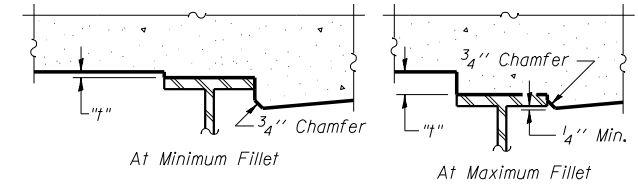
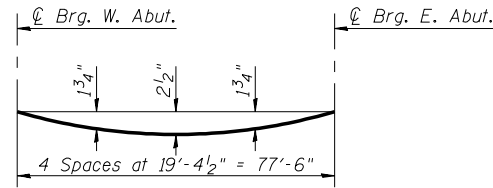


STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION



SHEET 2  
OF 12

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
693	120B	MCLEAN	31	13
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	
CONTRACT NO. 70518				



**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 and grinding as shown below.

To determine "t": 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 and Grinding" shown below, minus the 8/4" slab thickness, equals the fillet heights "t" above top flange of beams. The slab is to be ground after curing to achieve smoothness, but the slab is not to be ground to elevations below the "Theoretical Grade Elevations" shown below. For grinding the deck, see Special Provisions.

**FILLET HEIGHTS**

NOTE: Expected fillet height "t" varies from 1/2" (at Abuts.) to 3" (at midspan).

**BEAM 1**

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection and Grinding
Bk. W. Abut.	1208+63.00	-15.00	728.23	728.25
☉ Brg. W. Abut.	1208+64.25	-15.00	728.24	728.26
A	1208+74.25	-15.00	728.32	728.42
B	1208+84.25	-15.00	728.41	728.58
C	1208+94.25	-15.00	728.50	728.72
D	1209+04.25	-15.00	728.60	728.83
E	1209+14.25	-15.00	728.70	728.91
F	1209+24.25	-15.00	728.80	728.96
G	1209+34.25	-15.00	728.91	729.00
☉ Brg. E. Abut.	1209+41.75	-15.00	729.00	729.02
Bk. E. Abut.	1209+43.00	-15.00	729.02	729.04

**BEAM 2**

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection and Grinding
Bk. W. Abut.	1208+63.00	-9.00	728.33	728.35
☉ Brg. W. Abut.	1208+64.25	-9.00	728.34	728.36
A	1208+74.25	-9.00	728.43	728.53
B	1208+84.25	-9.00	728.51	728.68
C	1208+94.25	-9.00	728.61	728.82
D	1209+04.25	-9.00	728.70	728.93
E	1209+14.25	-9.00	728.80	729.01
F	1209+24.25	-9.00	728.91	729.07
G	1209+34.25	-9.00	729.02	729.10
☉ Brg. E. Abut.	1209+41.75	-9.00	729.11	729.13
Bk. E. Abut.	1209+43.00	-9.00	729.12	729.14

**BEAM 3**

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection and Grinding
Bk. W. Abut.	1208+63.00	-3.00	728.42	728.44
☉ Brg. W. Abut.	1208+64.25	-3.00	728.43	728.45
A	1208+74.25	-3.00	728.52	728.62
B	1208+84.25	-3.00	728.60	728.77
C	1208+94.25	-3.00	728.70	728.91
D	1209+04.25	-3.00	728.79	729.02
E	1209+14.25	-3.00	728.89	729.10
F	1209+24.25	-3.00	729.00	729.16
G	1209+34.25	-3.00	729.11	729.19
☉ Brg. E. Abut.	1209+41.75	-3.00	729.20	729.22
Bk. E. Abut.	1209+43.00	-3.00	729.21	729.23

**☉ RDWY. & PROFILE GRADE**

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection and Grinding
Bk. W. Abut.	1208+63.00	0.00	728.47	728.49
☉ Brg. W. Abut.	1208+64.25	0.00	728.48	728.50
A	1208+74.25	0.00	728.56	728.66
B	1208+84.25	0.00	728.65	728.82
C	1208+94.25	0.00	728.74	728.96
D	1209+04.25	0.00	728.84	729.07
E	1209+14.25	0.00	728.94	729.15
F	1209+24.25	0.00	729.04	729.20
G	1209+34.25	0.00	729.15	729.24
☉ Brg. E. Abut.	1209+41.75	0.00	729.24	729.26
Bk. E. Abut.	1209+43.00	0.00	729.26	729.28

**BEAM 4**

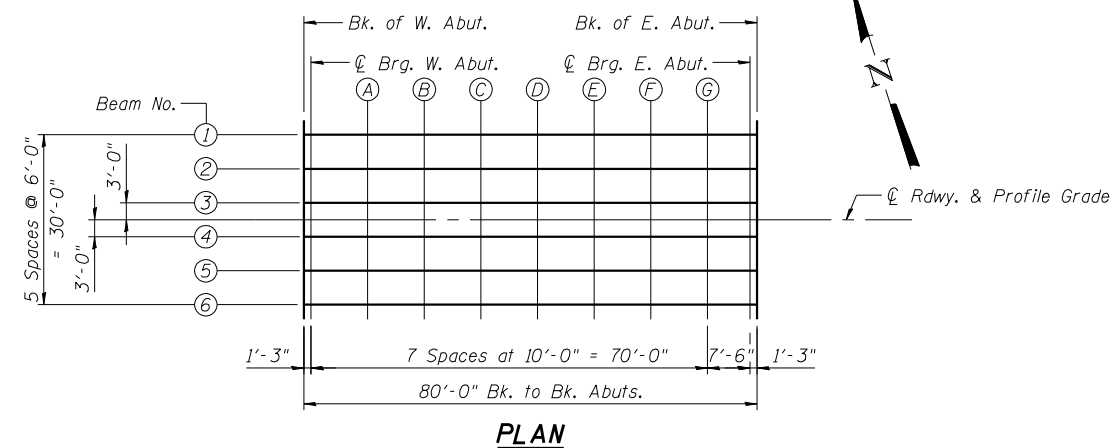
Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection and Grinding
Bk. W. Abut.	1208+63.00	3.00	728.42	728.44
☉ Brg. W. Abut.	1208+64.25	3.00	728.43	728.45
A	1208+74.25	3.00	728.52	728.62
B	1208+84.25	3.00	728.60	728.77
C	1208+94.25	3.00	728.70	728.91
D	1209+04.25	3.00	728.79	729.02
E	1209+14.25	3.00	728.89	729.10
F	1209+24.25	3.00	729.00	729.16
G	1209+34.25	3.00	729.11	729.19
☉ Brg. E. Abut.	1209+41.75	3.00	729.20	729.22
Bk. E. Abut.	1209+43.00	3.00	729.21	729.23

**BEAM 5**

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection and Grinding
Bk. W. Abut.	1208+63.00	9.00	728.33	728.35
☉ Brg. W. Abut.	1208+64.25	9.00	728.34	728.36
A	1208+74.25	9.00	728.43	728.53
B	1208+84.25	9.00	728.51	728.68
C	1208+94.25	9.00	728.61	728.82
D	1209+04.25	9.00	728.70	728.93
E	1209+14.25	9.00	728.80	729.01
F	1209+24.25	9.00	728.91	729.07
G	1209+34.25	9.00	729.02	729.10
☉ Brg. E. Abut.	1209+41.75	9.00	729.11	729.13
Bk. E. Abut.	1209+43.00	9.00	729.12	729.14

**BEAM 6**

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection and Grinding
Bk. W. Abut.	1208+63.00	15.00	728.23	728.25
☉ Brg. W. Abut.	1208+64.25	15.00	728.24	728.26
A	1208+74.25	15.00	728.32	728.42
B	1208+84.25	15.00	728.41	728.58
C	1208+94.25	15.00	728.50	728.72
D	1209+04.25	15.00	728.60	728.83
E	1209+14.25	15.00	728.70	728.91
F	1209+24.25	15.00	728.80	728.96
G	1209+34.25	15.00	728.91	729.00
☉ Brg. E. Abut.	1209+41.75	15.00	729.00	729.02
Bk. E. Abut.	1209+43.00	15.00	729.02	729.04



**TOP OF SLAB ELEVATIONS**  
FAP 693 (IL 9) OVER  
WEST FORK SUGAR CREEK  
FAP ROUTE 693 SECTION 120B  
MCLEAN COUNTY  
STATION 1209+03.00  
STRUCTURE NO. 057-0242

**JD Johnson, Depp & Quisenberry**  
CONSULTING ENGINEERS  
Springfield, Illinois

DESIGNED: CDB	DRAWN: SJS
CHECKED: DCD	CHECKED: CDB/DCD