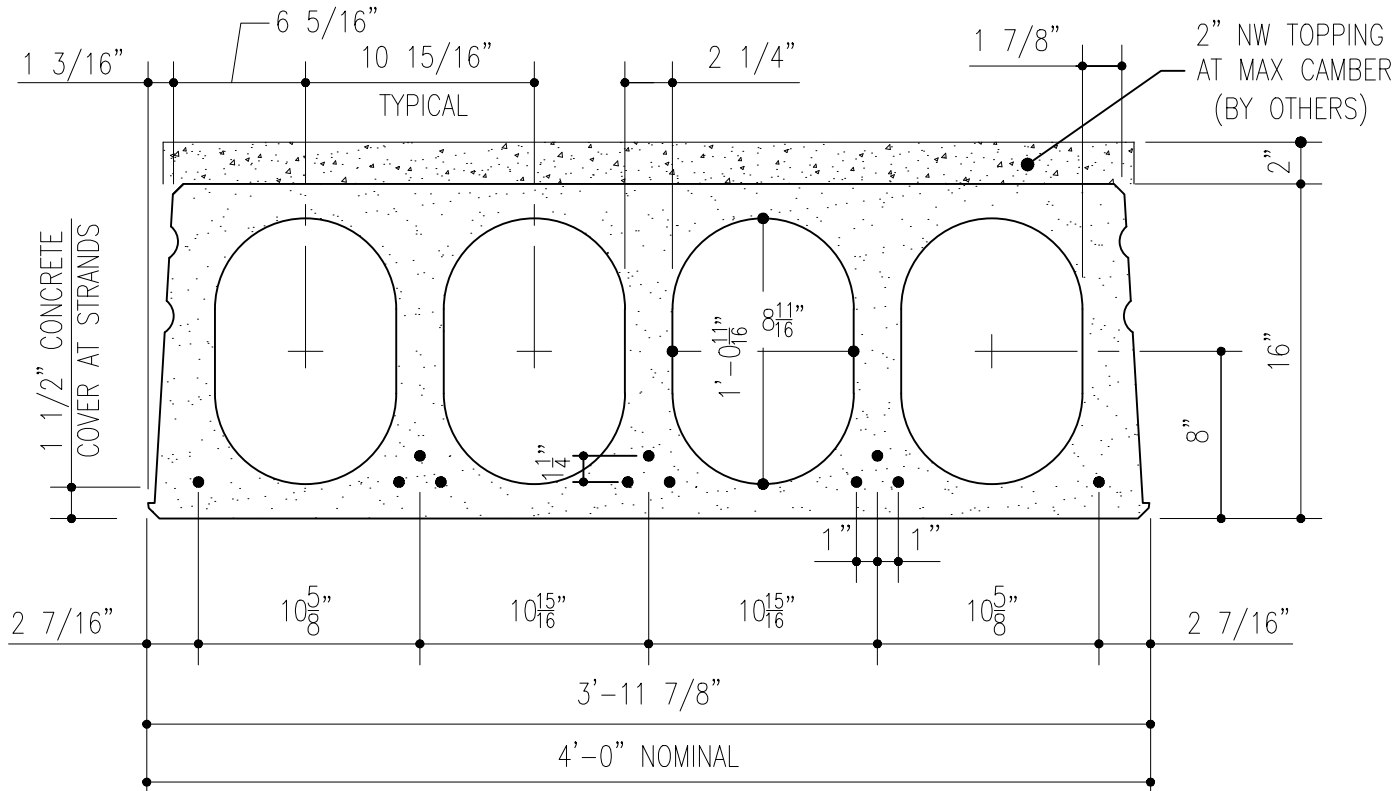




16" +T CELLA-CORE TECHNICAL DATA SHEET



LOAD TABLE OF ALLOWABLE SUPERIMPOSED LOADS IN LBS. PER SQ.FT.

STANDARD WEIGHT 16" CELLA-CORE PLANK + 2" NW CONCRETE COMPOSITE TOPPING

STRAND	STRAND AREA sq. in.	MU K-ft	CLEAR SPAN IN FEET																											
			34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58			
8-1/2" ϕ	1.224	377	308	285	264	245	227	211	195	181	168	156	144	134	124	114	104	93	83	74										
9-1/2" ϕ	1.377	419	333	314	295	278	263	245	228	213	198	184	172	160	149	137	125	114	103	93	84	75	66							
10-1/2" ϕ	1.530	461	353	332	312	294	278	262	249	235	222	212	198	184	170	157	145	134	123	112	102	92	83	74	66					
11-1/2" ϕ	1.683	503	372	350	329	310	293	276	262	248	234	223	211	199	189	175	163	151	139	129	119	110	100	91	82	74	66			

Values below lower heavy line indicate web shear controls.

Values are terminated before long term camber is less than +0" with no superimposed loads.

MATERIAL PROPERTIES

Net Area.....	469 in ²	Strength of Concrete (f 'c).....	6000 psi
Moment of Inertia.....	17097 in ⁴	Strength at Release (f 'ci).....	3500 psi
Centroid from Slab Bottom.....	9.67 in	Unit weight of Concrete.....	150 pcf
Section Modulus, Top.....	2666 in ³	Ultimate Steel Strength.....	270 ksi
Section Modulus, Bottom.....	1768 in ³	Strand Jacking Stress.....	175.5 ksi
Web Width.....	13.86 in	Strand Type.....	Low Relaxation
V/S Ratio.....	2.47 in	Grout Joint Requirements.....	871 ft ² /yd ³
Self Weight *.....	107+25 = 132 psf	* Self weights based on grouted section	

These tables are for general design with uniform loading only. Final design by Boccella engineering will depend on local codes and standards, slab openings, non-uniform loads, and project specific requirements.