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TABLE OF FOUNDATION LOADS - 0° SKEW																
Span Average	Drilled Shaft Loads				Pile Load											
					3 Pile Ftg				4 Pile Ftg				5 Pile Ftg			
	DC	LL	Service I (1)	Strength I (2)	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	Tons/Pile	Tons/Pile	Tons/Pile	Tons/Pile
40	85	28	113	155	32	10	42	58	25	7	32	44	21	6	27	37
45	92	30	122	168	34	10	44	60	27	8	35	48	22	6	28	38
50	99	31	130	178	37	11	48	66	28	8	36	49	24	7	31	42
55	106	33	139	190	39	11	50	68	30	9	39	53	25	7	32	44
60	113	34	147	201	41	12	53	72	32	9	41	56	26	7	33	45
65	121	35	156	213	44	12	56	76	34	9	43	58	28	7	35	47
70	128	37	165	225	46	13	59	80	35	10	45	61	29	8	37	50
75	135	38	173	235	48	13	61	83	37	10	47	64	31	8	39	53
80	142	39	181	246	51	13	64	87	39	10	49	66	32	8	40	54
85	149	40	189	256	53	14	67	91	41	10	51	69	33	8	41	55
90	156	42	198	269	55	14	69	93	42	11	53	72	35	9	44	60
95	163	43	206	279	58	15	73	99	44	11	55	74	36	9	45	61
100	170	44	214	290	60	15	75	101	46	11	57	77	38	9	47	63
105	177	45	222	300	62	15	77	104	48	12	60	81	39	9	48	65
110	184	46	230	311	65	16	81	109	49	12	61	82	40	10	50	68
115	191	47	238	321	67	16	83	112	51	12	63	85	42	10	52	70
120	198	49	247	333	70	17	87	117	53	13	66	89	43	10	53	71

TABLE OF FOUNDATION LOADS - 30° SKEW																
Span Average	Drilled Shaft Loads				Pile Load											
					3 Pile Ftg				4 Pile Ftg				5 Pile Ftg			
	DC	LL	Service I (1)	Strength I (2)	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	Tons/Pile	Tons/Pile	Tons/Pile	Tons/Pile
40	87	28	115	158	33	10	43	59	25	7	32	44	21	6	27	37
45	94	30	124	170	35	10	45	61	27	8	35	48	22	6	28	38
50	101	31	132	181	37	11	48	66	29	8	37	50	24	7	31	42
55	108	33	141	193	40	11	51	69	31	9	40	55	25	7	32	44
60	115	34	149	203	42	12	54	74	32	9	41	56	27	7	34	46
65	122	35	157	214	44	12	56	76	34	9	43	58	28	7	35	47
70	129	37	166	226	47	13	60	82	36	10	46	63	30	8	38	52
75	136	38	174	237	49	13	62	84	38	10	48	65	31	8	39	53
80	143	39	182	247	51	13	64	87	39	10	49	66	32	8	40	54
85	150	40	190	258	54	14	68	92	41	10	51	69	34	8	42	57
90	158	42	200	271	56	14	70	95	43	11	54	73	35	9	44	60
95	165	43	208	282	58	15	73	99	45	11	56	76	37	9	46	62
100	172	44	216	292	61	15	76	103	46	11	57	77	38	9	47	63
105	179	45	224	303	63	15	78	105	48	12	60	81	39	9	48	65
110	186	46	232	313	65	16	81	109	50	12	62	84	41	10	51	69
115	193	47	240	324	68	16	84	113	52	12	64	86	42	10	52	70
120	200	49	249	336	70	17	87	117	53	13	66	89	44	10	54	73

TABLE OF FOUNDATION LOADS - 15° SKEW																
Span Average	Drilled Shaft Loads				Pile Load											
					3 Pile Ftg				4 Pile Ftg				5 Pile Ftg			
	DC	LL	Service I (1)	Strength I (2)	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	Tons/Pile	Tons/Pile	Tons/Pile	Tons/Pile
40	86	28	114	157	32	10	42	58	25	7	32	44	21	6	27	37
45	93	30	123	169	34	10	44	60	27	8	35	48	22	6	28	38
50	100	31	131	179	37	11	48	66	29	8	37	50	24	7	31	42
55	107	33	140	192	39	11	50	68	30	9	39	53	25	7	32	44
60	114	34	148	202	42	12	54	74	32	9	41	56	26	7	33	45
65	121	35	156	213	44	12	56	76	34	9	43	58	28	7	35	47
70	128	37	165	225	46	13	59	80	36	10	46	63	29	8	37	50
75	135	38	173	235	49	13	62	84	37	10	47	64	31	8	39	53
80	142	39	181	246	51	13	64	87	39	10	49	66	32	8	40	54
85	149	40	189	256	53	14	67	91	41	10	51	69	33	8	41	55
90	156	42	198	269	56	14	70	95	43	11	54	73	35	9	44	60
95	163	43	206	279	58	15	73	99	44	11	55	74	36	9	45	61
100	170	44	214	290	60	15	75	101	46	11	57	77	38	9	47	63
105	177	45	222	300	63	15	78	105	48	12	60	81	39	9	48	65
110	184	46	230	311	65	16	81	109	50	12	62	84	41	10	51	69
115	191	47	238	321	67	16	83	112	51	12	63	85	42	10	52	70
120	198	49	247	333	70	17	87	117	53	13	66	89	43	10	53	71

TABLE OF FOUNDATION LOADS - 45° SKEW																
Span Average	Drilled Shaft Loads				Pile Load											
					3 Pile Ftg				4 Pile Ftg				5 Pile Ftg			
	DC	LL	Service I (1)	Strength I (2)	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	Tons/Pile	Tons/Pile	Tons/Pile	Tons/Pile
40	90	28	118	162	34	10	44	60	26	7	33	45	22	6	28	38
45	97	30	127	174	36	10	46	63	28	8	36	49	23	6	29	39
50	104	31	135	184	38	11	49	67	30	8	38	52	24	7	31	42
55	111	33	144	197	41	11	52	71	31	9	40	55	26	7	33	45
60	118	34	152	207	43	12	55	75	33	9	42	57	27	7	34	46
65	125	35	160	218	45	12	57	77	35	9	44	60	29	7	36	49
70	132	37	169	230	48	13	61	83	37	10	47	64	30	8	38	52
75	139	38	177	240	50	13	63	85	38	10	48	65	31	8	39	53
80	146	39	185	251	52	13	65	88	40	10	50	68	33	8	41	55
85	153	40	193	261	55	14	69	93	42	10	52	70	34	8	42	57
90	160	42	202	274	57	14	71	96	44	11	55	74	36	9	45	61
95	167	43	210	284	59	15	74	100	45	11	56	76	37	9	46	62
100	174	44	218	295	62	15	77	104	47	11	58	78	39	9	48	65
105	181	45	226	305	64	15	79	106	49	12	61	82	40	9	49	66
110	188	46	234	316	66	16	82	111	51	12	63	85	41	10	51	69
115	195	47	242	326	69	16	85	114	52	12	64	86	43	10	53	71
120	202	49	251	338	71	17	88	119	54	13	67	90	44	10	54	73

- 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-32, BIG-32-15, BIG-32-30, and BIG-32-45.

NOT A STANDARD / NOT FOR INCLUSION IN THE PLANS.

HL93 LOADING

Bridge Division Standard

BENT FOUNDATION LOADS
PRESTR CONCRETE I-GIRDERS
TYPE Tx28 - Tx54
32' ROADWAY
IG-BFL32-24

FILE: IG-BFL32-24.dgn	DN: TxDOT	CK: TxDOT	DW: TxDOT	CK: TxDOT
©TxDOT	CONTRACT	SECT	JOB	HIGHWAY
REVISIONS	COUNTY		SHEET NO.	

DATE:
FILE: