

Vermont Agency of Transportation

RECEIVED

ON: December 19, 2013

and Checked for

CONFORMANCE

BY: Jennifer Fitch DATE: 12/23/2013

AASHTO M251 & LRFD TOLERANCE TABLE

DESCRIPTION	TOLERANCE
ELASTOMERIC BEARING DESIGN THICKNESS > 1.250"	+1/4", -0"
ELASTOMERIC BEARING PLAN ≤ 36"	+1/4", -0"
ELASTOMERIC COVER TOP & BOTTOM	+1/8", -0"
ELASTOMERIC COVER SIDES	+1/8", -0"
POSITION OF EXPOSED CONNECTION MEMBERS	±1/8"
THICKNESS OF INDIVIDUAL LAYERS OF ELASTOMER (LAMINATED BEARINGS ONLY) AT ANY POINT WITHIN THE BEARING	±1/8"
VARIATION FROM A PLANE PARALLEL TO THE THEORETICAL SURFACE (AS DETERMINED BY MEASUREMENTS AT THE EDGE OF THE BEARINGS)	
TOP	±0.005 RAD
SIDES	±1/4"
PLATE PLAN DIMENSIONS	±1/4"
PLATE THICKNESS	±1/16"
PLATE SURFACE FLATNESS: BEARING SIDE	CLASS A *
PLATE SURFACE FLATNESS: OPPOSITE SIDE	CLASS A
PLATE BEVEL SLOPE	±0.002 RAD
HOLE SIZE & LOCATION	±1/16"

* ONLY FOR SURFACES IN CONTACT WITH THE BEARING

FLATNESS TOLERANCE	
CLASS	X NOM. DIM.
A	0.001
B	0.002
C	0.005

GENERAL NOTES:

- MATERIALS SHALL CONFORM TO STATE OF VERMONT, AGENCY OF TRANSPORTATION STANDARD SPECIFICATIONS FOR CONSTRUCTION, DATED 2011 AND THE LATEST REVISIONS, INCLUDING SUPPLEMENTARY SPECIFICATIONS, CONTRACT PLANS, AND THE SPECIAL PROVISIONS. GENERAL SHOP PRACTICES, STRUCTURAL FABRICATION AND ASSEMBLY SHALL BE GOVERNED BY ANSI/AASHTO/AWS D1.5 BRIDGE WELDING CODE.
- THESE SHOP DRAWINGS ARE PREPARED IN ACCORDANCE WITH THE CONTRACT PLANS AND SPECIFICATIONS. THE D.S. BROWN COMPANY DOES NOT ACCEPT LIABILITY FOR THE DESIGN OF THE PRODUCTS DETAILED IN THESE SHOP DRAWINGS.
- THE D.S. BROWN COMPANY TO SUPPLY ONLY THE PARTS SHOWN ON THESE DRAWINGS.
- ALL STEEL SHALL BE PRODUCED IN THE UNITED STATES OF AMERICA.
- ALL CORNERS AND EDGES OF STEEL PLATES SHALL BE GROUND TO A 1/16" RADIUS.
- BEARINGS SHALL BE TESTED IN ACCORDANCE WITH THE SPECIAL PROVISIONS.
- ALL EXTERNAL STEEL SHALL BE GALVANIZED IN ACCORDANCE WITH ASTM A123 SPECIFICATIONS. IN ACCORDANCE WITH SECTION 726.08 OF THE STANDARD SPECIFICATIONS, REPAIR DAMAGED HOT DIPPED GALVANIZING PER ASTM A780, ANNEX A2. THE PAINT USED IN THE REPAIR SHALL BE ORGANIC-ZINC, CONTAINING 92% MINIMUM ZINC BY WEIGHT IN THE DRY FILM. THE PAINT SHALL BE APPLIED PER MANUFACTURER'S RECOMMENDATIONS TO A THICKNESS EQUIVALENT TO THE SURROUNDING GALVANIZING.
- GALVANIZATION LIFTING DEVICES MAY BE WELDED TO PARTS IF NECESSARY. WHEN THEIR USE IS COMPLETE, REMOVE AND GRIND FLUSH ALL CONNECTION LOCATIONS. REPAIR AREA PER ASTM A780, ANNEX A2.
- (IF APPLICABLE) WELDING PROCEDURES SHALL BE ESTABLISHED BY THE CONTRACTOR TO RESTRICT THE TEMPERATURE TO A MAXIMUM OF 200°F (93°C) FOR SURFACES IN CONTACT WITH THE ELASTOMER. TEMPERATURES SHALL BE DETERMINED BY TEMPERATURE INDICATING WAX PENCILS OR OTHER SUITABLE MEANS APPROVED BY THE ENGINEER.

MARKING NOTES:

- ALL BEARINGS SHALL BE MARKED WITH BEARING LOCATION AND DIRECTION ARROW THAT POINTS UP STATION. ALL MARKS SHALL BE PERMANENT AND SHALL BE VISIBLE AFTER THE BEARING IS INSTALLED.

SHOP DRAWING REVIEW	
<input checked="" type="checkbox"/> 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.	<input type="checkbox"/> REJECTED
<input type="checkbox"/> 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 CORRECTING 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.	<input type="checkbox"/> REUSE AND RESUBMIT
<input type="checkbox"/> FURNISH AS CORRECTED	<input type="checkbox"/> FURNISH AS CORRECTED
VHB Vanassee Hangen Brustlin, Inc.	Job Number: 57438.00 Reviewed By: C.S. Goodrich Date: 12/20/13

REV.	DESCRIPTION	DATE	DET.	CKD.



D.S. BROWN
A GIBRALTAR INDUSTRIES COMPANY

THE D.S. BROWN COMPANY
300 E. CHERRY STREET
NORTH BALTIMORE, OHIO 45872
419.257.3561
FAX: 419.257.0332
WWW.DSBROWN.COM

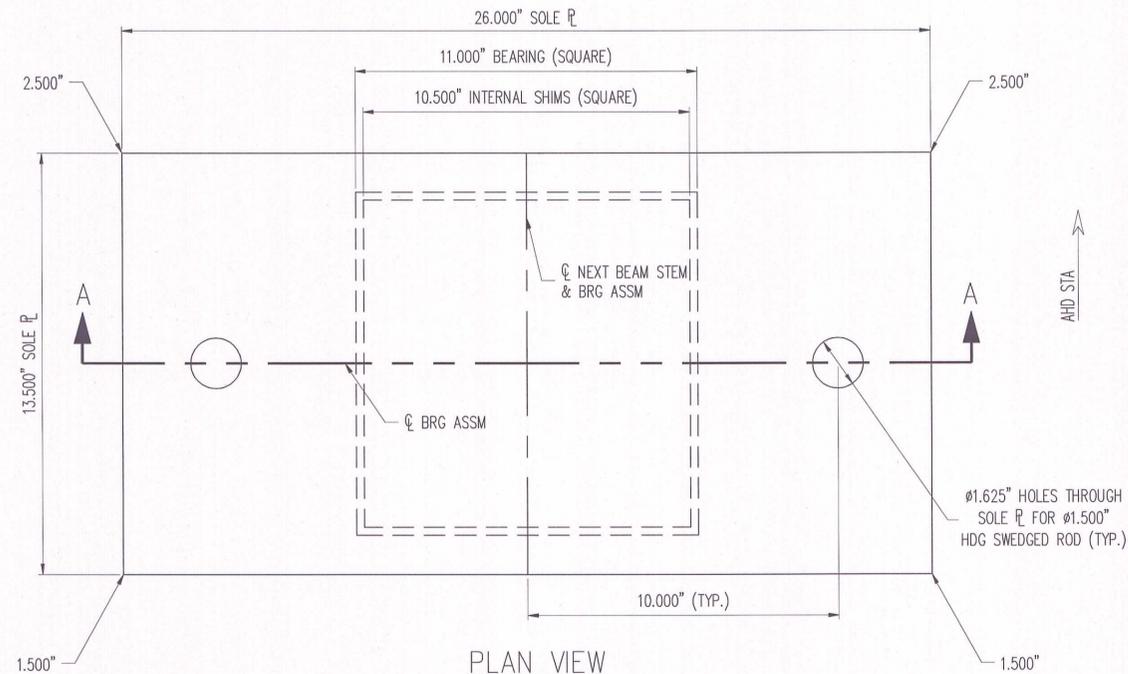


LOCATION — VT ROUTE 125	ITEM	QUANTITY
BRIDGE — NO. 13	—	—
PROJECT NO. — RS 0174 (8)	—	—
PROJECT NAME — MIDDLEBURY	—	—
—	—	—
DESIGNER — VANASSE HANGEN BRUSTLIN, INC.	—	—
CUSTOMER — T BUCK CONSTRUCTION, INC.	—	—
—	—	—
—	—	—

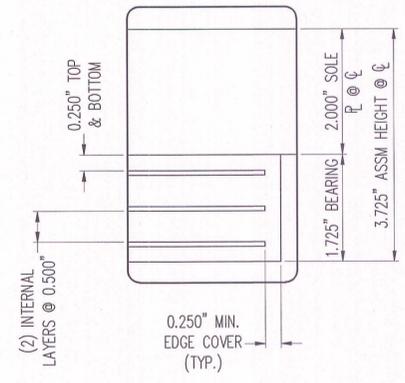
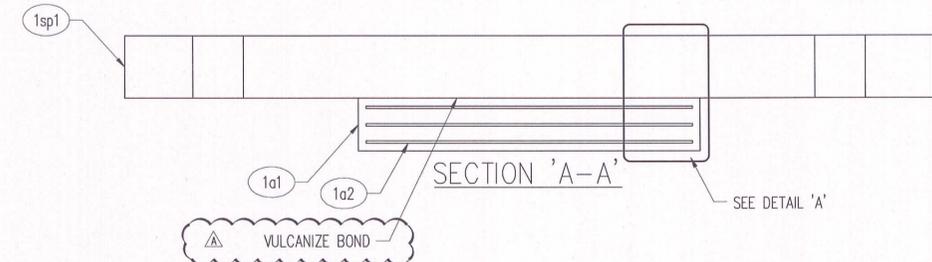
DESCRIPTION: GENERAL NOTES ADDISON CO., VT	SCALE: N.T.S.	DRAWN BY: SP	CHECKED BY: M.J.G.	DATE: 11/13	—
	PRODUCT NUMBER: 42253	PRODUCT CODE: 1104	RELEASE: —	SHEET: GN1	

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MK	QTY	DESCRIPTION	MATERIAL	LENGTH	REMARKS	WT*	REV
1A	6	ELASTOMERIC BEARING				264	A
1a1	6	1.725" X 11.000"	NATURAL RUBBER	11.000"	60+/-5 DURO GR.4	8	A
1a2	18	14 GA. X 10.500"	A1011 GR 36	10.500"	PLAIN	2	A
1sp1	6	2.500" X 26.000"	M270 GR 50 (A709)	13.500"	M111-HDG (A123)	249	A
1B	2	SAMPLE BEARINGS				15	A
1a1	2	1.725" X 11.000"	NATURAL RUBBER	11.000"	60+/-5 DURO GR.4	8	A
1a2	6	14 GA. X 10.500"	A1011 GR 36	10.500"	PLAIN	2	A
1C	12	SWEDGED ROD				11	
1ar1	12	Ø1.500" X 22.000" SWEDGED ROD	M314 GR 36 (F1554)		5" THRD, 14" SWEDGED; M232-HDG (A153)	11	
1D	12	HEAVY HEX NUT				1	
1hn1	12	Ø1.500" HEX NUT	M291-DH OR M292-2H (A563 OR A194) HEAVY HEX		M232-HDG (A153), DRY LUBE & DYE	1	
1F	12	PLATE WASHER				2	
1pw1	12	0.597" X 3.000"	M183 (A36)	3.000"	Ø1.625" HOLE CENTERED; M111-HDG (A123)	2	
*Approx. Gross Wt. Lbs Per Single Unit							
						12/18/13 10:44:20 AM	

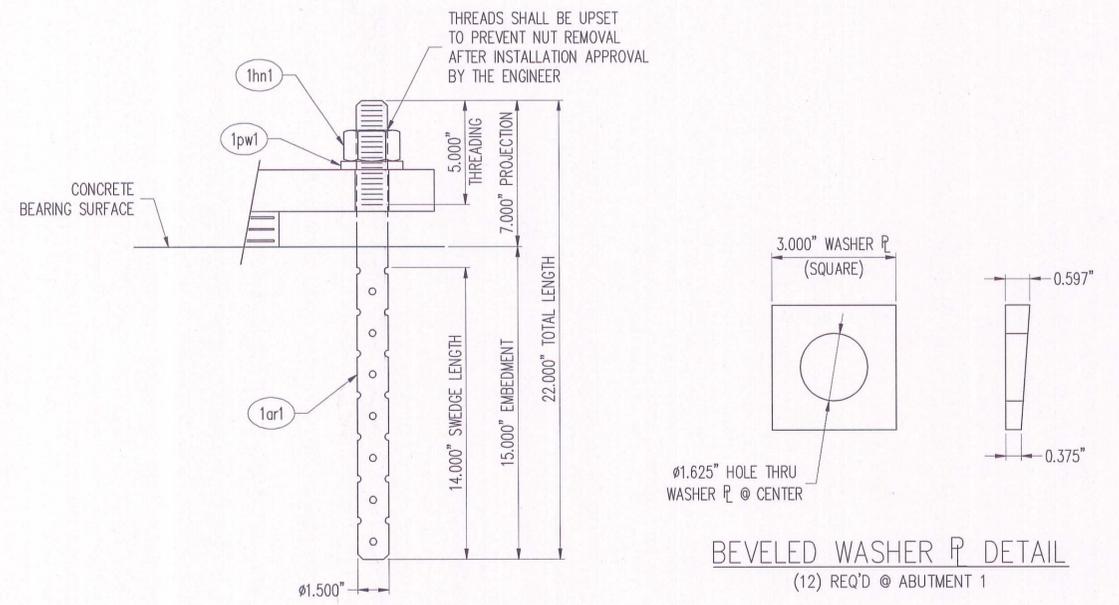


- PLAN VIEW
- (1) REQ'D @ ABUTMENT 1 NEXT BEAM 1, STEM 2
 - (2) REQ'D @ ABUTMENT 1 NEXT BEAM 2, STEMS 1 & 2
 - (2) REQ'D @ ABUTMENT 1 NEXT BEAM 3, STEMS 1 & 2
 - (1) REQ'D @ ABUTMENT 1 NEXT BEAM 4, STEM 1
 - (2) SAMPLE BEARINGS W/O EXT. STEEL REQ'D



DETAIL 'A'

LOAD DATA	
MAX DL REACTION (KIPS)	51.5
MAX LL REACTION (KIPS)	50.5
MAX DL+LL REACTION (KIPS)	102.0



ANCHOR ROD ASSEMBLY
 (12) REQ'D @ ABUTMENT 1

SEE SHEET 42253-1104-GN1 FOR GENERAL NOTES

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.

Job Number: 57438.00
 Reviewed By: G.S. Goodrich
 Date: 12/20/13

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REVISION	DESCRIPTION	DATE	DET.	CKD.
1	REVISE BRGS TO VULCANIZE BOND, BOM, STEEL GRADE	12/18/13	SP	MJG

LOCATION	ITEM	QUANTITY
VT ROUTE 125 BRIDGE - NO. 13	-	-
PROJECT NO. - RS 0174 (8)	-	-
PROJECT NAME - MIDDLEBURY	-	-
DESIGNER - VANASSE HANGEN BRUSTLIN, INC.	-	-
CUSTOMER - T BUCK CONSTRUCTION, INC.	-	-

DESCRIPTION	SCALE	DRAWN BY	CHECKED BY	DATE
VERSIFLEX ELASTOMERIC BEARING ADDISON CO., VT	N.T.S.	SP	MJG	11/13

PROJECT NUMBER	PRODUCT CODE	RELEASE	SHEET
42253	1104	-	1

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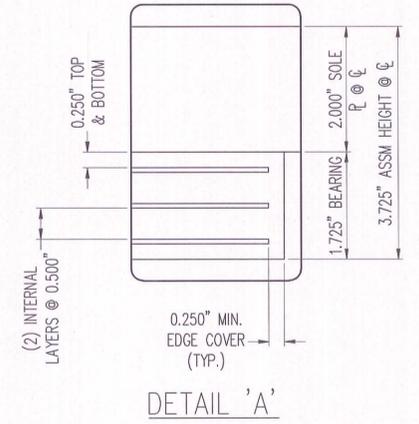
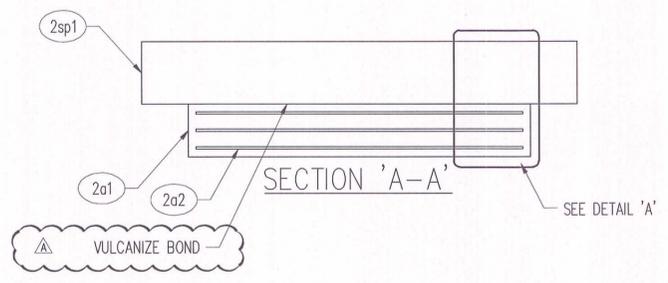
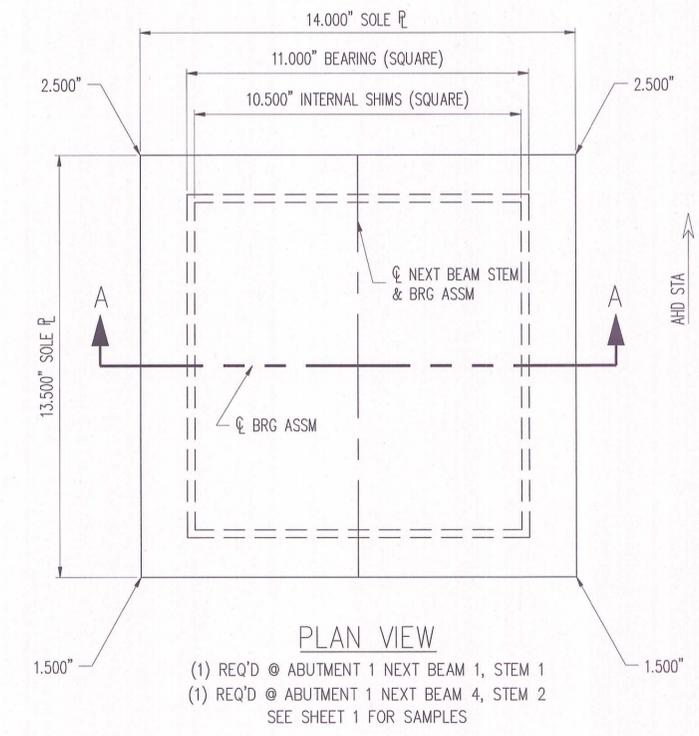
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2A	2	ELASTOMERIC BEARING				149	A
2a1	2	1.725" X 11.000"	NATURAL RUBBER	11.000"	60+/-5 DURO GR.4	8	A
2a2	6	14 GA. X 10.500"	A1011 GR 36	10.500"	PLAIN	2	A
2sp1	2	2.500" X 14.000"	M270 GR 50 (A709)	13.500"	M111-HDG (A123)	134	
*Approx. Gross Wt. Lbs Per Single Unit							
						12/18/13 10:44:20 AM	



LOAD DATA	
MAX DL REACTION (KIPS)	51.5
MAX LL REACTION (KIPS)	50.5
MAX DL+LL REACTION (KIPS)	102.0

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LOCATION	BRIDGE	PROJECT NO.	PROJECT NAME	DESIGNER	CUSTOMER	ITEM	QUANTITY
VT ROUTE 125	NO. 13	RS 0174 (B)	MIDDLEBURY	VANASSE HANGEN BRUSTLIN, INC.	T BUCK CONSTRUCTION, INC.	-	-

DESCRIPTION	SCALE	DRAWN BY	CHECKED BY	DATE	RELEASE	SHEET
VERSIFLEX ELASTOMERIC BEARING ADDISON CO., VT	N.T.S.	SP	MJG	11/13	-	-
	42253	1104	-	-	-	2

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