

SPANS #1 THRU #7

SPANS #1 THRU #3

INTERIOR BEAM MOMENT TABLE *

	1 Sp. #1 or 3 Sp. #3	Pier #1 or Pier #2	5 Sp. #2
I _s (in ⁴)	7820	9760	9030
I _c (in ⁴)			23,794
S _s (in ³)	440	592	504
S _c (in ³)			730
I _e (in ⁴)	1,315	1,324	1,000
M _E (IK)	65	150	258
I _s e (ksi)	1.8	10.0	0.1
S _e (in ³)			3.15
M _s e (IK)			103
M _E (IK)	253	252	510
M _{total} (IK)	76	70	151
M _{total} (IK)	329	322	744
I _s (E _s) (ksi)	9.0	7.1	12.2
I _s TOTAL (ksi)	10.8	17.1	18.3

INTERIOR BEAM MOMENT TABLE *

	1 Sp. #4 or 3 Sp. #7	Pier #4 or Pier #6	5 Sp. #5 or 5 Sp. #6	Pier #5
I _s (in ⁴)	6710	6710	6710	6710
S _s (in ³)	456	456	456	456
I _e (in ⁴)	13.5	13.5	13.5	13.5
M _E (IK)	198	358	101	322
M _s e (IK)	323	258	318	208
M _{total} (IK)	54	73	89	74
M _{total} (IK)	615	669	568	664
I _s (ksi)	18.2	19.8	6.8	19.6

INTERIOR BEAM REACTION TABLE

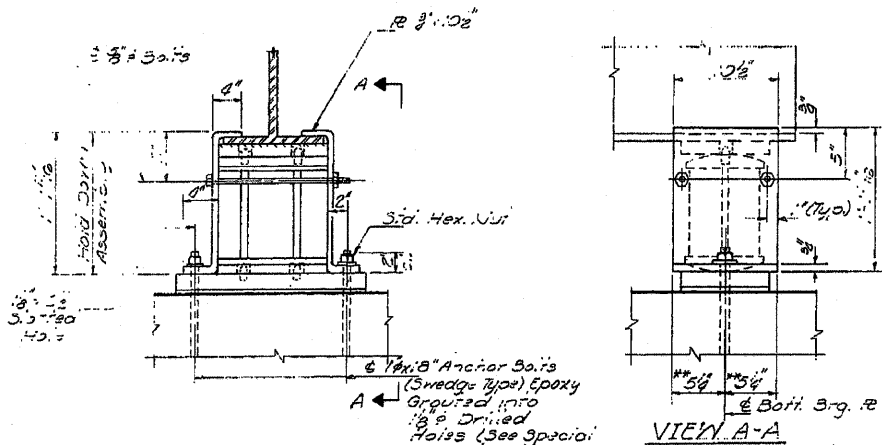
	3 Sp. Pier #3 or 5 Sp. #7	Pier #4 or Pier #6	Pier #5
R _e (K)	22.9	73.8	71.3
R _s (K)	39.6	49.4	49.3
R _{total} (K)	11.0	14.1	13.5
R _{total} (K)	74.1	137.3	134.5

INT. BM. REACTION TABLE

	N. Abt or N. Brg. Pier #3	Pier #1 or Pier #2
R _e (K)	14.5	85.7
R _s (K)	37.5	49.7
R _{total} (K)	11.3	13.8
R _{total} (K)	63.3	147.2

I_s and S_s are the moment of inertia and section modulus of the steel section. I_c and S_c are the moment of inertia and section modulus of the composite section used in computing I_s. V_R is the maximum impact shear range in span used to determine shear connector spacing.

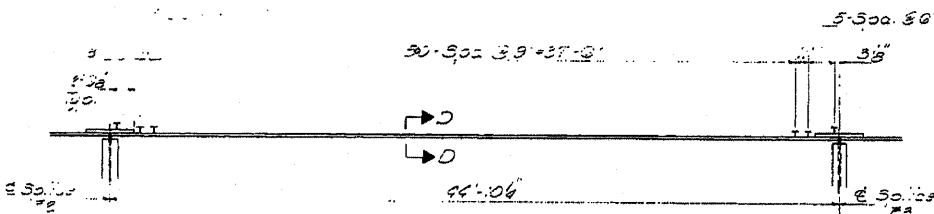
* Moments & stresses shown do not include secondary effects due to horizontal curvature of beams which is estimated to be 3%.



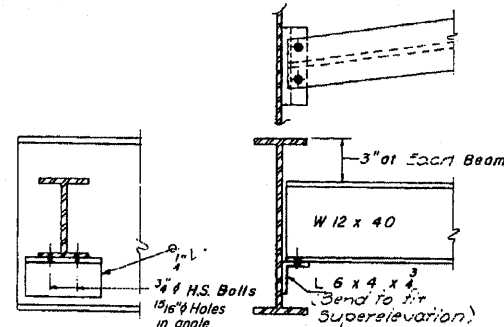
HOLD-DOWN DETAILS SPANS #1 THRU #3

Spans shall be held down at the bearing on the concrete end of spans #1 thru #3 from which the deck is to be removed. After pouring is completed, the spans shall be held down by means of the hold-down assembly shown on this detail. The hold-down assembly shall be installed in accordance with the provisions of the specifications.

**Location Dim. may be adjusted to account for any rotation of the rocker due to temp.

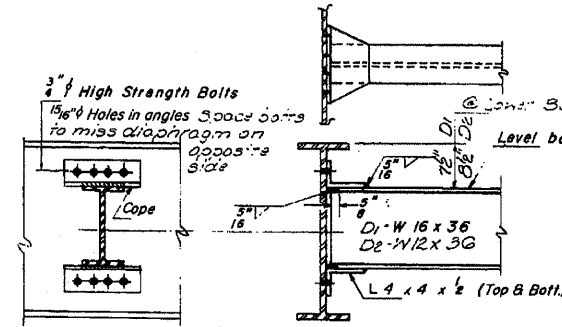


ELEVATION (Showing Shear Stud Conn. spacing for Span #2 on y-y)



DIAPHRAGM D

D₂ Required



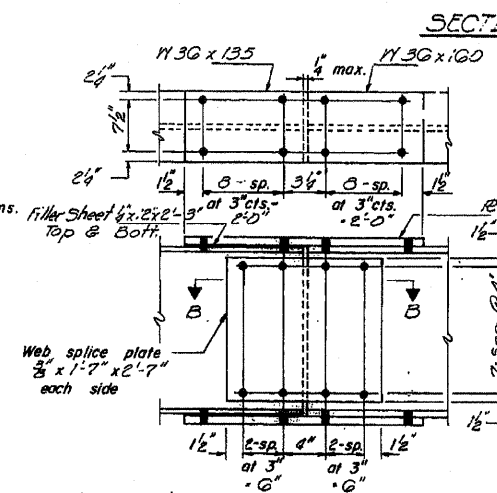
DIAPHRAGM D1 & D2

D₁ - 35 Required
D₂ - 55 Req'd.

Note: Hardened washers shall be required over 1/2" holes in angles.

DESIGNED J. F. KOEHLER
CHECKED John A. Mow
DRAWN J. SCHWELLER

EXAMINED Carl E. Thompson
PASSED
APPROVED

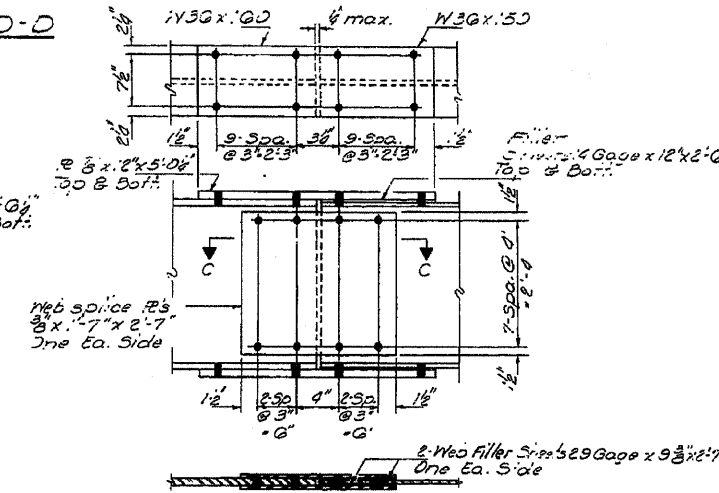


SECTION B-B

SPLICES #1 & #4 (Use 3/4" H.S. Bolts)

2- Web Filler Strips 23 Gauge 3/8" x 2-7" One ea. Side

SECTION C-C



SECTION C-C

SPLICES #2 & #3 (Use 3/4" H.S. Bolts)

STRUCTURAL STEEL
F.A. RT-18 SEC. 106 BR
CARROLL COUNTY
STA. 54+77.0

FOR INFORMATION ONLY