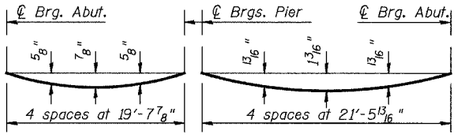
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.U. 3887	06-00214-06-BR	KANE	55	20
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT-		

SHEET NO. 5
25 SHEETS

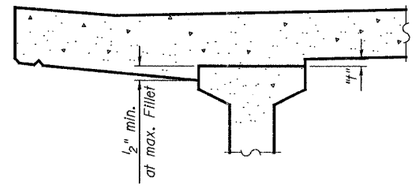
CONTRACT NO. 83923

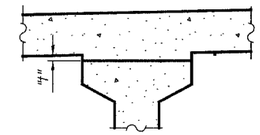


DEAD LOAD DEFLECTION DIAGRAM

(Includes weight of concrete, excluding beams).

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 on sheets 4 and 5 of 25.





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

BEAM -3

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Back N Abut	112+80.26	-4.47	762.69	762.69
℄ Brg N Abut	112+81.52	-4.41	762.66	762.66
A	112+91.49	-3.96	762.46	762.43
B	113+01.46	-3.58	762.25	762.20
C	113+11.43	-3.26	762.03	761.97
D	113+21.41	-2.99	761.82	761.75
E	113+31.39	-2.78	761.60	761.53
F	113+41.37	-2.64	761.37	761.33
G	113+51.36	-2.55	761.14	761.12
N ℄ Brg Pier	113+59.96	-2.52	760.95	760.95
℄ Pier	113+60.71	-2.52	760.93	760.93
S ℄ Brg Pier	113+61.46	-2.52	760.91	760.91
H	113+71.45	-2.55	760.67	760.64
I	113+81.43	-2.64	760.44	760.37
J	113+91.41	-2.79	760.19	760.11
K	114+01.39	-3.00	759.95	759.85
L	114+11.37	-3.27	759.70	759.60
M	114+21.35	-3.60	759.45	759.37
N	114+31.32	-3.99	759.19	759.13
O	114+41.28	-4.43	758.93	758.91
℄ Brg S Abut	114+47.19	-4.73	758.77	758.77
Back S Abut	114+48.45	-4.79	758.74	758.74

LOCAL TANGENT LINE

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Back N Abut	112+80.54	-1.93	762.56	762.56
℄ Brg N Abut	112+81.80	-1.87	762.54	762.54
A	112+91.78	-1.43	762.33	762.30
B	113+01.77	-1.05	762.12	762.07
C	113+11.75	-0.72	761.91	761.84
D	113+21.75	-0.46	761.69	761.62
E	113+31.74	-0.26	761.47	761.40
F	113+41.74	-0.11	761.24	761.20
G	113+51.74	-0.03	761.01	760.99
N ℄ Brg Pier	113+60.36	0.00	760.81	760.81
℄ Pier	113+61.11	0.00	760.80	760.80
S ℄ Brg Pier	113+61.86	0.00	760.78	760.78
H	113+71.86	-0.03	760.54	760.51
I	113+81.86	-0.13	760.31	760.24
J	113+91.86	-0.28	760.06	759.98
K	114+01.85	-0.49	759.82	759.72
L	114+11.85	-0.76	759.57	759.47
M	114+21.83	-1.10	759.31	759.23
N	114+31.82	-1.49	759.06	759.00
O	114+41.80	-1.93	758.80	758.78
℄ Brg S Abut	114+47.72	-2.23	758.64	758.64
Back S Abut	114+48.98	-2.29	758.61	758.61

PG LINE

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Back N Abut	112+80.75	0.00	762.46	762.46
℄ Brg N Abut	112+82.01	0.00	762.44	762.44
A	112+92.01	0.00	762.26	762.23
B	113+02.01	0.00	762.06	762.02
C	113+12.01	0.00	761.87	761.80
D	113+22.01	0.00	761.66	761.59
E	113+32.01	0.00	761.45	761.39
F	113+42.01	0.00	761.23	761.19
G	113+52.01	0.00	761.01	760.99
N ℄ Brg Pier	113+60.36	0.00	760.81	760.81
℄ Pier	113+61.11	0.00	760.80	760.80
S ℄ Brg Pier	113+61.86	0.00	760.78	760.78
H	113+71.86	0.00	760.54	760.51
I	113+81.86	0.00	760.30	760.23
J	113+91.86	0.00	760.05	759.96
K	114+01.86	0.00	759.79	759.70
L	114+11.86	0.00	759.53	759.43
M	114+21.86	0.00	759.26	759.18
N	114+31.86	0.00	758.98	758.93
O	114+41.86	0.00	758.70	758.68
℄ Brg S Abut	114+48.19	0.00	758.52	758.52
Back S Abut	114+49.47	0.00	758.48	758.48

BEAM -4

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Back N Abut	112+81.12	3.33	762.29	762.29
℄ Brg N Abut	112+82.38	3.39	762.27	762.27
A	112+92.39	3.83	762.06	762.03
B	113+02.41	4.21	761.85	761.80
C	113+12.43	4.53	761.64	761.57
D	113+22.46	4.79	761.42	761.35
E	113+32.48	4.99	761.20	761.14
F	113+42.51	5.13	760.97	760.93
G	113+52.54	5.21	760.74	760.72
N ℄ Brg Pier	113+61.19	5.23	760.54	760.54
℄ Pier	113+61.94	5.23	760.53	760.53
S ℄ Brg Pier	113+62.69	5.23	760.51	760.51
H	113+72.72	5.19	760.27	760.24
I	113+82.75	5.09	760.03	759.97
J	113+92.78	4.93	759.79	759.70
K	114+02.81	4.72	759.55	759.45
L	114+12.83	4.44	759.30	759.20
M	114+22.85	4.10	759.04	758.96
N	114+32.87	3.71	758.78	758.73
O	114+42.88	3.25	758.52	758.50
℄ Brg S Abut	114+48.81	2.95	758.37	758.37
Back S Abut	114+50.08	2.89	758.33	758.33

BEAM -5

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Back N Abut	112+81.98	11.13	761.90	761.90
℄ Brg N Abut	112+83.25	11.19	761.87	761.87
A	112+93.31	11.63	761.66	761.64
B	113+03.37	12.00	761.45	761.40
C	113+13.44	12.31	761.24	761.17
D	113+23.51	12.56	761.02	760.95
E	113+33.59	12.76	760.80	760.74
F	113+43.66	12.89	760.57	760.53
G	113+53.74	12.96	760.34	760.32
N ℄ Brg Pier	113+62.43	12.98	760.14	760.14
℄ Pier	113+63.18	12.98	760.13	760.13
S ℄ Brg Pier	113+63.94	12.98	760.11	760.11
H	113+74.02	12.93	759.87	759.84
I	113+84.09	12.82	759.63	759.57
J	113+94.17	12.66	759.39	759.30
K	114+04.24	12.43	759.14	759.05
L	114+14.31	12.15	758.89	758.80
M	114+24.37	11.80	758.64	758.56
N	114+34.43	11.40	758.38	758.33
O	114+44.49	10.93	758.12	758.10
℄ Brg S Abut	114+50.45	10.63	757.96	757.96
Back S Abut	114+51.73	10.56	757.93	757.93

BEAM -6

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Back N Abut	112+82.85	18.93	761.50	761.50
℄ Brg N Abut	112+84.13	18.99	761.47	761.47
A	112+94.24	19.42	761.27	761.24
B	113+04.35	19.78	761.05	761.01
C	113+14.46	20.09	760.84	760.78
D	113+24.58	20.34	760.62	760.55
E	113+34.70	20.53	760.40	760.34
F	113+44.82	20.65	760.17	760.13
G	113+54.95	20.72	759.94	759.92
N ℄ Brg Pier	113+63.68	20.73	759.74	759.74
℄ Pier	113+64.43	20.73	759.73	759.73
S ℄ Brg Pier	113+65.19	20.72	759.71	759.71
H	113+75.32	20.67	759.47	759.44
I	113+85.44	20.56	759.23	759.17
J	113+95.56	20.38	758.99	758.90
K	114+05.68	20.15	758.74	758.64
L	114+15.80	19.85	758.49	758.39
M	114+25.91	19.50	758.23	758.16
N	114+36.02	19.08	757.98	757.92
O	114+46.12	18.61	757.72	757.69
℄ Brg S Abut	114+52.11	18.30	757.56	757.56
Back S Abut	114+53.39	18.23	757.52	757.52

$DATE$ $TIME$

DESIGNED	JRT
CHECKED	NPP
DRAWN	SOI
CHECKED	NPP

$FILE$

URS
100 South Wacker Drive,
Suite 500
Chicago, IL 60606
(312) 939-1000

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
ILLINOIS ROUTE 31 OVER NEW STEARNS ROAD
KANE COUNTY

TOP OF SLAB ELEVATIONS

F.A.U. 3887
STATION 113+61.11

SECTION 06-00214-06-BR
STRUCTURE NO. 045-2031

SCALE:

DATE: 00/00/2007