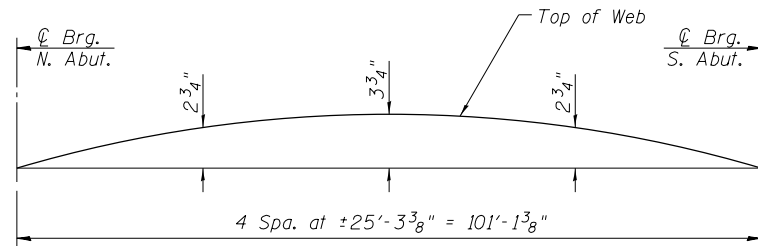


INTERIOR GIRDER MOMENT TABLE		
0.5 Span 1		
I_s	(in ⁴)	25,295
$I_c(n)$	(in ⁴)	53,804
$I_c(3n)$	(in ⁴)	40,257
S_s	(in ³)	1,076
$S_c(n)$	(in ³)	1,377
$S_c(3n)$	(in ³)	1,270
DC1	(k/')	0.935
M_{DC1}	(k)	1,192
DC2	(k/')	0.150
M_{DC2}	(k)	191
DW	(k/')	0.327
M_{DW}	(k)	417
$M_{\xi} \cdot IM$	(k)	1,574
M_u (Strength I)	(k)	5,109
$\phi_r M_n$	(k)	6,574
f_s DC1	(ksi)	13.3
f_s DC2	(ksi)	1.8
f_s DW	(ksi)	3.9
f_s 1.3(ξ +IM)	(ksi)	17.8
f_s (Service II)	(ksi)	36.8
V_r	(k)	49.0

* Compact sections

INTERIOR GIRDER REACTION TABLE		
		Abutment
R_{DC1}	(k)	48.0
R_{DC2}	(k)	7.6
R_{DW}	(k)	16.5
$R_{\xi} \cdot IM$	(k)	94.5
R_{Total}	(k)	166.6

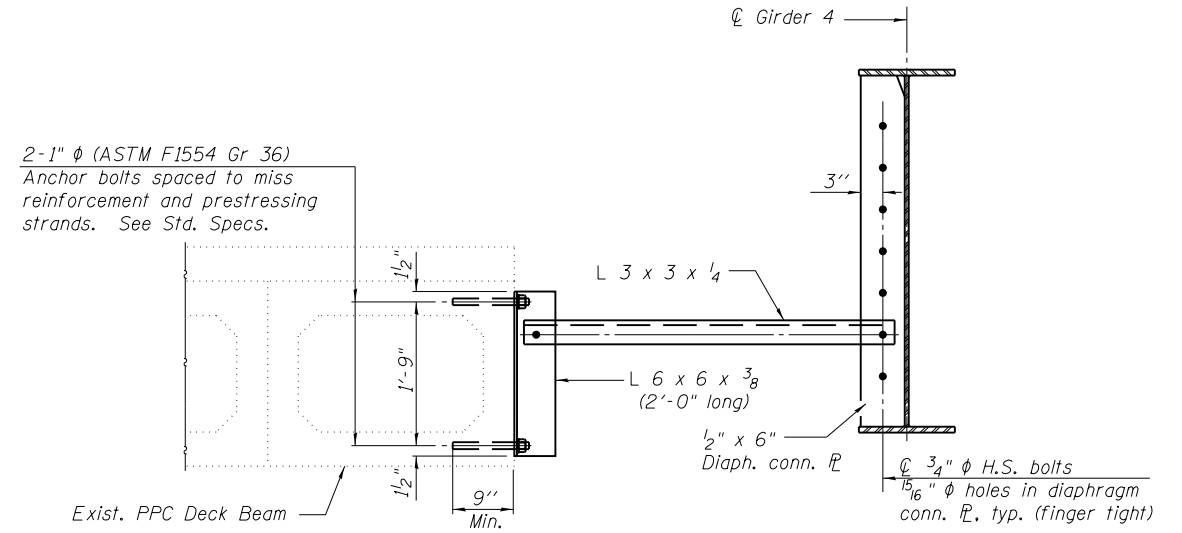


CAMBER DIAGRAM

- 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.).
- $M_{\xi} \cdot IM$: Un-factored live load moment plus dynamic load allowance (impact) (kip-ft.).
- M_u (Strength I): Factored design moment (kip-ft.).
 $1.25 (M_{DC1} + M_{DC2}) + 1.5 M_{DW} + 1.75 M_{\xi} \cdot IM$
- $\phi_r M_n$: 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).
 $M_{DC1} + M_{DC2} + M_{DW} + 1.3 M_{\xi} \cdot IM$
- V_r : Maximum factored shear range in composite portion of span computed according to Article 6.10.10.

① TOP OF WEB ELEVATIONS		
Girder No.	℄ Brq. N. Abut.	℄ Brq. S. Abut.
1	666.071	666.017
2	666.187	666.155
3	666.279	666.268
4	666.268	666.279
5	666.155	666.187
6	666.017	666.071

① For fabrication only.



TEMPORARY BRACING FOR STAGE I CONSTRUCTION

(3 Required)

The horizontal dimension between the holes in the diaphragm, connection plate, and the L 6 x 6 shall be measured in the field. The holes in the L 3 x 3 shall be field drilled at this dimension. Cost included with Furnishing & Erecting Structural Steel.

FILE NAME =	USER NAME =	DESIGNED RJP	REVISED -
		CHECKED ADL	REVISED -
	PLOT SCALE =	DRAWN RJP	REVISED -
	PLOT DATE =	CHECKED ADL	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

GIRDER DETAILS
STRUCTURE NO. 034-0528

SHEET NO. 16 OF 23 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
685	(117,118)RS-4,119RS-1; 118B-1	HANCOCK	101	58
CONTRACT NO. 72B05				
ILLINOIS FED. AID PROJECT				