

NOTES:

- Design lengths mentioned below assume a CSG structure type carrying an HS 20-44 loading with an 8" deck and 4" of asphalt.
- Girder working stress reactions relating to span lengths may be different for different structure types. Girder working stress reactions should be verified.
- All bolts shall be A449 high strength steel.
- Grout bolts into holes with a non-shrink epoxy grout.
- The Contractor shall verify all dimensions prior to ordering materials.
- Installation and all items shown shall be paid for under Item 512-00120 Bearing Repair Corbel.
- All welding shall be performed per AWS D1.1 with low hydrogen electrodes.

SUGGESTED CONSTRUCTION PROCEDURE

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

NOTE TO DESIGNER/DETAILER:

Where one size or dimension is shown, it is good for all designs up to 95 feet.

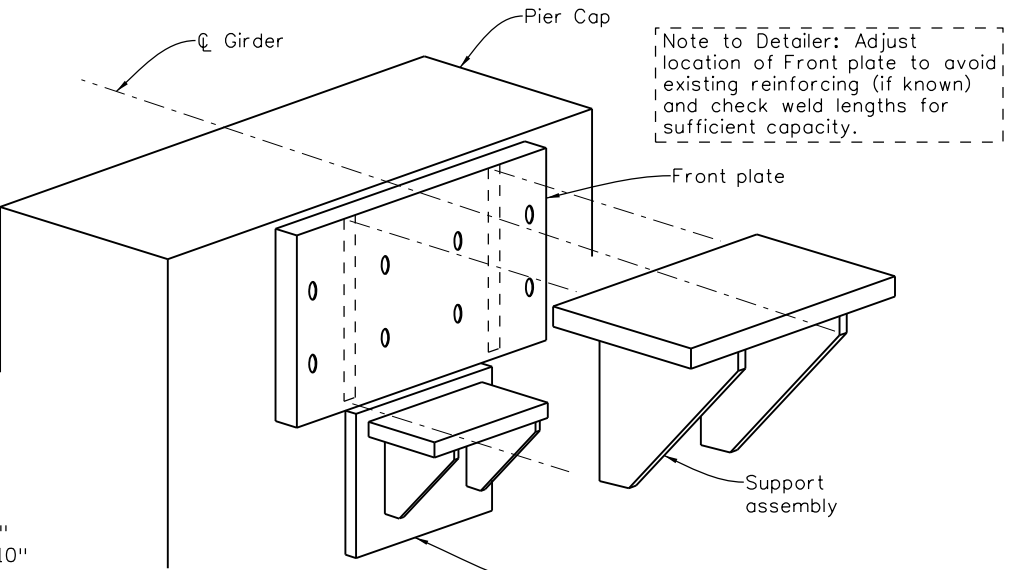
Where three sizes or dimensions are shown -

No asterisk, For structures with span lengths up to 50 feet (girder working stress reaction = 107 Kip).

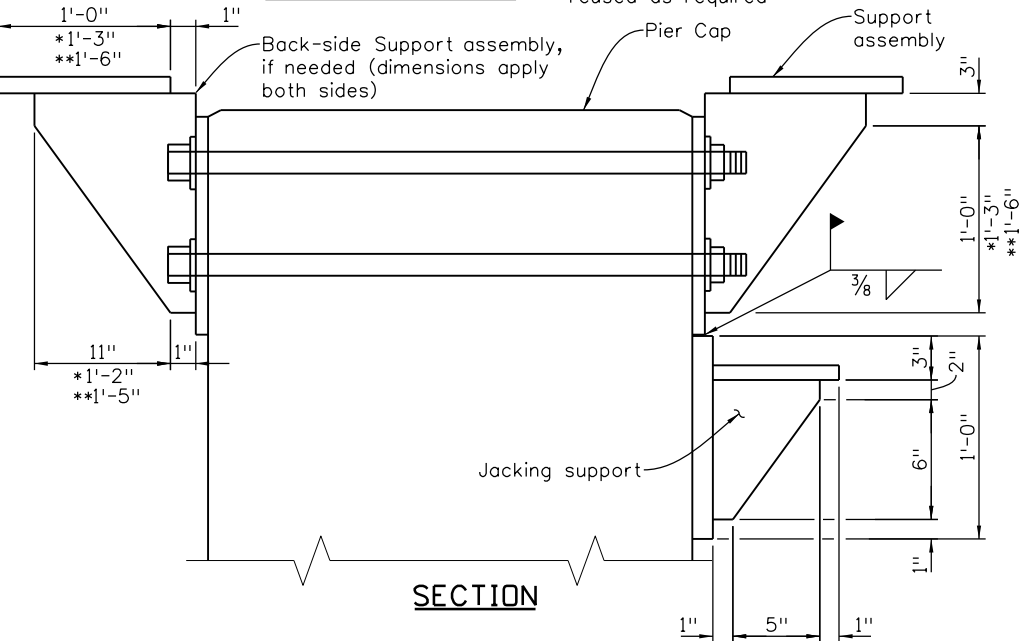
* For structures with span lengths up to 80 feet (girder working stress reaction = 154 Kip).

** For structures with span lengths up to 95 feet (girder working stress reaction = 175 Kip).

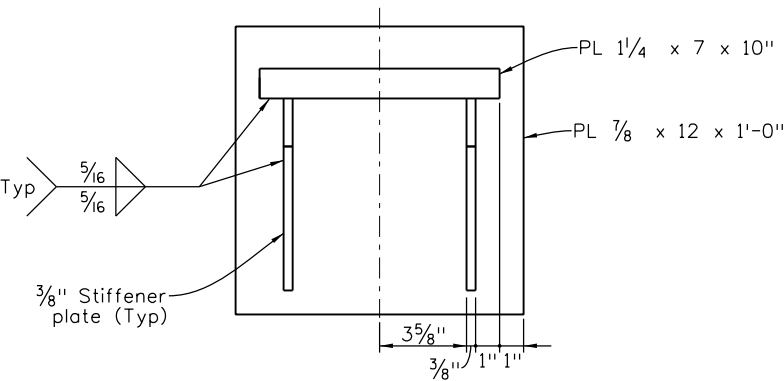
Delete as needed for your design.



ISOMETRIC VIEW



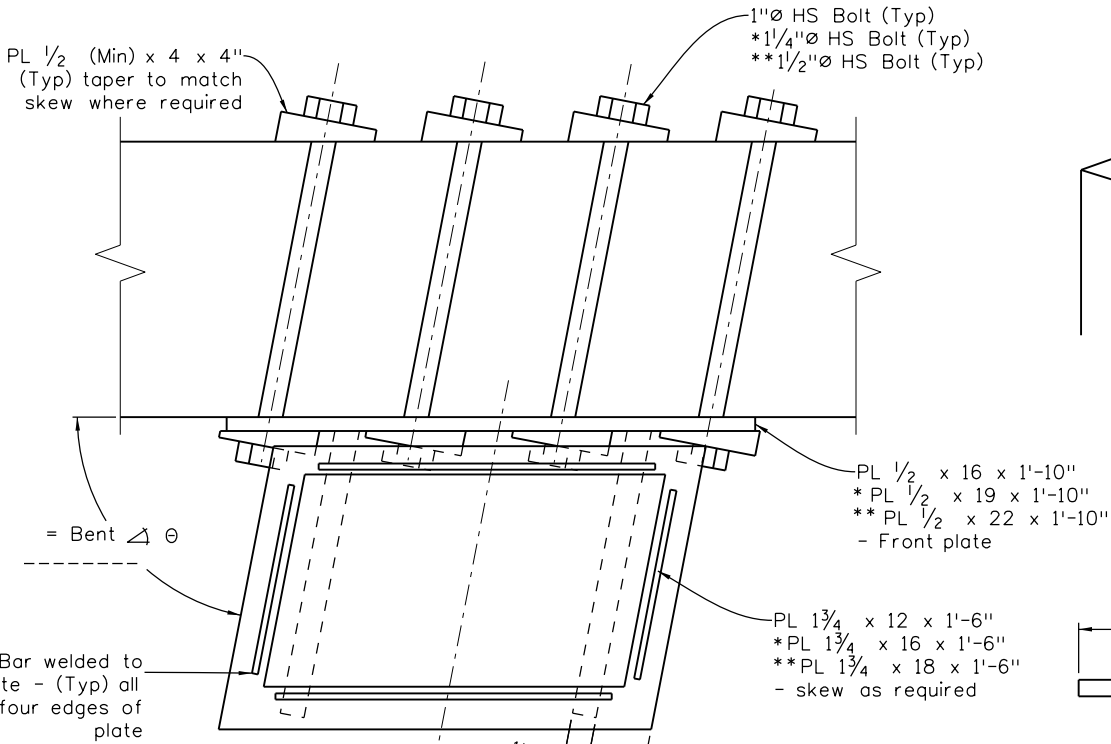
SECTION



JACKING SUPPORT

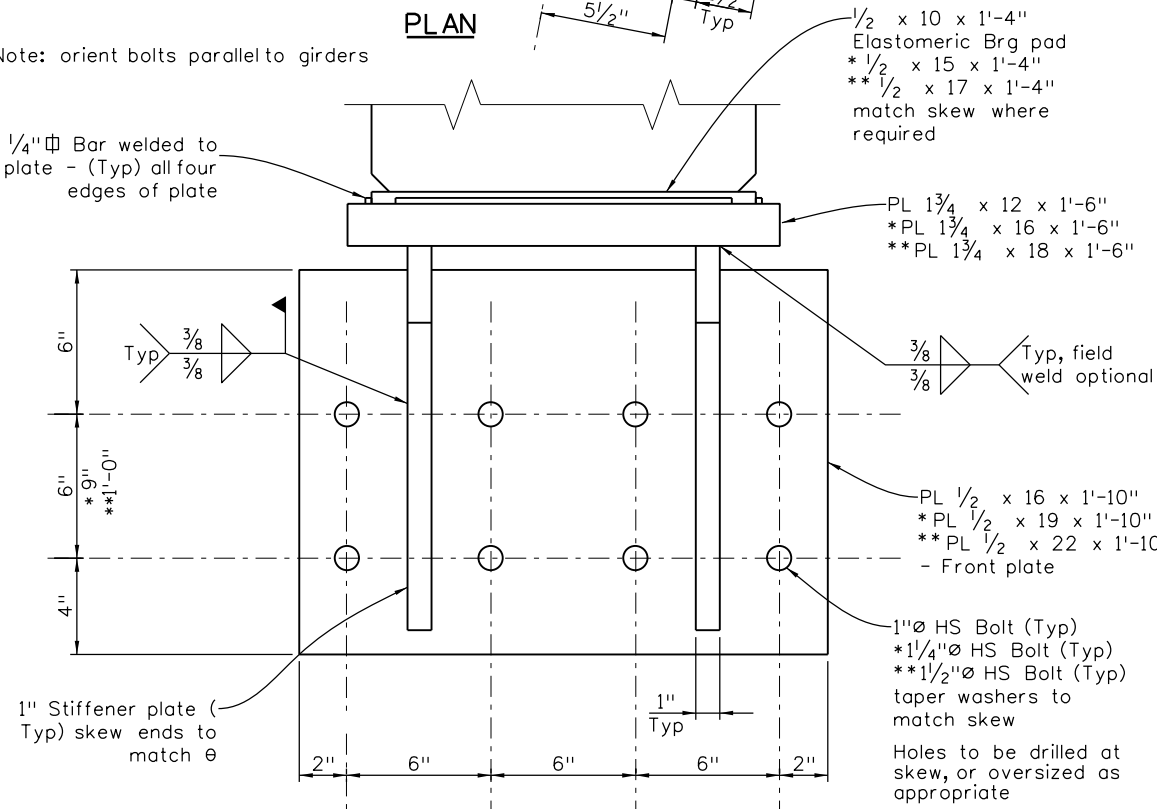
Revision Dates	3/99	11/99	4/02	9/02	3/07	10/13	3/23	9/24

INITIALS	DESIGN	DATE	DETAIL	DATE	QUANTITY	DATE
By						
Checked By						



PLAN

Note: orient bolts parallel to girders



ELEVATION VIEW

(Front view Support Assembly)

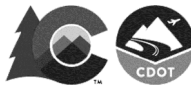
All seals for this set of drawings are applied to the cover page(s)

Print Date: \$DATE\$
File Name: Sheet_B-509-2D.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

No Revisions:

Revised:

Void:

BEARING REPAIR DETAILS
107-175 KIP SKEWED

Designer: XXXXXXXX	Structure Numbers	X-XX-XX
Detailer: XXXXXXXX		X-XX-XX
Sheet Subset: BRIDGE	Subset Sheets: BXX of XXX	

Project No./Code

Project Number

Code

Sheet Number