

SPAN (ft)	DESIGN WIND HEIGHT TO $\phi$ TRUSS (ft)	MAXIMUM DRILLED SHAFT AXIAL LOAD (kips)	MAXIMUM DRILLED SHAFT MOMENT (k-ft)	DRILLED SHAFT DIAMETER (In)	DRILLED SHAFT EMBEDMENT LENGTH (ft)			
					AVERAGE N (BLOWS/12")			
					10	20	30	40
40	15	68	51	36	24	13	10	9
	20	85	83	36	29	16	12	10
	25	104	122	36	34	19	13	13
	30	123	171	36	40	22	15	15
	35	144	228	36	47	25	18	18
	40	165	294	36	53	28	20	20
	45	188	369	36	60	32	23	23
50	212	454	36	67	35	25	25	
50	15	74	51	36	25	14	10	9
	20	93	83	36	31	17	12	10
	25	113	122	36	37	20	14	13
	30	134	171	36	44	23	17	15
	35	157	228	36	51	27	19	18
	40	181	294	36	58	30	21	20
	45	206	369	36	65	34	24	23
50	232	454	36	73	38	26	25	
60	15	79	51	36	27	15	11	9
	20	100	83	36	33	18	13	11
	25	122	122	36	40	21	15	13
	30	145	171	36	47	25	18	15
	35	169	228	36	54	29	20	18
	40	195	294	36	62	33	23	20
	45	222	369	36	70	37	25	23
50	233	454	42	64	33	25	25	
70	15	84	51	36	29	16	12	9
	20	107	83	36	35	19	14	11
	25	130	122	36	43	23	16	13
	30	155	171	36	50	27	19	15
	35	181	228	36	58	31	21	18
	40	209	294	36	66	35	24	20
	45	238	369	36	75	39	27	23
50	248	454	42	68	35	25	25	
80	15	90	51	36	30	17	12	10
	20	114	83	36	38	20	15	12
	25	139	122	36	45	24	17	14
	30	166	171	36	53	28	20	16
	35	194	228	36	62	32	23	18
	40	223	294	36	71	37	26	20
	45	235	369	42	64	34	23	23
50	264	454	42	72	37	26	25	
90	15	95	51	36	32	17	13	10
	20	121	83	36	40	21	15	12
	25	148	122	36	48	25	18	14
	30	176	171	36	56	30	21	16
	35	206	228	36	66	34	24	19
	40	237	294	36	75	39	27	21
	45	249	369	42	68	35	25	23
50	279	454	42	76	39	27	25	

SPAN (ft)	DESIGN WIND HEIGHT TO $\phi$ TRUSS (ft)	MAXIMUM DRILLED SHAFT AXIAL LOAD (kips)	MAXIMUM DRILLED SHAFT MOMENT (k-ft)	DRILLED SHAFT DIAMETER (In)	DRILLED SHAFT EMBEDMENT LENGTH (ft)			
					AVERAGE N (BLOWS/12")			
					10	20	30	40
100	15	106	55	36	35	19	14	11
	20	134	89	36	44	23	17	13
	25	165	132	36	53	28	20	15
	30	196	183	36	62	33	23	18
	35	229	244	36	72	38	26	20
	40	244	315	42	66	35	24	20
	45	276	395	42	75	39	27	23
50	289	485	48	69	36	25	25	
110	15	112	55	36	37	20	14	11
	20	142	89	36	46	25	17	14
	25	174	132	36	56	29	21	16
	30	207	183	36	66	34	24	19
	35	242	244	36	76	40	27	21
	40	257	315	42	70	36	25	20
	45	290	395	42	78	41	28	23
50	304	485	48	72	38	26	25	
120	15	118	55	36	39	21	15	12
	20	150	89	36	48	26	18	14
	25	184	132	36	59	31	22	17
	30	219	183	36	69	36	25	20
	35	256	244	36	81	42	29	22
	40	270	315	42	73	38	26	21
	45	286	395	48	68	35	25	23
50	319	485	48	75	39	27	25	
130	15	124	55	36	41	22	16	12
	20	158	89	36	51	27	19	15
	25	193	132	36	62	32	23	18
	30	213	183	42	58	31	21	17
	35	248	244	42	67	35	24	19
	40	283	315	42	77	40	28	21
	45	299	395	48	71	37	26	23
50	334	485	48	79	41	28	25	
140	15	133	60	36	43	23	16	13
	20	168	96	36	54	29	20	16
	25	206	141	36	65	34	24	19
	30	227	196	42	62	32	23	18
	35	263	261	42	71	37	26	20
	40	282	336	48	67	35	24	20
	45	317	421	48	75	39	27	23
50	354	516	48	83	43	30	25	

DESIGNER NOTE:  
THIS SHEET IS FOR DESIGNER'S USE  
IN DETERMINING DRILLED SHAFT DIAMETER,  
LOADS AND EMBEDMENT. DO NOT INSERT  
INTO PLANSET.

Texas Department of Transportation  
Houston District Bridge  
Green Ribbon Project

OVERHEAD SIGN BRIDGE  
FOUNDATION DATA AND  
EMBEDMENT SELECTION  
TABLE  
VERTICAL SCHEME  
OSB-VS

FILE: STDN38.DGN	DW: HOU	CK: HOU	DW: HOU	CK: HOU
© TXDOT AUGUST 2011	DISTRICT	FED REG	PROJECT NO.	SHEET
REVISIONS	HOUSTON	6		
	COUNTY	CONTROL	SECT	JOB
				HIGHWAY

FOUNDATION DATA AND EMBEDMENT LENGTH TABLE