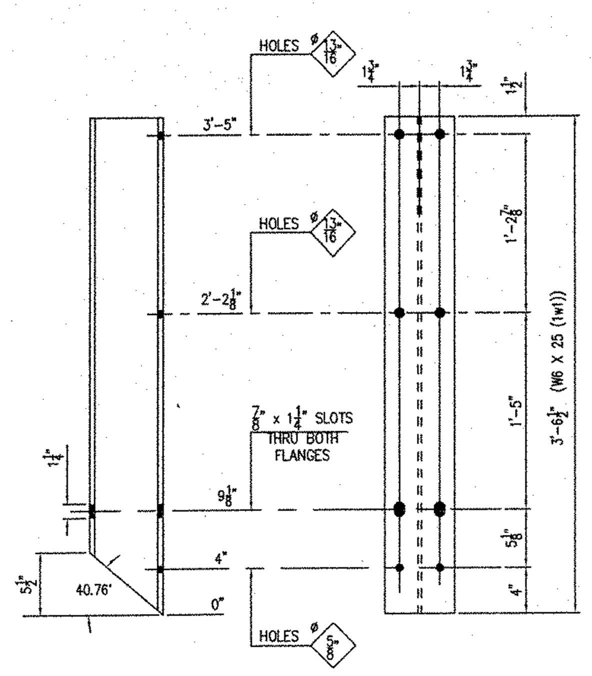


32 – SIDERAIL POSTS – 1A

GENERAL NOTES:

1.) MATERIALS AND WORKMANSHIP SHALL IN ACCORDANCE WITH THE STATE OF VERMONT AGENCY OF TRANSPORTATION "STANDARD SPECIFICATIONS FOR CONSTRUCTION, DATED 2006" AS AMMENDED BY THE LATEST REVISIONS, THE AASHTO STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION, SEVENTEENTH EDITION.

2.) FABRICATION SHALL BE PERFORMED IN ACCORDANCE WITH AASHTO STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION, ANSI/AASHTO/AWS D1.5 AND THE CURRENT INTERIM SPECIFICATIONS AS MODIFIED BY VTRANS SPEC. 506.03.

3.) RAILING MATERIALS SHALL BE ASTM A709 GR 50, UNLESS NOTED OTHERWISE. PER VTRANS SPECIFICATION 732.03(a), (W6 X 25 POSTS SHALL BE CVN TESTED PER 25 FT. LBS. @ 40°F). A

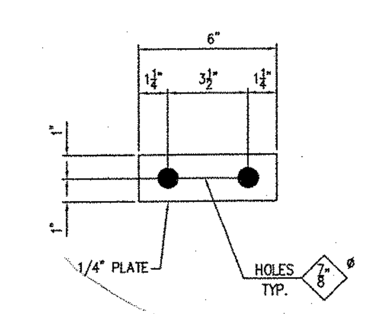
- HOLLOW STRUCTURAL SHAPES TO CONFORM WITH ASTM A500, GRADE B IN ACCORDANCE WITH VTRANS SPECIFICATION 732.03(a), (HSS SHALL BE CVN TESTED PER 15 FT. LBS. @ 40°F). A
- PIPE SHALL BE ASTM A53, GRADE B.
- HARDWARE TO BE IN ACCORDANCE WITH ASTM F568M, CLASS 4.6 (ASTM A307), U.N.O.
- HIGH STRENGTH HARDWARE SHALL BE IN ACCORDANCE WITH AASHTO M164 TYPE 1 (ASTM A325) OR (ASTM 449) AND SHALL BE SUPPLIED IN ACCORDANCE TO VTRANS SPEC. 714.05. WHICH INCLUDES ROCAP, PROOF AND WEDGE TESTING.
- THREADED ROD FOR POST ANCHORAGE SHALL SHALL CONFORM TO ASTM F 1554 GRADE 55 "WELDABLE STEEL".

4.) ALL HARDWARE SHALL BE GALVANIZED IN ACCORDANCE WITH AASHTO M-232 (ASTM A-153)..

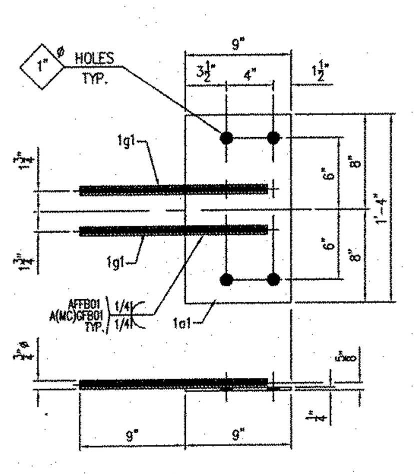
5.) RAILING COMPONENTS SHALL BE GALVANIZED IN ACCORDANCE WITH AASHTO M-111 (ASTM A123), UNLESS NOTED OTHERWISE. RADIUS ALL EDGES 1/16" AND BLAST CLEAN PER SSPC-SP 8 PRIOR TO GALVANIZING AND REPAIR GALVANIZING PER ASTM A780.

6.) FABRICATION SHALL TAKE PLACE IN A FACILITY WITH A MINIMUM AISC CATEGORY III CERTIFICATION OR BE APPROVED BY VTRANS. NON-CERTIFIED FACILITIES MUST SATISFY THE REQUIREMENTS OF VTRANS SPEC. 506.03

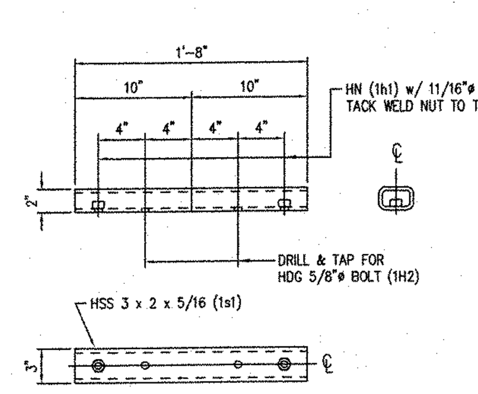
THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS PRIOR TO FABRICATION TO ENSURE ACCURACY OF DESIGN PLANS. STAMPED APPROVED DRAWINGS ASSUME DIMENSIONS HAVE BEEN VERIFIED BY CONTRACTOR.



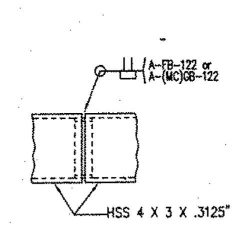
32 – PLATE WASHERS – 1C



32 – ANCHORS – 1B



36 – INSERTS – 1H



OPTIONAL TUBE SHOP SPLICE

	MK	QTY.	DESCRIPTION	MATERIAL	LENGTH	REMARKS	PART NO.
A	1A	32	SIDERAIL POSTS			3'-6 1/2"	
	1w1	32	W6X25	A709 GR 50 OR A992	3'-6 1/2	SHAPE CUT; A123-HDG; CVN	
	1B	32	ANCHORS				
	1a1	32	1/4 X 9	A709 GR 50	1'-3	A123-HDG	
	1g1	64	3/4ø X 16 THREADED ROD	F1554 GR 55		WELDABLE STEEL; A153-HDG	
	1C	32	PLATE WASHERS			0'-6"	
	1c1	32	1/4 X 2	A709 GR 50	0'-6	A123-HDG	
	1H	36	INSERTS			1'-8"	
	1h1	72	5/8ø HEX NUT	A563 GR A		TAPPED OVERSIZED; PLAIN; NONE	
	1s1	36	HSS 3 X 2 X 5/16	A500 GR B	1'-8	SEE GENERAL NOTES FOR TUBE REQ; A123-HDG	
	1B1	135	HEX NUTS				
	1b1	135	3/4ø HEX NUT	A563 GR A		(128); FOR POST ANCHORAGE; A153-HDG	
	1B2	70	FLAT WASHERS				
	1b2	70	3/4ø FLAT WASHER	F844		(64); FOR POST ANCHORAGE; A153-HDG	
	1F1	140	HEX BOLTS				
	1f1	140	7/8ø X 11 HEX HEAD CAP SCREW	A325 OR A449		(128) 2.5" THREAD MIN.; A153-HDG; ROCAP	
	1F2	140	FLAT WASHERS				
	1f2	140	7/8ø FLAT WASHER	F436		(128); A153-HDG; ROCAP	
	1F3	140	MALLEABLE IRON WASHERS				
	1f3	140	7/16 X 7/8ø WASHER PLATE	–		[illegible]	
	1F4	140	HEX NUTS				
	1f4	140	7/8ø HEX NUT	A563 DH		(128); A153-HDG; ROCAP	
	1H2	80	HEX BOLTS				
	1h2	80	5/8ø X 1 1/4 HEX HEAD CAP SCREW	A307 GR A		(72) INSERT HARDWARE; A153-HDG	
	1H3	80	HEX BOLTS				
	1h3	80	5/8ø X 1 3/4 HEX HEAD CAP SCREW	A307 GR A		(72) INSERT HARDWARE; A153-HDG	
	1H4	150	FLAT WASHERS				
	1h4	150	5/8ø FLAT WASHER	F844		(142) INSERT HARDWARE; A153-HDG	
A	1H5	35	PIPE SPACERS				
	1h5	35	P 3/4	A53 SCH 40	0'-0 1/2	(32) INSERT HARDWARE; A123-HDG	
	1M1	140	RAIL BOLTS				
	1m1	140	3/4ø X 6 SLOTTED ROUND HEAD BOLT	A307 GR A		(128) 1 3/4" THREAD; A153-HDG; NONE	
	1M2	140	FLAT WASHERS				
	1m2	140	3/4ø FLAT WASHER	F844		(128); A153-HDG; NONE	
	1M3	140	LOCK NUT				
	1m3	140	3/4ø HEX NUT	A563-A LOCK NUT		(128) LOCK NUT; A153-HDG; NONE	
	1P1	70	LAG SCREWS				
	1p1	70	1/2ø X 6 HEX HEAD CAP SCREW	A307 GR A		[illegible]	
	1P2	70	LOCK WASHERS				
	1p2	70	1/2ø LOCK WASHER	F844		[illegible]	
A	1T1	235	LATTICE BOLTS				
	1t1	235	3/8ø X 7/8 SLOTTED ROUND HEAD BOLT	A307 GR A		(224) FULL THREAD; A153-HDG; NONE	
A	1T2	235	FLAT WASHERS				
	1t2	235	3/8ø FLAT WASHER	F844		(224); A153-HDG	

NOTE: ALL MATERIAL SPECIFICATION DESCRIPTIONS ARE ASTM, UNLESS OTHERWISE NOTED.

RECEIVED
CK'D BY ELR OK'D BY RSY
AUG 07 2007
RESUBMIT ____ APPROVED ✓
BY CPW DATE 8/17/07

STRUCTURES COPY

REV.	DESCRIPTION	DATE	DET.	CKD.
A	PER APPROVAL	7/20/07	JEB	TSF

D.S. BROWN

THE D.S. BROWN COMPANY
300 E. CHERRY STREET
NORTH BALTIMORE, OHIO 45872
419.257.3561
FAX: 419.257.0332
WWW.DSBROWN.COM

LOCATION — TOWNS OF NEW HAVEN & WEYBRIDGE
BRIDGE — 26
PROJECT — ROUTE NO. TH7/11, CL3
F.A.P. NO. — BHO-BTN 2005(1)
P.O. NO. — –
DESIGNER — VERMONT DEPARTMENT OF TRANSPORTATION
CUSTOMER — CONTRACTORS CRANE SERVICE, LLC

ITEM	QUANTITY
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DESCRIPTION	SCALE	DRAWN BY	CHECKED BY	DATE	
POST DETAILS & GENERAL NOTES ADDISON COUNTY, VT	N.T.S.	JEB	TSF	6/15/07	–
	PROJECT NUMBER	PRODUCT CODE	RELEASE	SHEET	
	20388	1206	1	01	

082-BR