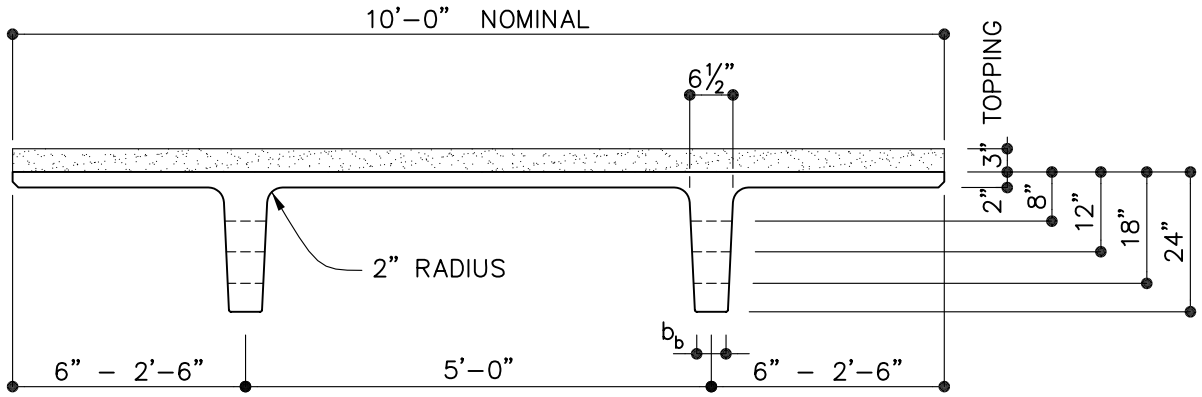
DOUBLE TEE FLOOR AND ROOF DATA



SECTION PROPERTIES

SECTION	AREA $in.^2$	WEIGHT P.L.F.	WEIGHT P.S.F.	MOMENT OF INERTIA $in.^4$	SECTION MODULUS b $in.^3$	SECTION MODULUS t $in.^3$	SECTION MODULUS t (topping) $in.^3$	Y_b in.	Y_t in.	b_b in.
Standard Unit										
10DT8	315	328	33	1195	197	897	----	6.06	1.94	6.0
10DT12	361	376	38	3864	428	1301	----	9.03	2.97	5.6
10DT18	424	442	44	11780	889	2478	----	13.25	4.75	5.0
10DT24	482	502	50	25210	1456	3768	----	17.31	6.69	4.5
Composite Unit	(Transformed area)									
10DT8	569	703	70	3051	401	897	1268	7.60	3.40	6.0
10DT12	616	751	75	7037	647	1708	2415	10.88	4.12	5.6
10DT18	679	817	82	18193	1167	3364	4757	15.59	5.41	5.0
10DT24	737	877	88	36575	1816	5332	7541	20.14	6.86	4.5

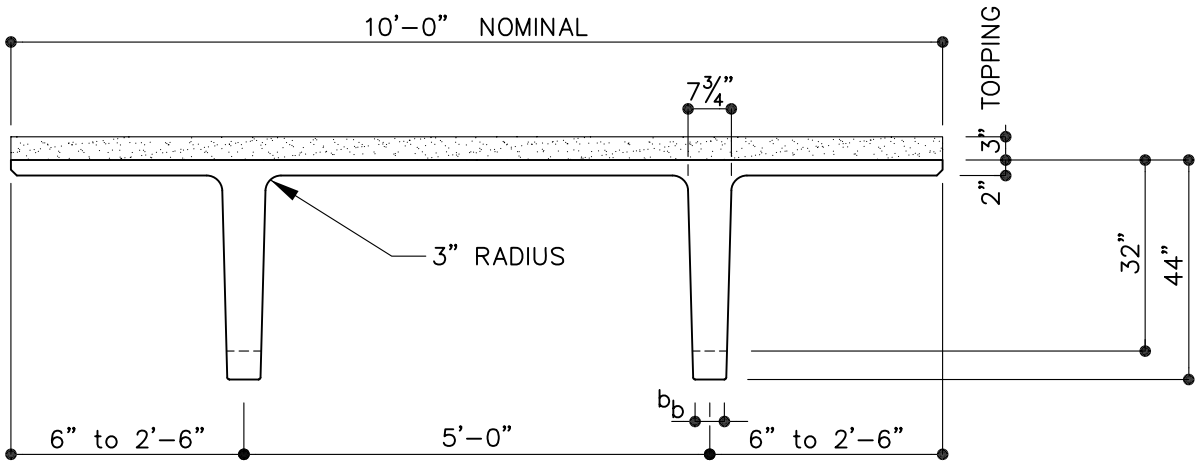
LOAD-SPAN TABLE TYPICAL SECTIONS

SAFE SUPERIMPOSED SERVICE LOAD (PSF)

SECTION	SPAN, (ft.) 18	20	22	24	26	28	30	32	34	36	38	40	42	44	46	48	50	52	54	56	58	60	62	64	66	68
10DT8	195	145	100	65	20																					
10DT12	224	168	128	116	104	92	81	64	47	30																
10DT18					230	200	185	146	130	115	102	90	80	72	65	58	52	47	42	38						
10DT24										192	170	150	132	120	110	98	89	80	73	67	61	55	50	45	41	37

Composite section with 3" of 3000 psi topping concrete. Loads shown are for general conditions only with release strengths limited to approximately 4000 psi. Other restrictions such as camber or deflection may govern span in special conditions. Greater spans may be achieved depending on conditions and final use.
f'_c precast = 6,000 psi.
Consult Rocky Mountain Precast for more specific design information.

DOUBLE TEE FLOOR AND ROOF DATA



SECTION PROPERTIES

SECTION	AREA $in.^2$	WEIGHT P.L.F.	WEIGHT P.S.F.	MOMENT OF INERTIA $in.^4$	SECTION MODULUS b $in.^3$	SECTION MODULUS t $in.^3$	Y_b in.	Y_t in.	b_b in.
Standard Unit									
10DT32	615	641	64	59720	2717	5960	21.78	10.02	4.75
10DT44	713	743	74	125860	4173	9097	30.20	13.80	3.50
Composite Unit									
10DT32	870	1020	102	83822	3307	12283	25.35	9.65	4.75
10DT44	967	1120	112	170160	4975	18802	34.20	12.80	3.50

LOAD-SPAN TABLE TYPICAL SECTIONS
SAFE SUPERIMPOSED SERVICE LOAD (PSF)

SECTION	SPAN (FT.) 40	42	44	46	48	50	52	54	56	58	60	62	64	66	68	70	72	74	76	78	80	82	84	86	88	90
10DT32	300	263	250	222	208	185	170	160	147	132	123	115	107	98	93	86	79	74	70	67	61	55	51	46	42	38
10DT44								237	218	203	190	176	166	156	146	138	131	124	116	110	103	97	92	87	83	79

Composite section with 3" fo 3000 psi topping concrete. Loads shown are for general conditions only with release strengths limited to approximately 4000 psi. Other restrictions such as camber or deflection may govern for spans greater than solid line shown. Greater spans may be achieved depending on conditions and final use.
Consult Rocky Mountain Precast, for more specific design information.