



- NOTES:**
- LAPTOP SHELF TO BE MOUNTED ON OUTER SIDE OF DOOR.
 - LITERATURE POCKET TO BE MOUNTED ON INNER SIDE OF DOOR.
 - AVOID RUNNING CONDUIT THROUGH TOP OF ENCLOSURE.
 - NO CONDUIT ENTRIES DIRECTLY BELOW OR BESIDE THE UPS.
 - BILL OF MATERIALS AND QUANTITIES THEREIN ARE TO BE MODIFIED AS REQUIRED TO SUIT THE DESIGN.
 - PANEL SUPPLIER TO INSTALL NETWORK JACK, DIV 17 TO SUPPLY AND INSTALL CABLING.
 - SEE NETWORK DWG YXXX FOR LABELING OF THE WORK AREA OUTLETS.

- THESE DRAWINGS ARE TEMPLATE DRAWINGS
- REMOVE THIS NOTE AS PART OF THE DESIGN PROCESS.
 - MODIFY THIS DRAWING AS DIRECTED IN THE SCADA STANDARDS.
 - ADD ADDITIONAL DETAILS AS REQUIRED TO MEET THE PROJECT SPECIAL REQUIREMENTS.
 - WHEN THE CONSULTANT DEVIATES FROM THIS TEMPLATE THEY ARE REQUIRED TO NOTIFY HALTON REGION THROUGH THE USE OF THE STANDARDS DEVIATION MEMO.
 - FUSED TERMINAL BLOCKS AND CIRCUIT BREAKERS TO BE SIZED APPROPRIATELY.
 - SHOW ADDITIONAL RACKS (UP TO A MAXIMUM OF 2) ONLY IF NECESSARY BASED ON DESIGN REQUIREMENTS.
 - THE CONSULTANT IS TO SPECIFY SIGNAL ISOLATORS WHERE REQUIRED. FOLLOW MANUFACTURERS' SPECIFICATIONS FOR GROUNDING OF SHIELDS.
 - PANEL SIZING TO COMPLY WITH SECTION 3 OF THE SCADA STANDARDS
 - CONSULTANT TO SIZE UPS TO ALLOW FOR 30 MINUTES OF UPTIME.
 - IF CONTRACTORS ARE REQUESTING TO SUBSTITUTE PARTS MAKE SURE THE PARTS CONFORM TO THE STANDARDS LAYED OUT IN HALTON SCADA STANDARDS SECTION 3 CONTROL PANEL DESIGN.

NO	Date	By	REVISIONS	MAN/CAD
Design	---	Ch'kd	---	Date
Drawn	---	Ch'kd	---	
Scale	N.T.S.			References

Field Notes
Stamp

Regional
ACCEPTED FOR CONSTRUCTION OF REGIONAL INFRASTRUCTURE
REVIEWED FOR COMPLIANCE WITH REGIONAL STANDARDS ONLY.
Director, Water & Wastewater Treatment
Manager, Plant Capital & Engineering



TITLE REGIONAL MUNICIPALITY OF HALTON CONSULTANT PROJECT TITLE	
PLANT FREE STANDING CONTROL PANEL WITH REMOTE 2 RACK	
Consultant File NR	Regional Drawing NR
CONTRACT NR	Drawing NR 1302
	SHEET XX OF XX

				BILL OF MATERIALS	
ITEM	PART NUMBER	SUPPLIER	LABEL	DESCRIPTION	QUANTITY
1	1756-PA75	ALLEN BRADLEY		CONTROLLOGIX POWER SUPPLY	2
2	1756-L82E	ALLEN BRADLEY		CONTROLLOGIX CPU	1
3	1756-1A16I	ALLEN BRADLEY		CONTROLLOGIX 16-POINT AC DIGITAL INPUT CARD	7
4	1756-OA16I	ALLEN BRADLEY		CONTROLLOGIX 16-POINT AC DIGITAL OUTPUT CARD	6
5	1756-IF8IH	ALLEN BRADLEY		CONTROLLOGIX HART 8-POINT ANALOG INPUT CARD	9
6	1756-OF8IH	ALLEN BRADLEY		CONTROLLOGIX HART 8-POINT ANALOG OUTPUT CARD	5
7	1756-N2	ALLEN BRADLEY		CONTROLLOGIX SLOT FILLER	4
8	1756-EN2TR	ALLEN BRADLEY		CONTROLLOGIX ETHERNET CARD	2
9	1756-A17	ALLEN BRADLEY		CONTROLLOGIX 17-SLOT CHASSIS	2
10	9926251015	WEIDMULLER		SURGE PROTECTOR CIRCUIT BREAKER 1P 15A	1
11	9102003500	WEIDMULLER		CIRCUIT BREAKER 1P 15A	3
12	9101803500	WEIDMULLER		CIRCUIT BREAKER 1P 5A	4
13	9101703500	WEIDMULLER		CIRCUIT BREAKER 1P 3A	3
14	9101503500	WEIDMULLER		CIRCUIT BREAKER 1P 2A	11
15	9101203500	WEIDMULLER		CIRCUIT BREAKER 1P 1A	13
16	1162960000	WEIDMULLER		TERMINAL BLOCK, FUSED, 120Vac W/ TRIP INDICATION	112
17	1142990000	WEIDMULLER		END PLATE FOR ABOVE	112
18	1020100000	WEIDMULLER		TERMINAL BLOCK, FEED THROUGH, FOR DIO, NEUTRAL AND 0VDC TERMINALS	146
19	117960000	WEIDMULLER		END PLATE FOR ABOVE	AS REQ.
20	0687460000	WEIDMULLER		TERMINAL BLOCK, 2-TIER, KNIFE DISCONNECT	120
21	0687560000	WEIDMULLER		END PLATE FOR ABOVE	120
22	1020090000	WEIDMULLER		TERMINAL BLOCK, FEED THROUGH, GREEN	120
23	1010100000	WEIDMULLER		TERMINAL BLOCK, GROUND	11
24	1061200000	WEIDMULLER		END BRACKET FOR W SERIES TERMINALS	11
25	1123040000	WEIDMULLER		INTERPOSING RELAY, 120VAC COIL, 1 C/O CONTACT	96
26	700-HF32A14	ALLEN BRADLEY		CONTROL RELAY, 120VAC COIL, 2 C/O CONTACTS	4
27	700-HN116	ALLEN BRADLEY		RELAY BASE FOR ABOVE	3
28	2859563	PHOENIX		LINE SURGE SUPPRESSOR	1
29	9SX1500	EATON		9SX UPS 1500VA	1
30	RELAY-MS	EATON		RELAY CARD FOR ABOVE	1
31	2938581	PHOENIX		24VDC POWER SUPPLY	4
32	2938963	PHOENIX		24VDC POWER SUPPLY REDUNDANCY MODULE FOR ABOVE	2
33	FLKDS	HAMMOND		PANEL DOOR LIGHT SWITCH	2
34	FLK10LED	HAMMOND		PANEL LIGHT - LED 26"	2
35	918688	HUBBELL		DUPLEX RECEPTACLE	1
36	P-R62-F3R0	GRACE		PROGRAMMER PORT	1
37	337930	HUBBELL		SINGLE RECEPTACLE, UPS FEED, IVORY	1
38	HMET20185	HAMMOND		MODULAR DOUBLE DOOR ENCLOSURE 78.74" X 70.87" X 19.69"	1
39	HSP205	HAMMOND		SIDE PANEL FITS 78.74" X 70.87" ENCLOSURE	1
40	PKT1212	HAMMOND		DRAWING HOLDER	1
41	SP1801894	HAMMOND		LAPTOP SHELF, 22"	1
42	2865968	PHOENIX		SIGNAL ISOLATOR	5
43	9101903500	WEIDMULLER		CIRCUIT BREAKER 1P 10A	1
44	9101803500	WEIDMULLER		CIRCUIT BREAKER 1P 5A DC	1
45	9101703500	WEIDMULLER		CIRCUIT BREAKER 1P 3A DC	5
46	9101203500	WEIDMULLER		CIRCUIT BREAKER 1P 1A DC	2
47	9104183500	WEIDMULLER		CIRCUIT BREAKER 1P 1A DC - INTERPOSING RELAYS	1
48	292460000	WEIDMULLER		GROUP MARKER	28
49	PK15GTA	SQUARE-D		AC GROUND BAR	1
50	NSCH-1M	WEIDMULLER		ISOLATED DC GROUND BAR	1
51		PANDUIT		SLOTTED WIRE WAY, VARIOUS WIDTHS, 4" (100MM) DEEP	AS REQ.
52				MISC. COMPONENTS - DIN RAIL, DIN RAIL RISERS GROUNDING, WIRE LABELS	AS REQ.
53	SSFL14	HUBBELL		4 PORT KEYSTONE WALL MOUNT FACEPLATE STAINLESS STEEL	1
54	C016652-09F004	COMMSCOPE		PATCH CABLES	AS REQ.
55	IHD 1"	RED DOT		SINGLE GANG CAST ALUMINUM DEVICE BOX	1
56	760072207	COMMSCOPE		4-PORT STAINLESS STEEL FACEPLATE FOR OUTLET BOX	1
57	700206691	COMMSCOPE		CAT6 JACK MODULE (YELLOW)	4
58	107296642	COMMSCOPE		RJ45 JACK MODULE SNAP-IN ICON (WHITE)	4
59	2864150	PHOENIX		NON-LOOP POWERED SIGNAL ISOLATOR	6

NOTE:
1. BILL OF MATERIALS AND QUANTITIES THEREIN ARE TO BE MODIFIED AS REQUIRED TO SUIT THE DESIGN.

CONSULTANT TO UPDATE
PROJECT TITLE AND
DRAWING NAME

NOTES:

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1. REMOVE THIS NOTE AT THE END OF THE DESIGN PROCESS.
2. MODIFY THIS DRAWING AS DIRECTED IN THE SCADA STANDARDS.
3. ADD ADDITIONAL DETAILS AS REQUIRED TO MEET THE PROJECT SPECIAL REQUIREMENTS.
4. WHEN THE CONSULTANT DEVIATES FROM THIS TEMPLATE THEY ARE REQUIRED TO NOTIFY HALLAM REGION THROUGH THE USE OF THE STANDARDS DEVIATION MEMO.
5. FIELD TERMINAL BLOCKS AND CIRCUIT BREAKERS TO BE SIZED APPROPRIATELY.
6. SHOW ADDITIONAL ROD RIGGS (UP TO A MAXIMUM OF 2) ONLY IF NECESSARY BASED ON DESIGN REQUIREMENTS.
7. ADDITIONAL ISOLATION SIGNALS WHERE REQUIRED. FOLLOW MANUFACTURERS' SPECIFICATIONS FOR GROUNDING OF SHIELDS.
8. PANEL SIZING TO COMPLY WITH SECTION 3 OF THE SCADA STANDARDS

[illegible]

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TITLE	REGIONAL MUNICIPALITY OF HALTON CONSULTANT PROJECT TITLE
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PLANT FREE STANDING CONTROL PANEL
WITH REMOTE 2 RACK BILL OF MATERIALS

Consultant File No.

Regional Drawing №

CONTRACT NO

Drawing No 1303
SHEET XX OF XX