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DATE:
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TABLE OF FOUNDATION LOADS									
30' Roadway - 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)
Ft	Tons/Shaft	Tons/Shaft	Tons/Shaft	Tons/Shaft	Tons/Pile	Tons/Pile	Tons/Pile	Tons/Pile	Tons/Pile
30	30	20	50	73	16	14	23	53	82
35	32	22	54	79	17	14	24	55	85
40	34	23	57	83	18	14	25	57	88
45	37	24	61	89	19	14	25	58	89
50	39	25	64	93	20	14	26	60	92
55	41	26	67	97	22	14	26	62	94
60	44	27	71	103	23	14	27	64	97
65	46	28	74	107	24	14	27	65	99
70	48	29	77	111	25	14	28	67	102
75	51	30	81	117	26	14	28	68	103
80	53	30	83	119	28	14	28	70	105
85	56	31	87	125	29	14	29	72	108
90	60	32	92	131	31	14	29	74	111
95	63	32	95	135	33	14	29	76	113
100	66	33	99	141	34	14	30	78	116
105	69	34	103	146	36	14	30	80	119
110	73	34	107	151	38	14	30	82	121
115	76	35	111	157	40	14	31	85	126
120	80	35	115	162	42	14	31	87	128

TABLE OF FOUNDATION LOADS									
30' Roadway - 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)
Ft	Tons/Shaft	Tons/Shaft	Tons/Shaft	Tons/Shaft	Tons/Pile	Tons/Pile	Tons/Pile	Tons/Pile	Tons/Pile
30	30	20	50	73	16	14	23	53	82
35	32	22	54	79	17	14	24	55	85
40	35	23	58	84	18	14	25	57	88
45	37	24	61	89	19	14	25	58	89
50	39	25	64	93	20	14	26	60	92
55	42	26	68	98	22	14	26	62	94
60	44	27	71	103	23	14	27	64	97
65	46	28	74	107	24	14	27	65	99
70	48	29	77	111	25	14	28	67	102
75	51	30	81	117	26	14	28	68	103
80	54	30	84	120	28	14	28	70	105
85	57	31	88	126	29	14	29	72	108
90	60	32	92	131	31	14	29	74	111
95	63	32	95	135	33	14	29	76	113
100	67	33	100	142	35	14	30	79	118
105	69	34	103	146	36	14	30	80	119
110	73	34	107	151	38	14	30	82	121
115	77	35	112	158	40	14	31	85	126
120	81	35	116	163	42	14	31	87	128

TABLE OF FOUNDATION LOADS									
30' Roadway - 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)
Ft	Tons/Shaft	Tons/Shaft	Tons/Shaft	Tons/Shaft	Tons/Pile	Tons/Pile	Tons/Pile	Tons/Pile	Tons/Pile
30	31	20	51	74	16	14	23	53	82
35	33	22	55	80	17	14	24	55	85
40	36	23	59	86	19	14	25	58	89
45	38	24	62	90	20	14	25	59	90
50	40	25	65	94	21	14	26	61	93
55	43	26	69	100	22	14	26	62	94
60	45	27	72	104	23	14	27	64	97
65	47	28	75	108	25	14	27	66	100
70	49	29	78	112	26	14	28	68	103
75	52	30	82	118	27	14	28	69	104
80	55	30	85	122	28	14	28	70	105
85	58	31	89	127	30	14	29	73	110
90	61	32	93	133	32	14	29	75	112
95	64	32	96	136	33	14	29	76	113
100	68	33	101	143	35	14	30	79	118
105	70	34	104	147	37	14	30	81	120
110	74	34	108	152	38	14	30	82	121
115	78	35	113	159	40	14	31	85	126
120	82	35	117	164	42	14	31	87	128

- 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 steel beam abutments shown on the standards ASB-30, ASB-30-15, and ASB-30-30.

NOT A STANDARD / NOT FOR INCLUSION IN THE PLANS.

HL93 LOADING				Texas Department of Transportation	Bridge Division Standard
ABUTMENT FOUNDATION LOADS					
STEEL BEAMS					
30' ROADWAY					
SB-AFL30-24					
FILE: SB-AFL30-24.dgn	DN: TxDOT	CK: TxDOT	DW: TxDOT	CR: TxDOT	
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REVISIONS					
	DIST	COUNTY			SHEET NO.