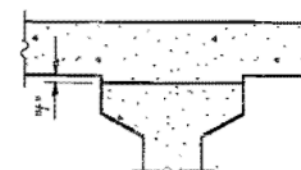
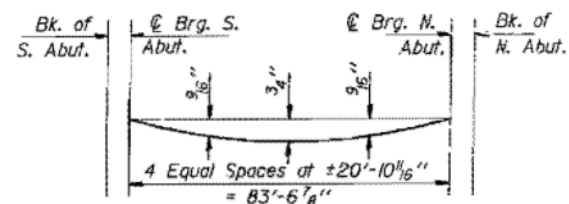


STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION



ROUTE NO.	SECTION	POST-MILE	SHEET NO.	SHEET NO. OF SHEETS
100		110	50	15



DEAD LOAD DEFLECTION DIAGRAM

(Includes weight of concrete slab 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.

FOR INFORMATION ONLY

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 from the "Theoretical Grade Elevations Adjusted For Dead Load Deflections" minus slab thickness, equals the fillet heights "f" above top flanges of beams.

FILLET HEIGHTS

BEAM #1

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. S. Abut.	13597.587	-16.563	570.278	570.278
C. Brg. S. Abut.	13601.545	-16.563	570.278	570.278
A	13611.545	-16.563	570.278	570.301
B	13621.545	-16.563	570.278	570.324
C	13631.545	-16.563	570.278	570.347
D	13641.545	-16.563	570.278	570.370
E	13651.545	-16.563	570.278	570.393
F	13661.545	-16.563	570.278	570.416
G	13671.545	-16.563	570.278	570.439
C. Brg. N. Abut.	13685.118	-16.563	570.278	570.278
Bk. N. Abut.	13689.087	-16.563	570.278	570.278

BEAM #2

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. S. Abut.	13603.552	-9.938	570.405	570.405
C. Brg. S. Abut.	13607.511	-9.938	570.405	570.405
A	13617.511	-9.938	570.405	570.428
B	13627.511	-9.938	570.405	570.451
C	13637.511	-9.938	570.405	570.474
D	13647.511	-9.938	570.405	570.497
E	13657.511	-9.938	570.405	570.520
F	13667.511	-9.938	570.405	570.543
G	13677.511	-9.938	570.405	570.566
C. Brg. N. Abut.	13691.083	-9.938	570.405	570.405
Bk. N. Abut.	13695.052	-9.938	570.405	570.405

BEAM #3

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. S. Abut.	13609.517	-3.313	570.508	570.508
C. Brg. S. Abut.	13613.476	-3.313	570.508	570.508
A	13623.476	-3.313	570.508	570.531
B	13633.476	-3.313	570.508	570.554
C	13643.476	-3.313	570.508	570.577
D	13653.476	-3.313	570.508	570.600
E	13663.476	-3.313	570.508	570.623
F	13673.476	-3.313	570.508	570.646
G	13683.476	-3.313	570.508	570.669
C. Brg. N. Abut.	13697.049	-3.313	570.508	570.508
Bk. N. Abut.	13701.017	-3.313	570.508	570.508

BONDED STAGE CONSTRUCTION JOINT

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. S. Abut.	13611.149	-1.500	570.537	570.537
C. Brg. S. Abut.	13615.108	-1.500	570.537	570.537
A	13625.108	-1.500	570.537	570.560
B	13635.108	-1.500	570.537	570.583
C	13645.108	-1.500	570.537	570.606
D	13655.108	-1.500	570.537	570.629
E	13665.108	-1.500	570.537	570.652
F	13675.108	-1.500	570.537	570.675
G	13685.108	-1.500	570.537	570.698
C. Brg. N. Abut.	13698.681	-1.500	570.537	570.537
Bk. N. Abut.	13702.649	-1.500	570.537	570.537

P.G.

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. S. Abut.	13612.500	0.000	570.560	570.560
C. Brg. S. Abut.	13616.458	0.000	570.560	570.560
A	13626.458	0.000	570.560	570.583
B	13636.458	0.000	570.560	570.606
C	13646.458	0.000	570.560	570.629
D	13656.458	0.000	570.560	570.652
E	13666.458	0.000	570.560	570.675
F	13676.458	0.000	570.560	570.698
G	13686.458	0.000	570.560	570.721
C. Brg. N. Abut.	13700.031	0.000	570.560	570.560
Bk. N. Abut.	13704.000	0.000	570.560	570.560

BEAM #4

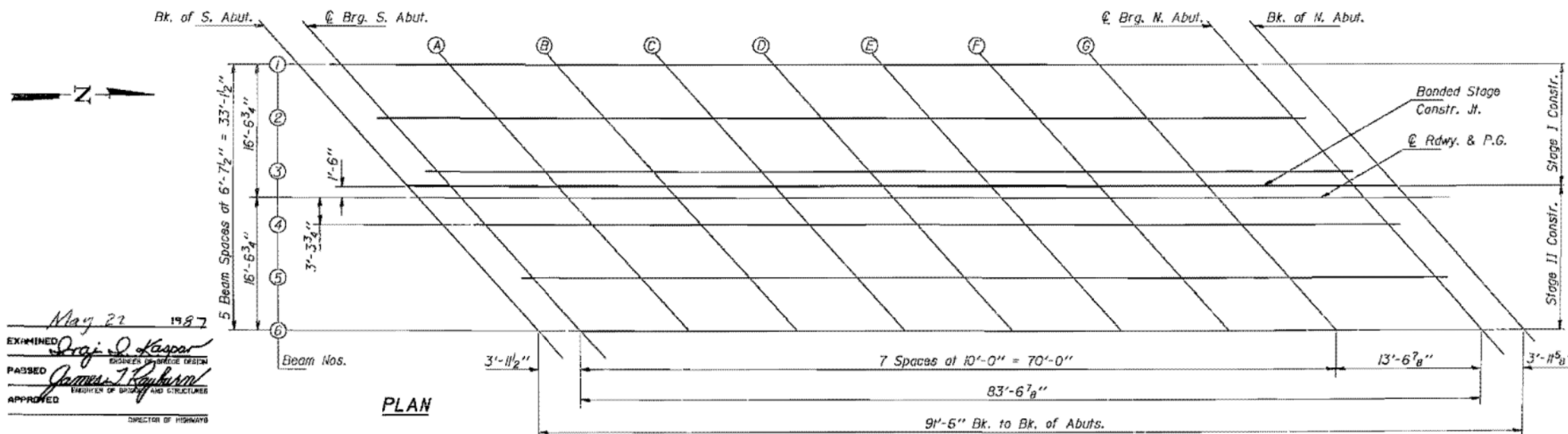
Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. S. Abut.	13615.483	3.313	570.508	570.508
C. Brg. S. Abut.	13619.441	3.313	570.508	570.508
A	13629.441	3.313	570.508	570.531
B	13639.441	3.313	570.508	570.554
C	13649.441	3.313	570.508	570.577
D	13659.441	3.313	570.508	570.600
E	13669.441	3.313	570.508	570.623
F	13679.441	3.313	570.508	570.646
G	13689.441	3.313	570.508	570.669
C. Brg. N. Abut.	13703.014	3.313	570.508	570.508
Bk. N. Abut.	13706.983	3.313	570.508	570.508

BEAM #5

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. S. Abut.	13621.448	9.938	570.405	570.405
C. Brg. S. Abut.	13625.406	9.938	570.405	570.405
A	13635.406	9.938	570.405	570.428
B	13645.406	9.938	570.405	570.451
C	13655.406	9.938	570.405	570.474
D	13665.406	9.938	570.405	570.497
E	13675.406	9.938	570.405	570.520
F	13685.406	9.938	570.405	570.543
G	13695.406	9.938	570.405	570.566
C. Brg. N. Abut.	13708.979	9.938	570.405	570.405
Bk. N. Abut.	13712.948	9.938	570.405	570.405

BEAM #6

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. S. Abut.	13627.413	16.563	570.278	570.278
C. Brg. S. Abut.	13631.371	16.563	570.278	570.278
A	13641.371	16.563	570.278	570.301
B	13651.371	16.563	570.278	570.324
C	13661.371	16.563	570.278	570.347
D	13671.371	16.563	570.278	570.370
E	13681.371	16.563	570.278	570.393
F	13691.371	16.563	570.278	570.416
G	13701.371	16.563	570.278	570.439
C. Brg. N. Abut.	13714.914	16.563	570.278	570.278
Bk. N. Abut.	13718.913	16.563	570.278	570.278



DESIGNED VICTOR VELTZ
CHECKED Eric Amundson
DRAWN Rita Williams
CHECKED V.V. F.L.G. pmp

EXAMINED *Dr. J. Kasper*
PASSED *James J. Rayburn*
APPROVED _____

May 22 1987

TOP OF SLAB ELEVATIONS
F.A. RT. 100 SEC. 110BR
GRUNDY COUNTY
STA. 136+58.25