

Note to Designer:  
 The information presented in this Standard Detail has been prepared in accordance with recognized engineering principles and is for general use. It should not be used for specific application without competent professional examination and verification of its suitability and applicability by a licensed professional engineer. Contents within the inner border line shall not be altered.

NO.	DATE	DESCRIPTION OF REVISIONS
1	2-12	Original Issue
2	5-15	Added 3.4.5' height for existing box extensions only
3		
4		

		INLET WINGS																																							
Span	Height	0° Skew				5° Skew				10° Skew				15° Skew				20° Skew				25° Skew				30° Skew				35° Skew				40° Skew				45° Skew			
		Conc.	C. Y.	Steel	Ibs.	Conc.	C. Y.	Steel	Ibs.	Conc.	C. Y.	Steel	Ibs.	Conc.	C. Y.	Steel	Ibs.	Conc.	C. Y.	Steel	Ibs.	Conc.	C. Y.	Steel	Ibs.	Conc.	C. Y.	Steel	Ibs.	Conc.	C. Y.	Steel	Ibs.	Conc.	C. Y.	Steel	Ibs.	Conc.	C. Y.	Steel	Ibs.
		I Bbl.	Δc	I Bbl.	Δs	I Bbl.	Δc	I Bbl.	Δs	I Bbl.	Δc	I Bbl.	Δs	I Bbl.	Δc	I Bbl.	Δs	I Bbl.	Δc	I Bbl.	Δs	I Bbl.	Δc	I Bbl.	Δs	I Bbl.	Δc	I Bbl.	Δs	I Bbl.	Δc	I Bbl.	Δs	I Bbl.	Δc	I Bbl.	Δs	I Bbl.	Δc	I Bbl.	Δs
6'	3'	4.27	0.86	317	80	4.10	0.87	310	80	4.19	0.88	322	81	4.29	0.89	326	83	4.52	0.92	347	85	4.64	0.95	350	88	4.76	1.00	367	93	4.99	1.05	380	98	5.28	1.13	390	105	5.56	1.22	420	113
	4'	5.75	0.86	425	80	5.55	0.87	405	80	5.64	0.88	405	81	5.75	0.89	419	83	6.01	0.92	445	85	6.28	0.95	462	88	6.43	1.00	474	93	6.61	1.05	480	98	7.03	1.13	509	105	7.54	1.22	546	113
	5'	7.17	0.86	507	80	7.28	0.87	515	80	7.34	0.88	526	81	7.46	0.89	530	83	7.74	0.92	549	85	7.90	0.95	567	88	8.17	1.00	588	93	8.65	1.05	618	98	9.04	1.13	644	105	9.63	1.22	670	113
	6'	9.02	0.86	616	80	9.12	0.87	635	80	9.06	0.88	629	81	9.51	0.89	640	83	9.66	0.92	656	85	9.98	0.95	682	88	10.36	1.00	712	93	10.74	1.05	731	98	11.27	1.13	761	105	12.10	1.22	831	113
	7'	11.14	0.86	847	80	11.06	0.87	821	80	11.15	0.88	837	81	11.46	0.89	812	83	11.95	0.92	845	85	12.31	0.95	874	88	12.72	1.00	907	93	13.18	1.05	944	98	14.01	1.13	991	105	14.77	1.22	1050	113
8'	3'	4.57	1.13	359	105	4.39	1.14	350	106	4.48	1.15	363	107	4.59	1.17	374	109	4.83	1.21	397	112	4.96	1.25	403	116	5.10	1.31	414	121	5.35	1.38	434	128	5.66	1.48	447	137	5.97	1.60	480	149
	4'	6.04	1.13	446	105	5.84	1.14	428	106	5.94	1.15	430	107	6.06	1.17	451	109	6.32	1.21	477	112	6.60	1.25	495	116	6.77	1.31	501	121	6.97	1.38	515	128	7.41	1.48	545	137	7.96	1.60	585	149
	5'	7.46	1.13	532	105	7.57	1.14	540	106	7.64	1.15	551	107	7.77	1.17	559	109	8.05	1.21	582	112	8.23	1.25	596	116	8.51	1.31	616	121	9.01	1.38	654	128	9.43	1.48	681	137	10.05	1.60	708	149
	6'	9.32	1.13	668	105	9.42	1.14	685	106	9.36	1.15	682	107	9.82	1.17	703	109	9.98	1.21	720	112	10.31	1.25	748	116	10.70	1.31	773	121	11.10	1.38	800	128	11.65	1.48	833	137	12.52	1.60	907	149
	7'	11.43	1.13	864	105	11.36	1.14	846	106	11.45	1.15	862	107	11.77	1.17	844	109	12.27	1.21	879	112	12.64	1.25	908	116	13.07	1.31	935	121	13.55	1.38	980	128	14.40	1.48	1028	137	15.19	1.60	1089	149
8'	16.94	1.13	973	105	16.72	1.14	990	106	17.07	1.15	1006	107	17.23	1.17	1021	109	17.87	1.21	1038	112	18.56	1.25	1110	116	18.91	1.31	1131	121	19.80	1.38	1183	128	20.74	1.48	1250	137	22.53	1.60	1354	149	
10'	3'	4.87	1.40	399	130	4.69	1.41	391	131	4.79	1.43	403	132	4.90	1.45	407	135	5.15	1.49	433	139	5.29	1.55	442	144	5.45	1.62	459	150	5.71	1.71	504	188	6.05	1.83	525	201	6.39	1.99	561	217
	4'	6.34	1.40	489	130	6.14	1.41	470	131	6.25	1.43	473	132	6.37	1.45	488	135	6.64	1.49	516	139	6.94	1.55	537	144	7.12	1.62	549	150	7.34	1.71	588	188	7.81	1.83	629	201	8.38	1.99	669	217
	5'	7.76	1.40	576	130	7.87	1.41	584	131	7.95	1.43	597	132	8.08	1.45	598	135	8.38	1.49	622	139	8.57	1.55	640	144	8.86	1.62	658	150	9.38	1.71	727	188	9.82	1.83	767	201	10.47	1.99	795	217
	6'	9.62	1.40	715	130	9.72	1.41	732	131	9.66	1.43	729	132	10.13	1.45	745	135	10.30	1.49	762	139	10.65	1.55	794	144	11.05	1.62	825	150	11.47	1.71	877	188	12.05	1.83	922	201	12.94	1.99	997	217
	7'	11.74	1.40	913	130	11.66	1.41	895	131	11.76	1.43	911	132	12.08	1.45	888	135	12.59	1.49	924	139	12.98	1.55	950	144	13.42	1.62	985	150	13.92	1.71	1060	188	14.80	1.83	1120	201	15.62	1.99	1182	217
8'	17.24	1.40	1024	130	17.03	1.41	1042	131	17.38	1.43	1058	132	17.55	1.45	1067	135	18.21	1.49	1086	139	18.92	1.55	1161	144	19.28	1.62	1188	150	20.19	1.71	1266	188	21.16	1.83	1340	201	22.98	1.99	1445	217	
9'	20.59	1.40	1300	130	20.40	1.41	1272	131	20.49	1.43	1286	132	21.17	1.45	1321	135	21.84	1.49	1373	139	22.60	1.55	1438	144	23.06	1.62	1475	150	24.03	1.71	1536	188	25.38	1.83	1643	201	27.14	1.99	1750	217	
10'	24.30	1.40	1511	130	24.06	1.41	1534	131	24.19	1.43	1531	132	24.58	1.45	1542	135	25.34	1.49	1604	139	26.15	1.55	1753	144	27.15	1.62	1829	150	28.23	1.71	1923	188	29.87	1.83	2083	201	31.78	1.99	2198	217	
12'	8'	17.58	1.69	1053	156	17.35	1.69	1072	157	17.74	1.71	1088	159	17.91	1.74	1093	162	18.59	1.79	1124	196	19.31	1.86	1198	204	19.68	1.95	1224	213	20.62	2.06	1276	265	21.61	2.20	1336	334	23.47	2.38	1455	361
	9'	20.93	1.69	1330	156	20.74	1.69	1295	157	20.84	1.71	1317	159	21.53	1.74	1354	162	22.23	1.79	1412	196	23.00	1.86	1466	204	23.46	1.95	1511	213	24.46	2.06	1547	265	25.84	2.20	1649	334	27.63	2.38	1760	361
	10'	24.64	1.69	1541	156	24.40	1.69	1564	157	24.48	1.71	1554	159	24.94	1.74	1576	162	25.72	1.79	1633	196	26.54	1.86	1790	204	27.56	1.95	1866	213	28.65	2.06	1934	265	30.32	2.20	2090	334	32.27	2.38	2208	361
	11'	28.58	1.69	1932	156	28.48	1.69	1958	157	28.85	1.71	1974	159	29.41	1.74	1994	162	30.48	1.79	2055	196	31.36	1.86	2233	204	32.21	1.95	2316	213	33.89	2.06	2462	265	36.00	2.20	2593	334	38.16	2.38	2817	361
	12'	33.54	1.69	2639	156	33.46	1.69	2613	157	33.88	1.71	2635	159	34.69	1.74	2602	162	35.82	1.79	2709	196	36.80	1.86	2846	204	37.93	1.95	2961	213	39.46	2.06	3124	265	41.77	2.20	3245	334	45.03	2.38	3572	361

		OUTLET WINGS																																							
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		Conc.	C. Y.	Steel	Ibs.	Conc.	C. Y.	Steel	Ibs.	Conc.	C. Y.	Steel	Ibs.	Conc.	C. Y.	Steel	Ibs.	Conc.	C. Y.	Steel	Ibs.	Conc.	C. Y.	Steel	Ibs.	Conc.	C. Y.	Steel	Ibs.	Conc.	C. Y.	Steel	Ibs.	Conc.	C. Y.	Steel	Ibs.	Conc.	C. Y.	Steel	Ibs.
		I Bbl.	Δc	I Bbl.	Δs	I Bbl.	Δc	I Bbl.	Δs	I Bbl.	Δc	I Bbl.	Δs	I Bbl.	Δc	I Bbl.	Δs	I Bbl.	Δc	I Bbl.	Δs	I Bbl.	Δc	I Bbl.	Δs	I Bbl.	Δc	I Bbl.	Δs	I Bbl.	Δc	I Bbl.	Δs	I Bbl.	Δc	I Bbl.	Δs	I Bbl.	Δc	I Bbl.	Δs
6'	3'	5.98	1.55	467	135	5.98	1.56	468	135	6.19	1.58	475	137	6.07	1.61	464	140	6.31	1.65	485	143	6.58	1.71	495	149	6.73	1.79	520	156	7.05	1.90	538	165	7.43	2.03	555	177	7.82	2.20	598	191
	4'	7.72	1.55	574	135	7.71	1.56	574	135	7.96	1.58	592	137	8.00	1.61	600	140	8.28	1.65	619	143	8.56	1.71	630	149	8.74	1.79	651	156	8.96	1.90	658	165	9.53	2.03	696	177	10.21	2.20	751	191
	5'	9.61	1.55	707	135	9.80	1.56	713	135	9.90	1.58	716	137	9.94	1.61	724	140	10.26	1.65	734	143	10.44	1.71	752	149	10.78	1.79	786	156	11.40	1.90	824	165	11.89	2.03	855	177	12.63	2.20	897	191
	6'	11.75	1.55	807	135	11.94	1.56	826	135	12.23	1.58	852	137	12.37	1.61	871	140	12.66	1.65	882	143	12.86	1.71	890	149	13.31	1.79	933	156	13.79	1.90	956	165	14.47	2.03	995	177	15.50			