

F.A.P. RTE.	SEC.	COUNTY	TOTAL SHEETS	SHEET NO.
592	121-1R, 121HV8	ST. CLAIR	239	141
F.H.W.A. REGION 7		ILLINOIS FED. AID PROJECT		

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BEAM 9

LOCATION	STATION	OFFSET	THEORETICAL GRADE ELEVATIONS	THEORETICAL GRADE ELEVATIONS ADJUSTED FOR DEAD LOAD DEFLECTIONS
Back of West Abutment	5028+84.63	23.000	442.654	442.654
☉ of West Abutment	5028+85.89	23.000	442.666	442.666
a	5028+95.89	23.000	442.748	442.757
b	5029+05.89	23.000	442.817	442.827
c	5029+15.89	23.000	442.874	442.878
d	5029+25.89	23.000	442.919	442.917
☉ of Pier 1	5029+32.39	23.000	442.941	442.941
e	5029+42.39	23.000	442.965	442.966
f	5029+52.39	23.000	442.976	443.023
g	5029+62.39	23.000	442.975	443.038
h	5029+72.39	23.000	442.962	443.024
i	5029+82.39	23.000	442.936	442.982
j	5029+92.39	23.000	442.897	442.918
☉ of Pier 2	5030+02.14	23.000	442.847	442.847
k	5030+12.14	23.000	442.784	442.783
l	5030+22.14	23.000	442.708	442.716
m	5030+32.14	23.000	442.620	442.630
n	5030+42.14	23.000	442.519	442.525
☉ of East Abutment	5030+48.64	23.000	442.447	442.447
Back of East Abutment	5030+49.90	23.000	442.433	442.433

WESTBOUND PROFILE GRADE LINE

LOCATION	STATION	OFFSET	THEORETICAL GRADE ELEVATIONS	THEORETICAL GRADE ELEVATIONS ADJUSTED FOR DEAD LOAD DEFLECTIONS
Back of West Abutment	5028+81.37	-8.000	442.937	442.937
☉ of West Abutment	5028+82.63	-8.000	442.949	442.949
a	5028+92.63	-8.000	443.035	443.044
b	5029+02.63	-8.000	443.108	443.118
c	5029+12.63	-8.000	443.170	443.174
d	5029+22.63	-8.000	443.218	443.217
☉ of Pier 1	5029+29.13	-8.000	443.243	443.243
e	5029+39.13	-8.000	443.271	443.292
f	5029+49.13	-8.000	443.287	443.333
g	5029+59.13	-8.000	443.290	443.352
h	5029+69.13	-8.000	443.280	443.343
i	5029+79.13	-8.000	443.258	443.304
j	5029+89.13	-8.000	443.224	443.244
☉ of Pier 2	5029+98.88	-8.000	443.178	443.178
k	5030+08.88	-8.000	443.119	443.118
l	5030+18.88	-8.000	443.047	443.055
m	5030+28.88	-8.000	442.963	442.973
n	5030+38.88	-8.000	442.866	442.872
☉ of East Abutment	5030+45.38	-8.000	442.797	442.797
Back of East Abutment	5030+46.64	-8.000	442.783	442.783

EASTBOUND PROFILE GRADE LINE

LOCATION	STATION	OFFSET	THEORETICAL GRADE ELEVATIONS	THEORETICAL GRADE ELEVATIONS ADJUSTED FOR DEAD LOAD DEFLECTIONS
Back of West Abutment	5028+83.05	8.000	442.953	442.953
☉ of West Abutment	5028+84.31	8.000	442.964	442.964
a	5028+94.31	8.000	443.048	443.057
b	5029+04.31	8.000	443.120	443.130
c	5029+14.31	8.000	443.179	443.183
d	5029+24.31	8.000	443.225	443.223
☉ of Pier 1	5029+30.81	8.000	443.249	443.249
e	5029+40.81	8.000	443.275	443.295
f	5029+50.81	8.000	443.288	443.335
g	5029+60.81	8.000	443.289	443.351
h	5029+70.81	8.000	443.277	443.340
i	5029+80.81	8.000	443.253	443.299
j	5029+90.81	8.000	443.217	443.237
☉ of Pier 2	5030+00.56	8.000	443.169	443.169
k	5030+10.56	8.000	443.108	443.107
l	5030+20.56	8.000	443.034	443.041
m	5030+30.56	8.000	442.947	442.957
n	5030+40.56	8.000	442.849	442.855
☉ of East Abutment	5030+47.06	8.000	442.778	442.778
Back of East Abutment	5030+48.32	8.000	442.763	442.763

BEAM 10

LOCATION	STATION	OFFSET	THEORETICAL GRADE ELEVATIONS	THEORETICAL GRADE ELEVATIONS ADJUSTED FOR DEAD LOAD DEFLECTIONS
Back of West Abutment	5028+85.43	30.667	442.502	442.502
☉ of West Abutment	5028+86.69	30.667	442.513	442.513
a	5028+96.69	30.667	442.594	442.603
b	5029+06.69	30.667	442.663	442.673
c	5029+16.69	30.667	442.719	442.723
d	5029+26.69	30.667	442.762	442.760
☉ of Pier 1	5029+33.19	30.667	442.784	442.784
e	5029+43.19	30.667	442.807	442.827
f	5029+53.19	30.667	442.817	442.864
g	5029+63.19	30.667	442.815	442.878
h	5029+73.19	30.667	442.800	442.863
i	5029+83.19	30.667	442.773	442.819
j	5029+93.19	30.667	442.734	442.755
☉ of Pier 2	5030+02.94	30.667	442.683	442.683
k	5030+12.94	30.667	442.619	442.618
l	5030+22.94	30.667	442.542	442.550
m	5030+32.94	30.667	442.453	442.463
n	5030+42.94	30.667	442.351	442.357
☉ of East Abutment	5030+49.44	30.667	442.278	442.278
Back of East Abutment	5030+50.70	30.667	442.263	442.263

OPTIONAL LONGITUDINAL CONSTRUCTION JOINT #1

LOCATION	STATION	OFFSET	THEORETICAL GRADE ELEVATIONS	THEORETICAL GRADE ELEVATIONS ADJUSTED FOR DEAD LOAD DEFLECTIONS
Back of West Abutment	5028+80.11	-20.000	442.675	442.675
☉ of West Abutment	5028+81.37	-20.000	442.687	442.687
a	5028+91.37	-20.000	442.775	442.784
b	5029+01.37	-20.000	442.850	442.860
c	5029+11.37	-20.000	442.913	442.917
d	5029+21.37	-20.000	442.963	442.961
☉ of Pier 1	5029+27.87	-20.000	442.989	442.989
e	5029+37.87	-20.000	443.018	443.039
f	5029+47.87	-20.000	443.035	443.082
g	5029+57.87	-20.000	443.040	443.102
h	5029+67.87	-20.000	443.032	443.094
i	5029+77.87	-20.000	443.012	443.057
j	5029+87.87	-20.000	442.979	442.999
☉ of Pier 2	5029+97.62	-20.000	442.934	442.934
k	5030+07.62	-20.000	442.877	442.876
l	5030+17.62	-20.000	442.807	442.814
m	5030+27.62	-20.000	442.724	442.734
n	5030+37.62	-20.000	442.629	442.635
☉ of East Abutment	5030+44.12	-20.000	442.561	442.561
Back of East Abutment	5030+45.38	-20.000	442.547	442.547

OPTIONAL LONGITUDINAL CONSTRUCTION JOINT #2

LOCATION	STATION	OFFSET	THEORETICAL GRADE ELEVATIONS	THEORETICAL GRADE ELEVATIONS ADJUSTED FOR DEAD LOAD DEFLECTIONS
Back of West Abutment	5028+84.31	20.000	442.714	442.714
☉ of West Abutment	5028+85.57	20.000	442.725	442.725
a	5028+95.57	20.000	442.808	442.817
b	5029+05.57	20.000	442.878	442.888
c	5029+15.57	20.000	442.935	442.939
d	5029+25.57	20.000	442.980	442.978
☉ of Pier 1	5029+32.07	20.000	443.003	443.003
e	5029+42.07	20.000	443.027	443.048
f	5029+52.07	20.000	443.039	443.085
g	5029+62.07	20.000	443.038	443.101
h	5029+72.07	20.000	443.025	443.087
i	5029+82.07	20.000	442.999	443.045
j	5029+92.07	20.000	442.961	442.982
☉ of Pier 2	5030+01.82	20.000	442.912	442.912
k	5030+11.82	20.000	442.849	442.848
l	5030+21.82	20.000	442.774	442.781
m	5030+31.82	20.000	442.686	442.696
n	5030+41.82	20.000	442.585	442.591
☉ of East Abutment	5030+48.32	20.000	442.513	442.513
Back of East Abutment	5030+49.58	20.000	442.499	442.499

BEAM 11

LOCATION	STATION	OFFSET	THEORETICAL GRADE ELEVATIONS	THEORETICAL GRADE ELEVATIONS ADJUSTED FOR DEAD LOAD DEFLECTIONS
Back of West Abutment	5028+86.24	38.333	442.349	442.349
☉ of West Abutment	5028+87.50	38.333	442.360	442.360
a	5028+97.50	38.333	442.440	442.449
b	5029+07.50	38.333	442.508	442.518
c	5029+17.50	38.333	442.563	442.567
d	5029+27.50	38.333	442.605	442.604
☉ of Pier 1	5029+34.00	38.333	442.626	442.626
e	5029+44.00	38.333	442.648	442.669
f	5029+54.00	38.333	442.658	442.704
g	5029+64.00	38.333	442.655	442.717
h	5029+74.00	38.333	442.639	442.701
i	5029+84.00	38.333	442.611	442.657
j	5029+94.00	38.333	442.570	442.591
☉ of Pier 2	5030+03.75	38.333	442.519	442.519
k	5030+13.75	38.333	442.453	442.453
l	5030+23.75	38.333	442.376	442.383
m	5030+33.75	38.333	442.285	442.295
n	5030+43.75	38.333	442.183	442.188
☉ of East Abutment	5030+50.25	38.333	442.109	442.109
Back of East Abutment	5030+51.51	38.333	442.094	442.094

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