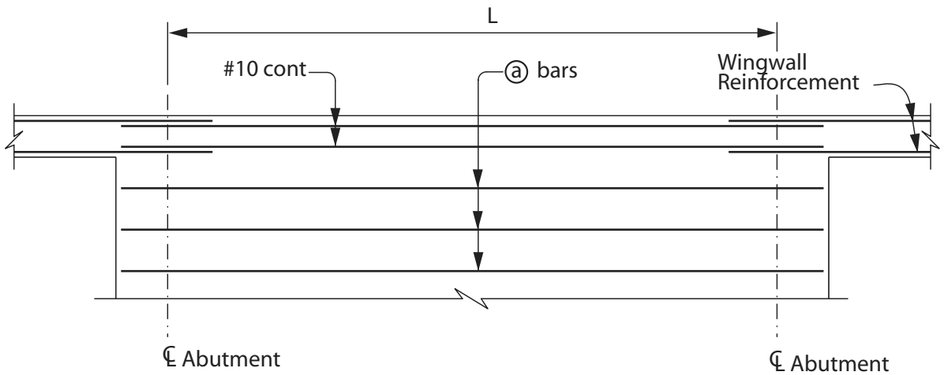
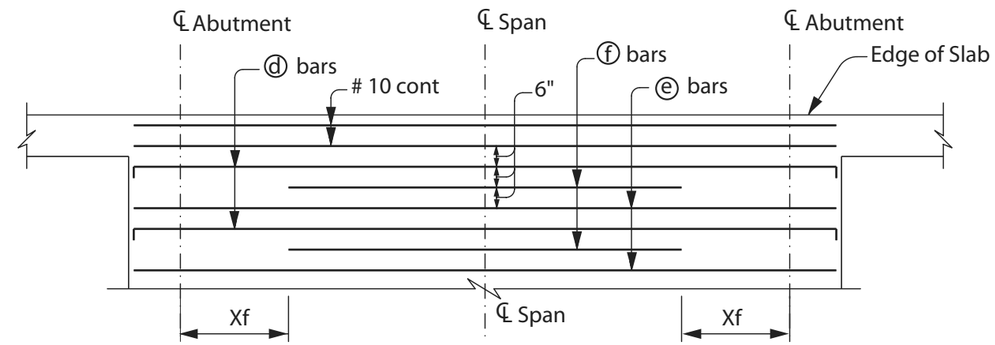


REINFORCEMENT - TOP OF SLAB



REINFORCEMENT - BOTTOM OF SLAB

L=Length of Span				16′	18′	20′	22′	24′	26′	28′	30′	32′	34′	36′	38′	40′	42′	44′
REINFORCEMENT	Top of Slab(1)	ⓐ bars	Size	#4	#4	#4	#4	#4	#4	#5	#5	#5	#5	#5	#5	#5	#5	#5
			Spacing	15"	15"	15"	12"	12"	12"	15"	15"	15"	15"	15"	12"	12"	12"	12"
	Bottom of Slab	ⓓ bars	Size	#8	#8	#8	#8	#8	#8	#9	#9	#9	#9	#10	#10	#10	#10	#10
			Length	Continuous with a standard hook at each end														
		e bars	Size	#7	#7	#8	#8	#8	#8	#8	#9	#9	#9	#9	#9	#10	#10	#10
			Length	Continuous without hooks														
		ⓕ bars	Size	#7	#7	#7	#7	#8	#8	#8	#8	#8	#9	#9	#9	#9	#9	#9
			Length	12.0′	13.0′	15.0′	16.0′	17.0′	19.0′	20.0′	21.0′	23.0′	24.0′	25.0′	27.0′	28.0′	30.0′	31.0′
			Xf	2.0′	2.5′	2.5′	3.0′	3.5′	3.5′	4.0′	4.5′	4.5′	5.0′	5.5′	5.5′	6.0′	6.0′	6.5′
Distribution Steel spacing				11"	11"	11"	11"	11"	11"	11"	11"	11"	10"	10"	10"	10"	10"	10"
T=Thickness of Slab(2)				12½"	13½"	14½"	15½"	16½"	17½"	18½"	19½"	20½"	21½"	22"	23"	24½"	26½"	28"
Approximate quantities per foot of width			Concrete (ft^3)	18.2	21.9	26.0	30.4	35.1	40.1	45.5	51.2	57.2	63.6	68.8	75.7	84.7	96.1	106.2
			Steel (lbs)	114	126	149	168	191	204	244	275	293	325	368	405	450	473	493
Camber at Mid-Span				.02′	.02′	.03′	.04′	.04′	.05′	.06′	.07′	.09′	.10′	.12′	.13′	.14′	.14′	.15′

SLAB DETAILS - SINGLE SPAN

tes:

(1 - r transverse reinforcement in the top of slab use the same bar size and spacing as the a bars.

(2) Add ½" for corrosion protection and adjust concrete quantity.

(3) Live Loading: HL93 and P15 design load.