

Vermont Agency of Transportation
RECEIVED
 ON: February 28, 2014
 and Checked for
CONFORMANCE
 BY: Rob Young DATE: 03/07/2014

T.Y. LIN INTERNATIONAL
 THE STAMPED DOCUMENTS ARE HEREBY:
 -x- APPROVED
 _____ APPROVED AS NOTED
 _____ REVISE AND RESUBMIT

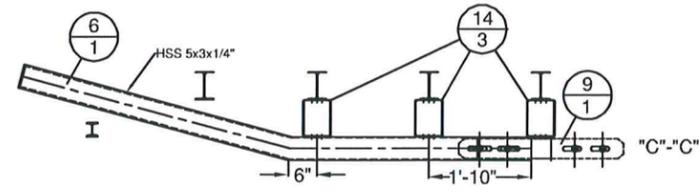
SEE TRANSMITTAL FOR ADDITIONAL INFORMATION AS APPLICABLE.

THIS REVIEW IS FOR GENERAL CONFORMANCE WITH DESIGN CONCEPT ONLY. ANY DEVIATION FROM THE PLANS OR SPECIFICATIONS NOT CLEARLY NOTED BY THE CONTRACTOR HAS NOT BEEN REVIEWED. REVIEW BY THE ENGINEER SHALL NOT RELIEVE THE CONTRACTOR OF THE CONTRACTUAL RESPONSIBILITY FOR ANY ERRORS OR DEVIATION FROM THE CONTRACT REQUIREMENTS.

JOSH OLUND REVIEWER DATE 02/28/2014

ITEM #	HARDWARE NOTES	FUNCTION
19	BOLT RAIL TO SHELF ANGLE (ITEM #10)	
20	BOLT SHELF ANGLE (ITEM #'S 10 & 11) TO POST	
21	BOLT BLOCK-OUTS (ITEM #'S 13 & 14) TO HEAVY POST	
22	(4) PER SPLICE BAR (ITEM #9)	
23	(4) PER SPLICE TUBING (ITEM #'S 7 & 8)	
24	BOLT RAIL (ITEMS #'S 6,17, & 18 TO BLOCK-OUTS (ITEM #'S 13 & 14) [WHERE FASTENED])	
25	BOLT DOUBLE BEND SPLICE TUBE (ITEM #12) TO RAIL (ITEM #18) & KICKBACK (ITEM #15)	

ITEM #	QTY.	COMPONENT #	DESCRIPTION	MATERIAL CATHD
1	3	0013.57021	3" I-POST, PUNCH 8" W/SPD @ 63" LG	ASTM A572 Gr. 50
2	3	0013.57025	3" I-POST, PUNCH 8", @ 20" W/SPD @ 63" LG	ASTM A572 Gr. 50
3	2	0013.57060	3" I-END POST W/SPD @ 3'-8" LG	ASTM A572 Gr. 50
4	4	0013.09001	W6x9 POST @ 7" W/SPD @ 5/8" HOLES	ASTM A572 Gr. 50
5	4	0013.57010	3" I-POST, PUNCH 8" @ 20", W/8X32" SPADE #7"	ASTM A572 Gr. 50
6	1	0033.80403	3X5" BTM TRANS RAIL W/5'-0" KB, EXP END	A500 Gr. B
7	1	0033.00640	HSS 5X5 TUBE SPLICE @ 27" LG W/ 1/4" SHIMS	A500 Gr. B / A572 Gr. 50
8	2	0033.00730	HSS 5X5 EXP TUBE SPLICE @ 36" LG W/ 1/4" SHIMS	A500 Gr. B / A572 Gr. 50
9	1	0033.00930	8" EXP BAR SPLICE 2'-10" X 4'-1/4" @ 36" LG	ASTM A36
10	19	0034.00030	REG BB SHELF ANGLES @ 4'-1/2"	ASTM A36
12	1		HSS 5X5 DBL BEND TUBE SPL @ 27" LG & 40" ANGLE	A500 Gr. B / A572 Gr. 50
13	8	0054.00563	6X8" TRANS. TUBE B/D @ 6" LG	A500 Gr. B
14	3	0054.00565	6X8" TRANS. TUBE B/D @ 3" LG	A500 Gr. B
15	1		6X6" BB @ 9'-0" KICKBACK, W/ CAP & 20" ANGLE	A500 Gr. B / A36
16	1		6X6" BB @ 17'-11 1/2", DRILL 3" CC, W/ 20" RADIUS & END ASS'Y	A500 Gr. B
17	1		6X6" BB TOP TRANS @ 28'-9 5/8" LG W/EXP END, & PARTIAL RAD.	A500 Gr. B
18	1		6X6" BB BTM TRANS @ 21'-4 5/8" LG W/EXP END & PARTIAL RAD.	A500 Gr. B
19	18	0080.03333	3/8" X 7 1/2" BOLT, NUT, & 2 FV	A307, A563, F436
20	19	0080.04100	1/2" x 1-1/2" BOLT, NUT, & FV	A307, A563, F436
21	22	0080.04120	1/2" x 1-1/2" BOLT, NUT, 2 FV & LW	A307, A563, F436
22	4	0080.06255	3/4" X 4-1/2" BOLT, NUT, 2 FV	A325, A563, F436
23	12	0080.06340	3/4" X 7-1/2" BOLT, NUT, 2 FV	A325, A563, F436
24	6	0080.06370	3/4" X 8" CARR BOLT, NUT, FV & LW	A307, A563, F436
25	2	0080.06400	3/4" X 8" BOLT, NUT, 2 FV, & LW	A325, A563, F436



ITEM #: 621.725
 APPROVED BY:

F.R. LAFAYETTE, CAVENDISH

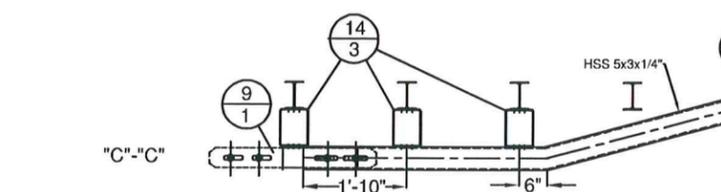
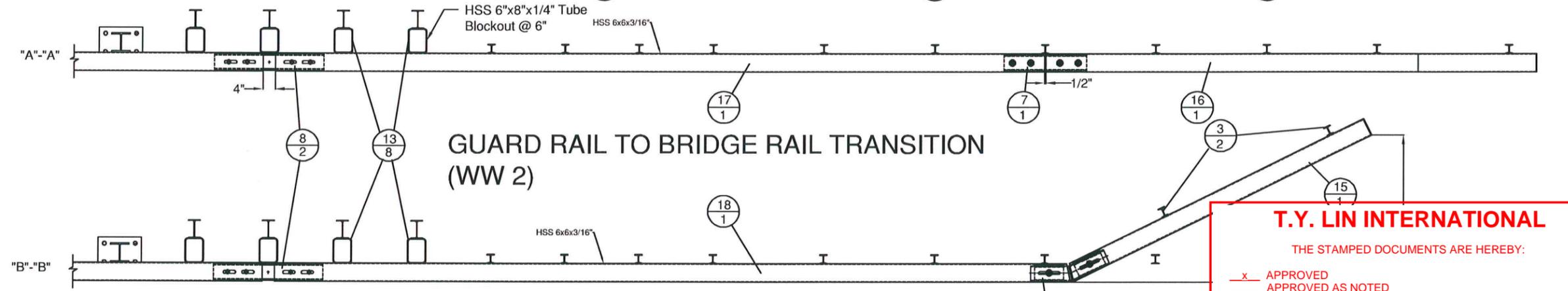
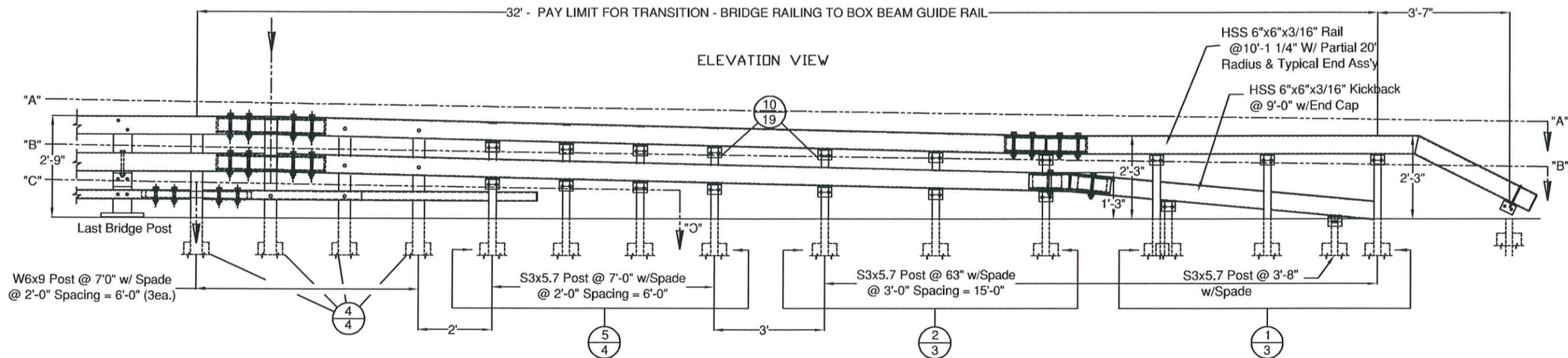
SHEET 1 OF 10

GUARD RAIL TO BRIDGE RAIL TRANSITION DETAILS SHEET
 CAVENDISH, ER BR# 0416 (13), ROUTE VT 131, OVER TWENTY MILE STREAM
 VERMONT

R NO.	DATE	DESCRIPTION	BY	R NO.	DATE	DESCRIPTION	BY
E 1	2/17/14	REVISED PER 12/20/13 MARK-UP	EP	E			
V			V				

DRAWN	E.P.	11/13/13
CHECKED	D.L.	11/20/13
APPROVED		
SCALE	SCHEMATIC	
DRAWING NO. F.R. LAFAYETTE, CAVENDISH		

ELDERLEE, INC.
 OAKS CORNERS, NEW YORK 14518
 E-Mail: dlong@elderlee.com
 Tel: 315-789-8670 Fax: 315-789-8615



Vermont Agency of Transportation
RECEIVED
 ON: February 28, 2014
 and Checked for
CONFORMANCE
 BY: Rob Young DATE: 03/07/2014

ITEM #	HARDWARE NOTES	FUNCTION
19	BOLT RAIL TO SHELF ANGLE (ITEM #10)	
20	BOLT SHELF ANGLE (ITEM #'S 10 & 11) TO POST	
21	BOLT BLOCK-OUTS (ITEM #'S 13 & 14) TO HEAVY POST	
22	(4) PER SPLICE BAR (ITEM #9)	
23	(4) PER SPLICE TUBING (ITEM #'S 7 & 8)	
24	BOLT RAIL (ITEMS #'S 6, 17, & 18 TO BLOCK-OUTS (ITEM #'S 13 & 14) [WHERE FASTENED])	
25	BOLT DOUBLE BEND SPLICE TUBE (ITEM #12) TO RAIL (ITEM #18) & KICKBACK (ITEM #15)	

ITEM #	QTY.	COMPONENT #	DESCRIPTION	MATERIAL (ASTM)
1	3	0013.57021	3" I-POST, PUNCH 8" W/SPD @ 63" LG	ASTM A572 Gr. 50
2	3	0013.57025	3" I-POST, PUNCH 8", @ 20" W/SPD @ 63" LG	ASTM A572 Gr. 50
3	2	0013.57060	3" I-END POST W/SPD @ 3'-8" LG	ASTM A572 Gr. 50
4	4	0013.09001	W6X9 POST @ 7' W/SPD @ 5/8" HOLES	ASTM A572 Gr. 50
5	4	0013.57010	3" I-POST, PUNCH 8" @ 20", W/8X32" SPADE #7"	ASTM A572 Gr. 50
6	1	0033.00403	3X5" BYM TRANS RAIL W/5'-0" KB, EXP END	A500 Gr. B
7	1	0033.00640	HSS 5X5 TUBE SPLICE @27" LG W/ 1/4" SHIMS	A500 Gr. B / A572 Gr 50
8	2	0033.00730	HSS 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	ASTM A36
10	19	0054.00050	HSS 5X5 DIB. BEND TUBE SPL @ 27" LG @ 45° ANGLE	A500 Gr. B / A572 Gr 50
12	1	0054.00563	6X6" TRANS. TUBE B/O @ 3" LG	A500 Gr. B
13	8	0054.00563	6X8" TRANS. TUBE B/O @ 3" LG	A500 Gr. B
14	3	0054.00565	6X8" TRANS. TUBE B/O @ 3" LG	A500 Gr. B
15	1		6X6" BB @ 9'-0" KICKBACK, W/ CAP & 22° ANGLE	A500 Gr. B / A36
16	1		6X6" BB @ 17'-11 1/2", DRILL 3" CC, W/ 15" RADIUS & END ASS'Y	A500 Gr. B
17	1		6X6" BB TOP TRANS @ 20'-9 5/8" LG W/EXP END, & PARTIAL RAD.	A500 Gr. B
18	1		6X6" BB BYM TRANS @ 21'-4 5/8" LG W/EXP END & PARTIAL RAD.	A500 Gr. B
19	18	0080.03355	3/8" X 7 1/2" BOLT, NUT, & 2 FV	A307, A563, F436
20	19	0080.04100	1/2" X 1-1/2" BOLT, NUT, & FV	A307, A563, F436
21	22	0080.04120	1/2" X 1-1/2" BOLT, NUT, 2 FV & LV	A307, A563, F436
22	4	0080.05255	3/4" X 4-1/2" BOLT, NUT, 2 FV	A325, A563, F436
23	12	0080.06340	3/4" X 7-1/2" BOLT, NUT, 2 FV	A325, A563, F436
24	6	0080.06370	3/4" X 8" CARR BOLT, NUT, FV & LV	A307, A563, F436
25	2	0080.06400	3/4" X 8" BOLT, NUT, 2 FV, & LV	A325, A563, F436

T.Y. LIN INTERNATIONAL
 THE STAMPED DOCUMENTS ARE HEREBY:
 -x- APPROVED
 _____ APPROVED AS NOTED
 _____ REVISE AND RESUBMIT
 SEE TRANSMITTAL FOR ADDITIONAL INFORMATION AS APPLICABLE.
 THIS REVIEW IS FOR GENERAL CONFORMANCE WITH DESIGN CONCEPT ONLY. ANY DEVIATION FROM THE PLANS OR SPECIFICATIONS NOT CLEARLY NOTED BY THE CONTRACTOR HAS NOT BEEN REVIEWED. REVIEW BY THE ENGINEER SHALL NOT RELIEVE THE CONTRACTOR OF THE CONTRACTUAL RESPONSIBILITY FOR ANY ERRORS OR DEVIATION FROM THE CONTRACT REQUIREMENTS.
 JOSH OLUND 02/28/2014
 REVIEWER DATE
 F.R. LAFAYETTE, CAVENDISH SHEET 2 OF 10

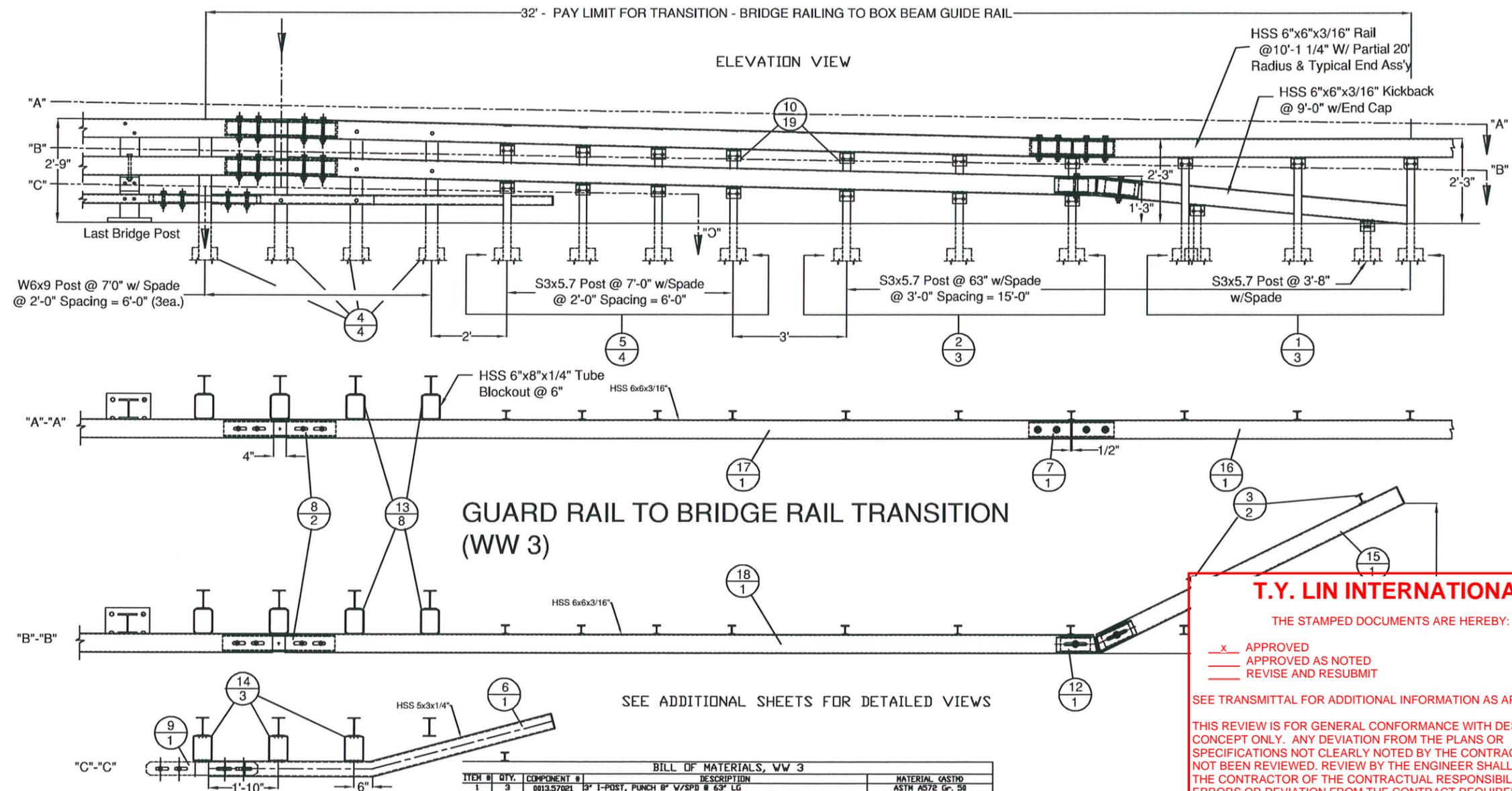
ITEM #: 621.725
 APPROVED BY:

GUARD RAIL TO BRIDGE RAIL TRANSITION DETAILS SHEET
 CAVENDISH, ER BR# 0416 (13), ROUTE VT 131, OVER TWENTY MILE STREAM
 VERMONT

R NO.	DATE	DESCRIPTION	BY	R NO.	DATE	DESCRIPTION	BY
E 1	2/17/14	REVISED PER 12/20/13 MARK-UP	EP	E			
V			V				

DRAWN	E.P.	11/13/13
CHECKED	D.L.	11/20/13
APPROVED		
SCALE	SCHEMATIC	

ELDERLEE, INC.
 OAKS CORNERS, NEW YORK 14518
 E-Mail: dlong@elderlee.com
 Tel: 315-789-8670 Fax: 315-789-8615
 DRAWING NO. F.R. LAFAYETTE, CAVENDISH



GUARD RAIL TO BRIDGE RAIL TRANSITION (WW 3)

SEE ADDITIONAL SHEETS FOR DETAILED VIEWS

ITEM #	QTY.	COMPONENT #	DESCRIPTION	MATERIAL	QSTPD
1	3	0013.57021	3" I-POST, PUNCH @ 7/8" W/SPD @ 63" LG	ASTM A572 Gr. 50	
2	3	0013.57025	3" I-POST, PUNCH @ 2" W/SPD @ 63" LG	ASTM A572 Gr. 50	
3	2	0013.57060	3" I-END POST W/SPD @ 3'-8" LG	ASTM A572 Gr. 50	
4	4	0013.09001	W6X9 POST @ 7" W/SPD @ 5/8" HOLES	ASTM A572 Gr. 50	
5	4	0013.57010	3" I-POST, PUNCH @ 2" W/SPD @ 5/8" HOLES	ASTM A572 Gr. 50	
6	1	0033.80403	3X5" BTM TRANS RAIL W/5'-0" KB, EXP END	A500 Gr. B	
7	1	0033.00640	HSS 5X5 TUBE SPLICE @ 27" LG W/ 1/4" SHIMS	A500 Gr. B / A572 Gr. 50	
8	2	0033.00730	HSS 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	ASTM A36	
10	19	0054.00050	REG BB SHELF ANGLES @ 4'-1/2"	ASTM A36	
11	1	0054.00074	HSS 5X5 DBL BEND TUBE SPL @ 27" LG	A500 Gr. B / A572 Gr. 50	
12	1	0054.00563	6X8" TRANS. TUBE 1/0 @ 6" LG	A500 Gr. B	
13	3	0054.00565	6X8" TRANS. TUBE 1/0 @ 3" LG	A500 Gr. B	
14	1	0054.09000	6X6" BB @ 9'-0" KICKBACK, W/ CAP	A500 Gr. B / A36	
15	0.5	0054.18000	6X6" BB @ 17'-11 1/2", DRILL 3" CC.	A500 Gr. B	
16	1	0054.90092	6X6" BB TOP TRANS @ 20'-9 5/8" LG W/EXP END	A500 Gr. B	
17	1	0054.90093	6X6" BB BTM TRANS @ 21'-4 5/8" LG W/EXP END	A500 Gr. B	
18	18	0080.03355	3/8" X 7 1/2" BOLT, NUT, & 2 FV	A307, A563, F436	
19	19	0080.04100	1/2" x 1-1/2" BOLT, NUT, & FV	A307, A563, F436	
20	22	0080.04120	1/2" x 1-1/2" BOLT, NUT, 2 FV & LV	A307, A563, F436	
21	4	0080.06255	3/4" X 4-1/2" BOLT, NUT, 2 FV	A325, A563, F436	
22	12	0080.06340	3/4" X 7-1/2" BOLT, NUT, 2 FV	A325, A563, F436	
23	6	0080.06370	3/4" X 8" CARR BOLT, NUT, FV & LV	A307, A563, F436	
24	2	0080.06400	3/4" X 8" BOLT, NUT, 2 FV, & LV	A325, A563, F436	

ITEM #	HARDWARE NOTES	FUNCTION
19	BOLT RAIL TO SHELF ANGLE (ITEM #10)	
20	BOLT SHELF ANGLE (ITEM #'S 10 & 11) TO POST	
21	BOLT BLOCK-OUTS (ITEM #'S 13 & 14) TO HEAVY POST	
22	(4) PER SPLICE BAR (ITEM #9)	
23	(4) PER SPLICE TUBING (ITEM #'S 7 & 8)	
24	BOLT RAIL (ITEMS #'S 6, 17, & 18) TO BLOCK-OUTS (ITEM #'S 13 & 14) [WHERE FASTENED]	
25	BOLT DOUBLE BEND SPLICE TUBE (ITEM #12) TO RAIL (ITEM #18) & KICKBACK (ITEM #15)	

T.Y. LIN INTERNATIONAL

THE STAMPED DOCUMENTS ARE HEREBY:

APPROVED
 APPROVED AS NOTED
 REVISE AND RESUBMIT

SEE TRANSMITTAL FOR ADDITIONAL INFORMATION AS APPLICABLE.

THIS REVIEW IS FOR GENERAL CONFORMANCE WITH DESIGN CONCEPT ONLY. ANY DEVIATION FROM THE PLANS OR SPECIFICATIONS NOT CLEARLY NOTED BY THE CONTRACTOR HAS NOT BEEN REVIEWED. REVIEW BY THE ENGINEER SHALL NOT RELIEVE THE CONTRACTOR OF THE CONTRACTUAL RESPONSIBILITY FOR ANY ERRORS OR DEVIATION FROM THE CONTRACT REQUIREMENTS.

JOSH OLUND 02/28/2014
 REVIEWER DATE

Vermont Agency of Transportation
RECEIVED
 ON: February 28, 2014
 and Checked for
CONFORMANCE
 BY: Rob Young DATE: 03/07/2014

ITEM #: 621.725
 APPROVED BY:

F.R. LAFAYETTE, CAVENDISH VERMONT

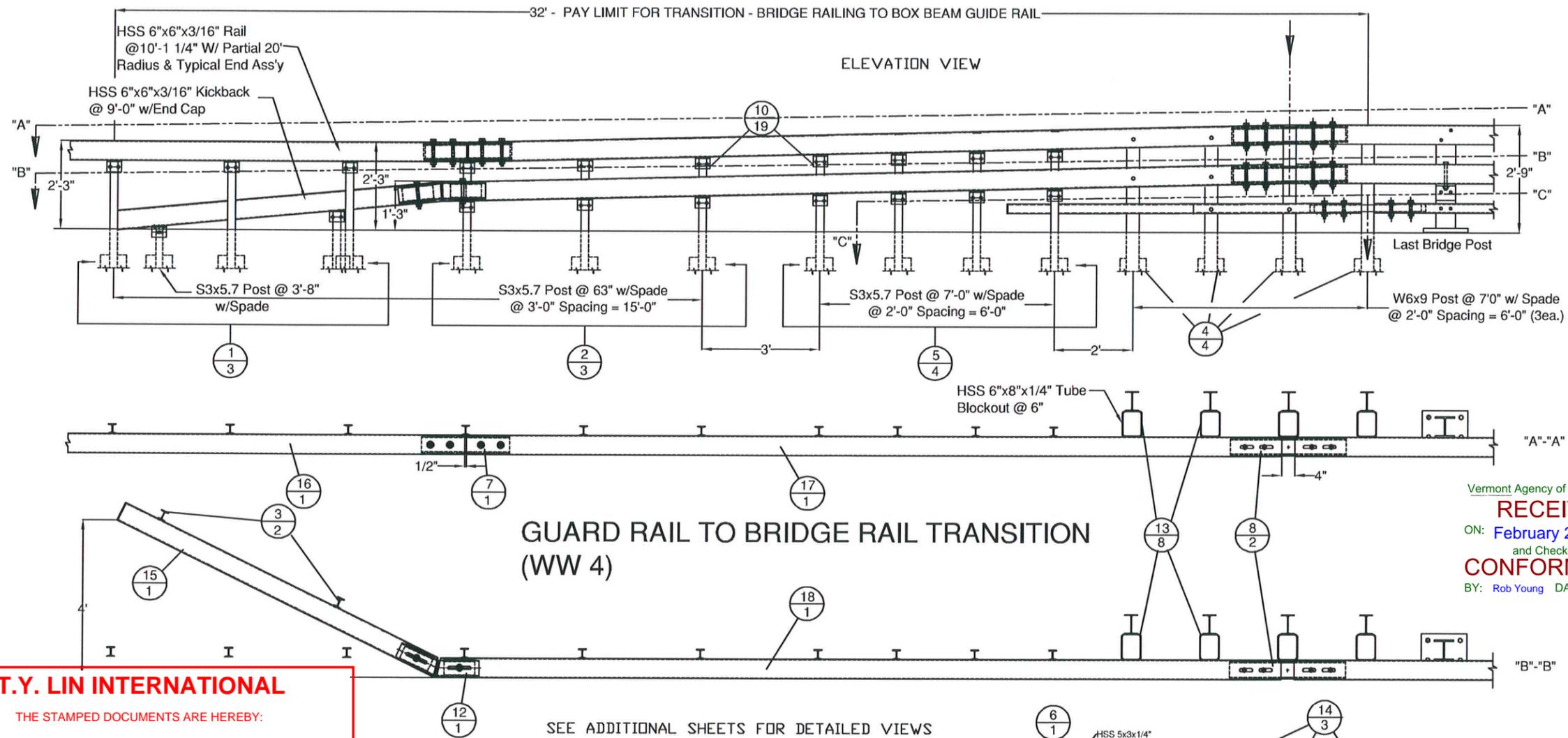
GUARD RAIL TO BRIDGE RAIL TRANSITION DETAILS SHEET
 CAVENDISH, ER BR# 0416 (13), ROUTE VT 131, OVER TWENTY MILE STREAM

R NO.	DATE	DESCRIPTION	BY	R NO.	DATE	DESCRIPTION	BY
E 1	2/17/14	REVISED PER 12/20/13 MARK-UP	EP	E 1			

DRAWN	E.P.	11/13/13
CHECKED	D.L.	11/20/13
APPROVED		
SCALE	SCHEMATIC	

DRAWING NO. F.R. LAFAYETTE, CAVENDISH

ELDERLEE, INC.
 OAKS CORNERS, NEW YORK 14518
 E-Mail: dlong@elderlee.com
 Tel: 315-788-8670 Fax: 315-788-8615



Vermont Agency of Transportation
RECEIVED
 ON: February 28, 2014
 and Checked for
CONFORMANCE
 BY: Rob Young DATE: 03/07/2014

T.Y. LIN INTERNATIONAL
 THE STAMPED DOCUMENTS ARE HEREBY:
 APPROVED
 APPROVED AS NOTED
 REVISE AND RESUBMIT
 SEE TRANSMITTAL FOR ADDITIONAL INFORMATION AS APPLICABLE.
 THIS REVIEW IS FOR GENERAL CONFORMANCE WITH DESIGN CONCEPT ONLY. ANY DEVIATION FROM THE PLANS OR SPECIFICATIONS NOT CLEARLY NOTED BY THE CONTRACTOR HAS NOT BEEN REVIEWED. REVIEW BY THE ENGINEER SHALL NOT RELIEVE THE CONTRACTOR OF THE CONTRACTUAL RESPONSIBILITY FOR ANY ERRORS OR DEVIATION FROM THE CONTRACT REQUIREMENTS.
 JOSH OLUND 02/28/2014
 REVIEWER DATE

BILL OF MATERIALS, WW 4

ITEM #	QTY.	COMPONENT #	DESCRIPTION	MATERIAL (ASTM)
1	3	0013.57021	3" I-POST, PUNCH 8" W/SPD @ 63" LG	ASTM A572 Gr. 50
2	3	0013.57025	3" I-POST, PUNCH 8", @ 20" W/SPD @ 63" LG	ASTM A572 Gr. 50
3	2	0013.57060	3" I-END POST W/SPD @ 3'-8" LG	ASTM A572 Gr. 50
4	4	0013.09001	W6X9 POST @ 7' W/SPD @ 5/8" HOLES	ASTM A572 Gr. 50
5	4	0013.57010	3" I-POST, PUNCH 8" @ 20", W/8X32" SPADE @ 7'	ASTM A572 Gr. 50
6	1	0033.80403	5X5" BTM TRANS RAIL W/5'-0" KB, EXP END	A500 Gr. B
7	1	0033.00640	HSS 5X5 TUBE SPLICE @ 27" LG W/ 1/4" SHIMS	A500 Gr. B / A572 Gr 50
8	2	0033.00730	HSS 5X5 EXP TUBE SPLICE @ 36" LG W/ 1/4" SHIMS	A500 Gr. B / A572 Gr 50
9	1	0033.00930	BR EXP BAR SPLICE @ 1/8" X 4-1/4" @ 36" LG	ASTM A36
10	19	0054.00050	REG BB SHELF ANGLES @ 4-1/2"	ASTM A36
12	1	0054.00074	HSS 5X5 DBL BEND TUBE SPL @ 27" LG.	A500 Gr. B / A572 Gr 50
13	8	0054.00563	6X8" TRANS. TUBE B/O @ 6" LG	A500 Gr. B
14	3	0054.00565	6X8" TRANS. TUBE B/O @ 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'-9 5/8" LG W/EXP END	A500 Gr. B
18	1	0054.90093	6X6" BB BTM TRANS @ 21'-4 5/8" LG W/EXP END	A500 Gr. B
19	18	0080.03355	3/8" X 7 1/2" BOLT, NUT, & 2" FV	A307, A563, F436
20	19	0080.04100	1/2" X 1-1/2" BOLT, NUT, & FV	A307, A563, F436
21	22	0080.04120	1/2" X 1-1/2" BOLT, NUT, 2" FV & LW	A307, A563, F436
22	4	0080.06255	3/4" X 4-1/2" BOLT, NUT, 2" FV	A325, A563, F436
23	12	0080.06340	3/4" X 7-1/2" BOLT, NUT, 2" FV	A325, A563, F436
24	6	0080.06370	3/4" X 8" CARR BOLT, NUT, FV & LW	A307, A563, F436
25	2	0080.06400	3/4" X 8" BOLT, NUT, 2" FV, & LW	A325, A563, F436

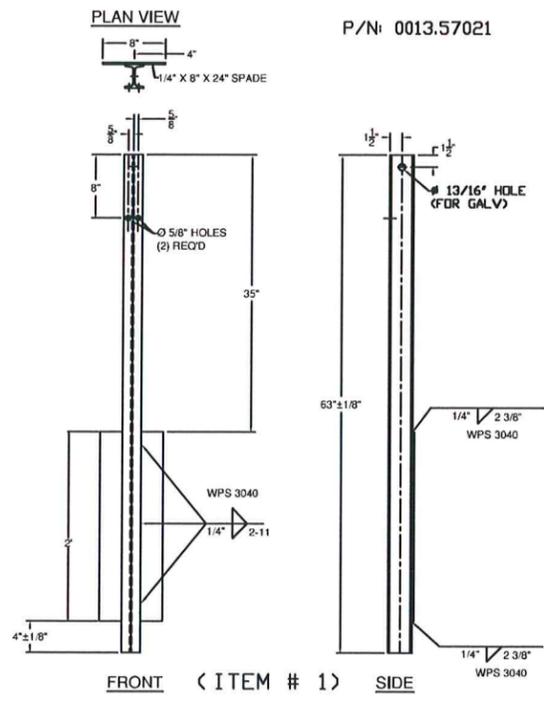
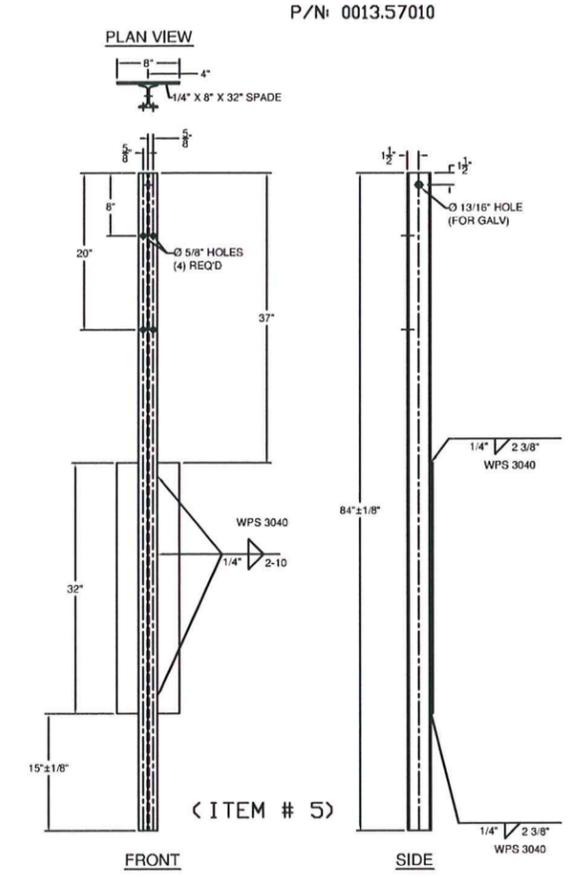
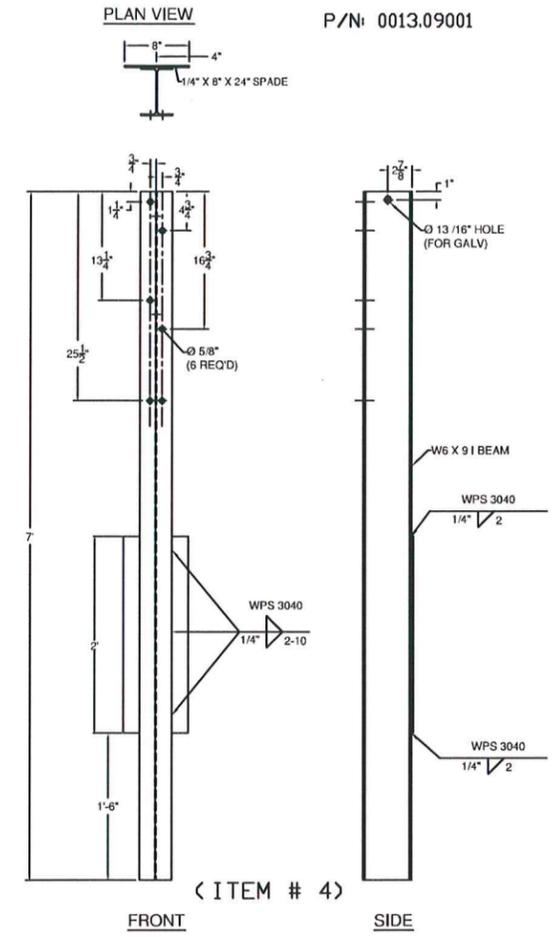
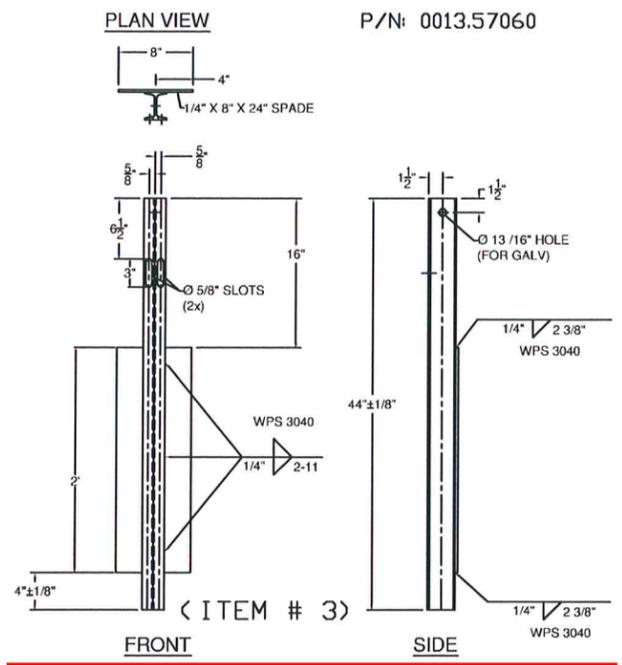
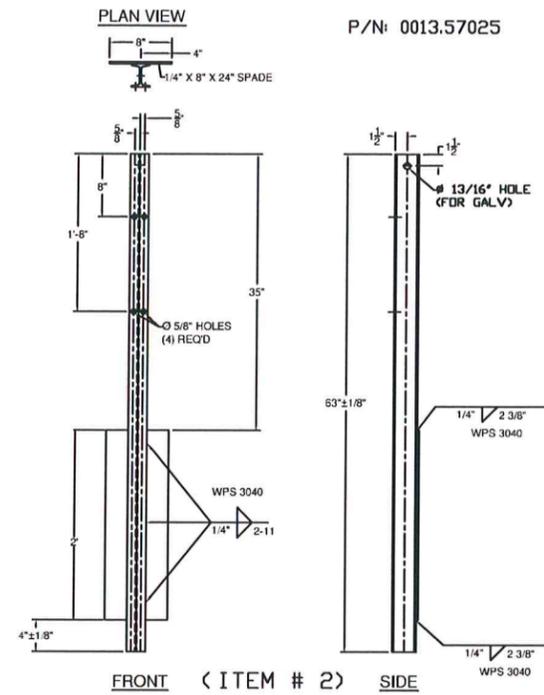
ITEM #: 621.725
 APPROVED BY: _____
 F.R. LAFAYETTE, CAVENDISH
GUARD RAIL TO BRIDGE RAIL TRANSITION DETAILS SHEET
 CAVENDISH, ER BR# 0416 (13), ROUTE VT 131, OVER TWENTY MILE STREAM
 VERMONT
 SHEET 4 OF 10

R NO.	DATE	DESCRIPTION	BY	R NO.	DATE	DESCRIPTION	BY
E 1	2/11/14	REVISED PER 12/20/13 MARK-UP	EP	E			

DRAWN	E.P.	11/13/13
CHECKED	D.L.	11/20/13
APPROVED		
SCALE	SCHEMATIC	

ELDERLEE, INC.
 OAKS CORNERS, NEW YORK 14518
 E-Mail: dlong@elderlee.com
 Tel: 315-789-8670 Fax: 315-789-8615

DRAWING NO. F.R. LAFAYETTE, CAVENDISH



T.Y. LIN INTERNATIONAL

THE STAMPED DOCUMENTS ARE HEREBY:

APPROVED
 APPROVED AS NOTED
 REVISE AND RESUBMIT

SEE TRANSMITTAL FOR ADDITIONAL INFORMATION AS APPLICABLE.

THIS REVIEW IS FOR GENERAL CONFORMANCE WITH DESIGN CONCEPT ONLY. ANY DEVIATION FROM THE PLANS OR SPECIFICATIONS NOT CLEARLY NOTED BY THE CONTRACTOR HAS NOT BEEN REVIEWED. REVIEW BY THE ENGINEER SHALL NOT RELIEVE THE CONTRACTOR OF THE CONTRACTUAL RESPONSIBILITY FOR ANY ERRORS OR DEVIATION FROM THE CONTRACT REQUIREMENTS.

_____ JOSH OLUND _____ 02/28/2014
 REVIEWER DATE

- GENERAL NOTES:
- 1) ALL RAILING IS TO BE FABRICATED AND ERECTED ACCORDING TO SECTION 525 OF THE STANDARD SPECIFICATIONS.
 - 2) BOLTS SHALL BE TORQUED SNUG TIGHT (APPROXIMATELY 100 FT-LB).
 - 3) PROTRUSIONS CAUSED BY WELDING OR GALVANIZING ARE NOT PERMITTED ON THE ADJOINING SURFACES OF THE BOX BEAM RAILS, SPLICE TUBES AND FILL PLATES.
 - 4) BOX BEAM TUBE AND STEEL POST MATERIALS, DIMENSION SIZES AND NOTES SHALL BE THE SAME AS THOSE OF THE BRIDGE RAIL, UNLESS OTHERWISE NOTED.
 - 5) ANY BENDING OF RAIL SHALL BE DONE AT THE FABRICATION PLANT. RADII GREATER THAN 16' TO BE CURVED ON A TUBE BENDING MACHINE, RADII LESS THAN 16' TO BE "PIE CUT" AND WELDED. CURVED RAILING WILL HAVE AN 18" LENGTH ON EACH END STRAIGHT TO ACCOMMODATE SPLICES.

ITEM #: 621.725

F.R. LAFAYETTE, CAVENDISH

SHEET 5 OF 10

APPROVED BY:

GUARD RAIL TO BRIDGE RAIL TRANSITION DETAILS SHEET
 CAVENDISH, ER BR# 0416 (13), ROUTE VT 131, OVER TWENTY MILE STREAM
 VERMONT

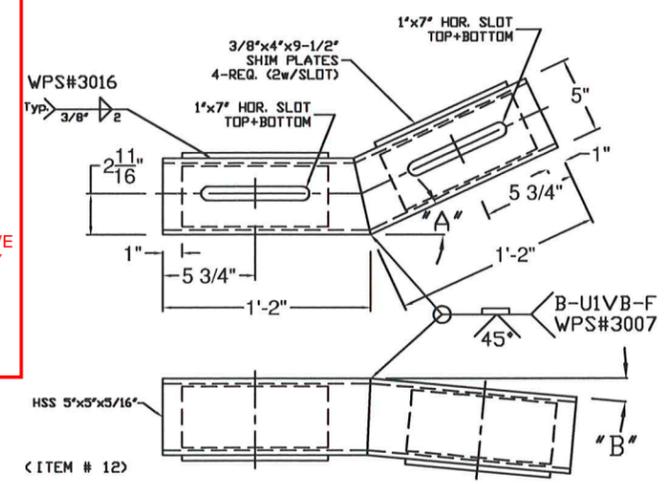
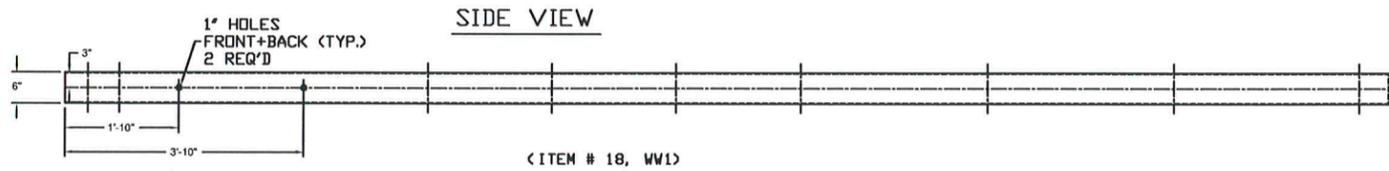
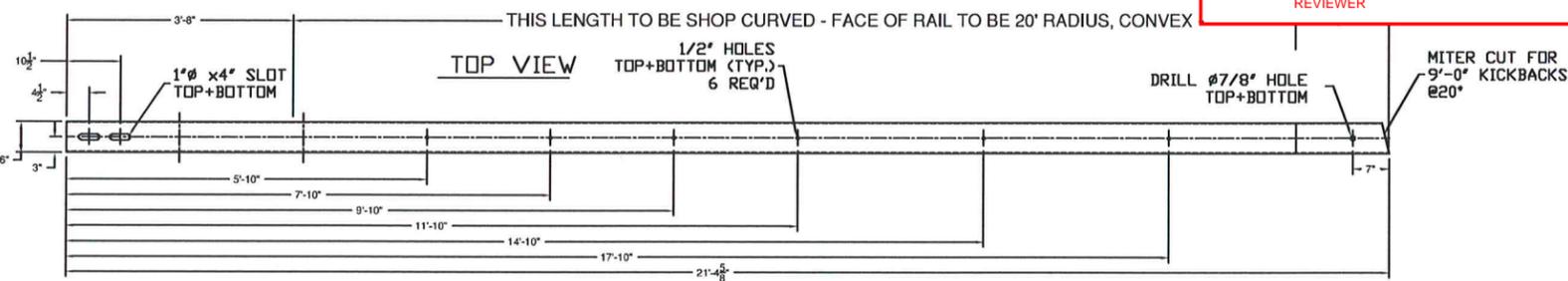
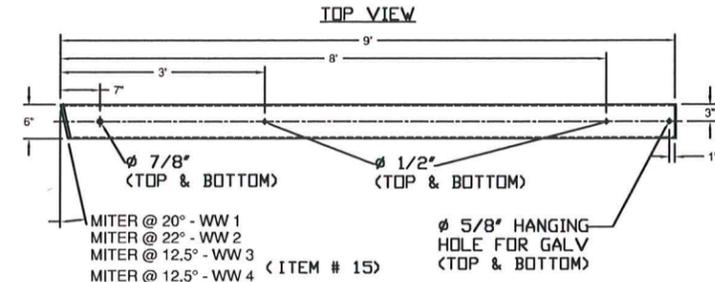
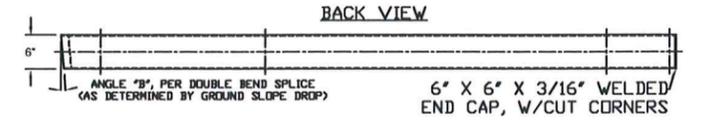
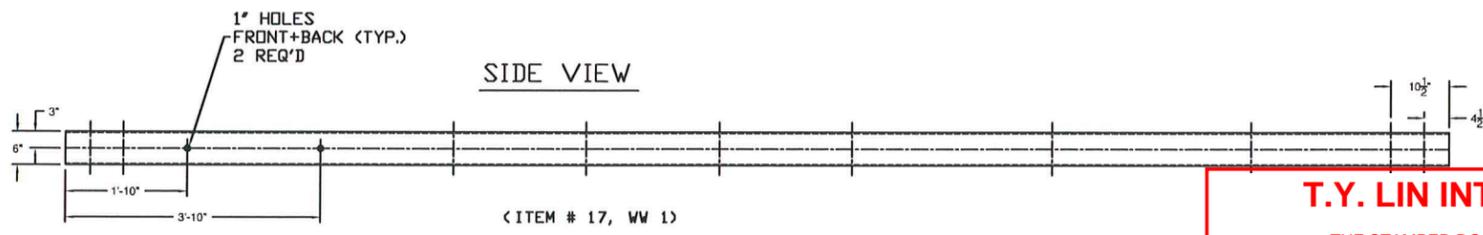
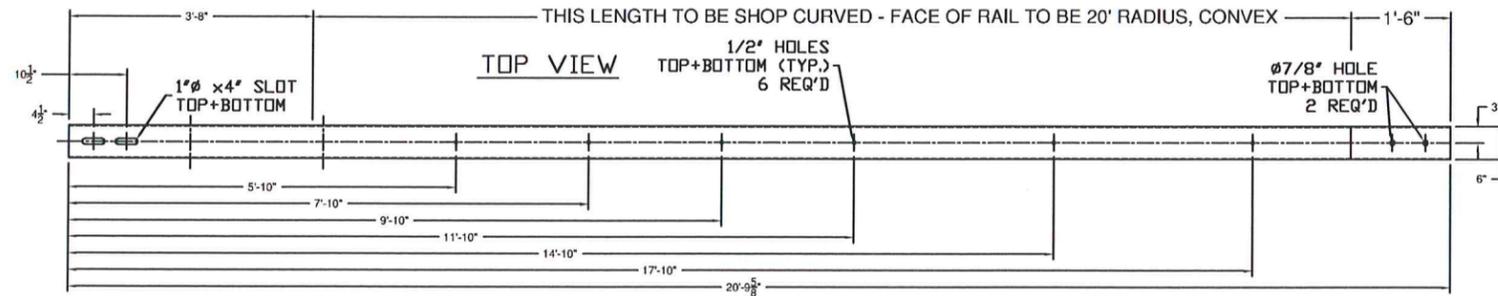
R NO.	DATE	DESCRIPTION	BY	R NO.	DATE	DESCRIPTION	BY
E 1	2/17/14	REVISED PER 12/20/13 MARK-UP	EP	E			
V 2	2/27/14	REVISED PER 2/18/14 MARK-UP	EP	V			

ELDERLEE, INC.
 OAKS CORNERS, NEW YORK 14518
 E-Mail: dlong@elderlee.com
 Tel: 315-789-8670 Fax: 315-789-6815

CERTIFIED FABRICATOR

DRAWN	E.P.	11/13/13
CHECKED	D.L.	11/20/13
APPROVED		
SCALE	SCHEMATIC	
DRAWING NO. F.R. LAFAYETTE, CAVENDISH		

Vermont Agency of Transportation
RECEIVED
 ON: February 28, 2014
 and Checked for
CONFORMANCE
 BY: Rob Young DATE: 03/07/2014



A - SEE PLAN FOR TURN BACK DISTANCE, SET ANGLE ACCORDINGLY. (40° FOR WW 1, 45° FOR WW2, 25° FOR WW 3 & WW 4)
 B - TURN DOWN ANGLE SET BY THE 9' MEASUREMENT AT THE END OF THE BOX BEAM. (FIELD MEASUREMENT REQ'D)

T.Y. LIN INTERNATIONAL
 THE STAMPED DOCUMENTS ARE HEREBY:

APPROVED
 APPROVED AS NOTED
 REVISE AND RESUBMIT

SEE TRANSMITTAL FOR ADDITIONAL INFORMATION AS APPLICABLE.

THIS REVIEW IS FOR GENERAL CONFORMANCE WITH DESIGN CONCEPT ONLY. ANY DEVIATION FROM THE PLANS OR SPECIFICATIONS NOT CLEARLY NOTED BY THE CONTRACTOR HAS NOT BEEN REVIEWED. REVIEW BY THE ENGINEER SHALL NOT RELIEVE THE CONTRACTOR OF THE CONTRACTUAL RESPONSIBILITY FOR ANY ERRORS OR DEVIATION FROM THE CONTRACT REQUIREMENTS.

JOSH OLUND REVIEWER 02/28/2014 DATE

Vermont Agency of Transportation
RECEIVED
 ON: February 28, 2014
 and Checked for
CONFORMANCE
 BY: Rob Young DATE: 03/07/2014

ITEM #: 621.725
 APPROVED BY:

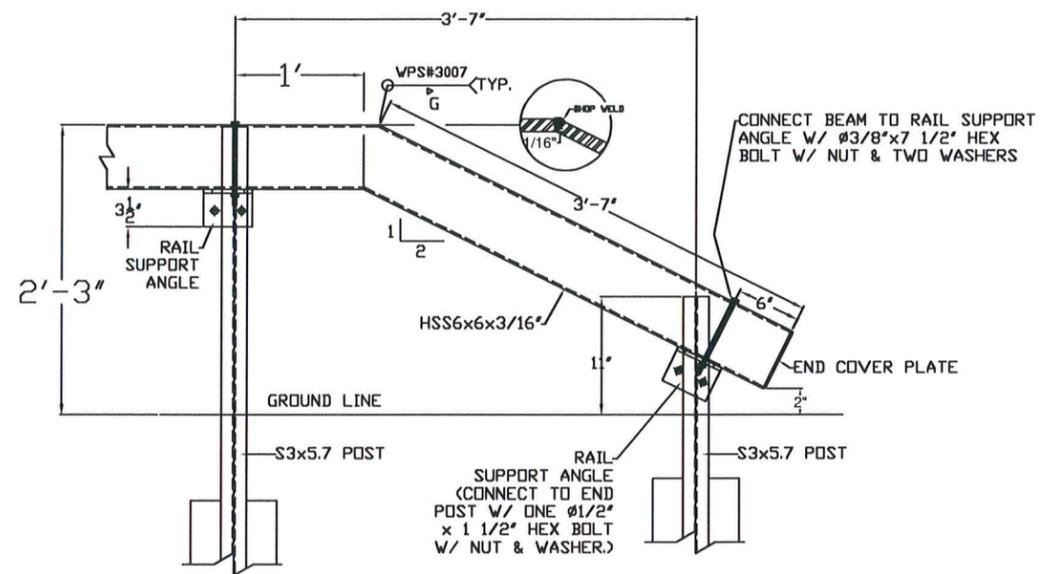
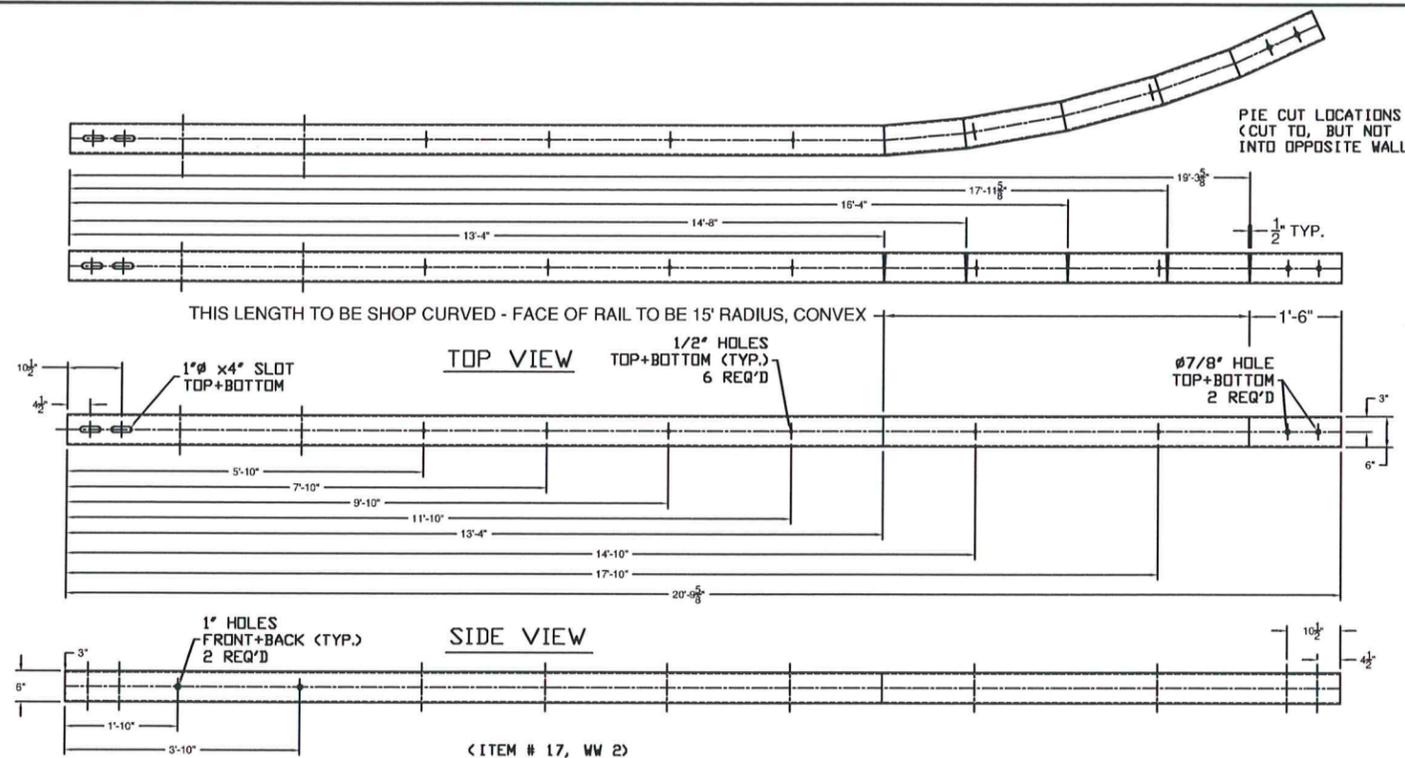
F.R. LAFAYETTE, CAVENDISH

SHEET 7 OF 10

GUARD RAIL TO BRIDGE RAIL TRANSITION DETAILS SHEET
 CAVENDISH, ER BR# 0416 (13), ROUTE VT 131, OVER TWENTY MILE STREAM
 VERMONT

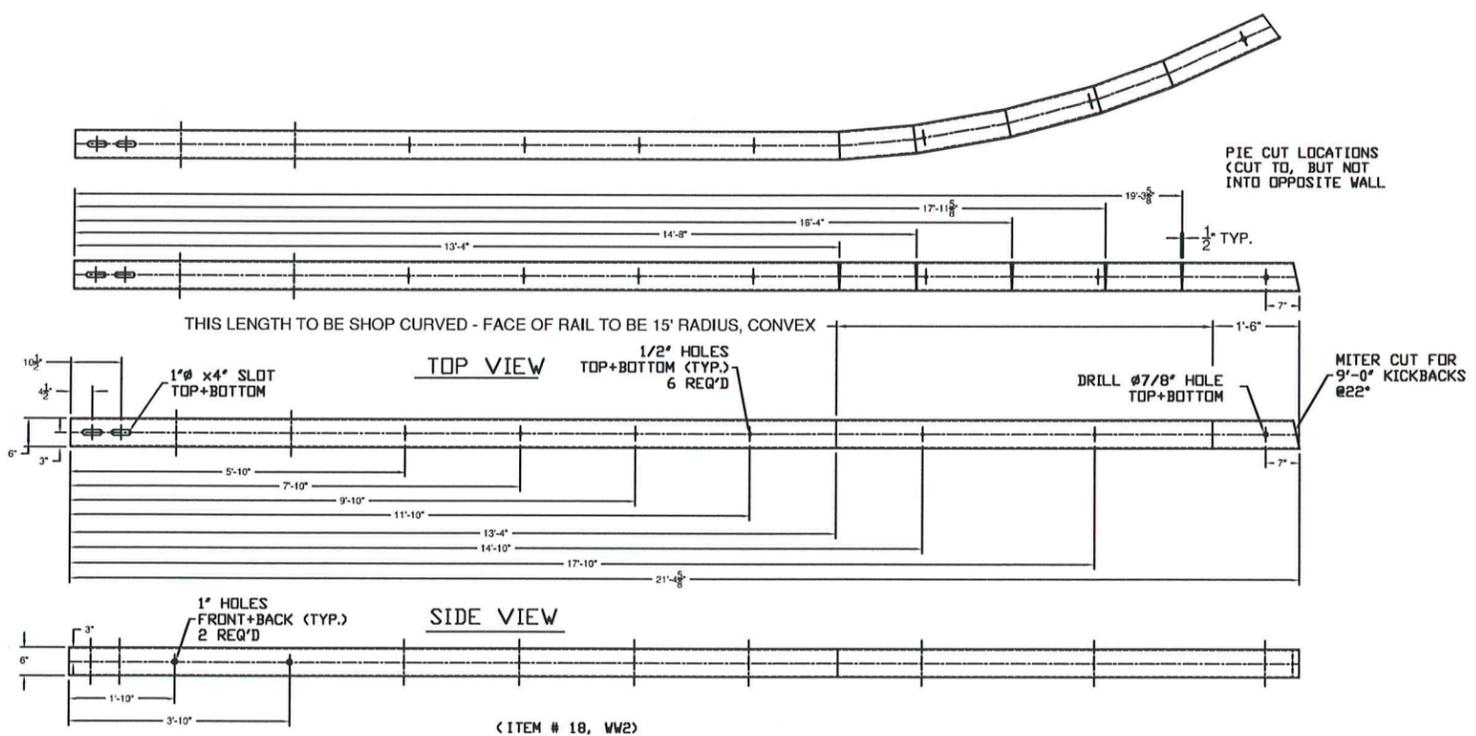
R NO.	DATE	DESCRIPTION	BY	R NO.	DATE	DESCRIPTION	BY
E 1	2/17/14	REVISED PER 12/20/13 MARK-UP	EP E				
V 2	2/27/14	REVISED PER 2/18/14 MARK-UP	EP V				

	ELDERLEE, INC. OAKS CORNERS, NEW YORK 14518 E-Mail: dlong@elderlee.com Tel: 315-789-6670 Fax: 315-789-6615		DRAWN E.P. 11/13/13 CHECKED D.L. 11/20/13 APPROVED SCALE SCHEMATIC DRAWING NO. F.R. LAFAYETTE, CAVENDISH
--	--	--	---



TYPICAL END ASSEMBLY DETAIL

Vermont Agency of Transportation
RECEIVED
 ON: February 28, 2014
 and Checked for
CONFORMANCE
 BY: Rob Young DATE: 03/07/2014



T.Y. LIN INTERNATIONAL

THE STAMPED DOCUMENTS ARE HEREBY:

x APPROVED
 APPROVED AS NOTED
 REVISE AND RESUBMIT

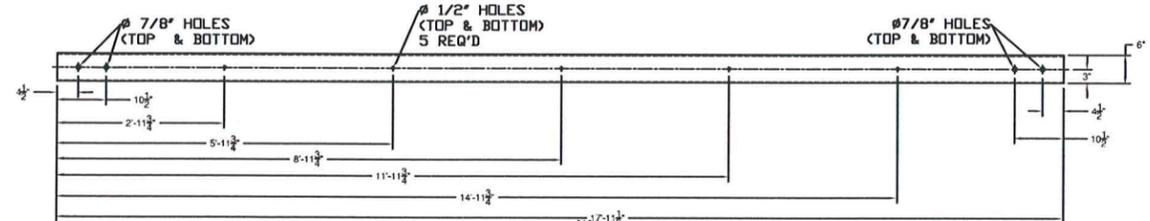
SEE TRANSMITTAL FOR ADDITIONAL INFORMATION AS APPLICABLE.

THIS REVIEW IS FOR GENERAL CONFORMANCE WITH DESIGN CONCEPT ONLY. ANY DEVIATION FROM THE PLANS OR SPECIFICATIONS NOT CLEARLY NOTED BY THE CONTRACTOR HAS NOT BEEN REVIEWED. REVIEW BY THE ENGINEER SHALL NOT RELIEVE THE CONTRACTOR OF THE CONTRACTUAL RESPONSIBILITY FOR ANY ERRORS OR DEVIATION FROM THE CONTRACT REQUIREMENTS.

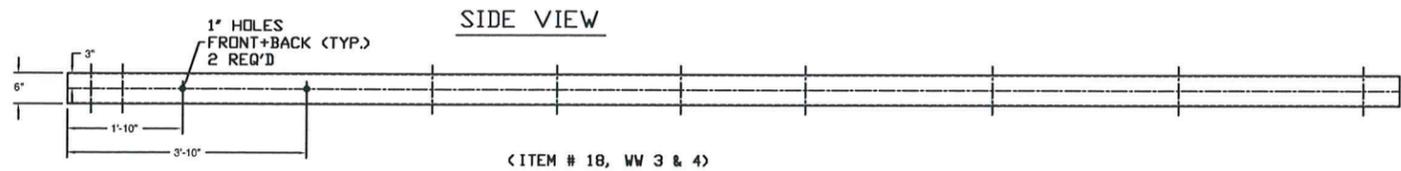
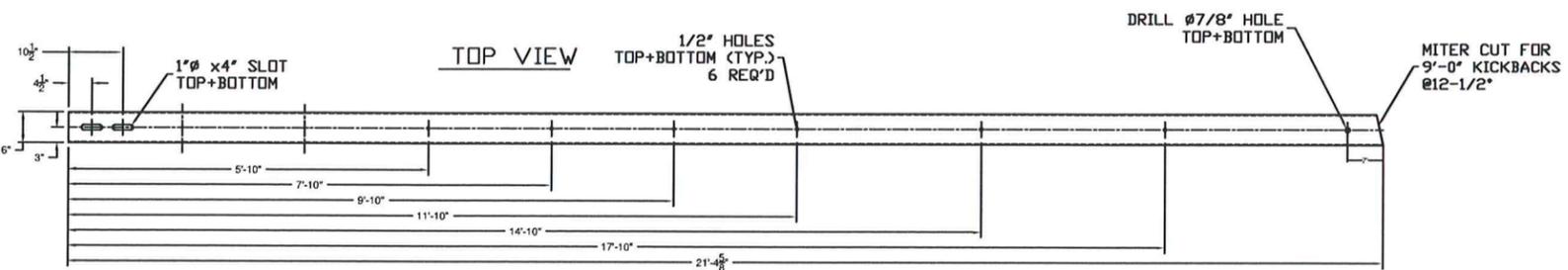
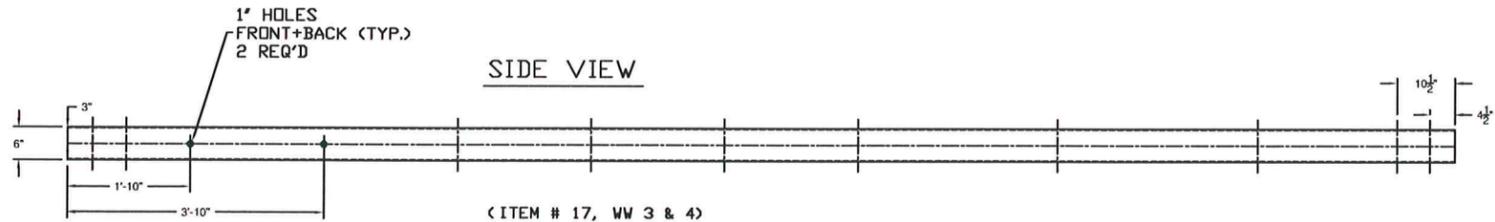
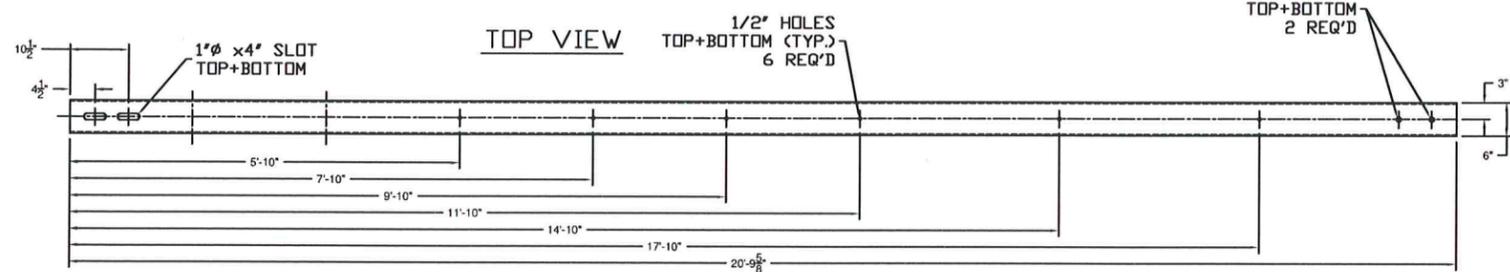
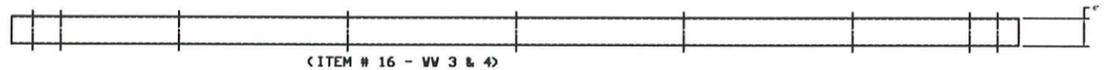
JOSH OLUND
 REVIEWER

02/28/2014
 DATE

ITEM #: 621.725		F.R. LAFAYETTE, CAVENDISH		SHEET 8 OF 10			
APPROVED BY:		GUARD RAIL TO BRIDGE RAIL TRANSITION DETAILS SHEET <small>CAVENDISH, ER BR# 0416 (13), ROUTE VT 131, OVER TWENTY MILE STREAM VERMONT</small>					
R NO.	DATE	DESCRIPTION	BY	R NO.	DATE	DESCRIPTION	BY
E 1	2/17/14	REVISED PER 12/20/13 MARK-UP	EP	E			
V 2	2/27/14	REVISED PER 2/18/14 MARK-UP	EP	V			
		ELDERLEE, INC. <small>OAKS CORNERS, NEW YORK 14618 E-Mail: dlong@elderlee.com Tel: 315-789-8670 Fax: 315-789-6816</small>				DRAWN E.P. 11/13/13	
				CHECKED D.L. 11/20/13			
				APPROVED			
				SCALE SCHEMATIC			
				DRAWING NO. F.R. LAFAYETTE, CAVENDISH			



* - THIS LENGTH TO BE COORDINATED W/ THE GUARDRAIL MATERIAL TO BE USED (FIRST 9' IS PAID UNDER BRIDGE RAIL ITEM, REMAINDER IS GUARDRAIL ITEM)



Vermont Agency of Transportation

RECEIVED

ON: February 28, 2014

and Checked for
CONFORMANCE

BY: Rob Young DATE: 03/07/2014

T.Y. LIN INTERNATIONAL

THE STAMPED DOCUMENTS ARE HEREBY:

- APPROVED
- APPROVED AS NOTED
- REVISE AND RESUBMIT

SEE TRANSMITTAL FOR ADDITIONAL INFORMATION AS APPLICABLE.

THIS REVIEW IS FOR GENERAL CONFORMANCE WITH DESIGN CONCEPT ONLY. ANY DEVIATION FROM THE PLANS OR SPECIFICATIONS NOT CLEARLY NOTED BY THE CONTRACTOR HAS NOT BEEN REVIEWED. REVIEW BY THE ENGINEER SHALL NOT RELIEVE THE CONTRACTOR OF THE CONTRACTUAL RESPONSIBILITY FOR ANY ERRORS OR DEVIATION FROM THE CONTRACT REQUIREMENTS.

JOSH OLUND
REVIEWER

02/28/2014
DATE

ITEM #: 621.725

F.R. LAFAYETTE, CAVENDISH

SHEET 9 OF 10

APPROVED BY:

GUARD RAIL TO BRIDGE RAIL TRANSITION DETAILS SHEET

CAVENDISH, ER BR# 0416 (13), ROUTE VT 131, OVER TWENTY MILE STREAM
VERMONT

R	NO.	DATE	DESCRIPTION	BY	R	NO.	DATE	DESCRIPTION	BY
E	1	2/17/14	REVISED PER 12/20/13 MARK-UP	EP	E				
V					V				

ELDERLEE, INC.
OAKS CORNERS, NEW YORK 14518
E-Mail: dlong@elderlee.com
Tel: 315-789-6670 Fax: 315-789-6615



DRAWN	E.P.	11/13/13
CHECKED	D.L.	11/20/13
APPROVED		
SCALE	SCHEMATIC	
DRAWING NO. F.R. LAFAYETTE, CAVENDISH		

