

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" ADOPTED ~~2001~~ ²⁰⁰⁶ EXCEPT AS MODIFIED IN THE CONTRACT DOCUMENTS.
- 1.3 MODULAR JOINT ASSEMBLIES SHALL CONFORM TO SECTION 516 "EXPANSION DEVICES".
- 1.4 ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE NOTED.
- 1.5 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

SHALL MEET THE REQUIREMENTS OF SPECIAL PROVISIONS SECTION

4.0 MATERIALS

500.640, "BRIDGE EXPANSION JOINT, MODULAR"

- 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 HILTI HAS ANCHOR ROD ASSEMBLIES AND RICHMOND THREADED INSERTS SHALL BE OF A FOREIGN ORIGIN AS SUPPLIED BY THE MANUFACTURER.
- 4.3 STEEL BARS, PLATES AND SHAPES SHALL CONFORM TO ASTM A 588 (ASTM A709M GRADE 345W EXCLUDING ANY CHARNY V-NOTCH TESTING).
- 4.4 SUPPORT ANGLES SHALL CONFORM TO ASTM A 36.
- 4.5 CURB COVER PLATE SHALL CONFORM TO ASTM A 36.
- 4.6 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-583 AND F-436 RESPECTIVELY. SCREWS SHALL CONFORM TO THE REQUIREMENTS OF ASTM F-635.
- 4.7 NEOPRENE STRIP SEAL SHALL BE IN ACCORDANCE WITH ASTM D2528 WITH THE EXCEPTION OF THE RECOVERY AND COMPRESSION DEFLECTION TEST REQUIREMENTS.
- 4.8 CHEMICAL CURING ANCHOR ADHESIVE SHALL BE IN ACCORDANCE WITH THE APPROVED MATERIALS LIST.

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.

5.2.2 DURING THE INITIAL STAGES OF THE JOINT SYSTEM INSTALLATION, THE CONTRACTOR SHALL HAVE PRESENT A REPRESENTATIVE OF THE MANUFACTURER

ENGINEER PLEASE VERIFY

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 AASHTO DIVISION II AND ANSI/ AWS D1.5.
- 6.3 ALL WELDING SHALL BE EXECUTED USING GMAW PROCESSES.
- 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 ^{25mm} (ONE INCH) FROM THE LOCATION SHOWN ON THESE SHOP DRAWINGS.
- 6.6 THE NEOPRENE SEALS SHALL BE SHOP INSTALLED BY THE MANUFACTURER.
- 6.7 THE EXPANSION JOINT OPENING SHALL BE PRESET BY THE MANUFACTURER, TO THE DIMENSION SHOWN AT 20°C. 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.

SEAL WELDS ALL CONNECTIONS WHERE POSSIBLE PRIOR TO GALVANIZING

PER UTRAMS STANDARD SPECIFICATIONS SECTION 107.22 (b) THE TOTAL COST OF FOREIGN MATERIAL SHALL NOT EXCEED 0.1% OF THE TOTAL CONTRACT PRICE

7.0 COATINGS

- 7.1 THE EXPANSION JOINT ASSEMBLY, INCLUDING THE SUPPORT ANGLES, SHALL BE UNCOATED.
- 7.2 THE SIDEWALK COVER PLATES SHALL BE HOT DIP GALVANIZED IN ACCORDANCE WITH AASHTO M-111.
- 7.3 REPAIR DAMAGED HOT-DIP GALVANIZING ACCORDING TO AASHTO M-111. THE ZINC COATING SHALL BE REPAIRED BY THOROUGHLY WIRE BRUSHING THE DAMAGED AREAS AND REMOVING LOOSE AND CRACKED COATING, AFTER WHICH THE CLEANED AREAS SHALL BE PAINTED WITH TWO (2) APPLICATIONS OF UNTHINNED ZINC-RICH PRIMER (ORGANIC VEHICLE TYPE). AEROSOL CANS SHALL NOT BE USED.

GALVANIZED

7.4 PRIOR TO GALVANIZING ALL CORNERS AND EDGES OF STEEL PLATES, SHAPES, ETC, SHALL BE GROUNDED TO A 1.6mm (1/16") RADIUS

INSPECTION REQUIRED

TVGA CONSULTANTS

NO EXCEPTIONS TAKEN REJECTED
 FURNISH AS CORRECTED
 REVISE AND RESUBMIT

ENGINEER has reviewed Shop Drawings and Samples and other data which Contractor is required to submit, only for conformance with the information given in the Contract Documents and compatibility with the design concept of the completed Project as a functioning whole as indicated in the Contract Documents. Such reviews do not extend to means, methods, techniques, sequences or procedures of construction or to safety precautions and programs incident thereto. Such reviews do not extend to any LEED certification or accreditation. Contractor is responsible for dimensions to be confirmed and correlated at the job site; for information that pertains solely to the fabrication processes or to techniques of construction; and for coordination of the work of all trades.

BY: *[Signature]*
 DATE: *6/1/2010*

VERMONT AGENCY OF TRANSPORTATION
 COUNTY: BENNINGTON
 PROJECT NO.: AC NH 019-1(51)
 CAPITAL PROJECT ID NO.: ---
 BRIDGE NO.: B15, B15N, B15S
 WBA PRODUCT DESCRIPTION: MODULAR
 WBA PRODUCT NO.: STM126770AA

MARK SYSTEM

DRAWING ACTION:
 SUBMITTED FOR APPROVAL
 1/20/10

NO.	DESCRIPTION	DATE	DATE

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		CHECKED BY: <u>TEB</u>	DATE: <u>1/7/10</u>
PROJECT: <u>WWII VETERAN'S MEMORIAL HIGHWAY VT ROUTE 279, PRINCIPAL ARTERIAL</u>		SCALE: <u>NTS</u>	WBA JOB NO.: <u>126770</u>
WBA MODULAR STM-600 EXPANSION JOINT DETAILS		SHEET NO.: <u>1 of 14</u>	DRAWING NO.: <u>B-27574</u>