

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

F.A.P. RTE.	SEC.	COUNTY	TOTAL SHEETS	SHEET NO.
592	121-1R, 121HV8	ST. CLAIR	239	140
F.H.W.A. REGION 7		ILLINOIS FED. AID PROJECT		

SHEET NO. 4
SHEETS: 23

BEAM 1

LOCATION	STATION	OFFSET	THEORETICAL GRADE ELEVATIONS	THEORETICAL GRADE ELEVATIONS ADJUSTED FOR DEAD LOAD DEFLECTIONS
Back of West Abutment	5028+78.18	-38.333	442.274	442.274
☉ of West Abutment	5028+79.44	-38.333	442.287	442.287
a	5028+89.44	-38.333	442.377	442.386
b	5028+99.44	-38.333	442.454	442.464
c	5029+09.44	-38.333	442.519	442.524
d	5029+19.44	-38.333	442.572	442.570
☉ of Pier 1	5029+25.94	-38.333	442.600	442.600
e	5029+35.94	-38.333	442.632	442.652
f	5029+45.94	-38.333	442.651	442.698
g	5029+55.94	-38.333	442.658	442.721
h	5029+65.94	-38.333	442.653	442.715
i	5029+75.94	-38.333	442.635	442.680
j	5029+85.94	-38.333	442.604	442.625
☉ of Pier 2	5029+95.69	-38.333	442.562	442.562
k	5030+05.69	-38.333	442.507	442.506
l	5030+15.69	-38.333	442.439	442.447
m	5030+25.69	-38.333	442.359	442.369
n	5030+35.69	-38.333	442.266	442.272
☉ of East Abutment	5030+42.19	-38.333	442.199	442.199
Back of East Abutment	5030+43.45	-38.333	442.186	442.186

BEAM 4

LOCATION	STATION	OFFSET	THEORETICAL GRADE ELEVATIONS	THEORETICAL GRADE ELEVATIONS ADJUSTED FOR DEAD LOAD DEFLECTIONS
Back of West Abutment	5028+80.60	-15.333	442.777	442.777
☉ of West Abutment	5028+81.86	-15.333	442.789	442.789
a	5028+91.86	-15.333	442.876	442.885
b	5029+01.86	-15.333	442.950	442.960
c	5029+11.86	-15.333	443.013	443.017
d	5029+21.86	-15.333	443.062	443.060
☉ of Pier 1	5029+28.36	-15.333	443.088	443.088
e	5029+38.36	-15.333	443.117	443.137
f	5029+48.36	-15.333	443.133	443.180
g	5029+58.36	-15.333	443.137	443.200
h	5029+68.36	-15.333	443.128	443.191
i	5029+78.36	-15.333	443.107	443.153
j	5029+88.36	-15.333	443.074	443.095
☉ of Pier 2	5029+98.11	-15.333	443.029	443.029
k	5030+08.11	-15.333	442.971	442.970
l	5030+18.11	-15.333	442.900	442.908
m	5030+28.11	-15.333	442.817	442.827
n	5030+38.11	-15.333	442.721	442.727
☉ of East Abutment	5030+44.61	-15.333	442.652	442.652
Back of East Abutment	5030+45.87	-15.333	442.638	442.638

BEAM 7

LOCATION	STATION	OFFSET	THEORETICAL GRADE ELEVATIONS	THEORETICAL GRADE ELEVATIONS ADJUSTED FOR DEAD LOAD DEFLECTIONS
Back of West Abutment	5028+83.02	7.667	442.959	442.959
☉ of West Abutment	5028+84.28	7.667	442.971	442.971
a	5028+94.28	7.667	443.055	443.064
b	5029+04.28	7.667	443.126	443.136
c	5029+14.28	7.667	443.185	443.190
d	5029+24.28	7.667	443.232	443.230
☉ of Pier 1	5029+30.78	7.667	443.255	443.255
e	5029+40.78	7.667	443.281	443.302
f	5029+50.78	7.667	443.295	443.342
g	5029+60.78	7.667	443.296	443.358
h	5029+70.78	7.667	443.284	443.347
i	5029+80.78	7.667	443.260	443.306
j	5029+90.78	7.667	443.224	443.244
☉ of Pier 2	5030+00.53	7.667	443.176	443.176
k	5030+10.53	7.667	443.115	443.114
l	5030+20.53	7.667	443.041	443.048
m	5030+30.53	7.667	442.955	442.965
n	5030+40.53	7.667	442.856	442.862
☉ of East Abutment	5030+47.03	7.667	442.785	442.785
Back of East Abutment	5030+48.29	7.667	442.771	442.771

BEAM 2

LOCATION	STATION	OFFSET	THEORETICAL GRADE ELEVATIONS	THEORETICAL GRADE ELEVATIONS ADJUSTED FOR DEAD LOAD DEFLECTIONS
Back of West Abutment	5028+78.99	-30.667	442.442	442.442
☉ of West Abutment	5028+80.25	-30.667	442.454	442.454
a	5028+90.25	-30.667	442.543	442.552
b	5029+00.25	-30.667	442.620	442.630
c	5029+10.25	-30.667	442.684	442.688
d	5029+20.25	-30.667	442.735	442.734
☉ of Pier 1	5029+26.75	-30.667	442.762	442.762
e	5029+36.75	-30.667	442.793	442.814
f	5029+46.75	-30.667	442.812	442.858
g	5029+56.75	-30.667	442.818	442.880
h	5029+66.75	-30.667	442.811	442.874
i	5029+76.75	-30.667	442.792	442.838
j	5029+86.75	-30.667	442.761	442.782
☉ of Pier 2	5029+96.50	-30.667	442.718	442.718
k	5030+06.50	-30.667	442.662	442.662
l	5030+16.50	-30.667	442.593	442.601
m	5030+26.50	-30.667	442.512	442.522
n	5030+36.50	-30.667	442.418	442.424
☉ of East Abutment	5030+43.00	-30.667	442.350	442.350
Back of East Abutment	5030+44.26	-30.667	442.337	442.337

BEAM 5

LOCATION	STATION	OFFSET	THEORETICAL GRADE ELEVATIONS	THEORETICAL GRADE ELEVATIONS ADJUSTED FOR DEAD LOAD DEFLECTIONS
Back of West Abutment	5028+81.40	-7.667	442.944	442.944
☉ of West Abutment	5028+82.66	-7.667	442.956	442.956
a	5028+92.66	-7.667	443.042	443.051
b	5029+02.66	-7.667	443.116	443.126
c	5029+12.66	-7.667	443.177	443.181
d	5029+22.66	-7.667	443.225	443.224
☉ of Pier 1	5029+29.16	-7.667	443.250	443.250
e	5029+39.16	-7.667	443.278	443.299
f	5029+49.16	-7.667	443.294	443.340
g	5029+59.16	-7.667	443.297	443.359
h	5029+69.16	-7.667	443.287	443.349
i	5029+79.16	-7.667	443.265	443.311
j	5029+89.16	-7.667	443.230	443.251
☉ of Pier 2	5029+98.91	-7.667	443.185	443.185
k	5030+08.91	-7.667	443.125	443.125
l	5030+18.91	-7.667	443.054	443.061
m	5030+28.91	-7.667	442.969	442.979
n	5030+38.91	-7.667	442.873	442.873
☉ of East Abutment	5030+45.41	-7.667	442.803	442.803
Back of East Abutment	5030+46.67	-7.667	442.789	442.789

BEAM 8

LOCATION	STATION	OFFSET	THEORETICAL GRADE ELEVATIONS	THEORETICAL GRADE ELEVATIONS ADJUSTED FOR DEAD LOAD DEFLECTIONS
Back of West Abutment	5028+83.82	15.333	442.807	442.807
☉ of West Abutment	5028+85.08	15.333	442.818	442.818
a	5028+95.08	15.333	442.901	442.910
b	5029+05.08	15.333	442.972	442.982
c	5029+15.08	15.333	443.030	443.034
d	5029+25.08	15.333	443.075	443.074
☉ of Pier 1	5029+31.58	15.333	443.098	443.098
e	5029+41.58	15.333	443.123	443.144
f	5029+51.58	15.333	443.136	443.182
g	5029+61.58	15.333	443.136	443.198
h	5029+71.58	15.333	443.123	443.186
i	5029+81.58	15.333	443.098	443.144
j	5029+91.58	15.333	443.060	443.081
☉ of Pier 2	5030+01.33	15.333	443.012	443.012
k	5030+11.33	15.333	442.950	442.949
l	5030+21.33	15.333	442.875	442.882
m	5030+31.33	15.333	442.788	442.798
n	5030+41.33	15.333	442.688	442.694
☉ of East Abutment	5030+47.83	15.333	442.616	442.616
Back of East Abutment	5030+49.09	15.333	442.602	442.602

BEAM 3

LOCATION	STATION	OFFSET	THEORETICAL GRADE ELEVATIONS	THEORETICAL GRADE ELEVATIONS ADJUSTED FOR DEAD LOAD DEFLECTIONS
Back of West Abutment	5028+79.79	-23.000	442.609	442.609
☉ of West Abutment	5028+81.05	-23.000	442.621	442.621
a	5028+91.05	-23.000	442.710	442.719
b	5029+01.05	-23.000	442.785	442.795
c	5029+11.05	-23.000	442.848	442.852
d	5029+21.05	-23.000	442.899	442.897
☉ of Pier 1	5029+27.55	-23.000	442.925	442.925
e	5029+37.55	-23.000	442.955	442.976
f	5029+47.55	-23.000	442.972	443.019
g	5029+57.55	-23.000	442.977	443.040
h	5029+67.55	-23.000	442.970	443.032
i	5029+77.55	-23.000	442.950	442.996
j	5029+87.55	-23.000	442.917	442.938
☉ of Pier 2	5029+97.30	-23.000	442.874	442.874
k	5030+07.30	-23.000	442.816	442.816
l	5030+17.30	-23.000	442.747	442.754
m	5030+27.30	-23.000	442.664	442.674
n	5030+37.30	-23.000	442.570	442.576
☉ of East Abutment	5030+43.80	-23.000	442.501	442.501
Back of East Abutment	5030+45.06	-23.000	442.488	442.488

BEAM 6

LOCATION	STATION	OFFSET	THEORETICAL GRADE ELEVATIONS	THEORETICAL GRADE ELEVATIONS ADJUSTED FOR DEAD LOAD DEFLECTIONS
Back of West Abutment	5028+82.21	0.000	443.111	443.111
☉ of West Abutment	5028+83.47	0.000	443.123	443.123
a	5028+93.47	0.000	443.208	443.217
b	5029+03.47	0.000	443.281	443.291
c	5029+13.47	0.000	443.341	443.345
d	5029+23.47	0.000	443.388	443.387
☉ of Pier 1	5029+29.97	0.000	443.413	443.413
e	5029+39.97	0.000	443.440	443.460
f	5029+49.97	0.000	443.454	443.501
g	5029+59.97	0.000	443.456	443.518
h	5029+69.97	0.000	443.445	443.508
i	5029+79.97	0.000	443.422	443.468
j	5029+89.97	0.000	443.387	443.408
☉ of Pier 2	5029+99.72	0.000	443.340	443.340
k	5030+09.72	0.000	443.280	443.279
l	5030+19.72	0.000	443.207	443.215
m	5030+29.72	0.000	443.122	443.132
n	5030+39.72	0.000	443.024	443.030
☉ of East Abutment	5030+46.22	0.000	442.954	442.954
Back of East Abutment	5030+47.48	0.000	442.940	442.940

DECK ELEVATIONS
 F.A.P. 592 (IL Rte. 157) OVER
 UNION PACIFIC RAILROAD
 SECTION 121-1R, 121HV8
 ST. CLAIR COUNTY
 STATION 5029+64.85
 STRUCTURE NO. 082-0303