

- GENERAL DIESEL NOTES

1.

CONTRACTOR SHALL ENSURE THAT ALL ULC LABELS ON ALL DIESEL ACCESSORIES AND FITTINGS (PIPING, VALVES, TANK ETC.).

2.

CONTRACTOR WILL TEST & COMMISSION THE DIESEL GENERATOR AND FUEL SYSTEM AT END OF CONSTRUCTION. FILL OUT AND COMPLETE COMMISSIONING REPORT AS PER TENDER SPECIFICATIONS.

3.

CONTRACTOR SHALL REMOVE UNUSED TANKS, PIPES, FITTINGS AND OTHER RELATED ITEMS FROM THE SITE AT THE END OF CONSTRUCTION.

4.

CONTRACTOR SHALL SIGN AND COMPLETE ALL TSSA COMPREHENSIVE CHECKLISTS AT THE END OF CONSTRUCTION.

5.

UNLESS OTHERWISE NOTED, ALL EQUIPEMENT, ACCESSORIES SHALL BE ULC.
- SCOPE OF WORK

1.

REMOVE AND DISPOSE OF EXISTING DIESEL GENERATOR, FILL & VENT POINTS AND DIESEL PIPING AS PER CSA B-139.

2.

DISCONNECT EXISTING TANK AND TRANSFER EXISTING FUEL TO NEW SUBBASE TANK

3.

REMOVE AND DISPOSE OF EXISTING DIESEL TANK AS PER CSA B-139.

4.

POUR NEW CONCRETE PAD FOR GENERATOR AS PER ATTACHED DRAWING.

5.

SUPPLY AND INSTALL NEW FENCING AROUND CONCRETE PAD AS PER ATTACHED DRAWING

6.

NEW REDUNDANT SYSTEM AS PER DRAWING.

7.

CONTRACTOR SHALL PROVIDE A TEMPORARY DIESEL GENERATOR DURING THE CONSTRUCTION PERIOD TO ENSURE GENERATOR OPERATION.

- WORKING NOTES:
- 1

EXISTING OVER-HEAD CABLE TO BE DISCONNECTED FROM EXISTING GENERATOR.
- 2

EXISTING TANK AND ITS ACCESSORIES TO BE DISCONNECTED, REMOVED AND DISPOSED OF AS PER CSA B-139.
- 3

EXISTING F.O.S. AND F.O.R. LINE TO BE REMOVED.
- 4

REMOVE EXISTING EMERGENCY FIRE VALVE.
- 5

REMOVE EXISTING FLEX CONNECTIONS.
- 6

EXISTING GENERATOR, MUFFLER, INTAKE DAMPERS AND ALL ACCESSORIES TO BE DISCONNECTED AND REMOVED.
- 7

EXISTING INTAKE ACTUATORS TO BE REMOVED.
- 8

EXISTING FRONT-GATE TO BE REMOVED.
- 9

NEW OVER-HEAD CABLE TO BE CONNECTED TO THE NEW GENERATOR.
- 10

FILL IN THE WALL OPENINGS WITH WEATHER-PROOF STEEL-SHEETS.
- 11

NEW GENERATOR CONCRETE PAD FOR THE GENERATOR & TANK.
- 12

NEW DIESEL STORAGE TANK AND GENERATOR AS PER SCHEDULE.
- 13

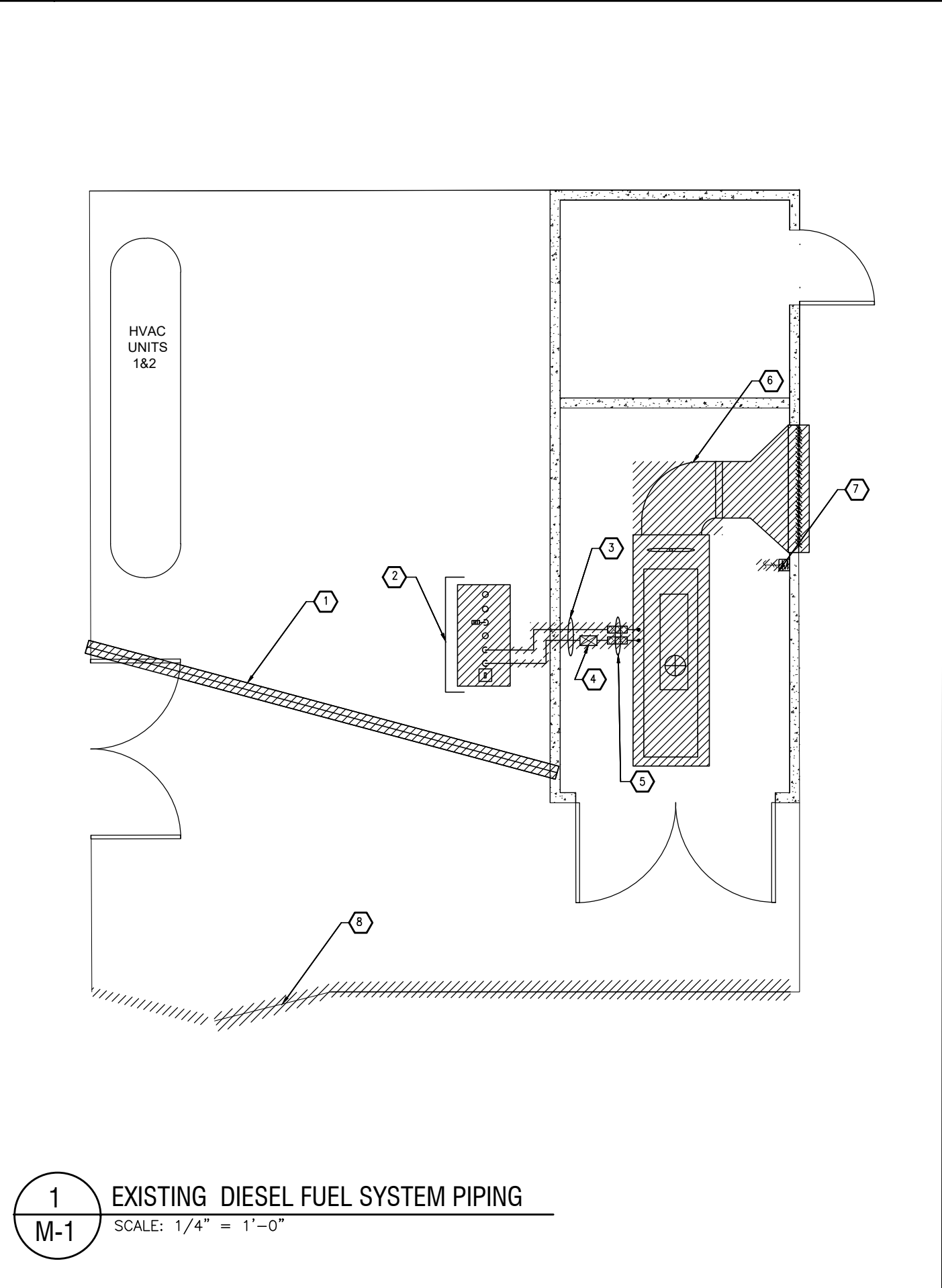
NEW ULC ALBANY LEVCON 2; TO BE SUPPLIED BY THE GENERATOR MANUFACTURE.
- 14

NEW 2" ULC VENT TO BE SUPPLIED BY THE GENERATOR MANUFACTURER.
- 15

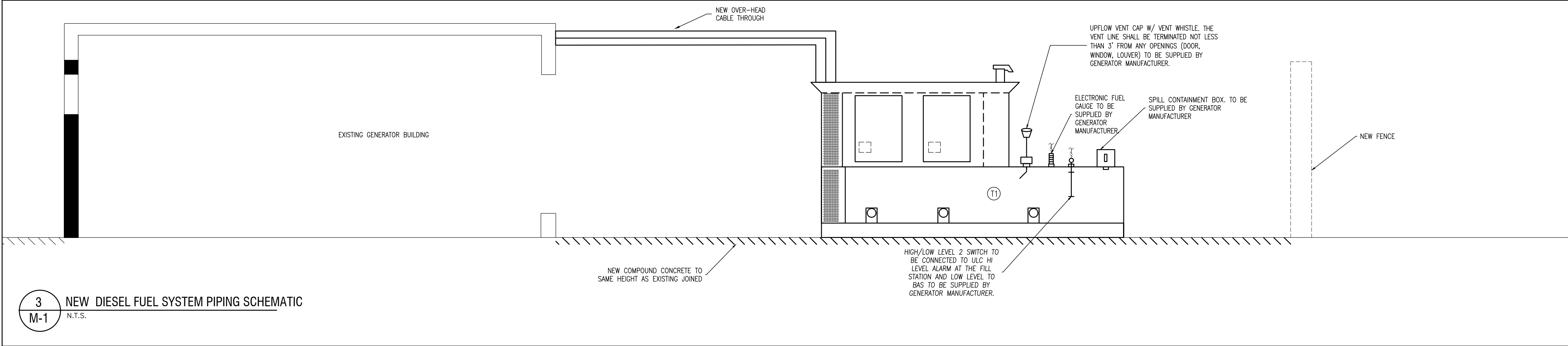
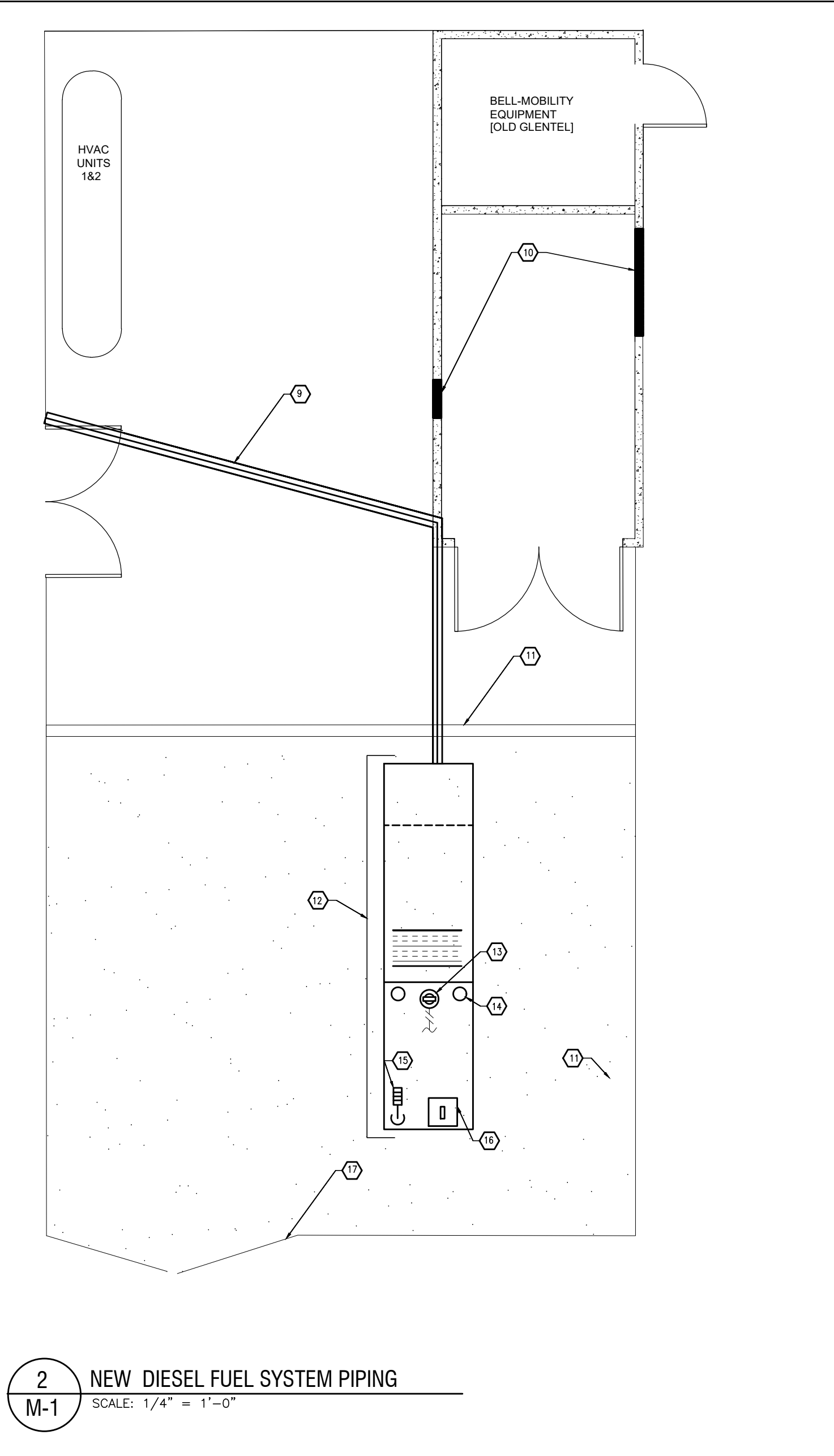
NEW 2" LEVEL GAUGE TO BE SUPPLIED BY THE GENERATOR MANUFACTURER.
- 16

NEW 2" ULC SPILL BOX TO BE INSTALLED DIRECTLY ABOVE THE TANK BUNG, CONTINUE WITH OVERFILL PROTECTION VALVE WHICH WOULD BE SUPPLIED BY THE GENERATOR MANUFACTURER.
- 17

NEW FENCING AND GATES WITH 10 FT. WITH CLEAR OPENING. LEFT GATE CONTAINS 3 FT. MAN GATE.



FUEL OIL TANK SCHEDULE					
TAG	MAKE	MODEL	CAPACITY	LOCATION	REMARKS
11	T&T POWER GROUP	PERKINS 11040-E44TG1, TIER 3	1700 LITERS	SUB BASE TANK THAT IS ATTACHED TO THE GENERATOR	SUB BASE FUEL TANK, DUAL WALL, ULC APPROVED ROCHESTER (TWIN SITE) ELECTRONIC FUEL GAUGE (240-33 OHMS). LOW FUEL, FUEL LEAK DETECTION ALARM, FUEL TANK TEMPERATURE MONITORING CAPABILITY. FUEL TANK VENTS, SPILL BOX AND PIPING VENTED TO ATMOSPHERE AS PER TSSA VENT WHISTLE AND ELECTRONIC FUEL OVERFILL ALARM AS PER TSSA



MECHANICAL LEGEND	
SYMBOL	DESCRIPTION
	EXISTING EQUIPMENT/DUCTWORK / PIPING
	NEW EQUIPMENT / DUCTWORK / PIPING
	EXISTING DUCTWORK/PIPING/EQUIPMENT TO BE REMOVED
	PIPE CONTINUATION
	CONNECT TO EXISTING
	EXISTING EQUIPMENT TO BE RELOCATED
	RELOCATED EQUIPMENT AT NEW LOCATION
	END CAP
	FUEL OIL RETURN
	FUEL OIL SUPPLY
	FILL LINE
	VENT LINE
	GAUGE
	ANTI SIPHON VALVE
	PRESSURE RELIEF VALVE
	CONTROL WIRING
	FIRE VALVE
	ISOLATION VALVE
	CHECK VALVE
	FLEXIBLE CONNECTION
	STEEL PIPE SLEEVE WITH FIRE RATED AND/OR WEATHERPROOF MATERIAL

1.	ISSUED FOR CLIENT REVIEW	JUNE 2023
No.	Description	Date
ISSUES/REVISIONS		



PROJECT		
DRAWING TITLE		
DIESEL FUEL SYSTEM UPGRADE		
DATE	JUNE 2023	PROJECT NO.
SCALE	1/4" = 1'-0"	MF23031
DRAWN	H.W	MECHANICAL
DESIGNED	A.S.	DRAWING NO.
CHECKED	A.S.	M-1