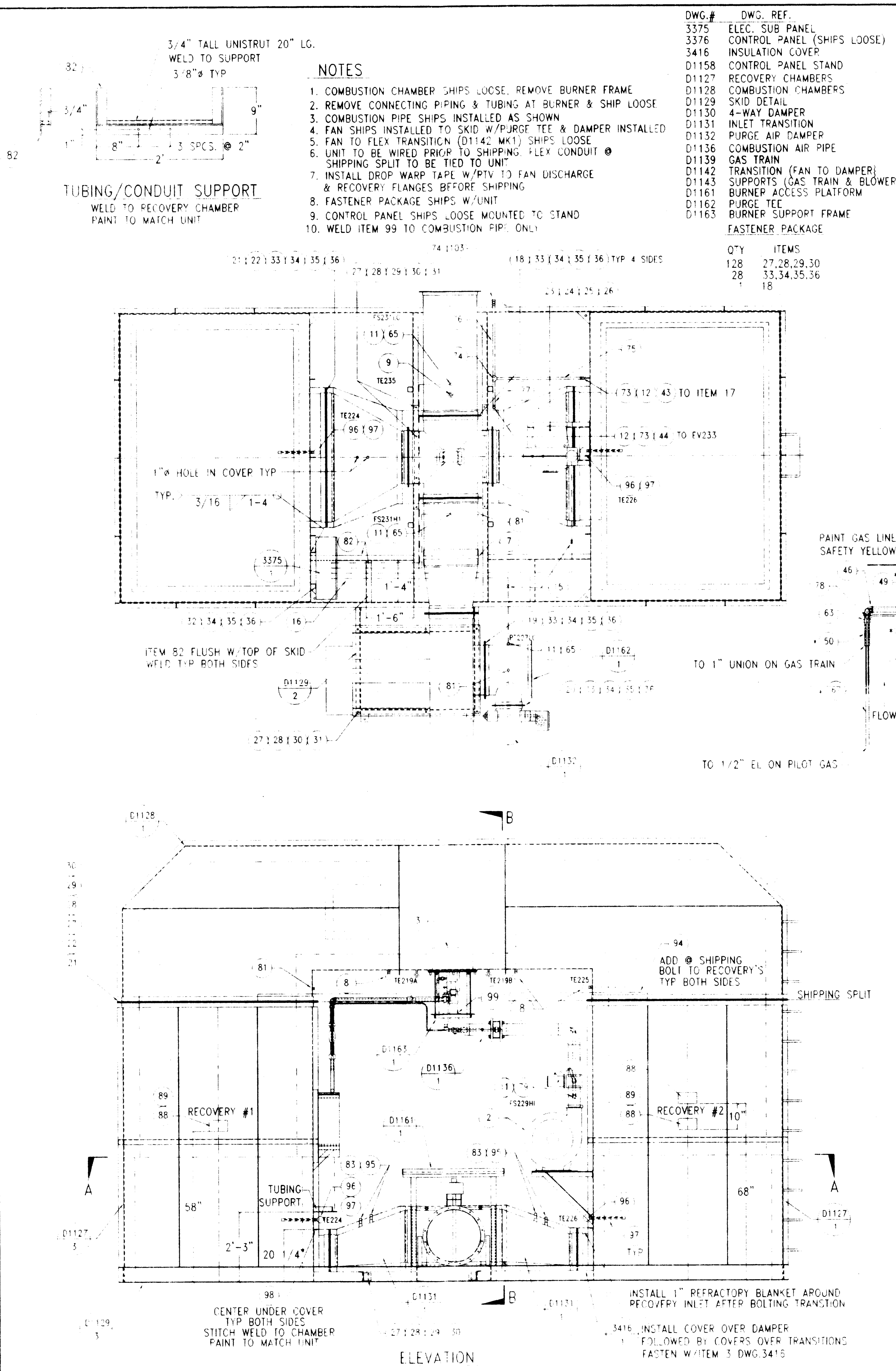
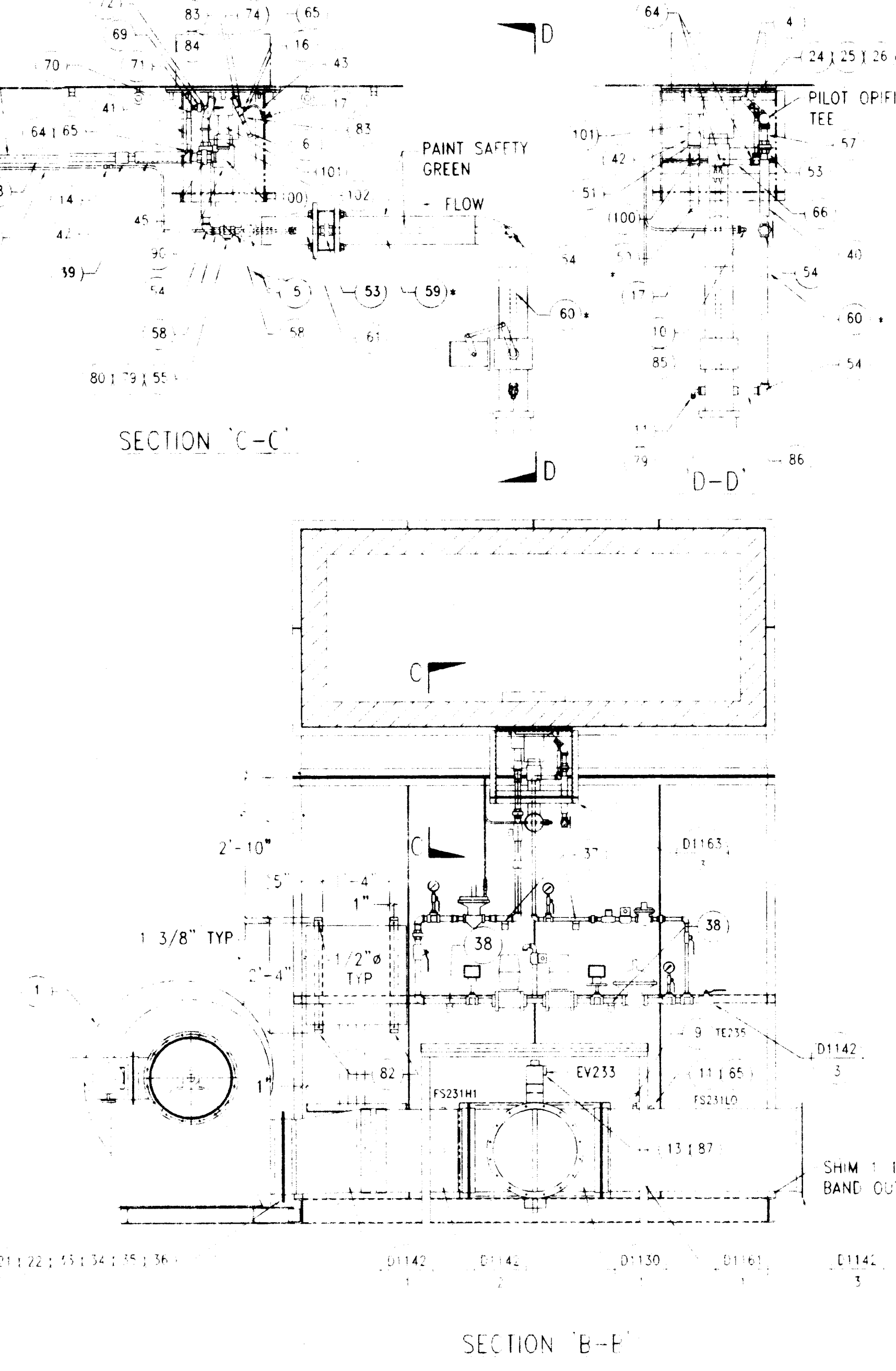




BILL OF MATERIALS			
ITEM	QTY	MANUFACTURER/P.N.	DESCRIPTION
75	1		PIPE, 1/2" X 33" T.B.E. GALV.
76	1		PIPE, 1/2" X 28" T.B.E. GALV.
77	1		PIPE, 1/2" X 10" T.B.E. GALV.
78	1		PIPE NIPPLE, 1/2" X 2" BLACK STEEL
79	2		REDUCER BUSHING, 3/4" NPT X 1/4" NPT BLACK STEEL
80	1		PLUG, 1/4" NPT BLACK STEEL
81	5		PLUG, 1/2" NPT BLACK STEEL
82	AS REQ'D		L 2 X 2 X 3/16" LG. A-36
83	6		PIPE NIPPLE, 1/2" X 3" GALV.
84	2		REDUCER BUSHING, 3/4" NPT X 1/2" NPT GALV.
85	1		REDUCER BUSHING, 3/4" NPT X 3/8" NPT BLACK STEEL
86	1		PIPE NIPPLE, 1/2" X 4" GALV.
87	2	GRAINGER, 1A324	MUFFLER, 1/4"
88	2		LABELS, "RECOVERY #1" & "RECOVERY #2"
89	3	DWG. B1103	NAME PLATE MOUNTING BRACKET SS
90	1	McMASTER-CARR 4-11K999	FLEX CONNECTOR, 2 1/2" X 2 1/2" LG. PVC
91	1	EMED, EM16002	LABEL, "COMPRESSED AIR"
92	4	EMED, EM755A	LABEL, "NATURAL GAS"
93	4	EMED, EM1565A	LABEL, "AIR"
94	2		L 3" X 3" X 1/4" X 12'-4" LG. A-36
95	4		CAP, 1/2" NPT GALV.
96	2	OMEGA, NB1-CAIN-14U-12	THERMOCOUPLE, 12", TYPE K, 1/4" INCONEL SHEATH, UNGROUNDED
97	2	OMEGA, 1/2-250S-U10 1/2-CS	THERMOWELL, 1/2" NPT CARBON STEEL
98	2		ANGLE, 1 1/4" X 1 1/4" X 3/16" X 4' LG. A-36
99	1		ANGLE, 1 1/2" X 1 1/2" X 3/16" X 21" LG. A-36
100	1		STREET EL, 90° 1" NPT BLACK STEEL
101	1		PIPE NIPPLE, 1 1/2" NPT X 4 1/2" LG. BLACK STEEL
102	1		FULL COUPLING, 1 1/2" NPT BLACK STEEL
103	1	ASHCROFT, B4-14V-5-100	PRESSURE SWITCH, 5-100 PSI W. NEMA 4X COVER

BILL OF MATERIALS			
ITEM	QTY	MANUFACTURER/P.N.	DESCRIPTION
1	1	I.A.P., ORB-19	FAN, 8000 CFM, ARR. 9, 1725 RPM, W/40 HP TEFC MOTOR
2	1	NORTH AMERICAN, 2316-17/2-120	BLOWER, 220 CFM @ 16 O.S.I. W/2 HP TEFC MOTOR
3	1	NORTH AMERICAN, 4841-5F	BURNER, HOT SPOT, 960,000 BTU MAX.
4	1	NORTH AMERICAN, 4020-0-HP	NOZZLE MIX GAS PILOT
5	1	NORTH AMERICAN, 1122-0	BUTTERFLY VALVE, 3/4"
6	1	HONEYWELL, 17027A 1049	U.V. SCANNER, MINI PEEPER
7	1	EJCON, #RE2-300	FAN FLEX CONNECTOR, 20" I.D. X 6" WIDE 1/4" THK. EPDM, W/FIBERGLASS REINF.
8	3	OMEGA, NB1-CAIN-14U-18	THERMOCOUPLE, 18", TYPE K, 1/4" INCONEL SHEATH, UNGROUNDED
9	1	OMEGA, NB1-CAIN-14U-06	THERMOCOUPLE, 6", TYPE K, 1/4" INCONEL SHEATH, UNGROUNDED
10	1	SWAGelok, SS-600-2-6	MALE ELBOW, 3/8" TUBE X 3/8" NPT SS
11	5	SWAGelok, SS-400-2-4	MALE ELBOW, 1/4" TUBE X 1/4" NPT SS
12	2	SWAGelok, SS-600-1-8	MALE CONNECTOR, 3/8" TUBE X 1/2" NPT SS
13	1	SWAGelok, SS-600-1-4	MALE CONNECTOR, 3/8" TUBE X 1/4" NPT SS
14	1	SWAGelok, SS-600-6	UNION, 3/8" TUBE X 3/8" TUBE SS
15	2	SWAGelok, SS-400-6	UNION, 1/4" TUBE X 1/4" TUBE SS
16	1	SWAGelok, SS-400-1-4	MALE CONNECTOR, 1/4" TUBE X 1/4" NPT SS
17	1	SWAGelok, B-4JN-BK	NEEDLE VALVE, 1/4" TUBE X 1/4" TUBE
18	5	HS WHITE	GASKET, C4401 MAT'L 19 5/8" I.D., 23 1/8" O.D. (16) 1/2" HOLES ON 24 3/4" B.C.
19	1	HS WHITE	GASKET, NEOPRENE, 19 1/2" I.D., 22 1/2" O.D. (16) 7/16" HOLES ON 21 1/8" B.C.
20	1	HS WHITE	GASKET, NEOPRENE, 10 1/8" I.D., 12 7/8" O.D. (6) 7/16" HOLES ON 11 13/16" B.C.
21	100'	HS WHITE	FIBERGLASS DROPWARP TAPE, 1/8" X 2"
22	AS REQ'D		RTV, RED HI TEMP.
23	3		HEX BOLTS, 5/8" X 1 1/2" GALV.
24	7		HEX NUTS, 5/8" GALV.
25	7		FLAT WASHERS, 5/8" GALV.
26	7		LOCK WASHERS, 5/8" GALV.
27	208		HEX BOLTS, 1/2" X 1 1/2" GALV.
28	208		HEX NUTS, 1/2" GALV.
29	208		FLAT WASHERS, 1/2" GALV.
30	208		LOCK WASHERS, 1/2" GALV.
31	12		BEVEL WASHERS, 1/2" GALV.
32	4		HEX BOLTS, 3/8" X 3/4" GALV.
33	118		HEX BOLTS, 3/8" X 1 1/4" GALV.
34	118		HEX NUTS, 3/8" GALV.
35	118		FLAT WASHERS, 3/8" GALV.
36	118		LOCK WASHERS, 3/8" GALV.
37	2		UNISTRUT CLAMPS, 1" PIPE
38	2		UNISTRUT CLAMPS, 1/2" PIPE
39	1		FLEX NIPPLE, 1" NPT X 12" SS
40	1		FLEX NIPPLE, 3/4" NPT X 12" SS
41	1		FLEX NIPPLE, 1/4" NPT X 7" SS
42	1		FULL COUPLING, 1" NPT BLACK STEEL
43	100FT		TUBING, 1/4" O.D. SS
44	20'		TUBING, 3/8" O.D. SS
45	1		UNION, 1" NPT BLACK STEEL
46	1		ELBOW 90°, 1" NPT BLACK STEEL
47	1		PIPE NIPPLE, 1" NPT X 3" BLACK STEEL
48	1		PIPE NIPPLE, 1" NPT X 2" BLACK STEEL
49	1		PIPE, 1" X 36" LG. T.O.E. BLACK STEEL
50	1		PIPE, 1" X 10" T.O.E. BLACK STEEL
51	1		REDUCER BUSHING, 1 1/2" NPT X 1" NPT BLACK STEEL
52	X		X
53	2		UNION, 3/4" NPT BLACK STEEL
54	3		ELBOW 90°, 3/4" NPT BLACK STEEL
55	1		TEE, 3/4" NPT BLACK STEEL
56	1		PIPE NIPPLE, 3/4" NPT X 4" BLACK STEEL
57	1		PIPE NIPPLE, 3/4" NPT X 3" BLACK STEEL
58	2		PIPE NIPPLE, 3/4" NPT X 2" BLACK STEEL
59	1		PIPE, 3/4" X 30" LG. T.O.E. BLACK STEEL
60	1		PIPE, 3/4" X 26" LG. T.O.E. BLACK STEEL
61	1		PIPE, 3/4" X 11 1/2" T.B.E. BLACK STEEL
62	X		X
63	1		UNION, 1/2" NPT BLACK STEEL
64	3		ELBOW 90°, 1/2" NPT BLACK STEEL
65	2		REDUCER BUSHING, 1/2" NPT X 1/4" NPT BLACK STEEL
66	1		PIPE NIPPLE, 1/2" NPT X 5" BLACK STEEL
67	1		PIPE, 1/2" X 36" LG. T.O.E. BLACK STEEL
68	2		PIPE, 1/2" X 40" LG. T.O.E. BLACK STEEL
69	1		UNION, 1/4" NPT BLACK STEEL
70	1		ELBOW 90°, 1/4" NPT BLACK STEEL
71	1		PIPE NIPPLE, 1/4" NPT X CLOSE BLACK STEEL
72	1		PIPE NIPPLE, 1/8" NPT X 2" BLACK STEEL
73	2		ELBOW 90°, 1/2" NPT GALV.
74	3		TEE, 1/2" NPT GALV.



PERMA-FIX ENVIRONMENTAL SERVICES
REGENERATIVE OXIDIZER
ASSEMBLY

DATE: 8-11-99
PROJECT: 2832

SCALE: 1/2" = 1'
DRAWING NO: 3377
REV: 4