

GENERAL NOTES

1.0 GENERAL

- 1.1 THE CONTRACTOR MUST VERIFY ALL DIMENSIONS PRIOR TO FABRICATION TO ENSURE ACCURACY OF THE EXPANSION JOINT.

DIMENSIONS VERIFIED: _____

- 1.2 ALL WORK SHALL COMPLY WITH THE VERMONT AGENCY OF TRANSPORTATION'S STANDARD SPECIFICATIONS FOR CONSTRUCTION DATED 2011, AND ITS LATEST REVISIONS AND THE AASHTO STANDARD SPECIFICATIONS FOR HIGHWAY BRIDGES, SIXTEENTH EDITION AND ITS LATEST REVISIONS, EXCEPT AS NOTED HEREIN.

- 1.3 ALL DIMENSIONS ARE IN INCHES UNLESS OTHERWISE NOTED.

- 1.4 IN CASE OF DIFFERENCE ON THE CONTRACT PLANS BETWEEN SCALE DIMENSIONS AND FIGURES, THE FIGURES SHALL BE FOLLOWED.

2.0 STANDARD SPECIFICATION CRITERIA

3.0 SPECIAL PROVISION CRITERIA

4.0 MATERIALS

- 4.1 ALL STRUCTURAL AND PERMANENT MATERIALS SHALL BE OF DOMESTIC ORIGIN, AND MATERIAL CERTIFICATION STATING ALL SUCH MATERIALS ARE "MELTED AND MANUFACTURED" IN THE UNITED STATES OF AMERICA SHALL BE SUBMITTED.

- 4.2 STEEL BARS, PLATES AND SHAPES SHALL CONFORM TO ASTM A 36.

- 4.3 STRUCTURAL USE AND GENERAL USE BOLTS, NUTS AND WASHERS SHALL CONFORM TO THE REQUIREMENTS OF ASTM A-325. BOLTS, NUTS AND WASHERS SHALL CONFORM TO THE REQUIREMENTS OF ASTM A-325, A-563 AND F-436 RESPECTIVELY. SCREWS SHALL CONFORM TO THE REQUIREMENTS OF ASTM F-835.

- 4.4 THE FABRIC TROUGH SHALL BE ONE CONTINUOUS FABRIC PIECE FOR THE FULL LENGTH OF THE EXPANSION JOINT.

- 4.5 THE CONCRETE ANCHOR STUDS SHALL BE IN ACCORDANCE WITH ASTM A-108.

5.0 INSPECTION REQUIREMENTS

- 5.1 IN HOUSE SHOP INSPECTION BY A REPRESENTATIVE OF VERMONT AGENCY OF TRANSPORTATION INDEPENDENT OF WATSON BOWMAN ACME CORP.'S QUALITY CONTROL INSPECTOR IS REQUIRED.

- 5.2 QUALITY CONTROL INSPECTION

- 5.2.1 DURING FABRICATION OF THE EXPANSION JOINT, WATSON BOWMAN ACME SHALL PROVIDE FULL TIME QUALITY CONTROL INSPECTION TO INSURE THAT THE MATERIALS AND WORKMANSHIP MEET OR EXCEED THE MINIMUM REQUIREMENTS OF THE CONTRACT.

6.0 FABRICATION

- 6.1 FABRICATION SHALL BE IN ACCORDANCE WITH WATSON BOWMAN ACME'S QUALITY CONTROL MANUAL AND MANUFACTURING TOLERANCE.
- 6.2 ALL WELDING SHALL BE IN ACCORDANCE WITH AWS D1.5 WELDING SPECIFICATIONS.
- 6.3 ALL WELDING SHALL BE EXECUTED USING GMAW PROCESSES. SEAL WELD ALL CONNECTIONS WHERE POSSIBLE PRIOR TO GALVANIZING.
- 6.4 STUDS SHALL BE INSPECTED VISUALLY AND SHALL BE GIVEN A LIGHT BLOW WITH A HAMMER. ANY STUD WHICH DOES NOT HAVE A COMPLETE END WELD OR DOES NOT EMIT A RINGING SOUND WHEN STRUCK WITH A LIGHT BLOW WITH A HAMMER SHALL BE REPLACED.
- 6.5 STUDS SHALL NOT BE LOCATED MORE THAN 1" FROM THE LOCATION SHOWN ON THESE SHOP DRAWINGS.
- 6.6 THE FABRIC TROUGH SHALL BE THOROUGHLY CLEANED AND FLUSHED AFTER PAVING OPERATION. A DRIP BEAD OD 1/4" x 7" PREFORMED FABRIC MATERIAL SHALL BE CEMENTED TO THE BOTTOM OF THE FABRIC TROUGH USING AN ADHESIVE APPROVED BY THE MANUFACTURER. THE DRIP BEAD SHALL BE APPLIED 1" FROM THE DOWNSPOUT END OF THE TROUGH.
- 6.7 THE EXPANSION JOINT OPENING SHALL BE PRESET BY THE MANUFACTURER, TO THE DIMENSION SHOWN AT 45°F. FINAL ADJUSTMENTS SHALL BE MADE IN THE FIELD BY THE CONTRACTOR AT THE DIRECTION OF THE ENGINEER IN CHARGE, PRIOR TO FINAL CONCRETE PLACEMENT.
- 6.8 STUDS MAY BE BENT TO AN ANGLE OF 30° TO AVOID INTERFERENCE WITH DECK REINFORCEMENT, OR TO PROVIDE PROPER CONCRETE COVER.
- 6.9 AFTER FABRICATION, BUT BEFORE SHIPPING, STRAIGHTEN STEEL SHAPES SO THAT THEY ARE FREE FROM WARP, TWIST AND SWEEP.
- 6.10 FOR PAYMENT PURPOSES THE LENGTH OF THE JOINT PAID FOR WILL BE THE NUMBER OF LINEAR METERS OF JOINT SYSTEM INSTALLED, MEASURED HORIZONTALLY AND VERTICALLY ALONG THE CENTERLINE OF THE JOINT SYSTEM BETWEEN THE OUTER LIMITS OF THE BRIDGE FASCIA UNLESS OTHERWISE SHOWN ON THE PLANS.

7.0 COATINGS

- 7.1 THE EXPANSION JOINT ASSEMBLY, INCLUDING THE SUPPORT ANGLES, SHALL BE GALVANIZED. IN ACCORDANCE WITH ASTM A-123. THE WELDED EMBEDMENT PLATE WITH STUDS AND FIELD WELDED 1" DIA THREADED STUDS SHALL NOT BE GALVANIZED.
- 7.2 REPAIR DAMAGED HOT-DIP GALVANIZING ACCORDING TO AASHTO M-111. REPAIRED AREAS TO BE "COLD GALVANIZED". PRODUCT SHALL BE 82% ZINC DUST AND HAVE A DRY FILM THICKNESS EQUAL TO OR GREATER THAN THE ORIGINAL GALVANIZING. AEROSOL CANS SHALL NOT BE USED.
- 7.3 PRIOR TO GALVANIZING, ALL CORNERS AND EDGES OF STEEL PLATES, SHAPES, ETC., SHALL BE GROUND TO A 1.6mm (5/64") RADIUS.

The 1 1/4" x 5 1/2" bars shall be furnished in eight pieces, four pieces per side. The maximum length of any one piece shall not exceed 17'-1 3/8"

Either the 33 foot or the 34 foot section of joint shall be assembled prior to shipping, with the fabric trough included.

Vermont Agency of Transportation

RECEIVED

CK'D BY M.E.M. OK'D BY C.W.M.

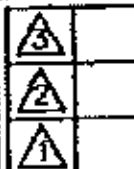
Aug. 21, 2012

RESUBMIT APPROVED AS NOTED
BY C. CARLSON DATE 09-05-2012

STATE: VERMONT
COUNTY: BENNINGTON
PROJECT NO.: ER BHF 010-1(44)
REFERENCE NO.: XXXXXXXXX
DISTRICT: XXX ROUTE: XXX
WBA PRODUCT NO.: EMB143833AA

SHEET NUMBER
FIRM DESIGNATION
FIRM NUMBER
2e1
MARK SYSTEM

DRAWING ACTION:



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PROJECT: WOODFORD
VT RT 9 BRIDGE NO. 11 OVER ROARING
BRANCH OF THE WALLOOMSAC RIVER
WABO PLATE JOINT W/NEOPRENE TROUGH DETAILS

DESIGNED BY KF	DATE 8-14-12
CHECKED BY JFW	DATE 8-14-12
SCALE NTS	WBA JOB NO. 143833
SHEET NO. 1 OF 5	DRAWING NO. B-30085