

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 2006 WITH LATEST REVISIONS AND THE AASHTO LRFD BRIDGE CONSTRUCTION SPECIFICATIONS FOR HIGHWAY BRIDGES 4th EDITION WITH INTERIMS THROUGH 2010.

MATERIAL SPECIFICATIONS

- 1) ALL STEEL SHALL BE AASHTO M270 GRADE 50 AND SHALL BE GALVANIZED PER SUBSECTION 506.15, WITH THE FOLLOWING EXCEPTIONS:
 - A. ALL STANDARD ANGLE ROLLED SHAPES, EXCEPT FOR THE ANGLES CONNECTING THE END FLOOR BEAMS SHALL BE AASHTO M270 GRADE 36.
 - B. THE TWO END FLOORBEAM MEMBERS SHALL BE AASHTO M270 HIGH PERFORMANCE STEEL GRADE HPS 70W.
 - C. ALL TOP CHORD GUSSET PLATES SHALL BE AASHTO M270 HIGH PERFORMANCE STEEL GRADE HPS 70W.
- 2) MATERIAL NOTED "T2" OR CVN ON DETAIL DRAWINGS SHALL BE CHARPY V-NOTCH TESTED IN ACCORDANCE WITH THE REQUIREMENTS OF VERMONT STANDARD SPECIFICATIONS SECTION 714.01.
- 3) MATERIAL NOTED "F2" OR FCM (FRACTURE CRITICAL MEMBERS) ON DETAIL DRAWINGS SHALL MEET THE FOLLOWING CONSTRUCTION AND TESTING REQUIREMENTS:
 - A. ALL FRACTURE CRITICAL MEMBERS SHALL BE FABRICATED ACCORDING TO SECTION 12 OF THE AASHTO/AWS D1.5 BRIDGE WELDING CODE.
 - B. ALL FRACTURE CRITICAL MEMBERS SHALL BE FABRICATED IN A PLANT HAVING AN AISC FRACTURE CRITICAL ENDORSEMENT OR THE FABRICATOR SHALL PROVIDE TO THE STRUCTURES ENGINEER AN ACCEPTABLE FRACTURE CONTROL PLAN MEETING THE REQUIREMENTS OF AASHTO/AWS D1.5, PRIOR TO FABRICATION.
 - C. ALL FRACTURE CRITICAL MEMBERS SHALL BE IMPACT TESTED TO THE FRACTURE CRITICAL REQUIREMENTS AS SPECIFIED IN AASHTO M270.
- 4) HIGH STRENGTH BOLTS: ASTM A325 TYPE 1 GALVANIZED PER SECTION 506 (UN). NUTS SHALL BE A563 GRADE DH GALVANIZED. LOAD INDICATOR WASHERS (LIW) SHALL BE USED AS THE METHOD FOR PRETENSIONING ALL BOLTED TRUSS CONNECTIONS. BOLTS & NUTS SHALL BE ROTATIONAL CAPACITY TESTED. DO NOT MIX NUTS & BOLTS FROM DIFFERENT CONTAINERS UNLESS ALL BOLTS & NUTS HAVE THE SAME LOT NUMBER.
- 5) ALL STRUCTURAL CONNECTIONS INCORPORATING THE BEVELED SIDE OF A STANDARD BEAM, CHANNEL OR ANGLE SHALL USE THE CORRESPONDING GALVANIZED ASTM F436 BEVELED WASHERS.

FABRICATION

- 1) ALL HOLES SHALL BE DRILLED FULL SIZE (UN).
- 2) NO FIELD DRILLING, REAMING, OR CUTTING OF TRUSS OR CONNECTION MEMBERS.

WELDING

- 1) ALL WELDING SHALL CONFORM TO THE PROVISIONS OF SUBSECTION 506.10.
- 2) NON DESTRUCTIVE TESTING OF WELDS SHALL BE IN ACCORDANCE WITH THE REFERENCED SPECIFICATION.
- 3) SHEAR CONNECTORS FOR TRUSS MEMBERS SHALL BE ATTACHED IN THE SHOP, PRIOR TO GALVANIZING. WELDING AND INSPECTION OF SHEAR CONNECTORS SHALL CONFORM TO THE PROVISIONS OF SUBSECTION 508.
- 4) SEE DETAIL "WS1" ON THIS DRAWING FOR WELD TERMINATION DETAIL.

SURFACE PREPERATION

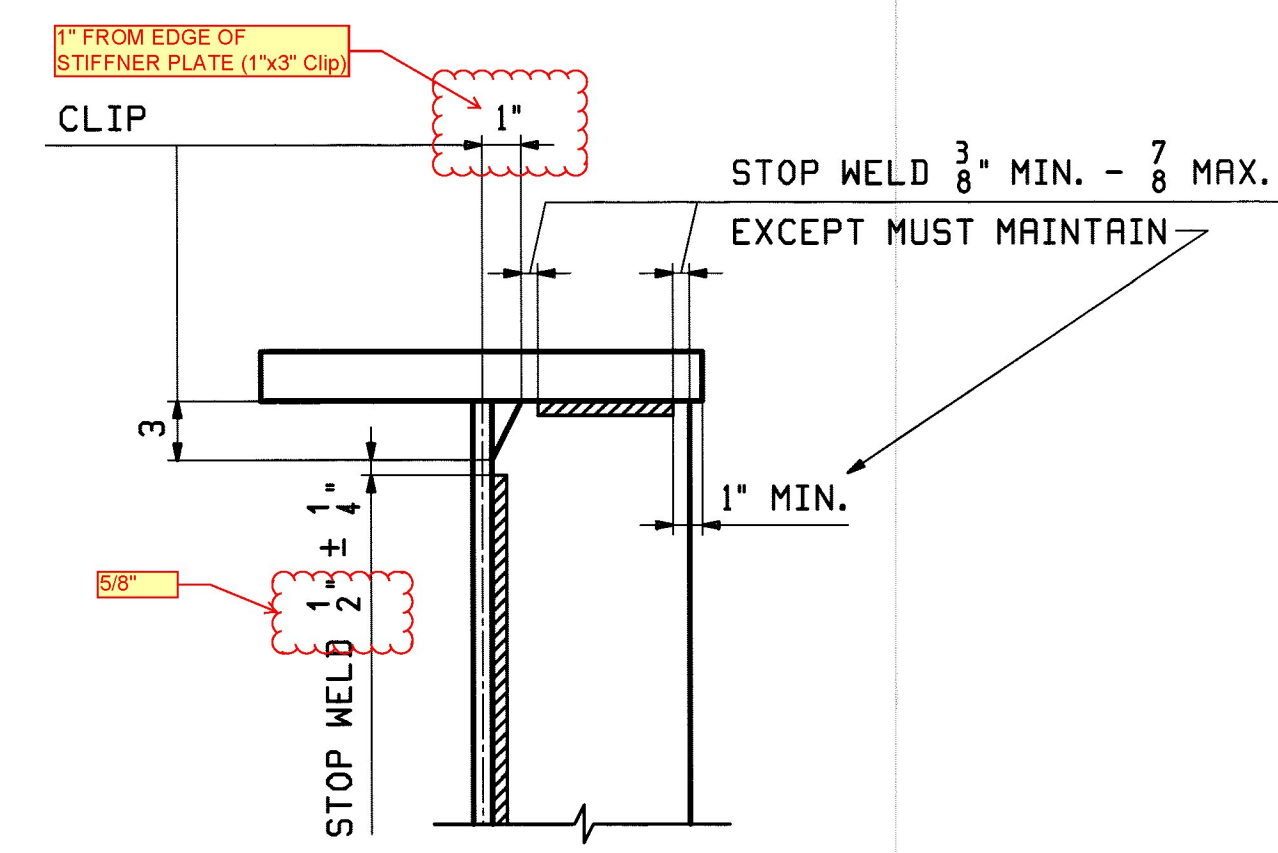
- 1) PRIOR TO GALVANIZING, ALL CORNERS AND EDGES OF STEEL PLATES, SHAPES, ETC., SHALL BE GROUND TO A 1/16" RADIUS.
- 2) ALL STEEL TO BE GALVANIZED SHALL BE CLEANED TO BE AT LEAST EQUIVALENT TO SURFACE PREPARATION GRADE SSPC-SP8, UNLESS OTHERWISE APPROVED BY THE ENGINEER.

PAINTING

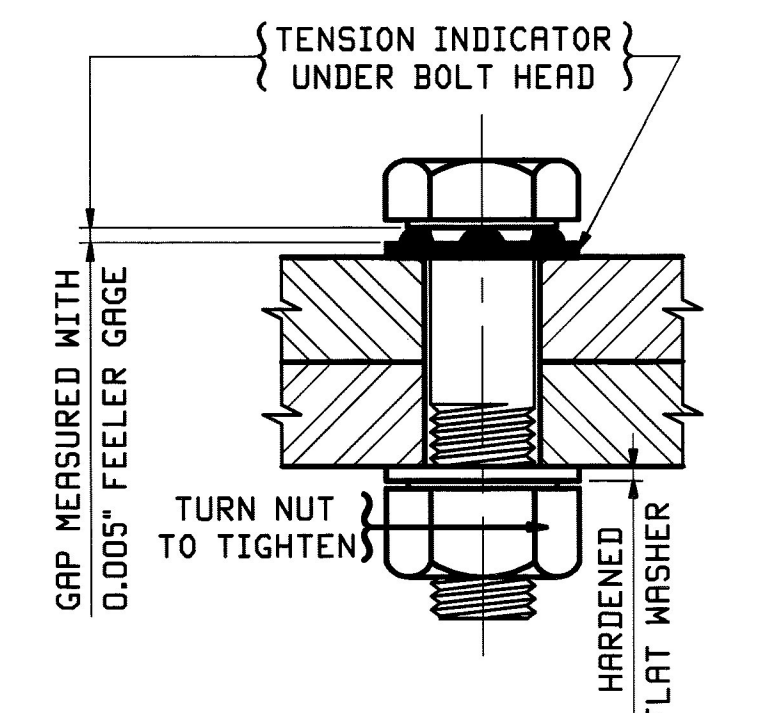
- 1) ALL STEEL SHALL BE HOT DIP GALVANIZED IN ACCORDANCE WITH SUBSECTION 506.15.
- 2) ALL FAYING SURFACES SHALL BE HAND WIRE BRUSHED, OR BRUSH BLASTED, AFTER GALVANIZING TO ACHIEVE AN AASHTO CLASS C SURFACE CONDITION. NO MECHANICAL OR POWER BRUSHING ALLOWED.
- 3) NO FIELD GALVANIZING PERMITTED.

FIELD CONNECTIONS

- 1) ALL FIELD CONNECTIONS SHALL BE MADE WITH 7/8" DIAMETER OR 5/8" DIAMETER HIGH STRENGTH A325 TYPE 1 GALVANIZED BOLTS (UN), INSTALLED PER SECTION 506.19(c).
- 2) BOLTS SHALL HAVE A HEAVY HEX HEAD, ONE HEAVY HEX NUT, ONE LOAD INDICATOR WASHER (LIW), AND AT LEAST ONE FLAT WASHER EACH. WASHER TO BE PLACED UNDER TURNED ELEMENT. SEE "TYPICAL BOLT DETAIL".
- 3) PIECE MARKS WILL BE LOCATED AS SHOWN ON ERECTION DRAWINGS.



DETAIL "WS1"
STIFF. WELD TERMINATION



TYPICAL BOLT DETAIL

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

1/03/12	APPROVAL COMMENTS	EEO	PCP	JAN 9 2012	
0				NOV 18 2011	
REV. DATE	REMARKS	DWN	CHK	APVL	SHOP
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) 780-6726		
STRUCTURE: VT RTE 107 OVER WHITE RIVER		DRAWN:	DATE:		
		EEO	10/18		
		CHKD:	DATE:		
		PCP	10/17		
LOCATION: BETHEL, VT.		JOB NO.	DWG NO.		
PROJ NO. BRF 022-1(14)		498	GN1		
CUSTOMER: BECK & BELLUCCI			REV.		