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TABLE OF FOUNDATION LOADS - 0° SKEW												
Span Average	Drilled Shaft Loads				Pile Load							
					3 Pile				4 Pile			
	DC	LL	Service I (1)	Strength I (2)	DC	LL	Service I (1)	Strength I (2)	DC	LL	Service I (1)	Strength I (2)
Ft	Tons/Shaft	Tons/Shaft	Tons/Shaft	Tons/Shaft	Tons/Pile	Tons/Pile	Tons/Pile	Tons/Pile	Tons/Pile	Tons/Pile	Tons/Pile	Tons/Pile
40	76	28	104	144	29	10	39	54	23	7	30	41
45	83	30	113	156	31	10	41	56	24	8	32	44
50	89	31	120	166	33	11	44	61	26	8	34	47
55	95	33	128	177	35	11	46	63	27	9	36	50
60	101	34	135	186	37	12	49	67	29	9	38	52
65	107	35	142	195	39	12	51	70	30	9	39	53
70	114	37	151	207	41	13	54	74	32	10	42	58
75	120	38	158	217	44	13	57	78	34	10	44	60
80	126	39	165	226	46	13	59	80	35	10	45	61
85	132	40	172	235	48	14	62	85	37	10	47	64
90	139	42	181	247	50	14	64	87	38	11	49	67
95	145	43	188	257	52	15	67	91	40	11	51	69
100	151	44	195	266	54	15	69	94	41	11	52	71
105	157	45	202	275	56	15	71	96	43	12	55	75
110	163	46	209	284	58	16	74	101	44	12	56	76
115	170	47	217	295	60	16	76	103	46	12	58	79
120	176	49	225	306	62	17	79	107	48	13	61	83
125	182	50	232	315	64	17	81	110	49	13	62	84

TABLE OF FOUNDATION LOADS - 15° SKEW												
Span Average	Drilled Shaft Loads				Pile Load							
					3 Pile				4 Pile			
	DC	LL	Service I (1)	Strength I (2)	DC	LL	Service I (1)	Strength I (2)	DC	LL	Service I (1)	Strength I (2)
Ft	Tons/Shaft	Tons/Shaft	Tons/Shaft	Tons/Shaft	Tons/Pile	Tons/Pile	Tons/Pile	Tons/Pile	Tons/Pile	Tons/Pile	Tons/Pile	Tons/Pile
40	77	28	105	145	29	10	39	54	23	7	30	41
45	83	30	113	156	31	10	41	56	24	8	32	44
50	89	31	120	166	33	11	44	61	26	8	34	47
55	95	33	128	177	35	11	46	63	27	9	36	50
60	102	34	136	187	37	12	49	67	29	9	38	52
65	108	35	143	196	39	12	51	70	30	9	39	53
70	114	37	151	207	42	13	55	75	32	10	42	58
75	120	38	158	217	44	13	57	78	34	10	44	60
80	126	39	165	226	46	13	59	80	35	10	45	61
85	133	40	173	236	48	14	62	85	37	10	47	64
90	139	42	181	247	50	14	64	87	38	11	49	67
95	145	43	188	257	52	15	67	91	40	11	51	69
100	151	44	195	266	54	15	69	94	41	11	52	71
105	158	45	203	276	56	15	71	96	43	12	55	75
110	164	46	210	286	58	16	74	101	44	12	56	76
115	170	47	217	295	60	16	76	103	46	12	58	79
120	176	49	225	306	62	17	79	107	48	13	61	83
125	182	50	232	315	64	17	81	110	49	13	62	84

TABLE OF FOUNDATION LOADS - 30° SKEW												
Span Average	Drilled Shaft Loads				Pile Load							
					3 Pile				4 Pile			
	DC	LL	Service I (1)	Strength I (2)	DC	LL	Service I (1)	Strength I (2)	DC	LL	Service I (1)	Strength I (2)
Ft	Tons/Shaft	Tons/Shaft	Tons/Shaft	Tons/Shaft	Tons/Pile	Tons/Pile	Tons/Pile	Tons/Pile	Tons/Pile	Tons/Pile	Tons/Pile	Tons/Pile
40	78	28	106	147	30	10	40	55	23	7	30	41
45	84	30	114	158	32	10	42	58	25	8	33	45
50	90	31	121	167	34	11	45	62	26	8	34	47
55	97	33	130	179	36	11	47	64	28	9	37	51
60	103	34	137	188	38	12	50	69	29	9	38	52
65	109	35	144	198	40	12	52	71	31	9	40	55
70	115	37	152	209	42	13	55	75	32	10	42	58
75	121	38	159	218	44	13	57	78	34	10	44	60
80	128	39	167	228	46	13	59	80	35	10	45	61
85	134	40	174	238	48	14	62	85	37	10	47	64
90	140	42	182	249	50	14	64	87	39	11	50	68
95	146	43	189	258	52	15	67	91	40	11	51	69
100	153	44	197	268	54	15	69	94	42	11	53	72
105	159	45	204	278	56	15	71	96	43	12	55	75
110	165	46	211	287	59	16	75	102	45	12	57	77
115	171	47	218	296	61	16	77	104	46	12	58	79
120	177	49	226	307	63	17	80	109	48	13	61	83
125	184	50	234	318	65	17	82	111	49	13	62	84

TABLE OF FOUNDATION LOADS - 45° SKEW												
Span Average	Drilled Shaft Loads				Pile Load							
					3 Pile				4 Pile			
	DC	LL	Service I (1)	Strength I (2)	DC	LL	Service I (1)	Strength I (2)	DC	LL	Service I (1)	Strength I (2)
Ft	Tons/Shaft	Tons/Shaft	Tons/Shaft	Tons/Shaft	Tons/Pile	Tons/Pile	Tons/Pile	Tons/Pile	Tons/Pile	Tons/Pile	Tons/Pile	Tons/Pile
40	80	28	108	149	30	10	40	55	24	7	31	42
45	86	30	116	160	32	10	42	58	25	8	33	45
50	92	31	123	169	34	11	45	62	27	8	35	48
55	99	33	132	182	36	11	47	64	28	9	37	51
60	105	34	139	191	39	12	51	70	30	9	39	53
65	111	35	146	200	41	12	53	72	31	9	40	55
70	117	37	154	211	43	13	56	77	33	10	43	59
75	124	38	162	222	45	13	58	79	34	10	44	60
80	130	39	169	231	47	13	60	82	36	10	46	63
85	136	40	176	240	49	14	63	86	38	10	48	65
90	142	42	184	251	51	14	65	88	39	11	50	68
95	148	43	191	260	53	15	68	93	41	11	52	71
100	155	44	199	271	55	15	70	95	42	11	53	72
105	161	45	206	280	57	15	72	98	44	12	56	76
110	167	46	213	289	59	16	75	102	45	12	57	77
115	173	47	220	299	61	16	77	104	47	12	59	80
120	180	49	229	311	63	17	80	109	48	13	61	83
125	186	50	236	320	65	17	82	111	50	13	63	85

- ① 1.00DC + 1.00LL (all other loads not included)
- ② 1.25DC + 1.75LL (all other loads not included)

GENERAL NOTES:
 Designed according to AASHTO LRFD Bridge Design Specifications.
 Foundation loads based on "H" = 36 ft.

FOR DESIGNER'S INFORMATION ONLY.
 Loads included here within are to be added to the Foundation Notes sheet.

The values shown on these sheets are applicable for use only with the I-girder bents shown on the standards BIG-24, BIG-24-15, BIG-24-30, and BIG-24-45.

NOT A STANDARD / NOT FOR INCLUSION IN THE PLANS.

HL93 LOADING



BENT FOUNDATION LOADS
PRESTR CONCRETE I-GIRDERS
TYPE Tx28 - Tx54
24' ROADWAY
IG-BFL24-24

FILE: IG-BFL24-24.dgn	DN: TxDOT	CK: TxDOT	DW: TxDOT	CK: TxDOT
©TxDOT	May 2024	CONTRACT	SECTION	JOB
REVISIONS		COUNTY		SHEET NO.

DATE:
FILE: