

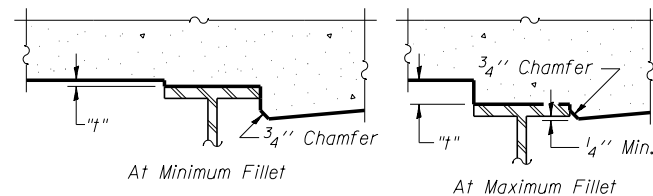
DEAD LOAD DEFLECTION DIAGRAM

DEAD LOAD DEFLECTION TABLE

Beam	Span	A	B	C
CI-C5	4-7	1"	1 3/8"	1"
C6	4-7	1 1/4"	1 3/4"	1 1/4"
R1	4	1 1/2"	2"	1 1/2"
R1	5	1 1/4"	1 3/4"	1 1/4"
R1	6	1 3/8"	2"	1 3/8"
R1	7	1 1/4"	1 3/4"	1 1/4"
R2	4	1 1/4"	1 3/4"	1 1/4"
R2	5	1 1/8"	1 1/2"	1 1/8"
R2	6	1 1/8"	1 1/2"	1 1/8"
R2	7	1"	1 3/8"	1"
R3	4	1 1/4"	1 3/4"	1 1/4"
R3	5	1 1/8"	1 1/2"	1 1/8"
R3	6	1 1/8"	1 1/2"	1 1/8"
R4	4	1 1/4"	1 3/4"	1 1/4"
R4	5	1 1/8"	1 1/2"	1 1/8"
R5	4	1"	1 3/8"	1"
R6	4	5/8"	7/8"	5/8"
R7	4	5/8"	7/8"	5/8"

(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 on SD20 thru SD25.



To determine "t": Elevations of the top flanges of the beams shall be taken at intervals shown herein. These elevations subtracted from the "Theoretical Grade Elevations Adjusted for Dead Load Deflection" shown herein, minus slab thickness, equals the fillet heights "t" above top flange of beams.

FILLET HEIGHTS

BEAM C1

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
CL. PIER 7	56+22.75	-15.43	624.47	624.47
CL. BRG. PIER 7N	56+23.50	-15.43	624.48	624.48
4A	56+33.50	-15.43	624.61	624.66
4B	56+43.50	-15.43	624.74	624.83
4C	56+53.50	-15.43	624.87	624.98
4D	56+63.50	-15.43	625.00	625.12
4E	56+73.50	-15.43	625.14	625.24
4F	56+83.50	-15.43	625.27	625.34
CL. BRG. PIER 8S	56+97.50	-15.43	625.45	625.45
CL. PIER 8	56+98.25	-15.43	625.46	625.46
CL. BRG. PIER 8N	56+99.00	-15.43	625.47	625.47
5A	57+09.00	-15.43	625.61	625.66
5B	57+19.00	-15.43	625.75	625.84
5C	57+29.00	-15.43	625.88	626.00
5D	57+39.00	-15.43	626.02	626.14
5E	57+49.00	-15.43	626.16	626.26
5F	57+59.00	-15.43	626.29	626.36
CL. BRG. PIER 9S	57+73.00	-15.43	626.44	626.44
CL. PIER 9	57+73.75	-15.43	626.45	626.45
CL. BRG. PIER 9N	57+74.50	-15.43	626.46	626.46
6A	57+84.50	-15.43	626.59	626.64
6B	57+94.50	-15.43	626.71	626.81
6C	58+04.50	-15.43	626.86	626.97
6D	58+14.50	-15.43	627.02	627.14
6E	58+24.50	-15.43	627.17	627.28
6F	58+34.50	-15.43	627.33	627.39
CL. BRG. PIER 10S	58+48.50	-15.43	627.54	627.54
CL. PIER 10	58+49.25	-15.43	627.55	627.55
CL. BRG. PIER 10N	58+50.00	-15.43	627.56	627.56
7A	58+60.00	-15.43	627.72	627.77
7B	58+70.00	-15.43	627.87	627.96
7C	58+80.00	-15.43	628.02	628.14
7D	58+90.00	-15.43	628.18	628.30
7E	59+00.00	-15.43	628.33	628.43
7F	59+10.00	-15.43	628.49	628.55
CL. BRG. PIER 11S	59+24.00	-15.43	628.70	628.70
CL. PIER 11	59+24.75	-15.43	628.71	628.71

MAINLINE GORE LINE

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
CL. PIER 7	56+22.75	-12.00	624.53	624.53
CL. BRG. PIER 7N	56+23.50	-12.00	624.53	624.53
4A	56+33.50	-12.00	624.66	624.71
4B	56+43.50	-12.00	624.78	624.87
4C	56+53.50	-12.00	624.91	625.02
4D	56+63.50	-12.00	625.03	625.15
4E	56+73.50	-12.00	625.16	625.26
4F	56+83.50	-12.00	625.29	625.36
CL. BRG. PIER 8S	56+97.50	-12.00	625.48	625.48
CL. PIER 8	56+98.25	-12.00	625.49	625.49
CL. BRG. PIER 8N	56+99.00	-12.00	625.50	625.50
5A	57+09.00	-12.00	625.63	625.68
5B	57+19.00	-12.00	625.77	625.86
5C	57+29.00	-12.00	625.90	626.02
5D	57+39.00	-12.00	626.04	626.16
5E	57+49.00	-12.00	626.18	626.28
5F	57+59.00	-12.00	626.32	626.39
CL. BRG. PIER 9S	57+73.00	-12.00	626.52	626.52
CL. PIER 9	57+73.75	-12.00	626.53	626.53
CL. BRG. PIER 9N	57+74.50	-12.00	626.55	626.55
6A	57+84.50	-12.00	626.69	626.74
6B	57+94.50	-12.00	626.84	626.93
End	58+01.46	-12.00	626.94	627.05

Note:
Offset measured perpendicular to SB IL-171

benesch
engineers - scientists - planners
Alfred Benesch & Company
205 North Michigan Avenue, Suite 2400
Chicago, Illinois 60601
312-565-0450 Job No. 10093

FILE NAME =	USER NAME = ksnider	DESIGNED - DTS	REVISED -
		CHECKED - AJK	REVISED -
		DRAWN - KMS	REVISED -
		CHECKED - AJK	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TOP OF SLAB ELEVATIONS UNIT C (1 OF 6)
STRUCTURE NO. 016-2457

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
372	2013-038B-R	COOK	821	395
CONTRACT NO. 60J16			ILLINOIS FED. AID PROJECT	

SHEET NO. SD20 OF SD83 SHEETS

Y:\chicago\100005\100093\Eng_Docs_Phase_1\SN_016-2456-2457-1st-Ave-over-Des-Plaines-River-Valley\Final\0162457-Final\0162457-TOS-Elev-Unit-C.1-of-6.dgn 3:40:02 PM 8/6/2014