TOP OF WEB ELEVATIONS

(for fabrication only)

Location	Girder 1	Girder 2	Girder 3	Girder 4	Girder 5	Girder 6
℄ N. Abut.	361.07	361.18	361.27	361.27	361.18	361.07
℄ S. Abut.	362.67	362.77	362.87	362.87	362.77	362.67

INTERIOR GIRDER MOMENT TABLE		
		0.5 Sp. 1
I_s	(in^4)	15174
$I_c(n)$	(in^4)	37961
$I_c(3n)$	(in^4)	27396
S_s	(in^3)	802
$S_c(n)$	(in^3)	1067
$S_c(3n)$	(in^3)	981
DC1	(k/')	0.79
M_{DC1}	('k)	845
DC2	(k/')	0.15
M_{DC2}	('k)	160
DW	(k/')	0.27
M_{DW}	('k)	289
M_{L+IM}	('k)	1296
M_u (Strength I)	('k)	3958
$\phi_f M_n$	('k)	5146
f_s DC1	(ksi)	12.6
f_s DC2	(ksi)	2.0
f_s DW	(ksi)	3.5
f_s (L+IM)	(ksi)	14.6
f_s (Service II)	(ksi)	37.1
$0.95R_hF_{yf}$	(ksi)	47.5
Vf	(k)	24.7

INTERIOR GIRDER REACTION TABLE		
		Abutment
R_{DC1}	(k)	36.5
R_{DC2}	(k)	6.9
R_{DW}	(k)	12.5
R_{L+IM}	(k)	76.7
R_{Total}	(k)	132.6

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 ($in.^4$ and $in.^3$).

$I_c(n)$, $S_c(n)$: 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) in uncracked sections, due to short-term composite live loads ($in.^4$ and $in.^3$).

$I_c(3n)$, $S_c(3n)$: 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) in uncracked sections, due to long-term composite (superimposed) dead loads ($in.^4$ and $in.^3$).

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_{L+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_{L+IM}

$\phi_f M_n$: Compact composite positive moment capacity computed according to Article 6.10.7.1 (kip-ft.).

f_s DC1: Un-factored stress at edge of flange for controlling steel flange due to vertical non-composite dead loads as calculated below (ksi).
M_{DC1} / S_{nc}

f_s DC2: Un-factored stress at edge of flange for controlling steel flange due to vertical composite dead loads as calculated below (ksi).
M_{DC2} / $S_c(3n)$ or M_{DC2} / $S_c(cr)$ as applicable.

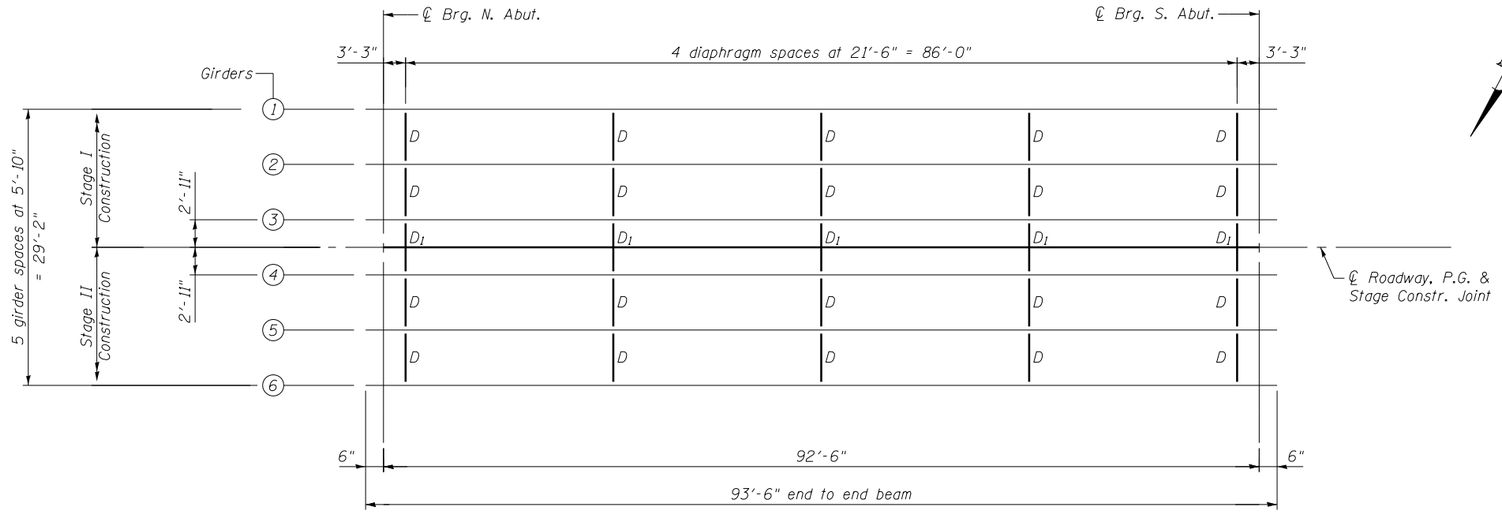
f_s DW: Un-factored stress at edge of flange for controlling steel flange due to vertical composite future wearing surface loads as calculated below (ksi).
M_{DW} / $S_c(3n)$ or M_{DW} / $S_c(cr)$ as applicable.

f_s (L+IM): Un-factored stress at edge of flange for controlling steel flange due to vertical composite live plus impact loads as calculated below (ksi).
M_{L+IM} / $S_c(n)$ or M_{L+IM} / $S_c(cr)$ as applicable.

f_s (Service II): Sum of stresses as computed below (ksi).
f_{sDC1} + f_{sDC2} + f_{sDW} + 1.3 f_s (L + IM)

$0.95R_hF_yf$: Composite stress capacity for Service II loading according to Article 6.10.4.2 (ksi).

V_r: Maximum factored shear range in composite portion of span computed according to Article 6.10.10.



PLAN

See Sheet 15 of 20 for Structural Steel Details

Coombe-Bloxdorf P.C.
-CIVIL ENGINEERS-
-STRUCTURAL ENGINEERS-
-LAND SURVEYORS-
Design Firm License No. 184-002703

FILE NAME = c:\pw_work\pwidot\lavenderba\d0293530\076030-78165-014-framing-det.dgn	USER NAME = $USER$	DESIGNED - CME	REVISED -
		CHECKED - MCB	REVISED -
	PLOT SCALE = 16.0000174 '/ in.	DRAWN - CFC/MML	REVISED -
CB PROJECT NO 08056-14	PLOT DATE = 1/23/2012	CHECKED - CME	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

FRAMING PLAN
STRUCTURE NO. 076-0030
SHEET NO. 14 OF 20 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
885	6B-3	POPE	41	35
		CONTRACT NO. 78165		
	ILLINOIS FED. AID PROJECT			