

FRAMING PLAN

INTERIOR GIRDER MOMENT TABLE		0.5 Sp. 1
Is	(in ⁴)	5630
Ic (n)	(in ⁴)	14,188
Ic (3n)	(in ⁴)	10,237
Ss	(in ³)	411
Sc (n)	(in ³)	1252
Sc (3n)	(in ³)	634
Z	(in ³)	461
D	(k/ft.)	0.76
M _D	(k)	345
s _D	(k/ft.)	0.45
M _{sD}	(k)	200
M _L	(k)	423
M (Imp)	(k)	127
5 ₃ [M _L + M (Imp)]	(k)	917
M _a	(k)	1901
M _u	(k)	2643
fs _D non-comp (k.s.i.)		7.9
fs _D (comp) (k.s.i.)		4.6
fs ₃ (L + Imp) (k.s.i.)		20.9
fs (Overload) (k.s.i.)		33.4
fs (Total) (k.s.i.)		43.4
VR	(k)	42.8

INTERIOR GIRDER REACTION TABLE		Abuts.
R _D	(k)	60.8
R _L	(k)	33.5
Imp.	(k)	14.4
R (Total)	(k)	108.7

Is and Ss are the moment of inertia and section modulus of the steel section used in computing fs (Total & Overload).

Ic_(n) and Sc_(n) are the moment of inertia and section modulus of the composite section used in computing stresses due to Live Load.

Ic_(3n) and Sc_(3n) are the moment of inertia and section modulus of the composite section used in computing stresses due to superimposed dead loads. (see AASHTO 10.38)

VR is the maximum Live Load + Impact shear range in span.

Z is the plastic section modulus used to determine the fully plastic moments in the non-composite areas.

M_a (Applied Moment) = 1.3[M_D + M_{sD} + 5₃(M_L + M (Imp))].

The Plastic Moment capacity (M_u) is computed according to AASHTO 10.48.1 and 10.50.1.1.

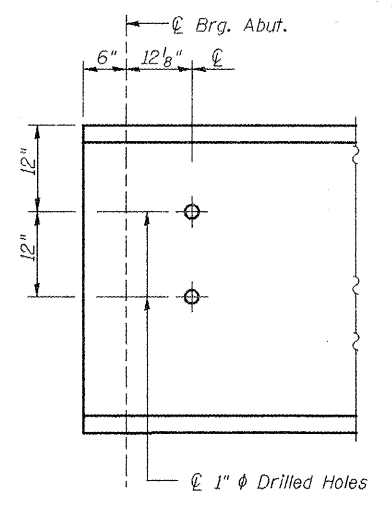
fs (Overload) is the sum of the stresses due to M_D + M_{sD} + 5₃(M_L + M (Imp)).

fs (Total) (Non-compact section) is the sum of the stresses due to 1.3[M_D + M_{sD} + 5₃(M_L + M (Imp))].

Dead Load Reactions at Abutments include 24.5 k for Concrete Diaphragm plus Approach Pavement.

All cross frames or diaphragms shall be installed as steel is erected and secured with erection pins and bolts except as otherwise noted. Individual cross frames or diaphragms at supports may be temporarily disconnected to install bearing anchor rods.

Load carrying components designated "NTR" shall conform to the Supplemental Requirements for Notch Toughness, Zone 2.

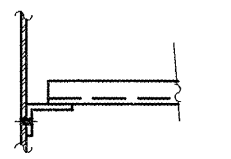


END OF BEAM DETAIL
(12 Required)

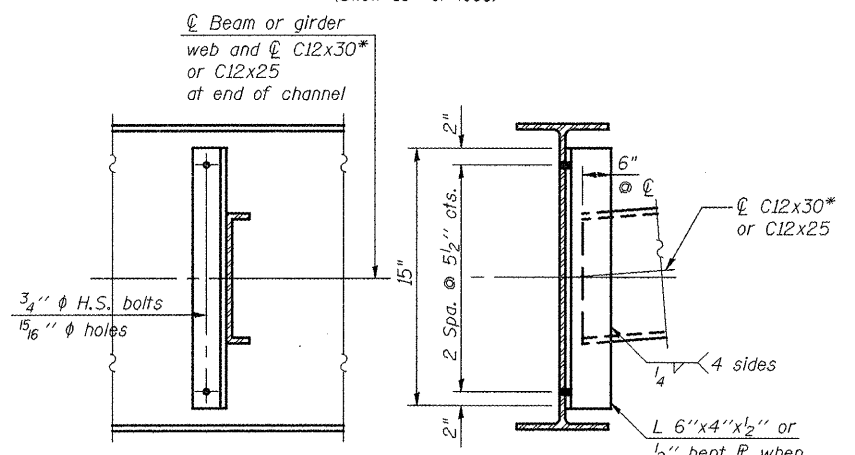
TOP OF BEAM ELEVATIONS

Beam	C Brg. N. Abut.	C Brg. S. Abut.
Bm 1	617.061	616.755
Bm 2	617.170	616.864
Bm 3	617.264	616.958
Bm 4	617.264	616.958
Bm 5	617.170	616.864
Bm 6	617.061	616.755

For fabrication only.

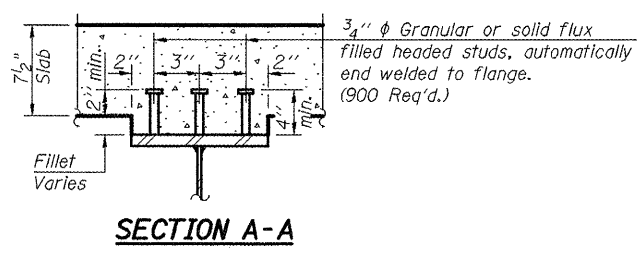


ALONG SKEW
(Skew 10° or less)



DIAPHRAGM D
20 Required

Note:
Two hardened washers shall be required over all oversize holes for diaphragms.
* Alternate channels are permitted to facilitate material acquisition. Calculated weight of structural steel is based on the lighter section.



SECTION A-A

