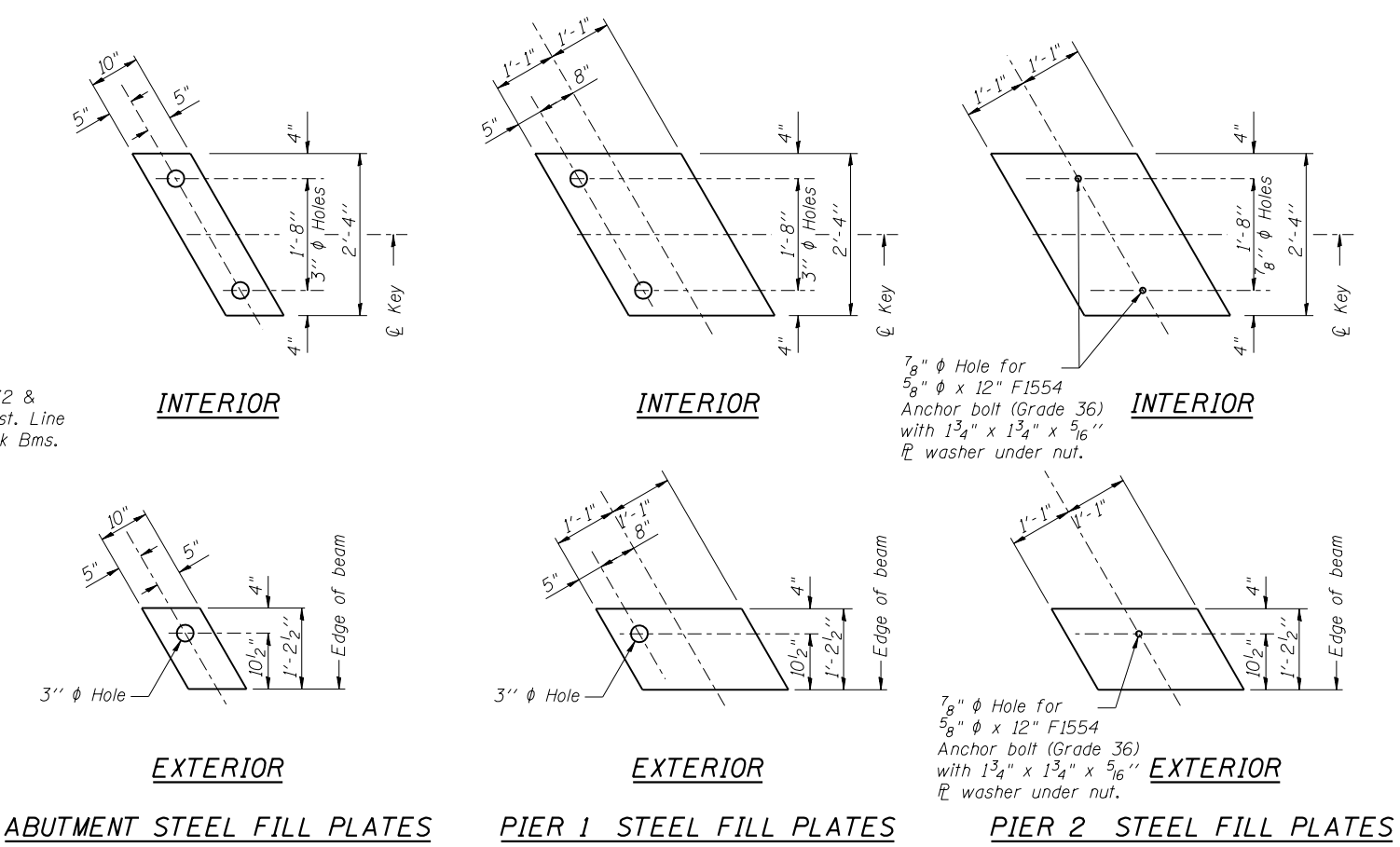
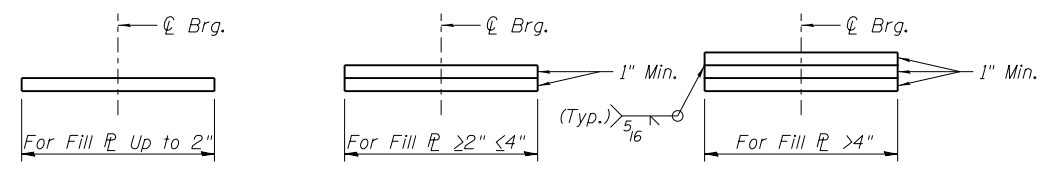


KEY PLAN



ESTIMATED FILL PLATE THICKNESS

Beam No.	1	2	3	4	5	6	7	8	9	9	10	11	12	13	14	15	16	17	18
W. Abut.	5 <sup>3</sup> / <sub>8</sub> "	5"	4 <sup>5</sup> / <sub>8</sub> "	4 <sup>1</sup> / <sub>8</sub> "	3 <sup>3</sup> / <sub>4</sub> "	3 <sup>3</sup> / <sub>8</sub> "	2 <sup>7</sup> / <sub>8</sub> "	2 <sup>1</sup> / <sub>2</sub> "	2 <sup>1</sup> / <sub>8</sub> "	1 <sup>5</sup> / <sub>8</sub> "	1 <sup>3</sup> / <sub>4</sub> "	1 <sup>7</sup> / <sub>8</sub> "	2"	2 <sup>1</sup> / <sub>8</sub> "	2 <sup>1</sup> / <sub>4</sub> "	2 <sup>3</sup> / <sub>8</sub> "	2 <sup>1</sup> / <sub>2</sub> "	2 <sup>1</sup> / <sub>2</sub> "	2 <sup>5</sup> / <sub>8</sub> "
Pier 1	3 <sup>3</sup> / <sub>4</sub> "	3 <sup>1</sup> / <sub>2</sub> "	3 <sup>1</sup> / <sub>4</sub> "	3"	2 <sup>3</sup> / <sub>4</sub> "	2 <sup>1</sup> / <sub>2</sub> "	2 <sup>1</sup> / <sub>4</sub> "	2"	1 <sup>3</sup> / <sub>4</sub> "	1 <sup>1</sup> / <sub>2</sub> "	1 <sup>5</sup> / <sub>8</sub> "	1 <sup>5</sup> / <sub>8</sub> "	1 <sup>3</sup> / <sub>4</sub> "	1 <sup>3</sup> / <sub>4</sub> "	1 <sup>7</sup> / <sub>8</sub> "	1 <sup>7</sup> / <sub>8</sub> "	2"	2"	2 <sup>1</sup> / <sub>8</sub> "
Pier 2	1 <sup>5</sup> / <sub>8</sub> "	1 <sup>5</sup> / <sub>8</sub> "	1 <sup>3</sup> / <sub>4</sub> "	1 <sup>3</sup> / <sub>4</sub> "	1 <sup>3</sup> / <sub>4</sub> "	1 <sup>7</sup> / <sub>8</sub> "	1 <sup>7</sup> / <sub>8</sub> "	1 <sup>7</sup> / <sub>8</sub> "	1 <sup>7</sup> / <sub>8</sub> "	2"	2"	2 <sup>1</sup> / <sub>8</sub> "	2 <sup>1</sup> / <sub>8</sub> "	2 <sup>1</sup> / <sub>8</sub> "	2 <sup>1</sup> / <sub>4</sub> "	2 <sup>1</sup> / <sub>4</sub> "	2 <sup>3</sup> / <sub>8</sub> "	2 <sup>3</sup> / <sub>8</sub> "	2 <sup>1</sup> / <sub>2</sub> "
E. Abut.	5 <sup>8</sup> / <sub>8</sub> "	3 <sup>4</sup> / <sub>4</sub> "	1"	1 <sup>1</sup> / <sub>4</sub> "	1 <sup>1</sup> / <sub>2</sub> "	1 <sup>3</sup> / <sub>4</sub> "	2"	2 <sup>1</sup> / <sub>4</sub> "	2 <sup>3</sup> / <sub>8</sub> "	2 <sup>5</sup> / <sub>8</sub> "	2 <sup>7</sup> / <sub>8</sub> "	3 <sup>1</sup> / <sub>8</sub> "	3 <sup>1</sup> / <sub>2</sub> "	3 <sup>3</sup> / <sub>4</sub> "	3 <sup>7</sup> / <sub>8</sub> "	4 <sup>1</sup> / <sub>8</sub> "	4 <sup>3</sup> / <sub>8</sub> "	4 <sup>1</sup> / <sub>2</sub> "	

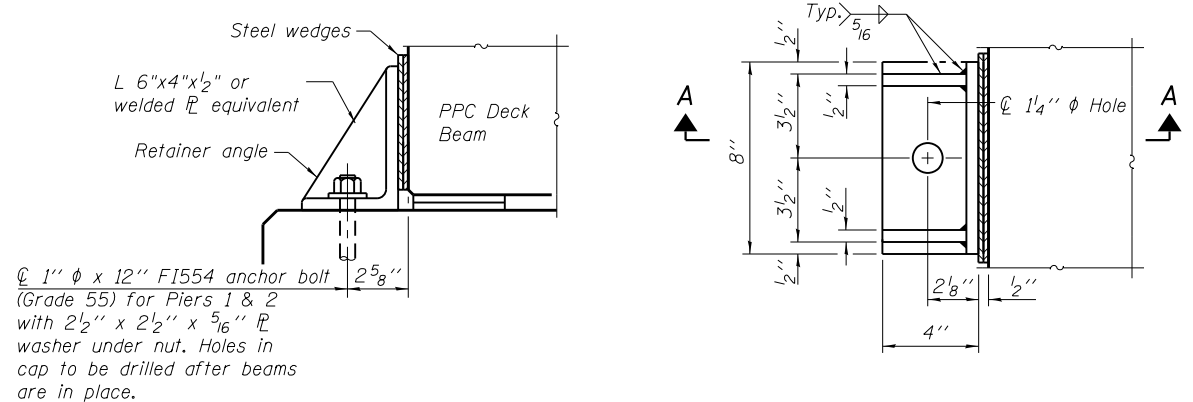


ELEVATION STEEL FILL PLATES

Notes: After the bearing seats have been repaired, the Contractor shall survey the elevation of each beam seat, then prepare a Table of Fill Plate Thicknesses that will support each beam at its required elevation. This table and supporting calculations shall be provided to the Engineer before fabrication of the fill plates.

Note: One 1/8" elastomeric leveling pad shall be supplied for each fill plate location. The exterior dimensions of the elastomeric leveling pad shall be 1/4" larger than the associated fill plate and it shall have holes that align with the fill plate.

Notes:  
Anchor bolts shall be ASTM F1554 all-thread (or an Engineer-approved alternate material) of the grade(s) and diameter(s) specified. The corresponding specified grade of AASHTO M314 anchor bolts may be used in lieu of ASTM F1554.  
Anchor bolts for side retainers may be cast in place or installed in holes drilled before or after members are in place.  
Drilled and set anchor bolts shall be installed according to Article 521.06 of the Standard Specifications.  
The structural steel plates of the Bearing Assembly shall conform to the requirements of AASHTO M 270 Grade 50.  
Two 1/8 in. adjusting shims shall be provided for each bearing in addition to all other plates or shims and placed as shown on bearing details.



SECTION A-A

PLAN

SIDE RETAINER

Notes:  
Equivalent rolled angle with stiffeners will be allowed in lieu of welded plates.  
The side retainers shall be galvanized after shop fabrication according to AASHTO M III and ASTM 385.  
Anchor bolts and plate washers shall be galvanized according to AASHTO M 232.  
After the concrete overlay is poured and cured, the steel wedges shall be removed.  
Bolt one permanent retainer angle to pier on outside face of each expansion span. One on each end of Pier 1 and two on each end of Pier 2.  
Permanent side retainers shall be provided outside the fascia beams at the expansion ends of all spans.  
Temporary side retainers shall be provided outside the fascia beams at the expansion ends of all spans at the stage construction line.  
All retainers and associated anchor bolts are included in the cost of Precast Prestressed Concrete Deck Beams of the applicable depth.  
After the Concrete Wearing Surface has been poured and cured the temporary retainer angles and anchor bolts shall be removed. Anchor bolts shall be cut off flush, ground smooth, and sealed with epoxy.  
Retainers shall be shimmed tight until the concrete wearing is poured and cured. The shims shall then be removed from the permanent retainers and the retainers left in place.

BILL OF MATERIAL

Item	Unit	Total
Anchor Bolts, 5/8"	Each	36
Furnishing and Erecting Structural Steel	Pound	20,420

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PLOT DATE = 9/3/2013	DRAWN - CM	REVISED
	CHECKED - OY	REVISED

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

SUPERSTRUCTURE DETAILS  
STRUCTURE NO. 049-0062  
SHEET NO. S10 OF S23 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
541	X-6B-R	LAKE	93	51
CONTRACT NO. 60N22				
ILLINOIS FED. AID PROJECT				