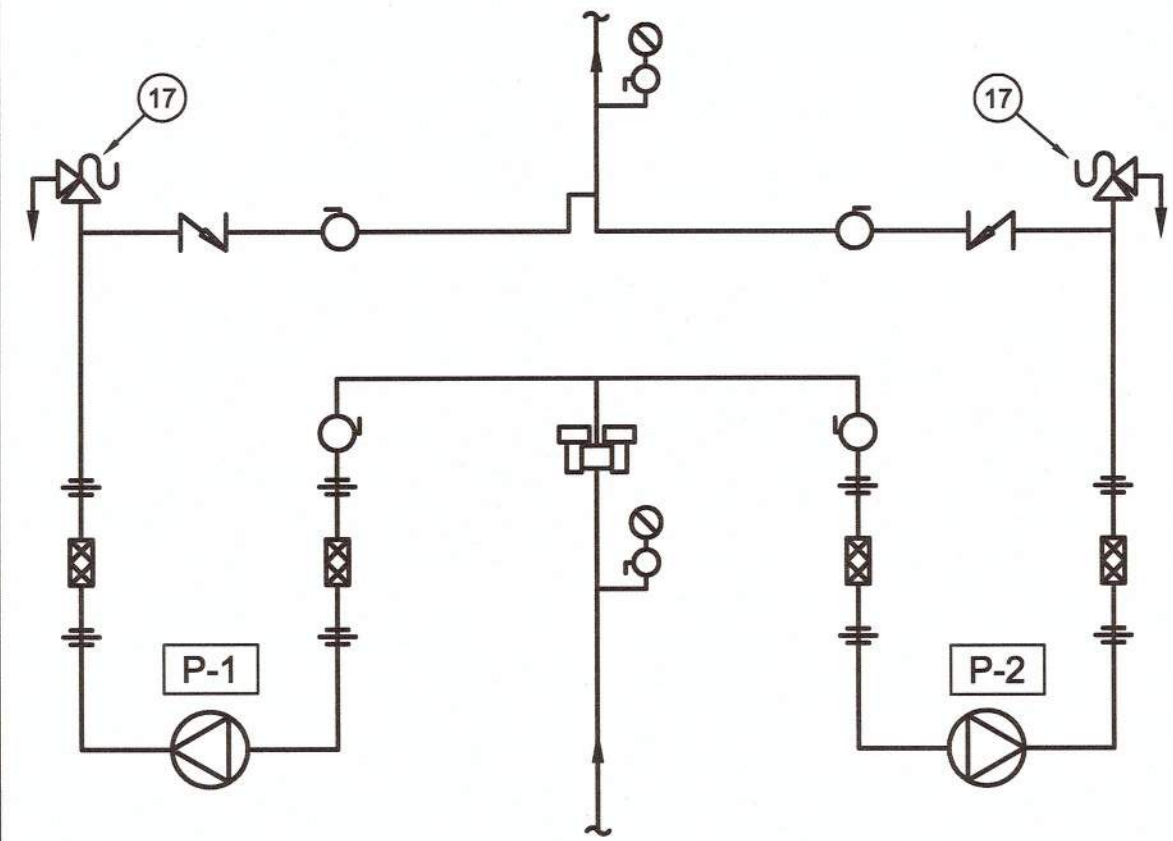


PUMP SCHEDULE										
ID	FLUID	CAPACITY		HP	ELECTRICAL				RPM	COMMENTS
		FLOW (L/h)	HEAD (kPa)		VOLTS	PHASE	HZ			
P-1	NO. 2 FUEL-OIL	350	30	0.5	120	1	60		1800	2
P-2	NO. 2 FUEL-OIL	350	30	0.5	120	1	60		1800	2
P-T	NO. 2 FUEL-OIL	350	30	0.5	120	1	60		1800	1,2

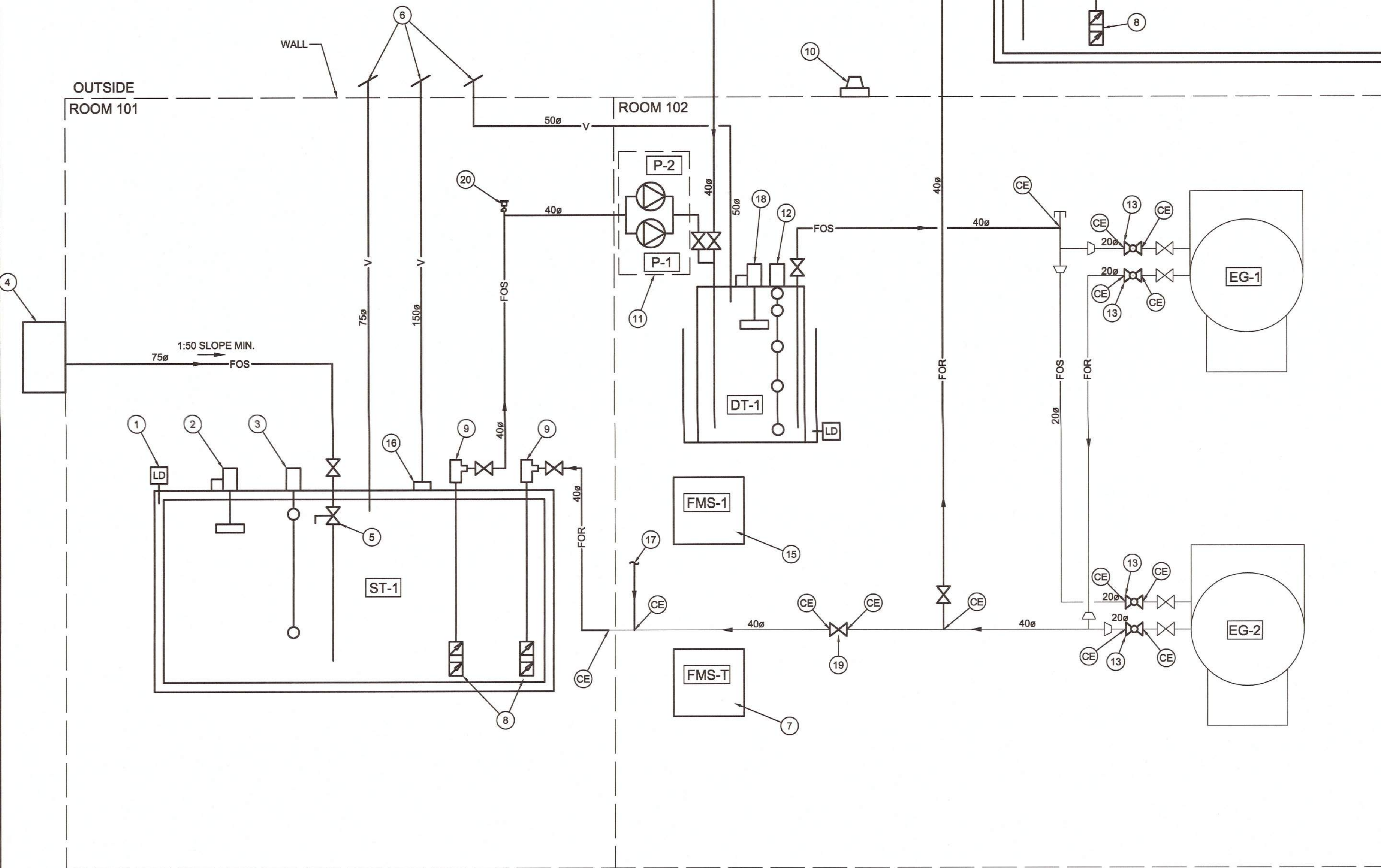
COMMENTS:

1 - TEMPORARY INSTALLATION FOR TEMPORARY SUPPLY TANK. SUPPLIED WITH AND MOUNTED ON TEMPORARY TANK.

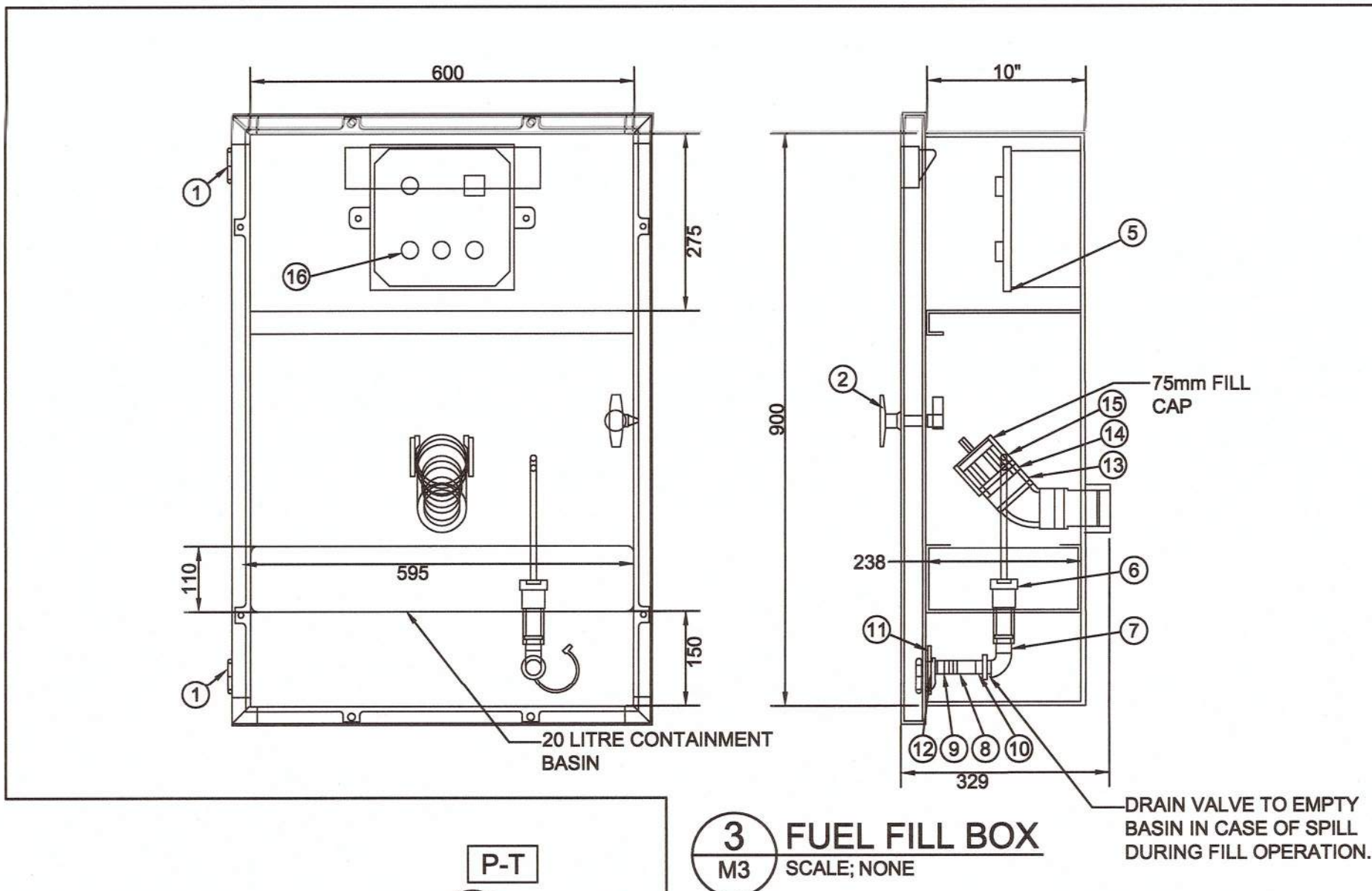
2 - PUMPS INSTALLED AND CONNECTED TO CONTROL PANEL BY DIVISION 23. POWER TO CONTROL PANEL FOR PUMPS INSTALLED AND CONNECTED TO CONTROL PANEL BY DIVISION 25.



2 P-1 AND P-2 INSTALLATION DETAIL
M3 SCALE: NONE



1 TEMPORARY AND NEW FUEL SCHEMATIC
M3 SCALE: NONE



No.	MATERIAL	DESCRIPTION
1	STAINLESS STEEL	60mm WELDED HINGE
2	ALUMINUM	T-HANDLE WITH LOCK SPAE 097-055
3	304 STAINLESS STEEL 12 Ga.	BOX
4	304 STAINLESS STEEL 12 Ga.	DOOR
5	STEEL	BOX FOR AUDIO AND VISUAL HIGH LEVEL ALARM
6	304 STAINLESS STEEL	MANUAL VALVE OPW PC 04427
7	304 STAINLESS STEEL	ELBOW MF 90 CL 150 20mm
8	304 STAINLESS STEEL	NIPPLE 12mm x 50mm
9	ALUMINUM	QUICK CONNECT ADAPTER F NPT TYPE A 12mm
10	304 STAINLESS STEEL	REDUCER MF 20mm x 12mm
11	304 STAINLESS STEEL	150mm SECURITY CHAIN
12	ALUMINUM	NON-LOCKABLE QUICK CONNECT CAP 12mm
13	304 STAINLESS STEEL	ELBOW MF 45 CL 150 50mm
14	ALUMINUM	QUICK CONNECT ADAPTER M NPT TYPE F 50mm
15	ALUMINUM	QUICK CONNECT CAP TYPE DC 50mm
16	---	EXPLOSION PROOF OVERFILL LIGHT, HORN, AND SILENCE

GENERAL NOTES

- REFER TO DRAWING E1 FOR CONTROLS SCHEMATICS FOR FMS-1 AND FMS-T.
- ISOLATING VALVES FOR PIPING OFF ST-1, ST-T, AND DT-1 ARE TO BE INSTALLED AS CLOSE AS PRACTICABLE TO TANK CONNECTIONS.

DRAWING NOTES

- ST-1 VACUUM LEAK DETECTOR. CONNECT TO FMS-1.
- ST-1 FUEL LEVEL SENSOR. CONNECT TO FMS-1.
- LIQUID LEVEL SWITCH FOR ST-1. SWITCH TO BE EQUIPPED WITH TWO LEVEL SWITCHES. CONNECT TO FMS-1.
- FILL BOX MOUNTED ON EXTERIOR WALL OF ROOM 101. BOX TO BE MOUNTED 2620mm ABOVE GRADE.
- OVERFILL PREVENTION VALVE FOR ST-1 MOUNTED ON FILL LINE FOR TANK.
- VENT TERMINATION THROUGH REAR WALL OF ROOM 101. REFER TO DETAIL 4 ON DRAWING M4 FOR INSTALLATION DETAIL.
- FMS-T TO BE WALL-MOUNTED IN ROOM 102. REFER TO DRAWING M1 FOR MOUNTING HEIGHT.
- DOUBLE POPPET FOOT VALVE FOR FUEL LINE FROM FUEL TANK.
- FOOT VALVE EXTRACTOR FITTING INSTALLED AT TANK CONNECTION FOR FUEL-OIL LINE.
- NEW WALL-MOUNTED ALARM LIGHT FOR DIESEL TANK SYSTEM. REFER TO DRAWING E1 FOR ALARM LIGHT OPERATION AND POWER DETAIL.
- DUPLEX PUMP ASSEMBLY. REFER TO DETAIL 2 FOR PUMP FITTINGS AND ACCESSORIES.
- LIQUID LEVEL SWITCH FOR DT-1. SWITCH TO BE EQUIPPED WITH FIVE LEVEL SWITCHES. CONNECT TO FMS-1 AND FMS-T.
- NEW FUSOMATIC GATE VALVE INSTALLED AS CLOSE AS PRACTICABLE TO EMERGENCY GENERATOR ON EXISTING PIPING.
- TEMPORARY FUEL TANK ST-T INSTALLED OUTSIDE OF BUILDING. ST-T IS TO HAVE SECONDARY CONTAINMENT, VACUUM LEAK DETECTION, INCLUDE PUMP P-T, AND BE INSTALLED WITH ALL ACCOUTREMENTS AND TO MEET ALL REQUIREMENTS OF ALL APPLICABLE CODES AND STANDARDS. CONNECT TO FMS-T.
- FMS-1 TO BE WALL-MOUNTED IN ROOM 102. REFER TO DRAWING M2 FOR MOUNTING HEIGHT.
- TANK MOUNTED EMERGENCY VENT CONNECTED TO VENT LINE ROUTED THROUGH WALL.
- FUEL OIL THERMAL RELIEF VALVE PIPED TO RETURN LINE TO ST-1. VALVE TO BE SIZED FOR FULL FLOW OF PUMP.
- FUEL LEVEL SENSOR FOR DT-1. SENSOR TO BE CONNECTED TO FMS-1.
- REFER TO DRAWING NOTE 2 ON DRAWING M1.
- ANTI-SIPHON VALVE TO BE INSTALLED AT HIGH POINT OF SUCTION LINE FOR PUMPS P-1 AND P-2.



CORRECTIONAL SERVICE CANADA

BOWDEN INSTITUTION
INNISFAIL, ALBERTA

Project title Projct

ELECTRICAL SUBSTATION SECONDARY TANK COMPLIANCE

Designed by Conçu par
C. McGEE

Drawn by Dessiné par
C. McGEE

Approved by Approuvé par
G. LYNCH

PWGSC Project Manager Administrateur de Projets TPSGC
S. PHYPERS

Drawing title Titre du dessin

MECHANICAL SCHEMATIC

Project no./No. du projet Drawing no./No. du dessin Revision no.

R.072042.001

M3
OF 4

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