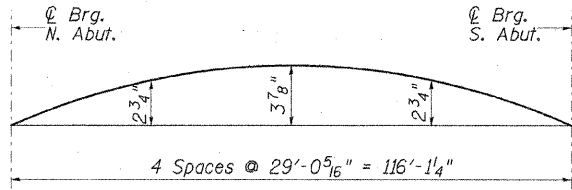


FRAMING PLAN

* Provide Detail "A" Sheet 13 of 18 during Stage I & Stage II deck pours.

TOP OF WEB ELEVATIONS FOR FABRICATION ONLY

Girder Location	Girder 1	Girder 2	Girder 3
@ N. Abut.	558.34	558.49	558.60
@ S. Abut.	558.50	558.63	558.72
Girder Location	Girder 4	Girder 5	Girder 6
@ N. Abut.	558.71	558.81	558.93
@ S. Abut.	558.72	558.62	558.54



CAMBER DIAGRAM
Girders 1 thru 6

INTERIOR GIRDER MOMENT TABLE

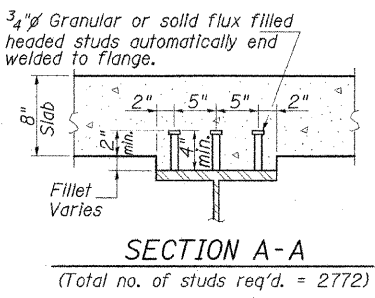
	0.5 Span
I_s	(in ⁴) 41,197
$I_c(n)$	(in ⁴) 105,626
$I_c(3n)$	(in ⁴) 74,019
S_s	(in ³) 1604
$S_c(n)$	(in ³) 2238
$S_c(3n)$	(in ³) 2019
DC1	(k/ft) 1,028
M _{DC1}	(k) 1739
DC2	(k/ft) 0,140
M _{DC2}	(k) 236
DW	(k/ft) 0,367
M _{DW}	(k) 618
M _{ε + Imp}	(k) 2039
M _u (Strength I)	(k) 6964
φ _r M _n	(k) 10,490
f _s DC1	(ksi) 13,01
f _s DC2	(ksi) 1,40
f _s DW	(ksi) 3,67
f _s 1.3(ε+I)	(ksi) 14,21
f _s (Service II)	(ksi) 32,29
f _s (Total)(Strength I)	(ksi)
V _r	(k) 43,1

INTERIOR GIRDER REACTION TABLE
HL93 Loading

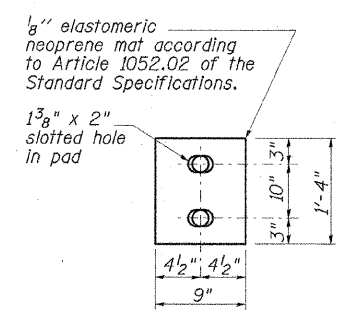
	N. Abut. & S. Abut.
R _{DC1}	(k) 59,5
R _{DC2}	(k) 29,4
R _{DW}	(k) 87,2
R _{ε + Imp}	(k) 18,4
R _{Total}	(k) 194,5

NOTES:

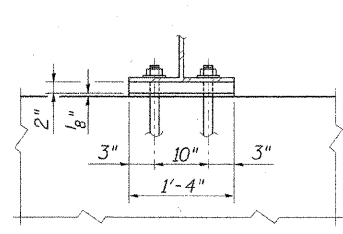
- I_s, S_s : Non-composite moment of inertia and section modulus of the steel section used for computing f_s (Total-Strength I, and Service II) due to non-composite dead loads (in⁴ and in³).
- $I_c(n), S_c(n)$: Composite moment of inertia and section modulus of the steel and deck based upon the modular ratio, "n", used for computing f_s (Total-Strength I, and Service II) due to short-term composite live loads (in⁴ and in³).
- $I_c(3n), S_c(3n)$: Composite moment of inertia and section modulus of the steel and deck based upon 3 times the modular ratio, "3n", used for computing f_s (Total-Strength I, and Service II) due to long-term composite (superimposed) dead loads (in⁴ and in³).
- DC1: Un-factored non-composite dead load (kips/ft.).
- M_{DC1}: Un-factored moment due to non-composite dead load (kip-ft.).
- DC2: Un-factored long-term composite (superimposed excluding future wearing surface) dead load (kips/ft.).
- M_{DC2}: Un-factored moment due to long-term composite (superimposed excluding future wearing surface) dead load (kip-ft.).
- DW: Un-factored long-term composite (superimposed future wearing surface only) dead load (kips/ft.).
- M_{DW}: Un-factored moment due to long-term composite (superimposed future wearing surface only) dead load (kip-ft.).
- M_{ε + Imp}: Un-factored live load moment plus dynamic load allowance (Impact) (kip-ft.).
- M_u (Strength I): Factored design moment (kip-ft.).
- φ_rM_n: Compact composite positive moment capacity computed according to Article 6.10.7.1 (kip-ft.).
- f_s (Service II): Sum of stresses as computed from the moments below (ksi).
- f_s (Total)(Strength I): Sum of stresses as computed from the moments below on non-compact section (ksi).
- V_r: Factored shear range computed according to Article 6.10.10.



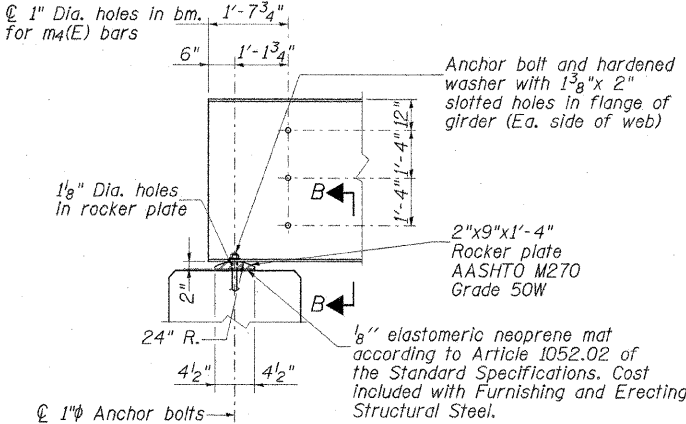
SECTION A-A
(Total no. of studs req'd. = 2772)



PLAN - ELASTOMERIC NEOPRENE MAT (ABUT.)
(12 Required)



SECTION B-B



END OF GIRDER ELEVATION

NOTES:

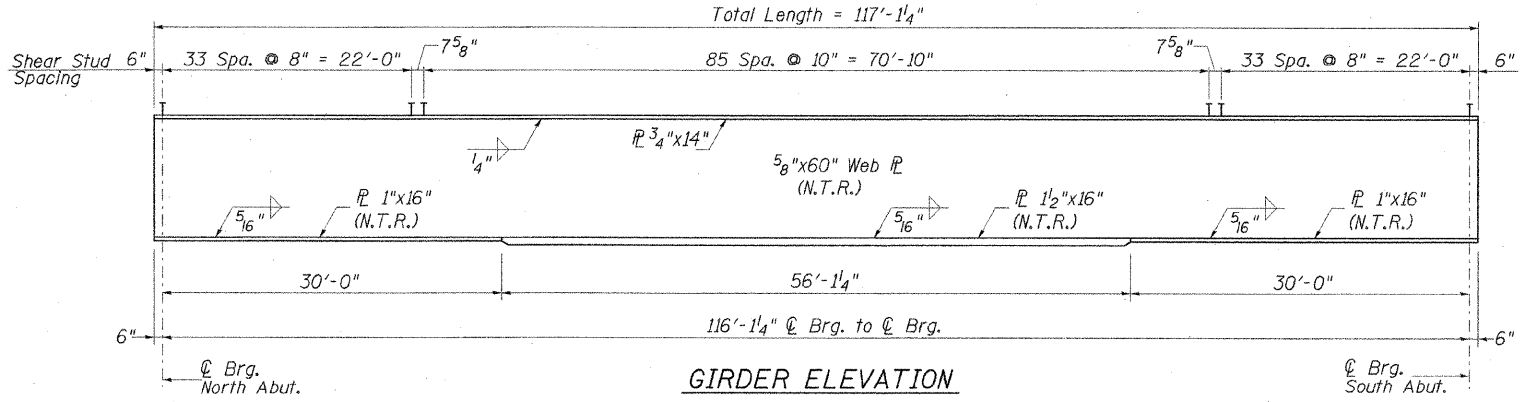
- Anchor bolts shall be ASTM F1554 all-thread (or an Engineer-approved alternate material) of the grade and diameter specified. ASTM A307 Grade C anchor bolts may be used in lieu of ASTM F1554 Grade 36 (Fy=36ksi). The corresponding specified grade of AASHTO M314 anchor bolts may be used in lieu of ASTM F1554.
- Anchor bolts may be either cast in place or installed in holes drilled after the supported member is in place.
- Drilled and set anchor bolts shall be installed according to Article 5.21.06 of the Standard Specifications.

BILL OF MATERIAL

ITEM	UNIT	TOTAL
Anchor Bolts, 1"	Each	24

NOTES:

- All steel for flanges, webs, cross frames, connection plates, and bearings shall be AASHTO M270 Grade 50W.
- Load carrying components designated "NTR" shall conform to the Supplemental Requirements for Notch Toughness, Zone 2.



GIRDER ELEVATION

REVISIONS	
NAME	DATE

CMT
CRAWFORD MURPHY & TILLY, INC.
CONSULTING ENGINEERS
SPRINGFIELD, IL ■ AURORA, IL ■ ST. LOUIS, MO
ROCKFORD, IL ■ PEORIA, IL ■ CHICAGO, IL

ILLINOIS DEPARTMENT OF TRANSPORTATION
FRAMING PLAN & DETAILS
F.A.P. ROUTE 726 (IL. RTE. 37)
ILLINOIS ROUTE 37 OVER
LITTLE SALINE CREEK
SECTION 113B-2 STA. 531+81.00
STR. NO. 100-0091 - WILLIAMSON COUNTY
SCALE: NONE DRAWN BY: GLD
DATE: 12/14/07 CHECKED BY: WLB

L:\DOT\06066601\SNL\000091\Drawn\Sheets\FRAMING.dgn 12/5/2007