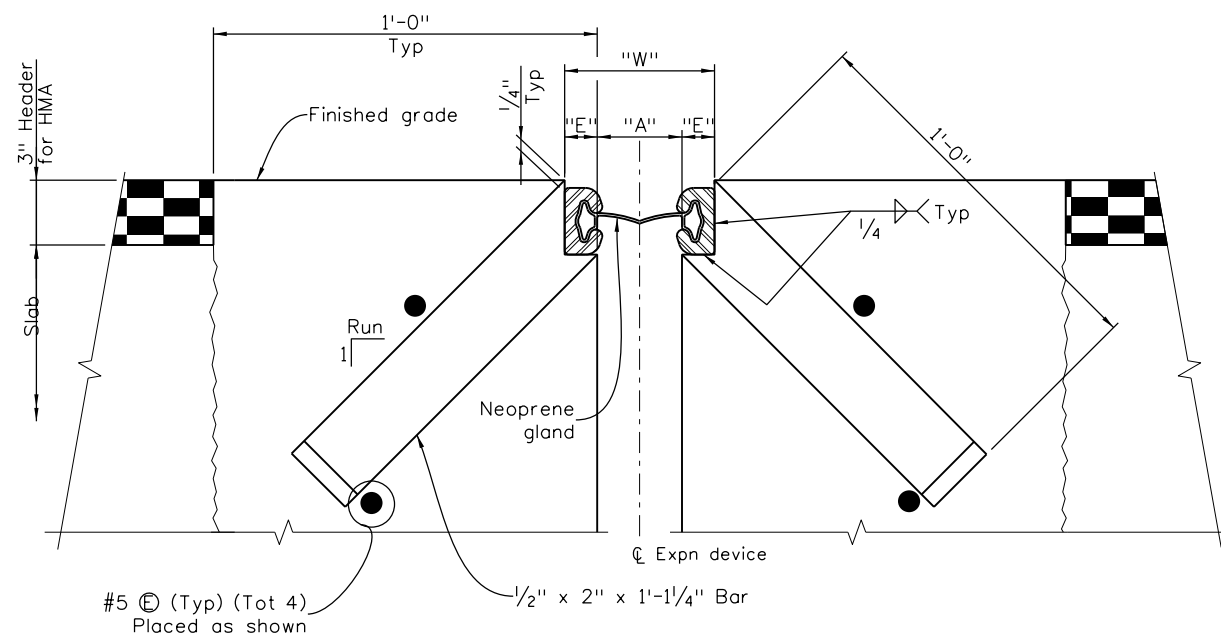
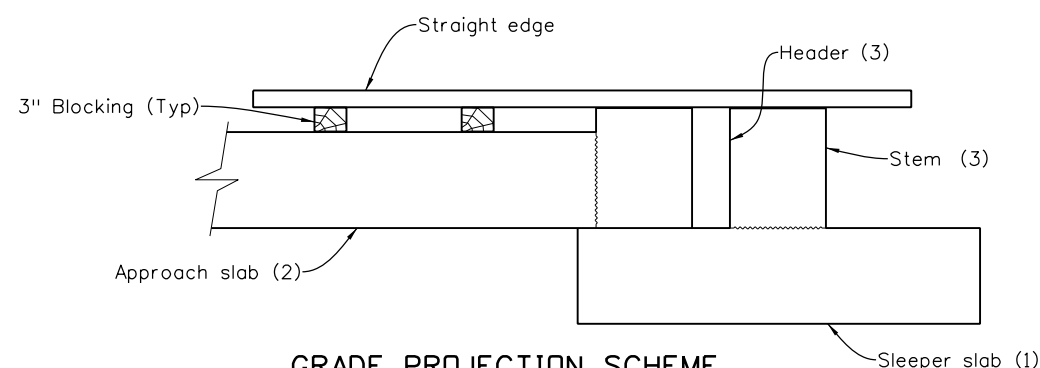


INITIALS	DESIGN	DATE	DETAIL	DATE	QUANTITY	DATE
By						
Checked By						



SECTION THRU STRIP SEAL BRIDGE EXPANSION DEVICE

Section taken perpendicular to \odot Expn device

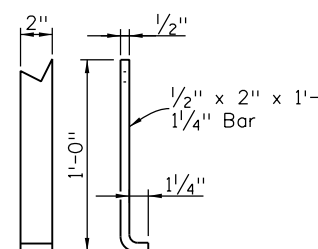


GRADE PROJECTION SCHEME

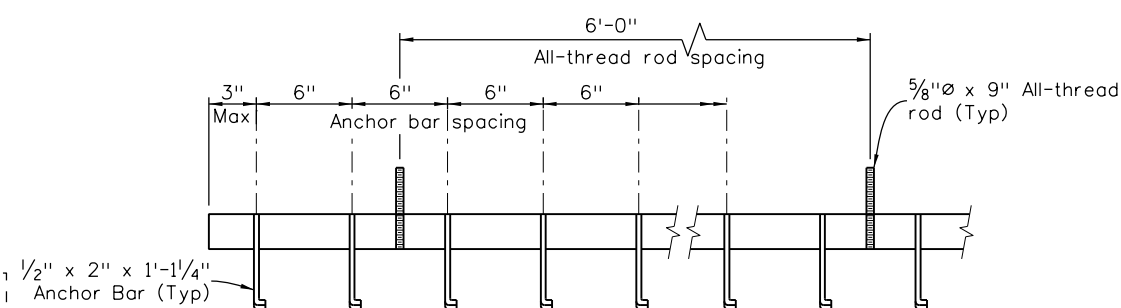
Numbers in parenthesis refer to first, second and third concrete pours

AIR TEMP	"A"	"W"*
-30° F		
0° F		
30° F		
60° F		
90° F		
120° F		

* For $E = 1\frac{1}{4}''$ (Min)

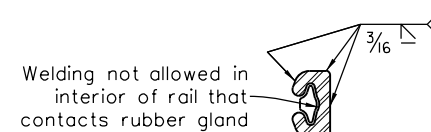


TYPICAL ANCHOR BAR DETAIL

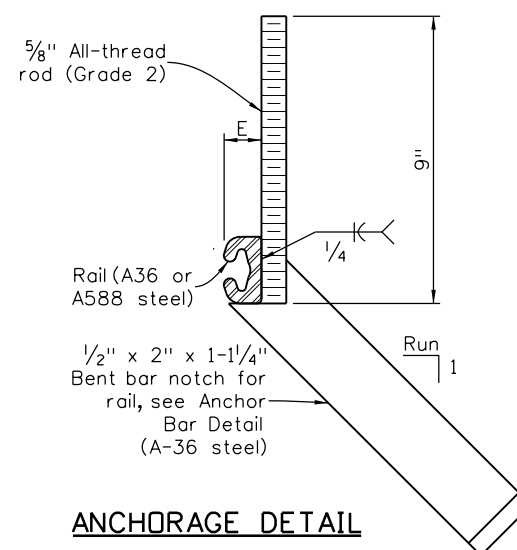


ANCHOR BAR SPACING

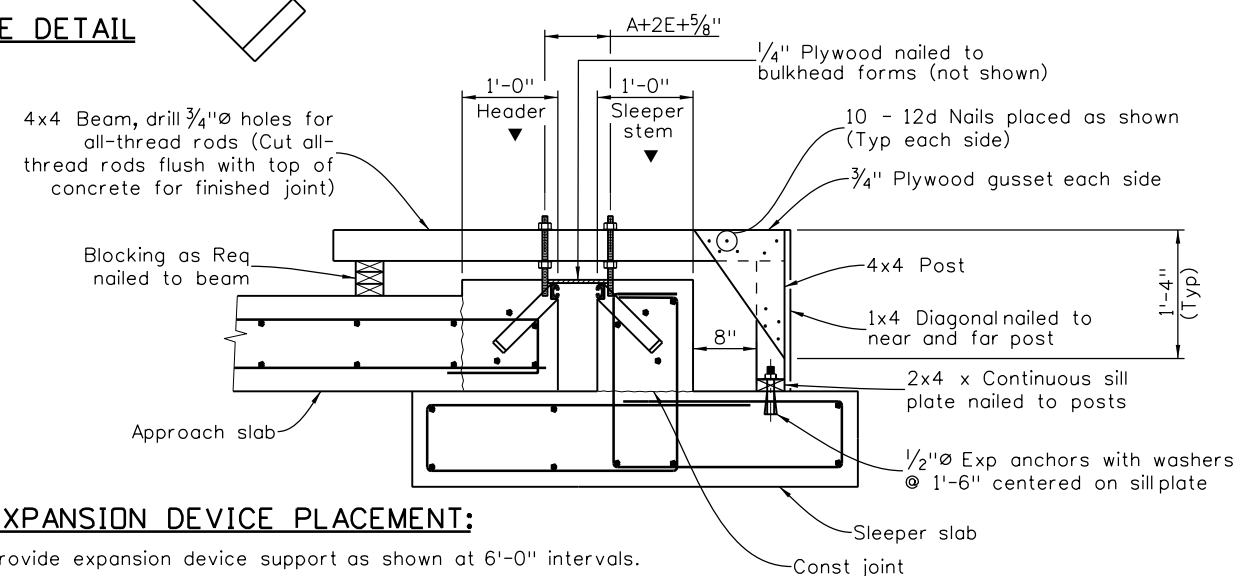
First anchor bar to be within 1" of flowline unless otherwise approved



RAIL FIELD SPLICE DETAIL



ANCHORAGE DETAIL



EXPANSION DEVICE PLACEMENT:

1. Provide expansion device support as shown at 6'-0" intervals.
2. For reinforcing not shown, see Approach Slab Details.

Alternate support bracket connections may be submitted for approval.

▼ Concrete shall be placed after expansion device has been adjusted to proper grade and approved by the Engineer using the Grade Projection Scheme.

MINIMUM SUPPORT BRACKET REQUIREMENTS

All seals for this set of drawings are applied to the cover page(s)	Print Date: \$DATES\$	<div><div></div><div></div><div></div><div></div><div></div></div>	Sheet Revisions			<div><div><div></div></div><div><div></div></div></div> <div>Colorado Department of Transportation</div> <div><div><div><div></div></div><div><div></div></div></div><div><div>2829 West Howard Place, 3rd Floor</div><div>Denver, CO 80204</div><div>Phone: 303-512-4079</div><div>FAX: 303-757-9197</div></div><div>Staff Bridge Branch</div><div>Initials</div></div>	As Constructed		BRIDGE EXPANSION DEVICE (0-4 INCHES)			Project No./Code	
	File Name: Sheet_B-518-1.dgn		Date:	Comments	Init.		No Revisions:					Project Number	
	Horiz. Scale: None Vert. Scale: As Noted						Revised:		Designer: XXXXXXXX	Structure X-XX-XX	Code		
	Unit Information Unit Leader Initials						Void:		Detailer: XXXXXXXX	Numbers X-XX-XX			
									Sheet Subset: BRIDGE	Subset Sheets: BXX of XXX	Sheet Number		

B-518-1
(Use with B-518-1A
or B-518-1B)

NOTES:

1. The expansion device shall be installed on grade, parallel to the slope and grade of the deck.
2. The expansion device shall not be set before the deck elevations have been approved by the Engineer. The Contractor shall take shots of the expansion device to achieve the required elevations for smoother rideability on bridge approaches.
3. After the concrete has attained initial set, the attachments used to hold the expansion device assembly in its proper position shall be removed.
4. "W" and "E" dimensions are dependent upon the particular expansion device supplied, and shall be shown on the working drawings.
5. See table for dimensions "A" and "W"; interpolate as needed. Do not install the gland until dimension "A" has opened up to at least $1\frac{1}{2}$ ".
6. The neoprene gland shall be installed in one piece in accordance with Section 518 of the Standard Specifications.
7. See Section 518.09 in the Standard Specifications for water tight integrity testing requirements.
8. Set elevations at top of header and sleeper stem with the grade projection scheme.
9. All steel elements (whether grade A36 or A588) of the bridge expansion device, including cover plates, shall be hot dip galvanized after fabrication as per Section 509.11 of the Standard Specifications.
10. Use a run of 1 or more to accommodate existing conditions and a run of 1 for new construction.

ACCEPTABLE EXPANSION DEVICE ALTERNATES

D.S. Brown A2R400-SSA2
WABO SE400 Type A
E-poxy Engineered Materials S400-A Strip Seal