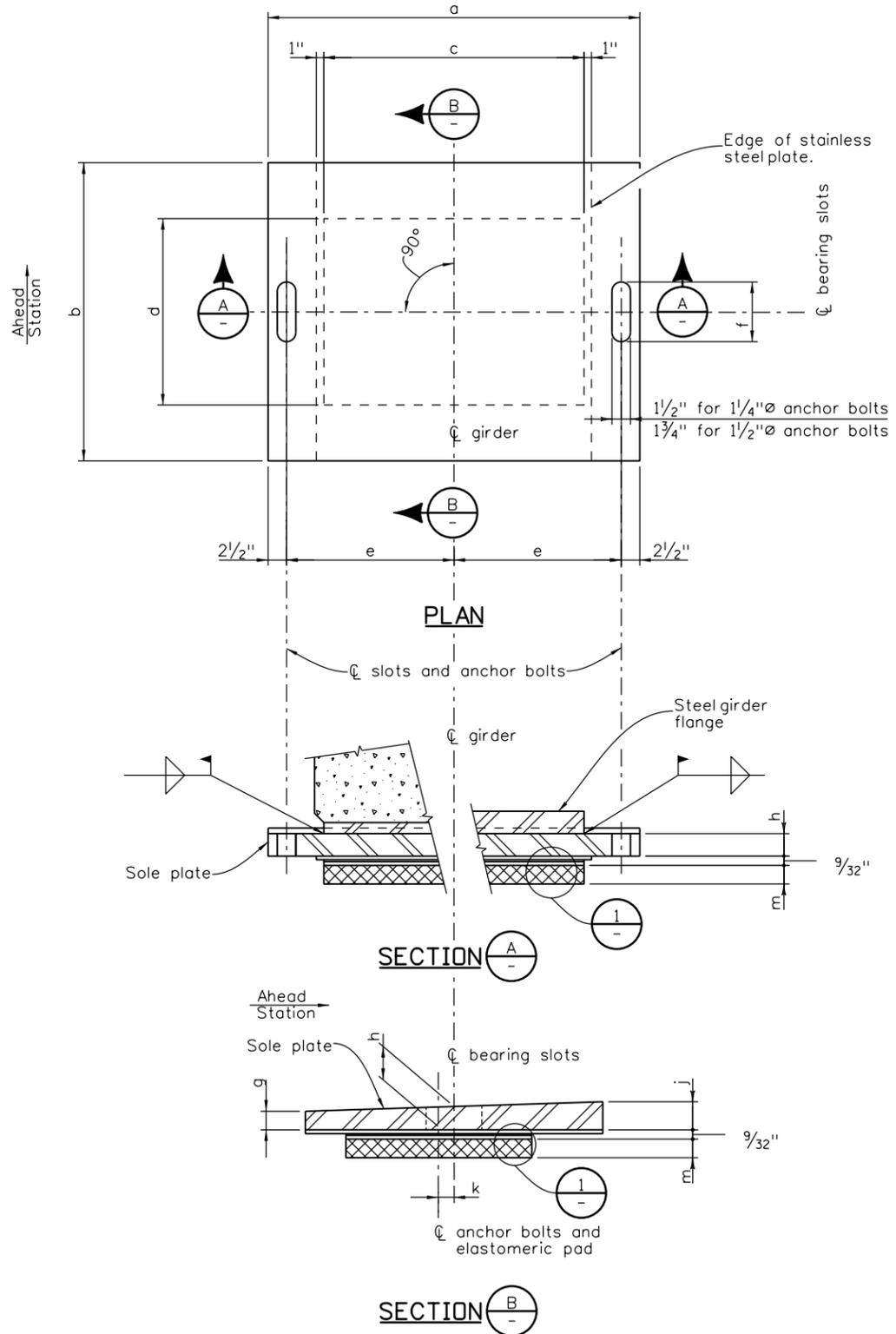


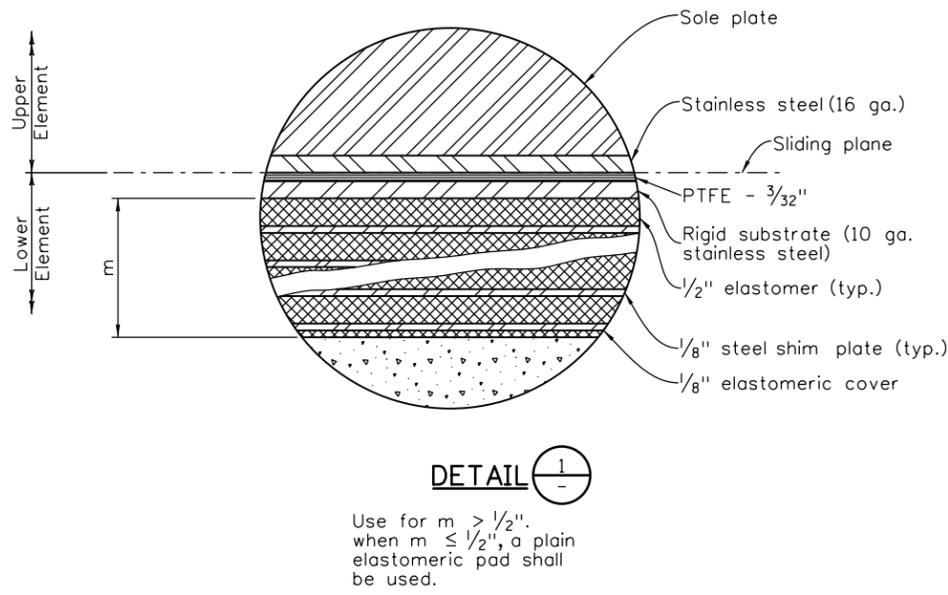
Revision Dates (Preliminary Stage Only)			
4/93	1/97	3/99	11/99
6/04	4/02	3/07	10/13

Design		Detail		Quantities	
DATE	INITIAL	DATE	INITIAL	DATE	INITIAL
MM/YY	XXX	MM/YY	XXX	MM/YY	XXX
Checked By					



Designer:
 As shown in Detail "1", the thickness of the elastomeric cover may be as small as 1/8" (default thickness) or as large as 3/8". The maximum Shore A hardness allowed in a laminated bearing is 50 Durometer for Method A, and 60 Durometer for Method B.
 Add 2" to the theoretical value for dimension b to provide a design and construction tolerance.

NOTES:
 The centerlines of the upper and lower elements of the expansion bearings shall be aligned as shown in Section B at a mid-point temperature of 40°. The upper element only, shall be adjusted, in relation to the fixed bearing, for each 10° temperature change. Adjust away from the fixed bearing one 10° temperature increment for each 10° change above 40° and toward the fixed bearing for each 10° change below 40°.
 Provide 1/4" clearance between jam nut and sole plate under all temperature conditions prior to jamming.
 Sole plates, stainless steel plates, anchor bolts, PTFE, and elastomeric pads shall be included in the bid price for Item No. 512, Bearing Device (Type II).
 Stainless steel in contact with PTFE shall be polished to a brightness finish of less than 10 micro-inches root mean square.
 Seal weld stainless steel to the sole plate.
 PTFE and substrate to be vulcanized to the elastomeric pad.
 Grade 3 elastomer shall be used.
 Higher grade elastomer may be substituted for grade 3.
 Design shear modulus G = _____ psi. at 73°F.
 Hardness = _____ Duro (Shore A).
 AASHTO design method _____ has been used.
 PTFE = Polytetrafluoroethylene



Location	No. Req'd	Vertical Load Per Brg. (kips)	Dimensions (Inches)													
			a	b	c	d	e	f	g	h	j	☆ k	m	10° Temp Increment		

☆ Note: Dimension k compensates for creep and shrinkage in concrete bridges. Negative values indicate that the bearing slots shall be set backstation from the anchor bolts and elastomeric pad.

Print Date: \$DATE\$	Sheet Revisions			Colorado Department of Transportation 4201 East Arkansas Avenue Room 107 Denver, CO 80222 Phone: 303-757-9309 FAX: 303-757-9197 Staff Bridge Branch	As Constructed No Revisions: Revised: Void:	BEARING DEVICE (TYPE II) Designer: XXXXXXXX Structure: X-XX-XX Detailer: XXXXXXXX Numbers: X-XX-XX Sheet Subset: BRIDGE Subset Sheets: BXX of XXX				Project No./Code	
File Name: Sheet_B-512-2.dgn	Date:	Comments:	Init.							Project Number	
Horiz. Scale: NTS Vert. Scale: As Noted	0000			Initials	Code	Code					
Staff Bridge Branch - Unit 022X Unit Leader Initials						Sheet Number					