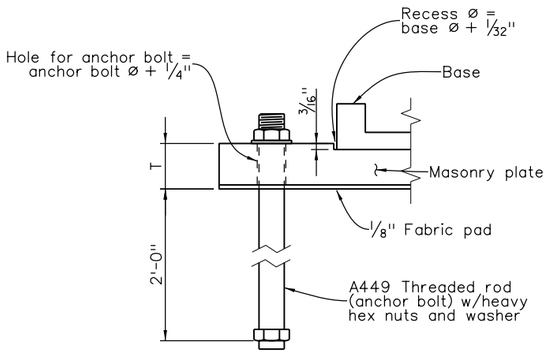
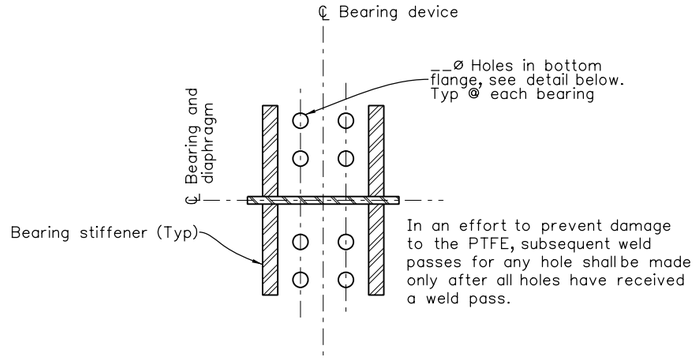
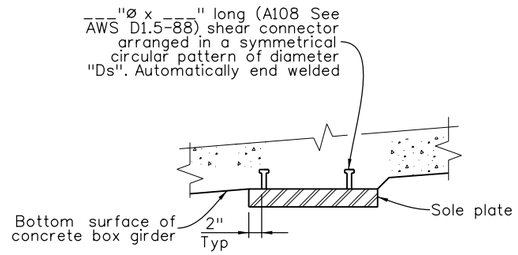


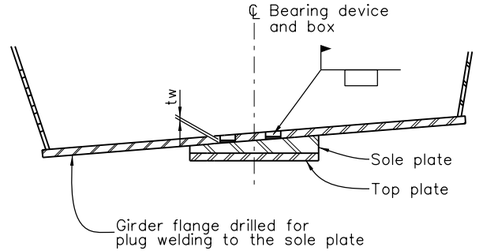
ANCHOR BOLT DETAIL



PLAN



SOLE PLATE TO GIRDER CONNECTION
(CONCRETE GIRDER)



SECTION
Bearing stiffener and diaphragm not shown

TOP PLATE OF GIRDER CONNECTION
(STEEL GIRDER)

NOTES:

1. All structural steel for the bearing devices, including sole plates, top plates, and masonry plates, shall be AASHTO M270 (ASTM A709) Grade ____ unless otherwise shown. A588 or A572 may be substituted for Grade 36 at no additional cost to the project.
2. Bearing seat elevations at abutments and piers shall be checked and adjusted according to the final dimensions of bearing assemblies adopted.
3. Longitudinal structure movement due to temperature and shrinkage is based on a mid-range temperature of 40°F. If site temperature is not 40°, a longitudinal offset of top elements of the bearing (above sliding surface) shall be made in the field based on the 10° temperature increment in the table. In addition, longitudinal one way structure movement due to prestress shortening and creep shall be accommodated for all temperature ranges with the initial offset in the table away from the fixed bearing.
4. Anchor bolts may be set in wet concrete of bearing seat, or placed within a formed cylindrical void 4" in diameter and then grouted with high strength epoxy grout.
5. The internal surfaces of the pot cavity and the bottom surface of the piston shall be polished after zinc metalizing.

Gd = Guided expansion bearing
Exp = Non-guided (free floating) expansion bearing

Designer/Detailer:
Add 2" to the Theoretical value for dimension B in guided and non-guided bearings and add 2" to the theoretical value for dimension A in non-guided bearings to provide a design and construction tolerance.

Designer shall specify grade of steel required

ACCEPTABLE ALTERNATES

D. S. Brown Company
North Baltimore, Ohio

Cosmec, Inc.
Walpole, MA

Con-Serv, Inc.
Georgetown, SC

R. J. Watson, Inc.
Amherst, NY
(Disk Bearing Alternate)

Mageba
New York, NY

Location	Quant	Fixed Girder Exp	Vertical Load Per Brg (Kip)		Horiz Load Per Brg (Kip)				Longit Range of Structure Movement	Rotation (Radians)	Top Plate (Sole Plate similar)		Bearing	Masonry Plate (In)			Top Connections						A449 Zinc Plated Anchor Bolts		Total Height	X-Slope % +/- Looking Ah Sta	Grade % +/- Ah Sta	Guide Angle Θ	10° Temp Incr	Initial Offset
					Service		Strength										Field Plug Welds (Steel Str)			Concrete Anchor Studs									
			Service	Strength	Trans	Long	Trans	Long	(In)		A	B	ID	C	D	T	No	ø(In)	tw	No	Ds	ø(In)	No	Size	H					(In)
Abut 1																														

INITIALS	DESIGN	DATE	DETAIL	DATE	QUANTITY	DATE
By						
Checked By						

Revision Dates						
(Preliminary Stage Only)						
3/99	11/99	4/02	9/02	6/04	3/07	10/13	3/23

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

Print Date: $DATE$
File Name: Sheet_B-512-3B.dgn
Horiz. Scale: Not to Scale Vert. Scale: As Noted
Unit Information Unit Leader Initials

Sheet Revisions

Date:	Comments	Init.

Colorado Department of Transportation
2829 West Howard Place, 3rd Floor
Denver, CO 80204
Phone: 303-512-4079
FAX: 303-757-9197
Staff Bridge Branch Initials

As Constructed
No Revisions:
Revised:
Void:

BEARING DEVICE
(TYPE III)

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

$PLOT_INFO$