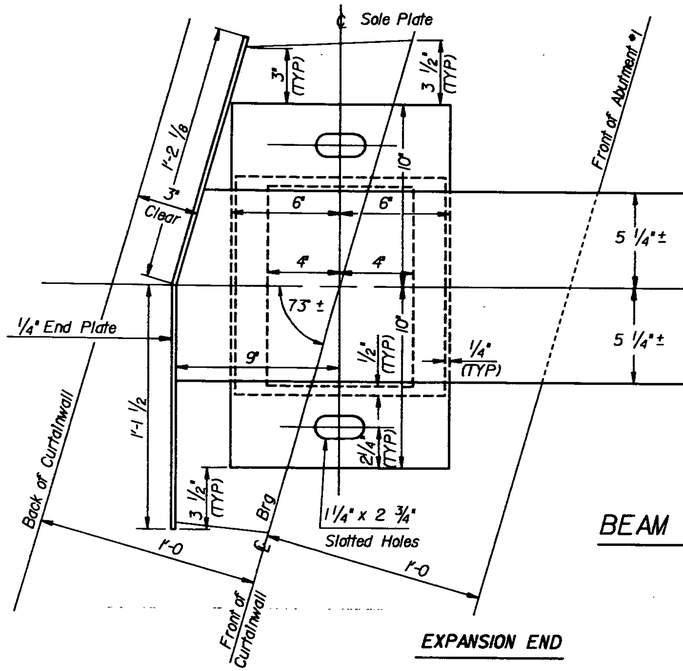
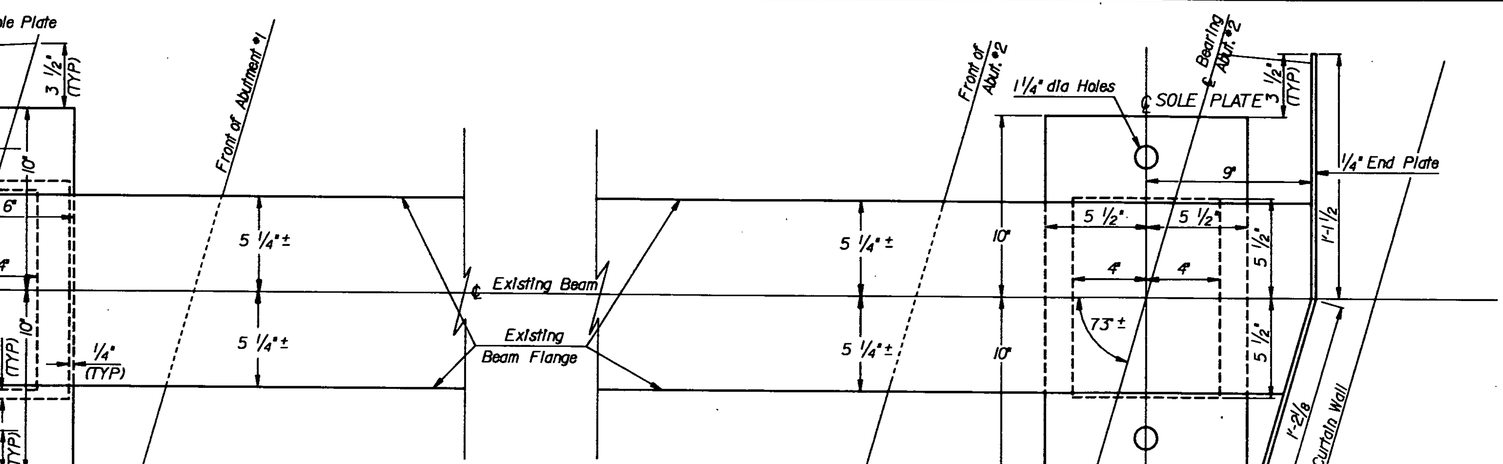


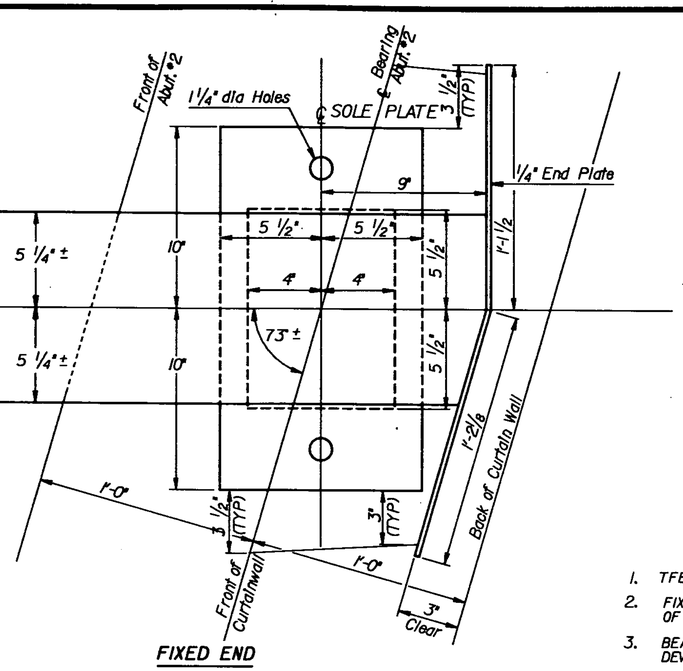
EXPANSION END



BEAM CUTOFF & SOLE PLATE DETAILS

Scale 3" = 1'-0"

NOTE: Existing beams may not be cut-off as shown. See GENERAL NOTE #6

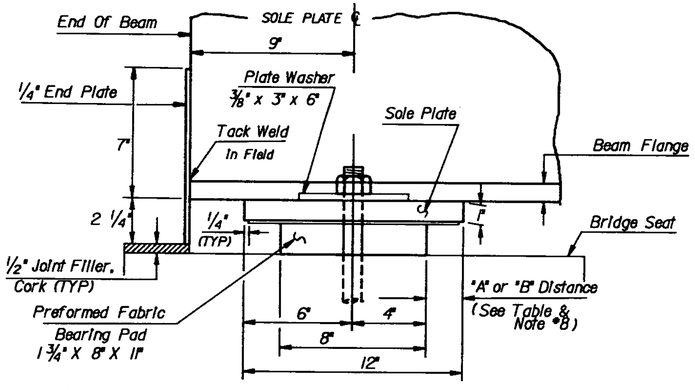


FIXED END

TEMP	"A" DIST	"B" DIST
0°F	2 3/16"	2 5/16"
15°F	2 1/8"	2 1/4"
30°F	2 1/16"	2 3/16"
45°F	2"	2 1/8"
60°F	1 15/16"	2 1/16"
75°F	1 7/8"	2"
90°F	1 13/16"	1 15/16"

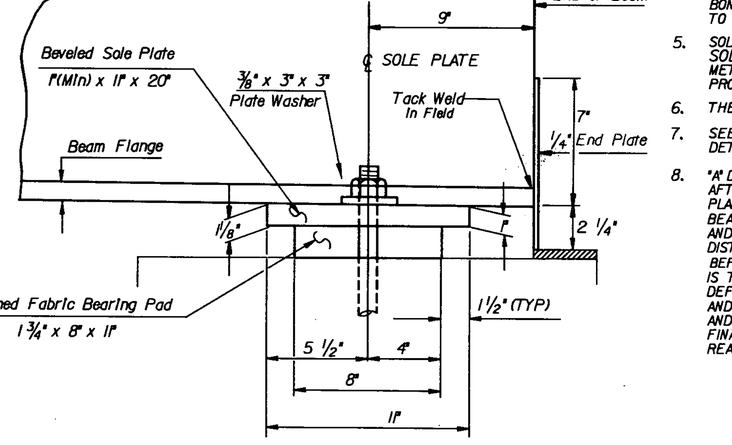
SOLE PLATE & BEARING DETAIL NOTES

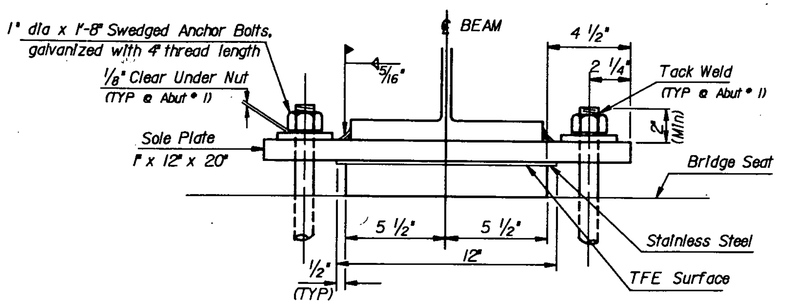
1. TFE EXPANSION BEARINGS SHALL CONFORM TO SUBSECTION 731.
2. FIXED BEARINGS SHALL CONFORM TO ALL APPLICABLE SECTIONS OF SUBSECTION 731 (OMIT TFE & STAINLESS STEEL).
3. BEARINGS SHALL BE PAID FOR UNDER THE ITEM "BEARING DEVICE ASSEMBLY".
4. SHOP DRAWINGS CONFORMING TO SUBSECTION 506.04 MUST BE SUBMITTED, AND INCLUDE THE WELDING PROCEDURE IF THE STAINLESS STEEL PLATE IS GOING TO BE WELDED TO THE SOLE PLATE, OR THE BONDING PROCEDURE IF THE STAINLESS STEEL PLATE IS BONDED TO THE SOLE PLATE.
5. SOLE PLATES SHALL BE BEVELED AS SHOWN ON THIS SHEET. ALSO, SOLE PLATES AND WASHERS ARE TO BE GALVANIZED OR METALLIZED AS PER GENERAL SPECIAL PROVISION 731.06 FOR THIS PROJECT.
6. THE CONCRETE SURFACE UNDER THE BEARINGS SHALL BE LEVEL.
7. SEE STANDARD DRAWING SCB-09-71 DETAIL "A" FOR ADDITIONAL DETAILS FOR BLOCKING OUT THE BEARINGS IN THE CURTAIN WALLS.
8. "A" DISTANCE IS THE FINAL SETTING FOR THE BEARING PAD AFTER THE CONCRETE SLAB, CURB, AND BRIDGE RAIL ARE IN PLACE. HOWEVER, MOST CONTRACTORS LIKE TO ADJUST THE BEARING PAD AFTER THE STRUCTURAL STEEL HAS BEEN ERECTED AND BEFORE THE CONCRETE DECK IS POURED. THEREFORE, "B" DISTANCE IS LISTED FOR CONTRACTORS WHO SET BEARING PAD BEFORE POURING DECK. THE DIFFERENCE, 1/8 INCHES, IS THE ELONGATION IN THE BOTTOM FLANGE DUE TO DEAD LOAD DEFLECTION CAUSED BY THE CONCRETE SLAB, CURBS, PAVEMENT, AND BRIDGE RAIL. THIS DIFFERENCE IS A THEORETICAL DISTANCE AND SHOULD NOT BE CONSIDERED AS A FINAL SETTING. THE FINAL "A" DISTANCE, AS SHOWN IN THE TABLE, MUST BE REACHED WITHIN 1/8 INCH ±.



Side Elevation

Scale 3" = 1'-0"

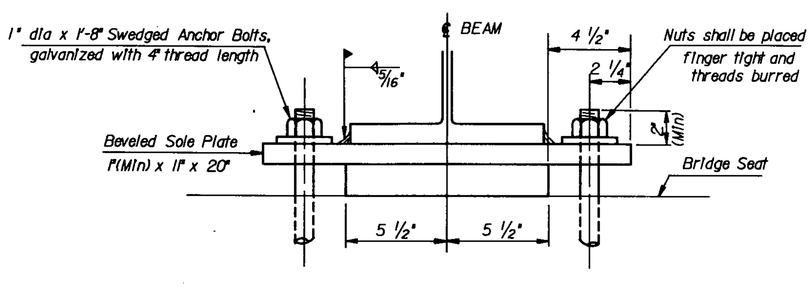




Front View

Scale 3" = 1'-0"

EXPANSION BEARING DETAILS



FIXED BEARING DETAILS

STATE OF VERMONT
AGENCY OF TRANSPORTATION

Town Of Montgomery	Bridge No. 15
Highway No. Vt Rte 118	Log Sta. 296 + 30
	Surv. Sta. Rev 55 + 62.85
Vt Rte 118 over the Trout River	
Sole Plate & Bearing Details	
Designed By R. Sikora	Drawn By E. Blodgett
Checked By R. Sikora Date 7/84	Bridge Design Supervisor F.W. Bolkum Date 12/84
PROJECT Montgomery	PROJECT NO. BHS 0283(6)S
L.G.C. Info.	USAN 30,23,17 BE15 BRG.DGN
Bridge Sheet No.	Sheet 11 of 46

BR-6