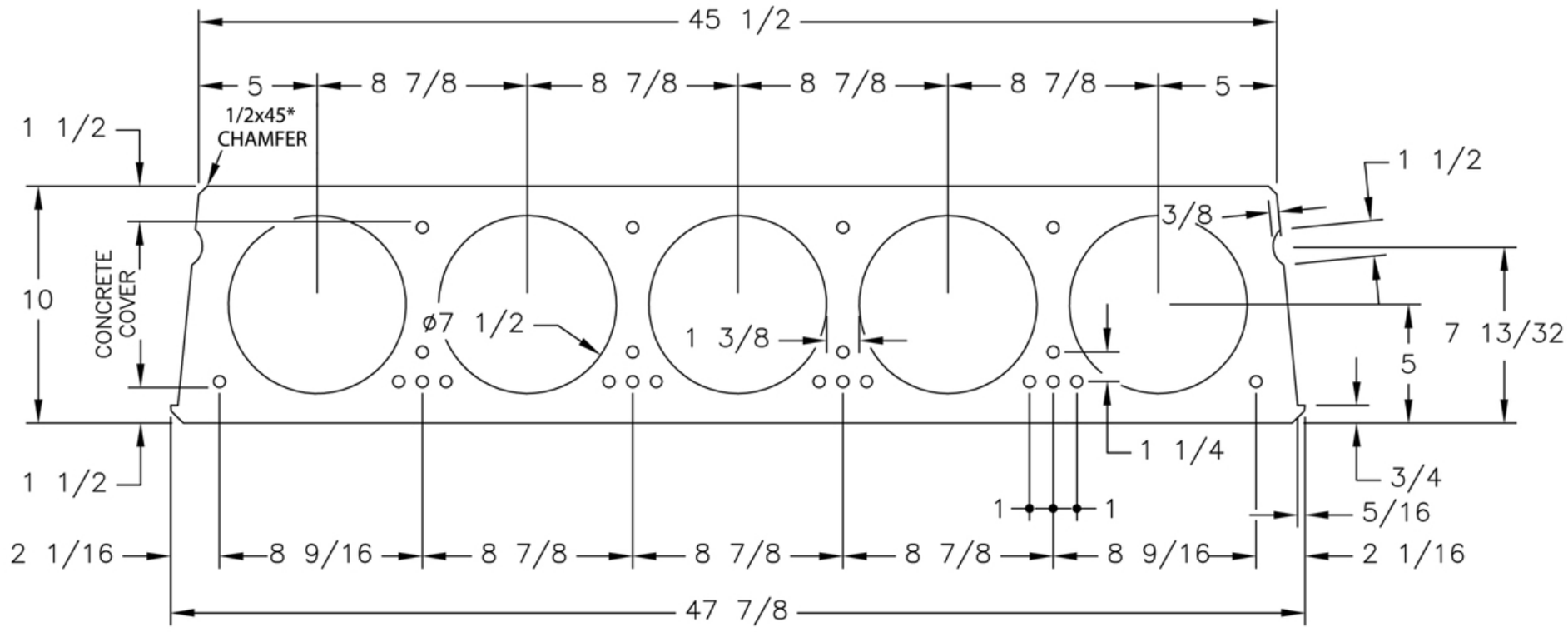
10" Slab and Reinforcing Geometry



1048 Load Table of Allowable Superimposed Service Loads psf

Strand Ø	Strands Row 1	Strands Row 2	Area of Steel in²	Vc kip	Mn kip-ft	Span (feet)																								
						25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50
12.7	4	0	0.61	18.4	96	50	42	36	30	24	20	16	12	8	5	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9.5	8	0	0.68	19.5	107	61	52	46	39	33	28	23	18	15	11	8	5	2	0	0	0	0	0	0	0	0	0	0	0	0	0
9.5	10	0	0.85	20.3	132	211	197	181	165	149	137	126	114	105	96	87	81	74	67	62	56	51	47	42	38	35	31	28	24	21	17
15.2	4	0	0.87	18.7	132	195	185	173	161	149	138	126	114	105	96	88	81	74	67	62	57	51	47	43	38	35	31	28	24	21	17
12.7	6	0	0.92	19.4	140	205	194	183	172	161	148	136	124	114	105	96	88	81	74	68	63	57	52	48	43	40	36	32	28	25	21
9.5	10	2	1.02	20.5	151	219	208	198	188	178	164	151	138	127	117	107	99	92	84	78	72	65	61	56	51	47	43	38	34	30	26
9.5	10	4	1.19	21.0	170	225	213	204	195	186	177	169	160	149	138	126	117	109	100	93	86	79	74	68	63	58	53	49	44	40	35
12.7	8	0	1.22	20.4	181	218	206	197	188	179	172	165	158	151	144	138	128	119	110	102	95	88	82	76	70	65	60	55	51	46	42
15.2	6	0	1.30	19.9	190	211	199	191	182	173	166	159	152	146	140	134	128	121	114	107	100	93	87	81	75	70	65	60	56	51	46
12.7	10	0	1.53	21.4	220	231	219	210	200	191	183	175	168	160	152	143	134	124	114	107	100	93	88	83	77	73	69	65	62	59	56
15.2	8	0	1.74	21.0	243	226	214	205	196	186	179	171	164	157	151	144	134	124	115	108	101	94	88	83	78	74	70	66	62	59	56
12.7	10	2	1.84	21.9	248	237	224	215	205	196	188	180	172	163	153	144	134	124	115	107	100	93	88	83	77	73	69	65	62	59	56
12.7	10	4	2.14	22.7	274	248	235	225	215	205	197	189	181	169	156	144	134	124	115	108	101	94	88	83	78	74	70	66	62	59	56
15.2	10	0	2.17	22.2	290	241	229	219	209	200	192	184	176	166	155	145	135	126	116	109	101	94	89	84	78	74	70	66	63	60	57

Note: Load tables provided for reference only. The user is responsible for ultimate design approvals
Service load includes 10 psf dead load
Highlighted values (bottom left) indicate web shear or flexural shear controls
Highlighted values (upper right) indicate long-time camber less than zero with no superimposed service loads
Slabs designed according to ACI-318M-14
UltraSpan reserves the right to update these load tables at any time

Slab Section and Material Properties

Net Area	242	in²	Strength of Concrete	7250	psi
Moment of Inertia	3080	in⁴	Strength at Transfer	4060	psi
Centroid from Slab Bottom	4.92	in	Unit Weight of Concrete	150	pcf
Section Modulus, Top	607	in³	Ultimate Steel Strength	270	ksi
Section Modulus, Bottom	626	in³	Strand Jacking Stress	202	ksi
Web Width	9	in	Strand Type	Low Relaxation	
V/S Ratio	2.13	in	Grout Joint Requirements	1253	sf/cy
Self Weight	63	psf	Self weights are based on ungrouted section.		

ULTRASPAN
EXPERIENCE PERFORMANCE
Experience Performance.
tel: +1-204-992-3200 **email:** info@ultraspan.ca **www.ultraspan.ca**