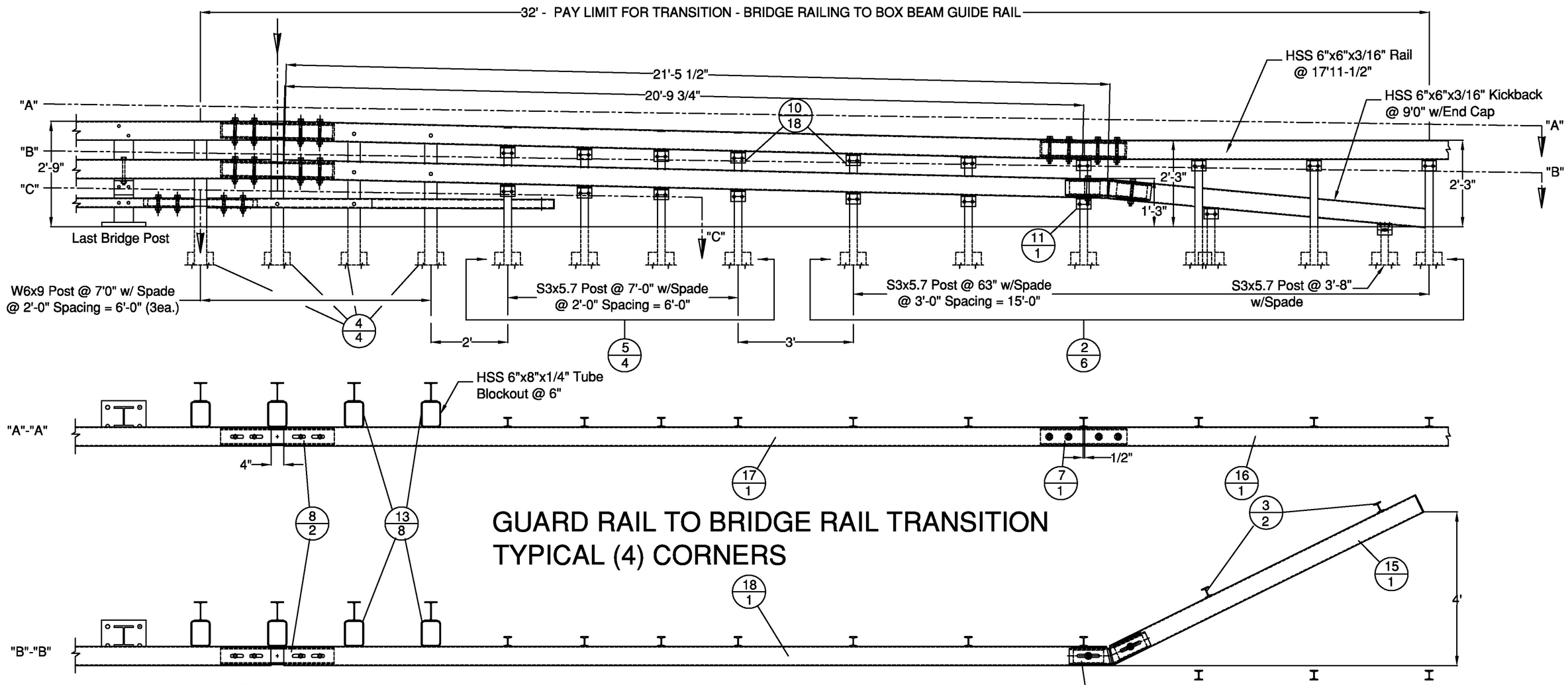

GUARD RAIL TO BRIDGE RAIL TRANSITION
TYPICAL (4) CORNERS

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 #'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 #11)

BILL OF MATERIALS, EACH OF (4) CORNERS			
ITEM #	QTY.	DESCRIPTION	MATERIAL (ASTM)
2	6	3' I-POST, PUNCH 8", & 20" W/SPD @ 63" LG	A572 Gr. 50
3	2	3' I-END POST W/SPD @ 3'-8" LG	A572 Gr. 50
4	4	W6X9 POST @ 7' W/SPD & 5/8" HOLES	A572 Gr. 50
5	4	3' I-POST, PUNCH 8" & 20", W/8X32" SPADE @7'	A572 Gr. 50
6	1	HSS 3X5" BTM TRANS RAIL W/5'-0" KB, EXP END	A500 Gr. B
7	1	HSS 5X5 TUBE SPLICE @27" LG W/ 1/4" SHIMS	A500 Gr. B / A572 Gr 50
8	2	HSS 5x5 EXP TUBE SPLICE @ 36" LG W/ 1/4" SHIMS	A500 Gr. B / A572 Gr 50
9	1	BR EXP BAR SPLICE 2-1/8" X 4-1/4" @ 36" LG	A572 Gr. 50
10	18	REG BB SHELF ANGLES @ 4-1/2"	A572 Gr. 50
11	1	DVY BB SHELF ANGLES @ 4-1/2"	A572 Gr. 50
12	1	HSS 5X5 DBL BEND TUBE SPL @ 28" LG	A500 Gr. B / A572 Gr 50
13	8	HSS 6X8" TRANS. TUBE B/O @ 6" LG	A500 Gr. B
14	3	HSS 6X8" TRANS. TUBE B/O @ 3" LG	A500 Gr. B
15	1	HSS 6X6" BB @ 9'-0" KICKBACK, W/ CAP	A500 Gr. B / A36
16	0.5	HSS 6X6" BB @ 17'-11 1/2", DRILL 3" CC	A500 Gr. B
17	1	HSS 6X6" BB TOP TRANS @ 20'-9 3/4" LG W/EXP END	A500 Gr. B
18	1	HSS 6X6" BB BTM TRANS @ 21'-5 1/2" LG W/EXP END	A500 Gr. B
19	18	3/8" X 7 1/2" BOLT, NUT, & 2 FW	A307, A563, F436
20	19	1/2" x 1-1/8" BOLT, NUT, & FW	A307, A563, F436
21	22	1/2" x 1-1/8" BOLT, NUT, 2 FW & LW	A307, A563, F436
22	4	3/4" X 4-1/2" BOLT, NUT, 2 FW	A325, A563, F436
23	12	3/4" X 7-1/2" BOLT, NUT, 2 FW	A325, A563, F436
24	6	3/4" X 8" CARR BOLT, NUT, FW & LW	A307, A563, F436
25	2	3/4" X 8" BOLT, NUT, 2 FW, & LW	A325, A563, F436

7/8" BOLT

Vermont Agency of Transportation
RECEIVED
CK'D BY R. Klinefelter OK'D BY J. Salvatori
February 14, 2013
RESUBMIT Approved AS NOTED
BY K. Higgins DATE 02/19/13

ITEM #: 525.335

F.R. LAFAYETTE, P.O. 27399

SHEET 1 OF 4

APPROVED BY:

GUARD RAIL TO BRIDGE RAIL TRANSITION DETAILS SHEET

PROJECT: BRIGHTON, PROJECT # ER STP 034-3(25), MINOR ARTERIAL, BRIDGE # 84
TOWN OF BRIGHTON, ESSEX COUNTY, VT.

R	NO.	DATE	DESCRIPTION	BY	R	NO.	DATE	DESCRIPTION	BY
E	1	12/26/12	REVISED PER 12/26/12 EMAIL	E.P.	E				
V	2	1/9/13	REVISED PER 1/9/13 EMAIL	E.P.	V				

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

AISC CERTIFIED FABRICATOR

DRAWN	E.P.	12/03/12
CHECKED	D.L.	12/03/12
APPROVED	.	.
SCALE	SCHEMATIC	
DRAWING NO.	F.R. LAFAYETTE BRIGHTON	