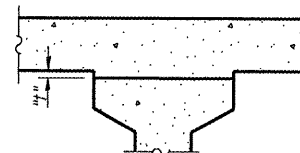


STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION



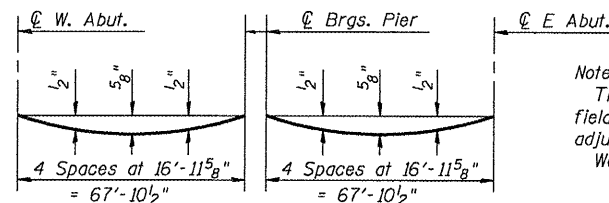
ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET
F.A.P. 645	*	Marshall	71	22
FED. ROAD DIST. NO. 4	ILLINOIS	FED. AID PROJECT-		

SHEET NO. 5  
23 SHEETS

\*(105BR)BR  
Contract - 68479

To determine "t": 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 from the "Theoretical Grade Elevations Adjusted for Dead Load Deflections" shown below, minus slab thickness, equals the fillet heights "t" above top flanges of beams.

FILLET HEIGHTS



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.  
Work this sheet with sheet 6 of 23.

DEAD LOAD DEFLECTION DIAGRAM  
(Includes weight of concrete, excluding beams).

BEAM 1

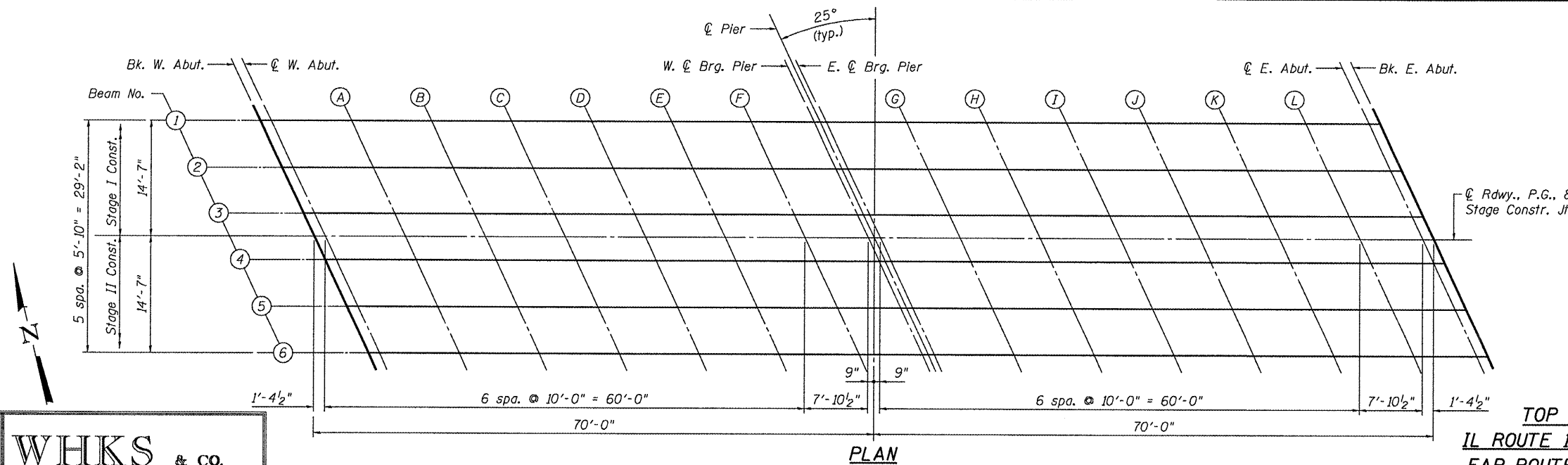
LOCATION	STATION	OFFSET	THEORETICAL GRADE ELEVATIONS	THEORETICAL GRADE ELEVATIONS ADJUSTED FOR DEAD LOAD DEFLECTION
Bk. of W. Abut.	33413.20	-14.58	655.70	655.70
Cl. W. Abut.	33414.58	-14.58	655.65	655.65
A	33424.58	-14.58	655.33	655.35
B	33434.58	-14.58	655.02	655.06
C	33444.58	-14.58	654.71	654.76
D	33454.58	-14.58	654.41	654.46
E	33464.58	-14.58	654.12	654.16
F	33474.58	-14.58	653.83	653.85
W. Cl. Brg. Pier	33482.45	-14.58	653.62	653.62
Cl. Pier	33483.20	-14.58	653.59	653.59
E. Cl. Brg. Pier	33483.95	-14.58	653.57	653.57
G	33493.95	-14.58	653.30	653.32
H	33503.95	-14.58	653.04	653.08
I	33513.95	-14.58	652.79	652.84
J	33523.95	-14.58	652.54	652.59
K	33533.95	-14.58	652.30	652.34
L	33543.95	-14.58	652.07	652.09
Cl. E. Abut.	33551.82	-14.58	651.89	651.89
Bk. of E. Abut.	33553.20	-14.58	651.86	651.86

BEAM 2

LOCATION	STATION	OFFSET	THEORETICAL GRADE ELEVATIONS	THEORETICAL GRADE ELEVATIONS ADJUSTED FOR DEAD LOAD DEFLECTION
Bk. of W. Abut.	33415.92	-8.75	655.71	655.71
Cl. W. Abut.	33417.30	-8.75	655.67	655.67
A	33427.30	-8.75	655.35	655.37
B	33437.30	-8.75	655.04	655.08
C	33447.30	-8.75	654.73	654.78
D	33457.30	-8.75	654.43	654.48
E	33467.30	-8.75	654.14	654.18
F	33477.30	-8.75	653.86	653.88
W. Cl. Brg. Pier	33485.17	-8.75	653.65	653.65
Cl. Pier	33485.92	-8.75	653.62	653.62
E. Cl. Brg. Pier	33486.67	-8.75	653.60	653.60
G	33496.67	-8.75	653.34	653.36
H	33506.67	-8.75	653.08	653.12
I	33516.67	-8.75	652.82	652.87
J	33526.67	-8.75	652.58	652.63
K	33536.67	-8.75	652.34	652.38
L	33546.67	-8.75	652.11	652.13
Cl. E. Abut.	33554.54	-8.75	651.94	651.94
Bk. of E. Abut.	33555.92	-8.75	651.91	651.91

BEAM 3

LOCATION	STATION	OFFSET	THEORETICAL GRADE ELEVATIONS	THEORETICAL GRADE ELEVATIONS ADJUSTED FOR DEAD LOAD DEFLECTION
Bk. of W. Abut.	33418.64	-2.92	655.72	655.72
Cl. W. Abut.	33420.02	-2.92	655.67	655.67
A	33430.02	-2.92	655.35	655.37
B	33440.02	-2.92	655.04	655.08
C	33450.02	-2.92	654.74	654.79
D	33460.02	-2.92	654.45	654.50
E	33470.02	-2.92	654.16	654.20
F	33480.02	-2.92	653.88	653.90
W. Cl. Brg. Pier	33487.89	-2.92	653.66	653.66
Cl. Pier	33488.64	-2.92	653.64	653.64
E. Cl. Brg. Pier	33489.39	-2.92	653.62	653.62
G	33499.39	-2.92	653.36	653.38
H	33509.39	-2.92	653.10	653.14
I	33519.39	-2.92	652.85	652.90
J	33529.39	-2.92	652.60	652.65
K	33539.39	-2.92	652.37	652.41
L	33549.39	-2.92	652.14	652.16
Cl. E. Abut.	33557.26	-2.92	651.97	651.97
Bk. of E. Abut.	33558.64	-2.92	651.94	651.94



PLAN

TOP OF SLAB ELEVATIONS  
IL ROUTE 17 OVER SENACHWINE CREEK  
FAP ROUTE 645 - SECTION (105BR)BR  
MARSHALL COUNTY  
STATION 334+90.00  
STRUCTURE NO. 062-0072

DESIGNED CEH  
CHECKED CWC  
DRAWN DLH  
CHECKED CEH / CWC

**WHKS & CO.**  
ENGINEERS PLANNERS LAND SURVEYORS  
MASON CITY, IOWA DUBUQUE, IOWA AMES, IOWA  
E. DUBUQUE, ILLINOIS SPRINGFIELD, ILLINOIS ROCHESTER, MINNESOTA

Operator: dtheberling

Date: 8/26/2008

Filename: L:\obs\DOT BBS\6956 BBS Various Various\03\CADD\_Struct\062-0072 4-18-08.dgn