



**GUARD RAIL TO BRIDGE RAIL TRANSITION
TYPICAL (4) CORNERS**

BILL OF MATERIALS, EACH OF (3) CORNERS

ITEM #	QTY.	COMPONENT #	DESCRIPTION	MATERIAL (ASTM)
1	3	0013.01542	3' I-UNIV POST W/SPD @63" LG	A36
2	3	0013.02712	3' I-POST, PUNCH 8", 20", & 22" W/SPD @63" LG	A36
3	2	0013.02713	3' I-END POST W/SPD @ 3'11" LG	A36
4	4	0013.23920	W6X9 (8.5) POST @ 7' W/SPD & 5/8" HOLE	A36
5	4	0013.57010	3' I-POST, PUNCH 8" & 20", W/8X32" SPADE @7'	A36
6	1	0033.80403	3X5" BTM TRANS RAIL W/4'11" KB, EXP END	A500 Gr. B
7	1	0033.00640	5X5 TUBE SPLICE @27" LG W/ 1/4" SHIMS	A500 Gr. B / A572 Gr 50
8	2	0033.00730	5x5 EXP TUBE SPLICE @ 36" LG W/ 1/4" SHIMS	A500 Gr. B / A572 Gr 50
9	1	0033.00930	BR EXP BAR SPLICE 2-1/8" X 4-1/4" @ 36" LG	A36
10	18	0054.00050	REG BB SHELF ANGLES @ 4-1/2"	A36
11	1	0054.00052	DWY BB SHELF ANGLES @ 4-1/2"	A36
12	1	0054.00074	5X5 DBL BEND TUBE SPL @ 27" LG	A500 Gr. B / A572 Gr 50
13	8	0054.00583	6X8" TUBE B/D W/5/8" SLOT	A500 Gr. B
14	3	0054.00585	6X8" TRANS TUBE B/D @ 3" LG	A500 Gr. B
15	1	0054.09000	6X6" BB @ 9'-0" KICKBACK, W/ CAP	A500 Gr. B / A36
16	0.5	0054.18000	6X6" BB @ 17'-11 1/2", DRILL 3" CC	A500 Gr. B
17	1	0054.90092	6X6" BB TOP TRANS @ 20'-11 1/2" LG W/EXP END	A500 Gr. B
18	1	0054.90093	6X6" BB BTM TRANS @ 21'-6 1/2" LG W/EXP END	A500 Gr. B
19	18	0080.03355	3/8" X 7 1/2" BOLT, NUT, & 2 FW	A307
20	19	0080.04100	1/2" x 1-1/2" BOLT, NUT, & FW	A307
21	16	0080.04120	1/2" x 1-1/2" BOLT, NUT, 2 FW & LW	A307
23	12	0080.06340	3/4" X 7-1/2" BOLT, NUT, 2 FW	A325
24	6	0080.06370	3/4" X 8" CARR BOLT, NUT, FW & LW	A307
25	2	0080.06400	3/4" X 8" BOLT, NUT, 2 FW, & LW	A325

NOTE: BILL OF MATERIALS FOR FORTH CORNER (SOUTH EAST - WW2) IS SAME AS OTHERS EXCEPT 550' RADIUS STARTS 6'-8" FROM BEGINNING OF TRANSITION PAY LIMIT.

HARDWARE NOTES

ITEM #	FUNCTION
19	BOLT RAIL TO SHELF ANGLE (ITEM #10)
20	BOLT SHELF ANGLE (ITEM #'S 10 & 11) TO POST
21	BOLT BLOCK-OUTS (ITEM #13) TO HEAVY POST
23	(4) PER SPLICE TUBING (ITEM #'S 7 & 8)
24	BOLT RAIL (ITEMS #'S 6,17, & 18 TO BLOCK-OUTS (ITEM #13) [WHERE FASTENED]
25	BOLT DOUBLE BEND SPLICE TUBE (ITEM #12) TO RAIL (ITEM #18) & KICKBACK (ITEM #15) & ITEM #11)

Vermont Agency of Transportation
RECEIVED
CK'D BY M. LONGSTREET OK'D BY MCL
January 29, 2013
RESUBMIT NO. Approved
BY J. LACROIX DATE 01-30-2013

ITEM #: 900.620 GEN CONTR: F.R. Lafayette - Warren SHEET 1 OF 3

APPROVED BY: *Calvanized 2-Rail Box Beam Guardrail Approach Section*
WARREN BR 013-4 (14) VERMONT ROUTE 100 (MINOR ARTERIAL) - BR NO. 173
TOWN OF WARREN, WASHINGTON COUNTY, VT

R NO.	DATE	DESCRIPTION	BY	R NO.	DATE	DESCRIPTION	BY
E 1	1/28/13	REVISED PER 12/12/12 MARK-UP	E.P.	E 1			

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DRAWN	D.L.	12/05/12
CHECKED	E.P.	12/05/12
APPROVED	M.V.	
SCALE	SCHEMATIC	
DRAWING NO. FR Lafayette - WARREN-A		