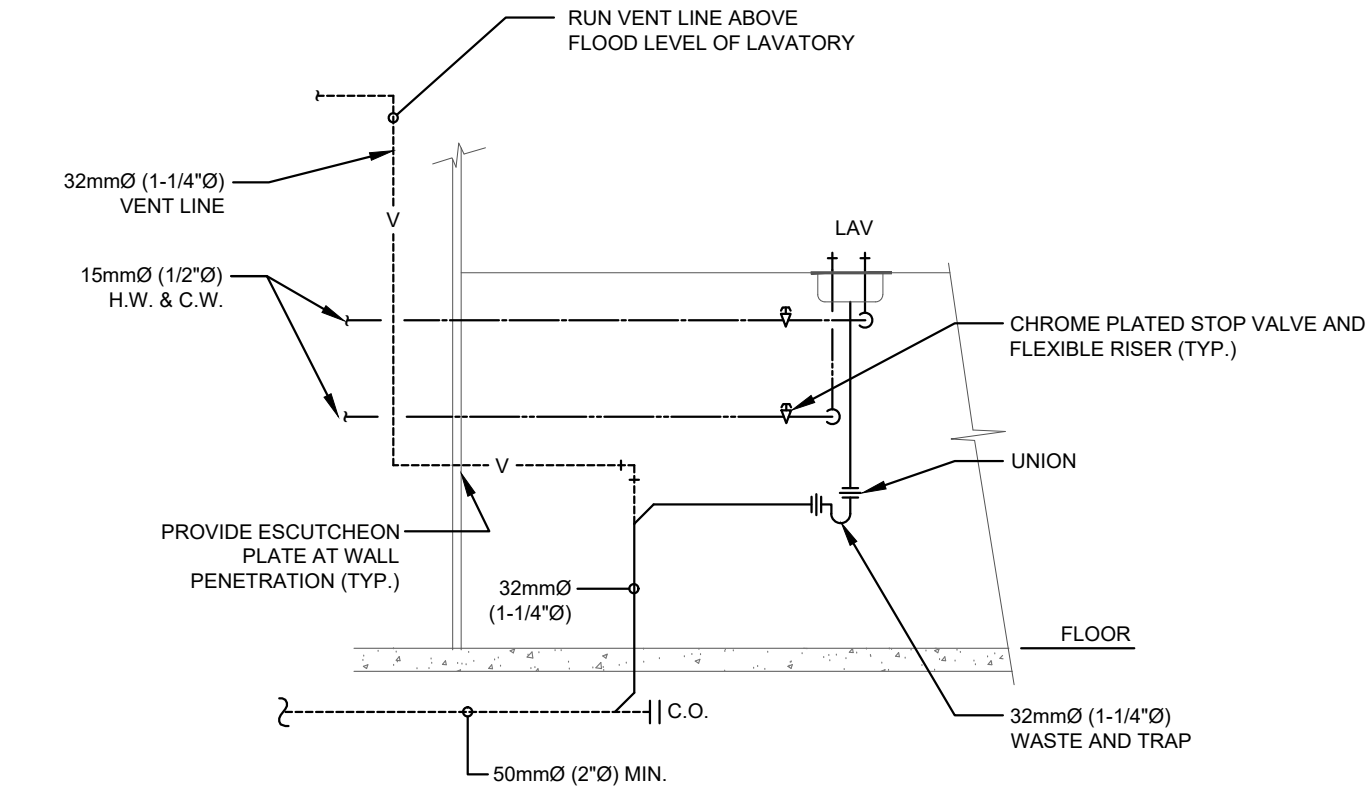
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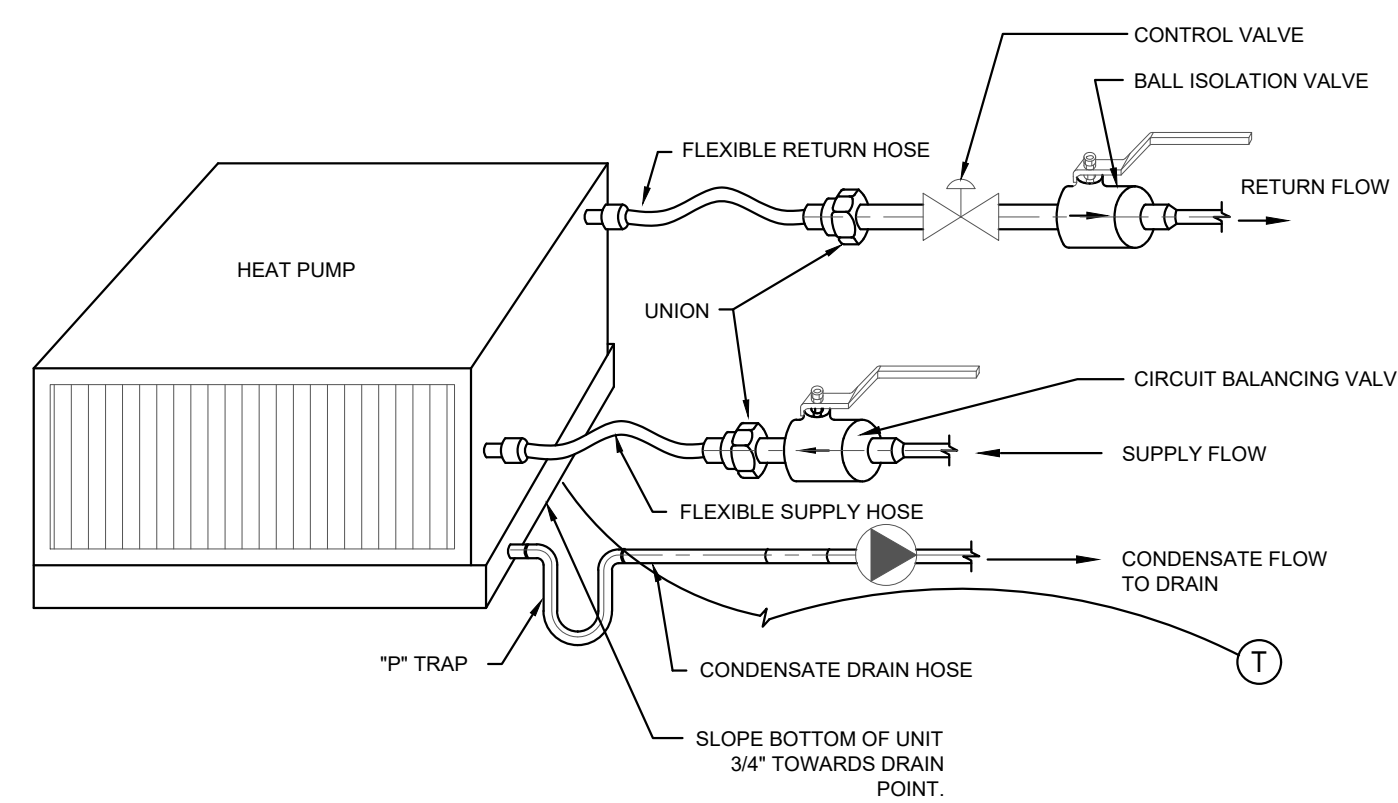
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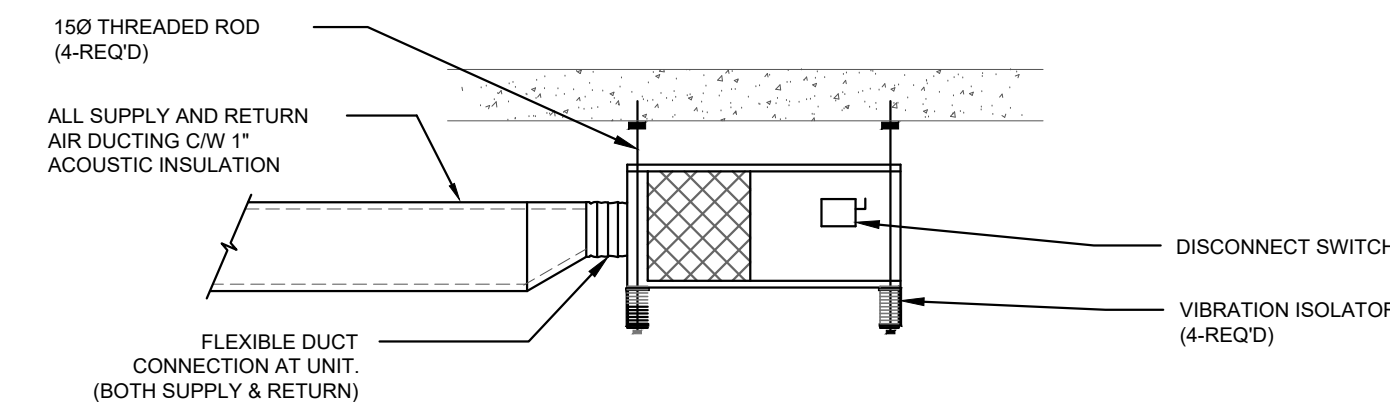
5 PIPE SUPPORT (COLD SYSTEMS)
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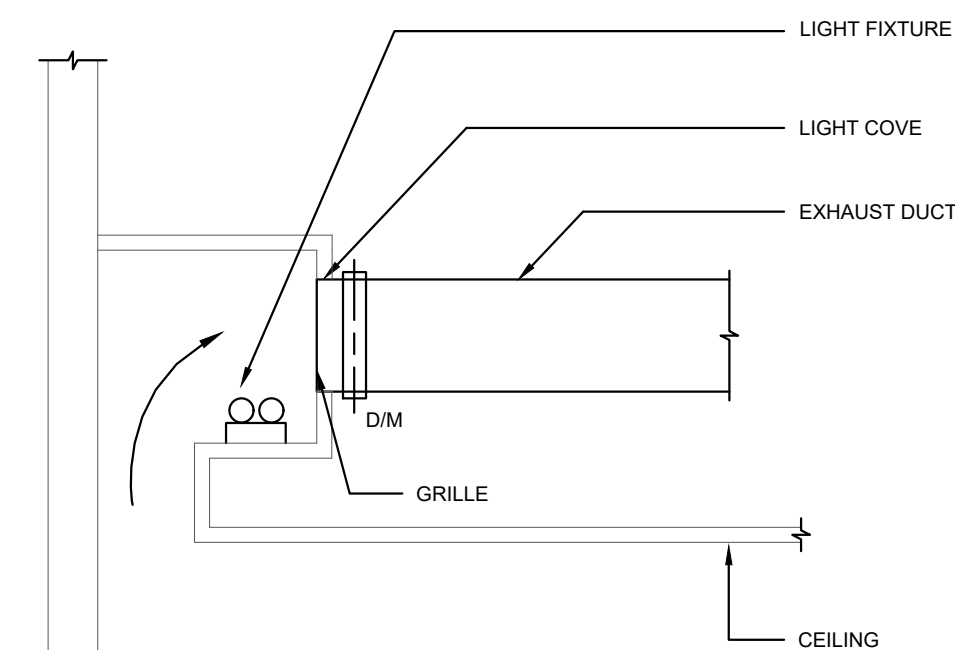
4 LAVATORY PIPING CONNECTION
SCALE: N.T.S.



9 HORIZONTAL HEAT PUMP PIPING DETAIL
SCALE: N.T.S.



8 HORIZONTAL HEAT PUMP MOUNTING DETAIL
SCALE: N.T.S.



7 LIGHT COVE EXHAUST
SCALE: N.T.S.

ISSUED FOR TENDER	2024-11-08
ISSUED FOR PROGRESS	2024-08-23
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ISSUED FOR CLASS C COSTING	2024-07-30
revision	2024-06-26

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MECHANICAL DETAILS II -
SEPARATE PRICE 1

project no.: 2024-0112
scale: N.T.S.
date:

drawing no.:

M-901.1