

BEAM 1

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. N. Abutment	278+18.10	-30.250	477.547	477.547
⊕ Brg. N. Abutment	278+19.51	-30.250	477.542	477.542
a	278+29.51	-30.250	477.505	477.531
b	278+39.51	-30.250	477.468	477.509
c	278+49.51	-30.250	477.431	477.470
d	278+59.51	-30.250	477.394	477.416
⊕ Brg. S. Abutment	278+67.35	-30.250	477.365	477.365
Bk. S. Abutment	278+68.76	-30.250	477.360	477.360

BEAM 2

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. N. Abutment	278+14.06	-23.250	477.671	477.671
⊕ Brg. N. Abutment	278+15.46	-23.250	477.666	477.666
a	278+25.46	-23.250	477.629	477.655
b	278+35.46	-23.250	477.592	477.633
c	278+45.46	-23.250	477.555	477.594
d	278+55.46	-23.250	477.518	477.540
⊕ Brg. S. Abutment	278+63.31	-23.250	477.489	477.489
Bk. S. Abutment	278+64.71	-23.250	477.484	477.484

BEAM 3

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. N. Abutment	278+10.01	-16.250	477.796	477.796
⊕ Brg. N. Abutment	278+11.42	-16.250	477.791	477.791
a	278+21.42	-16.250	477.754	477.779
b	278+31.42	-16.250	477.717	477.757
c	278+41.42	-16.250	477.680	477.719
d	278+51.42	-16.250	477.643	477.664
⊕ Brg. S. Abutment	278+59.27	-16.250	477.614	477.614
Bk. S. Abutment	278+60.67	-16.250	477.608	477.608

BEAM 4

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. N. Abutment	278+09.92	-9.250	477.905	477.905
⊕ Brg. N. Abutment	278+10.92	-9.250	477.902	477.902
a	278+20.92	-9.250	477.865	477.885
b	278+30.92	-9.250	477.828	477.859
c	278+40.92	-9.250	477.791	477.817
⊕ Brg. S. Abutment	278+55.22	-9.250	477.738	477.738
Bk. S. Abutment	278+56.63	-9.250	477.733	477.733

BEAM 5

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. N. Abutment	278+09.92	-2.250	478.015	478.015
⊕ Brg. N. Abutment	278+10.92	-2.250	478.011	478.011
a	278+20.92	-2.250	477.974	477.998
b	278+30.92	-2.250	477.937	477.971
c	278+40.92	-2.250	477.900	477.926
⊕ Brg. S. Abutment	278+52.09	-2.250	477.859	477.859
Bk. S. Abutment	278+53.09	-2.250	477.855	477.855

BEAM 6

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. N. Abutment	278+09.92	4.250	477.984	477.984
⊕ Brg. N. Abutment	278+10.92	4.250	477.980	477.980
a	278+20.92	4.250	477.943	477.967
b	278+30.92	4.250	477.906	477.940
c	278+40.92	4.250	477.869	477.895
⊕ Brg. S. Abutment	278+52.09	4.250	477.828	477.828
Bk. S. Abutment	278+53.09	4.250	477.824	477.824

BEAM 7

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. N. Abutment	278+09.92	10.750	477.882	477.882
⊕ Brg. N. Abutment	278+10.92	10.750	477.878	477.878
a	278+20.92	10.750	477.841	477.865
b	278+30.92	10.750	477.804	477.838
c	278+40.92	10.750	477.767	477.793
⊕ Brg. S. Abutment	278+52.09	10.750	477.726	477.726
Bk. S. Abutment	278+53.09	10.750	477.722	477.722

BEAM 8

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. N. Abutment	278+09.92	17.250	477.780	477.780
⊕ Brg. N. Abutment	278+10.92	17.250	477.777	477.777
a	278+20.92	17.250	477.740	477.764
b	278+30.92	17.250	477.703	477.737
c	278+40.92	17.250	477.666	477.692
⊕ Brg. S. Abutment	278+52.09	17.250	477.624	477.624
Bk. S. Abutment	278+53.09	17.250	477.621	477.621

BEAM 9

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. N. Abutment	278+09.92	23.750	477.679	477.679
⊕ Brg. N. Abutment	278+10.92	23.750	477.675	477.675
a	278+20.92	23.750	477.638	477.662
b	278+30.92	23.750	477.601	477.635
c	278+40.92	23.750	477.564	477.590
⊕ Brg. S. Abutment	278+52.09	23.750	477.523	477.523
Bk. S. Abutment	278+53.09	23.750	477.519	477.519

BEAM 10

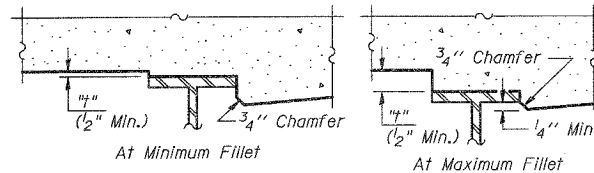
Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. N. Abutment	278+09.92	30.250	477.577	477.577
⊕ Brg. N. Abutment	278+10.92	30.250	477.574	477.574
a	278+20.92	30.250	477.537	477.561
b	278+30.92	30.250	477.500	477.534
c	278+40.92	30.250	477.463	477.488
⊕ Brg. S. Abutment	278+52.09	30.250	477.421	477.421
Bk. S. Abutment	278+53.09	30.250	477.418	477.418

PROFILE GRADE LINE

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. N. Abutment	278+09.92	0.000	478.050	478.050
⊕ Brg. N. Abutment	278+10.92	0.000	478.046	478.046
a	278+20.92	0.000	478.009	478.033
b	278+30.92	0.000	477.972	478.006
c	278+40.92	0.000	477.935	477.961
⊕ Brg. S. Abutment	278+52.09	0.000	477.894	477.894
Bk. S. Abutment	278+53.09	0.000	477.890	477.890

LONGITUDINAL STAGED CONSTRUCTION JOINT

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. N. Abutment	278+09.92	1.000	478.034	478.034
⊕ Brg. N. Abutment	278+10.92	1.000	478.031	478.031
a	278+20.92	1.000	477.994	478.018
b	278+30.92	1.000	477.957	477.991
c	278+40.92	1.000	477.920	477.946
⊕ Brg. S. Abutment	278+52.09	1.000	477.878	477.878
Bk. S. Abutment	278+53.09	1.000	477.875	477.875



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

FILLET HEIGHTS

DECK ELEVATIONS
HUMBERT ROAD OVER
BLACK CREEK
SECTION 05-00221-00-BR
CITY OF ALTON
STA. 278+31.50
STRUCTURE NO. 060-3023