BOM ITEM NO.	QTY	COMPONENT ID	DESCRIPTION	PART NUMBER	MANUFACTURER
1	1		ANGUIL SUPPLIED - ANGUIL, LOGO, NAME PLATE	AESLOGO	ANGUIL
2					
3					
4	1		MODIFIED ENCLOSURE PER DRAWING CSD483612M002	CSD483612M002	HOFFMAN
5	1		SUB PANEL, 46.20" x 34.20", STEEL, WHITE FINISH	CP4836	HOFFMAN
6	1		MOUNTING KIT, ENCLOSURE, USED ON PTD, BRACKET, STEEL, ZINC PLATED	CMFK	HOFFMAN
7					
8					
9	5	GND BAR	GROUND BAR, 10-CIRCUIT, ALUMINUM, MULTIPLE CONDUCTORS, #4-#14 AWG	4-14 (12112)	T&B
10					
11	1	CB1311	CIRCUIT BREAKER, 10A, 1-POLE, 277V AC/48V DC, SUPPLEMENTARY, 10kA, DIN RAIL MTG, TRIP CURVE C	1489-A1C100	AB
12	1	CB3270	CIRCUIT BREAKER, 5A, 1-POLE, 277V AC/48V DC, SUPPLEMENTARY, 10kA, DIN RAIL MTG, TRIP CURVE C	1489-A1C050	AB
13					
14					
15	1	FAN1380	FILTER FAN, 8.78" X 8.78" CUTOUT, 115V AC, 147 CFM FREE AIR, 120 CFM INSTALLED, LT GRAY (RAL 7035), NEMA 12, NORMAL OR REVERSE FLOW, MATCHES EXHAUST GRILLE/FILTER 3240200	3241110	RITTAL
16	1	FAN1380	EXHAUST GRILLE/FILTER, 8.78" X 8.78" CUTOUT, LT GRAY (RAL 7035), NEMA 12, MATCHES FILTER FAN 3241110	3240200	RITTAL
17	1	FAN1380	FILTER MATS, 5 PACK, MATCHES FILTER FAN 3241110 & EXHAUST GRILLE 3240200	3172100	RITTAL
18					
19	1	PS1490	POWER SUPPLY, 120 WATT, 24V DC OUTPUT, 120/230V AC 1 - PHASE INPUT, DIN RAIL MTG, SWITCHED MODE	1606-XL120D	AB
20					
21	1	PB11410, LT1430	PUSH-PULL ILL 2 POS RED MUSHRROM HEAD, LED,12-130V AC/DC, 1 NO 1 NCLB, 30.5 MM	800T-FXQH2RA1	AB
22	1	PB11410, LT1430	GUARD, PUSHBUTTON, 30.5mm, 2-POS PUSH-PULL/E-STOP, STAINLESS STEEL	800T-N310	AB
23	1	PB11410, LT1430	LEGEND PLATE, YELLOW W/ BLACK TEXT	LP-30MM-ESTOP	TICC
24	1	LT4460	30.5MM TYPE 4/13 PILOT LIGHT, LED, RED, 12-130V AC/DC	800T-QH2R	AB
25	1	LT1640	30.5MM TYPE 4/13 PILOT LIGHT LED, WHITE 12-130V AC/DC	800T-QH2W	AB
26					
27	2	PB1411, PB5300	PUSHBUTTON, 30.5mm NEMA 4/13, 2-POS MOMENTARY, FLUSH, GREEN, NON-ILLUMINATED, 1 NO, STANDARD, ROUND METAL	800T-A1D1	AB
28	1	SW2360	SELECTOR SWITCH, 30.5mm NEMA 4/13, STANDARD KNOB, 2-POS SPRING RETURN FROM RIGHT, BLACK w/WHITE INSERT, NON-ILLUMINATED, 1 NO 1 NC, STANDARD, ROUND METAL	800T-H5A	AB
29	1	SW2360	CONTACT BLOCK, 1 NO 1 NC, SHALLOW BLOCK, PUSHBUTTON, 800T-	800T-XA	AB
30					
31	1	HOA101	SELECTOR SWITCH, 30.5mm NEMA 4/13, STANDARD KNOB, 3-POS MAINTAINED, BLACK w/WHITE INSERT, NON-ILLUMINATED, 1 NO 1 NC, STANDARD, ROUND METAL	800T-J2A	AB
32	6	LT4460, LT1640, PB1411, PB5300, SW2360, HOA101	LEGEND PLATE, WHITE W/ BLACK TEXT	LP-30MM-902	TICC
33	1	AL4480	PANEL MT SOUNDER, 22.5mm, IP65/NEMA 4/4X/13, 120V AC 50/60 Hz, 105 dB, STEADY TONE, 65mm Alarm, BLACK HOUSING, TERMINAL: PLUG-IN TERMINAL BLOCK	855P-B10LE22	AB
34					
35					

BOM ITEM NO.	QTY	COMPONENT ID	DESCRIPTION	PART NUMBER	MANUFACTURER
36					
37					
38	15	MCR1410, CR2040, CR4380, CR4420, CR4440, CR4500, CR4540, CR4600, CR4620, CR4640, CR5050, CR5110, CR5130, CR5150, CR5250,	RELAY, 4 NO, MINI CONTROL, 110V 50Hz/120V 60Hz, IEC SCREW, 500V AC, DIN/BASE MTG, 10A	XTRM10A40A	EATON
39	1	CR4360	RELAY, 2NO 2NC, 120V AC, IEC SCREW, DIN/BASE MTG, 10A, 500V AC, MINI-CONTROL,	XTRM10A22A	EATON
40					
41					
42	1	TR2310	TIMING RELAY, ANALOG, PIN STYLE QUICK CONNECT, 120V AC, DIN RAIL MTG, ON-DELAY, DPDT, 1 OR 10 SEC/MIN/HRS	339B200Q2X	ATC
43	1	TR2310	RELAY SOCKET, DIN RAIL SNAP-MOUNT, 8 SCREW TERMINALS, USED ON GE1A/GT3/GT5P/RR1PA/RR2P	SR2P-06	IDEC
44					
45	2	ISB5340, ISB5430	I-SAFE BARRIER, DUAL CHANNEL, SWITCH ISOLATOR, 24V DC, 8V DC @ 8 mA INPUT, 1 FORM C RELAY OUTPUT	KFD2-SR2-Ex2.W	P+F
46					
47	1	SW1580	ETHERNET SWITCH, UN-MANAGED, 5-PORT, 24V DC, DIN RAIL MTG	LNX-500A	AAXEON
48	3	HMI1490, CREC1490, REC1610	CABLE, CAT5, ETHERNET, 96" LONG, RJ45M TO RJ45M, STRAIGHT THRU	RJ45M-096-000-RJ45M	CC&H
49	1	PLC1490	CABLE, CAT5, ETHERNET, 24" LONG, RJ45M TO RJ45M, STRAIGHT THRU	RJ45M-024-000-RJ45M	CC&H
50	1	MOD1490	CABLE, CAT5, ETHERNET, 12" LONG, RJ45M TO RJ45M, STRAIGHT THRU	RJ45M-012-000-RJ45M	CC&H
51	1	REC1610	LEGEND PLATE, WHITE W/ BLACK TEXT	LAM-5.00-3.50-902	TICC
52	1	REC1610	ETHERNET PORT, CAT5 RJ45 F/F BULKHEAD, 120V AC, 15A, DUPLEX GFCI, IP65/NEMA 12/4, PANEL MOUNT	P-R2-K3RF5	GRACE ENGINEERING
53					
54					
55					
56	19	FU2010, FU2400, FU4340, FU4400, FU4520, FU5010, FU5030, FU5060, FU5100, FU5120, FU5140, FU5160, FU5180, FU5200, FU5220, FU5240, FU5260, FU5280, FU5520	TERMINAL FUSE BLOCK, BLACK, 1/4" X 1-1/4" FUSE, NEON INDICATOR, NEMA/EEMAC, 12A, 300V AC, 30 - 12 AWG, 1-CIRCUIT, A-B/DIN RAIL MTG	1492-H4	AB
57	1	FU'S	END BARRIER, TERMINAL BLOCK, BLACK, 1.96" x 2.81" x .11", NEMA/EEMAC, 1492-H	1492-N37	AB
58					
59					
60	1	FU2010	FUSE, 1/4" X 1-1/4", 5 AMPS, 250V AC, TIME DELAY, NON-INDICATING, GLASS TUBE	MDL-5	BUSSMANN
61	1	FU2400	FUSE, 1/4" X 1-1/4", 3 AMPS, 250V AC, TIME DELAY, NON-INDICATING, GLASS TUBE	MDL-3	BUSSMANN
62	17	FU4340, FU4400, FU4520, FU5010, FU5030, FU5060, FU5100, FU5120, FU5140, FU5160, FU5180, FU5200, FU5220, FU5240, FU5260, FU5280, FU5520	FUSE, 1/4" X 1-1/4", 2A, TIME DELAY, 250V AC, NON-INDICATING, GLASS TUBE	MDL-2	BUSSMANN
63					
64					

BOM ITEM NO.	QTY	COMPONENT ID	DESCRIPTION	PART NUMBER	MANUFACTURER
65	142	TB1, TB2, TB3	TERMINAL BLOCK, GRAY, SCREW, 25A, 600V AC/DC, 22 - 12 AWG, FEED THRU, 1-CIRCUIT, DIN RAIL MTG.	1492-J3	AB
66	7	TB1	TERMINAL BLOCK, GRAY, IEC SCREW 30 - 12 AWG, K THERMOCOUPLE, 2-CIRCUIT, DIN RAIL MTG., NOT UL RATED	1492-JTC3K	AB
67	3	TB1, TB2, TB3	END BARRIER, TERMINAL BLOCK, GRAY, USED ON 1492-J	1492-EBJ3	AB
68	6	TB1, TB2, TB3	END ANCHOR, TERMINAL BLOCK, SCREWLESS FASTENING, 0.31" X 2.20" X 1.85", IEC, 35mm DIN RAIL	1492-EAJ35	AB
69	2	TB2	JUMPER, TERMINAL BLOCK, 10-POLE, INSULATED, PLUG-IN, 5mm CENTER-to-CENTER, 1492-LM3/-LC3/-LDC3/-LDAG3/-LDG3P/-JKD3/-J3P/-J3/-J3TW	1492-CJLJ5-10	AB
70					
71					
72	A/R		MOUNTING RAIL, RIGID, DIN, 2 M	98.300.1000	WIELAND
73	A/R		PANEL CHANNEL, 1X4 WHITE	G1X4WH6	PANDUIT
74	A/R		COVER, PANEL CHANNEL, WHITE 1"	C1WH6	PANDUIT
75	A/R		SLOTTED DUCT, PVC, 1X2 WHITE	G1X2WH6	PANDUIT
76					
77	A/R		SLOTTED DUCT, PVC, 1.5X4X6 WHT	G1.5X4WH6	PANDUIT
78	A/R		COVER, PANEL CHANNEL, WHITE 1.5"	C1.5WH6	PANDUIT
79	A/R		LABEL, SPEC/FUSE/TORQUE, ENGRAVED, SILVER, 3" X 2"	THT-19-435-1-PR	TICC
80	A/R		LABEL, ID, ENGRAVED, 1" X 0.5"	THT-5-435-10-PR	TICC
81	A/R		LABEL, WIREMARKER, .ENGRAVED, 5" X.75"	THT-68-499-10-PR	TICC
82					
83					
84					
85	1	VFD105	REMOTE HIM MODULE	20-HIM-C3S	AB
86	1	PLC1490	PROCESSOR MODULE	1769-L32E	AB
87	1	PLC1490	PLC POWER SUPPLY	1769-PA4	AB
88	1	PLC1490	END CAP	1769-ECR	AB
89	2	PLC1490	INPUT MODULE, 16 POINT, AC	1769-IA16	AB
90	1	PLC1490	OUTPUT MODULE, 16 POINT, CONTACT	1769-OW16	AB
91	1	PLC1490	OUTPUT MODULE, 8 POINT, ANALOG	1769-OF8C	AB
92	1	PLC1490	INPUT MODULE, 8 POINT, ANALOG	1769sc-IF8u	AB
93					
94	1	HMI1490	PANELVIEW PLUS COMPACT, 10" COLOR, TOUCH, 24V DC INPUT POWER	2711PC-T10C4D1	AB
95					
96	1	MOD1490	ETHERNET PHONE MODEM/SWITCH	EW2620B	eWON
97					
98	1	CREC1490	CHART RECORDER, DATA ACQUISITION	NANODAC/VH/X/X/LRR/XX/ES/SV/XXXXX/ENG/XXX/XXXXX/XXXXXX/XX/XX	EUROTHERM
99					
100					
101	3	HLC4120, HLC4190, HLC4260	HIGH LIMIT CONTROLLER	07SL-91113-000-0-00	EUROTHERM
102	6	VFD105, FSC235, CREC1490,HLC4120, HLC4190, HLC4260	LEGEND PLATE, WHITE W/ BLACK TEXT	LAM-2.50-0.625-902	TICC
103					
104					
105	1	FSC235	FLAME SAFETY CONTROL	MEC120RD	FIREYE
106	1	FSC235	WIRING BASE	61-5042	FIREYE
107	1	FSC235	PURGE TIMER	MEP104	FIREYE
108	1	FSC235	UV FLAME ROD AMPLIFIER	MERT4	FIREYE
109	1	FSC235	REMOTE DISPLAY	ED510	FIREYE
110	1	FSC235	REMOTE DISPLAY MTG BKT AND CABLE	129-145-2	FIREYE
111					
112					
113					
114					

REV	BY	DATE	CHANGE
A	RLG	9/18/12	AS BUILT

ANGUIL

ANGUIL ENVIRONMENTAL SYSTEMS, INC.
MILWAUKEE, WISCONSIN

TITLE
MODEL 20 CATALYTIC OXIDIZER
MAIN CONTROL PANEL
ELECTRICAL BOM

DRAWING NO. 16512457

REV. A

CUSTOMER
SHAW ENVIRONMENTAL
KIRTLAND AFB, NM

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SOURCE –

NOTE:

DRAWN RLG DATE 8/19/12

AUTOCAD PATH JOBS\16000s\16512\ELEC

SCALE NONE

CHECKED: DATE:

APPROVED: DATE:

LAST CHANGED BY: DATE: