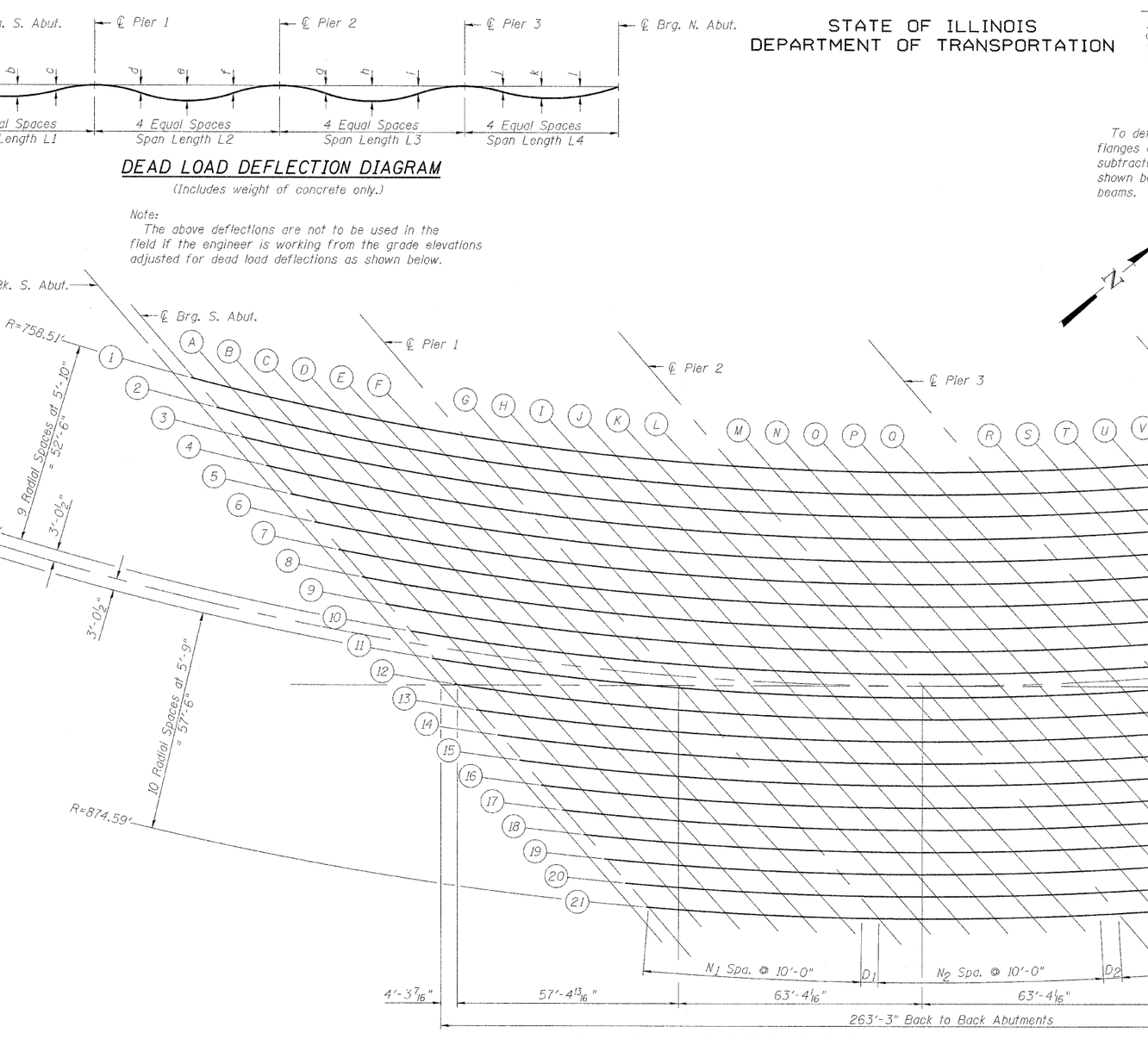
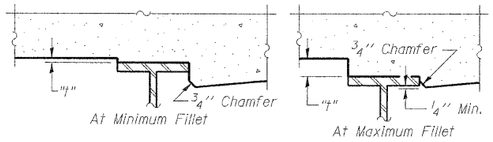
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

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.





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.

FILLET HEIGHTS

INCREMENT NUMBER AND END OF SPAN DIMENSIONS

Location	Span 1		Span 2		Span 3		Span 4	
	N1	D1	N2	D2	N3	D3	N4	D4
Girder 1	6	11'-5 1/4"	6	10'-6 5/8"	5	14'-7 3/8"	6	7'-7/16"
Girder 2	6	10'-6 5/16"	6	9'-11 3/16"	5	14'-2 5/8"	6	6'-9"
Girder 3	6	9'-8 1/16"	6	9'-4 1/8"	5	13'-10 1/16"	6	6'-5 5/8"
Girder 4	6	8'-10 1/8"	6	8'-9 7/16"	5	13'-5 11/16"	6	6'-2 3/8"
Girder 5	6	8'-1 1/4"	6	8'-3"	5	13'-1 1/16"	6	5'-11 1/4"
Girder 6	6	7'-4 9/16"	6	7'-8 7/8"	5	12'-9 3/8"	6	5'-8 1/4"
Girder 7	6	6'-8 3/8"	6	7'-3"	5	12'-5 1/2"	6	5'-5 5/16"
Girder 8	6	6'-5/8"	6	6'-9 7/16"	5	12'-1 3/4"	6	5'-2 1/2"
Girder 9	6	5'-5 1/4"	6	6'-4 1/16"	5	11'-10 1/8"	5	14'-11 3/4"
Girder 10	6	4'-10 3/16"	6	5'-10 7/8"	5	11'-6 5/8"	5	14'-9 1/8"
Girder 11	5	14'-3 3/16"	6	5'-5 3/4"	5	11'-3 1/8"	5	14'-6 1/16"
Girder 12	5	13'-8 1/8"	6	5'-1 1/16"	5	10'-11 1/2"	5	14'-4"
Girder 13	5	13'-2 7/8"	5	14'-8 3/16"	5	10'-8 13/16"	5	14'-1 5/8"
Girder 14	5	12'-9 1/8"	5	14'-4 3/16"	5	10'-5 13/16"	5	13'-11 5/16"
Girder 15	5	12'-3 5/8"	5	14'-0"	5	10'-2 1/8"	5	13'-9 1/16"
Girder 16	5	11'-10 5/16"	5	13'-8"	5	10'-1/8"	5	13'-6 15/16"
Girder 17	5	11'-5 1/4"	5	13'-4 1/2"	5	9'-9 3/8"	5	13'-4 13/16"
Girder 18	5	11'-3/8"	5	13'-3/8"	5	9'-6 3/4"	5	13'-2 3/4"
Girder 19	5	10'-7 3/4"	5	12'-8 3/4"	5	9'-4 3/16"	5	13'-3/4"
Girder 20	5	10'-3 1/4"	5	12'-5 1/4"	5	9'-1 1/16"	5	12'-10 13/16"
Girder 21	5	9'-10 7/8"	5	12'-1 7/8"	5	8'-11 5/16"	5	12'-8 15/16"

DEAD LOAD DEFLECTION TABLE

Location		Girder 1	Girder 2	Girder 3 to 5	Girder 6 to 8	Girder 9	Girder 10	Girder 11	Girder 12	Girder 13 to 20	Girder 21
Span 1	a	3/4"	5/8"	3/8"	1/4"	3/8"	3/8"	3/8"	3/8"	3/8"	3/8"
	b	1 7/8"	1 3/4"	1 5/8"	1 3/8"	1 3/8"	1 1/2"	1 1/2"	1 5/8"	1 5/8"	1 5/8"
	c	1/2"	0	1/4"	1/8"	1/4"	1/8"	1/8"	1/8"	1/8"	1/8"
Span 2	d	0	0	0	0	1/8"	1/8"	1/8"	1/8"	1/8"	1/8"
	e	1/8"	1/8"	1/8"	1/8"	1/8"	1/4"	1/4"	1/4"	1/4"	1/4"
	f	1/8"	1/8"	1/8"	1/8"	1/8"	1/8"	1/8"	1/8"	1/8"	1/8"
Span 3	g	0	0	0	0	0	0	0	0	0	0
	h	1/8"	1/8"	0	0	0	0	0	0	0	0
	i	0	0	0	0	0	0	0	0	0	0
Span 4	j	1/4"	1/4"	1/4"	1/4"	1/4"	3/8"	3/8"	3/8"	3/8"	3/8"
	k	5/8"	1/2"	1/2"	1/2"	5/8"	5/8"	5/8"	5/8"	5/8"	5/8"
	l	1/2"	1/2"	3/8"	3/8"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"

TOP OF SLAB ELEVATIONS
PLAN AND DETAILS
STRUCTURE NO. 101-0190

SHEET NO. 7	F.A.* RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
61 SHEETS	*	1-HBR & 1-2HB-D	WINNEBAGO	216	62
	IL RTE 251 & FOREST HILLS RD		CONTRACT NO. 64B79		
	FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT		

* F.A.P. 303 & F.A.U. 5146

DESIGNED	JY
CHECKED	GSP
DRAWN	MJB
CHECKED	JY

ENTRAN

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