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TABLE OF FOUNDATION LOADS - 0° SKEW

Span Length	Drilled Shaft Loads				Pile Loads				
	DC	LL	Service I (1)	Strength I (2)	DC	EH (3)	LL	Service I (1)	Strength I (2)
	Tons/Shaft	Tons/Shaft	Tons/Shaft	Tons/Shaft	Tons/Pile	Tons/Pile	Tons/Pile	Tons/Pile	Tons/Pile
40	42	23	65	93	22	14	20	56	84
45	45	24	69	98	24	14	21	59	88
50	48	25	73	104	25	14	21	60	89
55	51	26	77	109	27	14	22	63	93
60	55	27	82	116	28	14	22	64	95
65	58	28	86	122	30	14	23	67	99
70	61	29	90	127	32	14	23	69	101
75	64	30	94	133	33	14	24	71	104
80	67	30	97	136	35	14	24	73	107
85	70	31	101	142	36	14	24	74	108
90	73	32	105	147	38	14	25	77	112
95	76	32	108	151	40	14	25	79	115
100	79	33	112	157	41	14	25	80	116
105	82	34	116	162	43	14	26	83	120
110	86	34	120	167	44	14	26	84	122
115	89	35	124	173	46	14	26	86	124
120	92	35	127	176	48	14	27	89	128
125	95	36	131	182	49	14	27	90	130

TABLE OF FOUNDATION LOADS - 15° SKEW

Span Length	Drilled Shaft Loads				Pile Loads				
	DC	LL	Service I (1)	Strength I (2)	DC	EH (3)	LL	Service I (1)	Strength I (2)
	Tons/Shaft	Tons/Shaft	Tons/Shaft	Tons/Shaft	Tons/Pile	Tons/Pile	Tons/Pile	Tons/Pile	Tons/Pile
40	42	23	65	93	22	14	21	57	85
45	46	24	70	100	24	14	21	59	88
50	49	25	74	105	25	14	22	61	91
55	52	26	78	111	27	14	22	63	93
60	55	27	82	116	28	14	23	65	96
65	58	28	86	122	30	14	23	67	99
70	61	29	90	127	32	14	23	69	101
75	64	30	94	133	33	14	24	71	104
80	67	30	97	136	35	14	24	73	107
85	70	31	101	142	36	14	25	75	110
90	73	32	105	147	38	14	25	77	112
95	77	32	109	152	40	14	25	79	115
100	80	33	113	158	41	14	26	81	118
105	83	34	117	163	43	14	26	83	120
110	86	34	120	167	44	14	26	84	122
115	89	35	124	173	46	14	27	87	126
120	92	35	127	176	48	14	27	89	128
125	95	36	131	182	49	14	27	90	130

TABLE OF FOUNDATION LOADS - 30° SKEW

Span Length	Drilled Shaft Loads				Pile Loads				
	DC	LL	Service I (1)	Strength I (2)	DC	EH (3)	LL	Service I (1)	Strength I (2)
	Tons/Shaft	Tons/Shaft	Tons/Shaft	Tons/Shaft	Tons/Pile	Tons/Pile	Tons/Pile	Tons/Pile	Tons/Pile
40	43	23	66	94	23	15	21	59	88
45	46	24	70	100	24	15	22	61	91
50	50	25	75	106	26	15	22	63	94
55	53	26	79	112	27	15	23	65	97
60	56	27	83	117	29	15	23	67	99
65	59	28	87	123	31	15	24	70	103
70	62	29	91	128	32	15	24	71	105
75	65	30	95	134	34	15	24	73	107
80	68	30	98	138	35	15	25	75	110
85	71	31	102	143	37	15	25	77	113
90	74	32	106	149	39	15	26	80	117
95	78	32	110	154	40	15	26	81	118
100	81	33	114	159	42	15	26	83	121
105	84	34	118	165	43	15	27	85	124
110	87	34	121	168	45	15	27	87	126
115	90	35	125	174	47	15	27	89	129
120	93	35	128	178	48	15	28	91	132
125	96	36	132	183	50	15	28	93	134

TABLE OF FOUNDATION LOADS - 45° SKEW

Span Length	Drilled Shaft Loads				Pile Loads				
	DC	LL	Service I (1)	Strength I (2)	DC	EH (3)	LL	Service I (1)	Strength I (2)
	Tons/Shaft	Tons/Shaft	Tons/Shaft	Tons/Shaft	Tons/Pile	Tons/Pile	Tons/Pile	Tons/Pile	Tons/Pile
40	34	17	51	72	18	13	17	48	72
45	37	18	55	78	19	13	17	49	73
50	39	19	58	82	20	13	18	51	76
55	41	20	61	86	21	13	18	52	77
60	44	20	64	90	23	13	18	54	80
65	46	21	67	94	24	13	19	56	83
70	48	22	70	99	25	13	19	57	84
75	51	22	73	102	26	13	19	58	85
80	53	23	76	107	27	13	20	60	88
85	55	23	78	109	29	13	20	62	91
90	57	24	81	113	30	13	20	63	92
95	60	24	84	117	31	13	20	64	93
100	62	25	87	121	32	13	21	66	96
105	64	25	89	124	33	13	21	67	98
110	67	26	93	129	35	13	21	69	100
115	69	26	95	132	36	13	21	70	101
120	71	27	98	136	37	13	22	72	104
125	74	27	101	140	38	13	22	73	106

- ① 1.00DC + 1.00EH + 1.00LL (all other loads not included)
- ② 1.25DC + 1.50EH + 1.75LL (all other loads not included)
- ③ Axial load due to the soil pressure acting on the backwall, which is generated due to the pile batter.


GENERAL NOTES:
Designed according to AASHTO LRFD Bridge Design Specifications.

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 abutments shown on the standards AIG-24, AIG-24-15, AIG-24-30 and AIG-24-45.

NOT A STANDARD / NOT FOR INCLUSION IN THE PLANS.

HL93 LOADING

		Bridge Division Standard	
<p>ABUTMENT FOUNDATION LOADS PRESTR CONCRETE I-GIRDERS TYPE Tx28 - Tx54 24' ROADWAY IG-AFL24-24</p>			
FILE: IG-AFL24-24.dgn	DN: TxDOT	CK: TxDOT	DW: TxDOT
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REVISIONS	COUNTY		SHEET NO.