

Space to Miss Stiffener DETAIL 10 See Plate A & B Detail, Plate C & D Detail, and Table for Plate Sizes and Locations. Repair at Span 19, Beam B is similar and opposite.

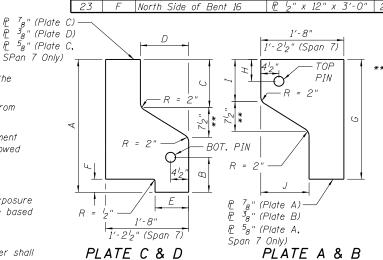
 $^{7}8$ "  $\phi$  H.S. Flat Socket Cap Screw shall be installed from Plate A side on South Girder and Plate C side on North Girder. In the locations shown, Plates A and C shall have beveled holes to match the  $^{7}_{8}$ "  $\phi$  H.S. Flat Socket Cap Screws.

Contractor to provide Flat Socket Cap Screws such that  $\frac{1}{4}$  of threads are exposed. Mar exposed threads to prevent screw from rotating out of hole.

Existing teflon bushing shall be replaced. New bushing thickness shall match existing. Bushings shall be a self lubricating filament wound epoxy matrix backed Duralon Bearing, metal backed Fiber Glide Bearing, or equivalent. No primer or grease shall be allowed on bushings. Bushings shall be suitable for dynamic loads of 20,000 psi. Teflon bushing replacement shall be included in Structural Steel Repair pay item.

Immediately before reinstalling existing link plates, apply  $^38$ " bead of Silicone Sealant to face of the web reinforcing plates approximately  $^12$ " from bushing. Place sealant around nuts after installation. Sealant shall be suitable for prolonged exterior exposure without losing flexibility or adhesion to painted steel surfaces. Proposed products shall be subject to Department's acceptance based on deocumented testing or other evidence. Silicone Sealant shall be included in Structural Steel Repair pay item.

Contractor shall temporarily support girder while performing repairs at Pin and Link joints. Dead load reactions provided for temporary shoring and cribbing. Contractor to add construction live loads. All work associated with temporarily supporting girder shall be paid for as Temporary Shoring and Cribbing. See Special Provisions.



DETAIL

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9	SPAN	BEAM	PLATE C & D DIMENSIONS						PLATE A & B DIMENSIONS				DEAD LOAD REACTIONS
L			Α	В	С	D	Ε	F	G	Н	I	J	(KIPS)
*	7	Α	2'-04"	8 <sup>3</sup> 8"	N/A	1'-0'8"	N/A	N/A	2'-014"	8 <sup>3</sup> 8"	1'-0916"	1'-08"	61
F	7	С	-	-	-	-	-	-	-	-	-	-	39
Г	17	В	2'-612"	53 <sub>8</sub> "	1'-0 <sup>5</sup> 8"	1'-0"	N/A	N/A	2'-9"	5¼"	10 34"	1'-0"	25
Г	17	С	2'-612"	53 <sub>8</sub> "	1'-0 <sup>5</sup> 8"	1'-0"	N/A	N/A	2'-9"	5½"	11"	1'-0"	22
	17	Ε	2'-612"	53 <sub>8</sub> "	1'-0 <sup>5</sup> 8"	1'-0"	N/A	N/A	2'-9"	5¼"	1034"	1'-0"	25
L	17	F	3'-0"	8½"	1'-2"	1'-0"	9"	2"	2'-82"	5¼"	1'-04"	1'-0"	34
L	19	В	2'-612"	51/8"	1'-0 <sup>5</sup> 8"	1'-012"	N/A	N/A	2'-9"	5¼"	10 34"	1'-0 <sup>3</sup> 4"	25
L	23	Α	2'-11 <sup>7</sup> 8"	84"	1'-2"	114"	9"	134"	2'-8'2"	51/8"	1'-08"	1'-04"	36
L	23	В	2'-9"	3 <sup>3</sup> 4"	1'-2"	114"	N/A	N/A	2'-9"	5¼"	1'-0"	1'-04"	32
L	23	С	2'-6 <sup>3</sup> 8"	5"	1'-058"	114"	N/A	N/A	2'-9"	5½"	11"	1'-04"	27
L	23	D	2'-63 <sub>8</sub> "	5"	1'-0 <sup>5</sup> 8"	114"	N/A	N/A	2'-9"	5½"	11"	1'-04"	27
	23	Ε	2'-9"	3 <sup>3</sup> 4"	1'-2"	1114"	N/A	N/A	2'-9"	5¼"	1'-0"	1'-04"	32
L	23	F	2'-11 <sup>7</sup> 8"	84"	1'-2"	1114"	9"	1 <sup>3</sup> 4"	2'-812"	5½"	1'-08"	1'-04"	36
V	Verify all dimensions in field prior to ordering steel.												

\* Contractor shall increase given pin bore diameters by the thickness of the new teflon bushing.

Thickness of new teflon bushing shall match existing.

\*\* Replace  $^{5}8$ " web plates at pins only. Plate dimensions provided for Span 7 Beam A repair are estimates only. Contractor shall verify dimensions prior to ordering steel.

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DESIGNED - MJK REVISED CHECKED -JAN REVISED PLOT SCALE = 2:0.0000 ':' / in. REVISED CHECKED SB

STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION** 

DETAIL

COUNTY TOTAL SHEET NO. ROCK ISLAND 47 27 STRUCTURAL STEEL REPAIR DETAILS, SHEET 3 308 (3BR)M **STRUCTURE NO. 081-9905** C-92-090-12 CONTRACT NO. 64H28 SHEET NO. 14 OF 33 SHEETS