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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	45	23	68	97	24	16	22	62	93
45	48	24	72	102	25	16	23	64	96
50	52	25	77	109	27	16	23	66	98
55	55	26	81	114	29	16	24	69	102
60	58	27	85	120	30	16	24	70	104
65	62	28	90	127	32	16	25	73	108
70	65	29	94	132	34	16	25	75	110
75	68	30	98	138	35	16	25	76	112
80	72	30	102	143	37	16	26	79	116
85	75	31	106	148	39	16	26	81	118
90	78	32	110	154	41	16	26	83	121
95	82	32	114	159	42	16	27	85	124
100	85	33	118	164	44	16	27	87	126
105	88	34	122	170	46	16	27	89	129
110	92	34	126	175	47	16	28	91	132
115	95	35	130	180	49	16	28	93	134
120	98	35	133	184	51	16	28	95	137
125	101	36	137	189	53	16	29	98	141

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	34	17	51	72	18	11	16	45	67
45	37	18	55	78	19	11	16	46	68
50	39	19	58	82	20	11	17	48	71
55	42	20	62	88	22	11	17	50	74
60	44	20	64	90	23	11	18	52	77
65	47	21	68	96	24	11	18	53	78
70	49	22	71	100	26	11	18	55	81
75	52	22	74	104	27	11	18	56	82
80	54	23	77	108	28	11	19	58	85
85	57	23	80	112	29	11	19	59	86
90	59	24	83	116	31	11	19	61	89
95	62	24	86	120	32	11	20	63	92
100	64	25	89	124	33	11	20	64	93
105	67	25	92	128	35	11	20	66	95
110	69	26	95	132	36	11	20	67	97
115	72	26	98	136	37	11	21	69	100
120	74	27	101	140	38	11	21	70	101
125	77	27	104	144	40	11	21	72	103

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	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	23	12	18	53	78
65	48	21	69	97	25	12	18	55	81
70	50	22	72	101	26	12	19	57	84
75	52	22	74	104	27	12	19	58	85
80	55	23	78	109	29	12	19	60	88
85	57	23	80	112	30	12	19	61	89
90	60	24	84	117	31	12	20	63	92
95	62	24	86	120	32	12	20	64	93
100	65	25	90	125	34	12	20	66	96
105	67	25	92	128	35	12	20	67	97
110	70	26	96	133	36	12	21	69	100
115	72	26	98	136	38	12	21	71	102
120	75	27	102	141	39	12	21	72	104
125	77	27	104	144	40	12	21	73	105

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	37	17	54	76	19	15	19	53	80
45	39	18	57	80	21	15	19	55	82
50	42	19	61	86	22	15	19	56	83
55	44	20	64	90	23	15	20	58	86
60	47	20	67	94	24	15	20	59	88
65	49	21	70	98	26	15	20	61	90
70	52	22	74	104	27	15	21	63	93
75	54	22	76	106	28	15	21	64	94
80	57	23	80	112	30	15	21	66	97
85	59	23	82	114	31	15	22	68	100
90	62	24	86	120	32	15	22	69	101
95	64	24	88	122	33	15	22	70	102
100	67	25	92	128	35	15	22	72	105
105	69	25	94	130	36	15	23	74	108
110	72	26	98	136	37	15	23	75	109
115	74	26	100	138	38	15	23	76	110
120	77	27	104	144	40	15	23	78	113
125	79	27	106	146	41	15	23	79	114

- 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-28, AIG-28-15, AIG-28-30, and AIG-28-45.

NOT A STANDARD / NOT FOR INCLUSION IN THE PLANS.

HL93 LOADING



**ABUTMENT FOUNDATION LOADS
PRESTR CONCRETE I-GIRDERS
TYPE Tx28 - Tx54
28' ROADWAY
IG-AFL28-24**

FILE: IG-AFL28-24.dgn	DN: TxDOT	CK: TxDOT	DW: TxDOT	CK: TxDOT
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REVISIONS	DIST	COUNTY	SHEET NO.	