

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

GIRDER G2.11

LOCATION	STATION	OFFSET	THEORETICAL GRADE ELEVATIONS	THEORETICAL GRADE ELEVATIONS ADJUSTED FOR DEAD LOAD DEFLECTIONS
℄ G2.9	398+95.41	-30.50	627.99	628.09
G1	398+98.83	-32.27	628.00	628.10
H1	399+08.83	-37.29	628.24	628.30
I1	399+18.83	-42.32	628.47	628.51
J1	399+28.83	-47.35	628.72	628.72
℄ S. Brg. C. Abut. 4	399+29.62	-47.75	628.75	628.75

P.G.L. RAMP 2 FLARE

LOCATION	STATION	OFFSET	THEORETICAL GRADE ELEVATIONS	THEORETICAL GRADE ELEVATIONS ADJUSTED FOR DEAD LOAD DEFLECTIONS
Back of R2 Abut.	397+58.38	0.00	624.41	624.41
℄ Joint R2 Abut.	397+60.63	0.00	624.48	624.48
℄ E. Brg. R2 Abut.	397+61.38	0.00	624.50	624.50
U	397+71.38	0.00	624.80	624.82
V	397+81.38	0.00	625.10	625.13
W	397+91.38	0.00	625.40	625.44
X	398+01.38	0.00	625.70	625.74
Y	398+11.38	0.00	626.00	626.03
Z	398+21.38	0.00	626.30	626.32
A1	398+31.38	0.00	626.60	626.61
℄ R2 Pier	398+38.83	0.00	626.81	626.82
B1	398+48.83	0.00	627.06	627.08
C1	398+58.83	0.00	627.31	627.35
D1	398+68.83	0.00	627.56	627.61
E1	398+78.83	0.00	627.81	627.87
F1	398+88.83	0.00	628.06	628.13
G1	398+98.83	0.00	628.31	628.37
H1	399+08.83	0.00	628.56	628.61
I1	399+18.83	0.00	628.81	628.84
℄ G22	399+23.16	0.00	628.92	628.94

GIRDER G2.20

LOCATION	STATION	OFFSET	THEORETICAL GRADE ELEVATIONS	THEORETICAL GRADE ELEVATIONS ADJUSTED FOR DEAD LOAD DEFLECTIONS
℄ FB2.4	398+18.38	28.00	626.63	626.64
Z	398+21.38	28.00	626.72	626.73
A1	398+31.38	28.00	627.02	627.03
℄ R2 Pier	398+38.83	28.00	627.23	627.23
B1	398+48.83	28.00	627.44	627.46
C1	398+58.83	28.00	627.66	627.68
D1	398+68.83	28.00	627.87	627.90
E1	398+78.83	28.00	628.09	628.12
F1	398+88.83	28.00	628.30	628.33
G1	398+98.83	28.00	628.52	628.54
H1	399+08.83	28.00	628.73	628.74
℄ G22	399+12.04	28.00	628.81	628.81

GIRDER G2.12

LOCATION	STATION	OFFSET	THEORETICAL GRADE ELEVATIONS	THEORETICAL GRADE ELEVATIONS ADJUSTED FOR DEAD LOAD DEFLECTIONS
Back of R2 Abut.	397+64.38	21.50	624.91	624.91
℄ Joint R2 Abut.	397+62.13	21.50	624.84	624.84
℄ E. Brg. R2 Abut.	397+61.38	21.50	624.82	624.82
U	397+71.38	21.76	625.13	625.14
V	397+81.38	22.64	625.44	625.46
W	397+91.38	24.10	625.76	625.78
X	398+01.38	26.16	626.09	626.11
Y	398+11.38	28.85	626.43	626.45
Z	398+21.38	32.18	626.78	626.80
A1	398+31.38	36.21	627.14	627.16
℄ R2 Pier	398+38.83	39.69	627.41	627.42
B1	398+48.83	45.06	627.68	627.70
C1	398+58.83	51.32	627.94	627.97
D1	398+68.83	58.58	628.19	628.21
E1	398+78.83	67.02	628.38	628.40
F1	398+88.83	76.88	628.51	628.52
℄ G22	398+91.49	79.78	628.49	628.50

GIRDER G2.17

LOCATION	STATION	OFFSET	THEORETICAL GRADE ELEVATIONS	THEORETICAL GRADE ELEVATIONS ADJUSTED FOR DEAD LOAD DEFLECTIONS
℄ FB - 2.6	398+57.41	47.50	627.87	627.90
C1	398+58.83	47.50	627.90	627.93
D1	398+68.83	47.50	628.08	628.11
E1	398+78.83	47.50	628.26	628.30
F1	398+88.83	47.50	628.44	628.47
G1	398+98.83	47.50	628.62	628.64
℄ G22	399+04.30	47.50	628.72	628.73

GIRDER G2.13

LOCATION	STATION	OFFSET	THEORETICAL GRADE ELEVATIONS	THEORETICAL GRADE ELEVATIONS ADJUSTED FOR DEAD LOAD DEFLECTIONS
℄ G2.12	398+86.55	75.50	624.48	624.49
F1	398+88.83	73.50	628.51	628.52
℄ G22	398+93.98	73.50	628.55	628.56

GIRDER G2.14

LOCATION	STATION	OFFSET	THEORETICAL GRADE ELEVATIONS	THEORETICAL GRADE ELEVATIONS ADJUSTED FOR DEAD LOAD DEFLECTIONS
℄ G2.12	398+78.83	67.00	628.39	628.41
F1	398+88.83	67.00	628.51	628.53
℄ G22	398+96.56	67.00	628.60	628.61

GIRDER G2.18

LOCATION	STATION	OFFSET	THEORETICAL GRADE ELEVATIONS	THEORETICAL GRADE ELEVATIONS ADJUSTED FOR DEAD LOAD DEFLECTIONS
℄ FB - 2.5	398+46.83	41.00	627.58	627.60
B1	398+48.83	41.00	627.62	627.65
C1	398+58.83	41.00	627.82	627.86
D1	398+68.83	41.00	628.01	628.06
E1	398+78.83	41.00	628.21	628.25
F1	398+88.83	41.00	628.40	628.44
G1	398+98.83	41.00	628.60	628.62
℄ G22	399+06.88	41.00	628.76	628.77

GIRDER G2.15

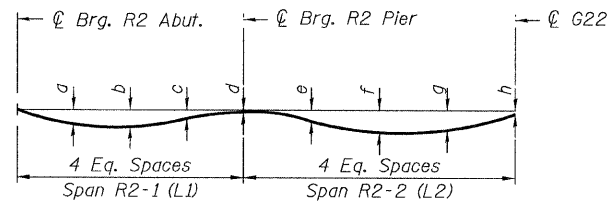
LOCATION	STATION	OFFSET	THEORETICAL GRADE ELEVATIONS	THEORETICAL GRADE ELEVATIONS ADJUSTED FOR DEAD LOAD DEFLECTIONS
℄ G2.12	398+74.38	60.50	628.24	628.27
E1	398+78.83	60.50	628.34	628.37
F1	398+88.83	60.50	628.48	628.50
G1	398+98.83	60.50	628.62	628.63
℄ G22	398+99.14	60.50	628.65	628.66

GIRDER G2.16

LOCATION	STATION	OFFSET	THEORETICAL GRADE ELEVATIONS	THEORETICAL GRADE ELEVATIONS ADJUSTED FOR DEAD LOAD DEFLECTIONS
℄ G2.12	398+66.78	54.00	628.04	628.07
D1	398+68.83	54.00	628.14	628.17
E1	398+78.83	54.00	628.31	628.34
F1	398+88.83	54.00	628.47	628.50
G1	398+98.83	54.00	628.64	628.66
℄ G22	399+01.72	54.00	628.69	628.70

GIRDER G2.19

LOCATION	STATION	OFFSET	THEORETICAL GRADE ELEVATIONS	THEORETICAL GRADE ELEVATIONS ADJUSTED FOR DEAD LOAD DEFLECTIONS
℄ R2 Pier	398+38.83	34.50	627.33	627.34
B1	398+48.83	34.50	627.53	627.57
C1	398+58.83	34.50	627.74	627.79
D1	398+68.83	34.50	627.95	628.00
E1	398+78.83	34.50	628.15	628.21
F1	398+88.83	34.50	628.36	628.40
G1	398+98.83	34.50	628.56	628.59
H1	399+08.83	34.50	628.77	628.78
℄ G22	399+09.46	34.50	628.79	628.79



DEAD LOAD DEFLECTION DIAGRAM

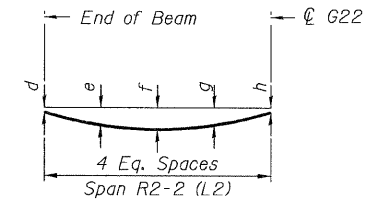
(Includes weight of concrete only.)

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.

Girder	a	b	c	d	e	f	g	h	L1	L2
G2.1*	-	3"	6"	0	4"	3"	4"	0	75'-9 1/2"	75'-9 1/2"
G2.2	5"	3"	3"	0	1"	3"	4"	1"	77'-5 3/8"	78'-4 3/4"
G2.3	1 1/2"	5"	4"	0	3"	5"	2"	1"	77'-5 3/8"	80'-11 3/4"
G2.4	3"	2"	4"	1"	1"	3"	4"	1"	77'-5 3/8"	83'-6 3/4"
G2.5	3"	2"	4"	1"	5"	1"	7"	1"	77'-5 3/8"	86'-1 3/4"
G2.6	3"	3"	1"	0	5"	14"	1 1/2"	3"	77'-5 3/8"	88'-8 5/8"
G2.7	3"	3"	1"	0	3"	1 1/2"	1 1/2"	3"	77'-5 3/8"	91'-3 5/8"
G2.8	3"	3"	1"	0	3"	1 1/2"	1 1/2"	3"	77'-5 3/8"	93'-10 5/8"
G2.9	-	-	-	0	7"	14"	1"	1"	-	96'-5 5/8"
G2.10	-	-	-	7"	-	1"	-	1"	-	29'-6 3/8"
G2.10A	-	-	-	3"	-	1"	-	1"	-	19'-2 1/4"
G2.11	-	-	-	14"	1"	5"	3"	0	-	38'-3 3/8"
G2.12	4"	1 1/4"	1 1/4"	1"	1"	3"	4"	1"	80'-3 1/4"	146'-10 1/4"
G2.13	-	-	-	1"	-	1"	-	1"	-	8'-5 3/4"
G2.14	-	-	-	1"	-	1"	-	1"	-	17'-10 1/2"
G2.15	-	-	-	3"	-	1"	-	1"	-	27'-11 1/8"
G2.16	-	-	-	3"	3"	3"	3"	1"	-	39'-1 1/2"
G2.17	-	-	-	3"	2"	1"	3"	1"	-	46'-11"
G2.18	-	-	-	1 1/4"	1 1/2"	5"	3"	1"	-	60'-1"
G2.19	-	-	-	8"	8"	3"	2"	0	-	70'-7 1/8"
G2.20	-	-	-	0	4"	3"	4"	0	-	73'-2 1/8"

\* For G2.1 only, b is end of girder and c is midspan



DEAD LOAD DEFLECTION DIAGRAM

(Includes weight of concrete only.)

TOP OF SLAB ELEV. - 2  
RAMP 2 FLARE  
STRUCTURE NO. 016-0724

TYLIN INTERNATIONAL	DESIGNED - JPM, EKH	REVISIONS		SHEET NO. 24	F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.					
	CHECKED - AMD,	NAME	DATE		55					0711.2R & 1011.1BR	COOK	200	54	
	DRAWN - JPM, EKH				137 SHEETS					CONTRACT NO. 60L39				
	CHECKED - AMD,				FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT									
	DATE - 08/02/10													