FIELD BOLT LIST						A325 Type 3 BOLTS								
LINE	NO REQ'D.	BOLT DIAM.	BOLT LEN.	BOLTS/CONN.	# OF CONN.	GRIP	THICKNESS OF PCS. CONNECTED						WASH CODE	PIECES CONNECTED AND REMARKS
1														FS1 LN 1 & 3, FS2 LN 1 & 2
2	128	7/8	3 1/4	32	4	1 15/16	1/2	7/8	9/16				1	TOP FLG SPLICE
3	448	7/8	3	112	4	1 1/2	1/2	1/2	1/2				1	WEB SPLICE
4	216	7/8	4 1/2	72	3	3 1/8	3/4	1 1/2	7/8				1	BTM FLG SPLICE U.N.
5	72	7/8	4 1/4	72	1	2 7/8	3/4	1 1/4	7/8				1	BTM FLG SPL FS1 LN 3
6														
7														FS1 LINE 2
8	32	7/8	3 1/4	32	1	1 15/16	1/2	7/8	9/16				1	TOP FLG SPLICE
9	84	7/8	3	84	1	1 1/2	1/2	1/2	1/2				1	WEB SPLICE
10	72	7/8	4 1/2	72	1	3 1/8	3/4	1 1/2	7/8				1	BTM FLG SPLICE
11														
12														FS1 LINE 4
13	32	7/8	3 3/4	32	1	2 5/16	1/2	1 1/4	9/16				1	TOP FLG SPLICE
14	140	7/8	3	140	1	1 1/2	1/2	1/2	1/2				1	WEB SPLICE
15	72	7/8	4 1/4	72	1	2 7/8	3/4	1 1/4	7/8				1	BTM FLG SPLICE
16	4	7/8	3	4	1	1 5/8	3/8	1 1/4					1	FILL @ TOP FLG
17														
18														FS1 LINE 5
19	32	7/8	3 3/4	32	1	2 5/16	1/2	1 1/4	9/16				1	TOP FLG SPLICE
20	112	7/8	3	112	1	1 1/2	1/2	1/2	1/2				1	WEB SPLICE
21	72	7/8	4 1/4	72	1	2 7/8	3/4	1 1/4	7/8				1	BTM FLG SPLICE
22	4	7/8	3	4	1	1 5/8	3/8	1 1/4					1	FILL @ TOP FLG
23														
24														FS2 LINE 3 & 4
25	64	7/8	3 1/4	32	2	1 15/16	1/2	7/8	9/16				1	TOP FLG SPLICE
26	168	7/8	3	84	2	1 1/2	1/2	1/2	1/2				1	WEB SPLICE
27	144	7/8	4 1/4	72	2	2 7/8	3/4	1 1/4	7/8				1	BTM FLG SPLICE
28														
29														FS2 LINE 5
30	32	7/8	3 1/4	32	1	1 15/16	1/2	7/8	9/16				1	TOP FLG SPLICE
31	112	7/8	3	112	1	1 1/2	1/2	1/2	1/2				1	WEB SPLICE
32	72	7/8	4 1/4	72	1	2 7/8	3/4	1 1/4	7/8				1	BTM FLG SPLICE

1: 1 Hard Flat Washer

FIELD BOLT LIST						A325 Type 3 BOLTS								
LINE	NO REQ'D.	BOLT DIAM.	BOLT LEN.	BOLTS/CONN.	# OF CONN.	GRIP	THICKNESS OF PCS. CONNECTED						WASH CODE	PIECES CONNECTED AND REMARKS
33														CF TYPE-C2 (UNPAINTED) TYP U.N.
34	896	7/8	2 1/2	8	112	1	1/2	1/2					1	TOP GUSS TO STIFFENER
35	1120	7/8	2 1/2	10	112	1	1/2	1/2					1	BTM GUSS TO STIFFENER
36														
37														CF TYPE-C3 (UNPAINTED) 17CF1,2,3 & 4
38	32	7/8	3	8	4	1 1/2	1/2	1					1	TOP GUSS TO STIFFENER
39	32	7/8	2 1/2	8	4	1	1/2	1/2					1	TOP GUSS TO STIFFENER
40	40	7/8	3	10	4	1 1/2	1/2	1					1	BTM GUSS TO STIFFENER
41	40	7/8	2 1/2	10	4	1	1/2	1/2					1	BTM GUSS TO STIFFENER
42														
43														LATERAL BRACING (UNPAINTED)
44	366	7/8	2 1/2	6	61	7/8	1/2	3/8					2	LATERAL TO GUSSET

1: 1 Hard Flat Washer
2: 2 Hard Flat Washers

FIELD BOLT LIST						A325-1 GALV BOLTS								
LINE	NO REQ'D.	BOLT DIAM.	BOLT LEN.	BOLTS/CONN.	# OF CONN.	GRIP	THICKNESS OF PCS. CONNECTED						WASH CODE	PIECES CONNECTED AND REMARKS
45														END CF TYPE-C1 (PAINTED)
46	96	7/8	3	12	8	1 1/2	1/2	1					2	TOP GUSS TO STIFFENER
47	96	7/8	2 1/2	12	8	1	1/2	1/2					2	TOP GUSS TO STIFFENER
48	64	7/8	3	8	8	1 1/2	1/2	1					2	BTM GUSS TO STIFFENER
49	64	7/8	2 1/2	8	8	1	1/2	1/2					2	BTM GUSS TO STIFFENER
50														
51														CF TYPE-C2 (PAINTED) 16CF2,4 & 6
52	80	7/8	2 1/2	8	10	1	1/2	1/2					1	TOP GUSS TO STIFFENER
53	100	7/8	2 1/2	10	10	1	1/2	1/2					1	BTM GUSS TO STIFFENER
54														
55														LAT BRACING (PAINTED) 20LB5,18 & 31
56	18	7/8	2 1/2	6	3	7/8	1/2	3/8					2	LATERAL TO GUSSET

1: 1 Hard Flat Washer
2: 2 Hard Flat Washers

FIELD BOLT SUMMARY			2% + 3 ADDED, MIN. 2 EXTRA			
LINE	NO. OF BOLTS	BOLT DIAM.	TYPE	BOLT LEN	ACTUAL COUNT	REMARKS
1	2506	7/8	A325 Type 3	2 1/2	2454	
2	1170	7/8		3	1144	
3	264	7/8		3 1/4	256	
4	68	7/8		3 3/4	64	
5	444	7/8		4 1/4	432	
6	297	7/8	A325 Type 3	4 1/2	288	
7						
8	5122	Hard Flat Washers		for 7/8 ϕ BOLT		
9						
10						
11	368	7/8	A325-1 GALV	2 1/2	358	
12	166	7/8	A325-1 GALV	3	160	
13						
14	879	Hard Flat Washers		for 7/8 ϕ BOLT		
15						
16						
17						

RECEIVED
CK'D BY DV OK'D BY
AUG 26 2002
RESUBMIT APPROVED
BY RRW DATE 9-17-02

REV.	REMARKS	DATE	DWN	CHK	APP	Q.A.	NO.	DIA.	LGT	TYPE	WASHER
	OUT FOR APPROVAL	8-23-02									
	OUT FOR APPROVAL										
	ISSUED TO SHOP										
	FIELD & OFFICE										

MATERIAL: | ELECTRODES: | HOLES: | SHOP BOLTS:

SURFACE PREP. & PAINT:
-STEEL WITHIN 10'-0 ENDS OF GIRDERS SHALL BE PAINTED (SEE GN1)
-ALL OTHER STEEL SHALL BE BLAST CLEANED AND LEFT UNPAINTED.

DESCRIPTION: FIELD BOLTS

JOB: VT RTE 9 OVER THE DEERFIELD RIVER
BRIDGE NO. 25
SEARSBURG, VERMONT
CONTRACTOR: J.A. McDONALD

PROJ NO. PROJ. NHF 010-1(18)

CUSTOMER: VERMONT AGENCY OF TRANSPORTATION

	DRAWN BY	DATE
	VWJ	08/12
	CHKD BY	
	DO	08/16
	APPROV BY	
	SUPERVISOR	W. J. GATTI
	Q.A.	

TENSOR 2241

CASCO BAY STEEL STRUCTURES, INC.
75 SPRING HILL ROAD SACO, MAINE 04072
PHONE (207) 282-7360 FAX. (207) 282-1179

JOB NO. 165 | DRG. NO. E3 | REV. △

603-BR 25-E-3

VWJ Fri Aug 16 16:30:05 EDT 2002 /users/jobs/2241/E3.dwg