



BACKUP CONTROL FRONT VIEW

PANEL SIDE VIEW

BACK PANEL VIEW

SPS BACK-UP LEVEL TRANSMITTER PANEL LAYOUT BILL OF MATERIALS				
ITEM	PART NUMBER	SUPPLIER	LABEL	DESCRIPTION
1	1418K16	HAMMOND		NEMA 12 WALLMOUNT ENCLOSURE WITH INNER PANEL 30 x 24 x 16 - STEEL/GRAY
2	KCD2-STC-EX1	PEPPERL AND FUCHS		HART ENABLED SINGLE CHANNEL INTRINSICALLY SAFE
3	700-HN116	ALLEN BRADLEY		DPDT RELAY BASE
4	700-HF32A1	ALLEN BRADLEY		DPDT RELAY
5	700-HN159	ALLEN BRADLEY		4PDT RELAY BASE
6	700-HF34A1	ALLEN BRADLEY		4PDT RELAY
7	1020100000 1050100000	WEIDMULLER	TB-ISR	TERMINAL BLOCK FEED THROUGH WDU4 W-SERIES, END PLATE, SEPERATION PLATE
8	1020100000 1050100000	WEIDMULLER	TB-PWR	TERMINAL BLOCK FEED THROUGH WDU4 W-SERIES, END PLATE, SEPERATION PLATE
9	1020100000 1050100000	WEIDMULLER	TB-DW	TERMINAL BLOCK FEED THROUGH WDU4 W-SERIES, END PLATE, SEPERATION PLATE
10	1020100000 1050100000	WEIDMULLER	TB-DO	TERMINAL BLOCK FEED THROUGH WDU4 W-SERIES, END PLATE, SEPERATION PLATE
11	1050100000	WEIDMULLER	END BARRIER	W-SERIES, END PLATE, SEPERATION PLATE
12	1061200000	WEIDMULLER	END STOP	W-SERIES, END BRACKET
13	0203460000	WEIDMULLER		SCHT, TERMINAL MARKER, 24.5 X 10.5MM, PITCH IN MM (P) 5.00 BEIGE
14	9101803500	WEIDMULLER	CBR303, CBR400	CIRCUIT BREAKER 1P 5A
15	9101803500	WEIDMULLER	CBR303, CBR305	CIRCUIT BREAKER 1P 5A (SPARE)
16	9101203500	WEIDMULLER	CBR301, CBR302	CIRCUIT BREAKER 1P 1A (BACK-UP LEVEL XMTR)
17	9102035000	WEIDMULLER	CBR300	CIRCUIT BREAKER 1P 15A (UPS POWER)
18	9104183500	WEIDMULLER	CBR402	CIRCUIT BREAKER 1P 0.2A (UPS#2 RELAYS)
19	9101203500	WEIDMULLER	CBR401, CBR403	CIRCUIT BREAKER 1P 3A (PROBE ISB)
20	9101203500	WEIDMULLER	CBR404	CIRCUIT BREAKER 1P 3A (SPARE)
21	9911050000	WEIDMULLER	CBR405, CBR406	CIRCUIT BREAKER 1P 0.5A (SPARE)
22	800F-FW	ALLEN BRADLEY		RESET PUSHBUTTON
23	800F-0TH2A	ALLEN BRADLEY		PUSH TO TEST AMBER PILOT LIGHT
24	800F-X01	ALLEN BRADLEY		N.C. CONTACT BLOCK
25	800F-X10	ALLEN BRADLEY		N.O. CONTACT BLOCK
26	800F-35BE100	ALLEN BRADLEY		"PUMPS ON BACK-UP" LEGEND PLATE
27	800F-35BE100	ALLEN BRADLEY		"BACK-UP SYSTEM RESET" LEGEND PLATE
28	7ML5233-3CA00-2A	SIEMENS		BACK-UP LEVEL TRANSMITTER
29	95X1000	POWERWARE		UPS2 (95X1000)
30	1030003055	POWERWARE		UPS 2 INDUSTRIAL RELAY CARD
31	VSC15/10	SPECTER		DISCONNECT SWITCH COVER
32	8396K107	EATON		SINGLE POLE TOGGLE DISCONNECT SWITCH
33	QUINT-PS 100-240AC/24DC	PHOENIX CONTACT		24VDC POWER SUPPLY
34	700-HK32A24	ALLEN BRADLEY		24VDC COIL, 120 VAC CONTACT INTERPOSING RELAY (UPS ALARMS)
35	700-HN222	ALLEN BRADLEY		24VDC DPDT RELAY BASE
36	N/A	PANDUIT		SLOTTED WIRE WAY, 3 (75MM) DEEP
37	IG5261	HUBBELL		SINGLE RECEPTABLE, UPS FEED, IVORY

NOTE:
1. FOR PANEL AND EQUIPMENT LAYOUT, THE INDICATED MANUFACTURER WAS USED FOR SPACE CONSIDERATIONS. OTHER MANUFACTURERS ARE ALSO ACCEPTABLE AS PER THE SPECIFICATIONS.
2. BILL OF MATERIALS AND QUANTITIES THEREIN ARE TO BE MODIFIED AS REQUIRED TO SUIT THE DESIGN.

BILL OF MATERIALS

NOTES:

1. WET WELL FLOATS TO ENTER THROUGH TOP OF PANEL. ALL OTHER ENTRIES THROUGH SIDE OR BOTTOM.
2. INTERNAL INTRINSICALLY SAFE WIRES TO CONFORM TO HALTON REGION WIRING STANDARDS.
3. BACKUP SYSTEM CONTROL PANEL TO BE LABELLED AS "XXXBKYY" NAME AND TAG TO MATCH LOCATION, SIMILAR TO ASSOCIATED PLC PANEL.

- THESE DRAWINGS ARE TEMPLATE DRAWINGS
1. REMOVE THIS NOTE AS PART 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 HALTON REGION THROUGH THE USE OF THE STANDARDS DEVIATION MEMO.
 5. FUSED TERMINAL BLOCKS AND CIRCUIT BREAKERS TO BE SIZED APPROPRIATELY.
 6. SHOW ADDITIONAL RIB RACKS (UP TO A MAXIMUM OF 2) ONLY IF NECESSARY BASED ON DESIGN REQUIREMENTS.
 7. THE CONSULTANT IS TO SPECIFY SIGNAL ISOLATORS WHERE REQUIRED. FOLLOW MANUFACTURERS' SPECIFICATIONS FOR GROUNDING OF SHIELDS.

REVISIONS			
NO	Date	By	MAN/CAD
Design	---	Ch'kd	---
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

SPS BACKUP LEVEL TRANSMITTER PANEL LAYOUT

Consultant File NO Regional Drawing NO

CONTRACT NO Drawing NO E910 SHEET XX OF XX