

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

GIRDER NG12

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
☉ Pier 9	23+78.13	-57.24	630.31	630.31
☉ N. Brg. Pier 9	23+79.07	-57.22	630.31	630.31
X	23+89.07	-57.05	630.34	630.38
Y	23+99.07	-56.88	630.37	630.44
Z	24+09.07	-56.71	630.39	630.50
A1	24+19.07	-56.54	630.42	630.54
B1	24+29.07	-56.37	630.45	630.58
C1	24+39.07	-56.20	630.48	630.61
D1	24+49.07	-56.03	630.50	630.63
E1	24+59.07	-55.86	630.53	630.64
F1	24+69.07	-55.68	630.56	630.64
G1	24+79.07	-55.51	630.59	630.65
H1	24+89.07	-55.34	630.61	630.65
I1	24+99.07	-55.17	630.64	630.65
J1	25+09.07	-55.00	630.68	630.67
K1	25+19.07	-54.83	630.73	630.72
☉ Brg. Pier 10	25+33.79	-54.58	630.81	630.81
L1	25+43.79	-54.41	630.86	630.88
M1	25+53.79	-54.24	630.91	630.96
N1	25+63.79	-54.07	630.96	631.05
O1	25+73.79	-53.89	631.01	631.15
P1	25+83.79	-53.72	631.07	631.25
Q1	25+93.79	-53.55	631.12	631.35
R1	26+03.79	-53.38	631.17	631.45
S1	26+13.79	-53.21	631.22	631.54
T1	26+23.79	-53.04	631.27	631.62
U1	26+33.79	-52.87	631.33	631.69
V1	26+43.79	-52.70	631.38	631.75
W1	26+53.79	-52.53	631.43	631.79
X1	26+63.79	-52.36	631.48	631.82
Y1	26+73.79	-52.18	631.53	631.83
Z1	26+83.79	-52.01	631.59	631.83
A2	26+93.79	-51.84	631.64	631.82
B2	27+03.79	-51.67	631.69	631.80
☉ Brg. Pier 11	27+18.79	-51.42	631.77	631.77

GIRDER NG11

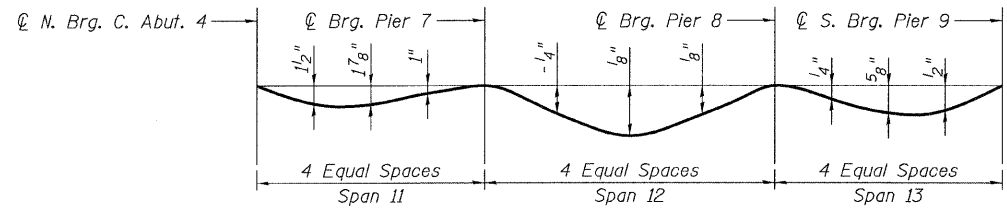
Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
☉ Pier 9	23+81.02	-49.94	630.35	630.35
☉ N. Brg. Pier 9	23+81.96	-49.94	630.35	630.35
X	23+91.96	-49.85	630.38	630.42
Y	24+01.96	-49.77	630.42	630.49
Z	24+11.96	-49.68	630.45	630.55
A1	24+21.96	-49.60	630.48	630.60
B1	24+31.96	-49.51	630.51	630.64
C1	24+41.96	-49.43	630.54	630.67
D1	24+51.96	-49.34	630.57	630.70
E1	24+61.96	-49.26	630.61	630.71
F1	24+71.96	-49.17	630.64	630.72
G1	24+81.96	-49.09	630.67	630.73
H1	24+91.96	-49.00	630.70	630.73
I1	25+01.96	-48.91	630.73	630.74
J1	25+11.96	-48.83	630.76	630.76
K1	25+21.96	-48.74	630.80	630.79
☉ Brg. Pier 10	25+36.68	-48.62	630.84	630.84
L1	25+46.68	-48.53	630.87	630.90
M1	25+56.68	-48.45	630.91	630.96
N1	25+66.68	-48.36	630.94	631.03
O1	25+76.68	-48.28	630.97	631.10
P1	25+86.68	-48.19	631.00	631.18
Q1	25+96.68	-48.10	631.04	631.27
R1	26+06.68	-48.02	631.09	631.36
S1	26+16.68	-47.93	631.15	631.45
T1	26+26.68	-47.85	631.20	631.53
U1	26+36.68	-47.76	631.25	631.60
V1	26+46.68	-47.68	631.31	631.66
W1	26+56.68	-47.59	631.36	631.71
X1	26+66.68	-47.51	631.41	631.73
Y1	26+76.68	-47.42	631.47	631.75
Z1	26+86.68	-47.34	631.52	631.75
A2	26+96.68	-47.25	631.57	631.75
B2	27+06.68	-47.16	631.63	631.73
☉ Brg. Pier 11	27+21.68	-47.04	631.71	631.71

PGL

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
☉ Pier 9	24+00.85	0.00	631.27	631.27
☉ N. Brg. Pier 9	24+01.80	0.00	631.28	631.28
X	24+11.80	0.00	631.31	631.38
Y	24+21.80	0.00	631.34	631.48
Z	24+31.80	0.00	631.37	631.57
A1	24+41.80	0.00	631.40	631.64
B1	24+51.80	0.00	631.43	631.71
C1	24+61.80	0.00	631.46	631.76
D1	24+71.80	0.00	631.49	631.79
E1	24+81.80	0.00	631.52	631.81
F1	24+91.80	0.00	631.55	631.81
G1	25+01.80	0.00	631.58	631.80
H1	25+11.80	0.00	631.61	631.79
I1	25+21.80	0.00	631.64	631.77
J1	25+31.80	0.00	631.67	631.75
K1	25+41.80	0.00	631.70	631.74
☉ Brg. Pier 10	25+56.51	0.00	631.74	631.74
L1	25+66.51	0.00	631.77	631.75
M1	25+76.51	0.00	631.80	631.78
N1	25+86.51	0.00	631.83	631.81
O1	25+96.51	0.00	631.86	631.84
P1	26+01.51	0.00	631.87	631.87
Q1	26+06.51	0.00	631.89	631.89
R1	26+16.51	0.00	631.92	631.92
S1	26+26.51	0.00	631.98	631.98
T1	26+36.51	0.00	632.01	632.01
U1	26+46.51	0.00	632.04	632.03
V1	26+56.51	0.00	632.07	632.04
W1	26+66.51	0.00	632.10	632.06
X1	26+76.51	0.00	632.13	632.07
Y1	26+86.51	0.00	632.16	632.09
Z1	27+06.51	0.00	632.19	632.12
A2	27+16.51	0.00	632.22	632.15
B2	27+26.51	0.00	632.25	632.20
☉ Brg. Pier 11	27+41.51	0.00	632.29	632.29

GIRDER NG13

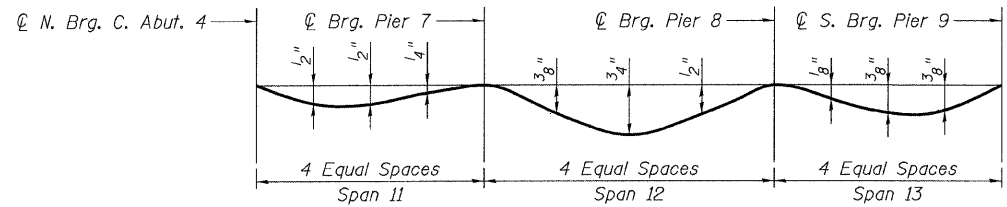
Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
☉ Pier 9	24+18.89	45.44	630.68	630.68
☉ N. Brg. Pier 9	24+19.84	45.44	630.68	630.68
X	24+29.84	45.44	630.71	630.73
Y	24+39.84	45.44	630.74	630.79
Z	24+49.84	45.44	630.77	630.83
A1	24+59.84	45.44	630.80	630.88
B1	24+69.84	45.44	630.83	630.91
C1	24+79.84	45.44	630.86	630.94
D1	24+89.84	45.44	630.89	630.96
E1	24+99.84	45.44	630.92	630.98
F1	25+09.84	45.44	630.95	630.99
G1	25+19.84	45.44	630.98	631.00
H1	25+29.84	45.44	631.01	631.01
I1	25+39.84	45.44	631.04	631.03
J1	25+49.84	45.44	631.07	631.05
K1	25+59.84	45.44	631.10	631.08
☉ Brg. Pier 10	25+74.55	45.44	631.14	631.14
L1	25+84.55	45.44	631.17	631.20
M1	25+94.55	45.44	631.20	631.26
N1	26+04.55	45.44	631.23	631.32
O1	26+14.55	45.44	631.26	631.39
P1	26+24.55	45.44	631.29	631.47
Q1	26+34.55	45.44	631.32	631.54
R1	26+44.55	45.44	631.35	631.61
S1	26+54.55	45.44	631.38	631.68
T1	26+64.55	45.44	631.42	631.74
U1	26+74.55	45.44	631.46	631.79
V1	26+84.55	45.44	631.50	631.84
W1	26+94.55	45.44	631.54	631.87
X1	27+04.55	45.44	631.58	631.88
Y1	27+14.55	45.44	631.62	631.89
Z1	27+24.55	45.44	631.66	631.88
A2	27+34.55	45.44	631.70	631.86
B2	27+44.55	45.44	631.74	631.84
☉ Brg. Pier 11	27+59.55	45.44	631.80	631.80



DEAD LOAD DEFLECTION DIAGRAM (GIRDER NG3 & NG7)

(includes weight of concrete only)

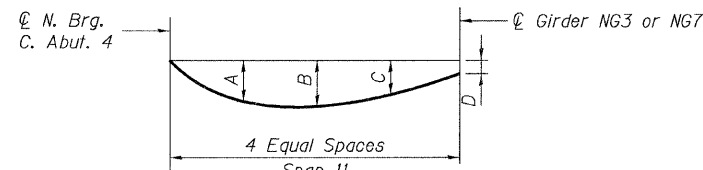
Note: The above deflections are not to be used in the field if the engineer is working from the grade elevations adjusted for dead load deflections as shown above.



DEAD LOAD DEFLECTION DIAGRAM (GIRDER NG1 & NG2)

(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.

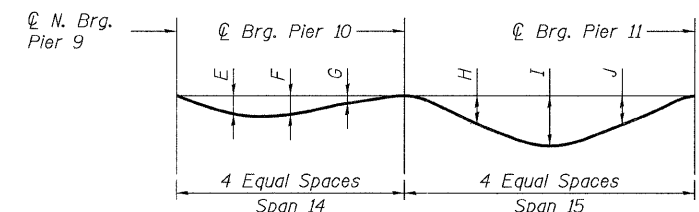


DEAD LOAD DEFLECTION DIAGRAM (GIRDERS NG4 THRU NG6 AND NG8 THRU NG10)

(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.

Girder	A	B	C	D
NG6	1/4"	3/8"	1/4"	1 3/4"
NG5	1/8"	1/8"	1/8"	1 7/8"
NG4	0"	0"	0"	1 2"
NG8	0"	1/8"	0"	1 1/8"
NG9	0"	0"	0"	1 3/8"
NG10	1/8"	1/8"	1/8"	1 2"



DEAD LOAD DEFLECTION DIAGRAM (GIRDER NG11 THRU NG13)

(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.

Girder	F	G	H	I	J	
NG12	1 3/8"	1 3/8"	1/4"	2"	4 1/4"	3 5/8"
NG11	1 3/8"	1 3/8"	1/4"	1 7/8"	4"	3 1/2"
NG13	0"	1/8"	3/4"	1 7/8"	3 7/8"	3 1/4"

TOP OF SLAB ELEVATIONS 3  
STRUCTURE NO. 016-3240

TYLIN INTERNATIONAL	DESIGNED - DY, LS	REVISIONS		SHEET NO. 9	F.A.I. RTE. 55	SECTION 0711.2R & 1011.1BR	COUNTY COOK	TOTAL SHEETS 200	SHEET NO. 176
	CHECKED - AMD, LS	NAME	DATE						
	DRAWN - DY, LS								
	CHECKED - AMD, LS								
	DATE - 08/02/10			33 SHEETS	CONTRACT NO. 60L39				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT									