



BILL OF MATERIAL			
QTY	PART #	DESCRIPTION	ASTM DESIGNATION
15	0033.90361	W6X25 POST # 1 - #8 @ 8'-8" (VARIOUS PUNCHING)	A572 Gr. 50
2	0033.91166	4" X 4" X 1/4" RAIL @ 24'9" W/WELDED END CAP	A500 Gr. B
2	0033.91167	4" X 4" X 1/4" RAIL @ 24'9" W/WELDED END CAP W/7'-3" RADIUS	A500 Gr. B
1	0033.90068	4" X 4" X 1/4" RAIL @ 21'6"-3/8" W/KICKBACK & WELDED END CAP	A500 Gr. B
1	0033.90069	4" X 4" X 1/4" RAIL @ 21'6"-3/8" W/KICKBACK & WELDED END CAP W/PARTIAL 7'-3" RADIUS	A500 Gr. B
1	0033.91170	4" X 8" X 5/16" RAIL @ 24'-9" W/WELDED END CAP	A500 Gr. B
1	0033.91171	4" X 8" X 5/16" RAIL @ 24'-9" W/WELDED END CAP W/PARTIAL 7'-3" RADIUS	A500 Gr. B
4	0033.91352	3" X 3" X 5/16" EXP. SPL. TUBE @ 1'11"-3/4"	A500 Gr. B
2	0033.90362	3" X 3" X 5/16" EXP. SPL. TUBE @ 1'11"-3/4" W/2" BEND	A500 Gr. D
2	0033.90353	3" X 7" X 3/8" EXP. SPL. TUBE @ 1'11"-3/4"	A500 Gr. D
2	0033.90363	3/8" CONNECTION PLATE @ 2'-9" X 2'-3"	A36
6	0033.90057	PRESS FIT END CAP FOR 4"X4"X1/4" RAIL	A36
2	0033.90056	PRESS FIT END CAP FOR 8"X4"X5/16" RAIL	A36
2	5029.90056	SPECIAL THRIE BEAM TERMINAL CONNECTOR (10 GA)	AASHTO M180
2		6'-3" TRANSITION THRIE TO PANEL W/3'1-1/2" CC (12 GA)	AASHTO M180
2		6'-3" TRANSITION THRIE TO PANEL W/3'1-1/2" CC (12 GA) W/20" RAD. (FIELD BENT)	AASHTO M180
10	0080.15913	3/16" SPECIAL WASHER @ 1-3/4" X 3"	A36
10	0080.15703	5/8" X 1'-6" POST BOLT	A307
10	0080.15901	5/8" HEX NUT	A307
10	0080.15911	5/8" FLAT WASHER	A307
32	0080.05045	5/8" X 1 3/4" HEX BOLT & F.W.	A307
40	0080.15013	5/8" X 1 1/4" SPLICE BOLT	A307
40	0080.15903	5/8" RECESSED NUT	A307
128	0080.06290	3/4" X 6" BUTTON HEAD BOLT W/SLOTTED HEAD	A449
128	0080.16911	3/4" FLAT WASHER	F436
128	0080.16901	3/4" DII HEAVY ANCO LOCK NUT	A563
64	0080.05045	5/8" X 1 3/4" HEX BOLT & F.W.	A307
32	0033.90053	3/4" SCHD. 40 PIPE SPACER @ 1/2"	A53
6	0009.00070	6"X8" WOOD POST @ 7'-0"	
6		6"X8" WOOD OFFSET @ 1'10"-1/2"	

- NOTES
1. ALL DIMENSIONS SHALL BE MEASURED ALONG THE FACE OF RAIL.
 2. PAYMENT FOR GUARDRAIL APPROACH SECTION, GALVANIZED 4 RAIL BOX BEAM (COATED BLACK) SHALL INCLUDE THE TERMINAL CONNECTOR, THE CONNECTION PLATE, RAIL, POSTS, BLOCKS AND ATTACHMENT HARDWARE.
 3. ALL APPROACH RAIL SPLICES SHALL BE LAPPED IN THE DIRECTION OF TRAFFIC FLOW.
 4. ALL BRIDGE APPROACH RAIL MATERIALS, DIMENSION SIZES AND NOTES SHALL BE THE SAME AS THOSE OF THE BRIDGE RAIL, UNLESS OTHERWISE NOTED.
 5. CARRIAGE BOLTS SHALL BE AASHTO M164 (ASTM A) AND NUTS SHALL BE ASTM A563 GRADE A OR BETTER (GALVANIZED).
 6. WELD SPLICE BARS TO FIT BEND. USE COMPLETE PENETRATION WELD. (SEE WPS)
 7. FROM THE END SPLICE AT THE LIMITS OF BRIDGE RAIL TO POST #6, THE RAILS SHALL BE SHOP BENT TO A RADIUS OF 7.25'.
 8. THE 6'-3" TRANSITION SECTION SHALL BE FIELD BENT TO A RADIUS OF 20'.
 9. ALL STEEL BRIDGE RAILING, ORNAMENTAL FENCE, AND APPROACH GUARDRAIL COMPONENTS SHALL BE POWDER COATED BLACK AFTER GALVANIZING IN ACCORDANCE WITH ASTM D7803. COLOR SHALL MATCH EXISTING WROUGHT IRON FENCE ADJACENT TO THE BRIDGE ALONG RED MILL DRIVE.

POWDER COATED BLACK AFTER GALV. PER ASTM D7803

Vtrans Received OK'd BY JWC
 CK'D
 AUG 06 2014
 Resubmit BY APPROVED DATE 8/14/14

ITEM #: 621.73 GEN CONTR: F.R. LAFAYETTE, P.O. 29045 SHEET 1 OF 3

APPROVED BY: _____

BRIDGE RAIL DETAILS SHEET
 PROJECT: TOWN OF JERICO COUNTY OF CHITTENDEN VT. 15 (MINOR ARTERIAL) PEDESTRIAN BRIDGE JERICO FTBR (3)

R NO.	DATE	DESCRIPTION	BY	R NO.	DATE	DESCRIPTION	BY

ELDERLEE, INC.
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DRAWN D.I. 7/23/2014
 CHECKED E.P. 7/23/2014
 APPROVED
 SCALE SCHEMATIC
 DRAWING NO. F.R.I. JERICO 20045 GRAS