GENERAL NOTES

CONSTRUCTION SPECIFICATIONS

1) ALL MATERIAL AND WORKMANSHIP TO BE IN ACCORDANCE WITH THE STATE OF VERMONT AGENCY OF TRANSPORTATION STANDARD SPECIFICATIONS FOR CONSTRUCTION DATED 2011 WITH LATEST REVISIONS AND THE AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS, 7TH EDITION WITH INTERIMS THROUGH 2016 AND VTRANS GENERAL SPECIAL PROVISIONS DATED APRIL 7, 2016. ⚠1

MATERIAL SPECIFICATIONS

1) UNLESS OTHERWISE NOTED, ALL STEEL TO BE AASHTO M270 (ASTM A709) GRADE 50.

2) MATERIAL NOTED "CVN" OR "T2" ON DETAIL DRAWINGS SHALL BE CHARPY V-NOTCH TESTED IN ACCORDANCE WITH THE REQUIREMENTS OF VERMONT STANDARD SPECIFICATIONS SECTION 714.01.

3) HIGH STRENGTH BOLTS:
⚠2 -ASTM A325 (AASHTO M164) TYPE 1 MECHANICALLY GALVANIZED. NUTS SHALL BE A563 GRADE DH MECHANICALLY GALVANIZED. WASHERS SHALL BE F436-1 MECHANICALLY GALVANIZED.
-BOLTS, NUTS & WASHERS SHALL CONFORM TO VERMONT STANDARD SPECIFICATIONS SECTION 714.05. ⚠1

⚠1 4) DIRECT TENSION INDICATORS (DTI) SHALL BE MECHANICALLY GALVANIZED ⚠2 ARE REQUIRED FOR ALL HIGH STRENGTH BOLTS EXCEPT FOR BOLTS USED ON ACCESS HATCH.

⚠2 5) ALL MECHANICALLY GALVANIZED BOLTS, NUTS AND WASHERS ARE TO GALVANIZED PER ASTM B695, CLASS 55.

FABRICATION

⚠1 1) ALL HOLES SHALL BE DRILLED FULL SIZE (DN).

WELDING

1) THE CONFIGURATION OF THE WELD JOINTS AND ALL WELDING PROCEDURES SHALL BE IN ACCORDANCE WITH AASHTO/AWS D1.5-15 ⚠1 BRIDGE WELDING CODE AND IN ADDITION TO SPECIFICATIONS SHOWN ABOVE. ALL WELDING WILL BE DETAILED TO PRE-QUALIFIED JOINTS, UNLESS PROHIBITED BY THE DESIGNER.

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

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

4) SEE DETAIL "WS1" ON THIS DRAWING FOR WELD TERMINATION DETAIL.

5) SHOP APPLIED STUDS SHALL BE AUTO END WELDED.

PAINTING:

1). ALL STEEL SHALL BE BLAST CLEANED TO SSPC SP-10 PRIOR TO PAINTING.

⚠2 ⚠1 2). PROVIDE "MIST COATING" OR "DUSTING" WITH PRIMER ON TOP OF TOP FLANGE.

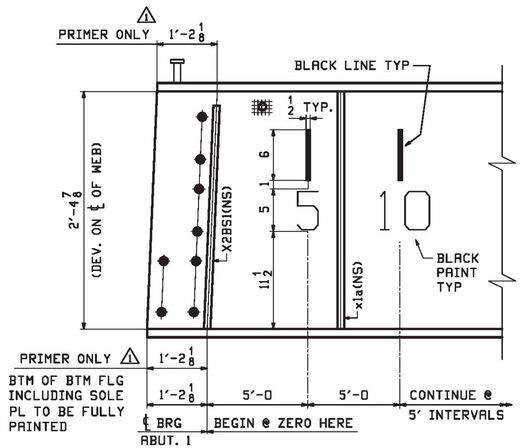
3). ALL STEEL SHALL BE PAINTED WITH A SYSTEM I OZ/E/U PAINT, OTHER THAN THE AREAS LISTED IN 2).
- PRIMER: 3.5-5 MILS DFT OF CARBOZINC 859 ORGANIC ZINC RICH EPOXY PRIMER
- INTERIM: 3-6 MILS DFT OF CARBOGUARD 893 EPOXY INTERMEDIATE (RED)
⚠1 - TOPCOAT: 3-4 MILS DFT OF CARBOTHANE 133 VOC ALIPHATIC POLYURETHANE

4). THE TOP COAT OF THE EXTERIOR SURFACE SHALL BE LIGHT GULL GRAY, FEDERAL STANDARD 595, COLOR CHIP 16440.

5). THE TOP COAT OF THE INTERIOR SURFACE SHALL BE INSIGNIA WHITE, FEDERAL STANDARD 595, COLOR CHIP 17925.

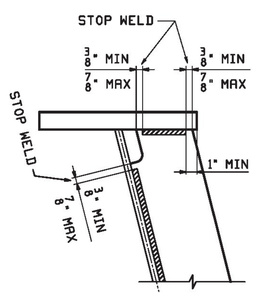
6). THE INTERIOR OF THE FS WEB OF EACH GIRDER SHALL BE MARKED AT FIVE FOOT INTERVALS BEGINNING AT ABUT. 1. SEE DETAIL "PM1". USE APPROVED PAINT ONLY.

⚠1 7). FAYING SURFACES SHALL RECIEVE PRIMER COAT ONLY.



DETAIL "PM1"

INTERIOR FACE OF FAR WEB ONLY (REFER TO SHT 1CD)
APPLY AFTER FINAL INTERIOR COAT

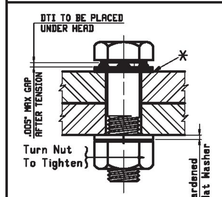
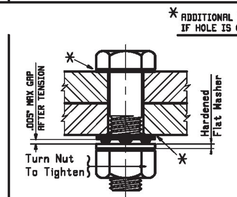
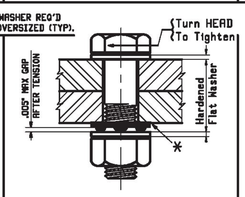
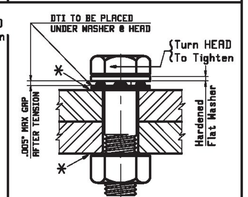


DETAIL "WS1"

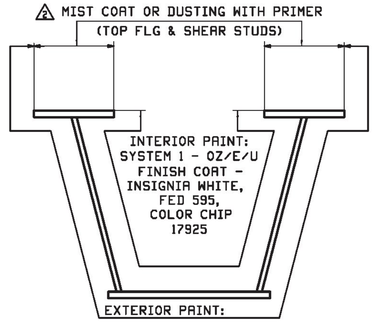
STIFF. WELD TERMINATION

⚠1

DETAILS FOR POSITIONING DTI (LIW) WASHERS (PER ASTM F-959)

DTI UNDER HEAD - TURN NUT	DTI UNDER NUT - TURN NUT	DTI UNDER NUT - TURN HEAD	DTI UNDER HEAD - TURN HEAD
			
BOLT DETAIL "DTI1" THIS IS THE PREFERED METHOD.	**BOLT DETAIL "DTI2"** DTI UNDER NUT FOR VISIBILITY.	**BOLT DETAIL "DTI3"** DTI UNDER NUT FOR VISIBILITY. 2 HARD FLAT WASHERS ARE REQ'D	**BOLT DETAIL "DTI4"** DTI UNDER HEAD FOR VISIBILITY.

⚠2 MIST COAT OR DUSTING WITH PRIMER (TOP FLG & SHEAR STUDS)



PAINT SECTION

TYPICAL EXCEPT @ ABUT ENDS

NOTE TO ENGINEER:

THESE NOTES ARE NOT INTENDED TO BE ALL INCLUSIVE AND COMPLIANCE WITH RELEVANT SPECIFICATIONS REMAIN UNCHANGED.

REV.	DATE	REMARKS	DWN	CHK	APVL	SHOP
⚠2	03/07	REVISED PER APPROVALS	RRL	WJL		
⚠1	02/15	REVISED PER APPROVALS	RRL	WJL		
0						

MATERIAL:	SURFACE PREP. & PAINT:	HOLES:	SHOP BOLTS:

DESCRIPTION: GENERAL NOTES

CASCO BAY STEEL STRUCTURES, INC.
1 WALLACE AVE. PHONE (207) 780-6722
SOUTH PORTLAND, ME 04106 FAX. (207) 780-6725
TENSOR 3435

STRUCTURE: VT ROUTE 110 OVER 1ST BRANCH WHITE RIVER BRIDGE NO. 9	DRAWN: RRL	DATE: 01/02	
	CHKD: WJL	DATE: 01/11/17	
LOCATION: TOWN OF CHELSEA, ORANGE COUNTY, VT.	JOB NO. 696	DWG NO. GN1	
PROJ NO. BHF 0169(9)		REV. ⚠2	
CUSTOMER: CPM CONSTRUCTORS			

T.Y. LIN INTERNATIONAL

THE STAMPED DOCUMENTS ARE HEREBY:

__X__ APPROVED
____ APPROVED AS NOTED
____ REVISE AND RESUBMIT

SEE TRANSMITTAL FOR ADDITIONAL INFORMATION AS APPLICABLE.

THIS REVIEW IS FOR GENERAL CONFORMANCE WITH DESIGN CONCEPT ONLY. ANY DEVIATION FROM THE PLANS OR SPECIFICATIONS NOT CLEARLY NOTED BY THE CONTRACTOR HAS NOT BEEN REVIEWED. REVIEW BY THE ENGINEER SHALL NOT RELIEVE THE CONTRACTOR OF THE CONTRACTUAL RESPONSIBILITY FOR ANY ERRORS OR DEVIATION FROM THE CONTRACT REQUIREMENTS.

JOSH OLUND (REVIEWER) March 10, 2017 (DATE)

Vermont Agency of Transportation
RECEIVED
CK'D BY TYLin OK'D BY TYLin
March 8, 2017
RESUBMIT No Approved
BY Kristin Higgins DATE 3/10/2017

Tue, Mar 7, 2017 04:07:23 PM /users/jobs/1435/Ch1 1 Rev2 WJL