GENERAL NOTES

1 CONSTRUCTION SPECIFICATIONS:

ALL MATERIALS AND CONSTRUCTION SHALL CONFORM TO STATE OF VERMONT, AGENCY OF TRANSPORTATION STANDARD SPECIFICATIONS FOR CONSTRUCTION, DATED 2011, AND ITS LATEST REVISIONS, AND THE AMERICAN ASSOCIATION OF STATE HIGHWAY AND TRANSPORTATION OFFICIALS (A.A.S.H.T.O.) STANDARD SPECIFICATIONS FOR HIGHWAY BRIDGES, SIXTEENTH EDITION, AND ITS LATEST REVISIONS.

2 MATERIAL SPECIFICATIONS:

UNLESS NOTED, ALL NEW STRUCTURAL STEEL CONFORM TO AASHTO M270 GRADE 50W (ASTM A709--50W).

MATERIAL NOTED "CVN" ON DETAIL DRAWINGS SHALL BE CHARPY V-NOTCH TESTED IN ACCORDANCE WITH THE REQUIREMENTS OF VERMONT STANDARD SPECIFICATIONS (SUBSECTION 714.01).

HIGH STRENGTH BOLTS: AASHTO M164 (ASTM A325) 7/8" DIA. IN 15/16" DIAMETER HOLES (U.N).

TYPE 3 SHALL BE USED FOR UNPAINTED CONNECTIONS.
TYPE 1 (GALV.) SHALL BE USED FOR PAINTED CONNECTIONS.

3. FABRICATION:

BOLT HOLES SHALL BE FABRICATED TO THE REQUIREMENTS OF THE AASHTO LRFD BRIDGE CONSTRUCTION SPECIFICATIONS, SECTION 11.4.8, EXCEPT THAT HOLES SHALL NOT BE PUNCHED FULL SIZE.

STUDS ARE FURNISHED AND FIELD APPLIED BY OTHERS.

IDENTIFICATION MARKS ON UNPAINTED STEEL SHALL BE IMPRESSED INTO THE MEMBER (WITH A LOW-STRESS STAMP) IN A NON-STRESSED OR LOW STRESSED AREA OF THE MEMBER.

TIGHT FIT (WELDED ENDS ONLY). 50% OF THE PROJECTED BEARING AREA SHALL BE IN CONTACT WITHIN 0.5mm(0.02") WITH A PERMISSIBLE VARIATION OF 1.6mm($\frac{1}{16}$") FOR THE REMAINING 50% OF THE PROJECTED AREA.

GRIND TO BEAR. 75% OF THE PROJECTED AREA SHALL BE IN CONTACT WITHIN 0.25mm(0.01") WITH A PERMISSIBLE VARIATION OF 0.8mm($\frac{1}{32}$") FOR THE PROJECTED AREA.

MILL TO BEAR. 100% OF THE PROJECTED BEARING AREA SHALL BE IN FULL CONTACT.

4 WELDING:

THE CONFIGURATION OF THE WELD JOINTS AND ALL WELDING PROCEDURES SHALL BE IN ACCORDANCE WITH AASHTO/AWS D.1.5-02 BRIDGE WELDING CODE AND WITH THE SPECIFICATIONS SHOWN BESIDE. ALL WELDING WILL BE DETAILED TO PRE-QUALIFIED JOINTS, UNLESS PROHIBITED BY THE DESIGNER.

WELDING OF MAIN LOAD CARRYING MEMBERS AND ATTACHMENTS SHALL BE PERFORMED USING THE AUTOMATIC SUBMERGED ARC & SHIELDED METAL ARC PROCESS. ALL WELDS ARE CONTINUOUS U.N.

NON DESTRUCTIVE TESTING OF WELDS SHALL BE IN ACCORDANCE WITH THE REFERENCED SPECIFICATION.

5 CLEANING:

ALL STEEL THAT WILL REMAIN UNPAINTED SHALL BE BLAST CLEANED AS PER SSPC SP--10 PER SPEC. 506.14(a)

ALL STEEL THAT WILL BE PAINTED SHALL BE BLAST CLEANED AS PER SSPC SP--6 PER SPEC. 513.04(a)

6 PAINT:

ALL STEEL COMPONENTS WITHIN A DISTANCE OF 10'-0" (DIAPHRAGMS AND CROSS--FRAMES INCLUDED) FROM THE CENTER LINE OF BEARING (ABUTMENT #1) SHALL BE COATED WITH THE PROTECTIVE SYSTEM ACCORDING TO SECTION 513 OF THE SPECIFICATION. PAINT SYSTEM MUST BE LISTED ON THE QUALIFIED PRODUCT LIST. THE PAINT SHALL BE BROWN COLOR CHIP NO.20059 PER SECTION 513.02. PROTECTIVE GREASE SHALL BE APPLIED IN THE FIELD BY OTHERS PER SUPPLEMENTAL SPECIFICATION 513.

PAINT MANUFACTURER:
SHERWIN WILLIAMS

PRODUCT SYSTEM:
PRIMER COAT: ZINC CLAD III HS 100, ORGANIC ZINC RICH EPOXY PRIMER, 3--5 MILS DFT
INTERMEDIATE COAT: MACROPOXY 646--100, FAST CURE EPOXY, 5--10 MILS DFT
TOP COAT: ACROLON 218 HS, ACRYLIC POLYURETHANE, 3--6 MILS DFT
TOP COAT COLOR: FEDERAL STANDARD 595 COLOR NO. 20059 BROWN.

FAYING SURFACES OF BOLTED CONNECTIONS SHALL MEET THE CLASS "B" SLIP COEFFICIENT VALUE OF NOT LESS THAN 0.50 AS SPECIFIED BY AASHTO.

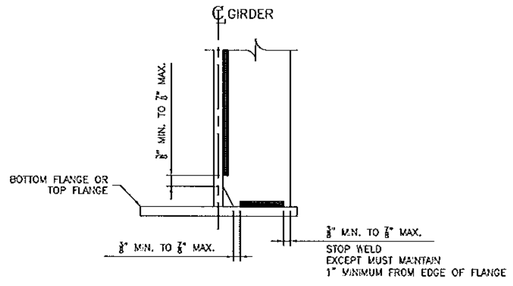
7 FIELD CONNECTIONS:

ALL FIELD CONNECTIONS SHALL BE MADE WITH 7/8" DIAMETER HIGH STRENGTH BOLTS AASHTO M164 (ASTM A325) TYPE 3 OR 1 AS NOTED, IN 15/16" DIAMETER HOLES UNLESS OTHERWISE NOTED. INSTALLED PER 506.19(c) AND SPECIAL PROVISIONS.

BOLTS SHALL HAVE HEAVY HEX. NUT, HEX. HEAD & ONE FLAT WASHER EACH (WASHER TO BE PLACED UNDER TURNED ELEMENT).

PIECE MARKS WILL BE LOCATED AS SHOWN ON ERECTION DRAWING.

BOLTS INSTALLED WITH THE STEM VERTICAL SHALL HAVE THE HEADS UP.
BOLTS INSTALLED WITH THE STEM HORIZONTAL SHALL HAVE THE HEADS TOWARDS THE WEATHER UNLESS CLEARANCE RESTRICTIONS DICTATE OTHERWISE.



TYPICAL WELD DETAIL

No	REVISION	DATE	PAR	VER.
A	FOR APPROVAL	07/06/12	BR	EG

NOTE: BOLT 1 WASHER: 1 WASHER UNDER NUT U.N.
BOLT 2 WASHER: 1 WASHER UNDER HEAD U.N.
1 WASHER UNDER HEAD U.N.

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PROJECT:
VT RT 9, BRIDGE NO. 11
TOWN OF WOODFORD, VT
OVER WALOOMSAC RIVER

TITLE: GENERAL NOTES

REFERENCE: PROJECT NO. ER BHF 010-1 (44)

DRAWN BY	DATE	CONTRACT NO
EG	JULY 2012	UN04260
CHECKED BY	DATE	DRAWING NO
BR	JULY 2012	GN100 A

Vermont Agency of Transportation
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CK'D BY M.E.M OK'D BY C.W.M.
July 09, 2012
RESUBMIT _____ APPROVED ✓
BY C. CARLSON DATE 07-27-2012