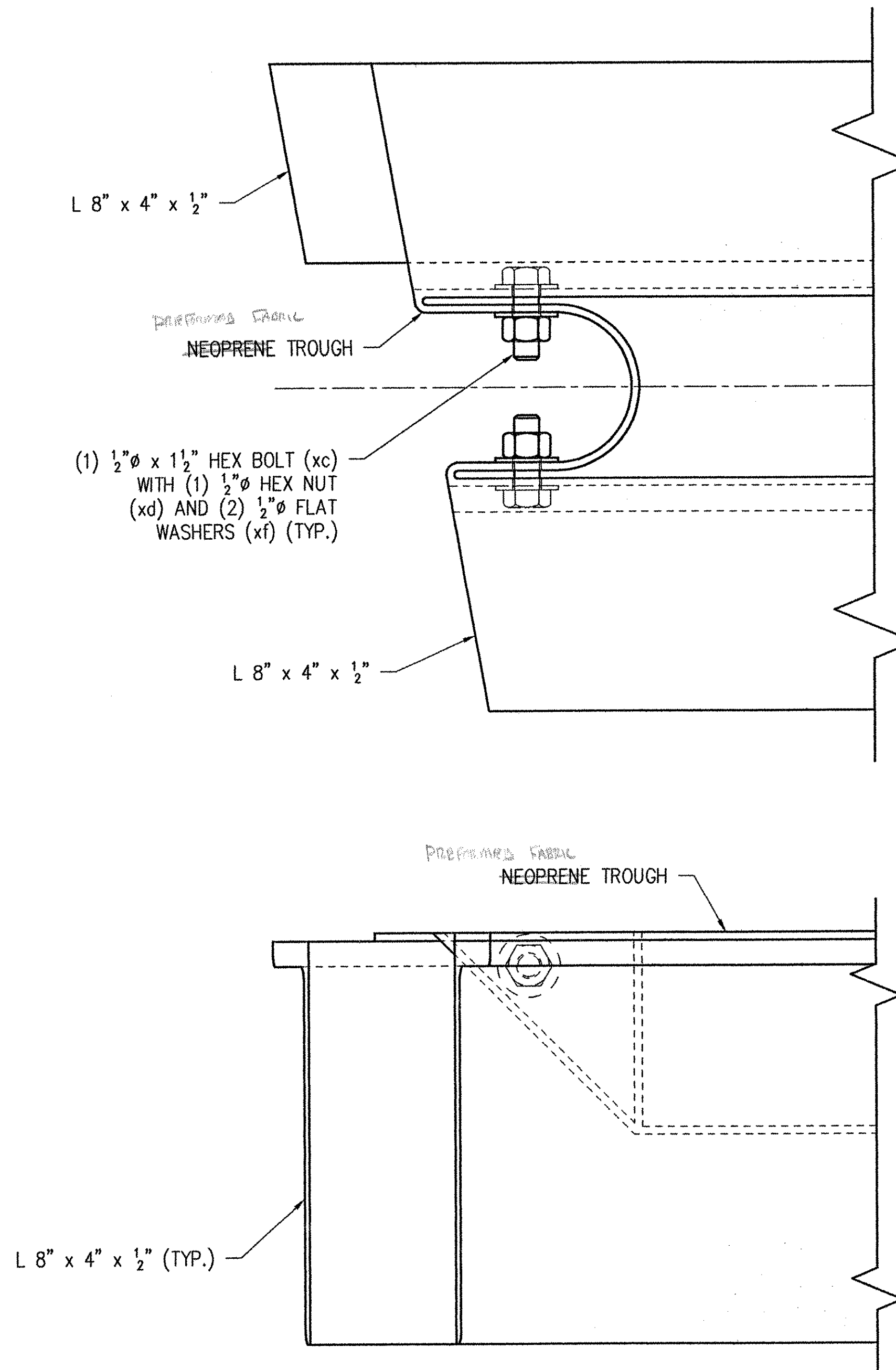


GENERAL NOTES

- ALL MATERIALS AND CONSTRUCTION SHALL CONFORM TO STATE OF VERMONT, AGENCY OF TRANSPORTATION STANDARD SPECIFICATIONS FOR CONSTRUCTION, DATED 1990, AND ITS LATEST REVISIONS, THE AASHTO STANDARD SPECIFICATIONS FOR HIGHWAY BRIDGES, DATED 1996, AND ITS LATEST REVISIONS, AND THE SPECIAL PROVISIONS.
- STEEL SHALL CONFORM TO ASTM A709 GRADE 36 (AASHTO M270 GRADE 36).
- WELDING SHALL MEET THE REQUIREMENTS OF THE ANSI/AASHTO/AWS D1.5 BRIDGE WELDING CODE AS MODIFIED BY STANDARD SPECIFICATIONS.
- FOR STUD REPAIR USE FF-STUD-REP-01 OR SM-STUD-REP-01.
- BOLTS SHALL BE HIGH STRENGTH AND CONFORM TO ASTM A325 (AASHTO M164). ALL FIELD HARDWARE IS TO BE GALVANIZED PER ASTM A153 (AASHTO M232). ALL SHOP HARDWARE IS TO BE GALVANIZED PER ASTM B695 (AASHTO M298 CLASS 50).
- STEEL SHALL BE GALVANIZED PER ASTM A123 (AASHTO M111).
- PREFORMED FABRIC TROUGH SHALL CONFORM TO STATE OF VERMONT, AGENCY OF TRANSPORTATION STANDARD SPECIFICATIONS FOR CONSTRUCTION, DATED 1990, SUB-SECTION 707.07.
- BUTYL RUBBER TAPE SHALL CONFORM TO AASHTO M198 TYPE II.
- SHOP INSPECTION TO BE DONE BY VAOT.
- PRIOR TO GALVANIZING, ALL CORNERS AND EDGES OF STEEL PLATES SHALL BE GROUND TO $\frac{1}{8}$ " RADIUS.
- THE JOINT SHALL BE SHOP ASSEMBLED AND SHIPPED AS ONE UNIT.

12.) SEAL WELD ALL ACCESSABLE JOINTS PRIOR TO GALVANIZING.



FOLDED TROUGH END DETAIL
(TYPICAL @ BOTH ENDS OF TROUGH)

SHOP NOTE:
FOLD NEOPRENE TROUGH AS SHOWN.
DRILL $\frac{9}{16}$ " HOLES THRU AND
FASTEN AS SHOWN WITH $\frac{1}{2}$ "
HARDWARE.

LINE	NO.	DESCRIPTION	LENGTH	MK	REMARKS	PART NO
1	1	EXPANSION JOINT	44'-3 5/16"	1A	HDG	
2	1	L 8" x 4" x 1/2"	9'-0 3/4"	aa1		15-100
3	1	L 8" x 4" x 1/2"	9'-0 3/4"	ab1		15-100
4	1	L 8" x 4" x 1/2"	31'-7 1/16"	ac1		15-100
5	1	L 8" x 4" x 1/2"	31'-9"	ad1		15-100
6	1	L 8" x 4" x 1/2"	3'-6 3/8"	af1		15-100
7	1	L 8" x 4" x 1/2"	3'-7 1/4"	ag1		15-100
8	1	FB 1 1/4" x 5 1/2"	15'-10 7/16"	fa2		16-169
9	1	FB 1 1/4" x 5 1/2"	15'-9 3/8"	fb2		16-169
10	1	FB 1 1/4" x 5 1/2"	15'-9 3/8"	fc2		16-169
11	1	FB 1 1/4" x 5 1/2"	15'-11 1/16"	fd2		16-169
12	1	L 6" x 4" x 1/2"	3'-8 1/4"	aa5	TRIM 6" LEG DOWN TO 5"	15-80
13	1	L 4" x 4" x 1/2"	3'-7 3/8"	ab5		15-67
14	1	R 2" x 8 5/16"	3'-7 3/8"	pa5	SHAPE CUT	19-11
15	1	L 6" x 4" x 1/2"	3'-6 7/8"	aa6	TRIM 6" LEG DOWN TO 5"	15-80
16	1	L 4" x 4" x 1/2"	3'-5 1/16"	ab6		15-67
17	1	R 2" x 8 5/16"	3'-6"	pa6	SHAPE CUT	19-11
18	1	R 1" x 10 3/4"	3'-7 7/16"	pa7	SLIP-NOT GRIP PLATE/SHAPE CUT	
19	1	R 1" x 2"	3'-8"	pb7	SLIP-NOT GRIP PLATE/SHAPE CUT	
20	1	R 1" x 8 1/4"	0'-10 15/16"	pc7		19-11
21	1	R 1" x 4 1/16"	0'-8 3/16"	pd7		19-11
22	1	R 1" x 2 1/16"	0'-8 1/4"	pf7		19-11
23	1	L 6" x 4" x 1/2"	9'-0 3/4"	aa10	TRIM 6" LEG DOWN TO 5"	15-80
24	1	L 4" x 4" x 1/2"	9'-0 3/4"	ab10		15-67
25	1	R 1" x 10 1/2"	8'-11 1/16"	pa10	SHAPE CUT	19-11
26	1	L 6" x 4" x 1/2"	9'-1 1/4"	aa11	TRIM 6" LEG DOWN TO 5"	15-80
27	1	L 4" x 4" x 1/2"	9'-0 3/4"	ab11		15-67
28	1	R 1" x 10 1/2"	9'-1"	pa11	SHAPE CUT	19-11
29	1	R 1" x 10 3/4"	9'-1 1/2"	pa12	SLIP-NOT GRIP PLATE/SHAPE CUT	
30	1	R 1" x 2"	9'-0 15/16"	pb12	SLIP-NOT GRIP PLATE/SHAPE CUT	
31	1	R 1" x 8 1/4"	0'-10 15/16"	pc12		19-11
32	1	R 1" x 4 1/16"	0'-8 3/16"	pd12		19-11
33	1	R 1" x 2 1/16"	0'-8 1/4"	pf12		19-11
34	9	L 4" x 4" x 1/2"	1'-1"	aa13	SHIPPING DEVICE	15-67
35	1	MI 3/4" x 34 5/16"	44'-4 5/16"	na13	3-PLY/SEE NOTE NO. 7	
36	2	MI 1" x 1"	0'-7"	nb13	DRIP BEAD	
37	5	R 1" x 8"	1'-8 1/2"	pa13		19-11
38	5	R 1" x 6"	1'-8 1/2"	pb13	SHAPE CUT	19-11
39	5	R 1" x 8"	0'-10"	pc13		19-11
40	5	R 1" x 6"	0'-10"	pd13	SHAPE CUT	19-11
41	52	FB 3/8" x 3"	0'-3"	ha		16-5
42	18	HB 3/4" x 3 1/2"	A325 HDG	hb	SHIPPING HARDWARE	23-13
43	128	HB 3/4" x 2 1/4"	A325 HDG	hc		23-11
44	15	MB 3/4" x 2" SOKT CTSK	F835 HDG	hd		
45	15	HN 1" x 1" HVY	A563DH HDG	hf		25-
46	94	FW 3/4" x 3/4"	F436 HDG	hg		27-
47	146	MI 1/2" x 1/2" FERRULE LOOP INSERT	ZP	hh	DAYTON/RICHMOND F-42	35-
48	44	WS 3/4" x 10 3/16"	A108	wa		29-1
49	44	WS 3/4" x 10 3/16"	A108	wb	BEND @ 30°	29-1
50	16	WS 3/4" x 7 1/16"	A108	wc		29-1
51	4	MI 1" x 2 1/2" BUTYL RUBBER TAPE	8 YD. ROLL	xa	MCMMASTER CARR #76385A16	
52	1	MI NEVER-SEIZE GREASE		xb		
53	4	HB 1/2" x 1 1/2"	A325 HDG	xc		23-
54	4	HN 1" x 1" HVY	A563DH HDG	xd		25-
55	8	FW 1" x 1"	F436 HDG	xf		27-
56	80	PLATE WASHERS		13B	HDG	
57	80	FB 1" x 3"	A36	0'-3"	13B	16-7
58	45	RB 1" CONT. THRD.	A36	0'-6 1/2"	13C	40 / HDG
59	85	HN 1" x 1" HVY	A563DH HDG	13D	80	25-1
60	20	HB 3/4" x 2 1/4"	A325 HDG	13F	18	23-11

REV.	DESCRIPTION	DATE	INT
	GENERAL REVISION PER APPROVAL	1/3/02	JM

ANY AND ALL BACKCHARGES WILL BE REJECTED UNLESS WRITTEN CONSENT IS GIVEN BY LEWIS ENGINEERING COMPANY PRIOR TO ANY WORK PERFORMED FOR OUR ACCOUNT. SUCH REJECTION MEANS THAT INVOICES WILL NOT BE HONORED OR DEDUCTIONS FROM PAYMENT WILL BE CHARGED BACK.



LEWIS ENGINEERING COMPANY

4201 NOREX DRIVE - CHASKA, MINNESOTA 55318 - (952) 368-3000



PROJECT — ROYALTON / RTE. NO. TH 1, CL 1 BRIDGE NO. 3
STATE PROJECT — AC BRZ 1444(22)
FEDERAL PROJECT —
CUSTOMER — BECK & BELLUCCI, INC.
LOCATION — WINDSOR COUNTY, VT
DESCRIPTION — BILL OF MATERIAL & GENERAL NOTES
ABUTMENT NO. 2

W.P. Chk'd
Drawn By JMB
Chk'd By TSF
Date: 12/5/01

L.E.C. 15 OF 30 SHEET NO. 15 OF 15 Job. No. : 2034.1042.

RECEIVED
CHK'D BY JMB OK'D BY
JAN 11 2002
RESUBMIT BY CPW APPROVED DATE 1/11/02

SHOP	
APPROVAL	
DIST.	
CUST.	
FOR DATE	
PRINTS ISSUED	