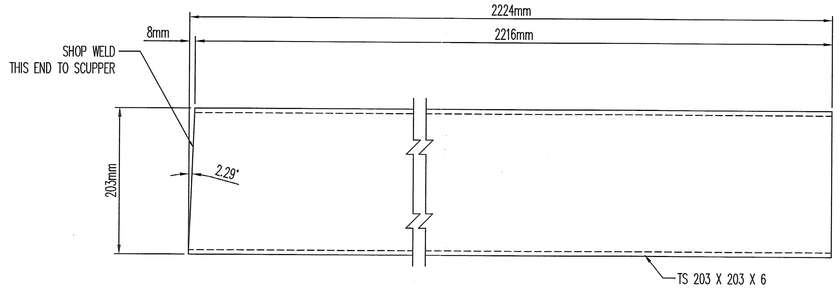
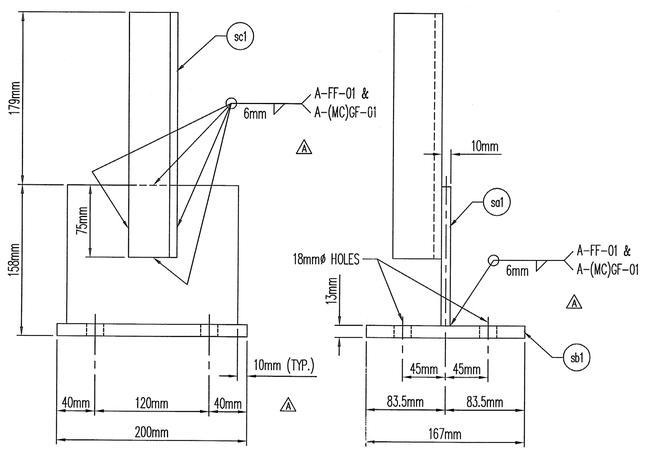


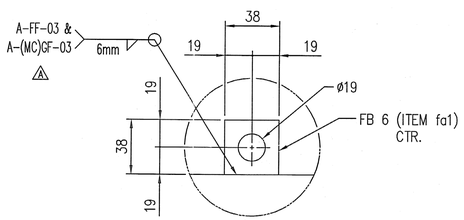
DETAIL (ta1)

MK	QTY.	DESCRIPTION	MATERIAL	LENGTH	REMARKS	PART NO.
1A	22	SCUPPERS			HDG / P (SEE NOTE 8)	
pa1	22	PL 6 X 95	A36	300	SHAPE CUT	19-12
pb1	264	PL 10 X 100	A36	287	SHAPE CUT	19-14
pc1	22	PL 6 X 192	A36	300	SHAPE CUT	19-12
pd1	44	PL 6 X 130	A36	587	SHAPE CUT	19-12
pf1	44	PL 6 X 38	A36	580		19-12
pg1	44	PL 6 X 22	A36	588		19-12
ph1	44	PL 6 X 60	A36	588		19-12
pm1	22	PL 6 X 300	A36	402		19-12
ga1	44	RB 13	A36	580		18-3
wa1	176	WS 19 X 157	A108			29-16
ta1	22	TS 203 X 203 X 6	A500 GR. B	2224		22-35
fa1	44	FB 6 X 38	A36	38		16-27
⚠A 2A	22	SUPPORT ASSEMBLY			HDG / P (SEE NOTE 8)	
⚠A sa1	22	PL 10 X 145	A36	180		19-14
sb1	22	PL 13 X 167	A36	200		19-16
sc1	22	L 51 X 51 X 10	A36	254		15-14
⚠A 2B	22	PL 6 X 105	A36	203	HDG / P (SEE NOTE 8)	19-12
		FIELD HARDWARE:				
2AF	94	HB 16 X 57 HVY	A325 MG		(88) ROCAP	23-310
2BF	94	HN 16	A563DH MG		(88) ROCAP	25-20
2CF	188	FW 16	F436 MG		(176) ROCAP	27-41

MK	QTY.	DESCRIPTION	MATERIAL	LENGTH	REMARKS	PART NO.
		ENGLISH B.O.M. (REF. ONLY)				
1A	22	SCUPPERS			HDG / P (SEE NOTE 8)	
pa1	22	PL 1/4 X 3 3/4	A36	0'-11 13/16	SHAPE CUT	19-12
pb1	264	PL 3/8 X 3 15/16	A36	0'-11 5/16	SHAPE CUT	19-14
pc1	22	PL 1/4 X 7 9/16	A36	0'-11 13/16	SHAPE CUT	19-12
pd1	44	PL 1/4 X 5 1/8	A36	1'-11 1/8	SHAPE CUT	19-12
pf1	44	PL 1/4 X 1 1/2	A36	1'-10 13/16		19-12
pg1	44	PL 1/4 X 7/8	A36	1'-11 1/8		19-12
ph1	44	PL 1/4 X 2 3/8	A36	1'-11 1/8		19-12
pm1	22	PL 1/4 X 11 13/16	A36	1'-3 13/16		19-12
ga1	44	RB 1/2	A36	1'-10 13/16		18-3
wa1	176	WS 3/4 X 6 3/16	A108			29-16
ta1	22	TS 8 X 8 X 1/4	A500 GR. B	7'-3 9/16		22-35
fa1	44	FB 1/4 X 1 1/2	A36	0'-1 1/2		16-27
⚠A 2A	22	SUPPORT ASSEMBLY			HDG / P (SEE NOTE 8)	
⚠A sa1	22	PL 3/8 X 5 11/16	A36	0'-7 1/16		19-14
sb1	22	PL 1/2 X 6 9/16	A36	0'-7 7/8		19-16
sc1	22	L 2 X 2 X 3/8	A36	0'-10		15-14
⚠A 2B	22	PL 1/4 X 4 1/8	A36	0'-8	HDG / P (SEE NOTE 8)	19-12
		FIELD HARDWARE:				
2AF	94	HB 5/8 X 2 1/4 HVY	A325 MG		(88) ROCAP	23-310
2BF	94	HN 5/8	A563DH MG		(88) ROCAP	25-20
2CF	188	FW 5/8	F436 MG		(176) ROCAP	27-41



22 – SUPPORT BRACKET – 2A



DETAIL A

GENERAL NOTES:

1.) MATERIALS AND WORKMANSHIP SHALL BE IN ACCORDANCE WITH THE STATE OF VERMONT AGENCY OF TRANSPORTATION "STANDARD SPECIFICATIONS FOR CONSTRUCTION", 2001 AND ITS LATEST REVISIONS AND AASHTO "STANDARD SPECIFICATIONS FOR HIGHWAY BRIDGES" 17TH EDITION AND ITS LATEST REVISIONS AS MODIFIED BY THE SUPPLEMENTAL SPECIFICATIONS, CONTRACT PLANS, AND THE SPECIAL PROVISIONS.

⚠A 2.) WELDING SHALL COMPLY WITH ANSI/AASHTO/AWS D1.5-2002 BRIDGE WELDING CODE.

3.) SCUPPER PLATES, BARS, AND ANGLES SHALL CONFORM TO AASHTO M270M, GRADE 250 (ASTM-A36) UNLESS NOTED OTHERWISE.

4.) DRAIN TUBE SHALL CONFORM TO ASTM-A500, GRADE B STEEL.

5.) STUD ANCHORS SHALL CONFORM TO ASTM-A108 AND SHALL BE ELECTRIC ARC END-WELDED WITH COMPLETE FUSION. FOR STUD REPAIR, USE WELD PROCEDURE A-SM-STUD-REP-01, A-FF-STUD-REP-01, OR A-(MC)GF-STUD-REP-01 AS REQUIRED.

6.) GALVANIZE ALL STEEL AFTER FABRICATION PER ASTM A123. RADIUS ALL EDGES 2mm FOR GALVANIZING.

7.) REPAIR DAMAGED GALVANIZING IN ACCORDANCE WITH ASTM A780.

⚠B 8.) PAINT:
⚠A EXTERIOR SURFACES OF DRAIN TUBE AND THE SUPPORT ASSEMBLY SHALL BE GIVEN A SHOP APPLIED PAINT SYSTEM AS INDICATED IN SUPPLEMENTAL SPECIFICATION 513, SECTION 513.06(f). SEE PAINT LIMITS ON SHEET 1. OVERSPRAY ALLOWED IN CONCRETE AREAS.
PREPARE SURFACES TO BE PAINTED PER SSPC-SP1 & SSPC-SP7 – BRUSH-OFF BLAST CLEANING, AFTER GALVANIZING.
INTERMEDIATE COAT: GALOSEAL WB 0.5 TO 1.0 mils DFT (12.5 TO 25 um)
FINISH COAT: CARBOTHANE 133 HB OF 3.0 TO 5.0 mils DFT (75 TO 125 um);
FEDERAL STANDARD NO. 595, COLOR NO. 20059 (DARK BROWN).

SHOP DRAWING REVIEW

☑ REVIEWED AS REQUIRED BY THE CONSTRUCTION CONTRACT DOCUMENTS AND APPROVED, BUT ONLY FOR CONFORMANCE TO THE DESIGN CONCEPT OF THE WORK, AND SUBJECT TO FURTHER LIMITATIONS AND REQUIREMENTS CONTAINED IN THE CONSTRUCTION CONTRACT DOCUMENTS.

☐ REJECTED ☐ REVISE AND RESUBMIT ☐ FURNISH AS CORRECTED

CORRECTIONS OR COMMENTS MADE ON THE SHOP DRAWINGS DURING THIS REVIEW DO NOT RELIEVE CONTRACTOR FROM COMPLIANCE WITH REQUIREMENTS OF THE DRAWINGS AND SPECIFICATIONS. THIS CHECK IS ONLY FOR REVIEW OF GENERAL CONFORMANCE WITH THE DESIGN CONCEPT OF THE PROJECT AND GENERAL COMPLIANCE WITH THE INFORMATION GIVEN IN THE CONTRACT DOCUMENTS. THE CONTRACTOR IS RESPONSIBLE FOR: CONFIRMING AND CORRELATING ALL QUANTITIES AND DIMENSIONS; SELECTING FABRICATION PROCESSES AND TECHNIQUES OF CONSTRUCTION; COORDINATING HIS WORK WITH THAT OF ALL OTHER TRADES; AND PERFORMING HIS WORK IN A SAFE AND SATISFACTORY MANNER.

VHB Vanasse Hangen Brustlin, Inc. Engineers, Planners, and Scientists Six Bedford Farms, Kilton Rd. Bedford, NH 03110 603 644 0888

Job Number: 50911
Reviewed By: BJH
Date: 7-7-05

REV.	DESCRIPTION	DATE	DET.	CKD.
⚠B	REVISED PAINT NOTES	07/5/05	BLB	JEB
⚠A	MODIFIED WELDS, BRACKET PLATE, & GENERAL NOTES	06/21/05	RES	JEB

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DSBROWN.COM

	ITEM	QUANTITY
LOCATION — VT 78 OVER MISSISQUOI BAY	–	–
BRIDGE — 2	–	–
PROJECT NO. — BRF 036-1 (1)	–	–
CITY — ALBURG AND SWANTON	–	–
P.O. NO. — P078559 MIS	–	–
DESIGNER — VANASSE HANGEN BRUSTLIN, INC.	–	–
CUSTOMER — CIANBRO CORPORATION	–	–
	–	–

DESCRIPTION: SCUPPER DETAILS
COUNTIES OF GRAND ISLE AND FRANKLIN, VERMONT

SCALE:	DRAWN BY:	CHECKED BY:	DATE:	BRIDGE SHEET:
N.T.S.	RES	JEB	03-24-05	3 OF 3

PROJECT NUMBER	PRODUCT CODE	RELEASE	SHEET
12244	1235	1	3