

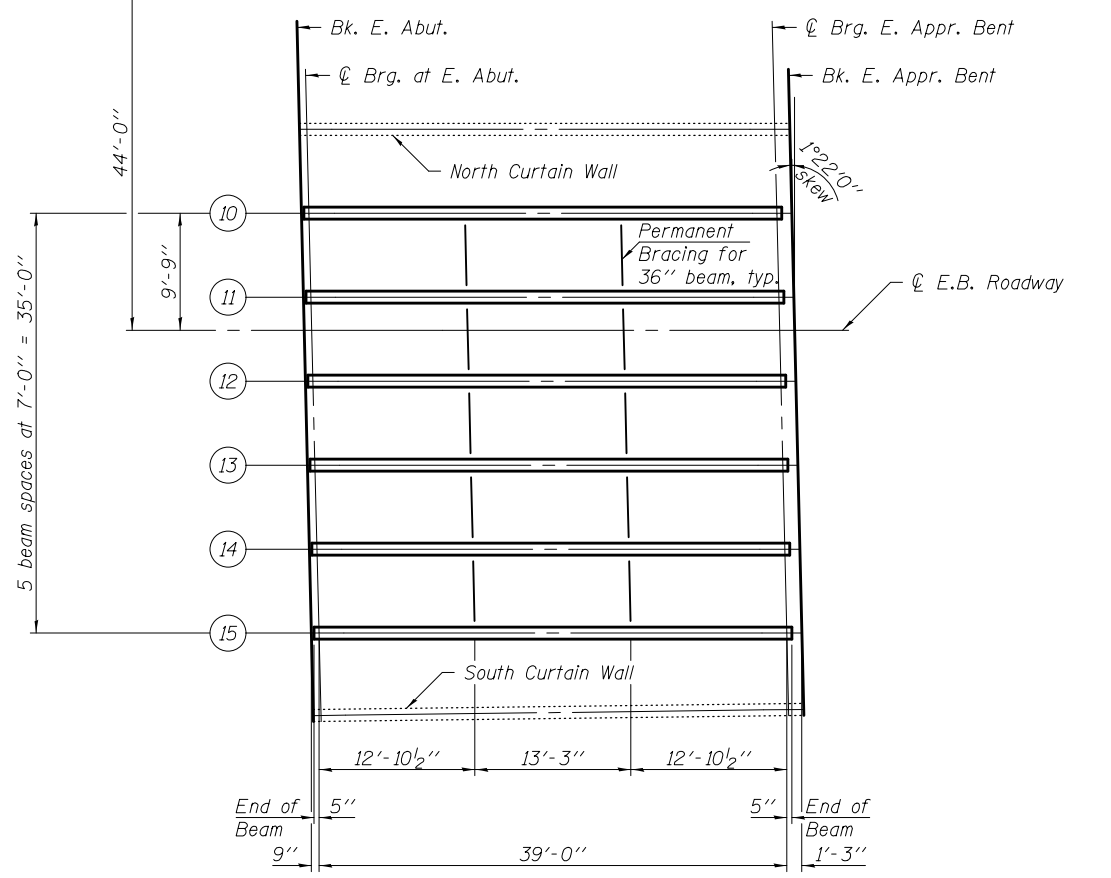
INTERIOR BEAM MOMENT TABLE		
	W.B. Span 4	0.5 Span
I	(in ⁴)	48,648
I'	(in ⁴)	182,899
S_b	(in ³)	3,165
S_b'	(in ³)	6,035
S_t	(in ³)	2,358
S_t'	(in ³)	32,113
Q	(k/')	1.172
M_Q	('k)	150
s_Q	(k/')	0.188
$M_s Q$	('k)	24
M_t	('k)	202
M_I	('k)	61

INTERIOR BEAM MOMENT TABLE		
	E.B. Span 4	0.5 Span
I	(in ⁴)	48,648
I'	(in ⁴)	179,112
S_b	(in ³)	3,165
S_b'	(in ³)	5,991
S_t	(in ³)	2,358
S_t'	(in ³)	29,344
Q	(k/')	1.115
M_Q	('k)	212
s_Q	(k/')	0.174
$M_s Q$	('k)	33
M_t	('k)	268
M_I	('k)	81

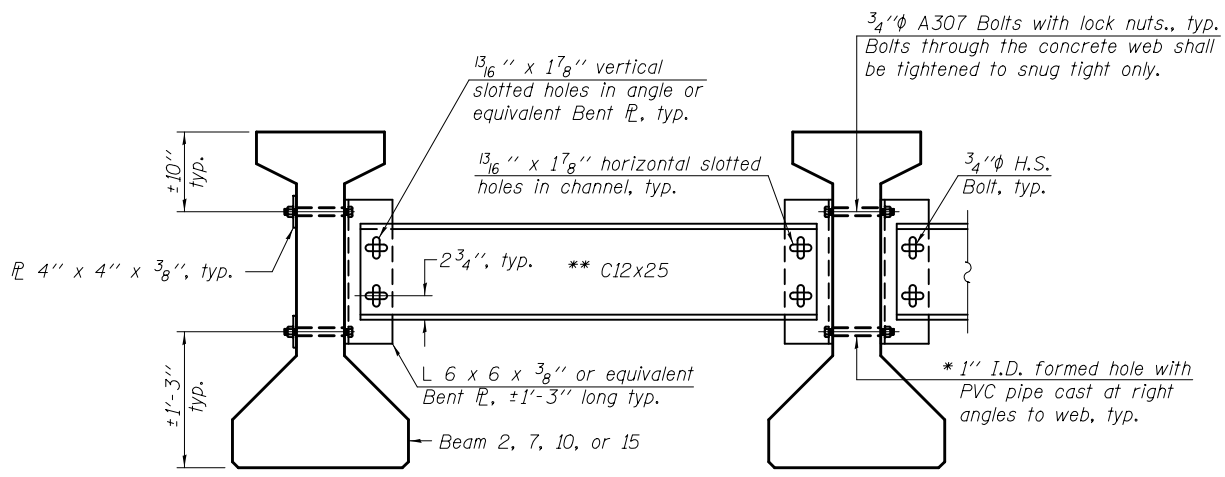
INTERIOR BEAM REACTION TABLE		
	W.B. Span 4	Abut.
R_Q	(k)	18.7
$R_s Q$	(k)	3.0
R_t	(k)	34.8
R_I	(k)	10.4
R_{Total}	(k)	66.9

INTERIOR BEAM REACTION TABLE		
	E.B. Span 4	Abut.
R_Q	(k)	21.7
$R_s Q$	(k)	3.4
R_t	(k)	34.8
R_I	(k)	10.5
R_{Total}	(k)	70.4

I : Non-composite moment of inertia of beam section (in⁴).
 I' : Composite moment of inertia of beam section (in⁴).
 S_b : Non-composite section modulus for the bottom fiber of the prestressed beam (in³).
 S_b' : Composite section modulus for the bottom fiber of the prestressed beam (in³).
 S_t : Non-composite section modulus for the top fiber of the prestressed beam (in³).
 S_t' : Composite section modulus for the top fiber of the prestressed beam (in³).
 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.).
 $M_s Q$: Un-factored moment due to long-term composite (superimposed) dead load (kip-ft.).
 M_t : 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.).



FRAMING PLAN - SPAN 4



Notes:
 All material for bracing shall be hot dip galvanized according to AASHTO M111 unless otherwise noted.
 Two hardened washers are required for each set of oversized holes.
 All holes shall be 1/16" unless otherwise noted.
 5/16" x 3" x 3" plate washers are required over all slotted holes.
 All bolts shall be galvanized according to AASHTO M232.
 Bracing shall be installed as beams are erected and tightened as soon as possible during erection.
 Permanent bracing shall not be paid for separately, but shall be included in the cost of Furnishing and Erecting Precast Prestressed Concrete I-Beams.

* Fabricator shall locate to miss strands within permissible tolerances.
 ** Alternate C12x30 channels are permitted to facilitate material acquisition.

PERMANENT BRACING DETAILS FOR 36" PPC I-BEAMS

Notes:
 For W.B. Span 4 beam details, see sheets 54 & 55 of 62.
 For E.B. Span 4 beam details, see sheets 52 & 53 of 62.