

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAP 328	10BR-21B-1	WAYNE	106	7
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT-		

Contract # 74040

☉ STRUCTURE & STAGED CONSTRUCTION JOINT

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. S. Abut.	383+91.90	0	424.374	424.374
☉ Brg. S. Abut.	383+93.15	0	424.376	424.376
A	384+03.15	0	424.391	424.408
B	384+13.15	0	424.403	424.423
C	384+23.15	0	424.412	424.423
☉ Pier	384+34.40	0	424.418	424.418
D	384+44.40	0	424.420	424.428
E	384+54.40	0	424.419	424.438
F	384+64.40	0	424.415	424.434
G	384+74.40	0	424.407	424.415
☉ Pier	384+84.40	0	424.397	424.397
H	384+94.40	0	424.383	424.392
I	385+04.40	0	424.366	424.386
J	385+14.40	0	424.346	424.364
☉ Brg. N. Abut.	385+25.65	0	424.320	424.320
Bk. N. Abut.	385+26.90	0	424.317	424.317

BEAM 1 & 6

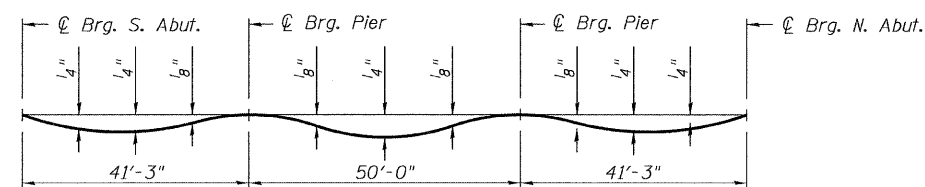
Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. S. Abut.	383+91.90	18.75'	424.046	424.046
☉ Brg. S. Abut.	383+93.15	18.75'	424.048	424.048
A	384+03.15	18.75'	424.063	424.078
B	384+13.15	18.75'	424.075	424.093
C	384+23.15	18.75'	424.084	424.093
☉ Pier	384+34.40	18.75'	424.090	424.090
D	384+44.40	18.75'	424.092	424.099
E	384+54.40	18.75'	424.091	424.107
F	384+64.40	18.75'	424.086	424.103
G	384+74.40	18.75'	424.079	424.086
☉ Pier	384+84.40	18.75'	424.068	424.068
H	384+94.40	18.75'	424.055	424.063
I	385+04.40	18.75'	424.038	424.055
J	385+14.40	18.75'	424.018	424.034
☉ Brg. N. Abut.	385+25.65	18.75'	423.992	423.992
Bk. N. Abut.	385+26.90	18.75'	423.989	423.989

BEAM 2 & 5

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. S. Abut.	383+91.90	11.25'	424.198	424.198
☉ Brg. S. Abut.	383+93.15	11.25'	424.201	424.201
A	384+03.15	11.25'	424.215	424.232
B	384+13.15	11.25'	424.227	424.248
C	384+23.15	11.25'	424.236	424.247
☉ Pier	384+34.40	11.25'	424.242	424.242
D	384+44.40	11.25'	424.244	424.252
E	384+54.40	11.25'	424.243	424.262
F	384+64.40	11.25'	424.239	424.258
G	384+74.40	11.25'	424.231	424.240
☉ Pier	384+84.40	11.25'	424.221	424.221
H	384+94.40	11.25'	424.207	424.216
I	385+04.40	11.25'	424.190	424.210
J	385+14.40	11.25'	424.171	424.188
☉ Brg. N. Abut.	385+25.65	11.25'	424.144	424.144
Bk. N. Abut.	385+26.90	11.25'	424.141	424.141

BEAM 3 & 4

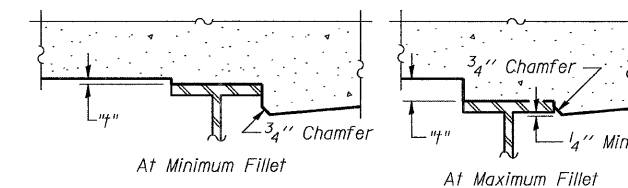
Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. S. Abut.	383+91.90	3.75'	424.316	424.316
☉ Brg. S. Abut.	383+93.15	3.75'	424.318	424.318
A	384+03.15	3.75'	424.333	424.349
B	384+13.15	3.75'	424.344	424.365
C	384+23.15	3.75'	424.353	424.364
☉ Pier	384+34.40	3.75'	424.359	424.359
D	384+44.40	3.75'	424.361	424.370
E	384+54.40	3.75'	424.360	424.379
F	384+64.40	3.75'	424.356	424.375
G	384+74.40	3.75'	424.349	424.357
☉ Pier	384+84.40	3.75'	424.338	424.338
H	384+94.40	3.75'	424.324	424.334
I	385+04.40	3.75'	424.308	424.327
J	385+14.40	3.75'	424.288	424.306
☉ Brg. N. Abut.	385+25.65	3.75'	424.262	424.262
Bk. N. Abut.	385+26.90	3.75'	424.258	424.258



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 above.



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" shown below, minus slab thickness, equals the fillet heights "t" above top flange of beams.

FILLET HEIGHTS

BENTON & ASSOCIATES, INC.

DESIGNED	MBH
CHECKED	NRF
DRAWN	MBH
CHECKED	NRF

E-S

11-1-06

**TOP OF SLAB ELEVATIONS
US 45 / DEER CREEK
F.A.P. RT. 328
WAYNE COUNTY
SN. 096-0068**