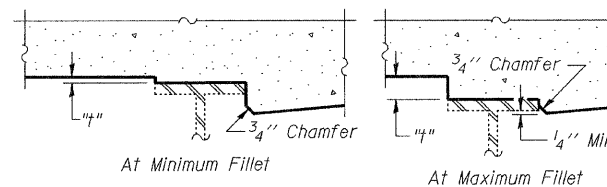
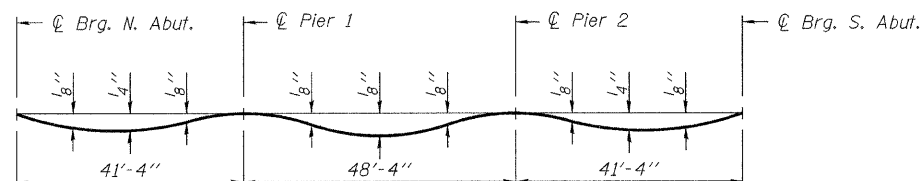


STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION



To determine "f": After all structural steel has been erected, elevations of the top flanges of the beams shall be taken at intervals shown on sheet 5 of 27. These elevations subtracted from the "Theoretical Grade Elevations Adjusted for Dead Load Deflection" shown below and on sheet 6 of 27, minus slab thickness, equals the fillet heights "f" above top flange of beams.

FILLET HEIGHTS



DEAD LOAD DEFLECTION DIAGRAM

(Includes weight of concrete only.)

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 below and on sheet 6 of 27.

BEAM 4

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. N. Abut.	1629+47.94	-3.73	809.15	809.15
⊕ Brg. N. Abut.	1629+50.94	-3.74	809.18	809.18
A	1629+60.94	-3.77	809.26	809.28
B	1629+70.94	-3.79	809.35	809.36
C	1629+80.94	-3.81	809.43	809.44
⊕ Pier 1	1629+92.28	-3.82	809.53	809.53
D	1630+02.28	-3.83	809.61	809.62
E	1630+12.28	-3.83	809.70	809.71
F	1630+22.28	-3.83	809.78	809.79
G	1630+32.29	-3.83	809.87	809.87
⊕ Pier 2	1630+40.62	-3.82	809.94	809.94
H	1630+50.62	-3.81	810.02	810.03
I	1630+60.62	-3.79	810.11	810.13
J	1630+70.63	-3.77	810.19	810.21
⊕ Brg. S. Abut.	1630+81.96	-3.74	810.29	810.29
Bk. S. Abut.	1630+84.96	-3.73	810.32	810.32

BEAM 5

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. N. Abut.	1629+47.92	-10.31	809.05	809.05
⊕ Brg. N. Abut.	1629+50.92	-10.32	809.07	809.07
A	1629+60.92	-10.35	809.16	809.17
B	1629+70.93	-10.37	809.24	809.26
C	1629+80.93	-10.39	809.33	809.34
⊕ Pier 1	1629+92.27	-10.40	809.42	809.42
D	1630+02.28	-10.41	809.51	809.52
E	1630+12.28	-10.42	809.59	809.61
F	1630+22.29	-10.42	809.68	809.69
G	1630+32.29	-10.41	809.76	809.77
⊕ Pier 2	1630+40.63	-10.40	809.84	809.84
H	1630+50.63	-10.39	809.92	809.93
I	1630+60.64	-10.37	810.01	810.02
J	1630+70.64	-10.35	810.09	810.11
⊕ Brg. S. Abut.	1630+81.98	-10.32	810.19	810.19
Bk. S. Abut.	1630+84.98	-10.31	810.21	810.21

BEAM 6

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. N. Abut.	1629+47.90	-16.90	808.92	808.92
⊕ Brg. N. Abut.	1629+50.90	-16.90	808.95	808.95
A	1629+60.91	-16.93	809.03	809.05
B	1629+70.92	-16.95	809.12	809.14
C	1629+80.92	-16.97	809.20	809.21
⊕ Pier 1	1629+92.26	-16.99	809.30	809.30
D	1630+02.27	-17.00	809.39	809.39
E	1630+12.28	-17.00	809.47	809.48
F	1630+22.29	-17.00	809.56	809.57
G	1630+32.30	-16.99	809.64	809.65
⊕ Pier 2	1630+40.63	-16.99	809.71	809.71
H	1630+50.64	-16.97	809.80	809.81
I	1630+60.65	-16.96	809.88	809.90
J	1630+70.66	-16.93	809.97	809.98
⊕ Brg. S. Abut.	1630+82.00	-16.90	810.07	810.07
Bk. S. Abut.	1630+85.00	-16.89	810.09	810.09

BEAM 7

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. N. Abut.	1629+47.88	-23.48	808.79	808.79
⊕ Brg. N. Abut.	1629+50.88	-23.49	808.81	808.81
A	1629+60.89	-23.51	808.90	808.91
B	1629+70.90	-23.54	808.98	809.00
C	1629+80.91	-23.56	809.07	809.08
⊕ Pier 1	1629+92.26	-23.57	809.16	809.16
D	1630+02.27	-23.58	809.25	809.25
E	1630+12.28	-23.58	809.33	809.35
F	1630+22.29	-23.58	809.42	809.43
G	1630+32.30	-23.58	809.50	809.51
⊕ Pier 2	1630+40.64	-23.57	809.57	809.57
H	1630+50.65	-23.56	809.66	809.67
I	1630+60.66	-23.54	809.75	809.76
J	1630+70.67	-23.52	809.83	809.85
⊕ Brg. S. Abut.	1630+82.02	-23.49	809.93	809.93
Bk. S. Abut.	1630+85.02	-23.48	809.95	809.95

TOP OF SLAB ELEVATIONS  
STRUCTURE NO. 037-0018 (N.B.)

DESIGNED	Michael D. Rolape
CHECKED	Nicholas R. Barnett
DRAWN	Michael B. Mossman
CHECKED	M.D.R./N.R.B./G.R.A.

EXAMINED	Thomas J. Demagalki	September 29, 2009
PASSED	Ralph E. Anderson	

SHEET NO. 7	F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	74	37-4HB-1	HENRY	148	100
27 SHEETS	CONTRACT NO. 64264			ILLINOIS FED. AID PROJECT	