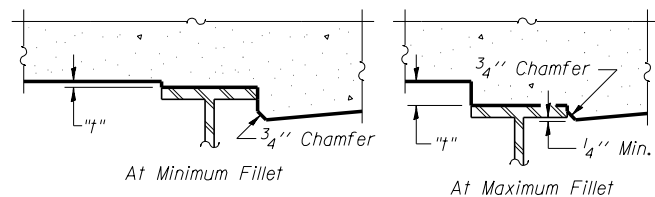


DEAD LOAD DEFLECTION DIAGRAM

(Includes weight of concrete only.)

Girder	8A	8B	8C	9A	9B	9C	10A	10B	10C	11A	11B	11C	12A	12B	12C
E1	7/8"	1/8"	5/8"	1/8"	3/8"	1/8"	1/2"	3/4"	1/2"	1/8"	1/4"	0"	7/8"	1/2"	1/4"
E2										0"	0"	-1/8"	7/8"	1 5/8"	1 1/4"
E3	3/4"	7/8"	1/2"	0"	1/4"	1/8"	3/8"	5/8"	3/8"	0"	1/8"	-1/8"	3/4"	1 3/8"	1 1/8"
E4										0"	1/8"	0"	5/8"	1 1/4"	1"
E5										0"	1/8"	0"	5/8"	1 1/4"	1"
E6										0"	1/8"	0"	5/8"	1 1/4"	1"
E7	7/8"	1/8"	5/8"	1/8"	3/8"	1/8"	1/2"	3/4"	1/2"	1/8"	1/4"	0"	3/4"	1 3/8"	1 1/8"

Note:
The above deflections are not to be used in the field if the engineer is working from the grade elevations adjusted for dead load deflections as shown on SD27 - SD29.



To determine "t": Elevations of the top flanges of the beams shall be taken at intervals shown herein. These elevations subtracted from the "Theoretical Grade Elevations Adjusted for Dead Load Deflection" shown herein, minus slab thickness, equals the fillet heights "t" above top flange of beams.

FILLET HEIGHTS

BEAM E1

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
CL. PIER 11	59+24.75	-28.00	628.46	628.46
CL. BRG. PIER 11N	59+25.50	-28.00	628.47	628.47
8A	59+35.50	-28.00	628.62	628.66
8B	59+45.50	-28.00	628.77	628.85
8C	59+55.50	-28.00	628.91	629.01
8D	59+65.50	-28.00	629.06	629.16
8E	59+75.50	-28.00	629.21	629.29
8F	59+85.50	-28.00	629.36	629.41
8G	59+95.50	-28.00	629.51	629.52
CL. BRG. PIER 12	60+02.50	-28.00	629.61	629.61
9A	60+12.50	-28.00	629.76	629.76
9B	60+22.50	-28.00	629.91	629.92
9C	60+32.50	-28.00	630.06	630.08
9D	60+42.50	-28.00	630.21	630.24
9E	60+52.50	-28.00	630.36	630.38
9F	60+62.50	-28.00	630.51	630.52
9G	60+72.50	-28.00	630.66	630.66
CL. BRG. PIER 13	60+79.50	-28.00	630.76	630.76
10A	60+89.50	-28.00	630.91	630.93
10B	60+99.50	-28.00	631.06	631.10
10C	61+09.50	-28.00	631.21	631.27
10D	61+19.50	-28.00	631.36	631.42
10E	61+29.50	-28.00	631.50	631.56
10F	61+39.50	-28.00	631.65	631.69
10G	61+49.50	-28.00	631.80	631.81
CL. BRG. Pier 14	61+56.50	-28.00	631.91	631.91
11A	61+66.50	-28.00	632.05	632.05
11B	61+76.50	-28.00	632.20	632.21
11C	61+86.50	-28.00	632.35	632.37
11D	61+96.50	-28.00	632.50	632.52
11E	62+06.50	-28.00	632.65	632.66
11F	62+16.50	-28.16	632.80	632.79
11G	62+26.50	-28.40	632.94	632.93
CL BRG. Pier 15	62+33.50	-28.56	633.04	633.04
12A	62+43.50	-28.79	633.18	633.21
12B	62+53.49	-29.03	633.33	633.39
12C	62+63.49	-29.26	633.47	633.57
12D	62+73.49	-29.49	633.62	633.74
12E	62+83.49	-29.72	633.76	633.89
12F	62+93.48	-29.96	633.91	634.02
12G	63+03.48	-30.19	634.05	634.14
12H	63+13.48	-30.42	634.19	634.24
CL. BRG. Pier 16S	63+21.33	-30.60	634.31	634.31
CL PIER 16	63+22.09	-30.62	634.32	634.32

BEAM E2

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
CL. PIER 11	59+24.75	-20.67	628.60	628.60
CL. BRG. PIER 11N	59+25.50	-20.67	628.61	628.61
8A	59+35.50	-20.67	628.76	628.80
8B	59+45.50	-20.67	628.91	628.98
8C	59+55.50	-20.67	629.06	629.14
8D	59+65.50	-20.67	629.21	629.29
8E	59+75.50	-20.67	629.36	629.42
8F	59+85.50	-20.67	629.51	629.55
8G	59+95.50	-20.67	629.66	629.67
CL. BRG. PIER 12	60+02.50	-20.67	629.76	629.76
9A	60+12.50	-20.67	629.91	629.91
9B	60+22.50	-20.67	630.06	630.06
9C	60+32.50	-20.67	630.21	630.22
9D	60+42.50	-20.67	630.36	630.38
9E	60+52.50	-20.67	630.50	630.52
9F	60+62.50	-20.67	630.65	630.66
9G	60+72.50	-20.67	630.80	630.80
CL. BRG. PIER 13	60+79.50	-20.67	630.91	630.91
10A	60+89.50	-20.67	631.06	631.07
10B	60+99.50	-20.67	631.20	631.24
10C	61+09.50	-20.67	631.35	631.40
10D	61+19.50	-20.67	631.50	631.56
10E	61+29.50	-20.67	631.65	631.70
10F	61+39.50	-20.67	631.80	631.83
10G	61+49.50	-20.67	631.95	631.96
CL. BRG. Pier 14	61+56.50	-20.67	632.05	632.05
11A	61+66.50	-20.67	632.20	632.20
11B	61+76.50	-20.67	632.35	632.35
11C	61+86.50	-20.67	632.50	632.50
11D	61+96.50	-20.67	632.65	632.65
11E	62+06.50	-20.67	632.80	632.79
11F	62+16.50	-20.75	632.94	632.93
11G	62+26.50	-20.87	633.09	633.08
CL BRG. Pier 15	62+33.50	-20.95	633.19	633.19
12A	62+43.50	-21.07	633.34	633.37
12B	62+53.50	-21.18	633.49	633.55
12C	62+63.50	-21.30	633.63	633.74
12D	62+73.50	-21.42	633.78	633.91
12E	62+83.50	-21.54	633.93	634.06
12F	62+93.50	-21.65	634.07	634.19
12G	63+03.50	-21.77	634.22	634.31
12H	63+13.49	-21.89	634.36	634.40
CL. BRG. Pier 16S	63+20.41	-21.97	634.47	634.47
CL PIER 16	63+21.16	-21.98	634.48	634.48

Note:
Offset measured perpendicular to SB IL-171

FILE NAME =	USER NAME = ksnider	DESIGNED - DTS	REVISED -
		CHECKED - AJK	REVISED -
		DRAWN - KMS	REVISED -
		CHECKED - AJK	REVISED -

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
372	2013-038B-R	COOK	821	402
CONTRACT NO. 60J16			ILLINOIS FED. AID PROJECT	

Y:\chicago\100005\100093\Eng_Docs_Phase_1\1\SN_016-2456-2457-1st_Ave_over_Plaines_River_Valley\Final\0162457_TOS_Elev_Unit_E.1_of_3.dgn 3:41:28 PM 8/6/2014