

MOTOR SCHEDULE								
No.	HP	DESCRIPTION	VOLTS	φ	STARTER TYPE	STARTER LOCATION	CONTROL	FEEDER
SBV-1	F.R.	VALVE SBV-1 ACTUATOR	600	3	-	-	AS SHOWN	3 No.12
SBV-2	F.R.	VALVE SBV-2 ACTUATOR	600	3	-	-	AS SHOWN	3 No.12
CV-1	F.R.	CONTROL VALVE CV-1 ACTUATOR	24	1	-	-	AS SHOWN	2 No.12
CV-2	F.R.	CONTROL VALVE CV-2 ACTUATOR	24	1	-	-	AS SHOWN	2 No.12
HRV-1a	1.5	HRV-1 SUPPLY FAN	600	3	FVNR	HRV-1 PANEL	AS SHOWN	3 No.12
HRV-1b	1	HRV-1 RETURN FAN	600	3	FVNR	HRV-1 PANEL	AS SHOWN	3 No.12
P-1a	0.75	BOILER PUMP	600	3	FVNR	MOTOR CTR'L PANEL	AS SHOWN	3 No.12
P-1b	0.75	BOILER PUMP	600	3	FVNR	MOTOR CTR'L PANEL	AS SHOWN	3 No.12
P-2	0.75	PAD LOOP PUMP	600	3	FVNR	MOTOR CTR'L PANEL	AS SHOWN	3 No.12
SMP-1	0.5	SUMP PUMP	120	1	-	-	AS SHOWN	2 No.12
UH-1	0.25	HYDRONIC UNIT HEATER UH-1	120	1	-	-	AS SHOWN	2 No.12
DWH-1	3kW	ELECTRIC WATER HEATER	208	3	-	-	INTEGRAL T-STAT	3 No.12
EF-1	0.5	EXHAUST FAN EF-1	208	3	-	-	AS SHOWN	3 No.12
EF-2	1.5	EXHAUST FAN EF-2	208	3	-	-	AS SHOWN	3 No.12

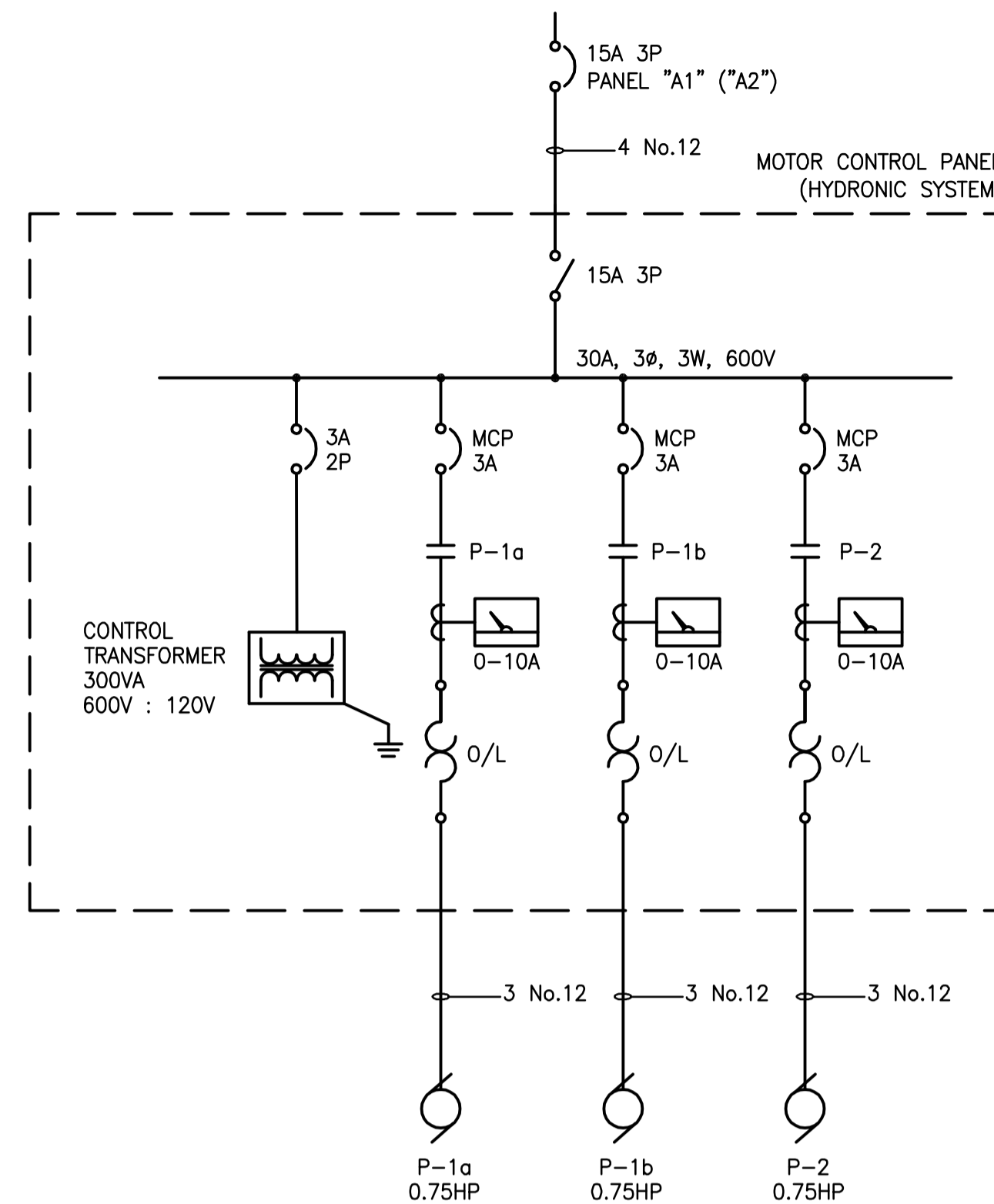
NEWPCC HAULED WASTEWATER BUILDING MOTOR SCHEDULE

MOTOR SCHEDULE								
No.	HP	DESCRIPTION	VOLTS	φ	STARTER TYPE	STARTER LOCATION	CONTROL	FEEDER
LP-1	15	LEACHATE PUMP LP-1	600	3	SOFT STARTER	DEW. BLDG. MCC	AS SHOWN	3 No.8
LP-2	15	LEACHATE PUMP LP-2	600	3	SOFT STARTER	DEW. BLDG. MCC	AS SHOWN	3 No.8
LBV-1	F.R.	VALVE LBV-1 ACTUATOR	600	3	-	-	AS SHOWN	3 No.12
LBV-2	F.R.	VALVE LBV-2 ACTUATOR	600	3	-	-	AS SHOWN	3 No.12
LBV-3	F.R.	VALVE LBV-3 ACTUATOR	600	3	-	-	AS SHOWN	3 No.12
LBV-4	F.R.	VALVE LBV-4 ACTUATOR	600	3	-	-	AS SHOWN	3 No.12
LBV-5	F.R.	VALVE LBV-5 ACTUATOR	600	3	-	-	AS SHOWN	3 No.12
LBV-6	F.R.	VALVE LBV-6 ACTUATOR	600	3	-	-	AS SHOWN	3 No.12
LBV-7	F.R.	VALVE LBV-7 ACTUATOR	600	3	-	-	AS SHOWN	3 No.12
CV-1	F.R.	CONTROL VALVE CV-1 ACTUATOR	24	1	-	-	AS SHOWN	2 No.12
CV-2	F.R.	CONTROL VALVE CV-2 ACTUATOR	24	1	-	-	AS SHOWN	2 No.12
HRV-1a	1.5	HRV-1 SUPPLY FAN	600	3	FVNR	HRV-1 PANEL	AS SHOWN	3 No.12
HRV-1b	1	HRV-1 RETURN FAN	600	3	FVNR	HRV-1 PANEL	AS SHOWN	3 No.12
P-1a	0.75	BOILER PUMP	600	3	FVNR	MOTOR CTR'L PANEL	AS SHOWN	3 No.12
P-1b	0.75	BOILER PUMP	600	3	FVNR	MOTOR CTR'L PANEL	AS SHOWN	3 No.12
P-2	0.75	PAD LOOP PUMP	600	3	FVNR	MOTOR CTR'L PANEL	AS SHOWN	3 No.12
SMP-1	0.5	SUMP PUMP	120	1	-	-	AS SHOWN	2 No.12
UH-1	0.25	HYDRONIC UNIT HEATER UH-1	120	1	-	-	AS SHOWN	2 No.12
DWH-1	3kW	ELECTRIC WATER HEATER	208	3	-	-	INTEGRAL T-STAT	3 No.12
EF-1	0.5	EXHAUST FAN EF-1	208	3	-	-	AS SHOWN	3 No.12

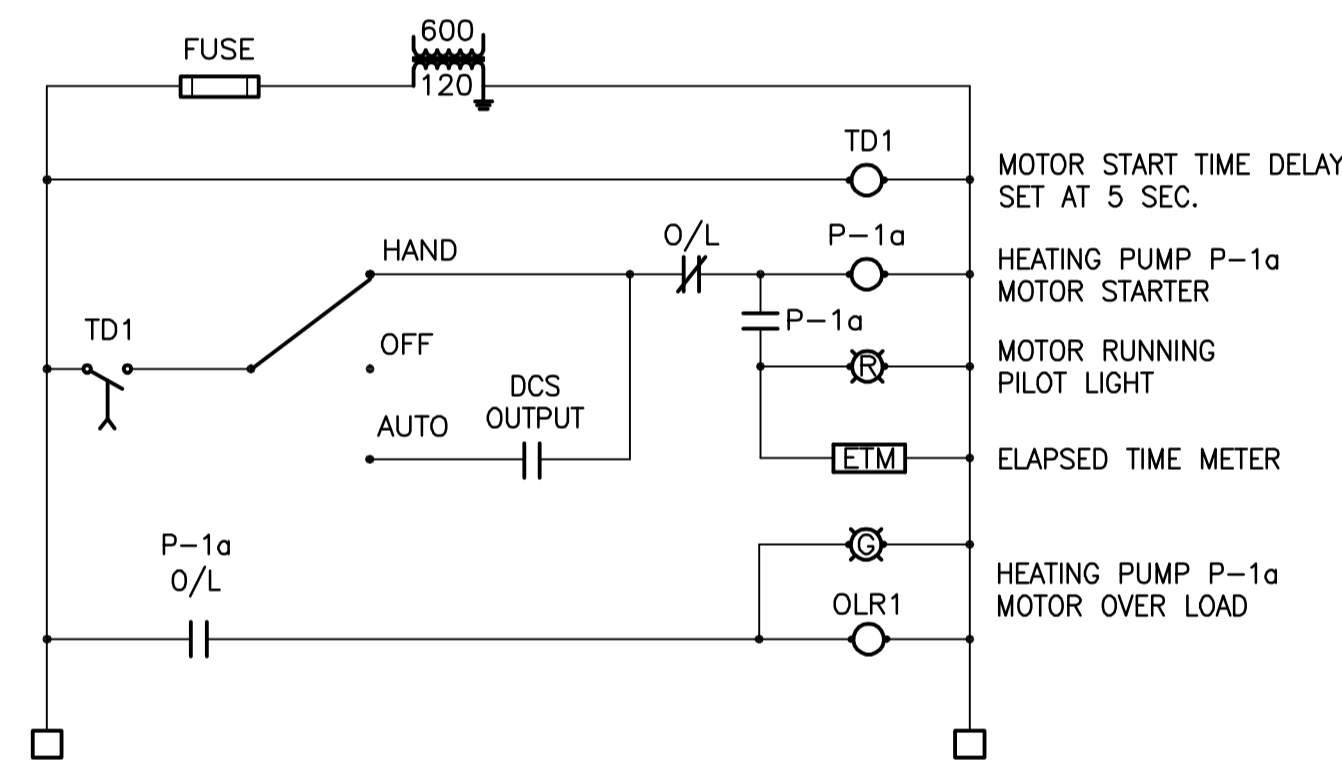
NEWPCC LEACHATE BUILDING MOTOR SCHEDULE

MOTOR SCHEDULE								
No.	HP	DESCRIPTION	VOLTS	φ	STARTER TYPE	STARTER LOCATION	CONTROL	FEEDER
LP-3	7.5	LEACHATE PUMP LP-3	600	3	VFD	DIG. GAL. MCC	AS SHOWN	3 No.12
LP-4	7.5	LEACHATE PUMP LP-4	600	3	VFD	DIG. GAL. MCC	AS SHOWN	3 No.12
LP-5	7.5	LEACHATE PUMP LP-5	600	3	VFD	DIG. GAL. MCC	AS SHOWN	2 No.12

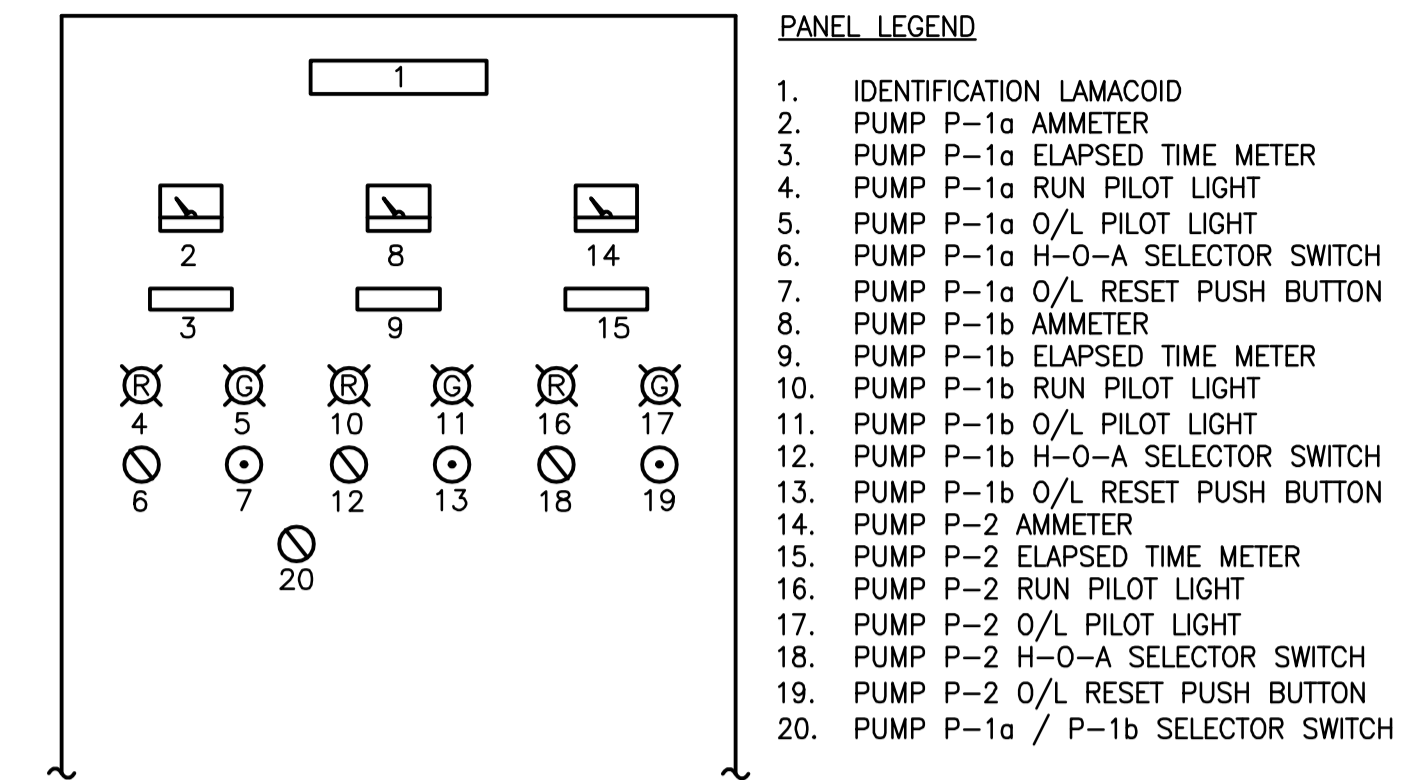
NEWPCC DIGESTER GALLERY MOTOR SCHEDULE



HYDRONIC SYSTEM SINGLE LINE DIAGRAM



HEATING PUMP P-1a MOTOR WIRING DIAGRAM (TYP. OF 2)



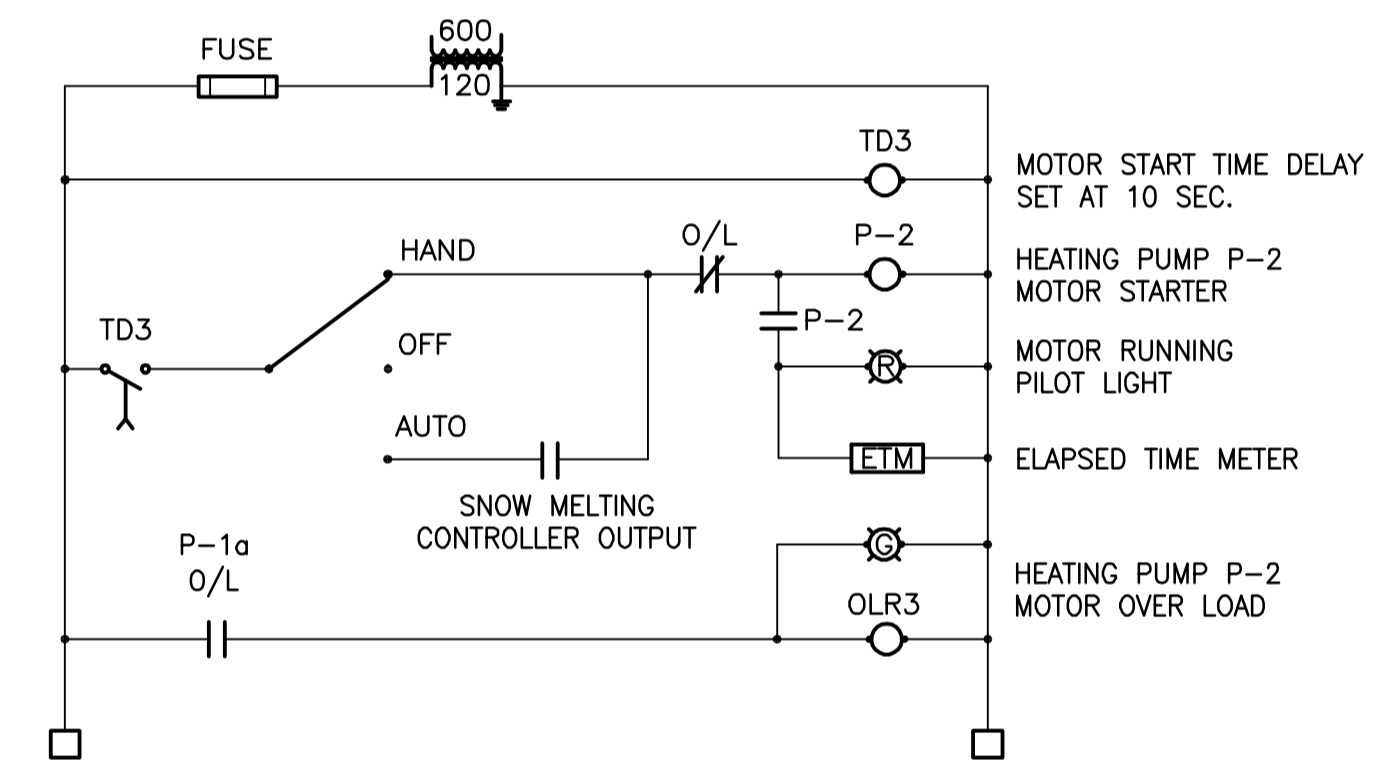
MOTOR CONTROL PANEL TO CONTAIN:

- 1) MOTOR STARTERS FOR PUMPS P-1a, P-1b AND P-2.
- 2) TRANSFORMERS 120V/24V FOR BELIMO ACTUATORS FOR CV-1, CV-1 AND CV-2.

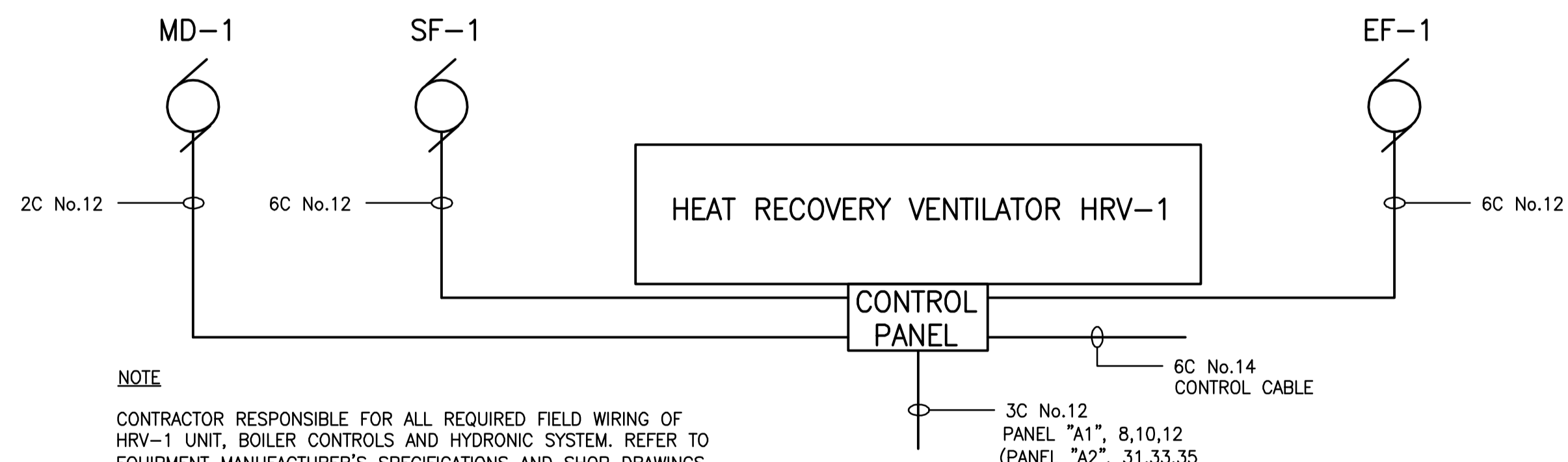
NOTES:

- 1) ON-OFF BELIMO ACTUATORS CV-1 CONTROLLED BY UH-1 THERMOSTATS.
- 2) MODULATING BELIMO ACTUATOR CV-2 CONTROLLED BY DCS.

MOTOR CONTROL PANEL (HYDRONIC SYSTEM) PROPOSED LAYOUT



HEATING PUMP P-2 MOTOR WIRING DIAGRAM



NOTE

CONTRACTOR RESPONSIBLE FOR ALL REQUIRED FIELD WIRING OF HRV-1 UNIT, BOILER CONTROLS AND HYDRONIC SYSTEM. REFER TO EQUIPMENT MANUFACTURER'S SPECIFICATIONS AND SHOP DRAWINGS FOR SPECIFIC FIELD WIRING REQUIREMENTS.

HEAT RECOVERY VENTILATOR HRV-1 DETAIL



B.M. ELEV.	NO.	REVISIONS	DATE	BY

Stantec Consulting Ltd.		ENGINEER'S SEAL	
905 Waverley Street, Winnipeg, Manitoba Tel 204-489-5900 Fax 204-453-9012		ORIGINALLY SIGNED BY: SLOBODAN TREBIC FEB 16, 2010	
DESIGNED BY: S.T.	CHECKED BY: D.D.	TENDER NO. 822-2009	
DRAWN BY: S.T.	APPROVED BY: -	CITY DRAWING NUMBER I-OIOIA-E008-001	
HOR. SCALE: -	RELEASED FOR CONSTRUCTION: DATE	SHEET OF I I	
VERTICAL: -	DATE 10.02.10		

THE CITY OF WINNIPEG WATER AND WASTE DEPARTMENT	
NORTH END WATER POLLUTION CONTROL CENTRE HAULED WASTEWATER RECEIVING FACILITIES HAULED WASTEWATER AND LEACHATE RECEIVING BUILDINGS	
MOTOR SCHEDULES	

THE CITY OF WINNIPEG WATER AND WASTE DEPARTMENT	
NORTH END WATER POLLUTION CONTROL CENTRE HAULED WASTEWATER RECEIVING FACILITIES HAULED WASTEWATER AND LEACHATE RECEIVING BUILDINGS	
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