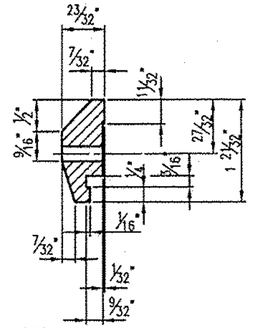
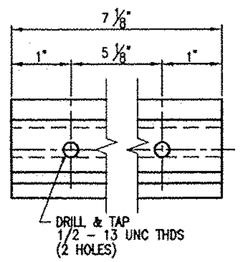
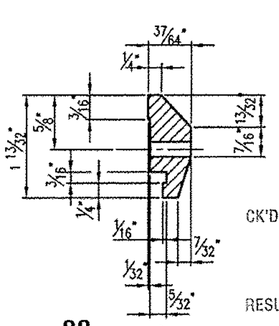


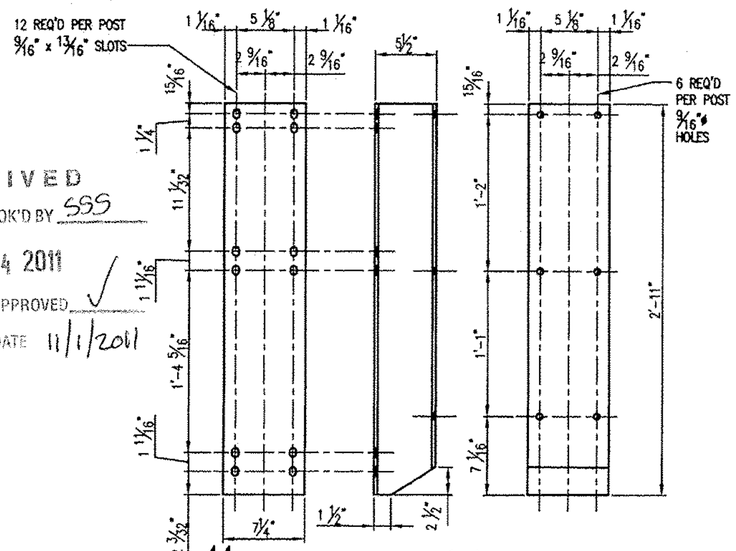


176 ~ REQ'D CLAMP
BAR CB-03-A #19447
(BARRIER RAIL)



88 ~ REQ'D CLAMP BY
BAR CB-01-H #19439
(HANDRAIL)

RECEIVED
CK'D BY WPL OK'D BY SSS
OCT 24 2011
RESUBMIT ____ APPROVED ✓
DATE 11/1/2011



44 ~ REQ'D OFFSET BLOCK 'OB' H-SECTION DETAIL

GENERAL NOTES

ALL MATERIAL AND WORKMANSHIP SHALL BE IN ACCORDANCE WITH VERMONT AGENCY OF TRANSPORTATION STANDARD SPECIFICATIONS FOR CONSTRUCTION DATED 2006 AND ITS LATEST REVISIONS.

DESCRIPTION	ASTM	ALLOY/GR.	REMARKS
RAILS, POSTS, BASES, SPLICES, CLAMP BARS, PINS,	B221	6061-T6 OR 6351-T5	MIN. YIELD STRENGTH Fy = 35,000 psi
RIVETS	B316	6061-T6	BUTTON HD., CONE PT. COLD DRIVEN
OFFSET BLOCKS (H-SECT.)	B308	6061-T6	
STAINLESS STEEL BOLTS	A193	GRADE B8	
STAINLESS STEEL HEX NUTS	A194	GR 8	
STAINLESS WASHERS	A240	TYPE 304	
ANCHOR RODS	A449		GALV. A153
STEEL HEX NUTS	A563	GRADE DH	GALV. A153
STEEL WASHERS	F436		GALV. A153
ANCHOR PLATES	A569		COMMERCIAL QUALITY (PLAIN)
ALUMINUM WASHERS	B209	2024-T3/T4	ALCLAD
PREFORMED PADS			SECTION 731.01 OR 731.02
BACK-UP PLATES	A36		GALV. A123
ELECTRODES FOR WELDING	AWS A5.10 ER5356		

POSTS TO BE NORMAL TO GRADE AND RAILS SHALL BE PARALLEL TO GRADE.
RAILS TO BE ATTACHED TO A MINIMUM OF THREE POSTS WHEN POSSIBLE.

ALL RAILS AND WELDS TO BE FREE FROM ALL BURRS AND ROUGH EDGES.
ENDS OF TUBE SECTIONS SHALL BE SAWED OR MILLED.
GRIND ALL CUT EDGES SMOOTH.

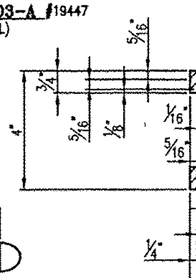
ALL THREADS TO BE UNC CLASS 2A/2B.

ALL EXTRUSION TOLERANCES NOT SHOWN SHALL BE IN ACCORDANCE WITH ASTM B221.

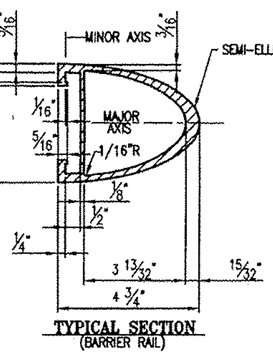
IF CUT THREADS ARE USED, BOLT DIAMETER SHALL NOT BE LESS THAN NOMINAL DIAMETER. IF ROLLED THREADS ARE USED, BOLT DIAMETER SHALL NOT BE LESS THAN THE ROOT DIAMETER OF THREADS

THE SPLICE BAR SHALL BE ATTACHED TO THE RAIL ELEMENT AS FOLLOWS:
THE RAIL SPLICE AT THE BRIDGE EXPANSION JOINT SHALL BE FASTENED ON BOTH SIDES OF THE RAIL SPLICE USING THE PARTIALLY THREADED BOLTS, WITH THE WASHER FACED BOLT, TIGHTENED SECURELY TO THE END OF THREADS, AND LEAVING A 1/8" GAP, THIS ALLOWS EXPANSION ON BOTH SIDES OF THE JOINT.

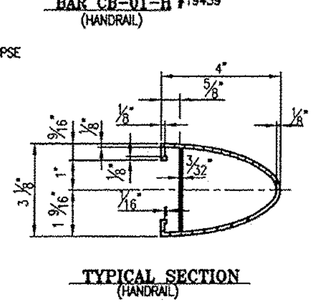
ALL NUTS SHALL COMPLY WITH AMERICAN HEXAGON ANSI SPECIFICATIONS B18.2



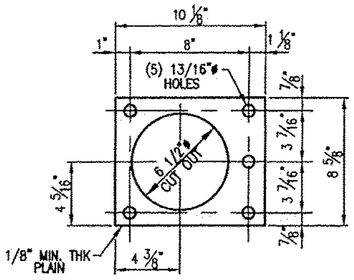
RIVET DETAIL 'rv1'
#19420



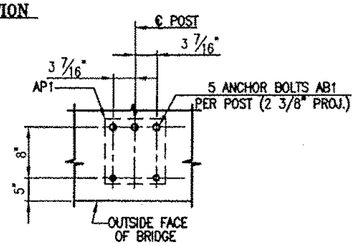
TYPICAL SECTION
(BARRIER RAIL)



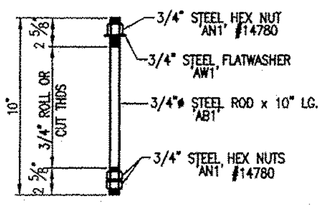
TYPICAL SECTION
(HANDRAIL)



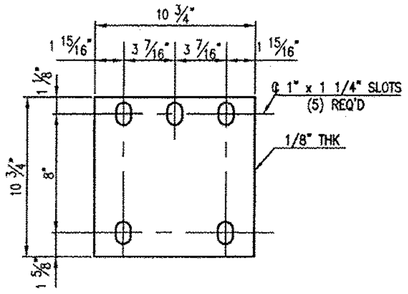
44 ~ REQ'D ANCHOR PLATE AP1
#31286



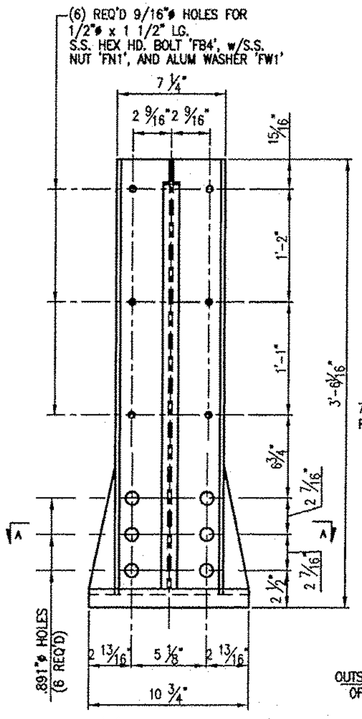
TYPICAL ANCHOR BOLT SETTING



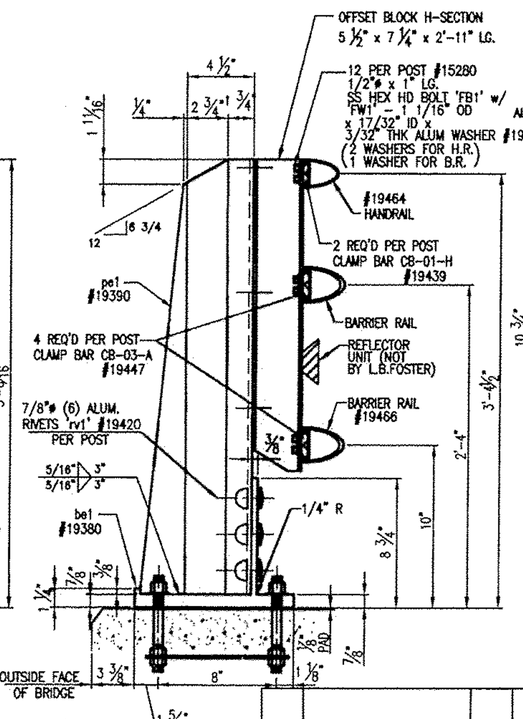
220 ~ REQ'D ANCHOR BOLTS AB1

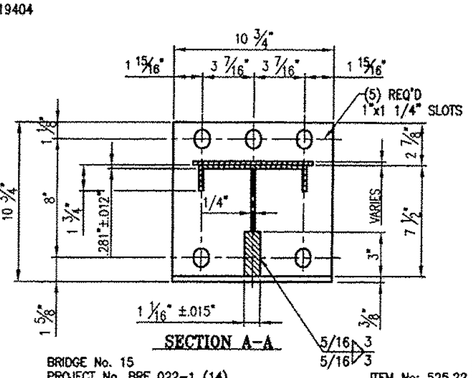


44 ~ REQ'D FABRIC PADS 'EP2'



44 ~ REQ'D FABRICATED RAIL POSTS 'P2'
(REFLECTOR UNITS TO BE SUPPLIED & PLACED BY OTHERS)





BRIDGE No. 15
PROJECT No. BRF 022-1 (14) ITEM No: 525.22

REV.	DESCRIPTION	BY	DATE

LBFoster
Fabricated Bridge Products

L.B. FOSTER COMPANY
1016 GREENTREE RD.
PITTSBURGH, PA 15220

FOR: F. R. LAFAYETTE, INC.
VERMONT AGENCY OF TRANSPORTATION
TOWN OF BETHEL, WINDSOR COUNTY, VT
3-LINE ALUMINUM BRIDGE RAIL (CURBSIDE) FOR VT ROUTE 7
(MINOR ARTERIAL)(CURBSIDE) – GENERAL NOTES & TYPICAL DETAILS

MADE CMS DATE 09/15/11 JOB NO. AR0700
CHECK Dd DATE 10/12/11 DRAWING LB2
REV. NO.