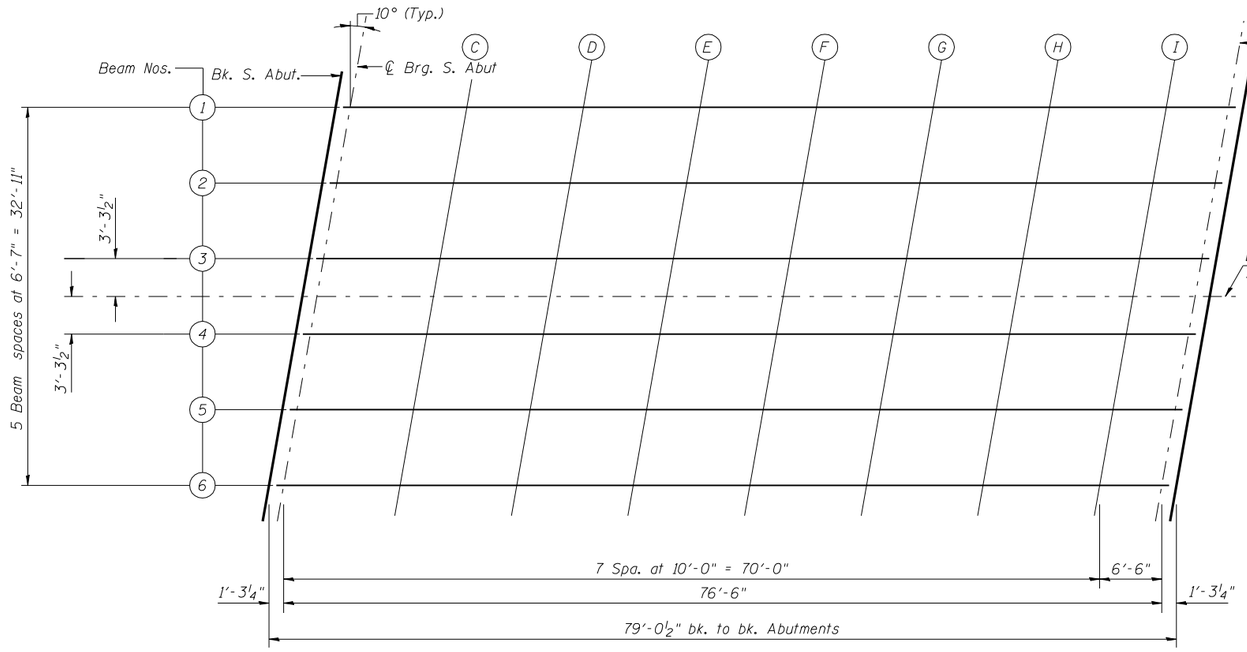
ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAP 42 (IL 127)	106 (B-2)	Montgomery	61	22
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT-		

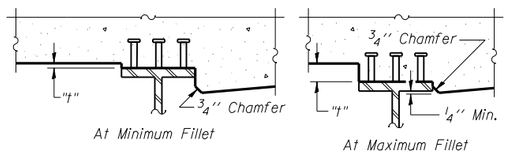
SHEET NO. 4
15 SHEETS

Contract #72150



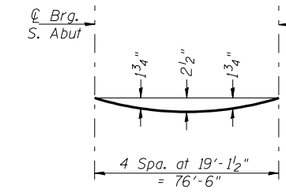
PLAN

Note:
All offsets are measured radially from ℄ Roadway



FILLET HEIGHTS

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.



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.

BEAM 1

Location	Station	Offset (ft)	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. of S. Abut.	115+62.45	-16.49	565.09	565.09
℄ Brg. S. Abut.	115+63.72	-16.49	565.09	565.09
C	115+73.70	-16.45	565.08	565.17
D	115+83.67	-16.42	565.07	565.22
E	115+93.65	-16.41	565.06	565.25
F	116+03.63	-16.41	565.05	565.26
G	116+13.61	-16.42	565.04	565.22
H	116+23.59	-16.45	565.03	565.16
I	116+33.57	-16.48	565.02	565.08
℄ Brg. N. Abut.	116+40.06	-16.52	565.02	565.02
Bk. of N. Abut.	116+41.32	-16.52	565.02	565.02

BEAM 2

Location	Station	Offset (ft)	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. of S. Abut.	115+61.26	-9.92	564.93	564.93
℄ Brg. S. Abut.	115+62.53	-9.91	564.93	564.93
C	115+72.51	-9.87	564.92	565.00
D	115+82.50	-9.84	564.91	565.06
E	115+92.49	-9.83	564.90	565.09
F	116+02.48	-9.82	564.89	565.09
G	116+12.46	-9.84	564.88	565.06
H	116+22.45	-9.86	564.87	565.00
I	116+32.44	-9.90	564.86	564.91
℄ Brg. N. Abut.	116+38.93	-9.93	564.85	564.85
Bk. of N. Abut.	116+40.20	-9.93	564.85	564.85

BEAM 3

Location	Station	Offset (ft)	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. of S. Abut.	115+60.07	-3.34	564.77	564.77
℄ Brg. S. Abut.	115+61.34	-3.33	564.77	564.77
C	115+71.33	-3.29	564.76	564.84
D	115+81.33	-3.26	564.75	564.89
E	115+91.32	-3.24	564.73	564.93
F	116+01.32	-3.24	564.72	564.93
G	116+11.32	-3.25	564.71	564.90
H	116+21.31	-3.27	564.71	564.83
I	116+31.31	-3.31	564.70	564.75
℄ Brg. N. Abut.	116+37.81	-3.34	564.69	564.69
Bk. of N. Abut.	116+39.08	-3.34	564.69	564.69

LOCAL TANGENT AT STA. 115+99.00 & STAGE CONSTRUCTION LINE

Location	Station	Offset (ft)	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. of S. Abut.	115+59.48	-0.10	564.69	564.69
℄ Brg. S. Abut.	115+60.75	-0.10	564.69	564.69
C	115+70.75	-0.05	564.68	564.76
D	115+80.75	-0.02	564.66	564.81
E	115+90.75	0.00	564.65	564.85
F	116+00.75	0.00	564.64	564.85
G	116+10.75	-0.01	564.63	564.82
H	116+20.75	-0.03	564.63	564.75
I	116+30.75	-0.07	564.62	564.67
℄ Brg. N. Abut.	116+37.25	-0.10	564.61	564.61
Bk. of N. Abut.	116+38.52	-0.10	564.61	564.61

BEAM 4

Location	Station	Offset (ft)	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. of S. Abut.	115+58.87	3.24	564.61	564.61
℄ Brg. S. Abut.	115+60.14	3.25	564.60	564.60
C	115+70.15	3.29	564.59	564.68
D	115+80.15	3.32	564.58	564.73
E	115+90.16	3.34	564.57	564.76
F	116+00.16	3.34	564.56	564.76
G	116+10.16	3.34	564.55	564.73
H	116+20.17	3.32	564.54	564.67
I	116+30.17	3.28	564.53	564.59
℄ Brg. N. Abut.	116+36.68	3.25	564.53	564.53
Bk. of N. Abut.	116+37.95	3.25	564.53	564.53

BEAM 5

Location	Station	Offset (ft)	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. of S. Abut.	115+57.68	9.82	564.44	564.44
℄ Brg. S. Abut.	115+58.95	9.82	564.44	564.44
C	115+68.96	9.87	564.43	564.51
D	115+78.97	9.90	564.42	564.57
E	115+88.99	9.92	564.41	564.60
F	115+99.00	9.93	564.40	564.60
G	116+09.01	9.92	564.39	564.57
H	116+19.02	9.90	564.38	564.51
I	116+29.04	9.87	564.37	564.42
℄ Brg. N. Abut.	116+35.55	9.84	564.36	564.36
Bk. of N. Abut.	116+36.82	9.84	564.36	564.36

BEAM 6

Location	Station	Offset (ft)	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. of S. Abut.	115+56.48	16.39	564.28	564.28
℄ Brg. S. Abut.	115+57.75	16.40	564.28	564.28
C	115+67.77	16.45	564.27	564.35
D	115+77.79	16.48	564.26	564.40
E	115+87.81	16.50	564.24	564.44
F	115+97.84	16.51	564.23	564.44
G	116+07.86	16.51	564.22	564.41
H	116+17.88	16.49	564.21	564.34
I	116+27.90	16.46	564.21	564.26
℄ Brg. N. Abut.	116+34.42	16.43	564.20	564.20
Bk. of N. Abut.	116+35.69	16.42	564.20	564.20

LIN ENGINEERING,LTD.
Consulting Engineers
Chatham, Illinois

Designed By: RKM | Checked By: MTH | Drawn By: AJF
Date: 04/07 | File: 068-0507.DGN

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

DECK ELEVATIONS
ILLINOIS ROUTE 127 OVER LITTLE BEARCAT CREEK
F.A.P. ROUTE 42 - SECTION 106 (B-2)
MONTGOMERY COUNTY
STATION 115+99.00
STRUCTURE NO. 068-0507

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