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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	35	17	52	74	18	12	16	46	69
45	38	18	56	79	20	12	17	49	73
50	40	19	59	83	21	12	17	50	74
55	43	20	63	89	22	12	18	52	77
60	45	20	65	91	24	12	18	54	80
65	48	21	69	97	25	12	18	55	81
70	51	22	73	102	26	12	19	57	84
75	53	22	75	105	28	12	19	59	86
80	56	23	79	110	29	12	19	60	88
85	58	23	81	113	30	12	19	61	89
90	61	24	85	118	32	12	20	64	93
95	63	24	87	121	33	12	20	65	94
100	66	25	91	126	34	12	20	66	96
105	68	25	93	129	35	12	20	67	97
110	71	26	97	134	37	12	21	70	101
115	74	26	100	138	38	12	21	71	102
120	76	27	103	142	39	12	21	72	104

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	35	17	52	74	19	12	17	48	72
45	38	18	56	79	20	12	17	49	73
50	41	19	60	85	21	12	18	51	76
55	43	20	63	89	22	12	18	52	77
60	46	20	66	93	24	12	18	54	80
65	48	21	69	97	25	12	19	56	83
70	51	22	73	102	26	12	19	57	84
75	53	22	75	105	28	12	19	59	86
80	56	23	79	110	29	12	19	60	88
85	59	23	82	114	30	12	20	62	91
90	61	24	85	118	32	12	20	64	93
95	64	24	88	122	33	12	20	65	94
100	66	25	91	126	34	12	20	66	96
105	69	25	94	130	36	12	21	69	100
110	71	26	97	134	37	12	21	70	101
115	74	26	100	138	38	12	21	71	102
120	76	27	103	142	40	12	21	73	105

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	36	17	53	75	19	14	17	50	75
45	39	18	57	80	20	14	18	52	78
50	41	19	60	85	22	14	18	54	80
55	44	20	64	90	23	14	19	56	83
60	47	20	67	94	24	14	19	57	84
65	49	21	70	98	26	14	19	59	87
70	52	22	74	104	27	14	20	61	90
75	54	22	76	106	28	14	20	62	91
80	57	23	80	112	30	14	20	64	94
85	59	23	82	114	31	14	20	65	95
90	62	24	86	120	32	14	21	67	98
95	65	24	89	123	33	14	21	68	99
100	67	25	92	128	35	14	21	70	102
105	70	25	95	131	36	14	21	71	103
110	72	26	98	136	37	14	22	73	106
115	75	26	101	139	39	14	22	75	108
120	77	27	104	144	40	14	22	76	110

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	31	14	45	63	16	13	15	44	66
45	33	15	48	68	17	13	16	46	69
50	35	15	50	70	18	13	16	47	70
55	37	16	53	74	19	13	16	48	71
60	39	16	55	77	20	13	16	49	73
65	41	17	58	81	21	13	17	51	76
70	43	17	60	84	22	13	17	52	77
75	45	18	63	88	23	13	17	53	78
80	47	18	65	90	25	13	17	55	81
85	49	19	68	95	26	13	18	57	84
90	51	19	70	97	27	13	18	58	85
95	53	20	73	101	28	13	18	59	86
100	55	20	75	104	29	13	18	60	87
105	57	20	77	106	30	13	18	61	89
110	59	21	80	111	31	13	19	63	92
115	62	21	83	114	32	13	19	64	93
120	64	21	85	117	33	13	19	65	94

- 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-30, AIG-30-15, AIG-30-30, and AIG-30-45.

NOT A STANDARD / NOT FOR INCLUSION IN THE PLANS.

HL93 LOADING

				Bridge Division Standard	
ABUTMENT FOUNDATION LOADS PRESTR CONCRETE I-GIRDERS TYPE Tx28 - Tx54 30' ROADWAY IG-AFL30-24					
FILE: IG-AFL30-24.dgn	DN: TxDOT	CK: TxDOT	DW: TxDOT	CK: TxDOT	
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REVISIONS		DIST	COUNTY	SHEET NO.	