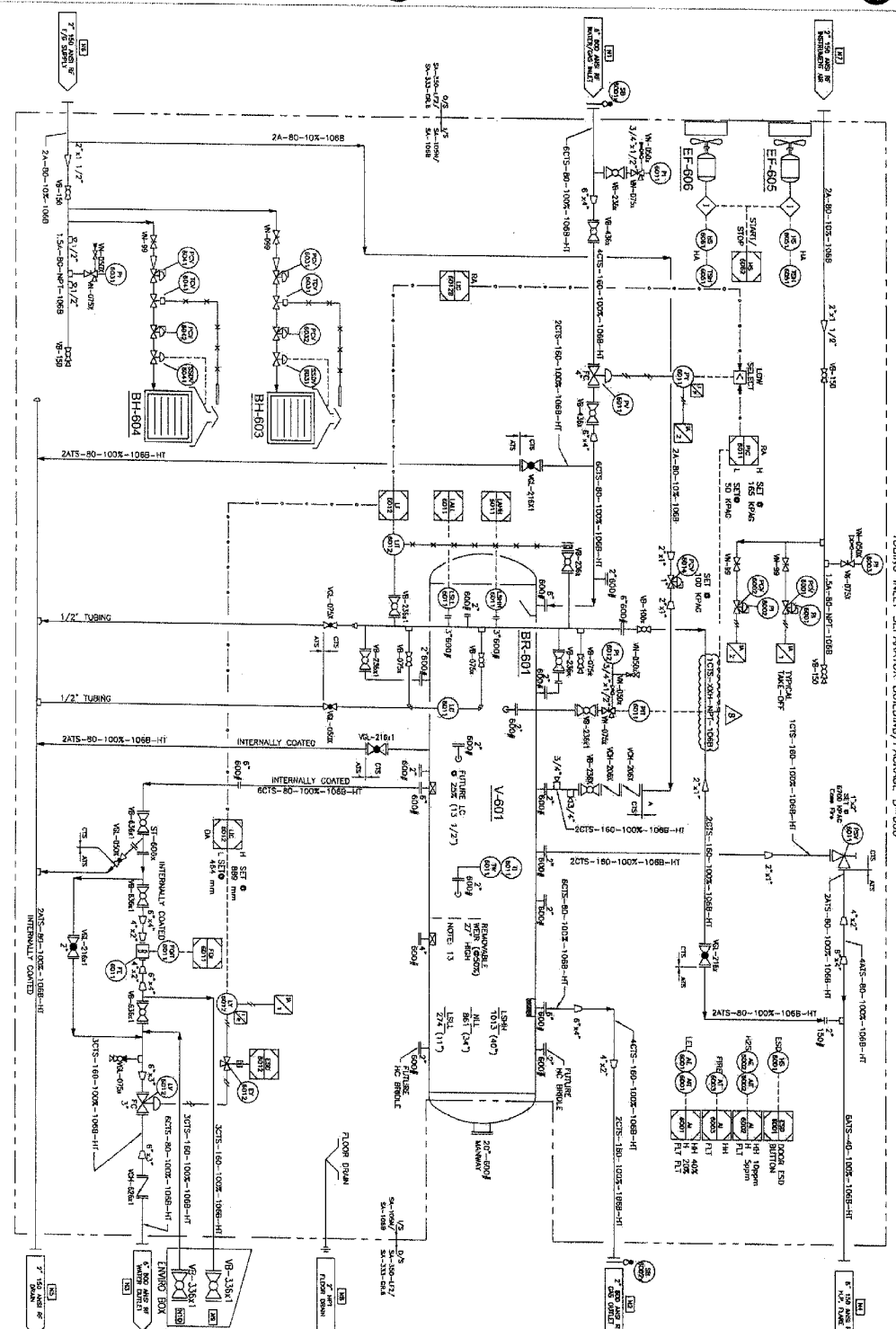


V-601
INLET SEPARATOR
SIZ: 54" I.D. x 14'-0" (487 mm) S/S 3-PHASE
MWP: 1500 PSIG (9300 kPa) @ 200° F (93°C)
CAT: 0.135" (3.4 mm)
FALL INTERNALLY COATED

BH-603/604
CATALYTIC BUILDING HEATER
SIZ: 24" I.D. x 14'-0" (487 mm) S/S 3-PHASE
MWP: 1500 PSIG (9300 kPa) @ 200° F (93°C)
CAT: 0.135" (3.4 mm)
FALL INTERNALLY COATED

EF-605/606
EXPANSTION HEATER
SIZ: 24" I.D. x 14'-0" (487 mm) S/S 3-PHASE
MWP: 1500 PSIG (9300 kPa) @ 200° F (93°C)
CAT: 0.135" (3.4 mm)
FALL INTERNALLY COATED



ITEM NUMBER	DESCRIPTION	REVISIONS
1	Initial Design	1
2	Revised Design	2
3	Final Design	3
4	As-Built	4
5	Revised Design	5
6	Final Design	6
7	As-Built	7
8	Revised Design	8
9	Final Design	9
10	As-Built	10
11	Revised Design	11
12	Final Design	12
13	As-Built	13
14	Revised Design	14
15	Final Design	15
16	As-Built	16
17	Revised Design	17
18	Final Design	18
19	As-Built	19
20	Revised Design	20
21	Final Design	21
22	As-Built	22
23	Revised Design	23
24	Final Design	24
25	As-Built	25
26	Revised Design	26
27	Final Design	27
28	As-Built	28
29	Revised Design	29
30	Final Design	30
31	As-Built	31
32	Revised Design	32
33	Final Design	33
34	As-Built	34
35	Revised Design	35
36	Final Design	36
37	As-Built	37
38	Revised Design	38
39	Final Design	39
40	As-Built	40
41	Revised Design	41
42	Final Design	42
43	As-Built	43
44	Revised Design	44
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91	As-Built	91
92	Revised Design	92
93	Final Design	93
94	As-Built	94
95	Revised Design	95
96	Final Design	96
97	As-Built	97
98	Revised Design	98
99	Final Design	99
100	As-Built	100

PLAN

ELEVATION 'A-A'

VIEW 'B-B'

CONNECTION SCHEDULE					
MARK	SIZE	RATING	TYPE	DESCRIPTION	% ALLOWANCE
N1	6"	600G	W/IN	3" - 0"	
N2	2"	300G	W/IN	5" - 2 3/4"	
N3	6"	600G	W/IN	1" - 0"	
N4	6"	600G	W/IN	3" - 0"	
N5	2"	150G	W/IN	6" - 2 1/8"	
N6	2"	150G	W/IN	0" - 5"	
N7	2"	150G	W/IN	2" - 10"	
N8	2"	150G	W/IN	4" - 0"	
N9	2"	150G	W/IN	4" - 0"	
N10	3"	300G	W/IN	2" - 5 1/4"	
N11	3"	300G	W/IN	2" - 5 1/4"	

SHIPPING DIMENSIONS	
LENGTH	30'-6"
WIDTH	14'-6"
HEIGHT	14'-2"
WEIGHT	51600 LBS

- [illegible]

SKID NOTES REFER DWG. # 5-02-01.33-01-001
BUILDING NOTES REFER DWG. # 6-02-01.33-01-001

Example: $R_1 = 10 \times 10^3 = 10k\Omega$ $R_2 = 10k\Omega$ $R_3 = 10k\Omega$ $R_4 = 10k\Omega$ $R_5 = 10k\Omega$

THIS DRAWING IS THE PROPERTY OF DESCO INDUSTRIES LTD AND IS LOANED TO THE ALCOHOLIC FOR HIS CONSTRUCTION USE ONLY. IN CONSEQUENCE OF THE LOAN OF THIS DRAWING THE RECIENT PROMISES AND AGREES THAT IT SHALL NOT BE USED IN ANY MANNER DETRIMENTAL TO THE INTEREST OF DESCO INDUSTRIES LTD. THAT IT SHALL BE RETURNED UNFOLDED AND IN FULLY FINISHED CONDITION TO THE COMPANY.

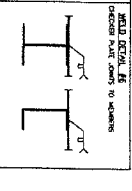
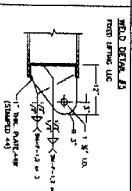
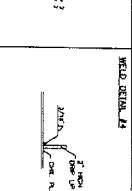
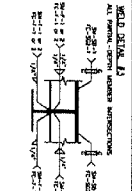
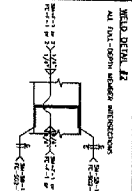
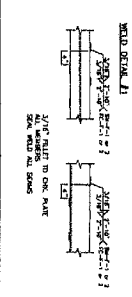
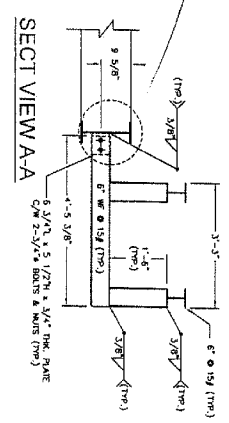
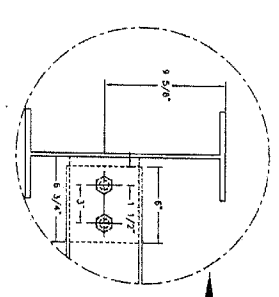
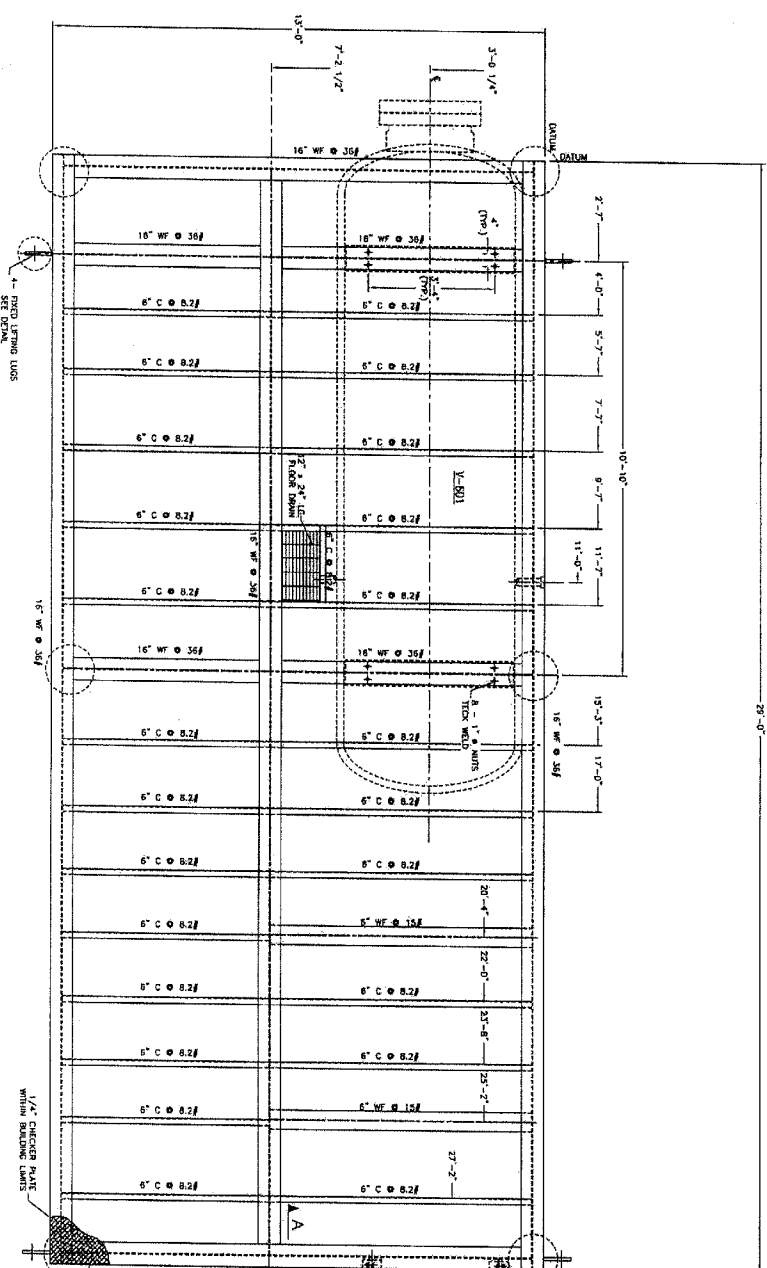
REVISIONS		BY APP		DATE	REVISIONS		BY APP		DATE
No.	DATE								
0	03-03-07								
1	03-03-07								
2	03-03-07								

ENSIGN
Opsco Manufacturing

CLIENT
Busby Oil Operations Limited

PROJECT 54" I.D. x 12'-0" G/S HORIZONTAL, NE/LT SEPARATORS
POCKETBORE / DEPOSIT C. DEWATERING
LSD: 4-081-41/84-0-6

1N



SHO & SUPPLIES WEIGHT

PIPE & WELDS WEIGHT	11,000 LBS
INSULATION WEIGHT	5,000 LBS
FLOORED PEE WEIGHT (400 @ 4" C) = 6200 LBS	
4-601 VESSEL WEIGHT (400 @ 4" C) = 6200 LBS	
4-601 VESSEL WEIGHT (400 @ 4" C) = 6200 LBS	
TOTAL SHIPPING WEIGHT	31,000 LBS
TOTAL FLOORED WEIGHT	18,000 LBS

MAXIMUM PILE LOADS:

DEAD LOAD = 18000 lbs each
 LIVE FLOOR LOAD (100 psf x 1000 sq ft) = 10,000 lbs each
 SNOW LOAD (50 psf) = 5000 lbs each
 OPERATION (LOAD LOADS) = 8000 lbs
 WIND HORIZONTAL, SKEW (104 psf) = 1800 lbs

FABRICATION NOTES:

1. FABRICATING AS PER LAYOUT DRAWING NOTES.
2. FULL PENETRATION WELD TO BE USED FOR ALL JOINTS.
3. UNDERGO INSULATION AS PER LAYOUT DRAWING NOTES.
4. WELDERS ARE TO BE CERTIFIED TO CSA W2.1 DIVISION 1 OR 2.1.
5. SURFACES TO BE PREPARED USING SSPC-SP-6.
6. ALL WELDS TO BE INSPECTED BY NDT.
7. PRIMER/PAINT TO BE APPLIED TO ALL EXPOSED STEEL.
8. FLOW FLOW BROOK & PAINT/INSULATION PAINT WELDS.
9. SHARP FLAT, NO. VERT GROOVES/TELETS.

BILL OF MATERIALS

ITEM	DESCRIPTION	MATERIAL	LENGTH	QTY
1	16" WF @ 36#	350W	29'-0"	2
2	10" WF @ 36#	350W	88'-4 5/8"	2
3	10" WF @ 36#	350W	12'-4 5/8"	2
4	10" WF @ 36#	350W	8'-10 5/8"	2
5	10" WF @ 36#	350W	5'-5 3/4"	2
6	8" C @ 8.2#	350W	6'-10 5/8"	2
7	8" C @ 8.2#	350W	6'-10 5/8"	11
8	8" C @ 8.2#	44W	5'-5 3/4"	13
9	8" C @ 8.2#	44W	5'-5 3/4"	13

REVISIONS

NO.	DATE	REVISIONS	BY	APP.	DATE
1	01/11/06	ISSUED FOR PERMITTING & 2-DRAW	CS		
2	01/11/06	ISSUED FOR CONSTRUCTION	CS		

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100	101	102	103	104	105	106	107	108	109	110	111	112	113	114	115	116	117	118	119	120	121	122	123	124	125	126	127	128	129	130	131	132	133	134	135	136	137	138	139	140	141	142	143	144	145	146	147	148	149	150	151	152	153	154	155	156	157	158	159	160	161	162	163	164	165	166	167	168	169	170	171	172	173	174	175	176	177	178	179	180	181	182	183	184	185	186	187	188	189	190	191	192	193	194	195	196	197	198	199	200	201	202	203	204	205	206	207	208	209	210	211	212	213	214	215	216	217	218	219	220	221	222	223	224	225	226	227	228	229	230	231	232	233	234	235	236	237	238	239	240	241	242	243	244	245	246	247	248	249	250	251	252	253	254	255	256	257	258	259	260	261	262	263	264	265	266	267	268	269	270	271	272	273	274	275	276	277	278	279	280	281	282	283	284	285	286	287	288	289	290	291	292	293	294	295	296	297	298	299	300	301	302	303	304	305	306	307	308	309	310	311	312	313	314	315	316	317	318	319	320	321	322	323	324	325	326	327	328	329	330	331	332	333	334	335	336	337	338	339	340	341	342	343	344	345	346	347	348	349	350	351	352	353	354	355	356	357	358	359	360	361	362	363	364	365	366	367	368	369	370	371	372	373	374	375	376	377	378	379	380	381	382	383	384	385	386	387	388	389	390	391	392	393	394	395	396	397	398	399	400	401	402	403	404	405	406	407	408	409	410	411	412	413	414	415	416	417	418	419	420	421	422	423	424	425	426	427	428	429	430	431	432	433	434	435	436	437	438	439	440	441	442	443	444	445	446	447	448	449	450	451	452	453	454	455	456	457	458	459	460	461	462	463	464	465	466	467	468	469	470	471	472	473	474	475	476	477	478	479	480	481	482	483	484	485	486	487	488	489	490	491	492	493	494	495	496	497	498	499	500	501	502	503	504	505	506	507	508	509	510	511	512	513	514	515	516	517	518	519	520	521	522	523	524	525	526	527	528	529	530	531	532	533	534	535	536	537	538	539	540	541	542	543	544	545	546	547	548	549	550	551	552	553	554	555	556	557	558	559	560	561	562	563	564	565	566	567	568	569	570	571	572	573	574	575	576	577	578	579	580	581	582	583	584	585	586	587	588	589	590	591	592	593	594	595	596	597	598	599	600	601	602	603	604	605	606	607	608	609	610	611	612	613	614	615	616	617	618	619	620	621	622	623	624	625	626	627	628	629	630	631	632	633	634	635	636	637	638	639	640	641	642	643	644	645	646	647	648	649	650	651	652	653	654	655	656	657	658	659	660	661	662	663	664	665	666	667	668	669	670	671	672	673	674	675	676	677	678	679	680	681	682	683	684	685	686	687	688	689	690	691	692	693	694	695	696	697	698	699	700	701	702	703	704	705	706	707	708	709	710	711	712	713	714	715	716	717	718	719	720	721	722	723	724	725	726	727	728	729	730	731	732	733	734	735	736	737	738	739	740	741	742	743	744	745	746	747	748	749	750	751	752	753	754	755	756	757	758	759	760	761	762	763	764	765	766	767	768	769	770	771	772	773	774	775	776	777	778	779	780	781	782	783	784	785	786	787	788	789	790	791	792	793	794	795	796	797	798	799	800	801	802	803	804	805	806	807	808	809	810	811	812	813	814	815	816	817	818	819	820	821	822	823	824	825	826	827	828	829	830	831	832	833	834	835	836	837	838	839	840	841	842	843	844	845	846	847	848	849	850	851	852	853	854	855	856	857	858	859	860	861	862	863	864	865	866	867	868	869	870	871	872	873	874	875	876	877	878	879	880	881	882	883	884	885	886	887	888	889	890	891	892	893	894	895	896	897	898	899	900	901	902	903	904	905	906	907	908	909	910	911	912	913	914	915	916	917	918	919	920	921	922	923	924	925	926	927	928	929	930	931	932	933	934	935	936	937	938	939	940	941	942	943	944	945	946	947	948	949	950	951	952	953	954	955	956	957	958	959	960	961	962	963	964	965	966	967	968	969	970	971	972	973	974	975	976	977	978	979	980	981	982	983	984	985	986	987	988	989	990	991	992	993	994	995	996	997	998	999	1000	1001	1002	1003	1004	1005	1006	1007	1008	1009	1010	1011	1012	1013	1014	1015	1016	1017	1018	1019	1020	1021	1022	1023	1024	1025	1026	1027	1028	1029	1030	1031	1032	1033	1034	1035	1036	1037	1038	1039	1040	1041	1042	1043	1044	1045	1046	1047	1048	1049	1050	1051	1052	1053	1054	1055	1056	1057	1058	1059	1060	1061	1062	1063	1064	1065	1066	1067	1068	1069	1070	1071	1072	1073	1074	1075	1076	1077	1078	1079	1080	1081	1082	1083	1084	1085	1086	1087	1088	1089	1090	1091	1092	1093	1094	1095	1096	1097	1098	1099	1100	1101	1102	1103	1104	1105	1106	1107	1108	1109	1110	1111	1112	1113	1114	1115	1116	1117	1118	1119	1120	1121	1122	1123	1124	1125	1126	1127	1128	1129	1130	1131	1132	1133	1134	1135	1136	1137	1138	1139	1140	1141	1142	1143	1144	1145	1146	1147	1148	1149	1150	1151	1152	1153	1154	1155	1156	1157	1158	1159	1160	1161	1162	1163	1164	1165	1166	1167	1168	1169	1170	1171	1172	1173	1174	1175	1176	1177	1178	1179	1180	1181	1182	1183	1184	1185	1186	1187	1188	1189	1190	1191	1192	1193	1194	1195	1196	1197	1198	1199	1200	1201	1202	1203	1204	1205	1206	1207	1208	1209	1210	1211	1212	1213	1214	1215	1216	1217	1218	1219	1220	1221	12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