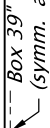
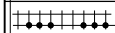
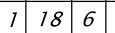
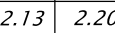
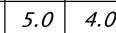
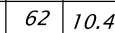
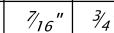
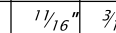
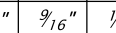
 Box 33" (symm. about ϵ) Straight Strand Pattern for Right Half of Box	Box Number	Number of Strands	Deflected Strands	Distance "de" to c.g. strand at box end	Distance "dm" to c.g. strand at midsapn, in.	Concrete Strength @ 28 Days, ksi	Concrete Strength @ Release, ksi	Estimated Span, ft.	Estimated Initial Strand Stress Loss, ksi	Estimated Midspan Deflection, in.					Estimated Shortening 2 weeks after Release, in.
										Upward at Release	Upward 3 months after Release (No SIDL)	Upward 5 years after Release (No SIDL)	Instantaneous Downward Due to 100 psf	Downward Due to 100 psf	
	1	16	6	11.22	2.24	5.0	4.0	54	10.3	$\frac{3}{8}$ "	$1\frac{1}{16}$ "	$\frac{3}{4}$ "	$\frac{1}{8}$ "	$\frac{1}{2}$ "	$\frac{1}{4}$ "
	2	18	6	10.16	2.20	5.0	4.0	57	11.17	$\frac{1}{2}$ "	$\frac{7}{8}$ "	$1\frac{5}{16}$ "	$\frac{1}{4}$ "	$1\frac{1}{16}$ "	$\frac{1}{4}$ "
	3	20	6	9.33	2.17	5.0	4.0	61	12.18	$\frac{5}{8}$ "	$1\frac{1}{16}$ "	$1\frac{1}{8}$ "	$\frac{5}{16}$ "	$1\frac{3}{16}$ "	$\frac{5}{16}$ "
	4	22	6	8.66	2.13	5.0	4.0	64	13.20	$1\frac{3}{16}$ "	$1\frac{3}{8}$ "	$1\frac{7}{16}$ "	$\frac{3}{8}$ "	1"	$\frac{3}{8}$ "
	5	24	6	7.91	2.24	5.0	4.0	67	13.92	$\frac{7}{8}$ "	$1\frac{9}{16}$ "	$1\frac{1}{2}$ "	$\frac{3}{8}$ "	$1\frac{1}{8}$ "	$\frac{3}{8}$ "
	6	26	6	7.87	2.36	5.0	4.0	69	14.79	1"	$1\frac{13}{16}$ "	$1\frac{3}{4}$ "	$\frac{7}{16}$ "	$1\frac{7}{16}$ "	$\frac{7}{16}$ "
	7	28	8	8.98	2.48	5.0	4.0	72	15.52	$1\frac{1}{8}$ "	$1\frac{15}{16}$ "	2"	$\frac{9}{16}$ "	$1\frac{5}{8}$ "	$\frac{1}{2}$ "
	8	30	8	8.62	2.60	5.0	4.0	74	16.39	$1\frac{1}{4}$ "	$2\frac{3}{16}$ "	$2\frac{3}{16}$ "	$\frac{5}{8}$ "	$1\frac{7}{8}$ "	$\frac{1}{2}$ "
	9	32	8	8.31	2.64	5.0	4.0	77	17.11	$1\frac{7}{16}$ "	$2\frac{1}{2}$ "	$2\frac{1}{2}$ "	$1\frac{1}{16}$ "	$2\frac{1}{8}$ "	$\frac{9}{16}$ "
	10	34	8	8.03	2.72	5.0	4.2	79	17.84	$1\frac{9}{16}$ "	$2\frac{3}{4}$ "	$2\frac{3}{4}$ "	$1\frac{1}{16}$ "	$2\frac{3}{8}$ "	$\frac{9}{16}$ "
	11	36	8	7.80	2.76	6.0	4.5	82	17.55	$1\frac{5}{8}$ "	$2\frac{7}{8}$ "	$2\frac{13}{16}$ "	$\frac{7}{8}$ "	$2\frac{9}{16}$ "	$\frac{5}{8}$ "
	12	38	8	7.60	2.83	6.0	4.8	84	18.27	$1\frac{7}{8}$ "	$3\frac{1}{8}$ "	$3\frac{1}{16}$ "	$1\frac{5}{16}$ "	$2\frac{7}{8}$ "	$1\frac{1}{16}$ "
	13	40	8	7.40	2.87	6.0	4.8	86	18.85	2"	$3\frac{3}{8}$ "	$3\frac{1}{4}$ "	1"	$3\frac{1}{16}$ "	$1\frac{1}{16}$ "

 Box 39" (symm. about ϵ) Straight Strand Pattern for Right Half of Box	Box Number	Number of Strands	Deflected Strands	Distance "de" to c.g. strand at box end, in.	Distance "dm" to c.g. strand at midsapn, in.	Concrete Strength @ 28 Days, ksi	Concrete Strength @ Release, ksi	Estimated Span, ft.	Estimated Initial Strand Stress Loss, ksi	Estimated Midspan Deflection, in.					Estimated Shortening 2 weeks after Release, in.	
										Upward at Release	Upward 3 months after Release (No SIDL)	Upward 5 years after Release (No SIDL)	Instantaneous Downward Due to 100 psf	Downward Due to 100 psf		5 yrs. after Loading
	1	18	6	12.13	2.20	5.0	4.0	62	10.44	7/16"	3/4"	1 1/16"	3/16"	9/16"	1/4"	
	2	20	6	11.10	2.17	5.0	4.0	66	11.31	9/16"	1 5/16"	7/8"	1/4"	1 3/16"	5/16"	
	3	22	6	10.24	2.13	5.0	4.0	69	12.18	1 1/16"	1 1/8"	1 1/8"	5/16"	1 5/16"	3/8"	
	4	24	6	9.72	2.24	5.0	4.0	73	12.91	1 3/16"	1 3/8"	1 5/16"	3/8"	1 1/8"	3/8"	
	5	26	6	9.25	2.36	5.0	4.0	76	13.78	1 5/16"	1 9/16"	1 1/2"	7/16"	1 1/4"	7/16"	
	6	28	8	10.67	2.48	5.0	4.0	78	14.50	1"	1 5/8"	1 9/16"	1/2"	1 1/2"	1/2"	
	7	30	8	10.20	2.60	5.0	4.0	81	15.23	1 1/8"	1 15/16"	1 13/16"	9/16"	1 3/4"	9/16"	
	8	32	8	9.83	2.64	5.0	4.0	84	15.95	1 1/4"	2 1/8"	2"	1 1/16"	2"	9/16"	
	9	34	8	9.45	2.72	5.0	4.0	87	16.68	1 7/16"	2 3/8"	2 1/4"	3/4"	2 1/4"	5/8"	
	10	36	8	9.13	2.76	5.0	4.2	89	17.40	1 9/16"	2 3/4"	2 1/2"	1 3/16"	2 1/2"	1 1/16"	
	11	38	8	8.82	2.83	6.0	4.5	92	16.97	1 5/8"	2 7/8"	2 5/8"	1 5/16"	2 7/8"	1 1/16"	
	12	40	10	8.58	2.87	6.0	4.5	94	17.69	1 7/8"	3 1/8"	2 7/8"	1 1/16"	3 1/8"	3/4"	
	13	42	10	9.45	2.95	6.5	4.8	96	18.27	2"	3 3/16"	2 15/16"	1 1/8"	3 3/8"	1 3/16"	

 Box 42" (symm. about ϵ) Straight Strand Pattern for Right Half of Box	Box Number	Number of Strands	Deflected Strands	Distance "de" to c.g. strand at box end, in.	Distance "dm" to c.g. strand at midsapn, in.	Concrete Strength @ 28 Days, ksi	Concrete Strength @ Release, ksi	Estimated Span, ft.	Estimated Initial Strand Stress Loss, ksi	Estimated Midspan Deflection, in.					Estimated Shortening 2 weeks after Release, in.
										Upward at Release	Upward 3 months after Release (No SIDL)	Upward 5 years after Release (No SIDL)	Instantaneous Downward Due to 100 psf	Downward Due to 100 psf	
										5 yrs. after Loading					
	1	20	6	12.01	2.17	5.0	4.0	68	11.0	1/2"	7/8"	1 3/16"	1/4"	1 1/16"	5/16"
	2	22	6	11.06	2.13	5.0	4.0	72	11.7	5/8"	1 1/8"	1 1/16"	5/16"	1 5/16"	3/8"
	3	24	6	10.43	2.24	5.0	4.0	75	12.5	3/4"	1 1/4"	1 1/8"	3/8"	1 1/16"	3/8"
	4	26	6	9.92	2.36	5.0	4.0	78	13.2	7/8"	1 1/2"	1 7/16"	7/16"	1 1/4"	7/16"
	5	28	8	11.50	2.48	5.0	4.0	82	13.9	1 5/16"	1 5/8"	1 1/2"	1/2"	1 1/2"	1/2"
	6	30	8	10.98	2.60	5.0	4.0	84	14.6	1 1/16"	1 13/16"	1 5/8"	9/16"	1 5/8"	9/16"
	7	32	8	10.55	2.64	5.0	4.0	87	15.4	1 1/4"	2"	1 7/8"	5/8"	1 7/8"	5/8"
	8	34	8	10.12	2.72	5.0	4.0	90	16.1	1 3/8"	2 1/4"	2"	1 1/16"	2 1/8"	5/8"
	9	36	8	9.76	2.76	5.0	4.0	92	16.8	1 1/2"	2 9/16"	2 3/8"	1 3/16"	2 1/2"	1 1/16"
	10	38	8	9.45	2.83	5.0	4.4	95	17.5	1 5/8"	2 7/8"	2 9/16"	1 5/16"	2 3/4"	1 1/16"
	11	40	10	9.17	2.87	6.0	4.4	98	17.1	1 5/8"	2 13/16"	2 7/16"	1 5/16"	2 7/8"	3/4"
	12	42	10	9.92	2.95	6.0	4.7	100	17.7	1 7/8"	3"	2 3/4"	1"	3 1/16"	1 3/16"
	13	44	10	9.57	2.91	6.0	5.0	102	18.4	2 1/16"	3 3/8"	3"	1 1/8"	3 1/16"	1 3/16"

 Box 48" (symm. about ϵ) Straight Strand Pattern for Right Half of Box	Box Number	Number of Strands	Deflected Strands	Distance "de" to c.g. strand at box end, in.	Distance "dm" to c.g. strand at midsapn, in.	Concrete Strength @ 28 Days, ksi	Concrete Strength @ Release, ksi	Estimated Span, ft.	Estimated Initial Strand Stress Loss, ksi	Estimated Midspan Deflection, in.					Estimated Shortening 2 weeks after Release, in.
										Upward at Release	Upward 3 months after Release (No SIDL)	Upward 5 years after Release (No SIDL)	Instantaneous Downward Due to 100 psf	Downward Due to 100 psf	
	1	26	6	11.34	2.36	5.0	4.0	83	12.5	$\frac{3}{4}$ "	$1\frac{5}{16}$ "	$1\frac{1}{8}$ "	$\frac{3}{8}$ "	$1\frac{1}{8}$ "	$\frac{1}{2}$ "
	2	28	8	13.23	2.48	5.0	4.0	86	13.2	$1\frac{3}{16}$ "	$1\frac{3}{8}$ "	$1\frac{3}{16}$ "	$\frac{7}{16}$ "	$1\frac{1}{4}$ "	$\frac{1}{2}$ "
	3	30	8	12.60	2.60	5.0	4.0	90	13.8	$1\frac{5}{16}$ "	$1\frac{9}{16}$ "	$1\frac{3}{8}$ "	$\frac{1}{2}$ "	$1\frac{1}{2}$ "	$\frac{9}{16}$ "
	4	32	8	12.05	2.64	5.0	4.0	92	14.5	$1\frac{1}{16}$ "	$1\frac{13}{16}$ "	$1\frac{9}{16}$ "	$\frac{9}{16}$ "	$1\frac{3}{4}$ "	$\frac{9}{16}$ "
	5	34	8	11.57	2.72	5.0	4.0	95	15.1	$1\frac{1}{4}$ "	$2\frac{1}{16}$ "	$1\frac{3}{4}$ "	$1\frac{1}{16}$ "	2"	$\frac{5}{8}$ "
	6	36	8	11.14	2.76	5.0	4.0	98	15.8	$1\frac{3}{8}$ "	$2\frac{1}{4}$ "	$1\frac{15}{16}$ "	$\frac{3}{4}$ "	$2\frac{1}{4}$ "	$1\frac{1}{16}$ "
	7	38	8	10.75	2.83	5.0	4.1	101	16.5	$1\frac{1}{2}$ "	$2\frac{1}{2}$ "	$2\frac{3}{16}$ "	$1\frac{3}{16}$ "	$2\frac{1}{2}$ "	$\frac{3}{4}$ "
	8	40	10	10.43	2.87	5.0	4.0	103	17.1	$1\frac{5}{8}$ "	$2\frac{9}{16}$ "	$2\frac{1}{16}$ "	$\frac{7}{8}$ "	$2\frac{3}{4}$ "	$1\frac{3}{16}$ "
	9	42	10	11.61	2.95	5.0	4.4	106	17.7	$1\frac{3}{4}$ "	$2\frac{13}{16}$ "	$2\frac{3}{8}$ "	1"	3"	$1\frac{3}{16}$ "
	10	44	10	11.18	2.91	6.0	4.6	109	17.3	$1\frac{13}{16}$ "	3"	$2\frac{7}{16}$ "	$1\frac{1}{16}$ "	$3\frac{3}{16}$ "	$1\frac{3}{16}$ "
	11	46	10	10.82	2.95	6.0	4.9	111	17.8	$1\frac{5}{16}$ "	$3\frac{3}{16}$ "	$2\frac{5}{8}$ "	$1\frac{1}{8}$ "	$3\frac{7}{16}$ "	$\frac{7}{8}$ "
	12	48	12	11.81	3.03	6.0	4.9	113	18.6	$2\frac{1}{16}$ "	$3\frac{5}{16}$ "	$2\frac{9}{16}$ "	$1\frac{1}{4}$ "	$3\frac{5}{8}$ "	$1\frac{5}{16}$ "
	13	50	14	12.64	3.15	6.5	5.0	116	18.0	$1\frac{15}{16}$ "	$3\frac{3}{8}$ "	$2\frac{1}{2}$ "	$1\frac{5}{16}$ "	$3\frac{7}{8}$ "	$1\frac{5}{16}$ "