PSC BEAM INPUT

STRAND Note: No of Strands will be imported from a selected design output file. A Design Run will use the Maximum Number of Strands allowed, not the values shown here.

	GENERAL DATA												BEAM DATA		STRAND DATA																									
PSC BEAM CASE	D / A	Span Length (ft)	Beam Type	Beam Spacing (ft)	No of Beams	Curb to Curb Width (ft)	No of Barriers	Deck Over-hang (ft)	Wt of each Barrier (plf)*	Utility Wt per Beam (plf)*	f'c (psi)	f'ci (psi)*	Design Coping DF (in)	Plain Rebar Yield (ksi)	Over-hang Dist X (ft)	Row 1	Row 2	Row 3	Row 4	Row 5	Row 6	Row 7	Row 8	Row 9	Row 10	Row 11	Row 12	Row 13	Row 14	Row 15	Row 16	Row 17	Row 18	Row 19	Row 20	Bottom Strand Area (in^2)	Top Strand Area (in^2)	Bottom Strand Reduct Factor	Ult Strand Stress (ksi)	Top Strand Pull [F / 10]
A	D	140.000	BT 74	8.000	5	36.00	2	3.625			9,000	6,800	0.000	60	0.583	12	12	12	8	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.2170	0.2170	0.75	270	F
A	A	134.000	BT 74	7.500	5	34.00	2	3.625			9,000	6,800	0.000	60	0.583	12	12	12	8	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.2170	0.2170	0.75	270	F
A	A	134.000	BT 74	8.920	5	39.68	2	3.625			9,000	6,800	0.000	60	0.583	12	12	12	8	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.2170	0.2170	0.75	270	F
A	A	150.000	BT 74	6.080	6	34.40	2	3.625			9,000	6,800	0.000	60	0.583	12	12	12	8	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.2170	0.2170	0.75	270	F
	A		BT 74	6.080	6	34.40	2	3.625			9,000	6,800	0.000	60	0.583	12	12	12	8	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.2170	0.2170	0.75	270	F
B	D	140.000	BT 74	8.420	5	37.68	2	3.625			9,500	7,400	0.000	60	0.583	12	12	12	8	4	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.2170	0.2170	0.75	270	F
B	A	136.000	BT 74	7.500	5	34.00	2	3.625			9,500	7,400	0.000	60	0.583	12	12	12	8	4	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.2170	0.2170	0.75	270	F
B	A	136.000	BT 74	9.170	4	31.51	2	3.625			9,500	7,400	0.000	60	0.583	12	12	12	8	4	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.2170	0.2170	0.75	270	F
B	A	142.000	BT 74	8.250	5	37.00	2	3.625			9,500	7,400	0.000	60	0.583	12	12	12	8	4	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.2170	0.2170	0.75	270	F
	A		BT 74	8.250	5	37.00	2	3.625			9,500	7,400	0.000	60	0.583	12	12	12	8	4	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.2170	0.2170	0.75	270	F
C	D	155.000	BT 74	6.580	5	30.32	2	3.625			10,000	7,200	0.000	60	0.583	12	12	12	8	4	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.2170	0.2170	0.75	270	F
C	A	141.000	BT 74	7.500	5	34.00	2	3.625			10,000	7,200	0.000	60	0.583	12	12	12	8	4	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.2170	0.2170	0.75	270	F
C	A	141.000	BT 74	8.500	5	38.00	2	3.625			10,000	7,200	0.000	60	0.583	12	12	12	8	4	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.2170	0.2170	0.75	270	F
C	A	158.000	BT 74	6.000	6	34.00	2	3.625			10,000	7,200	0.000	60	0.583	12	12	12	8	4	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.2170	0.2170	0.75	270	F
C	A	147.000	BT 74	7.580	6	41.90	2	3.625			10,000	7,200	0.000	60	0.583	12	12	12	8	4	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.2170	0.2170	0.75	270	F
D	D	123.000	BT 74	8.500	5	38.00	2	3.625			7,500	6,000	0.000	60	0.583	12	12	12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.2170	0.2170	0.75	270	F
D	A	107.000	BT 74	9.920	5	43.68	2	3.625			7,500	6,000	0.000	60	0.583	12	12	12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.2170	0.2170	0.75	270	F
D	A	107.000	BT 74	8.500	5	38.00	2	3.625			7,500	6,000	0.000	60	0.583	12	12	12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.2170	0.2170	0.75	270	F
D	A	115.000	BT 74	9.920	5	43.68	2	3.625			7,500	6,000	0.000	60	0.583	12	12	12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.2170	0.2170	0.75	270	F
D	A	131.000	BT 74	7.000	5	32.00	2	3.625			7,500	6,000	0.000	60	0.583	12	12	12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.2170	0.2170	0.75	270	F
E	D	100.000	BT 74	9.000	5	40.00	2	3.625			7,000	5,600	0.000	60	0.583	12	12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.2170	0.2170	0.75	270	F
E	A	90.000	BT 74	9.920	5	43.68	2	3.625			7,000	5,600	0.000	60	0.583	12	12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.2170	0.2170	0.75	270	F
E	A	95.000	BT 74	9.920	5	43.68	2	3.625			7,000	5,600	0.000	60	0.583	12	12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.2170	0.2170	0.75	270	F
E	A	115.000	BT 74	6.920	6	38.60	2	3.625			7,000	5,600	0.000	60	0.583	12	12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.2170	0.2170	0.75	270	F
	A		BT 74	6.920	6	38.60	2	3.625			7,000	5,600	0.000	60	0.583	12	12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.2170	0.2170	0.75	270	F
F	D	132.000	BT 74	8.500	5	38.00	2	3.625			8,500	6,400	0.000	60	0.583	12	12	12	6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.2170	0.2170	0.75	270	F
F	A	123.000	BT 74	8.500	5	38.00	2	3.625			8,500	6,400	0.000	60	0.583	12	12	12	6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.2170	0.2170	0.75	270	F
F	A	123.000	BT 74	9.920	5	43.68	2	3.625			8,500	6,400	0.000	60	0.583	12	12	12	6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.2170	0.2170	0.75	270	F
F	A	146.000	BT 74	6.080	6	34.40	2	3.625			8,500	6,400	0.000	60	0.583	12	12	12	6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.2170	0.2170	0.75	270	F
	A		BT 74	6.080	6	34.40	2	3.625			8,500	6,400	0.000	60	0.583	12	12	12	6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.2170	0.2170	0.75	270	F
G	D	52.000	PSC II	8.000	5	36.00	2	3.625			6,500	5,200	0.000	60	0.583	8	6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.2170	0.2170	0.75	270	F
	A		PSC II	8.000	5	36.00	2	3.625			6,500	5,200	0.000	60	0.583	8	6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.2170	0.2170	0.75	270	F
	A		PSC II	8.000	5	36.00	2	3.625			6,500	5,200	0.000	60	0.583	8	6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.2170	0.2170	0.75	270	F
	A		PSC II	8.000	5	36.00	2	3.625			6,500	5,200	0.000	60	0.583	8	6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.2170	0.2170	0.75	270	F
	A		PSC II	8.000	5	36.00	2	3.625			6,500	5,200	0.000	60	0.583	8	6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.2170	0.2170	0.75	270	F

PSC BEAM INPUT

DRAPE Note: Max Raise & Strands will be imported from a selected design output file. A Design Run will use the Maximum Values allowed.

P-LOADS Note: Defaults will be used if P1 = 0; If a value is entered for P1, ALL Defaults are overridden.

	GENER						DRAPE DATA																							P-LOADS (To Override Defaults Only)									
PSC BEAM CASE	D / A	Span Length (ft)	Beam Type	Beam Spacing (ft)	No of Beams	Curb to Curb Width (ft)	Draped [Y/N]	Max Raise (in)	Hold Down Point	Drp 1	Drp 2	Drp 3	Drp 4	Drp 5	Drp 6	Drp 7	Drp 8	Drp 9	Drp 10	Drp 11	Drp 12	Drp 13	Drp 14	Drp 15	Drp 16	Drp 17	Drp 18	Drp 19	Drp 20	XP1 (ft)	P1 (kip)	XP2 (ft)	P2 (kip)	XP3 (ft)	P3 (kip)	XP4 (ft)	P4 (kip)	XP5 (ft)	P5 (kip)
A	D	140.000	BT 74	8.000	5	36.00	Y	61.50	0.45	2	2	2	2	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0										
A	A	134.000	BT 74	7.500	5	34.00	Y	61.50	0.45	2	2	2	2	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
A	A	134.000	BT 74	8.920	5	39.68	Y	61.50	0.45	2	2	2	2	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
A	A	150.000	BT 74	6.080	6	34.40	Y	61.50	0.45	2	2	2	2	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
	A		BT 74	6.080	6	34.40	Y	61.50	0.45	2	2	2	2	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
B	D	140.000	BT 74	8.420	5	37.68	Y	56.50	0.45	2	2	2	2	2	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0										
B	A	136.000	BT 74	7.500	5	34.00	Y	56.50	0.45	2	2	2	2	2	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
B	A	136.000	BT 74	9.170	4	31.51	Y	56.50	0.45	2	2	2	2	2	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
B	A	142.000	BT 74	8.250	5	37.00	Y	56.50	0.45	2	2	2	2	2	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
	A		BT 74	8.250	5	37.00	Y	56.50	0.45	2	2	2	2	2	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
C	D	155.000	BT 74	6.580	5	30.32	Y	65.50	0.45	2	2	2	2	2	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0										
C	A	141.000	BT 74	7.500	5	34.00	Y	65.50	0.45	2	2	2	2	2	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
C	A	141.000	BT 74	8.500	5	38.00	Y	65.50	0.45	2	2	2	2	2	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
C	A	158.000	BT 74	6.000	6	34.00	Y	65.50	0.45	2	2	2	2	2	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
C	A	147.000	BT 74	7.580	6	41.90	Y	65.50	0.45	2	2	2	2	2	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
D	D	123.000	BT 74	8.500	5	38.00	Y	50.50	0.50	2	2	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0										
D	A	107.000	BT 74	9.920	5	43.68	Y	50.50	0.50	2	2	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
D	A	107.000	BT 74	8.500	5	38.00	Y	50.50	0.50	2	2	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
D	A	115.000	BT 74	9.920	5	43.68	Y	50.50	0.50	2	2	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
D	A	131.000	BT 74	7.000	5	32.00	Y	50.50	0.50	2	2	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
E	D	100.000	BT 74	9.000	5	40.00	Y	4.50		2	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0										
E	A	90.000	BT 74	9.920	5	43.68	Y	4.50		2	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
E	A	95.000	BT 74	9.920	5	43.68	Y	4.50		2	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
E	A	115.000	BT 74	6.920	6	38.60	Y	4.50		2	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
	A		BT 74	6.920	6	38.60	Y	4.50		2	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
F	D	132.000	BT 74	8.500	5	38.00	Y	63.50	0.45	2	2	2	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0										
F	A	123.000	BT 74	8.500	5	38.00	Y	63.50	0.45	2	2	2	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
F	A	123.000	BT 74	9.920	5	43.68	Y	63.50	0.45	2	2	2	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
F	A	146.000	BT 74	6.080	6	34.40	Y	63.50	0.45	2	2	2	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
	A		BT 74	6.080	6	34.40	Y	63.50	0.45	2	2	2	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
G	D	52.000	PSC II	8.000	5	36.00	Y	11.00	0.45	2	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0										
	A		PSC II	8.000	5	36.00	Y	11.00	0.45	2	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
	A		PSC II	8.000	5	36.00	Y	11.00	0.45	2	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
	A		PSC II	8.000	5	36.00	Y	11.00	0.45	2	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
	A		PSC II	8.000	5	36.00	Y	11.00	0.45	2	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000