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DATE: FILE:

**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	39	17	56	79	21	9	16	46	68
45	43	18	61	85	22	9	16	47	69
50	46	19	65	91	24	9	17	50	73
55	49	20	69	96	25	9	17	51	75
60	52	20	72	100	27	9	18	54	79
65	55	21	76	106	29	9	18	56	81
70	58	22	80	111	30	9	18	57	83
75	62	22	84	116	32	9	18	59	85
80	65	23	88	122	34	9	19	62	89
85	68	23	91	125	35	9	19	63	91
90	71	24	95	131	37	9	19	65	93
95	74	24	98	135	39	9	19	67	96
100	78	25	103	141	40	9	20	69	99
105	81	25	106	145	42	9	20	71	101

**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 (L)	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	40	17	57	80	21	10	16	47	69
45	43	18	61	85	22	10	17	49	72
50	46	19	65	91	24	10	17	51	75
55	49	20	69	96	26	10	17	53	77
60	52	20	72	100	27	10	18	55	80
65	56	21	77	107	29	10	18	57	83
70	59	22	81	112	31	10	18	59	85
75	62	22	84	116	32	10	19	61	88
80	65	23	88	122	34	10	19	63	91
85	68	23	91	125	35	10	19	64	92
90	72	24	96	132	37	10	19	66	95
95	75	24	99	136	39	10	20	69	99
100	78	25	103	141	40	10	20	70	100
105	81	25	106	145	42	10	20	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	41	17	58	81	21	11	17	49	73
45	44	18	62	87	23	11	17	51	75
50	47	19	66	92	24	11	18	53	78
55	50	20	70	98	26	11	18	55	81
60	53	20	73	101	28	11	18	57	83
65	56	21	77	107	29	11	19	59	86
70	60	22	82	114	31	11	19	61	89
75	63	22	85	117	33	11	19	63	91
80	66	23	89	123	34	11	19	64	92
85	69	23	92	127	36	11	20	67	97
90	72	24	96	132	38	11	20	69	99
95	76	24	100	137	39	11	20	70	100
100	79	25	104	143	41	11	21	73	105
105	82	25	107	146	42	11	21	74	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 prestressed X-beam abutments shown on the standards AXB-32, AXB-32-15, and AXB-32-30.

NOT A STANDARD / NOT FOR INCLUSION IN THE PLANS.

**HL93 LOADING**

Texas Department of Transportation				Bridge Division Standard	
<p><b>ABUTMENT FOUNDATION LOADS</b></p> <p><b>PRESTRESSED CONCRETE X-BEAMS</b></p> <p><b>32' ROADWAY</b></p> <p><b>XB-AFL32-24</b></p>					
FILE: XB-AFL32-24.dgn		DN: TxDOT	CK: TxDOT	DW: TxDOT	CK: TxDOT
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REVISIONS		DIST		COUNTY	SHEET NO.