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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	36	17	53	75	19	13	17	49	73
45	39	18	57	80	20	13	17	50	74
50	42	19	61	86	22	13	18	53	79
55	44	20	64	90	23	13	18	54	80
60	47	20	67	94	24	13	18	55	81
65	50	21	71	99	26	13	19	58	85
70	52	22	74	104	27	13	19	59	87
75	55	22	77	107	28	13	19	60	88
80	57	23	80	112	30	13	20	63	92
85	60	23	83	115	31	13	20	64	93
90	63	24	87	121	33	13	20	66	96
95	65	24	89	123	34	13	20	67	97
100	68	25	93	129	35	13	21	69	100
105	71	25	96	133	37	13	21	71	103
110	73	26	99	137	38	13	21	72	104
115	76	26	102	141	39	13	21	73	105
120	79	27	106	146	41	13	22	76	109

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	37	17	54	76	19	14	17	50	75
45	39	18	57	80	20	14	18	52	78
50	42	19	61	86	22	14	18	54	80
55	45	20	65	91	23	14	19	56	83
60	47	20	67	94	25	14	19	58	86
65	50	21	71	99	26	14	19	59	87
70	52	22	74	104	27	14	20	61	90
75	55	22	77	107	29	14	20	63	92
80	58	23	81	113	30	14	20	64	94
85	60	23	83	115	31	14	20	65	95
90	63	24	87	121	33	14	21	68	99
95	66	24	90	125	34	14	21	69	100
100	68	25	93	129	35	14	21	70	102
105	71	25	96	133	37	14	21	72	104
110	74	26	100	138	38	14	22	74	107
115	76	26	102	141	39	14	22	75	108
120	79	27	106	146	41	14	22	77	111

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	38	17	55	77	20	15	18	53	79
45	40	18	58	82	21	15	19	55	82
50	43	19	62	87	22	15	19	56	83
55	46	20	66	93	24	15	19	58	86
60	48	20	68	95	25	15	20	60	89
65	51	21	72	101	26	15	20	61	90
70	53	22	75	105	28	15	20	63	93
75	56	22	78	109	29	15	21	65	96
80	59	23	82	114	30	15	21	66	97
85	61	23	84	117	32	15	21	68	99
90	64	24	88	122	33	15	21	69	101
95	67	24	91	126	35	15	22	72	105
100	69	25	94	130	36	15	22	73	106
105	72	25	97	134	37	15	22	74	107
110	75	26	101	139	39	15	22	76	110
115	77	26	103	142	40	15	23	78	113
120	80	27	107	147	41	15	23	79	114

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	32	14	46	65	17	14	16	47	70
45	34	15	49	69	18	14	16	48	72
50	36	15	51	71	19	14	16	49	73
55	38	16	54	76	20	14	17	51	76
60	40	16	56	78	21	14	17	52	77
65	42	17	59	82	22	14	17	53	78
70	45	17	62	86	23	14	17	54	80
75	47	18	65	90	24	14	18	56	83
80	49	18	67	93	25	14	18	57	84
85	51	19	70	97	26	14	18	58	85
90	53	19	72	100	28	14	18	60	88
95	55	20	75	104	29	14	18	61	89
100	57	20	77	106	30	14	19	63	92
105	59	20	79	109	31	14	19	64	93
110	61	21	82	113	32	14	19	65	94
115	64	21	85	117	33	14	19	66	96
120	66	21	87	119	34	14	19	67	97

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

NOT A STANDARD / NOT FOR INCLUSION IN THE PLANS.

HL93 LOADING

				Bridge Division Standard	
ABUTMENT FOUNDATION LOADS PRESTR CONCRETE I-GIRDERS TYPE Tx28 - Tx54 32' ROADWAY IG-AFL32-24					
FILE: IG-AFL32-24.dgn	DN: TxDOT	CK: TxDOT	DW: TxDOT	CK: TxDOT	
©TxDOT	May 2024	CONT	SECT	JOB	HIGHWAY
REVISIONS		DIST	COUNTY	SHEET NO.	