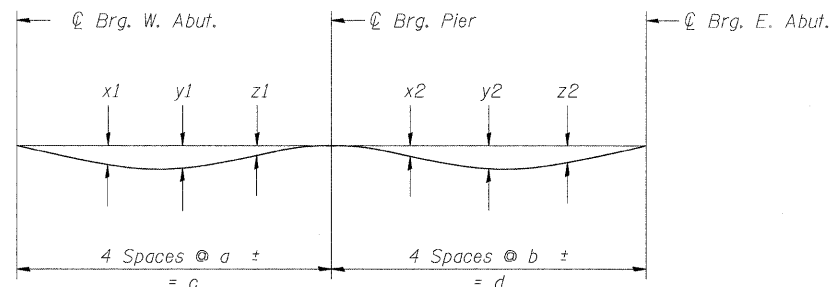


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DEPARTMENT OF TRANSPORTATION

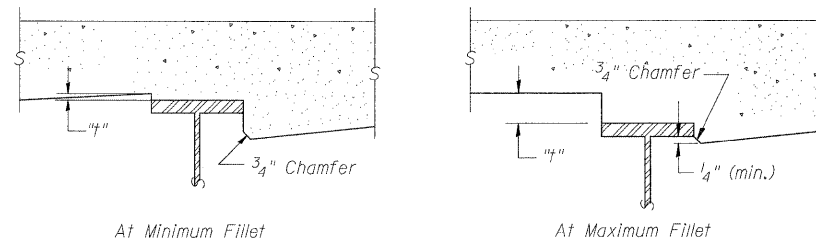


**DEAD LOAD DEFLECTION DIAGRAM**  
(Includes Weight of Concrete Only)

Notes:

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 shown in Sheets 8 and 9 of 34

Beam No.	Quarter Point of Span Length (along beam line)		Span Length	
	Span 1	Span 2	Span 1	Span 2
	a	b	c	d
Beam 1	23'-0 <sup>11</sup> / <sub>16</sub> "	23'-0 <sup>3</sup> / <sub>16</sub> "	92'-2 <sup>13</sup> / <sub>16</sub> "	92'-0 <sup>3</sup> / <sub>4</sub> "
Beam 2	23'-0 <sup>1</sup> / <sub>2</sub> "	23'-0 <sup>1</sup> / <sub>8</sub> "	92'-1 <sup>15</sup> / <sub>16</sub> "	92'-0 <sup>9</sup> / <sub>16</sub> "
Beam 3	23'-0 <sup>5</sup> / <sub>16</sub> "	23'-0 <sup>1</sup> / <sub>16</sub> "	92'-1 <sup>3</sup> / <sub>16</sub> "	92'-0 <sup>5</sup> / <sub>16</sub> "
Beam 4	23'-0 <sup>1</sup> / <sub>8</sub> "	23'-0"	92'-0 <sup>3</sup> / <sub>8</sub> "	92'-0 <sup>1</sup> / <sub>16</sub> "
IL RT 158	--	--	92'-0 <sup>1</sup> / <sub>16</sub> "	92'-0"
Beam 5	22'-11 <sup>15</sup> / <sub>16</sub> "	23'-0"	91'-11 <sup>3</sup> / <sub>4</sub> "	91'-11 <sup>15</sup> / <sub>16</sub> "
Beam 6	22'-11 <sup>3</sup> / <sub>4</sub> "	22'-11 <sup>15</sup> / <sub>16</sub> "	91'-11 <sup>1</sup> / <sub>16</sub> "	91'-11 <sup>1</sup> / <sub>16</sub> "
Beam 7	22'-11 <sup>9</sup> / <sub>16</sub> "	22'-11 <sup>7</sup> / <sub>8</sub> "	91'-10 <sup>5</sup> / <sub>16</sub> "	91'-11 <sup>1</sup> / <sub>2</sub> "
Beam 8	22'-11 <sup>7</sup> / <sub>16</sub> "	22'-11 <sup>13</sup> / <sub>16</sub> "	91'-9 <sup>5</sup> / <sub>8</sub> "	91'-11 <sup>5</sup> / <sub>16</sub> "

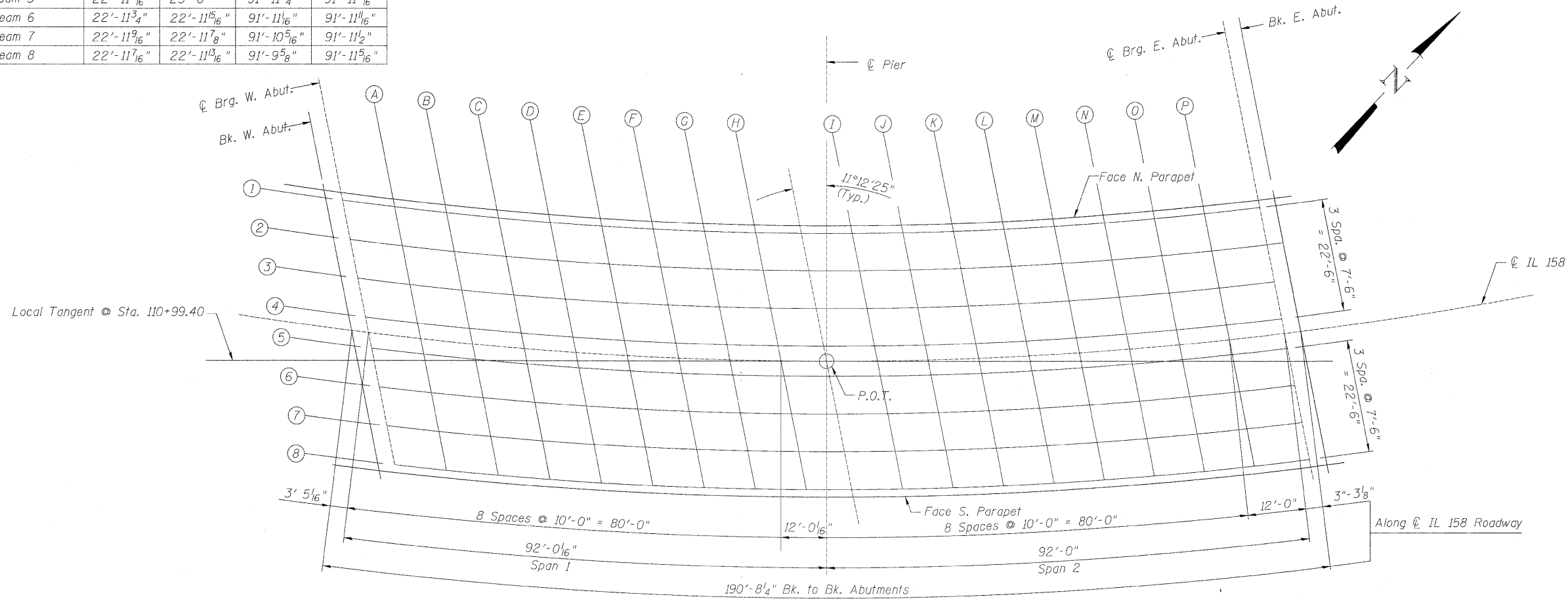


To determine "t": After all structural steel has been erected, elevations of the top flanges of the girders shall be taken at intervals shown below. These elevations subtracted from the "Theoretical Grade Elevations Adjusted for Dead Load Deflection" shown in Sheet 8 and 9, minus slab thickness, equals the fillet heights "t" above top flange of girders.

**FILLET HEIGHTS**

**DEAD LOAD DEFLECTION TABLE**

Location	Span 1			Span 2		
	x1 (in)	y1 (in)	z1 (in)	x2 (in)	y2 (in)	z2 (in)
Face North Parapet	5 <sup>5</sup> / <sub>8</sub>	5 <sup>5</sup> / <sub>8</sub>	3 <sup>3</sup> / <sub>8</sub>	1 <sup>1</sup> / <sub>4</sub>	5 <sup>5</sup> / <sub>8</sub>	5 <sup>5</sup> / <sub>8</sub>
Beam 1	5 <sup>5</sup> / <sub>8</sub>	5 <sup>5</sup> / <sub>8</sub>	3 <sup>3</sup> / <sub>8</sub>	1 <sup>1</sup> / <sub>4</sub>	5 <sup>5</sup> / <sub>8</sub>	5 <sup>5</sup> / <sub>8</sub>
Beam 2	5 <sup>5</sup> / <sub>8</sub>	3 <sup>3</sup> / <sub>4</sub>	3 <sup>3</sup> / <sub>8</sub>	3 <sup>3</sup> / <sub>8</sub>	3 <sup>3</sup> / <sub>4</sub>	5 <sup>5</sup> / <sub>8</sub>
Beam 3	5 <sup>5</sup> / <sub>8</sub>	3 <sup>3</sup> / <sub>4</sub>	3 <sup>3</sup> / <sub>8</sub>	3 <sup>3</sup> / <sub>8</sub>	3 <sup>3</sup> / <sub>4</sub>	5 <sup>5</sup> / <sub>8</sub>
Beam 4 & WB PGL	5 <sup>5</sup> / <sub>8</sub>	3 <sup>3</sup> / <sub>4</sub>	3 <sup>3</sup> / <sub>8</sub>	3 <sup>3</sup> / <sub>8</sub>	3 <sup>3</sup> / <sub>4</sub>	5 <sup>5</sup> / <sub>8</sub>
Beam 5 & EB PGL	1 <sup>1</sup> / <sub>2</sub>	5 <sup>5</sup> / <sub>8</sub>	3 <sup>3</sup> / <sub>8</sub>	1 <sup>1</sup> / <sub>4</sub>	5 <sup>5</sup> / <sub>8</sub>	1 <sup>1</sup> / <sub>2</sub>
Beam 6	5 <sup>5</sup> / <sub>8</sub>	3 <sup>3</sup> / <sub>4</sub>	3 <sup>3</sup> / <sub>8</sub>	3 <sup>3</sup> / <sub>8</sub>	3 <sup>3</sup> / <sub>4</sub>	5 <sup>5</sup> / <sub>8</sub>
Beam 7	5 <sup>5</sup> / <sub>8</sub>	3 <sup>3</sup> / <sub>4</sub>	3 <sup>3</sup> / <sub>8</sub>	3 <sup>3</sup> / <sub>8</sub>	3 <sup>3</sup> / <sub>4</sub>	5 <sup>5</sup> / <sub>8</sub>
Beam 8	5 <sup>5</sup> / <sub>8</sub>	3 <sup>3</sup> / <sub>4</sub>	3 <sup>3</sup> / <sub>8</sub>	3 <sup>3</sup> / <sub>8</sub>	3 <sup>3</sup> / <sub>4</sub>	5 <sup>5</sup> / <sub>8</sub>
Face South Parapet	5 <sup>5</sup> / <sub>8</sub>	3 <sup>3</sup> / <sub>4</sub>	3 <sup>3</sup> / <sub>8</sub>	3 <sup>3</sup> / <sub>8</sub>	3 <sup>3</sup> / <sub>4</sub>	5 <sup>5</sup> / <sub>8</sub>



**PLAN**

**TOP OF DECK ELEVATION I  
STRUCTURE NO. 067-0042**

DESIGNED - JPM
CHECKED - CCS
DRAWN - MD
CHECKED - JPM, CCS



9-28-09

SHEET NO. 7 34 SHEETS	F.A.P RTE. 809	SECTION 67-1HBR	COUNTY Monroe	TOTAL SHEETS 144	SHEET NO. 71
	FED. ROAD DIST. NO. 7 ILLINOIS FED. AID PROJECT			CONTRACT NO. 76977	