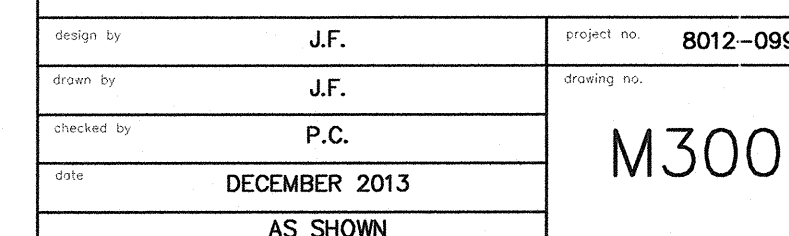
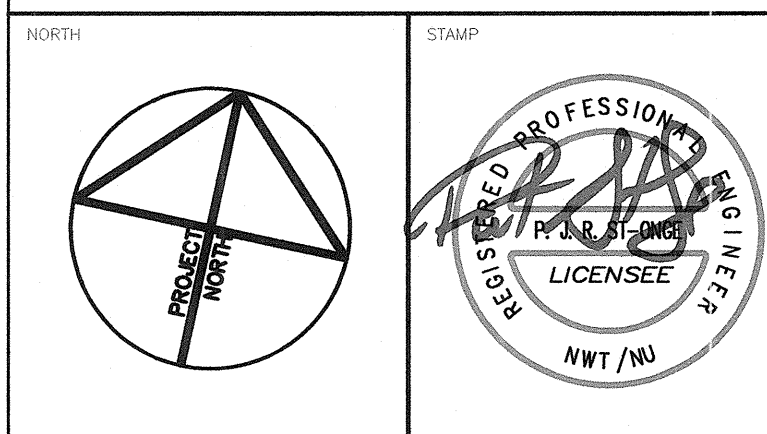
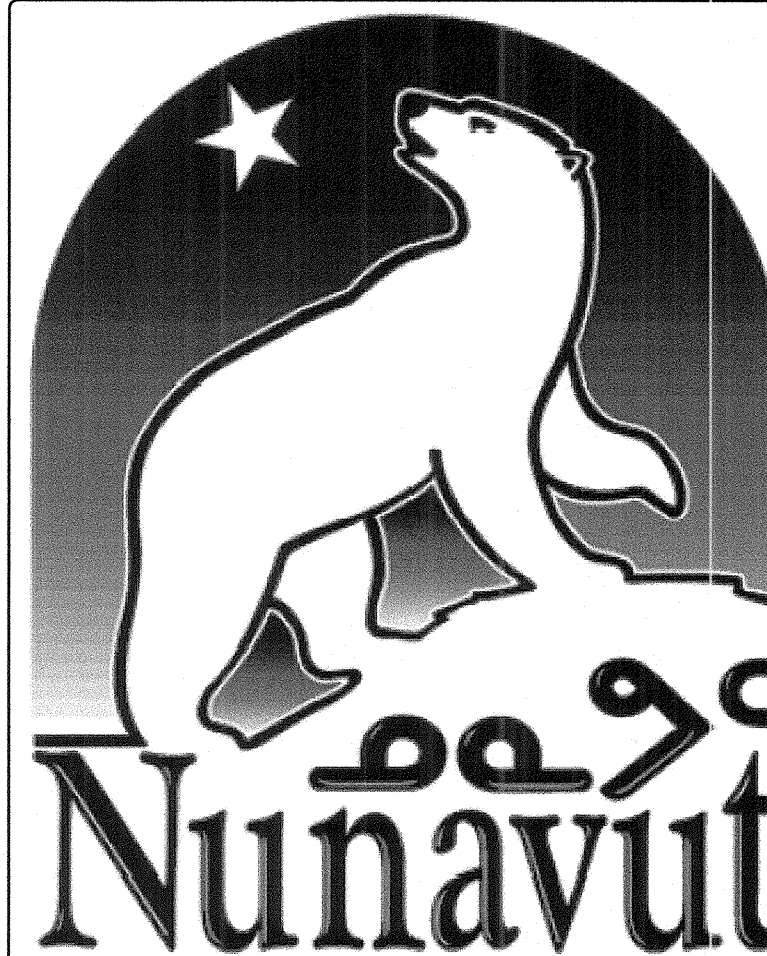


- 1 PROVIDE AND INSTALL PIPE SUPPORT ANCHORED TO THE CONCRETE SLAB.
- 2 INSTALL EXTERIOR LEVELOMETER WIRING INSIDE A NPS 2 BLACK STEEL PIPE.





NOTES: GENERAL CONTRACTOR TO VERIFY ALL DIMENSIONS WITH FINAL ARCHITECTURAL AND MECHANICAL DRAWINGS. NOTIFY THE ENGINEERS OF ANY ERRORS AND/OR OMISSIONS PRIOR TO CONSTRUCTION FOR DIRECTION. DO NOT SCALE THIS DRAWING.

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DEPARTMENT OF COMMUNITY
AND GOVERNMENT SERVICES

PROJECT
REPULSE BAY, NUNAVUT
NEW PUMPING STATION

TITLE
MECHANICAL
PLUMBING SCHEMATIC

design by	J.F.	project no.	8012-099
drawn by	J.F.	drawing no.	M301
checked by	P.C.		
date	DECEMBER 2013		
	N.T.S.		

FUEL SYSTEM SCHEMATICS PIPING AND CONTROLS SCHEMATICS

NOTES:

- ① DOUBLE WALL MAIN FUEL STORAGE TANK
- ② FST-01 FILL/VENT CONNECTION C/W LOCKING CAP (NPS-2)
- ③ FST-01 INSPECTION PORT
- ④ FUEL SUPPLY LINE TO GENERATOR'S DAY TANK (ALL NPS-3)
- ⑤ FUEL TANK VENT C/W VENT WHISTLE (NPS-2)
- ⑥ FUEL VENT LINE FROM GENERATOR'S DAY TANK (ALL NPS-2)
- ⑦ GENERATOR'S DAY TANK
- ⑧ STAINLESS STEEL FLEXIBLE CONNECTION. CONNECT TO FUEL SUPPLY AND RETURN CONNECTIONS ON ENGINE.

GENERAL NOTE:

THE SCHEMATIC DRAWING SHOWS DETAILS OF THE CONTROLS LAYOUT, EQUIPMENT CONNECTIONS AND PIPING COMPONENTS OF THE SYSTEM. REFER TO DRAWING M300 FOR DETAILS ON THE PIPING LAYOUT AND LOCATION OF EQUIPMENT.

FST-01 CONTROLS

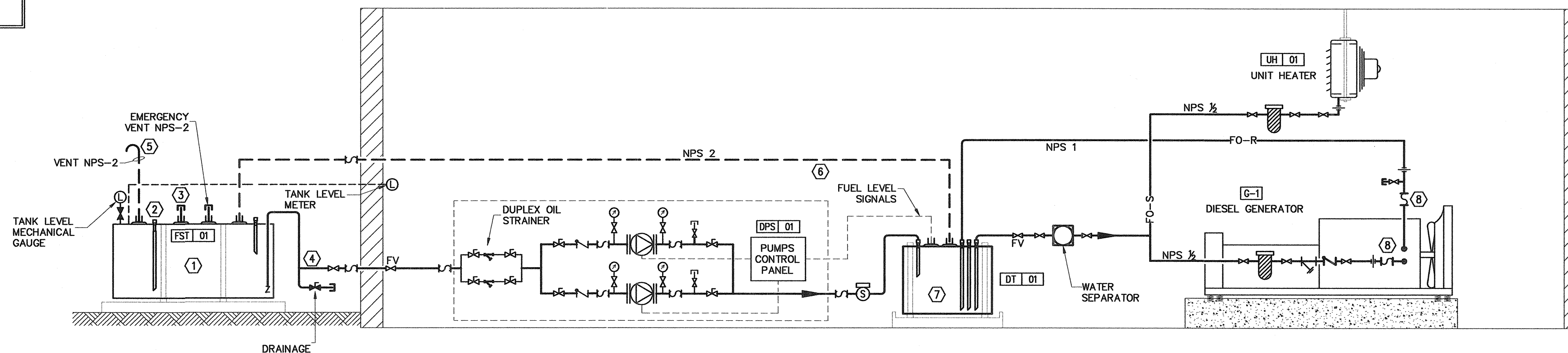
- AL FST-01 LEVEL SENSOR
- DL HIGH LEVEL SENSOR
- DL LOW LEVEL SENSOR
- DL LEAK DETECTION

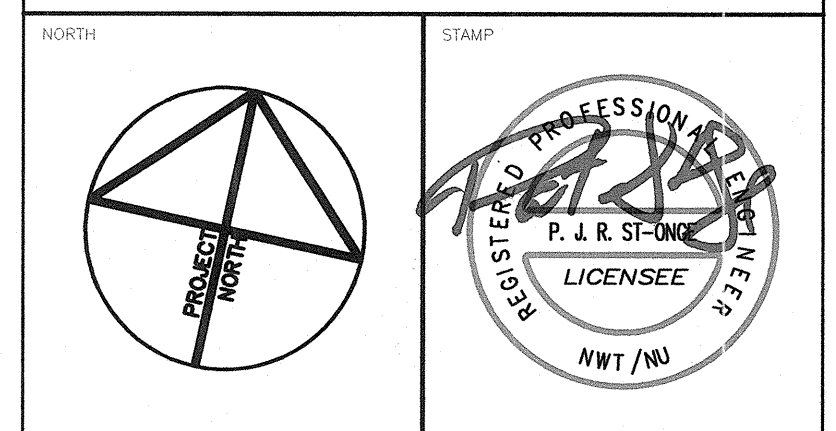
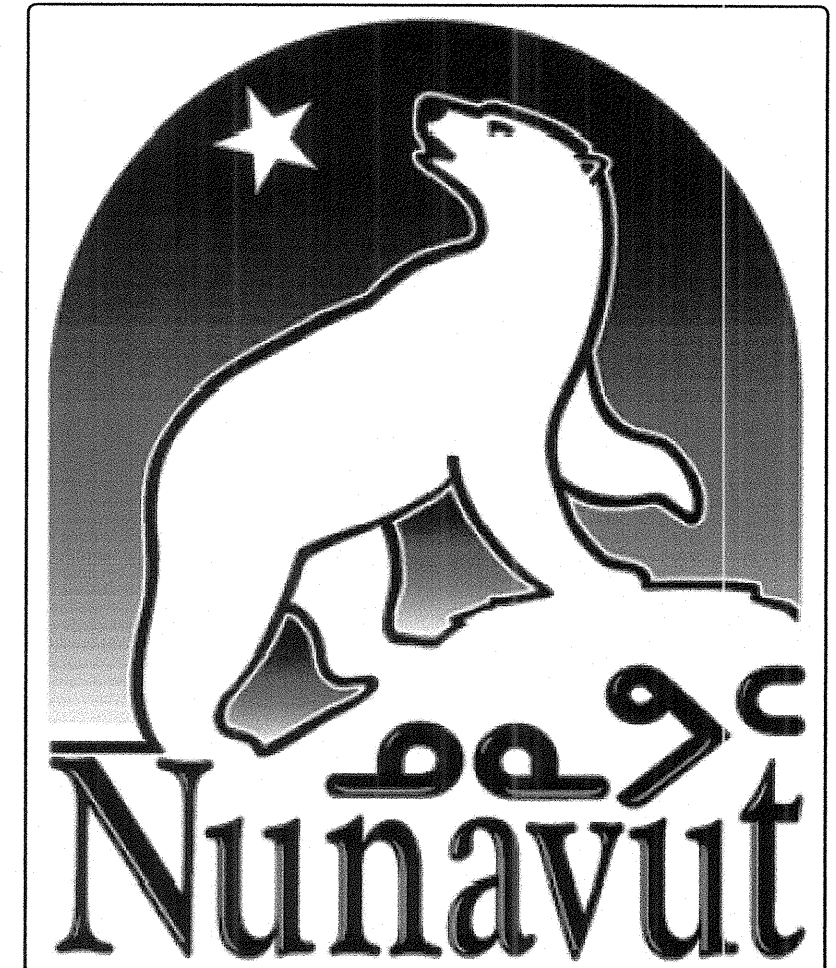
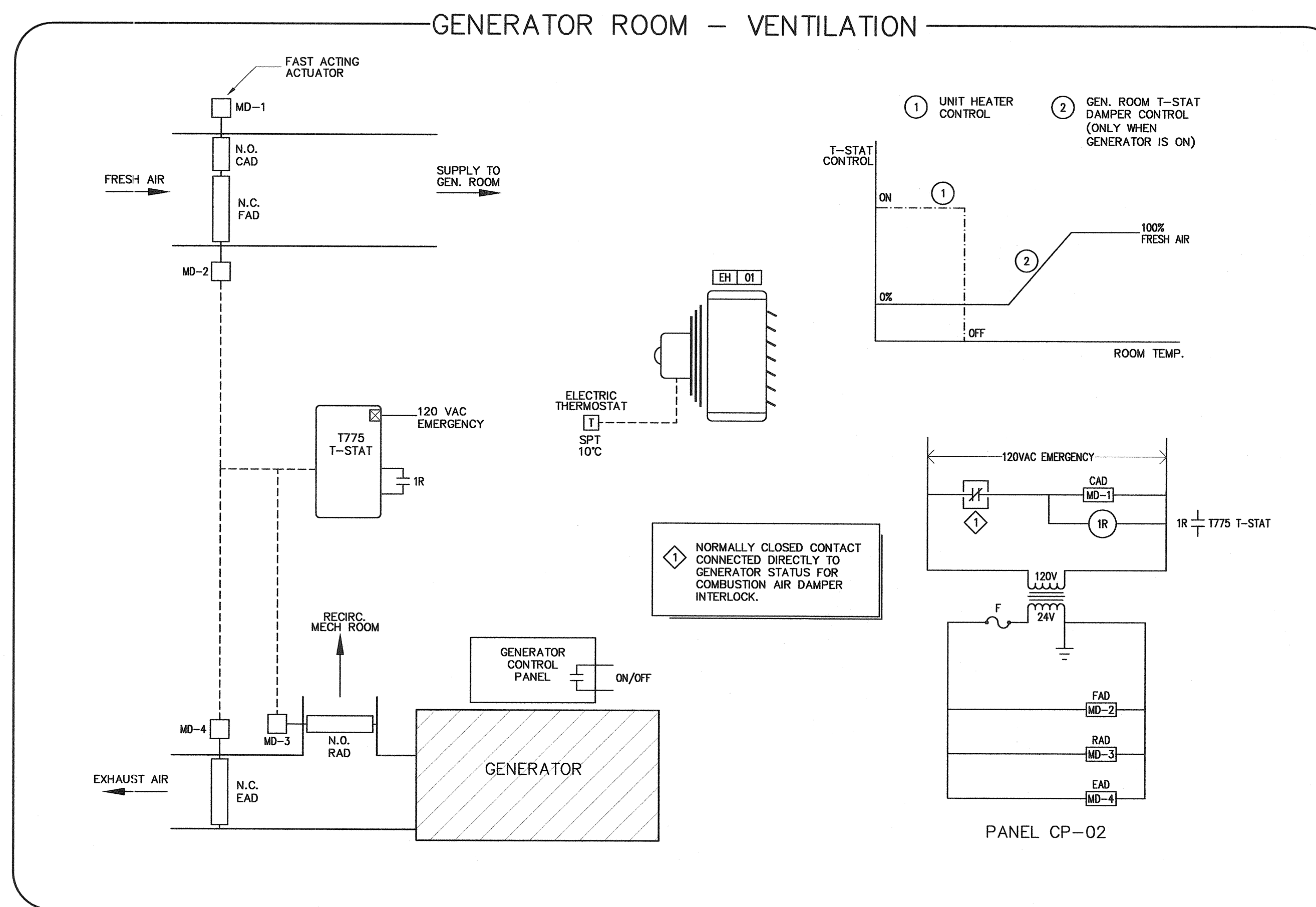
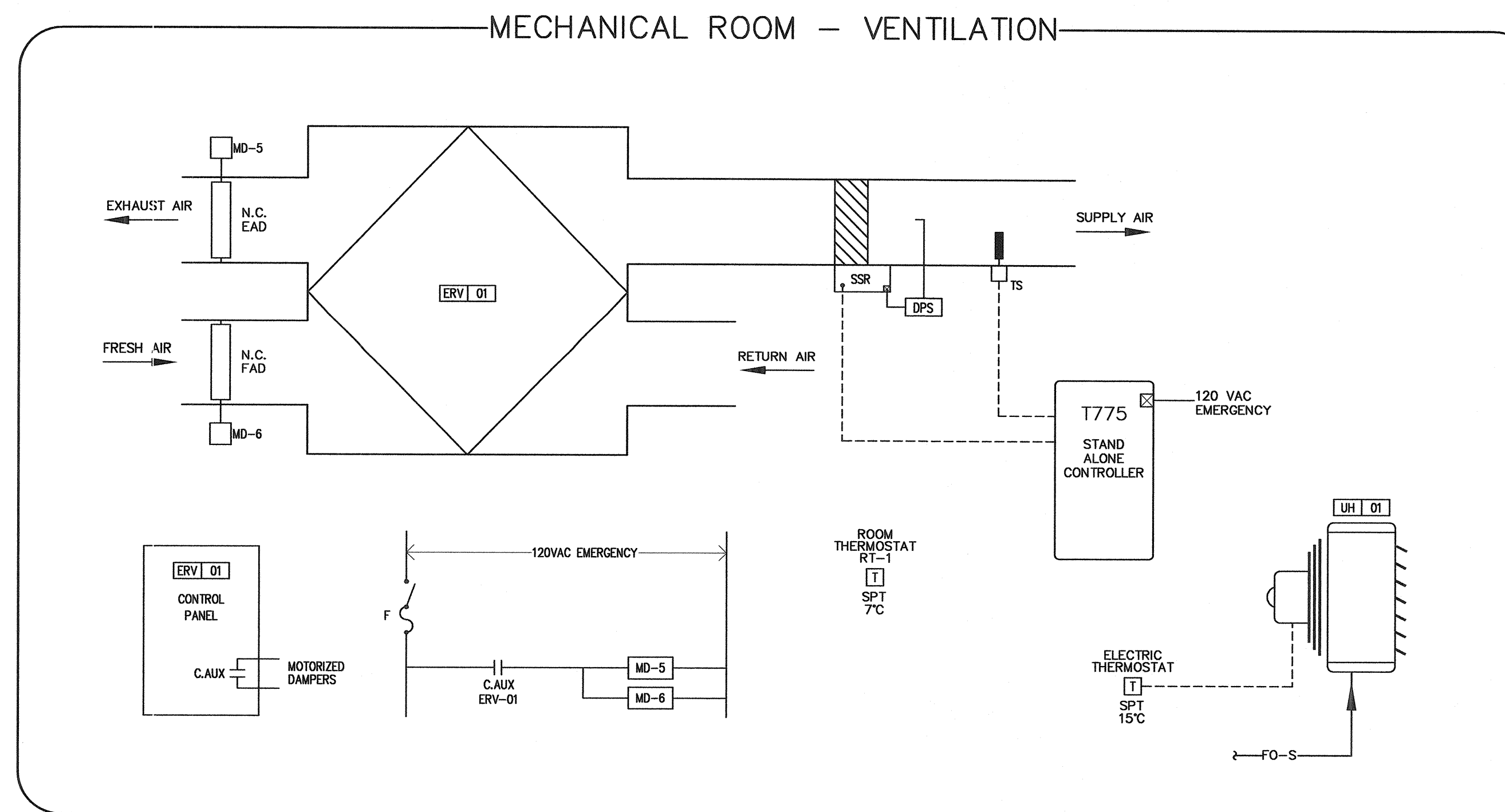
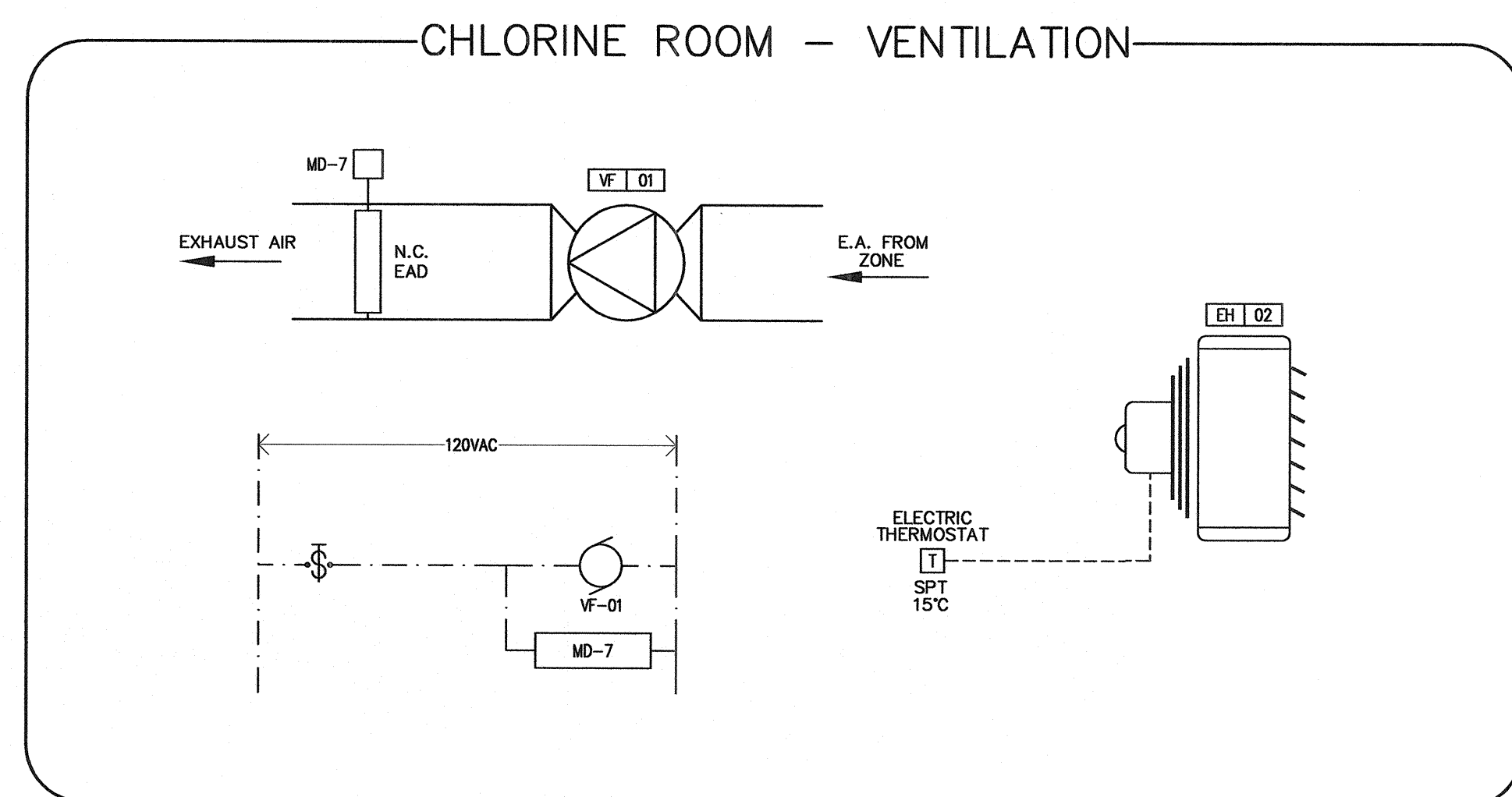
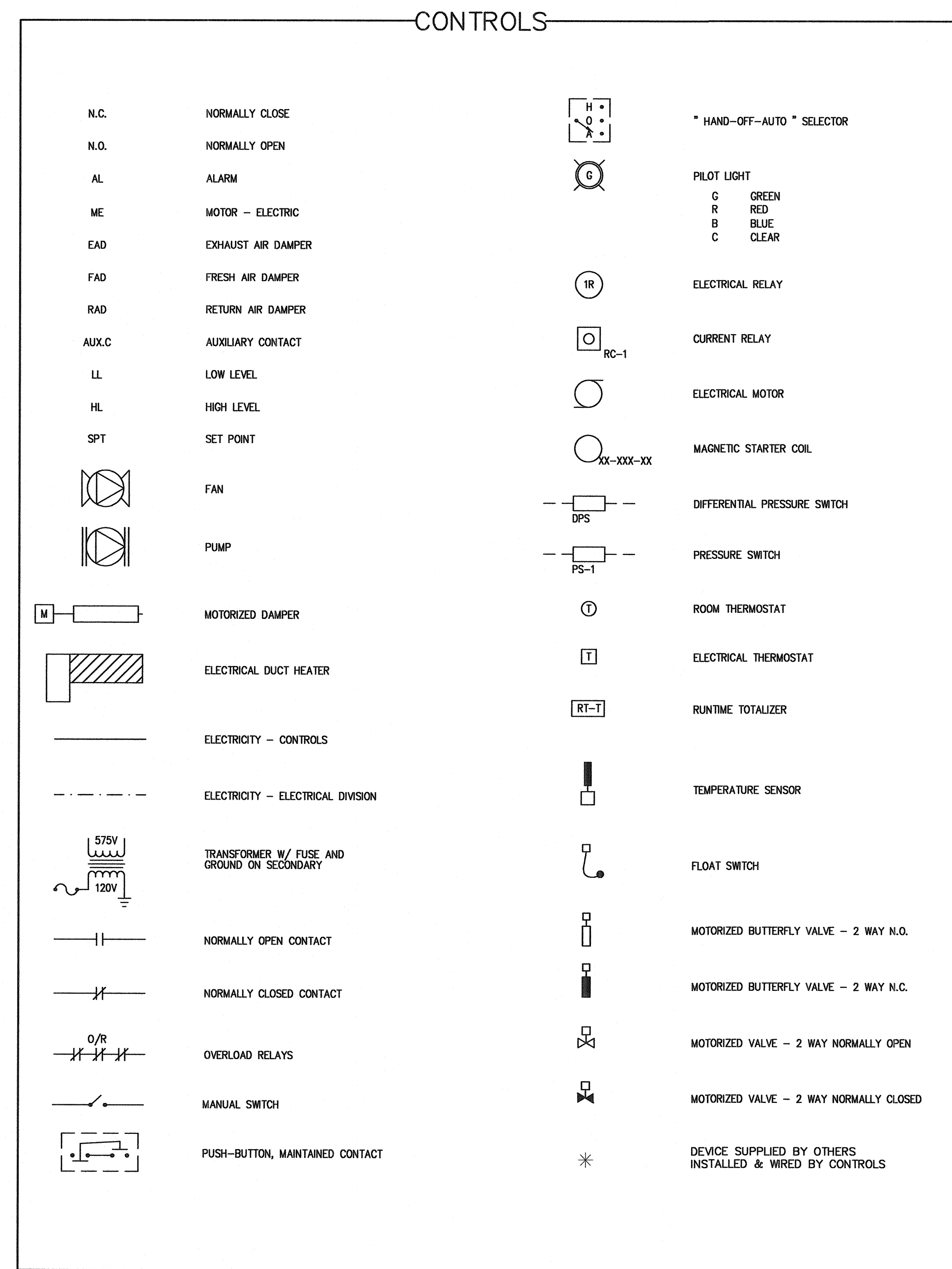
TO DPS-01 PUMPS CONTROL PANEL

DAY TANK CONTROLS

- DL HIGH LEVEL SENSOR
- DL LOW LEVEL SENSOR
- DL LEAK DETECTION

TO DPS-01 PUMPS CONTROL PANEL





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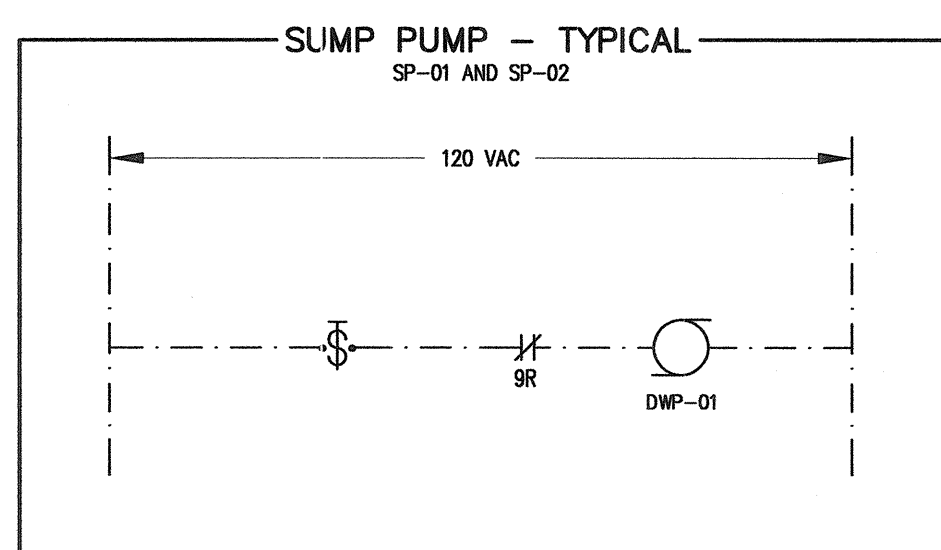
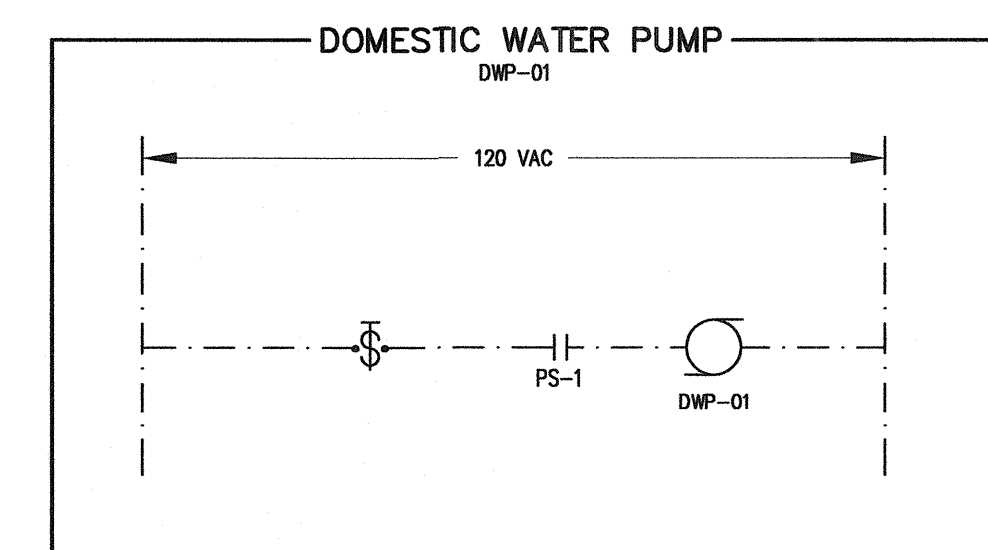
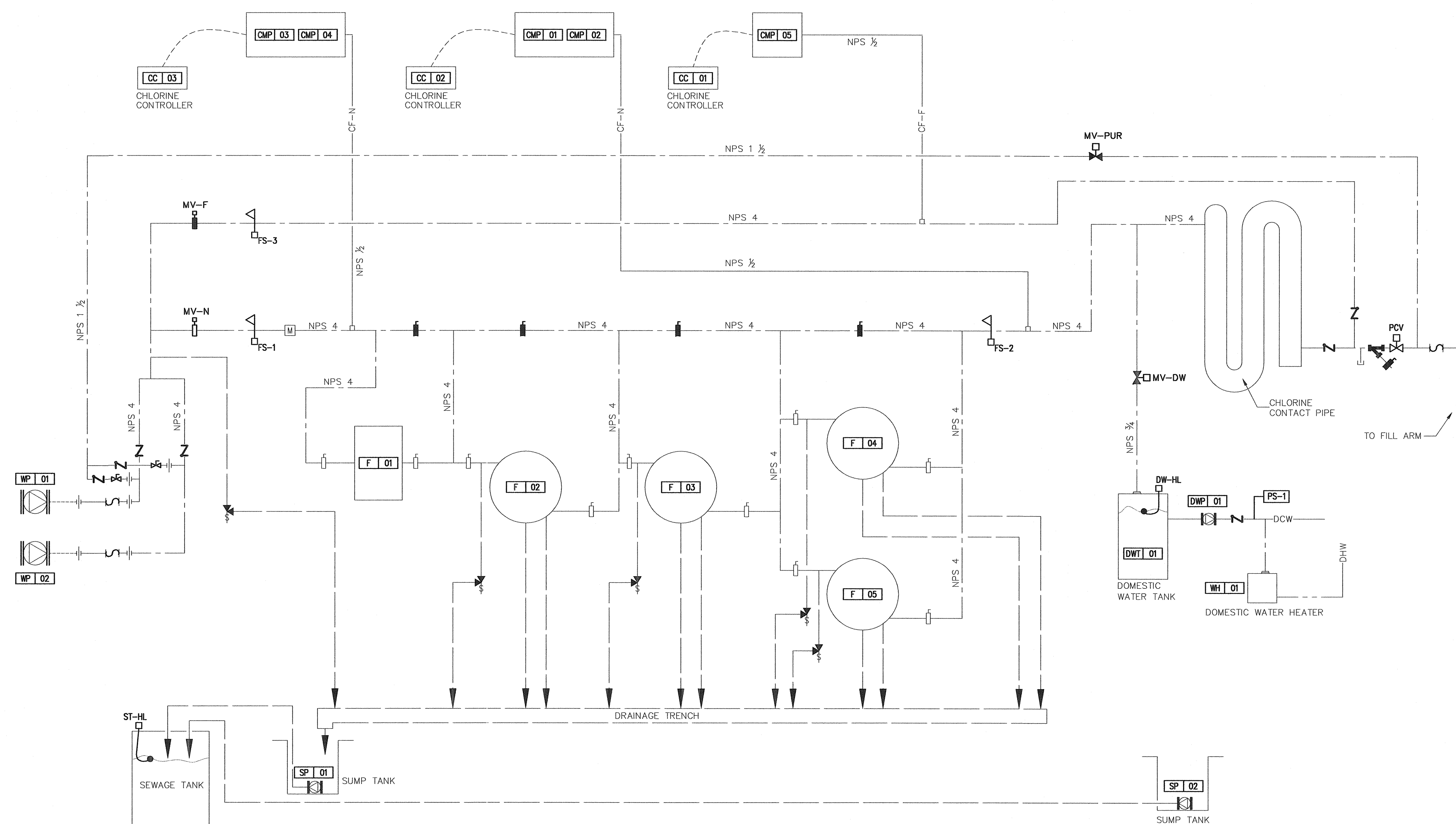
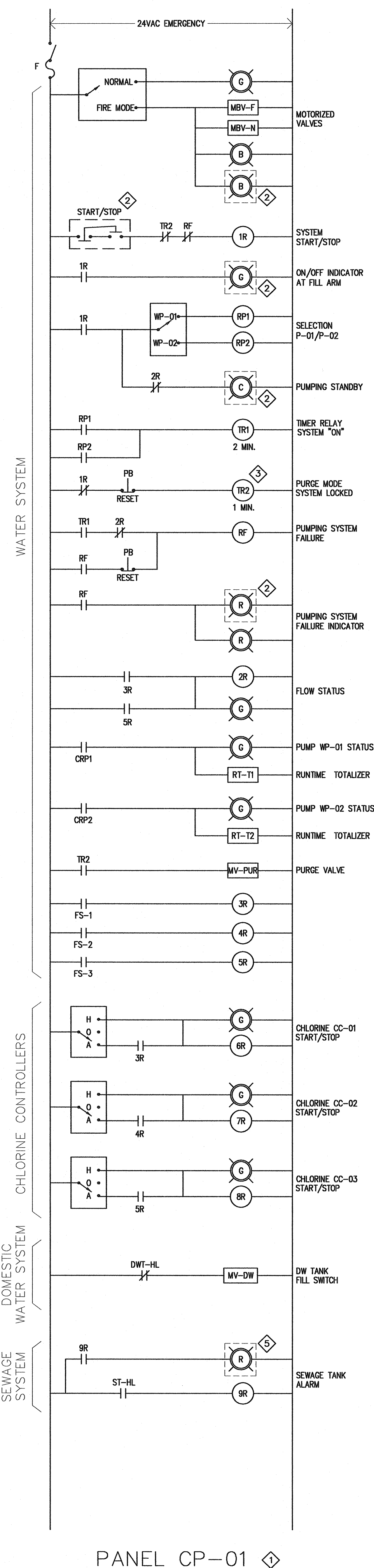
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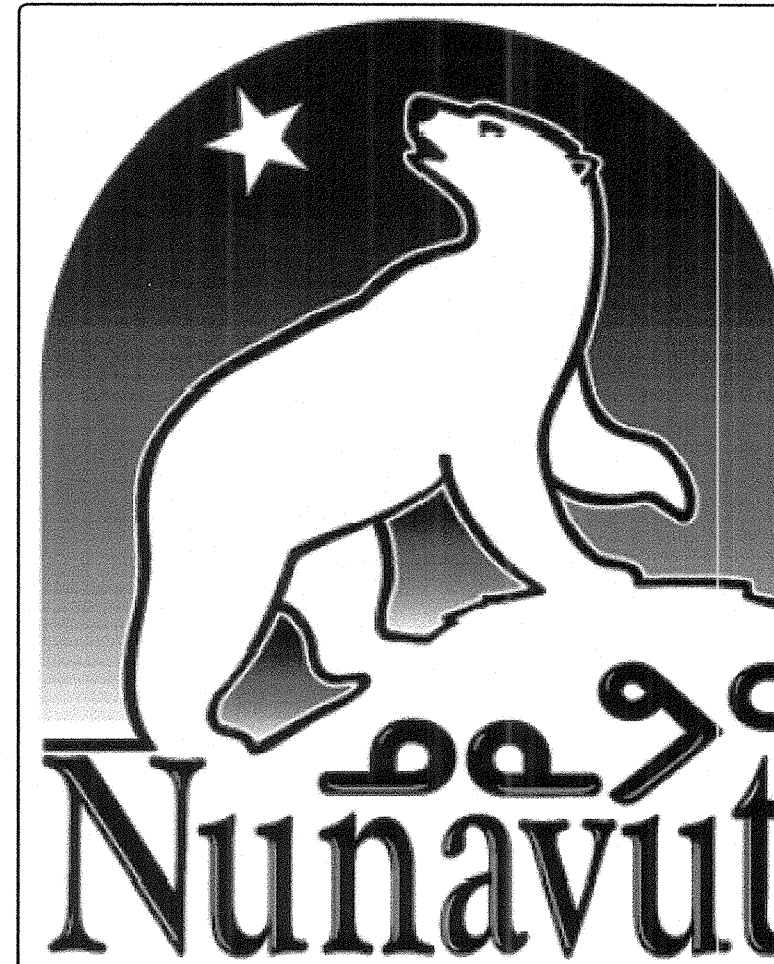
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GOVERNMENT OF NUNAVUT
DEPARTMENT OF COMMUNITY
AND GOVERNMENT SERVICES

PROJECT REPULSE BAY, NUNAVUT NEW PUMPING STATION	
TITLE MECHANICAL CONTROLS SCHEMATICS	
design by L.P.	project no. 8012-099
drawn by L.P.	drawing no. M600
checked by P.S.O.	
date DECEMBER 2013	
site N.T.S.	




- | NOTES: | |
|--------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ① | NEW CONTROL PANEL CP-01 MOUNT ALL SELECTOR SWITCHES, PUSH-BUTTONS AND PILOT-LIGHTS ON THE PANEL FRONT DOOR. REFER TO SPECS FOR DETAILS. |
| ② | CONTROL DEVICE (PUSH-BUTTON, PILOT LIGHT) TO BE MOUNTED ON NEW FILL ARM OPERATOR STATION RS-01. REFER TO SPECS FOR DETAILS. |
| ③ | PURGE MODE TO LOCK PUMPING SYSTEM IN SHUTDOWN AFTER FILL. ADJUST TIME DELAY TO ALLOW WATER TO FLUSH OUT OF THE PUMP DISCHARGE PIPING. REFER TO SEQUENCE OF OPERATION. |
| ④ | CHLORINE CONTROLLER BY DIVISION 23. PROVIDE 24V POWER SUPPLY AND START/STOP CONTACT TO CONTROLLER. |
| ⑤ | EXTERIOR LIGHT (RED) FOR SEWAGE TANK HIGH-LEVEL ALARM TO BE MOUNTED OUTSIDE ON THE EXTERIOR WALL OF THE PUMP HOUSE. REFER TO SPECIFICATIONS FOR DETAILS. |


CONTROL VALVE SCHEDULE										
ID	DESCRIPTION	FLOW RATE (gpm)	CV	VALVE SIZE (in)	PRESS. DROP (psi)	VALVE CHARACTERISTICS				REMARKS
						TYPE	2 WAY	3 WAY	N.O.	
MV-N	NORMAL MODE	-	-	4	-	BUTTERFLY	●		●	
MV-F	FIRE MODE - BYPASS	-	-	4	-	BUTTERFLY	●		●	
MV-PUR	SYSTEM PURGE VALVE	-	-	1½	-	BALL, FULL-PORT	●		●	
MV-DW	DW TANK FILL	-	-	3/4	-	BALL, FULL-PORT	●		●	



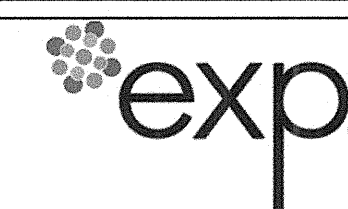
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PROJECT
REPULSE BAY, NUNAVUT
NEW PUMPING STATION

TITLE	MECHANICAL CONTROLS SCHEMATICS
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design by	L.P.	project no. 8012-099 drawing no. M601
drawn by	L.P.	
checked by	P.S.O.	
date	DECEMBER 2013	
	N.T.S.	