

TYPICAL ELEVATION - LOOKING AT FACE OF RAIL FROM CENTERLINE OF ROADWAY

BOTH SIDES TYPICAL

Vermont Agency of Transportation

RECEIVED

CK'D BY MJC OK'D BY TAS

April 14, 2014

RESUBMIT No Approved

BY M. J. Chenette DATE 04/24/2014

△ BILL OF MATERIAL

Qty	mk	Description	Spec.
18		W6x20 FASCIA MOUNTED POST 3'-1.000" OAL (GLV)	A572 gr 50
8		W8x24 TRANSITION POST x 6 FT LONG (GLV)	A572 gr 50
52		TUBE BLOCK HSS 8 x 4 x 3/16 x 6.000" LG (GLV)	A500 gr B
10		HDSB W-BEAM PANEL 10 GA 12'-6" LG X 6'-3" SP (GALV)	M180 B2
6		SPLICE CHANNEL C7 X 12.25 x 2'-7.000" w/ (4) TACKWELDED HEX NUTS (GALV)	A572 gr 50
2	G1	TUBULAR STEEL RAIL (GLV) HSS 8 x 4 x 3/16 x 11'-4.000" OAL	A500 gr B
4	G2	TUBULAR STEEL RAIL (GLV) HSS 8 x 4 x 3/16 x 18'-8.000" OAL	A500 gr B
2	G3	TUBULAR STEEL RAIL (GLV) HSS 8 x 4 x 3/16 x 14'-5.000" OAL	A500 gr B
26		RECTANGULAR WASHER 0.1875" x 1.75" x 3.00" (GLV)	A572 GR 50
36		U-SHAPED ANCHOR STUD 1" DIA 10" x 12"	A449
72		PLATE WASHER 0.25" x 2" x 5" w/ 1.25" DIA CENTER HOLE	A572 GR 50
144		HEX NUT (HI STR) 1"	A563 DH
72		ROUND WASHER (SAE) 1"	F436
26		HEX HEAD BOLT 5/8" DIA x 13" LG HDG	A325
26		HEX HEAD BOLT 5/8" DIA x 10" LG HDG	A325
76		HEX HEAD BOLT 5/8" DIA x 2" LG HDG	A325
104		HEX NUT 5/8" HDG	A563 DH
206		ROUND WASHER SMALL FLAT 5/8" HDG	F436
80		PANEL SPLICE BOLT 5/8" x 1.25" HDG	A307
80		DOUBLE RECESS. NUT 5/8" HDG	A563 A

SHOP DRAWING REVIEW

REVIEWED AS REQUIRED BY THE CONSTRUCTION CONTRACT DOCUMENTS AND APPROVED, BUT ONLY FOR CONFORMANCE TO THE DESIGN CONCEPT OF THE WORK, AND SUBJECT TO FURTHER LIMITATIONS AND REQUIREMENTS CONTAINED IN THE CONSTRUCTION CONTRACT DOCUMENTS.

REJECTED REVISE AND RESUBMIT FURNISH AS CORRECTED

CORRECTIONS OR COMMENTS MADE ON THE SHOP DRAWINGS DURING THIS REVIEW DO NOT RELIEVE CONTRACTOR FROM COMPLIANCE WITH REQUIREMENTS OF THE DRAWINGS AND SPECIFICATIONS. THIS CHECK IS ONLY FOR REVIEW OF GENERAL CONFORMANCE WITH THE DESIGN CONCEPT OF THE PROJECT AND GENERAL COMPLIANCE WITH THE INFORMATION GIVEN IN THE CONTRACT DOCUMENTS. THE CONTRACTOR IS RESPONSIBLE FOR: CONFIRMING AND CORRELATING ALL QUANTITIES AND DIMENSIONS; SELECTING FABRICATION PROCESSES AND TECHNIQUES OF CONSTRUCTION; COORDINATING HIS WORK WITH THAT OF ALL OTHER TRADES; AND PERFORMING HIS WORK IN A SAFE AND SATISFACTORY MANNER.

Vanasse Hangen Brustlin, Inc.
7056 US Route 7
North Ferrisburgh, VT 05473
802.425.7788

Job Number: 57427.00
Reviewed By: E.A.FIALA
Date: 04-22-2014

No.	Remarks	Date
A	CORRECTED TRANSITION POSTS / GEN NOTES	3/10/14
0	Initial submittal	03-03-14
REVISIONS		

HIGHWAY SAFETY CORP
GLASTONBURY, CT
860-633-9445

900.640 SPECIAL PROVISION (BRIDGE RAILING GALVANIZED, HDSB FASCIA MOUNTED/STEEL TUBING)

TOWN OF GUILFORD, VT - WINDHAM COUNTY
RT TH10 BRIDGE 65 - BRO 1442(36)

AS9001
CERTIFIED
FABRICATOR

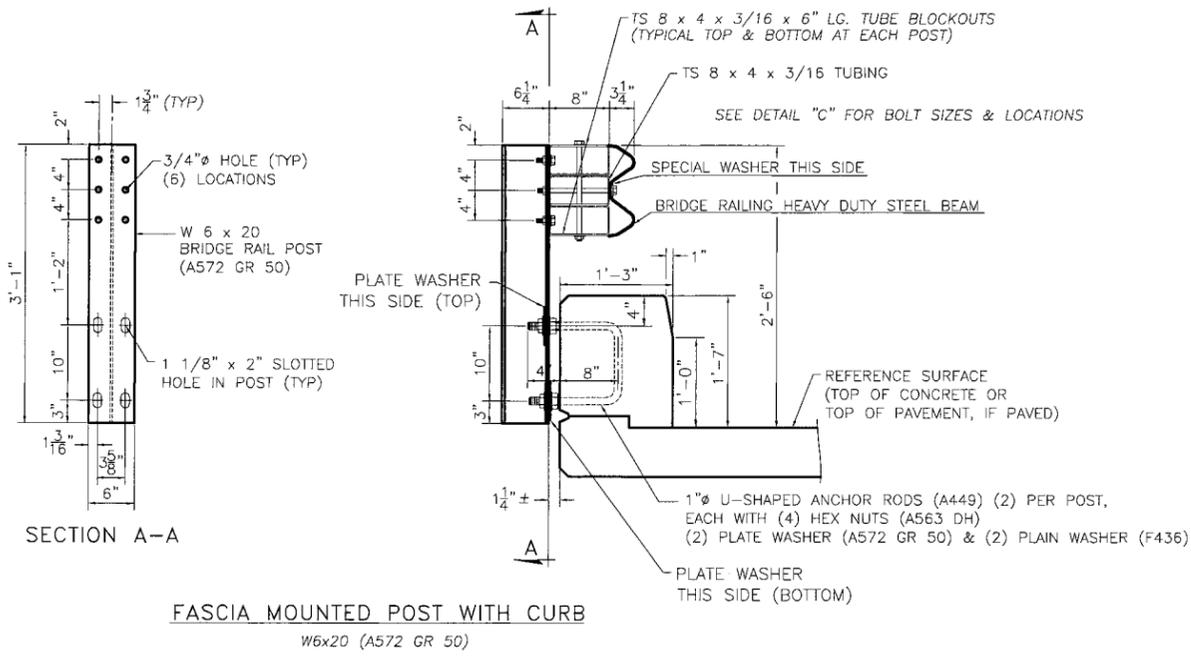
HSDC JOB NO.
1977

SHEET NO.
1 of 2

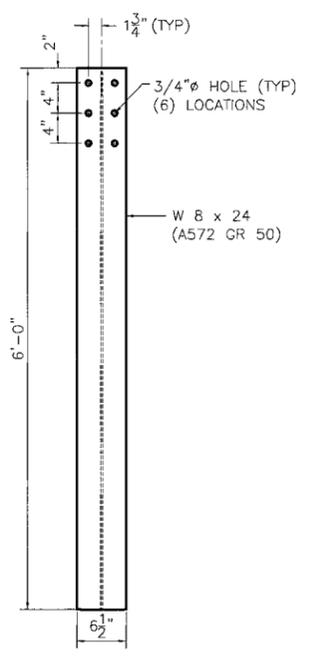
GENERAL CONTRACTOR: _____

SUB CONTRACTOR: LAFAYETTE

DRAWN: PAR CHECKED: [Signature] DATE: 03-03-14 SCALE: NONE SIZE: D



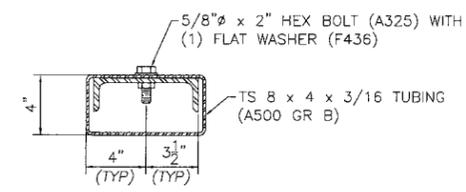
FASCIA MOUNTED POST WITH CURB
W6x20 (A572 GR 50)



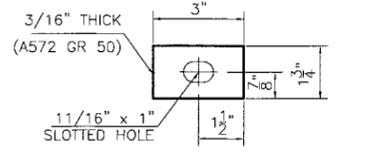
TRANSITION POST
W8x24 (A572 GR 50)

NOTES

1. ALL WORK AND MATERIALS SHALL CONFORM TO SECTION 525
2. PRIOR TO GALVANIZING THE ASSEMBLED POST, GRIND ALL EDGES TO A MINIMUM 1/16" RADIUS
3. ALL POSTS SHALL BE SET NORMAL TO GRADE
4. SPLICES FOR THE STEEL BEAM GUARDRAIL SHALL LAP IN THE DIRECTION OF TRAFFIC
5. A RAILING JOINT SPLICE SHALL BE PROVIDED IN ANY RAIL BAY SPANNING THE END OF AN INTEGRAL ABUTMENT BRIDGE AND AT ALL SUPERSTRUCTURE EXPANSION JOINTS
6. SEE VAOT STANDARD DRAWING G-1 FOR DETAILS OF DELINEATORS. A DELINEATOR SHALL BE INSTALLED AT 30 FT SPACING OR THE NEAREST POST. WHITE IS TO BE INSTALLED ON THE DRIVERS RIGHT. FOR THIS ONE WAY BRIDGE, YELLOW IS TO BE INSTALLED ON THE DRIVERS LEFT
7. FOR RADII LESS THAN 950 FEET, HSS 8 X 4 TUBES SHALL BE SHOP BENT TO FIT THE APPLICABLE CURVE
8. HOLES IN THE RAIL FOR TUBE ATTACHEMENT MAY BE FIELD DRILLED. FIELD DRILLED HOLES SHALL BE COATED WITH IN APPROVED ZINC RICH PAINT PRIOR TO INSTALLATION
9. SEE STANDARD G-1 AND G-1d FOR ADDITIONAL DETAILS CONCERNING GUARDRAIL.



PARTIAL SECTION B-B
SHOWING TUBE & SPLICE ONLY



SPECIAL WASHER DETAIL

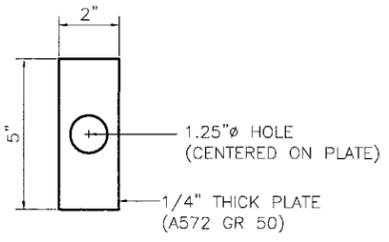
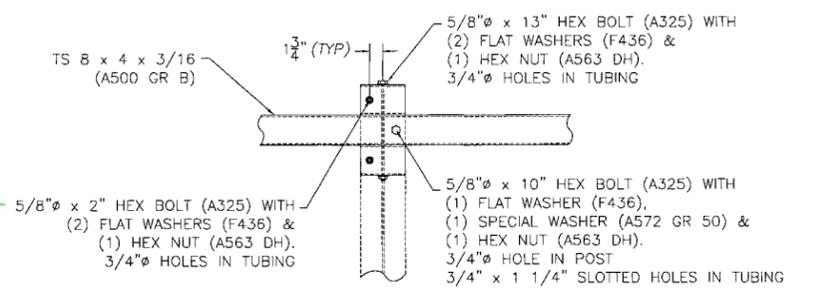
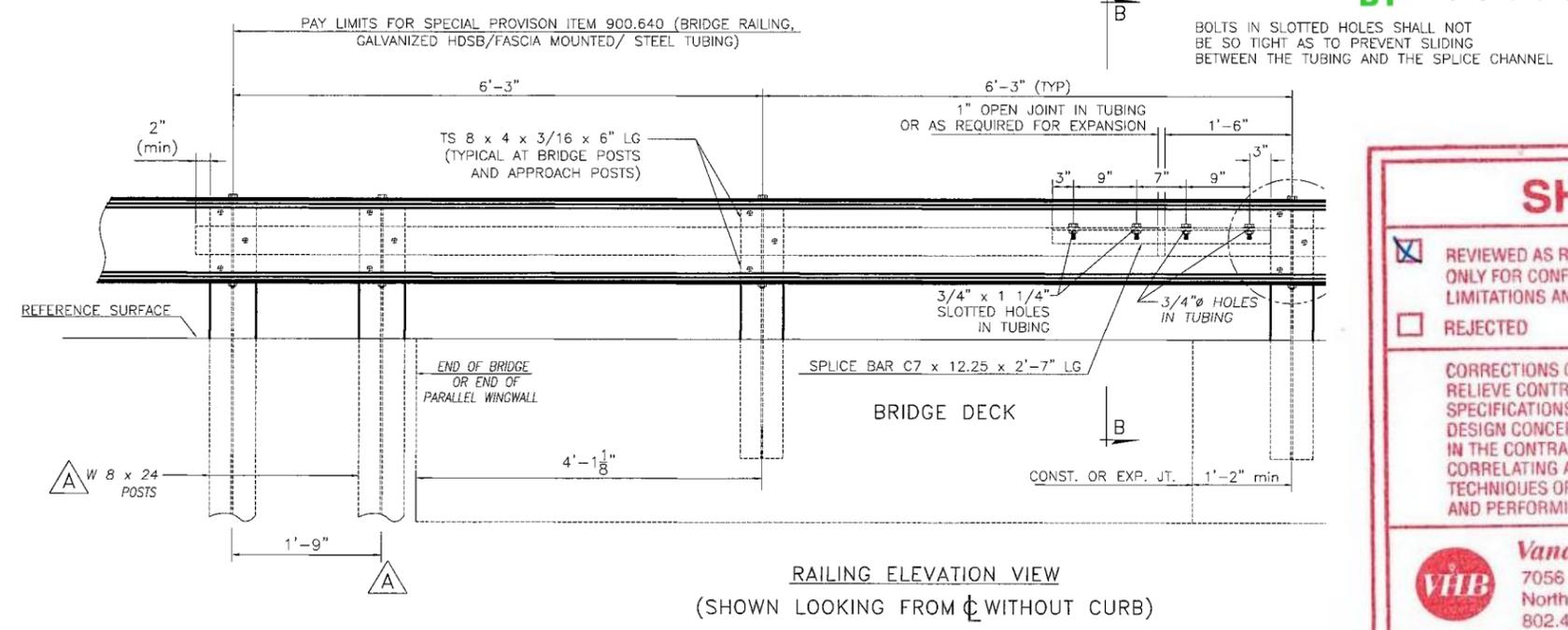


PLATE WASHER DETAIL


 CK'D BY MJC OK'D BY TAS
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 RESUBMIT No Approved
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DETAIL "C"
STEEL BEAM GUARD RAIL NOT SHOWN



RAILING ELEVATION VIEW
(SHOWN LOOKING FROM C WITHOUT CURB)

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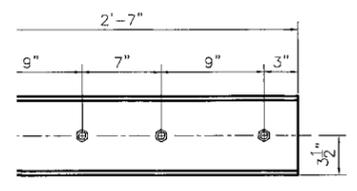
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BAR DETAIL

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GENERAL CONTRACTOR

SUB CONTRACTOR

DRAWN PAR CHECKED DATE 03-03-14 SCALE NONE SIZE D

CERTIFIED FABRICATOR

HSC JOB NO. 1977

SHEET NO. 2 of 2