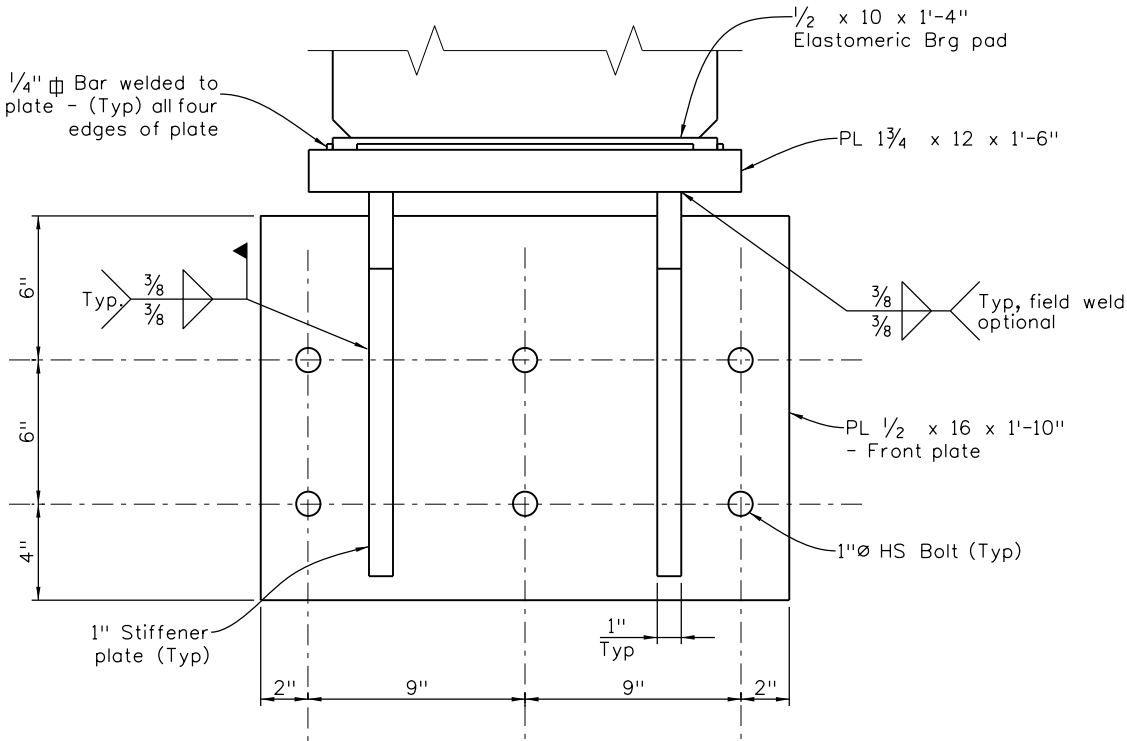
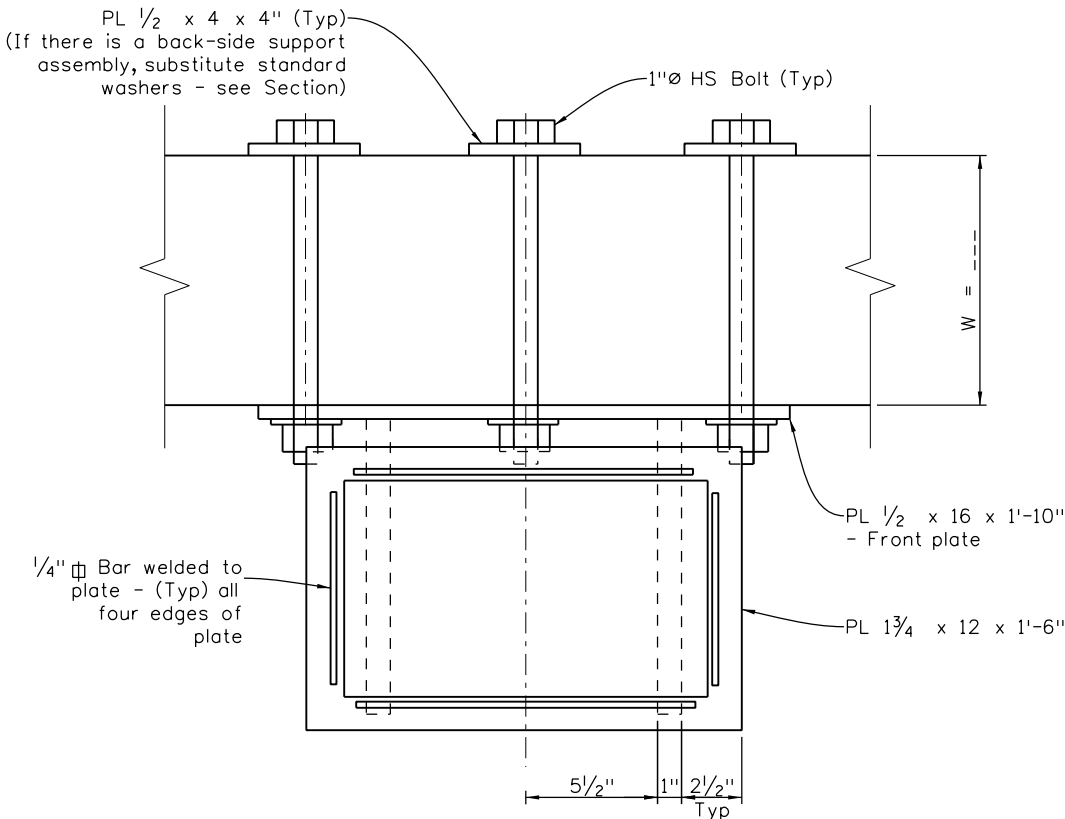
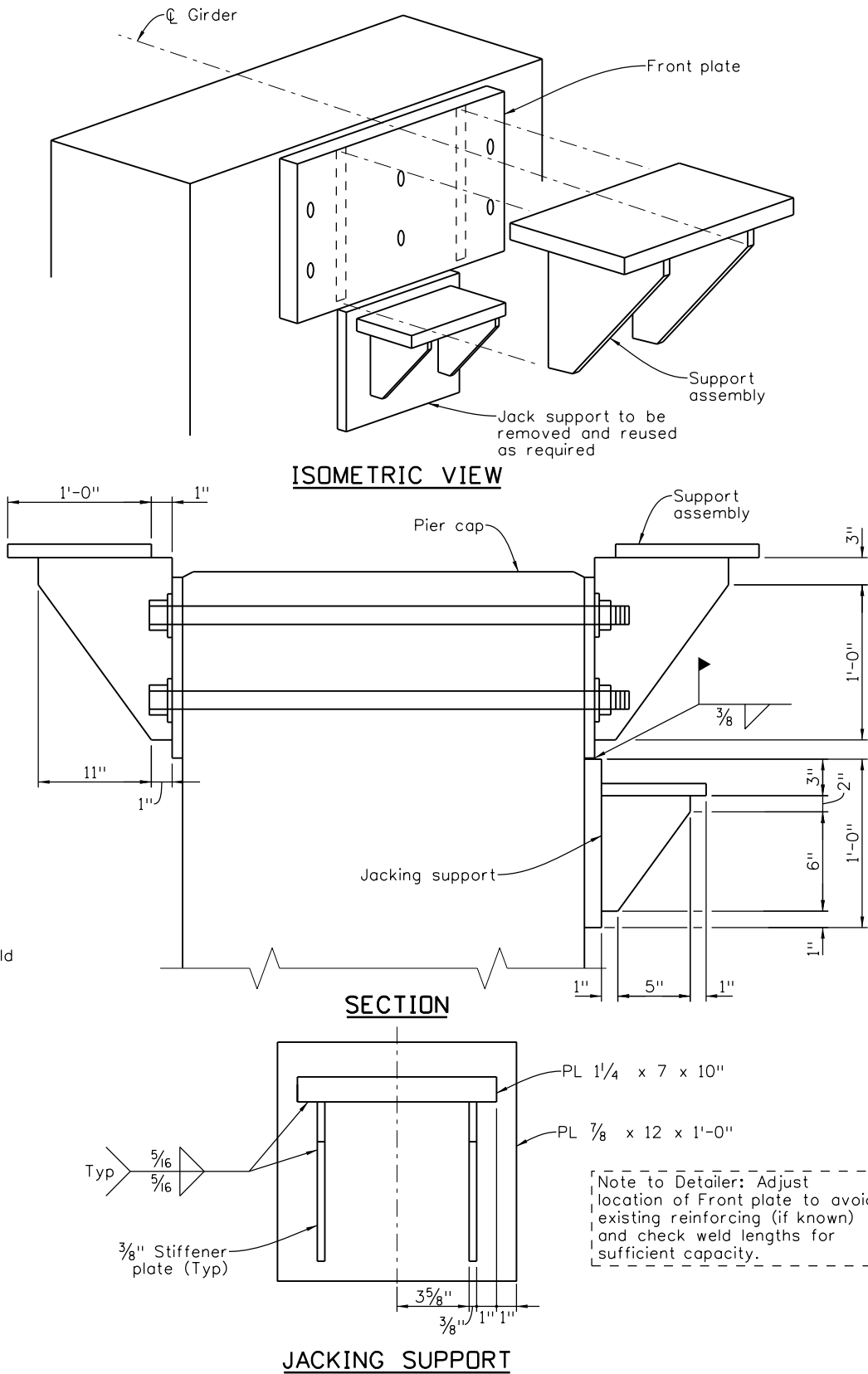


NOTES:

- 1. Design lengths below assume a CSG structure type carrying an HS 20-44 loading with an 8" deck and 4" of asphalt.
- 2. Girder working stress reactions relating to span lengths may be different for different structure types. Girder working stress reactions should be verified.
- 3. This design may be used for structures with span lengths up to 32 feet (girder working stress reaction = 82 Kip).
- 4. Where repair is required on 8oth sides of a pier cap along a single girder line, place bearing assembly on both sides as shown in the section.
- 5. All bolts shall be A449 high strength bolts.
- 6. The Contractor shall verify all dimensions prior to ordering materials.
- 7. Installation and all items shown shall be paid for under Item 512-00120 Bearing Repair Corbel.
- 8. All welding shall be performed per AWS D1.1 with low hydrogen electrodes.

SUGGESTED CONSTRUCTION PROCEDURE

- 1. Remove loose concrete and clean reinforcing steel.
- 2. Bolt the form in place and restore the pier cap to its original section using an approved grout (Duracal, etc.).
- 3. Allow curing time as recommended by the Manufacturer before removing the form.
- 4. Locate and mark centerline of the girder on the pier cap.
- 5. Mark location of bolt holes on the pier cap, see elevation view and section.
- 6. Drill holes in the pier cap and place bolts.
- 7. Cut holes in plywood form to match bolt holes in the pier cap.
- 8. Using the form for a pattern, cut the bolt holes in the front plate.
- 9. Attach plates and tighten bolts (100 Lb-Ft torque).
- 10. Raise the support assembly until the elastomeric pad is compressed 1/16" (200 psi x pad area = Jacking Force).
- 11. Field weld the support assembly to the front plate.
- 12. Paint all steel as directed by the Engineer.



Revision Dates				
3/99	11/99	4/02	9/02	3/07
				10/13
				3/23
				9/24

INITIALS	DESIGN	DATE	DETAIL	DATE	QUANTITY	DATE
By						
Checked By						

All seals for this set of drawings are applied to the cover page(s)

Print Date: \$DATE\$
File Name: Sheet_B-509-2C.dgn
Horiz. Scale: None Vert. Scale: As Noted
Unit Information Unit Leader Initials

Sheet Revisions		
Date:	Comments	Init.

Colorado Department of Transportation



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Staff Bridge Branch

Initials

As Constructed		BEARING REPAIR DETAILS, 83 KIP			Project No./Code	
No Revisions:					Project Number	
Revised:	Designer: XXXXXXXX		Structure Numbers	X-XX-XX		Code
	Detailer: XXXXXXXX			X-XX-XX		
Void:		Sheet Subset: BRIDGE		Subset Sheets: BXX of XXX		Sheet Number