



RTU PANEL INTERIOR LAYOUT

SCALE: 3/8" = 1"

RTU PANEL BILL OF MATERIALS					
ITEM	QTY	SUB	MFG	CATALOG	DESC
1	A/R		ALLEN BRADLEY	1492-DR5	DIN RAIL ALUMINUM
2	A/R		ALLEN BRADLEY	1492-DR6	DIN RAIL ALUMINUM HIGH RISE
3	56	*1	ALLEN BRADLEY	1492-J3	TERMINAL BLOCK, GRAY, 25A
4	18	*2	ALLEN BRADLEY	1492-M5X12	MARKER LABELS, SNAP-IN, 5MM X 12MM (2 PER TERMINAL)
		*1	ALLEN BRADLEY	1492-JG3	TERMINAL BLOCK, GROUNDING
5	8	*2	ALLEN BRADLEY	1492-M5X12	MARKER LABELS, SNAP-IN, 5MM X 12MM (2 PER TERMINAL)
		*1	ALLEN BRADLEY	1492-H5	FUSED TERMINAL BLOCK, 10-57V AC/DC, LED INDICATION
		*1	FERRAZ SHAWMUT	GDL1	FUSE, GLASS, 1/4" X 1-1/4", 1A, TIME DELAY
		*1	ALLEN BRADLEY	1492-MS8X12	MARKER LABELS, SNAP-IN, 8MM X 12MM, (1 - PER FUSED TERMINAL)
6	8		ALLEN BRADLEY	1492-EBJ3	END BARRIER, J SERIES TERMINALS
7	3		ALLEN BRADLEY	1492-EBJ3-Y	END BARRIER, J SERIES GROUNDING TERMINALS
8	1		ALLEN BRADLEY	1492-N37	END BARRIER, FUSED TERMINALS
9	18		ALLEN BRADLEY	1492-EAJ35	DIN RAIL END ANCHORS
10	2		ALLEN BRADLEY	1492-GM35	TERMINAL STRIP MARKER
11	5		ALLEN BRADLEY	1492-GH010	MINIATURE CIRCUIT BREAKER, 1A
12	1		ALLEN BRADLEY	1492-GH020	MINIATURE CIRCUIT BREAKER, 2A
13	3		ALLEN BRADLEY	1492-GH030	MINIATURE CIRCUIT BREAKER, 3A
14	1		ALLEN BRADLEY	1492-GH050	MINIATURE CIRCUIT BREAKER, 5A
15	1		ALLEN BRADLEY	1492-GH100	MINIATURE CIRCUIT BREAKER, 10A
16	1		ALLEN BRADLEY	1492-GH150	MINIATURE CIRCUIT BREAKER, 15A
17	1		ALLEN BRADLEY	700-HLT12U1	RELAY, 120 VAC, DPDT
18	1		APC	BR800BLK	UNINTERRUPTIBLE POWER SUPPLY, 800VA, 120VAC
19	1	*1	AUTOMATION DIRECT	D3-350	AUTOMATION DIRECT CPU,
*		*1	AUTOMATION DIRECT	F3-16ND3F	AUTOMATION DIRECT, DIGITAL INPUT MODULE, 24VDC, 16 POINT
*		*1	AUTOMATION DIRECT	D3-08TD2	AUTOMATION DIRECT, DIGITAL OUTPUT MODULE, 24VDC, 8 POINT
*		*1	AUTOMATION DIRECT	F3-04ADS	AUTOMATION DIRECT, ANALOG INPUT MODULE, 4 CHANNEL
*		*1	AUTOMATION DIRECT	F3-04DA-1	AUTOMATION DIRECT, ANALOG OUTPUT MODULE, 4 CHANNEL
*		*1	AUTOMATION DIRECT	D3-05B-1	AUTOMATION DIRECT, 5-SLOT BASE RACK
20	1		CONTROL CONCEPTS	IE-120	LINE FILTER/SURGE SUPPRESSOR, 20A, DIN RAIL MOUNT
21	1	*1	HOFFMAN	A-36H30DLP	ENCLOSURE, 36"H X 30"W X 12"D, NEMA 4, WALL MOUNT
*		*1	HOFFMAN	A-36P30	ENCLOSURE SUBPANEL
*		*1	HOFFMAN	A-DK30SS	ENCLOSURE DRIP SHIELD
22	1		HOFFMAN	D-AH4001A	HEATER, 400W, THERMOSTAT CONTROLLED
23	1		MDS	9710B	REMOTE DATA TRANSCEIVER, 900 MHZ
24	A/R	*1	PANDUIT	C2WH6	WIRE DUCT COVER, 2", WHITE, 6 FT
*		*1	PANDUIT	G2X4WH6	WIRE DUCT, 2"W X 4"H, WHITE, 6 FT
25	1		PHOENIX CONTACT	2963860	RECEPTACLE, SINGLE OUTLET, 15A, DIN-RAIL MOUNT
26	1		POLYPHASER	ISB-50HNC2	COAX CABLE SURGE SUPPRESSOR
27	1		SOLA-HEVI/DUTY	SDN 9-12-100P	12VDC POWER SUPPLY, 9A
28	1		SOLA-HEVI/DUTY	SDN 5-24-100P	24VDC POWER SUPPLY, 5A
29	1		PANEL BUILDER	-	25-PIN SERIAL CABLE, PLC TO RADIO
30	1		PANEL BUILDER	-	PHENOLIC TAG, 3" X 5", 1/2" TEXT, WHITE BACKGROUND, BLACK TEXT
31	1		PANEL BUILDER	-	RADIO SHELF, 8"W X 8"D, BACK PANEL MOUNTED
32	1		PANEL BUILDER	-	COAX CABLE, RADIO TO SURGE SUPPRESSOR

NOTES:

- 24VDC POWER WIRES TO BE BLUE IN COLOR.
- 24VDC COMMON WIRES TO BE BLUE WITH A WHITE TRACER IN COLOR.
- 120VAC HOT WIRES TO BE BLACK IN COLOR.
- 120VAC NEUTRAL WIRES TO BE WHITE IN COLOR.
- ALL GROUNDING WIRES SHALL BE GREEN IN COLOR.
- TWISTED PAIR CABLES INSIDE CONTROL PANEL TO BE BELDEN #8760.
- ALL CONTROL PANEL WIRING TO BE 16 AWG, (UL 1015, 105°C, TINNED COPPER STRANDED) UNLESS OTHERWISE NOTED.
- NO SPLICES IN CONTROL WIRING SHALL BE PERMITTED.
- ALL TERMINAL BLOCKS SHALL HAVE PERMANENT SNAP IN (NOT ADHESIVE) MARKERS INSTALLED SUCH AS ALLEN BRADLEY 1492-M SERIES, OR ENGINEER APPROVED EQUAL.
- ALL WIRES AND CABLES BOTH ON FIELD CONNECTION SIDE, ANY JUNCTION BOXES, AND AT ALL PANELS SHALL HAVE PERMANENT MARKER LABELS INSTALLED SUCH AS BRADY PERMASLEEVE TYPE, OR ENGINEER APPROVED EQUAL.
- THERE SHALL BE A MINIMUM OF 6" SLACK IN EACH WIRE TO BE TERMINATED IN THE CONTROL PANEL. THE SLACK WIRE SHALL BE LOCATED IN WIREWAY INSIDE THE CONTROL PANEL.
- ANY DESIGN CHANGES SHALL BE APPROVED PRIOR TO IMPLEMENTATION BY ENGINEER OF RECORD.
- INSTALL PANDUIT FWR-C WIRE RETAINERS 6" O.C. IN WIREWAYS.
- PANEL FABRICATOR TO LOCATE DEVICES IN APPROXIMATE LOCATIONS AS INDICATED ON DRAWING.