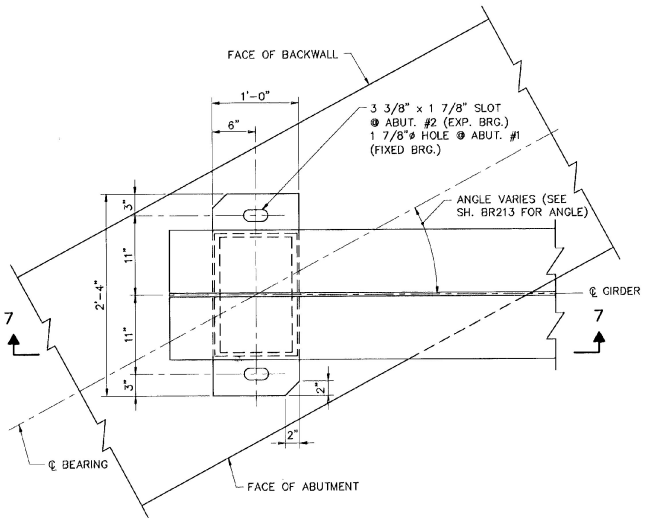
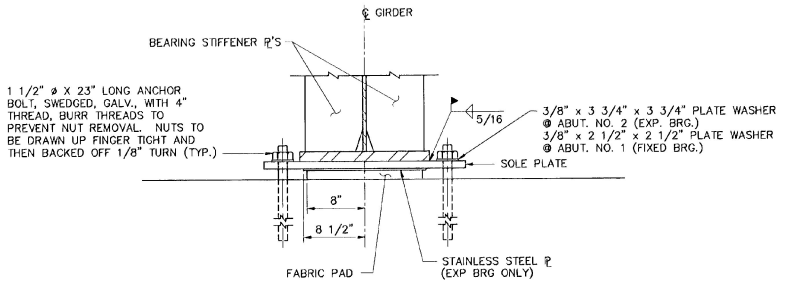


PLAN FABRIC PAD EXPANSION BRG. (SHOWN)
FIXED BRG. (SIMILAR)

SCALE IN FEET

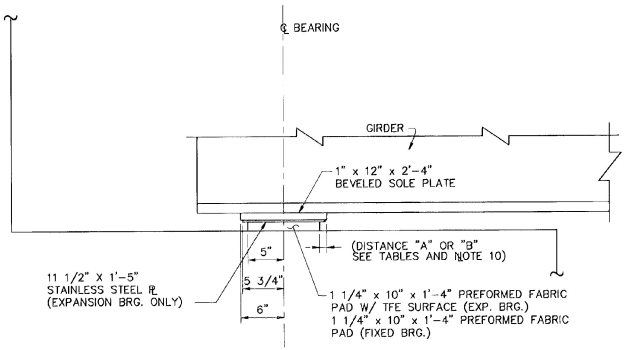


ELEVATION – FABRIC PAD BEARING

SCALE IN FEET

NOTES:

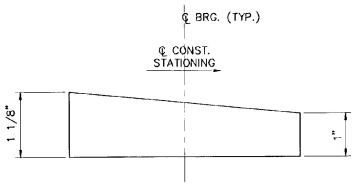
1. BEARINGS SHALL CONFORM TO APPLICABLE SUBSECTIONS OF SECTION 531 & 731.
2. BEARINGS SHALL BE PAID FOR UNDER THE ITEM 531.10 "BEARING DEVICE ASSEMBLY".
3. SHOP DRAWINGS CONFORMING TO SUBSECTION 531.03 SHALL BE SUBMITTED TO INCLUDE WELDING AND BONDING PROCEDURES.
4. FABRICATION DRAWINGS SHALL IDENTIFY THE NUMBER OF LAYERS OF VULCANIZED SHEETS AND CORRESPONDING SHEET THICKNESSES TO BE USED FOR FABRICATING THE BEARING PAD AND SHALL INCLUDE DETAILED PROCEDURES FOR BONDING THESE SHEETS TOGETHER.
5. THE CONCRETE SURFACE UNDER THE BEARING DEVICE SHALL BE LEVEL.
6. DISTANCE "A" IS THE FINAL SETTING FOR THE BEARING PAD AFTER THE CONCRETE SLAB, CURB, PAVEMENT AND BRIDGE RAIL ARE PLACED. DISTANCE "B" IS LISTED FOR SETTING THE BEARING AFTER THE STRUCTURAL STEEL IS ERECTED AND BEFORE THE CONCRETE DECK IS POURED. THE DIFFERENCE IS THE THEORETICAL ELONGATION OF THE BOTTOM FLANGE DUE TO DEAD LOAD DEFLECTION. THE FINAL DISTANCE "A", AS SHOWN IN THE TABLE, MUST BE ATTAINED WITHIN 1/8 INCH.
7. DESIGN CRITERIA:
   A. BASE PLATE TO CONCRETE DESIGN PRESSURE = 1000 P.S.I. MAXIMUM
   B. MINIMUM ALLOWABLE DESIGN ROTATION = 0.015 RADIANS
   C. DESIGN LOAD PER BEARING = 86 KIPS.
8. ALL STEEL IN BEARING DEVICES (EXCEPT STAINLESS) SHALL BE AASHTO M-270, GRADE 36.
9. ANCHOR BOLTS SHALL HAVE A MINIMUM OF 15" EMBEDMENT INTO THE CONCRETE AND SHALL CONFORM TO SUBSECTION 714.08 IN THE "VERMONT SPECIFICATIONS".
10. ALL BEARING DEVICES SHALL BE GALVANIZED OR METALIZED AS PER SUBSECTION 531.04(b) & (C). IF THE BEARINGS ARE METALIZED THEY SHALL BE SEALED WITH AN APPROVED PRIMER AS SPECIFIED IN SUBSECTION 506.15(c). AREAS OF GALVANIZING OR METALIZING DAMAGED BY FIELD WELDING OR HANDLING SHALL BE PAINTED WITH AN APPROVED SEALER IN ACCORDANCE WITH SUBSECTION 708.02(d).
11. ALL THE ANCHOR BOLTS, NUTS AND WASHERS SHALL BE GALVANIZED. ALL WASHERS SHALL BE 3/8" PLATE (MINIMUM). PAYMENT FOR ANCHOR BOLTS, NUTS AND WASHERS SHALL BE INCLUDED IN THE UNIT BID PRICE FOR "BEARING DEVICE ASSEMBLY".



SECTION 7-7 FABRIC PAD BEARING
EXPANSION BRG. (SHOWN)
NOTE: BOLTS & BRG. ℙ NOT SHOWN

SCALE IN FEET

ABUTMENT NO. 2		
TEMP.	DIST. "A"	DIST. "B"
0° F	1 3/8"	1 7/8"
15° F	1 1/4"	1 3/4"
30° F	1 1/8"	1 5/8"
45° F	1"	1 1/2"
60° F	7/8"	1 3/8"
75° F	3/4"	1 1/4"
90° F	5/8"	1 1/8"
105° F	1/2"	1"



SOLE PLATE DETAIL
N. T. S.

STATE OF VERMONT
AGENCY OF TRANSPORTATION

Town Of WALLINGFORD	Bridge No. 80
Highway No. U.S. ROUTE 7	Log Sta. / Surv. Sta.
U.S. ROUTE 7 OVER RAILROAD	
BEARING DETAILS	
Designed By GRI	Drawn By KGG
Checked By EMM Date 4/95	Bridge Design Supervisor EMM Date 4/95
PROJECT WALLINGFORD	PROJECT NO. BRS 0137 (13)
I.G.C. Info.	
Bridge Sheet No. BR216	Sheet 76 of 113

BARNES AND JARNIS, INC.
CONSULTING ENGINEERS
25 STUART STREET, 6TH FL.
BOSTON, MASSACHUSETTS