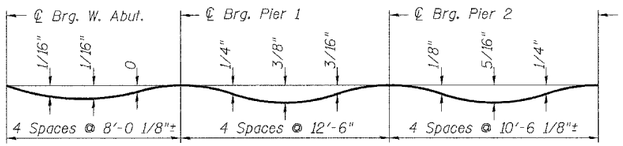
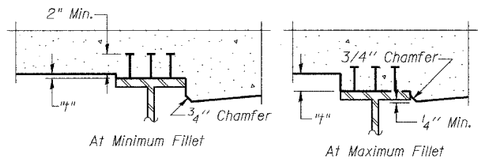


DEAD LOAD DEFLECTION DIAGRAM

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.

SCREED ELEVATION FOR BEAM BM1

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
BKWAB	1510+10.84	14.792	633.6498	633.6498
BRWAB	1510+12.28	14.792	633.6426	633.6426
A	1510+22.28	14.792	633.5926	633.5974
B	1510+32.28	14.792	633.5426	633.5449
PIER1	1510+44.34	14.792	633.4823	633.4823
C	1510+54.34	14.792	633.4323	633.4472
D	1510+64.34	14.792	633.3823	633.4107
E	1510+74.34	14.792	633.3323	633.3591
F	1510+84.34	14.792	633.2823	633.2941
PIER2	1510+94.34	14.792	633.2323	633.2323
G	1511+04.34	14.792	633.1823	633.1927
H	1511+14.34	14.792	633.1323	633.1558
I	1511+24.34	14.792	633.0823	633.1047
BREAB	1511+36.40	14.792	633.0220	633.0220
BKEAB	1511+37.84	14.792	633.0148	633.0148



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

DESIGNED	JDA
CHECKED	JKC
DRAWN	NQ
CHECKED	JDA

SCREED ELEVATION FOR BEAM BM2

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
BKWAB	1510+07.42	8.875	633.7739	633.7739
BRWAB	1510+08.87	8.875	633.7667	633.7667
A	1510+18.87	8.875	633.7167	633.7215
B	1510+28.87	8.875	633.6667	633.6690
PIER1	1510+40.92	8.875	633.6064	633.6064
C	1510+50.92	8.875	633.5564	633.5713
D	1510+60.92	8.875	633.5064	633.5348
E	1510+70.92	8.875	633.4564	633.4832
F	1510+80.92	8.875	633.4064	633.4182
PIER2	1510+90.92	8.875	633.3564	633.3564
G	1511+00.92	8.875	633.3064	633.3168
H	1511+10.92	8.875	633.2564	633.2799
I	1511+20.92	8.875	633.2064	633.2288
BREAB	1511+32.98	8.875	633.1461	633.1461
BKEAB	1511+34.42	8.875	633.1389	633.1389

SCREED ELEVATION FOR BEAM BM3

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
BKWAB	1510+04.01	2.958	633.8840	633.8840
BRWAB	1510+05.45	2.958	633.8768	633.8768
A	1510+15.45	2.958	633.8268	633.8316
B	1510+25.45	2.958	633.7768	633.7791
PIER1	1510+37.51	2.958	633.7165	633.7165
C	1510+47.51	2.958	633.6665	633.6814
D	1510+57.51	2.958	633.6165	633.6449
E	1510+67.51	2.958	633.5665	633.5933
F	1510+77.51	2.958	633.5165	633.5283
PIER2	1510+87.51	2.958	633.4665	633.4665
G	1510+97.51	2.958	633.4165	633.4269
H	1511+07.51	2.958	633.3665	633.3900
I	1511+17.51	2.958	633.3165	633.3389
BREAB	1511+29.56	2.958	633.2562	633.2562
BKEAB	1511+31.01	2.958	633.2490	633.2490

SCREED ELEVATION FOR BEAM PGL

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
BKWAB	1510+02.30	0.000	633.9385	633.9385
BRWAB	1510+03.74	0.000	633.9313	633.9313
A	1510+13.74	0.000	633.8813	633.8861
B	1510+23.74	0.000	633.8313	633.8336
PIER1	1510+35.80	0.000	633.7710	633.7710
C	1510+45.80	0.000	633.7210	633.7359
D	1510+55.80	0.000	633.6710	633.6994
E	1510+65.80	0.000	633.6210	633.6478
F	1510+75.80	0.000	633.5710	633.5828
PIER2	1510+85.80	0.000	633.5210	633.5210
G	1510+95.80	0.000	633.4710	633.4814
H	1511+05.80	0.000	633.4210	633.4445
I	1511+15.80	0.000	633.3710	633.3934
BREAB	1511+27.86	0.000	633.3107	633.3107
BKEAB	1511+29.30	0.000	633.3035	633.3035

SCREED ELEVATION FOR BEAM BM4

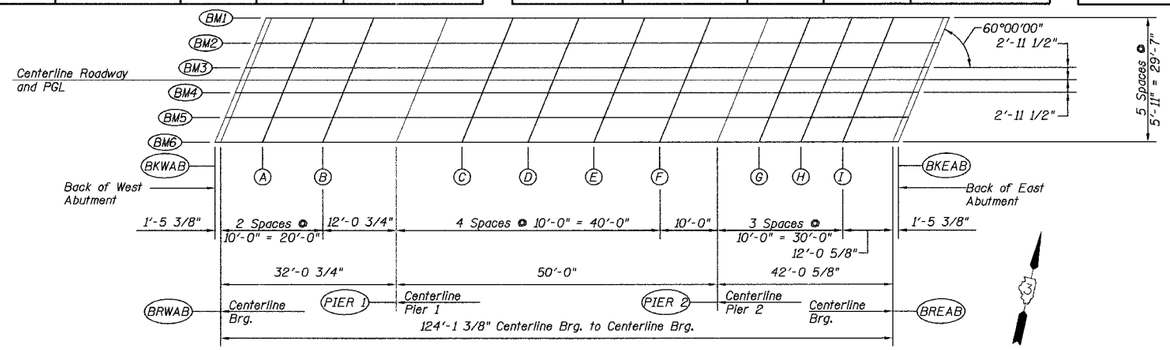
Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
BKWAB	1510+00.59	-2.958	633.9011	633.9011
BRWAB	1510+02.03	-2.958	633.8939	633.8939
A	1510+12.03	-2.958	633.8439	633.8487
B	1510+22.03	-2.958	633.7939	633.7962
PIER1	1510+34.09	-2.958	633.7336	633.7336
C	1510+44.09	-2.958	633.6836	633.6985
D	1510+54.09	-2.958	633.6336	633.6620
E	1510+64.09	-2.958	633.5836	633.6104
F	1510+74.09	-2.958	633.5336	633.5454
PIER2	1510+84.09	-2.958	633.4836	633.4836
G	1510+94.09	-2.958	633.4336	633.4440
H	1511+04.09	-2.958	633.3836	633.4071
I	1511+14.09	-2.958	633.3336	633.3560
BREAB	1511+26.15	-2.958	633.2733	633.2733
BKEAB	1511+27.59	-2.958	633.2661	633.2661

SCREED ELEVATION FOR BEAM BM5

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
BKWAB	1509+97.17	-8.875	633.8251	633.8251
BRWAB	1509+98.62	-8.875	633.8179	633.8179
A	1510+08.62	-8.875	633.7679	633.7727
B	1510+18.62	-8.875	633.7179	633.7202
PIER1	1510+30.67	-8.875	633.6576	633.6576
C	1510+40.67	-8.875	633.6076	633.6225
D	1510+50.67	-8.875	633.5576	633.5860
E	1510+60.67	-8.875	633.5076	633.5344
F	1510+70.67	-8.875	633.4576	633.4694
PIER2	1510+80.67	-8.875	633.4076	633.4076
G	1510+90.67	-8.875	633.3576	633.3680
H	1511+00.67	-8.875	633.3076	633.3311
I	1511+10.67	-8.875	633.2576	633.2800
BREAB	1511+22.73	-8.875	633.1973	633.1973
BKEAB	1511+24.17	-8.875	633.1901	633.1901

SCREED ELEVATION FOR BEAM BM6

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
BKWAB	1509+93.76	-14.792	633.7352	633.7352
BRWAB	1509+95.20	-14.792	633.7280	633.7280
A	1510+05.20	-14.792	633.6780	633.6828
B	1510+15.20	-14.792	633.6280	633.6303
PIER1	1510+27.26	-14.792	633.5677	633.5677
C	1510+37.26	-14.792	633.5177	633.5326
D	1510+47.26	-14.792	633.4677	633.4961
E	1510+57.26	-14.792	633.4177	633.4445
F	1510+67.26	-14.792	633.3677	633.3795
PIER2	1510+77.26	-14.792	633.3177	633.3177
G	1510+87.26	-14.792	633.2677	633.2781
H	1510+97.26	-14.792	633.2177	633.2412
I	1511+07.26	-14.792	633.1677	633.1901
BREAB	1511+19.32	-14.792	633.1074	633.1074
BKEAB	1511+20.76	-14.792	633.1002	633.1002



PLAN

DECK ELEVATIONS
FAS ROUTE 2247 (U.S. 6)
OVER BRUSH CREEK
SECTION 13X-BR-1
BUREAU COUNTY
STA. 1510+65.80
SN 006-0169

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAS 2247	13X-BR-1	BUREAU	51	15
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT-		

SHEET NO. 3
19 SHEETS

Contract #64938

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION