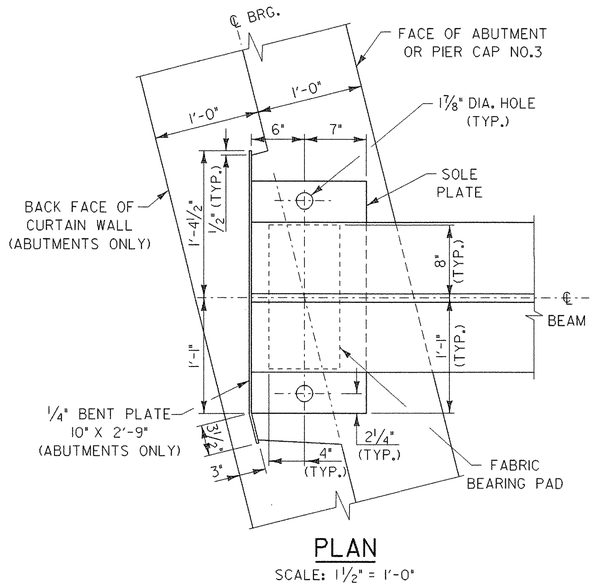
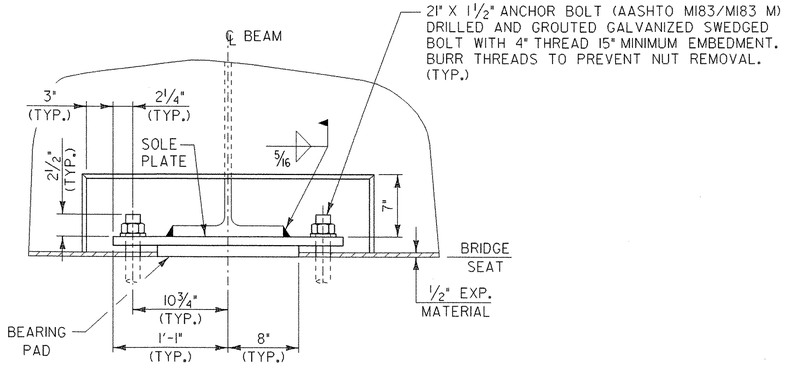


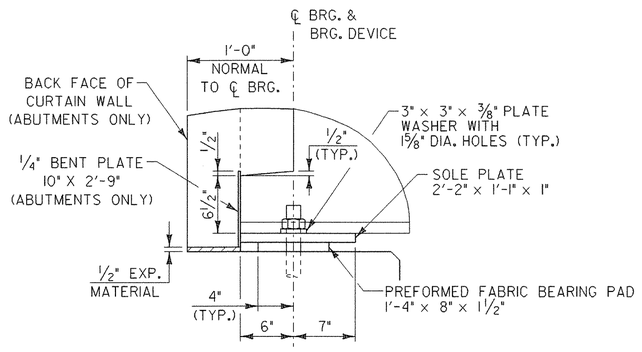

## PLAN

SCALE: 1 1/2" = 1'-0"




## FRONT ELEVATION

SCALE: 1 1/2" = 1'-0"




## SIDE ELEVATION

SCALE: 1 1/2" = 1'-0"

## BEARING NOTES

1. BEARINGS SHALL BE PAID FOR UNDER ITEM 531.10, "BEARING DEVICE ASSEMBLY (FABRIC)" AND SHALL CONFORM TO APPLICABLE SUBSECTIONS OF SECTION 531 AND 731.
2. NEW 1 1/2" ANCHOR BOLTS SHALL BE INSTALLED BY DRILLING HOLES AND GROUTING THE BOLTS INTO THE ABUTMENT OR PIER SEATS. DRILLING AND GROUTING THE ANCHOR BOLTS SHALL BE INCIDENTAL TO ITEM 531.10, " BEARING DEVICE ASSEMBLY (FABRIC)".
3. THE FIELD WELD CONNECTING THE BOTTOM FLANGE WITH THE BEARING DEVICE SHALL BE MADE WITH E7018 ELECTRODES. THE CONTRACTOR SHALL ENSURE THE HEAT FROM WELDING DOES NOT DAMAGE THE BEARING PAD. AREAS OF GALVANIZING OR METALIZING DAMAGED BY WELDING AND/OR HANDLING SHALL BE REPAIRED IN ACCORDANCE WITH SECTION 513. WELD PROCEDURES MUST BE SUBMITTED FOR REVIEW.
4. ALTERNATE CONFIGURATIONS FOR BEARINGS MAY BE SUBMITTED FOR APPROVAL. ANY ALTERNATE SUBMITTED SHALL BE DESIGNED AND CERTIFIED TO MEET THE DESIGN LOADS AND CRITERIA SHOWN ON THIS SHEET AND SHALL MAINTAIN THE ANCHORAGE SYSTEM SHOWN.
5. MASONRY SURFACES UNDER BEARINGS SHALL BE SMOOTH AND LEVEL BEFORE INSTALLING BEARING DEVICES. EXISTING ANCHOR BOLTS SHALL BE CUT FLUSH AND SMOOTH WITH THE BRIDGE SEAT.
6. **BEARINGS MUST BE INSTALLED BEFORE THE DIAPHRAGMS AND ANCHOR BOLTS ARE INSTALLED.**
7. DESIGN CRITERIA:
   A. BEARING PAD TO CONCRETE DESIGN PRESSURE = 1000 PSI MAXIMUM
   B. MINIMUM ALLOWABLE DESIGN ROTATION = 0.019 RADIANS.
   C. HORIZONTAL CAPACITY SHALL BE A MINIMUM 10% OF VERTICAL LOAD
   D. DESIGN LOAD PER BEARING (UNFACTORED)

| | | | |
|---|---|---|---|
| | DL = 41.7 KIPS | | DL = 23.2 KIPS |
| (SPANS 2-5) | LL+I = 60.1 KIPS | (SPANS 1) | LL+I = 58.0 KIPS |
| | SDL= 14.9 KIPS | | SDL + 9.6 KIPS |

8. ALL JACKING AND SHORING REQUIRED TO REPLACE BEARINGS WILL BE PAID FOR UNDER ITEM 502.11, "SHORING SUPERSTRUCTURE BEARINGS". THE CONTRACTOR SHALL SUBMIT DETAILS AND CALCULATIONS FOR SHORING AND JACKING AS SPECIFIED IN SECTION 502.
9. THE WORK REQUIRED TO REMOVE EXISTING BEARINGS IN ORDER TO INSTALL NEW BEARINGS AS SHOWN ON THE PLANS, SHALL BE INCLUDED IN ITEM 529.20, "PARTIAL REMOVAL OF STRUCTURE".
10. FABRICATION DRAWINGS CONFORMING TO SUBSECTION 531.03 SHALL BE SUBMITTED AND INCLUDE ANY NECESSARY WELDING OR BONDING PROCEDURES.
11. SOLE PLATES, ANCHOR BOLTS NUTS AND WASHERS SHALL BE GALVANIZED OR METALIZED AS PER SUBSECTION 531.04(b) AND 506.15. IF THE BEARINGS ARE METALIZED, THEY SHALL BE SEALED WITH AN APPROVED PRIMER AS SPECIFIED IN SUBSECTION 506.15. 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 (FABRIC)".
12. ALL STEEL IN BEARING DEVICES (EXCEPT STAINLESS STEEL) AS WELL AS THE 1/4" PLATE SHALL BE AASHTO M270 GRADE 36.
13. FABRICATION DRAWINGS SHALL IDENTIFY THE NUMBER OF LAYERS OF VULCANIZED SHEETS AND CORRESPONDING SHEET THICKNESS TO BE USED FOR FABRICATING THE BEARING PAD AND SHALL INCLUDE DETAILED PROCEDURES FOR BONDING THESE SHEETS TOGETHER.

# STATE OF VERMONT
## AGENCY OF TRANSPORTATION

| | |
|---|---|
| Town Of CAMBRIDGE | Bridge No. 20 |
| Highway No. VT 15 | Log Sta. / Surv. Sta. |
| VT 15 OVER LAMOILLE RIVER | |
| FIXED BEARING DETAILS | |
| Designed By E.A. HARTWELL | Drawn By R.A.ROSS |
| Checked By R. SACCHI Date | Bridge Design Supervisor R. R. WHITCOMB Date 11/3/2006 |
| PROJECT CAMBRIDGE | PROJECT NO. BHF 030-2(19)S |
| I.G.C. Info. | zb308bd2.dgn |
| Bridge Sheet No. | Sheet 36 of 68 |