

H = HOLE SIDE  
 SS = SHORT SLOTTED SIDE  
 LS = LONG SLOTTED SIDE

# ANODIZED

- ALL ALUM. COMPONENTS SHALL BE ANODIZED TO A BLACK (HARD SATIN FINISH) COLOR, FED. STD. COLOR No. 27038. THE ANODIC COATING SHALL BE ARCHITECTURAL CLASS I WITH A MIN. THICKNESS OF 0.7 MILS AND A MIN. WEIGHT OF 35 MG/SQ IN
- ALL VISIBLE STN. STL. HARDWARE SHALL BE FIELD PAINTED BLACK TO MATCH THE ANODIZED RAIL. TOUCH UP PAINT SHALL BE PROVIDED.
- SAMPLES SHALL BE SUBMITTED FOR THE ENGINEER'S APPROVAL.

## 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, SPLICES, CLAMP BARS, PINS,	B221/ B308	6061-T6	MIN. YIELD STRENGTH F <sub>y</sub> = 240 MPa (35,000 psi.)
STAINLESS STEEL BOLTS	A193	TYPE 304	
STAINLESS STEEL WASHERS	A240	Gr. 8, TYPE 304	
STAINLESS STEEL NUTS	A194	Gr. 8	
END CAPS	B26		356-F
ALUMINUM WASHERS	B209	2024-T3/T4	ALCLAD
ELECTRODES FOR WELDING		AWS A5.10	ER5356

POSTS TO BE TRULY VERTICAL 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

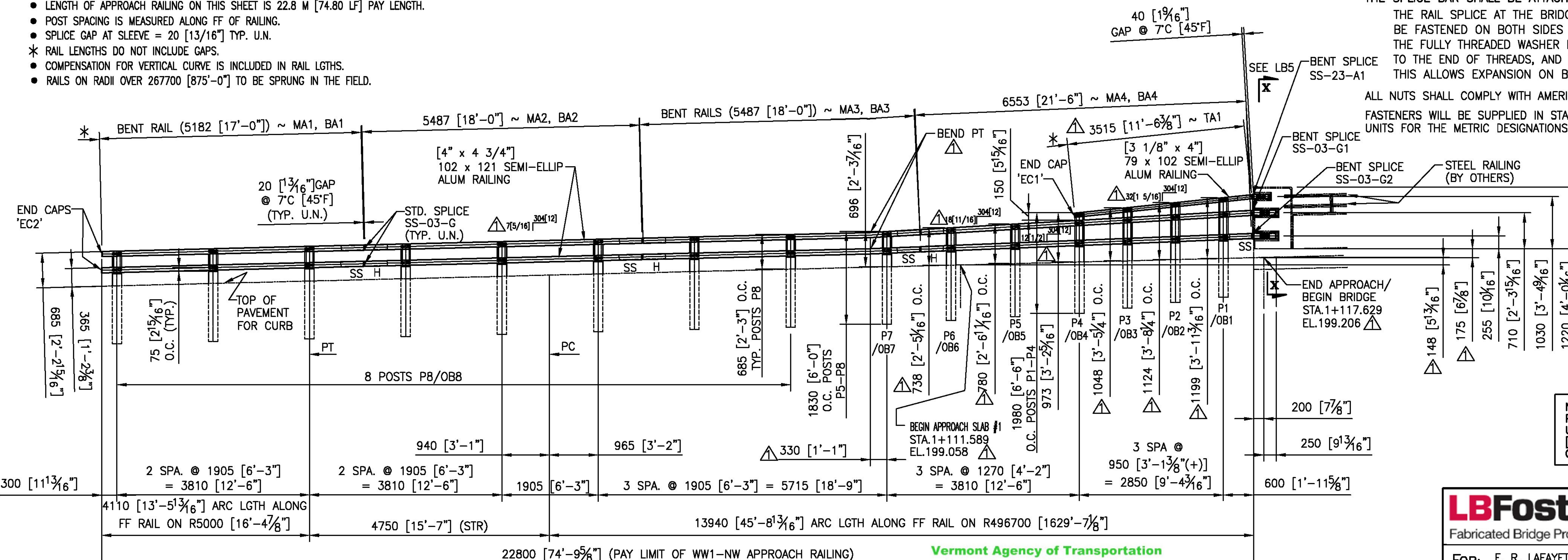
THE RAIL SPLICE AT THE BRIDGE EXPANSION JOINT SHALL BE FASTENED ON BOTH SIDES OF THE RAIL SPLICE USING THE FULLY THREADED WASHER FACED BOLTS, TIGHTENED SECURELY TO THE END OF THREADS, AND LEAVING A 3mm [1/8"] GAP, THIS ALLOWS EXPANSION ON BOTH SIDES OF THE JOINT.

ALL NUTS SHALL COMPLY WITH AMERICAN HEXAGON ANSI SPECIFICATIONS B18.2 FASTENERS WILL BE SUPPLIED IN STANDARD US EQUIVALENT UNITS FOR THE METRIC DESIGNATIONS.

### NOTE:

- THIS CONTRACT IS BASED UPON THE CONTRACTOR SETTING AND SPACING THE ANCHOR BOLTS TO THE MEASUREMENTS SHOWN ON THE APPROVED SHOP DRAWINGS. THE L.B. FOSTER CO. WILL NOT BE RESPONSIBLE FOR WORK NECESSITATED BY ANY OTHER SETTING AND SPACING.
- THIS DRAWING IS NOT TO SCALE.
- LENGTH OF APPROACH RAILING ON THIS SHEET IS 22.8 M [74.80 LF] PAY LENGTH.
- POST SPACING IS MEASURED ALONG FF OF RAILING.
- SPLICE GAP AT SLEEVE = 20 [13/16"] TYP. U.N.
- \* RAIL LENGTHS DO NOT INCLUDE GAPS.
- COMPENSATION FOR VERTICAL CURVE IS INCLUDED IN RAIL LGTHS.
- RAILS ON RADII OVER 267700 [875'-0"] TO BE SPRUNG IN THE FIELD.

### PLAN VIEW ~ CURBSIDE



### INSIDE ELEVATION OF WW1-NW APPROACH RAIL

NOTE:  
 PRIMARY DIMENSIONS ARE METRIC UNITS IN MM. DIMENSIONS SHOWN [ ] THUS ARE THE ENGLISH CONVERSION.

Vermont Agency of Transportation  
**RECEIVED**

CK'D BY GFR OK'D BY \_\_\_\_\_

03/29/2012

RESUBMIT \_\_\_\_\_ APPROVED X \_\_\_\_\_  
 BY C. CARLSON DATE 03/30/2012

REV.	DESCRIPTION	BY	DATE
△	REVISED PER APPROVER MARKUPS	CMS	03/21/12
MADE	CMS	DATE	02/03/12
CHECKED	Dd	DATE	02/13/12
JOB NO.	ARO720	DRAWING	LB1
REV. NO.	ONE		

**LB Foster**  
 Fabricated Bridge Products  
**L.B. FOSTER COMPANY**  
 1016 GREENTREE RD.  
 PITTSBURGH, PA 15220

FOR: F. R. LAFAYETTE, INCORPORATED  
 VERMONT AGENCY OF TRANSPORTATION  
 COUNTY OF WINDHAM - TOWN OF NEWFANE - PROJ. #BRF 0106(3)S  
 3L ALUM APPROACH RAILING - RTE: TH2 CLASS 2 (MAJOR COLLECTOR)  
 BRIDGE 14 OVER MARLBORO BRANCH - ELEVATION ~ WW1-NW RAILING

ITEM #621.745