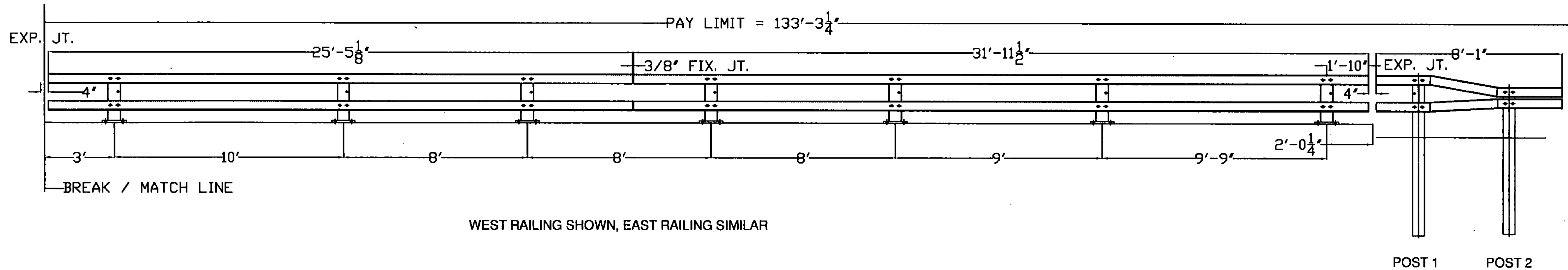


NOTE: ALL RAIL TO BE DRILLED PRIOR TO GALVANIZING. Ø 3/4" TYP.

* PER NOTE ON SHEET 40, EXP. SPLICE ADDED TO CENTER OF BRIDGE (100' MAX EXPANSION SPLICE SPACING)
NOTE: POST SPACING VARIES



WEST RAILING SHOWN, EAST RAILING SIMILAR

BILL OF MATERIALS			
LINE #	QTY	DESCRIPTION	ASTM DESIGNATION
1	28	TWO RAIL POST W8x24	A709 Gr.36 CVN
2	4	W6X25 POST @ 7' 0"	A709 Gr.36 CVN
3	4	W6X25 POST @ 6' 5"	A709 Gr.36 CVN
4	4	5x5x5/16" TOP RAIL @ 8' 1" W/ BENDS	A500 GRADE B DROP WT TEAR TESTED
5	4	5x5x5/16" BOTTOM RAIL @ 8' 1" W/ BENDS	A500 GRADE B DROP WT TEAR TESTED
6	8	5x5x5/16" RAIL @ 31' 11 1/2"	A500 GRADE B DROP WT TEAR TESTED
7	8	5x5x5/16" RAIL @ 33' 5 1/8"	A500 GRADE B DROP WT TEAR TESTED
8	12	4 1/4 x 4 1/4" EXP. SPLICE BAR @ 2' 4"	A36
9	8	4 1/4 x 4 1/4" FIX. SPLICE BAR @ 2' 4"	A36
10	112	Ø7/8"x20" ANCHOR STUD -SPECIAL-	A449
11	112	Ø7/8" FLAT WASHER, LOCK WASHERS & (2) NUTS	F436 TYPE 1, ASME B18.21.1, & A563 DH
12	144	Ø5/8 x 7" ROUND HEAD BOLT, NUT, SQ. W. & L.W.	A449, A563, & ASME B18.21.1
13	8	5"x5"x3/16" PRESS FIT, END CAPS	A36
14	12	Ø5/8"x1 1/2" HEX BOLT, F.W., L.W., & NUT	A325, F436 TYPE 1, ASME B18.21.1, & A563 DH
15	12	DELINEATOR / REFLECTOR (SEE NOTE 10)	ALUM.
16	80	7/8"x6 1/2" BOLT W/ F.W., L.W., & NUT	A325, F436 TYPE 1, ASME B18.21.1, & A563 DH
17	28	1/8" x 12" x 12" FIBER PAD	

- NOTES:
- ALL WORK AND MATERIALS SHALL CONFORM TO SECTION 525.
 - RAILING MATERIAL SHALL MEET THE REQUIREMENTS OF SECTION 732.
 - ALL EXPOSED CUT OR SHEARED EDGES SHALL BE ROUNDED TO A 1/16" RADIUS AND BE FREE OF BURRS.
 - RAIL POST SHALL BE SET NORMAL TO GRADE.
 - SECTIONS OF RAIL TUBE SHALL BE ATTACHED TO A MINIMUM OF TWO BRIDGE RAIL POST AND PREFERABLY TO AT LEAST FOUR POST.
 - RAIL POST ANCHORING NUTS SHALL BE TIGHTENED TO A SNUG FIT AND GIVEN AN ADDITIONAL ONE-EIGHTH TURN.
 - RAIL TUBES SHALL BE ATTACHED USING A 449 (TYPE 1) ROUND HEAD BOLTS INSERTED THROUGH THE FACE OF THE TUBE.
 - THE FABRICATOR SHALL SUBMIT FABRICATION DRAWINGS INCLUDING WELDING PROCEDURES IN ACCORDANCE WITH SECTION 105.
 - 1/8" PAD SHALL COMPLY WITH STANDARD SPECIFICATION SUBSECTION 731.01
 - THE REFLECTIVE MATERIAL IS TO BE ERRECTED EVERY 30' (OR CLOSEST POST) WITH A 5/8" DIAMETER BOLT AND SHALL MEET REQUIREMENTS OF SUBSECTION 750.08 AND SHALL BE A .063 ALUMINUM BACKING WHITE REFLECTOR.

Vermont Agency of Transportation

RECEIVED

CK'D BY Timothy Fillbach OK'D BY GML

12:17 pm, Jul 21, 2010

RESUBMIT APPROVED BY KMH DATE 07-21-2010

ITEM #: 900.640

GEN CONTR: F. R. LAFAYETTE

SHEET 1 OF 3

APPROVED BY:

BRIDGE RAIL DETAILS SHEET
BRIDGEWATER, PROJECT #: BRS 0149 (4)
VT ROUTE 100A, BR14-MAJOR COLLECTOR
TOWN OF BRIDGEWATER, WINDSOR COUNTY, STATE OF VERMONT

R NO.	DATE	DESCRIPTION	BY	R NO.	DATE	DESCRIPTION	BY
E A	7/16/10	REVISED PER 7/14/10 MEMO FROM DESIGN M. BRISQ, P.L.	EP	E			
V				V			

ELDERLEE, INC.
OAKS CORNERS, NEW YORK 14518
E-Mail: dlong@elderlee.com
Tel: 315-789-6670 Fax: 315-789-6616

DRAWN	E.P.	6/14/10
CHECKED	D.L.	6/16/10
APPROVED		
SCALE	SCHEMATIC	
DRAWING NO.	EM10-066	