



BILL OF MATERIALS										
SHOP BILL							MATERIAL ASTM A709-50 T2 U.N.O.			
LINE	SEQ	SHIPPING	MARK	SHAPE	DESCRIPTION	LENGTH	REMARKS	MATL GRADE	WEIGHT	HEAT NO
		TYPE				ft	in			
1										
2	ONE		M24A		ASSEMBLY					
3	ONE		x31a	C	12 x 20.7	12	5 1/2			FIELD DRILLED
4	ONE		x31c	C	12 x 20.7	12	5 1/2			FIELD DRILLED
5										
6	ONE		x20b	L	5 x3 1/2 x 3/8	1	10			
7	ONE		x20d	L	5 x3 1/2 x 3/8	4	0 7/8			
8										
9	ONE		x22a	PL	3/8 x 21	3	8 13/16			DRILLED
10	ONE		x22b	PL	3/8 x 20 3/4	3	8 13/16			DRILLED
11	ONE		x23a	PL	3/8 x 9 1/2	4	0 1/4			
12	ONE		x23b	PL	3/8 x 9 1/2	4	0 1/4			
13	ONE		x24a	PL	3/8 x 26 3/4	4	0 7/8			
14	ONE		x24b	PL	3/8 x 22 3/8	4	0 7/8			
15	ONE		x25b	PL	3/8 x 22	2	2 3/4			
16	ONE		x25c	PL	3/8 x 22	1	10 5/8			
17	2		x25d	PL	3/8 x 22	2	5 1/2			
18	ONE		x26a	PL	3/8 x 30 7/16	4	1 1/4			
19	ONE		x26b	PL	3/8 x 30 7/16	4	1 1/4			
20										
21	4		x25a	PL	5/8 x 26 3/4	2	10			
22										
23	24		sb7-225	BOLT	7/8 #	2	1/4			field 2w
24	5		sb7-275	BOLT	7/8 #	2	3/4			field 2w
25	15		sb7-25	BOLT	7/8 #	2	1/2			field 1 w 1 bar w
26	48		sb7-275	BOLT	7/8 #	2	3/4			field 1 w 1 bar w
27	6		jb7-2	BOLT	7/8 #	2				field 1 w
28	12		jb7-225	BOLT	7/8 #	2	1/4			field 1 w
29	2		jb7-275	BOLT	7/8 #	2	3/4			field 1 w
30										

NO EXCEPTION TAKEN
 REJECTED
 MAKE CORRECTIONS NOTED
 REVISE AND RESUBMIT
 SUBMIT SPECIFIED ITEM

CHECKING IS ONLY FOR GENERAL CONFORMANCE WITH THE DESIGN CONCEPT OF THE PROJECT AND GENERAL CONFORMANCE WITH THE INFORMATION GIVEN IN THE CONTRACT DOCUMENTS. ANY ACTION SHOWN IS SUBJECT TO THE REQUIREMENTS OF THE PLANS AND SPECIFICATIONS. CONTRACTOR IS RESPONSIBLE FOR DIMENSIONS WHICH SHALL BE CONFIRMED AND CORRELATED AT THE JOB SITE; FABRICATION PROCESSES AND TECHNIQUES OF CONSTRUCTION; COORDINATION OF HIS WORK WITH THAT OF OTHER TRADES AND THE SATISFACTORY PERFORMANCE OF THE WORK.

DATE 4/12/12 BY CHA

PAINT NOTES:
 1. ALL ITEMS THIS SHEET TO RECEIVE UPPER STEEL PAINT SYSTEM PER GN1.
 2. CLEAN AND PRIME BOLTED PARTS PRIOR TO ASSEMBLY.
 3. PRIMER ONLY, WITHIN 3" FROM ALL OPEN HOLES, (A307) SHIPPING BOLTS AND NUTS OR TO NEAREST EDGE OR PERPENDICULAR SURFACE (WHICHEVER IS LESS) UNLESS SPECIFICALLY NOTED OTHERWISE.
 4. ALL TORQUED BOLTS TO RECEIVE COMPLETE PAINT SYSTEM NOTED. NO PAINT ON (A307) SHIPPING BOLTS AND NUTS.

NOTES:
 1. FOR GENERAL NOTES SEE DRAWING GN1.
 2. ALL BOLTS THIS SHEET TO BE FULLY TORQUED UNLESS NOTED AS (A307) SHIPPING BOLTS.
 3. INSTALL WASHER UNDER HEAD OF BOLT AS WELL AS NUT. ADDITIONAL WASHER IS NOT REQUIRED FOR (A307) SHIPPING BOLTS.
 4. ALL HOLES MARKED "x" OR "x" ARE TO BE FIELD DRILLED HOLES. DO NOT SHOP DRILL.

ALL HOLES TO BE PUNCHED U.N.O.
 ALL CHANNEL FLANGES TO BE DRILLED TYP.

- LEGEND:
- CL = CENTERLINE
 - CTR'D = CENTERED
 - C/C = CENTER TO CENTER
 - FLG = FLANGE
 - TOP = TOP
 - BTM = BOTTOM
 - RDHF = RUNNING DIMENSIONS FROM HERE
 - = FIELD BOLTS (QUANTITY) DIAMETER x LENGTH
 - ◇ = ALTERNATE HOLE DIAMETER
 - TYP = TYPICAL
 - N/S = NEAR SIDE
 - F/S = FAR SIDE
 - B/S = BOTH SIDES
 - BTS = BOLT TO SHIP
 - △ SHP'G BOLT = SHIPPING BOLT
 - ◇ SHIP'N BOLT = SHIPPING BOLT
 - D.O.R. = DIRECTION OF ROLL
 - T2 = CHARPY V-NOTCH TESTING REQUIRED
 - F2 = FRACTURE CRITICAL MATERIAL
 - x = FIELD DRILLED HOLE
 - ⊗ = FIELD DRILLED HOLE

ALL DIMENSIONS HAVE BEEN FIELD VERIFIED BY: DATE:

NO.	DATE	BY	REVISION
1	04/04/12	PG	REVISED TO SHIP BOTTEN BELT SPACING CHANGE AND BOLTS REVISED TO A325 BLACK ISSUED FOR FINAL APPROVAL
C	03/15/12	RC	NOTES UPDATED AND BOLTS REVISED TO A325
B	03/05/12	RC	B.O.M. REVISED
A	03/02/12	RC	FOR APPROVAL

STS STEEL, INC.
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DRAWING TITLE
UPPER STEEL (TS2)

PROJECT No. US RT 2 BRIDGE No 24 FEDERAL AID No.
 ENGINEER: CHA
 CUSTOMER: Harrison & Burrows Bridge Constructors, Inc.
 PROJECT: RICHMOND, VT - TRUSS BRIDGE REHAB
 RICHMOND, VT

HOLES: 15/16" U.N.O. PAINT: PER SPEC DATE: 03/01/12
 BOLTS: A325 U.N.O. DR.BY: RC JOB NO. 1156
 WELDS: AWS D1.5 CHK.BY: BH DWG NO. 24