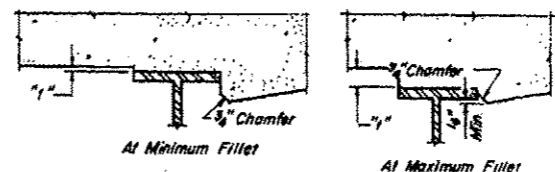
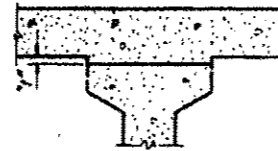
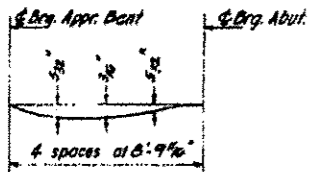


# FOR INFORMATION ONLY

STATE OF ILLINOIS  
DEPARTMENT OF PUBLIC WORKS & BUILDINGS  
DIVISION OF HIGHWAYS

PROJECT NO.	SECTION	DATE	SCALE	SHEET NO.
FA. 403-5896	195	WHITEBLADE	3/6	19-SHEETS



**PRC Beams**  
**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.

To determine "f": After all precast prestressed beams have been erected, elevations of the top flanges of the beams shall be taken at intervals shown below. These elevations subtracted algebraically from the "Theoretical Grade Elevations Adjusted for Dead Load Deflection" shown below, minus slab thickness, equals the fillet heights "f". A positive value of "f" equals the fillet height above the top of the beam. A negative value of "f", not to exceed 2", equal the embedment of the beam above the theoretical bottom of slab elevation.

To determine "f": 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 "f" above top flange of beams.  
**FILLET HEIGHTS**

**FILLET HEIGHTS**

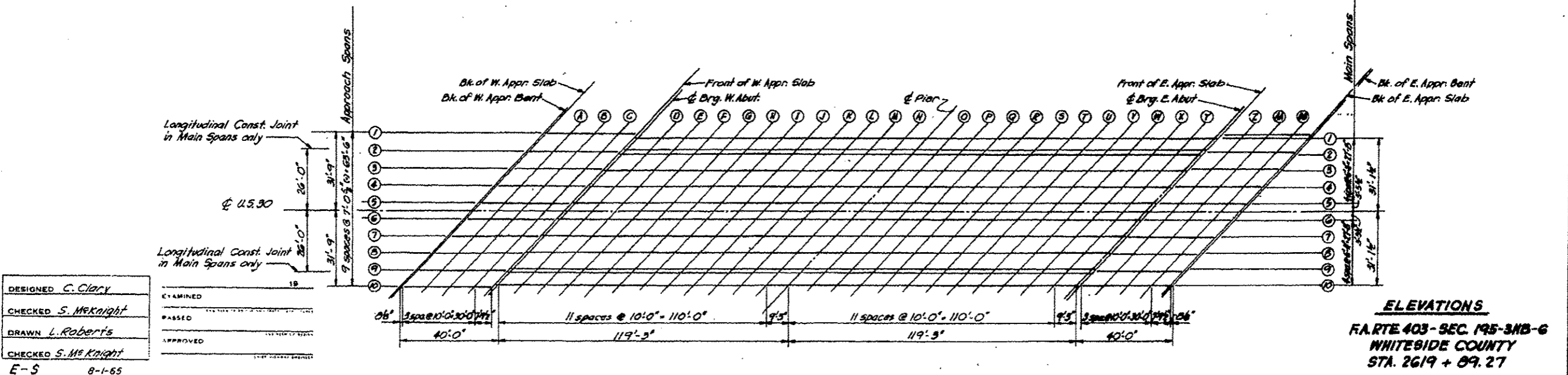
Note: Elevations are to the top of the Concrete Slab.

Location	Beam	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Back of W. Appr. Slab	1	1511+02.019	31.750	676.015	676.015
	2	1511+76.530	24.667	676.118	676.118
	3	1511+82.041	17.583	676.189	676.189
	4	1511+88.053	10.500	676.230	676.230
	5	1511+95.064	3.417	676.310	676.310
	6	1511+98.980	0	676.357	676.357
	7	1511+101.379	3.417	676.256	676.256
	8	1511+102.087	10.500	676.086	676.086
	9	1511+105.919	17.583	675.916	675.916
	10	1511+112.110	24.667	675.732	675.732
A	10	1512+21.021	31.750	675.549	675.549
	1	1511+89.049	31.750	676.080	676.080
	2	1511+85.530	24.667	676.186	676.186
	3	1511+72.041	17.583	676.292	676.292
	4	1511+78.553	10.500	676.398	676.398
	5	1511+85.064	3.417	676.504	676.504
	6	1511+88.980	0	676.419	676.419
	7	1511+91.879	3.417	676.390	676.390
	8	1511+98.087	10.500	676.173	676.173
	9	1511+104.519	17.583	676.008	676.008

Location	Beam	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
B	1	1511+84.049	31.750	676.160	676.157
	2	1511+85.530	24.667	676.250	676.257
	3	1511+87.041	17.583	676.329	676.346
	4	1511+88.553	10.500	676.377	676.444
	5	1511+90.064	3.417	676.404	676.481
	6	1511+91.580	0	676.446	676.513
	7	1511+93.079	3.417	676.413	676.435
	8	1511+94.587	10.500	676.295	676.272
	9	1511+96.099	17.583	676.091	676.108
	10	1511+101.110	24.667	675.916	675.933
C	10	1511+107.621	31.750	675.710	675.727
	1	1511+87.049	31.750	676.194	676.203
	2	1511+88.530	24.667	676.307	676.316
	3	1511+82.041	17.583	676.390	676.399
	4	1511+88.553	10.500	676.462	676.471
	5	1511+95.064	3.417	676.533	676.542
	6	1511+98.980	0	676.566	676.575
	7	1511+97.879	3.417	676.490	676.499
	8	1511+94.087	10.500	676.331	676.340
	9	1511+91.099	17.583	676.171	676.180

Location	Beam	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Front of W. Appr. Slab	1	1511+81.527	31.750	676.252	676.252
	2	1511+87.730	24.667	676.343	676.343
	3	1511+94.939	17.583	676.434	676.434
	4	1511+102.141	10.500	676.503	676.503
	5	1511+97.376	3.417	676.553	676.553
	6	1511+102.980	0	676.617	676.617
	7	1511+108.784	3.417	676.549	676.549
	8	1511+114.588	10.500	676.396	676.396
	9	1511+120.392	17.583	676.239	676.239
	10	1511+126.196	24.667	676.080	676.080
D	10	1511+132.000	31.750	675.861	675.861
	1	1511+82.577	31.750	676.253	676.253
	J.1	1511+85.000	26.000	676.357	676.357
	2	1511+86.660	20.200	676.366	676.366
	3	1511+92.048	17.292	676.448	676.448
	4	1511+97.436	10.375	676.522	676.522
	5	1511+98.829	3.458	676.592	676.592
	6	1511+99.000	0	676.627	676.627
	7	1511+102.471	3.458	676.552	676.552
	8	1511+108.576	10.575	676.402	676.402
E	9	1511+114.681	17.692	676.249	676.249
	10	1511+120.685	24.708	676.086	676.086
	J.2	1511+82.496	26.000	676.359	676.359
	1	1511+87.730	31.750	676.451	676.451
	J.1	1511+85.000	26.000	676.459	676.459
	2	1511+90.200	20.200	676.484	676.484
	3	1511+95.400	17.292	676.548	676.548
	4	1511+100.600	10.375	676.612	676.612
	5	1511+105.800	3.458	676.676	676.676
	6	1511+107.000	0	676.740	676.740

Location	Beam	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
E	7	1511+110.277	31.125	676.290	676.290
	J.1	1511+85.000	26.000	676.353	676.353
	2	1511+86.660	20.200	676.418	676.418
	3	1511+92.048	17.292	676.493	676.493
	4	1511+97.436	10.375	676.578	676.578
	5	1511+98.829	3.458	676.650	676.650
	6	1511+99.000	0	676.694	676.702
	7	1511+102.471	3.458	676.618	676.626
	8	1511+108.576	10.575	676.467	676.475
	9	1511+114.681	17.692	676.317	676.325
E	10	1511+120.685	24.708	676.160	676.168
	J.2	1511+85.000	26.000	676.359	676.359
	1	1511+87.730	31.750	676.451	676.451
	J.1	1511+85.000	26.000	676.459	676.459
	2	1511+90.200	20.200	676.484	676.484
	3	1511+95.400	17.292	676.548	676.548
	4	1511+100.600	10.375	676.612	676.612
	5	1511+105.800	3.458	676.676	676.676
	6	1511+107.000	0	676.740	676.740
	7	1511+108.576	10.575	676.596	676.596



DESIGNED C. Clary  
CHECKED S. McKnight  
DRAWN L. Roberts  
CHECKED S. McKnight

EXAMINED  
PASSED  
APPROVED

**ELEVATIONS**  
FA. RTE 403-SEC. 195-3NB-6  
WHITEBLADE COUNTY  
STA. 2619 + 89.27