

NOTES:

1. ALL CONTROL WIRING TO BE #14 + 1 #14 GND IN 16mm C UNLESS NOTED OTHERWISE.
2. SIGNAL WIRING FOR ANALOGS TO BE #18AWG SHIELDED TWISTED PAIR IN 16mm C SHIELD TO BE CONNECTED AT CONTROL PANEL END ONLY.
3. SPLICING OF WIRES IS NOT PERMITTED. 3. GROUPING OF CONDUCTORS IS PERMITTED AS LONG AS THEY ARE SIMILAR VOLTAGES. CONDUIT SIZES TO BE ADJUSTED TO MEET CEC LATEST EDITION.
4. ALL WIRING IN CLASS 1 DIVISION 1 AREA TO BE AS PER CEC LATEST EDITION. INSTALL EYS FITTINGS AND SEALING COMPOUND WHERE REQUIRED. INSTALL SEALING COMPOUND AFTER FINAL COMMISSIONING.

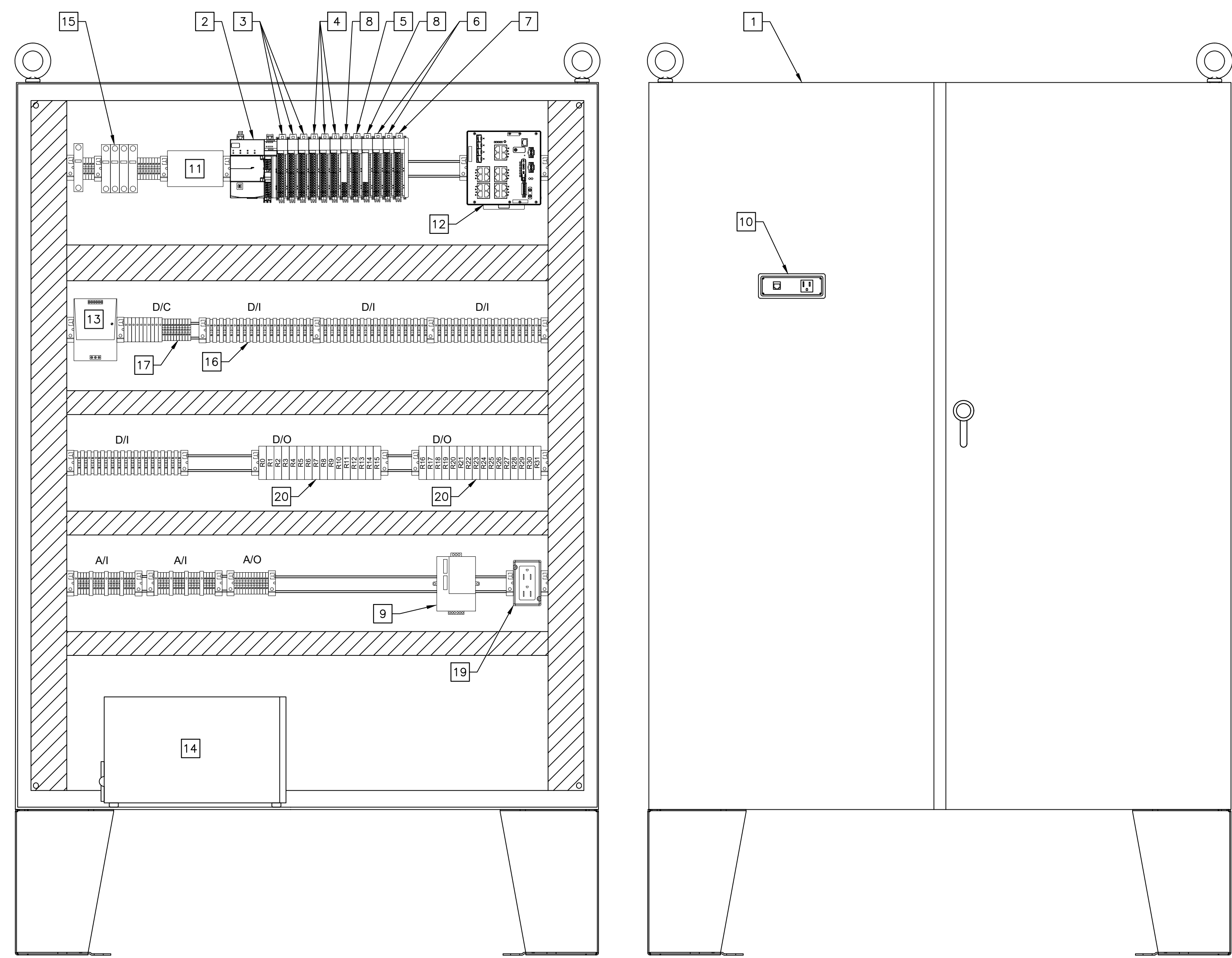


3	ISSUED FOR TENDER	06/17/2022
2	ISSUED FOR RS4 99% SUBMISSION	10/30/2020
1	ISSUED FOR RS4 66% SUBMISSION	02-28/2020
0	ISSUED FOR RS3 SUBMISSION	08-17/2018
revisions		date

SEWAGE TREATMENT  
UPGRADES  
SPRINGHILL INSTITUTION  
SPRINGHILL, NS

ELECTRICAL  
STATION CONTROL PANEL  
LAYOUT AND I/O WIRING

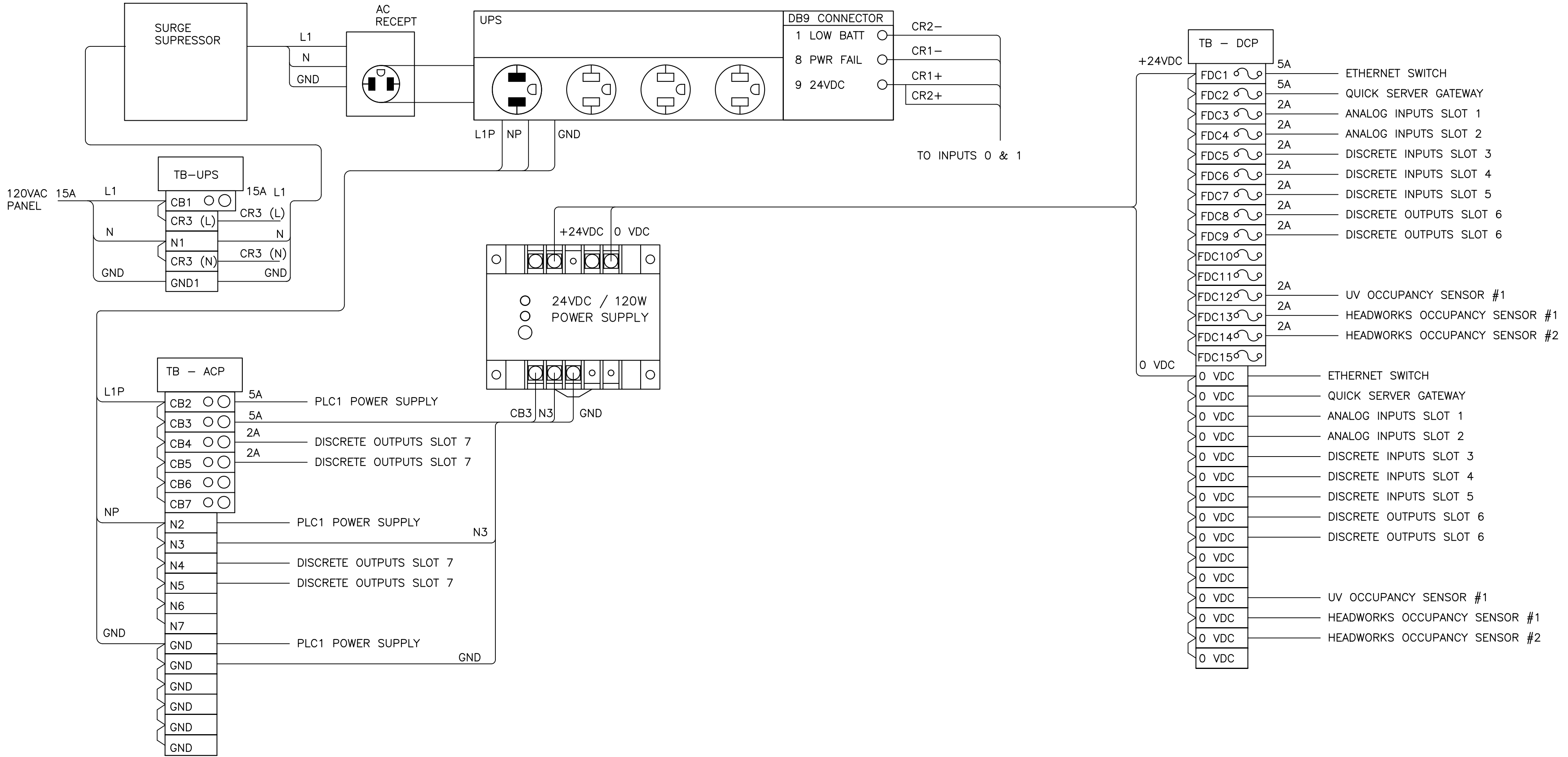
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	E09	



STATION CONTROL PANEL – FRONT AND INSIDE LAYOUT  
NTS

EQUIPMENT LIST				
#	DESCRIPTION	MANUFACTURER	QTY	PART NUMBER / COMMENTS
1	1530Hx1220Wx305D NEMA 12 STEEL ENCLOSURE C/W FEET STEEL BACKPANEL, 3 POINT LATCH HANDLE, GASKETED OVERLAPPING DOORS		1	
2	COMPACTLOGIX PLC 2MB MEMORY, DUAL ETHERNET PORTS	ALLEN-BRADLEY	1	5069-L320ER (DUAL IP MODE)
3	8 CHANNEL ANALOG VOLTAGE/CURRENT INPUT MODULE, 16 BIT RESOLUTION	ALLEN-BRADLEY	2	5069-IF8
4	16 CHANNEL, 24 VDC SINKING INPUT MODULE	ALLEN-BRADLEY	3	175069-IB16
5	16 CHANNEL, AC INPUT MODULE	ALLEN-BRADLEY	1	5069-IA16
6	16 CHANNEL, 24 VDC SOURCE OUTPUT MODULE	ALLEN-BRADLEY	2	5069-OB16
7	4 CHANNEL VOLTAGE/CURRENT ANALOG OUTPUT MODULE	ALLEN-BRADLEY	1	5069-OF4
8	FIELD POTENTIAL DISTRIBUTOR MODULE	ALLEN-BRADLEY	2	5069-FPD
9	ETHERNET/IP TO BACNET/IP GATEWAY	PROSOFT TECHNOLOGY	1	PS-QS-1010-0780
10	PANEL MOUNTED PROGRAMMING PORT C/W ETHERNET PORT AND 120VAC RECEPTACLE		1	
11	DIN RAIL MOUNTED SURGE AND LINE FILTER SUPPRESSOR, 120VAC 10A RATED 10KHZ TO 100 MHZ FILTER BANDWIDTH		1	AGPH12005
12	8 PORT UNMANAGED ETHERNET SWITCH, DIN RAIL MOUNTED 24V SUPPLY	STRIDE, N-TRON, WEIDMULLER	1	
13	SWITCH MODE POWER SUPPLY 120/240V SUPPLY 24VDC OUTPUT, 240W 10A POWER SUPPLY	OMRON, SIEMENS, WEIDMULLER	1	
14	UPS, 1000VA / 900W, 120V, 5-15p INPUT (6)5-15R OUTPUT, ONLINE DOUBLE-CONVRSON, AUTOMATIC BYPASS, TWO RELAY OUTPUTS		3	1 FOR CONTROL PANEL, 1 FOR DESKTOP COMPUTER AND ONE FOR ETHERNET SWITCH
15	DIN RAIL MOUNTED CIRCUIT BREAKER, 1 POLE, 120V, SIZE AS INDICATED		AS REQ'D	
16	DIN RAIL MOUNTED FUSED TERMINAL BLOCKS C/W BLOWN FUSE INDICATOR		AS REQ'D	
17	DIN RAIL MOUNTED FEED THRU TERMINAL BLOCKS COLOR AS INDICATED IN SPEC.		AS REQ'D	
18	DIN RAIL MOUNTED THREE LEVEL , THREE CIRCUIT TERMINAL BLOCK WITH GROUND		AS REQ'D	
19	15A DUPLEX RECEPTACLE, DIN RAIL MOUNTED		1	
20	RELAY TERMINAL BLOCKS 24 VDC COIL, SPST NO/NC NONTACT		AS REQ'D	PLC-RSC-24DC/21-2966171
21	ETHERNET/IP TO LONWORKS GATEWAY	PROSOFT TECHNOLOGIES	1	PS-QS-1011-0783

EQUIPMENT LIST  
NTS



STATION CONTROL PANEL – GENERAL WIRING  
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