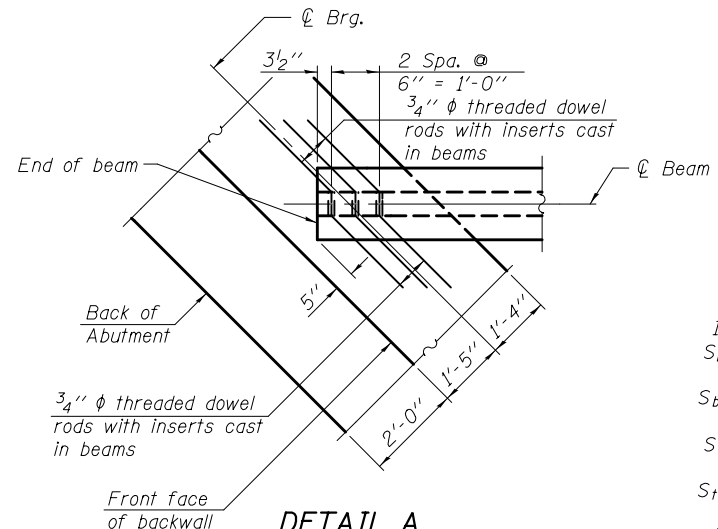


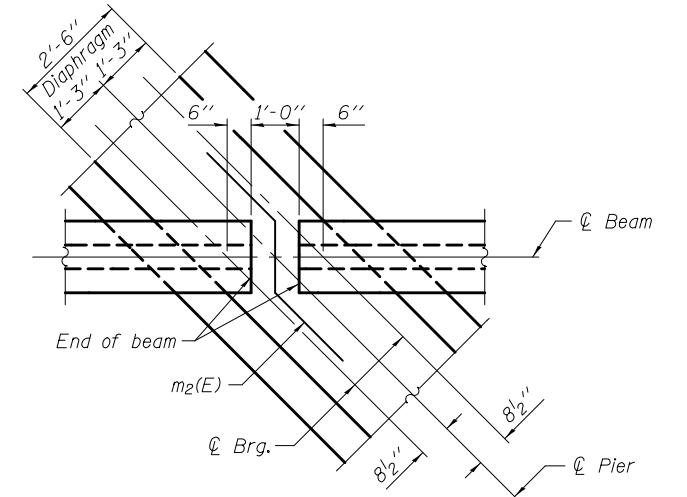
PLAN



DETAIL A

- I : Non-composite moment of inertia of beam section (in^4).
- I' : Composite moment of inertia of beam section (in^4).
- S_b : Non-composite section modulus for the bottom fiber of the prestressed beam (in^3).
- S_b' : Composite section modulus for the bottom fiber of the prestressed beam (in^3).
- S_t : Non-composite section modulus for the top fiber of the prestressed beam (in^3).
- S_t' : Composite section modulus for the top fiber of the prestressed beam (in^3).
- Q : Un-factored non-composite dead load (kips/ft.).
- M_Q : Un-factored moment due to non-composite dead load conservatively taken at 0.5 of the span (kip-ft.).
- s_Q : Un-factored long-term composite (superimposed) dead load (kips/ft.).
- M_{sQ} : Un-factored moment due to long-term composite (superimposed) dead load (kip-ft.).
- M_L : Un-factored live load moment on the composite section (kip-ft.).
- M_I : Un-factored moment due to impact on the composite section (kip-ft.).

INTERIOR BEAM MOMENT TABLE				
		0.4 Sp. 1 0.6 Sp. 3	Pier 1 or 2	0.5 Sp. #2
I	(in^4)	48647.6	-	48647.6
I'	(in^4)	171144	-	171144
S_b	(in^3)	3165.1	-	3165.1
S_b'	(in^3)	5863	-	5863
S_t	(in^3)	2358.1	-	2358.1
S_t'	(in^3)	25131	-	25131
Q	(k')	1.022	-	1.022
M_Q	($'\text{k}$)	203	-	212
s_Q	(k')	0.492	0.492	0.492
M_{sQ}	($'\text{k}$)	62	80	22
M_L	($'\text{k}$)	218	158	180
M_I	($'\text{k}$)	65	47	54



DETAIL B

INTERIOR BEAM REACTION TABLE				
		Abut.	Pier 1 Span 1 Pier 2 Span 3	Pier 1 Span 2 Pier 2 Span 2
R_Q	(k)	20.4	20.4	20.8
* R_{sQ}	(k)	7.8	10.9	10.9
* R_L	(k)	32.2	20.6	20.6
* $Imp.$	(k)	9.7	6.2	6.2
R (Total)	(k)	70.1	58.1	58.5

* At continuous piers, reactions from composite loads are assumed to be equally distributed to each bearing line.