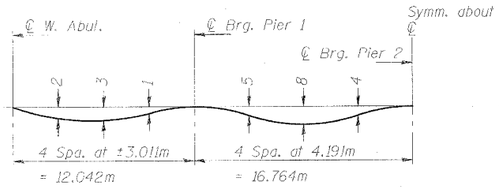
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.P. Rt. 305	28 R HB F	McHenry	13	9
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		

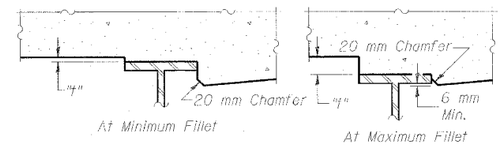
CONTRACT NUMBER: 62856



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.
All dimensions are in millimeters (mm) except as noted.



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

FILLET HEIGHTS

Beam 3

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. W. Abut.	29+970.878	-1.747	290.613	290.613
CL W. Abut.	29+971.260	-1.747	290.617	290.617
A	29+974.260	-1.747	290.647	290.649
B	29+977.260	-1.747	290.672	290.675
C	29+980.260	-1.747	290.695	290.696
CL Brg. Pier 1	29+983.302	-1.747	290.714	290.714
D	29+986.302	-1.747	290.729	290.732
E	29+989.302	-1.747	290.741	290.748
F	29+992.302	-1.747	290.749	290.757
G	29+995.302	-1.747	290.754	290.758
H	29+998.302	-1.747	290.755	290.755
CL Brg. Pier 2	30+000.066	-1.747	290.754	290.754
I	30+003.066	-1.747	290.749	290.751
J	30+006.066	-1.747	290.741	290.748
K	30+009.066	-1.747	290.730	290.738
L	30+012.066	-1.747	290.715	290.720
M	30+015.066	-1.747	290.696	290.698
CL Brg. Pier 3	30+016.830	-1.747	290.684	290.684
N	30+019.830	-1.747	290.659	290.660
O	30+022.830	-1.747	290.632	290.635
P	30+025.830	-1.747	290.600	290.603
CL E. Abut.	30+028.872	-1.747	290.565	290.565
Bk. E. Abut.	30+029.254	-1.747	290.561	290.561

Long Const Jt

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. W. Abut.	29+970.750	-0.427	290.632	290.632
CL W. Abut.	29+971.132	-0.427	290.636	290.636
A	29+974.132	-0.427	290.665	290.667
B	29+977.132	-0.427	290.691	290.694
C	29+980.132	-0.427	290.714	290.715
CL Brg. Pier 1	29+983.174	-0.427	290.733	290.733
D	29-986.174	-0.427	290.748	290.751
E	29+989.174	-0.427	290.760	290.767
F	29+992.174	-0.427	290.768	290.776
G	29+995.174	-0.427	290.773	290.778
H	29+998.174	-0.427	290.774	290.775
CL Brg. Pier 2	29+999.938	-0.427	290.774	290.774
I	30+002.938	-0.427	290.769	290.771
J	30+005.938	-0.427	290.761	290.768
K	30+008.938	-0.427	290.750	290.758
L	30+011.938	-0.427	290.735	290.741
M	30+014.938	-0.427	290.717	290.718
CL Brg. Pier 3	30+016.702	-0.427	290.704	290.704
N	30+019.702	-0.427	290.680	290.681
O	30+022.702	-0.427	290.653	290.656
P	30+025.702	-0.427	290.622	290.624
CL E. Abut.	30+028.744	-0.427	290.587	290.587
Bk. E. Abut.	30+029.126	-0.427	290.582	290.582

PGL

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. W. Abut.	29+970.709	0	290.637	290.637
CL W. Abut.	29+971.091	0	290.641	290.641
A	29+974.091	0	290.671	290.673
B	29+977.091	0	290.697	290.700
C	29+980.091	0	290.720	290.721
CL Brg. Pier 1	29+983.133	0	290.739	290.739
D	29+986.133	0	290.754	290.758
E	29+989.133	0	290.766	290.773
F	29+992.133	0	290.775	290.782
G	29+995.133	0	290.779	290.784
H	29+998.133	0	290.781	290.782
CL Brg. Pier 2	29+999.897	0	290.780	290.780
I	30+002.897	0	290.776	290.778
J	30+005.897	0	290.768	290.774
K	30+008.897	0	290.757	290.765
L	30+011.897	0	290.742	290.747
M	30+014.897	0	290.723	290.725
CL Brg. Pier 3	30+016.661	0	290.711	290.711
N	30+019.661	0	290.687	290.688
O	30+022.661	0	290.659	290.662
P	30+025.661	0	290.628	290.630
CL E. Abut.	30+028.703	0	290.593	290.593
Bk. E. Abut.	30+029.085	0	290.589	290.589

FOR INFORMATION ONLY
NOT PART OF THIS CONTRACT

TOP OF SLAB ELEVATIONS - 2

Date
Revisions

Designed MR
Drawn R.VIERAR
Checked KSM
Approved KSM

SOUTH ST. OVER US 14
FAP ROUTE NO. 305
SECTION 28 R-HB-F
STATION 29+999.897
COUNTY McHENRY
STRUCTURE NO. 056-3015

Sheet No. 9 of 13

HARRY O. HEFTER-ASSOCIATES, INC.
DESIGN AND CONSULTING ENGINEERS
180 North Wabash Ave.
Chicago, Illinois 60601
312/345-6131

File Name:

Job No. 1962

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