

BILL OF MATERIAL

EAST RAIL APPROACH

QUANTITY = 2

NE	SE	mk	Description	Spec.
1	1	E1	END POST W6x25 8'-8" OAH (GALV)	A572 gr 50
1	1	E2	END POST W6x25 8'-8" OAH (GALV)	A572 gr 50
1	1	E3	END POST W6x25 8'-8" OAH (GALV)	A572 gr 50
1	1	E4	END POST W6x25 8'-8" OAH (GALV)	A572 gr 50
1	1	E5	END POST W6x25 8'-8" OAH (GALV)	A572 gr 50
1	1	E6	END POST W6x25 8'-8" OAH (GALV)	A572 gr 50
1	1	E7	END POST W6x25 8'-8" OAH (GALV)	A572 gr 50
0	1		SPLICE TUBE FOR 4x4 RAIL (GALV) angled TS 3x3x5/16 1'-11.750" LG w/ 2 WELDED NUTS	A500 gr B
0	1		SPLICE TUBE FOR 8x4 RAIL (GALV) angled TS 7x3x3/8 1'-11.750" LG w/ 2 WELDED NUTS	A500 gr B
0	1		SPLICE TUBE FOR 4x4 RAIL (GALV) angled TS 3x3x5/16 1'-11.750" LG w/ 2 WELDED NUTS	A500 gr B
0	1		SPLICE TUBE FOR 4x4 RAIL (GALV) angled TS 3x3x5/16 1'-11.750" LG w/ 2 WELDED NUTS	A500 gr B
1	0		SPLICE TUBE FOR TOP 4x4 RAIL (GALV) double angled TS 3x3x5/16 1'-11.750" LG w/ 2 WELDED NUTS	A500 gr B
1	0		SPLICE TUBE FOR 8x4 RAIL (GALV) double angled TS 7x3x3/8 1'-11.750" LG w/ 2 WELDED NUTS	A500 gr B
1	0		SPLICE TUBE FOR 3RD 4x4 RAIL (GALV) double angled TS 3x3x5/16 1'-11.750" LG w/ 2 WELDED NUTS	A500 gr B
1	0		SPLICE TUBE FOR BOTTOM 4x4 RAIL (GALV) angled TS 3x3x5/16 1'-11.750" LG w/ 2 WELDED NUTS	A500 gr B
1	1		UPPER RAIL APPROACH TUBE HSS 4 x 4 x 1/25 x 24'-2" w/ 3,500 SLOTS FOR 4" EXP GAP (GALV)	A500 gr B
1	1		UPPER MIDDLE RAIL APPROACH TUBE HSS 8 x 4 x 5/16 x 24'-2.000" (GALV)	A500 gr B
1	1		LOWER MIDDLE RAIL APPROACH 4 x 4 x 1/25 x 24'-2" (Galv)	A500 gr B
1	1		LOWER RAIL APPROACH TUBE HSS 4 x 4 x 5/16 x 22'-2.000" w/ 3,500 SLOTS FOR 4" EXP GAP (GALV)	A500 gr B
1	1		BACK PLATE	A36
1	1		END CAP 3/16"x4"x8" w/ 4x 1"x1"x.125" TABS (GALV)	A36
3	3		END CAP 3/16"x4"x4" w/ 4x 1"x1"x.125" TABS (GALV)	A36
1	1		THRIE POST W6x8.5# x 7'-0" (GALV)	A572, Gr 50
1	1		TRANSITION POST W6x8.5# x 7'-0" (GALV)	A572, Gr 50
1	1		STANDARD POST W6x8.5# x 7'-0" (GALV)	A572, Gr 50
1	1		WOOD BLOCK 6" X 8" X 21.5" OFFSET ROUTED	WOOD
1	1		WOOD BLOCK THRIE 6" X 8" X 18" ROUTED FOR TRANSITION POST	WOOD
1	1		WOOD BLOCK 6" X 8" X 14" ROUTED	WOOD
1	1		TERMINAL CONNECTOR 10 Ga. (with slotted holes)	M180 B2
1	1		THRIE TRANSITION PANEL 10 Ga.	M180 B2
32	32		3/4" SLOTTED HEAD BOLT (GALV.) 0.75" DIA. X 6.00" LG. NO SHLDR	A325
20	20		5/8" GUARDRAIL SPLICE BOLT (GALV.) 0.625" DIA. X 1.750" LG. W/ NUT	A307
16	16		3/4" SPACER PIPE 0.750" DIA. (SCH 40) X 0.5" LG.	A53 gr B
64	64		3/4" HEAVY HEX NUT (GALV.) 0.750" DIA.	A563 DH
20	20		5/8" DBL. RECESSED NUT (GALV.) 0.625" DIA.	A563 DH
1	1		3/4" ROUND HEAD BOLT (GALV.) 0.750" DIA. X 2.000" LG.	A307
6	6		POST BOLT 0.625" x 11" x 9.5" HDG (5/8)	A307

WEST RAIL APPROACH

QUANTITY = 2

NW	SW	mk	Description	Spec.
1	1	W1	END POST W6x25 8'-8" OAH (GALV)	A572 gr 50
1	1	W2	END POST W6x25 8'-8" OAH (GALV)	A572 gr 50
1	1	W3	END POST W6x25 8'-8" OAH (GALV)	A572 gr 50
1	1	W4	END POST W6x25 8'-8" OAH (GALV)	A572 gr 50
1	1	W5	END POST W6x25 8'-8" OAH (GALV)	A572 gr 50
1	1	W6	END POST W6x25 8'-8" OAH (GALV)	A572 gr 50
1	1	W7	END POST W6x25 8'-8" OAH (GALV)	A572 gr 50
0	1		SPLICE TUBE FOR 4x4 RAIL (GALV) angled TS 3x3x5/16 1'-11.750" LG w/ 2 WELDED NUTS	A500 gr B
0	1		SPLICE TUBE FOR 8x4 RAIL (GALV) angled TS 7x3x3/8 1'-11.750" LG w/ 2 WELDED NUTS	A500 gr B
0	1		SPLICE TUBE FOR 4x4 RAIL (GALV) angled TS 3x3x5/16 1'-11.750" LG w/ 2 WELDED NUTS	A500 gr B
0	1		SPLICE TUBE FOR 4x4 RAIL (GALV) angled TS 3x3x5/16 1'-11.750" LG w/ 2 WELDED NUTS	A500 gr B
1	0		SPLICE TUBE FOR TOP 4x4 RAIL (GALV) double angled TS 3x3x5/16 1'-11.750" LG w/ 2 WELDED NUTS	A500 gr B
1	0		SPLICE TUBE FOR 8x4 RAIL (GALV) double angled TS 7x3x3/8 1'-11.750" LG w/ 2 WELDED NUTS	A500 gr B
1	0		SPLICE TUBE FOR 3RD 4x4 RAIL (GALV) double angled TS 3x3x5/16 1'-11.750" LG w/ 2 WELDED NUTS	A500 gr B
1	0		SPLICE TUBE FOR BOTTOM 4x4 RAIL (GALV) angled TS 3x3x5/16 1'-11.750" LG w/ 2 WELDED NUTS	A500 gr B
1	1		UPPER RAIL APPROACH TUBE HSS 4 x 4 x 1/25 x 24'-2" w/ 3,500 SLOTS FOR 4" EXP GAP (GALV)	A500 gr B
1	1		UPPER MIDDLE RAIL APPROACH TUBE HSS 8 x 4 x 5/16 x 24'-2.000" (GALV)	A500 gr B
1	1		LOWER MIDDLE RAIL APPROACH 4 x 4 x 1/25 (Galv)	A500 gr B
1	1		LOWER RAIL APPROACH TUBE HSS 4 x 4 x 5/16 x 22'-2.000" w/ 3,500 SLOTS FOR 4" EXP GAP (GALV)	A500 gr B
1	1		BACK PLATE	A36
1	1		END CAP 3/16"x4"x8" w/ 4x 1"x1"x.125" TABS (GALV)	A36
3	3		END CAP 3/16"x4"x4" w/ 4x 1"x1"x.125" TABS (GALV)	A36
1	1		THRIE POST W6x8.5# x 7'-0" (GALV)	A572, Gr 50
1	1		TRANSITION POST W6x8.5# x 7'-0" (GALV)	A572, Gr 50
1	1		STANDARD POST W6x8.5# x 7'-0" (GALV)	A572, Gr 50
1	1		WOOD BLOCK 6" X 8" X 21.5" OFFSET ROUTED	WOOD
1	1		WOOD BLOCK THRIE 6" X 8" X 18" ROUTED FOR TRANSITION POST	WOOD
1	1		WOOD BLOCK 6" X 8" X 14" ROUTED	WOOD
1	1		TERMINAL CONNECTOR 10 Ga. (with slotted holes)	M180 B2
1	1		THRIE TRANSITION PANEL 10 Ga.	M180 B2
31	31		3/4" SLOTTED HEAD BOLT (GALV.) 0.75" DIA. X 6.00" LG. NO SHLDR	A325
20	20		5/8" GUARDRAIL SPLICE BOLT (GALV.) 0.625" DIA. X 1.750" LG. W/ NUT	A307
16	16		3/4" SPACER PIPE 0.750" DIA. (SCH 40) X 0.5" LG.	A53 gr B
64	64		3/4" HEAVY HEX NUT (GALV.) 0.750" DIA.	A563 DH
20	20		5/8" DBL. RECESSED NUT (GALV.) 0.625" DIA.	A563 DH
3	3		3/4" ROUND HEAD BOLT (GALV.) 0.750" DIA. X 2.000" LG.	A307
6	6		POST BOLT 0.625" x 11" x 9.5" HDG (5/8)	A307

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.

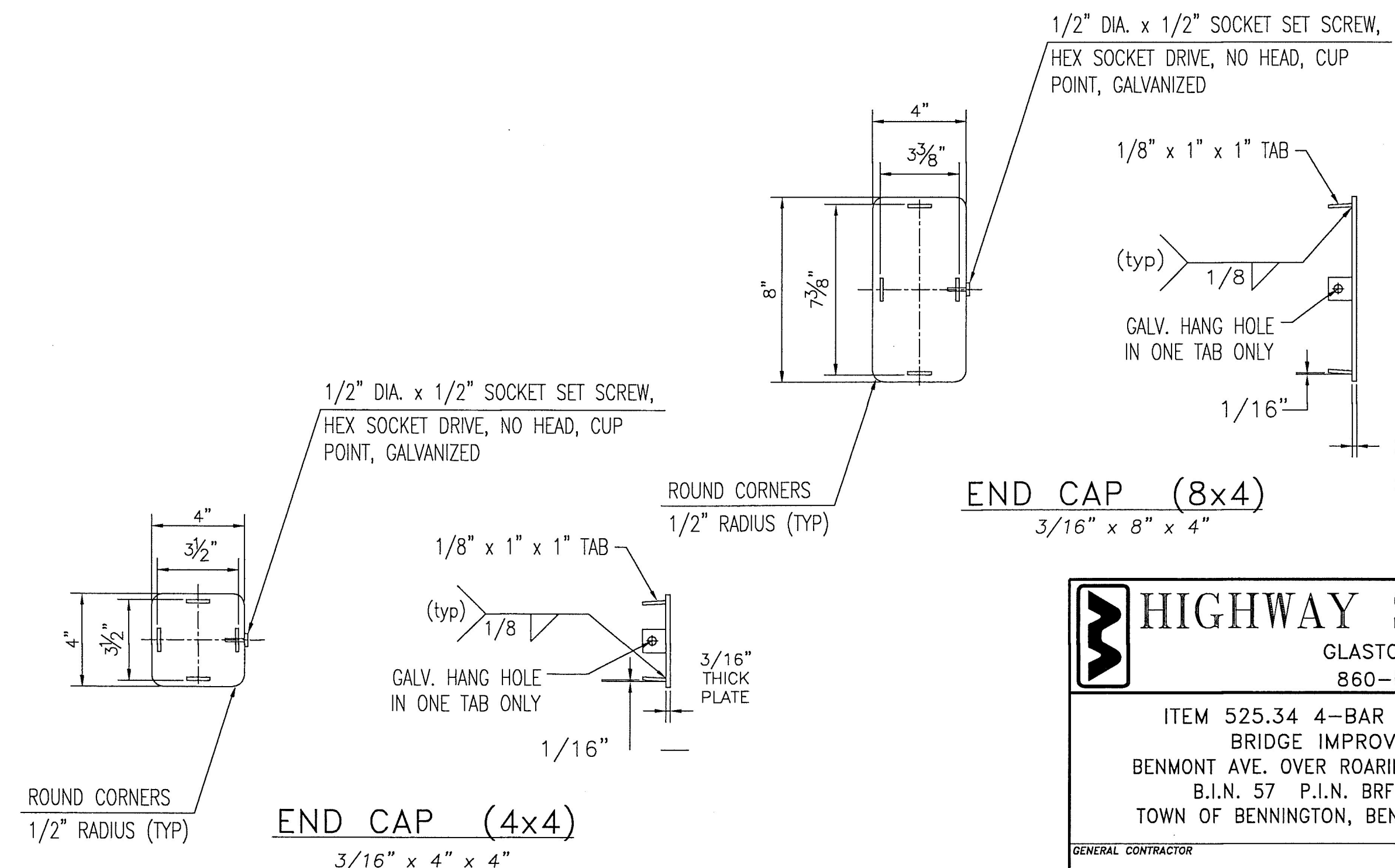
RICK HEBERT
REVIEWER

3/30/2015
DATE

4 RAIL

TOTAL PAY LENGTH ITEM 525.34 = 534 LF

W	E	mk	Description	Spec.
37	37		PED POST W6 x 25 x 3'-6" OAH WITH 1"x10"x14" BASE PLATE (GLV)	A572 gr 50
36	36		SPLICE TUBE FOR 4x4 RAIL (GALV) TS 3x3x5/16 0'-0" LG w/ 2 WELDED NUTS	A500 gr B
12	12		SPLICE TUBE FOR 8x4 RAIL (GALV) TS 7x3x3/8 0'-0" LG w/ 2 WELDED NUTS	A500 gr B
6	6	B1	TUBULAR STEEL RAIL (GLV) HSS 4 x 4 x 1/4 x 18'-3" OAL	A500 gr B
30	30	B2	TUBULAR STEEL RAIL (GLV) HSS 4 x 4 x 1/4 x 22'-2" OAL	A500 gr B
3	3	B3	TUBULAR STEEL RAIL (GLV) HSS 4 x 4 x 1/4 x 11'-2" OAL	A500 gr B
2	2	B1	TUBULAR STEEL RAIL (GLV) HSS 8 x 4 x 5/16 x 18'-3" OAL	A500 gr B
10	10	B2	TUBULAR STEEL RAIL (GLV) HSS 8 x 4 x 5/16 x 22'-2" OAL	A500 gr B
1	1	B3	TUBULAR STEEL RAIL (GLV) HSS 8 x 4 x 5/16 x 11'-2" OAL	A500 gr B
37	37		BR NEOPRENE PAD 0.125 x 10.00 x 14.00	neoprene
37	37		ANCHOR PLATE (GALV) PL .375 x 9.375 x 13.000 w/ 6.250 DIA. CTR HOLE	A36
148	148		ANCHOR STUD 1" DIA. x 12" LG. (GALV)	A449
296	296		HEAVY HEX NUT 1" DIA. (GALV)	A563 DH
148	148		JAMB NUTS 1" DIA. (GALV)	A563 DH
148	148		STANDARD WASHER 1" DIA.	F436
192	192		5/8" HEXHEAD BOLT (GALV.) 0.625" DIA. X 1.750" LG.	A325
296	296		3/4" ROUND HEAD BOLT (GALV.) 0.750" DIA. X 6.000" LG. NO SHLDR W/ TYPE A WASHER	A325
296	296		3/4" HEAVY HEX NUT (GALV.) 1" DIA.	A563 DH
74	74		5/8" HEXHEAD BOLT (GALV.) 0.625" DIA. X 5.5" LG. w/ 2 NUTS & 1 STANDARD WASHER	A325
96	96		5/8" GUARDRAIL SPLICE BOLT (GALV.) 0.625" DIA. X 1.750" LG. W/ NUT	A307



HIGHWAY SAFETY CORP	
GLASTONBURY, CT 860-633-9445	
ITEM 525.34 4-BAR BRIDGE RAIL BRIDGE IMPROVEMENT BENMONT AVE. OVER ROARING BRANCH RIVER B.I.N. 57 P.I.N. BR 1000 (16) TOWN OF BENNINGTON, BENNINGTON COUNTY	
GENERAL CONTRACTOR	HSC JOB NO. 2026
SUB CONTRACTOR	SHEET NO. 5 of 6
DRAWN MKT	CHECKED DATE 2-17-15 SCALE NONE SIZE D