

**GENERAL NOTES**

**CONSTRUCTION SPECIFICATIONS**

1. ALL MATERIAL AND CONSTRUCTION TO BE IN ACCORDANCE WITH THE STATE OF VERMONT AGENCY OF TRANSPORTATION STANDARD SPECIFICATIONS FOR CONSTRUCTION (2011) WITH ITS LATEST REVISIONS, AND THE AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS, 5TH EDITION (2010) WITH ITS LATEST REVISIONS.

**MATERIAL SPECIFICATIONS**

1. ALL STRUCTURAL STEEL TO BE UNPAINTED AASHTO M270 (ASTM A709) GRADE 50W, UNLESS NOTED.
2. MATERIAL NOTES "T2" ON DETAIL DRAWINGS SHALL BE CHARPY V-NOTCH TESTED IN ACCORDANCE WITH THE REQUIREMENTS OF VERMONT STANDARD SPECIFICATIONS SECTION 714.01.
3. HIGH STRENGTH BOLTS SHALL BE 7/8" DIAMETER, ASTM A325 (TYPE 3), IN 15/16" DIAMETER HOLES. NUTS SHALL BE A563 (TYPE 3) GRADE C3, AND WASHERS SHALL BE F436 (TYPE 3).

BOLTS & NUTS SHALL BE ROTATIONAL CAPACITY TESTED. DO NOT MIX BOLTS & NUTS FROM DIFFERENT CONTAINERS UNLESS ALL BOLTS & NUTS HAVE THE SAME LOT NUMBER.

**FABRICATION**

1. ALL HOLES SHALL BE DRILLED FULL SIZE, UNLESS NOTED.

**WELDING**

1. THE CONFIGURATION OF THE WELD JOINTS AND ALL WELDING PROCEDURES SHALL BE IN ACCORDANCE WITH AASHTO/AWS D1.5-10 BRIDGE WELDING CODE; IN ADDITION TO THE PROVISIONS OF VERMONT STANDARD SPECIFICATIONS SECTION 506.10. ALL WELDING WILL BE DETAILED TO PRE-QUALIFIED JOINTS, UNLESS PROHIBITED BY THE DESIGNER.
2. WELDING OF MAIN LOAD CARRYING MEMBERS AND ATTACHMENTS SHALL BE PERFORMED USING THE AUTOMATIC SUBMERGED ARC & SHIELDED METAL ARC PROCESSES. SUBMERGED ARC WELDS, WHERE USED, ARE SUBJECT TO TESTING REQUIREMENTS OF AWS D1.5, SECTION 5. ALL WELDS ARE CONTINUOUS, UNLESS NOTED.
3. NON-DESTRUCTIVE TESTING OF WELDS SHALL BE IN ACCORDANCE WITH THE REFERENCED SPECIFICATION.
4. SEE DETAIL "WS1" FOR THE WELD TERMINATION DETAIL.

**FIELD CONNECTIONS**

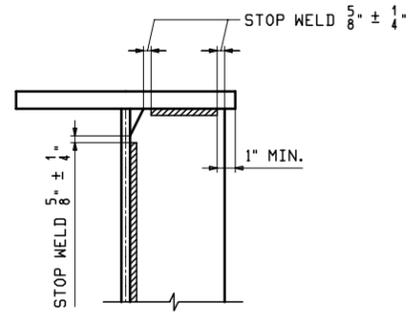
1. ALL FIELD CONNECTIONS SHALL BE MADE WITH 7/8" DIAMETER HIGH STRENGTH A325 BOLTS, INSTALLED PER SECTION 506.19(c).
2. BOLTS SHALL HAVE A HEAVY HEX HEAD, HEAVY HEX NUT, AND AT LEAST ONE HARD FLAT WASHER EACH. WASHER TO BE PLACED UNDER THE TURNED ELEMENT.
3. PIECE MARKS WILL BE LOCATED AS SHOWN ON SHEET E1.

**CLEANING**

1. ALL STEEL SHALL BE BLAST CLEANED IN ACCORDANCE WITH SSPC SP-10.

**PAINTING**

1. STRUCTURAL STEEL SHALL BE UNPAINTED.



DETAIL "WS1"  
STIFF. WELD TERMINATION

Vermont Agency of Transportation  
**RECEIVED**  
 ON: **January 29, 2014**  
 and Checked for  
**CONFORMANCE**  
 BY: **Rob Young** DATE: **02/18/2014**

<input checked="" type="checkbox"/> Reviewed	<input type="checkbox"/> Furnish As Corrected
<input type="checkbox"/> Rejected	<input type="checkbox"/> Revise and Resubmit

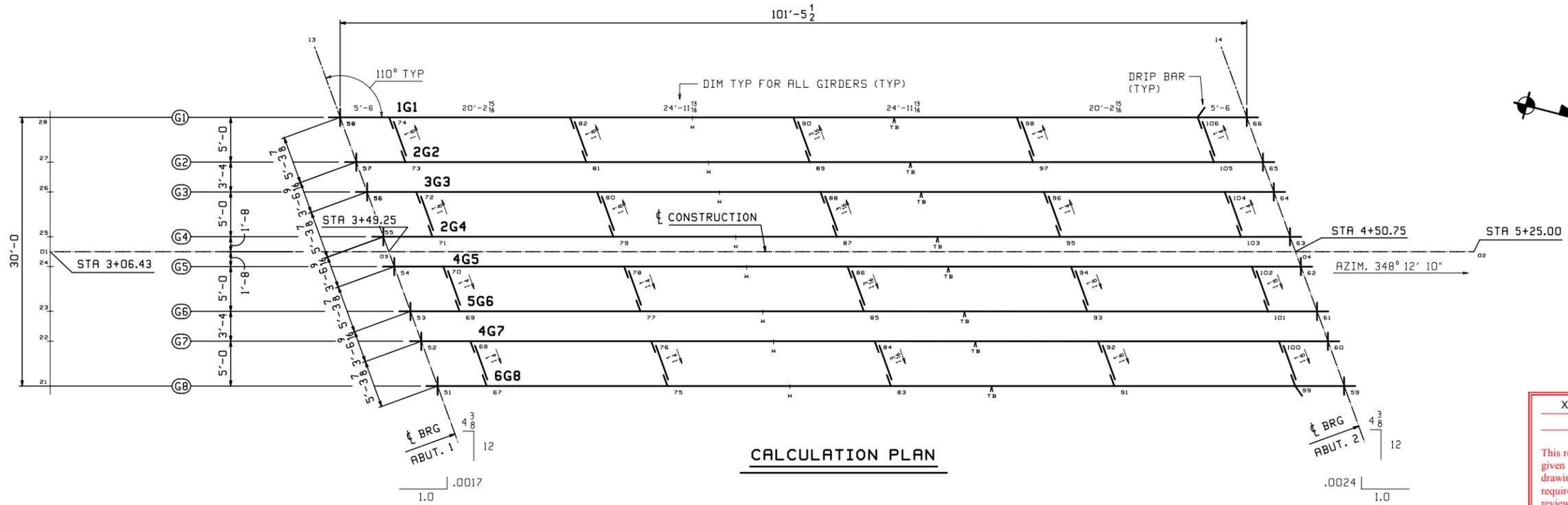
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Date February 12, 2014  
 By D. Kull

NOTE TO ENGINEER:  
 THESE NOTES ARE NOT INTENDED TO BE ALL INCLUSIVE AND COMPLIANCE WITH RELEVANT SPECIFICATIONS REMAIN UNCHANGED.

0						
REV.	DATE	REMARKS	DWN	CHK	APVL	SHOP
MATERIAL:		SURFACE PREP. & PAINT:		HOLES:		SHOP BOLTS:
DESCRIPTION: GENERAL NOTES						
CASCO BAY STEEL STRUCTURES, INC. 1 WALLACE AVE. PHONE (207) 780-6722 SOUTH PORTLAND, ME 04106 FAX. (207) 780-6726						
STRUCTURE: VT ROUTE 100 (MINOR ARTERIAL) OVER MAD RIVER BRIDGE NO. 166 WARREN COUNTY OF WASHINGTON			DRAWN: CRK	DATE: 01/07		
			CHKD: DO	DATE: 01/08		
LOCATION: TOWN OF WARREN			JOB NO.	DWG NO.		
PROJ NO. BRF 013-4(32)			<b>548</b>		<b>GN1</b>	
CUSTOMER: VT AOT					REV.	





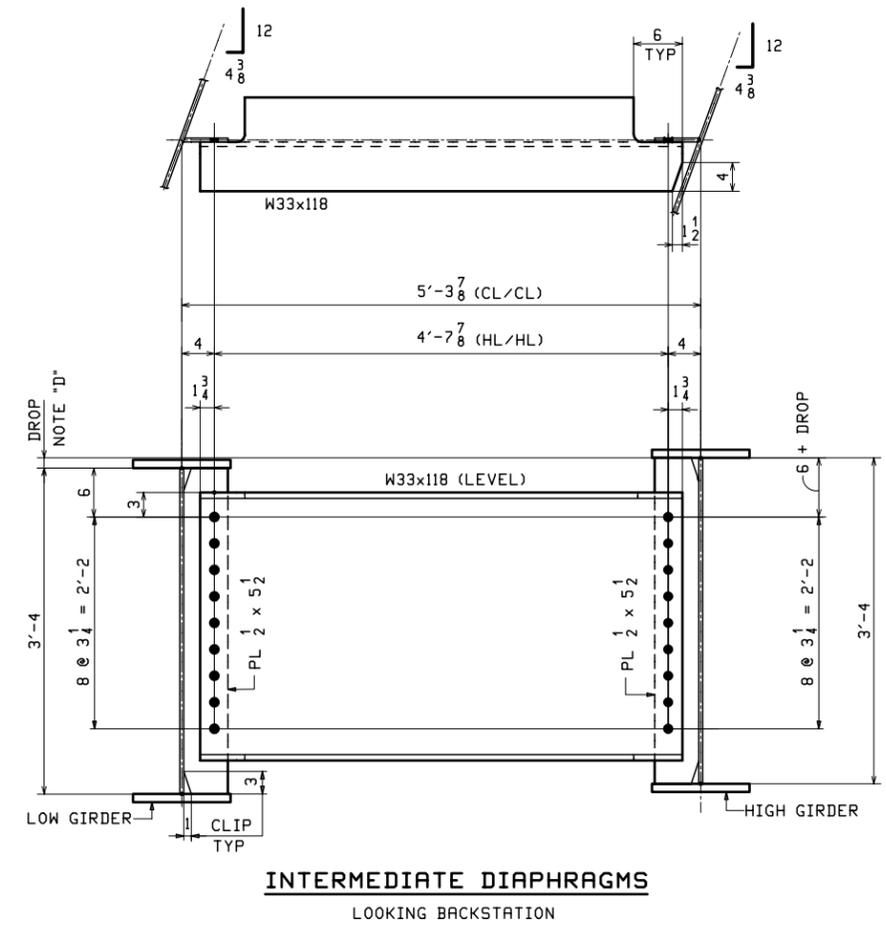
- NOTES:
1. LONGITUDINAL DIMENSIONS ARE SLOPING ALONG BOTT OF WEB WITH CORRECTIONS MADE FOR VERTICAL CURVE, GRADE & DL CAMBER (UN).
  2. TRANSVERSE DIMENSIONS ARE IN A HORIZ. PLANE (UN).
  3. DROP ARROW POINTS TOWARDS LOW END OF MEMBER.
  4. ENDS OF GIRDERS ARE VERTICAL AFTER DL ROTATION.
  5. ALL INT. CROSSFRAMES ARE NORMAL TO GRADE.
  6. BOTT PT NUMBERS = TOP PT NUMBERS + 500.
  7. CROSSFRAME DROPS ARE CALCULATED IN THEIR FINAL POSITION.

X	Reviewed	Furnish As Corrected
	Rejected	Revise and Resubmit

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**CALCULATION PLAN**



- NOTES:
1. BOLTS SHALL BE 7/8" A325-3 (UN).
  2. HOLES SHALL BE 15/16" (UN).
  3. ALL MATERIAL M270 GRADE 50W.
- NOTE D:  
DROPS VARIES IN MAGNITUDE & DIRECTION.  
SEE CALCULATION PLAN (THIS SHEET) FOR VALUES.

\*\* NOTE \*\*  
THE PURPOSE OF THIS DRAWING IS TO COORDINATE GEOMETRIC CONTROL INFORMATION. THIS DWG IS SUBMITTED FOR INFORMATION ONLY AND IS NOT INTENDED FOR SHOP FABRICATION.

REV.	DATE	REMARKS	DWN	CHK	APVL	SHOP
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		MATERIAL: AS NOTED				SHOP BOLTS: NONE
		SURFACE PREP. & PAINT: SEE GNI				
		HOLES: AS NOTED				
DESCRIPTION: CALCULATION PLAN & TYPICAL LAYOUTS						
CASCO BAY STEEL STRUCTURES, INC. 1 WALLACE AVE. SOUTH PORTLAND, ME 04106 PHONE (207) 780-6722 FAX. (207) 780-6726						
STRUCTURE: VT ROUTE 100 (MINOR ARTERIAL) OVER MAD RIVER BRIDGE NO. 166 WARREN COUNTY OF WASHINGTON				DRAWN: CRK	DATE: 12/10	
				CHKD: DO	DATE: 1/6	
LOCATION: TOWN OF WARREN			JOB NO. 548		DWG NO. WS1	
PROJ NO. BRF 013-4(32)					REV. 1	
CUSTOMER: VT AOT						

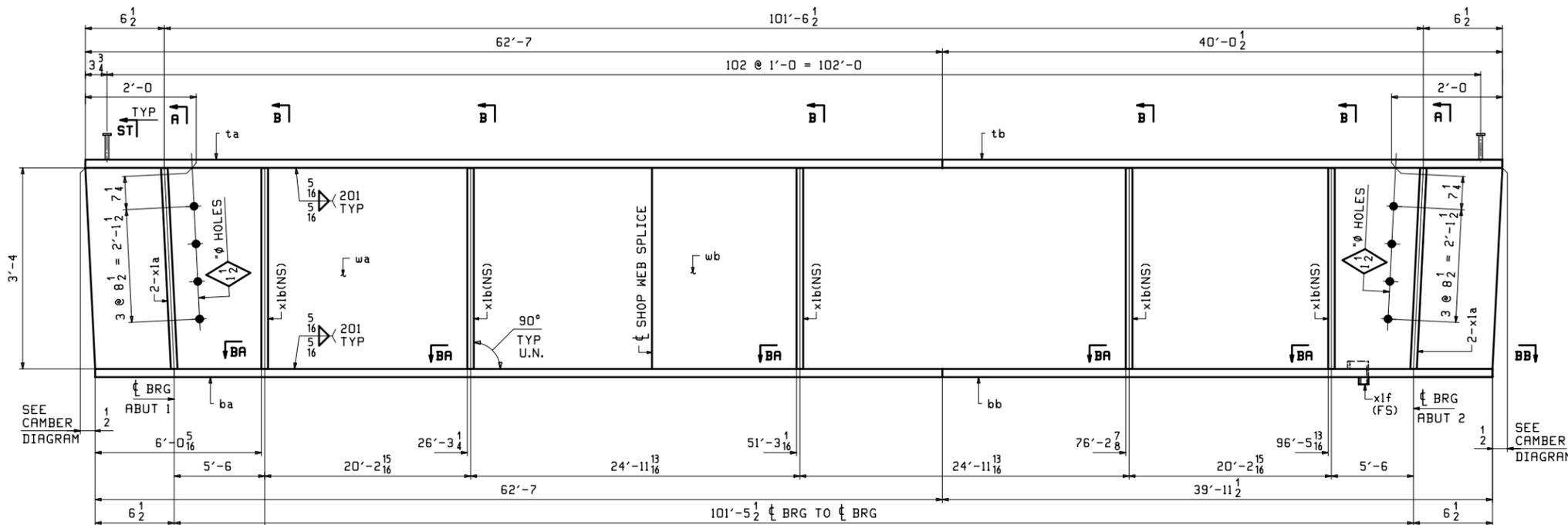
Vermont Agency of Transportation  
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**CONFORMANCE**  
BY: **Rob Young** DATE: **02/18/2014**

C:\Users\jyoung\Documents\2014\1661\1661.dwg



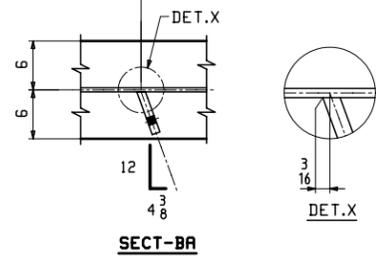
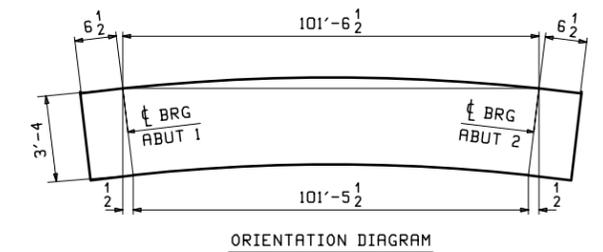
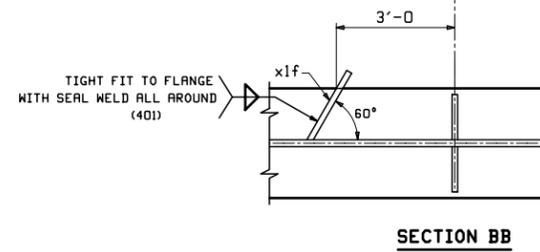
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1	E	1	wb		PL 1/2x40	62 7 1/2	M270-50WT2	4262	
1	J	1	ta		PL 1x12	62 7		2555	
1	L	1	tb		PL 1x12	40 0 1/2		1635	
1	A	1	ba		PL 1x12	62 7	M270-50WT2	2555	
1	C	1	bb		PL 1x12	39 11 1/2	M270-50WT2	1632	
2	C	4	x1a		PL 5/8x5 1/2	3 4	MIE	39	
2	D	5	x1b		PL 1/2x5 1/2	3 4		31	
2	E	1	x1f		PL 1/2x3	0 8 3/4		2	
3	M	206			STUD 7/8"	0 6	R108	1	

DO NOT SHIP FROM THIS SHEET

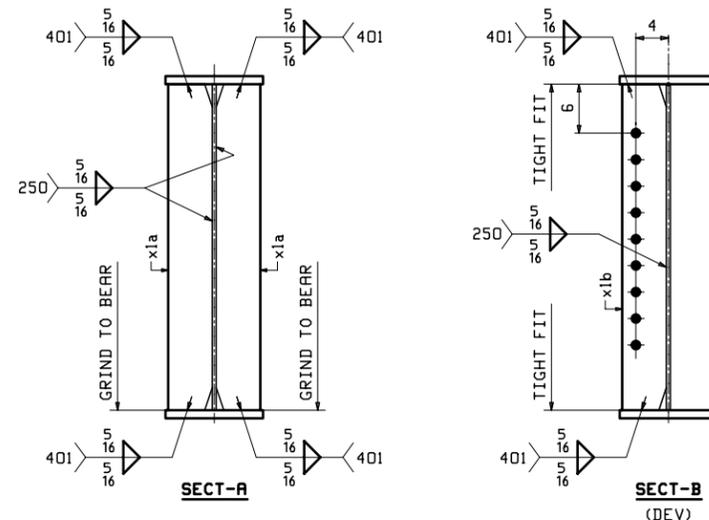
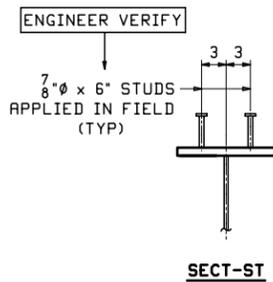


ONE ~ GIRDER ~ IG1

- NOTES:  
 1. FOR GENERAL NOTES SEE SHEET GNI.  
 2. FOR STANDARD DETAILS SEE SHEET XI.  
 3. FOR CAMBER & FLANGE DIAGRAM SEE SHEET C1.  
 4. T2 - DENOTES MATERIAL SUBJECT TO CHARPY V-NOTCH TESTING.



6" Stud Height Acceptable



X	Reviewed	_____	Furnish As Corrected
_____	Rejected	_____	Revise and Resubmit

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Date: February 12, 2014  
 By: D. Kull

**Mcfarland Johnson**

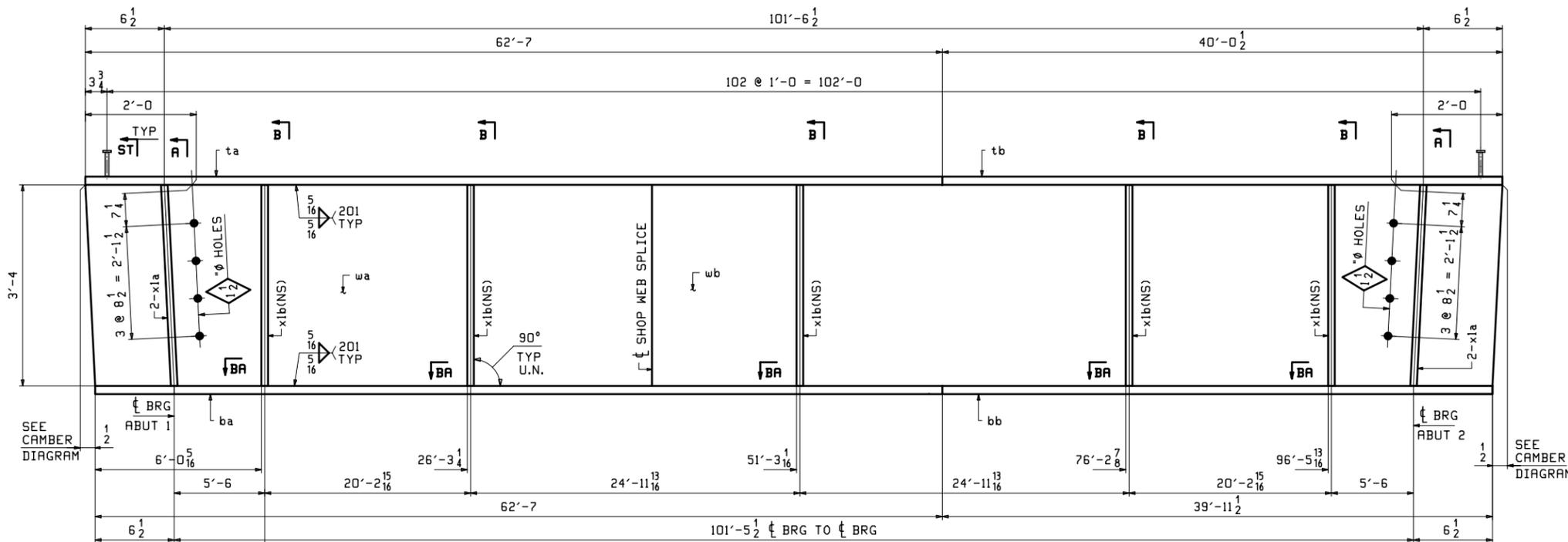
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0						
MATERIAL:		SURFACE PREP. & PAINT:		HOLES:		SHOP BOLTS:
M270-50W (UN)		SEE GNI		15/16" Ø UN		NONE
DESCRIPTION: GIRDER ~ IG1						
CASCO BAY STEEL STRUCTURES, INC.						
1 WALLACE AVE.			PHONE (207) 780-6722			
SOUTH PORTLAND, ME 04106			FAX. (207) 780-6726			
STRUCTURE: VT ROUTE 100 (MINOR ARTERIAL) OVER MAD RIVER BRIDGE NO. 166 WARREN COUNTY OF WASHINGTON				DRAWN: CRK	DATE: 01/23	
LOCATION: TOWN OF WARREN				CHKD: DO	DATE: 01/24	
PROJ NO. BRF D13-4(32)				JOB NO. 548	DWG NO. 1	
CUSTOMER: VT AOT				REV. 1		

Vermont Agency of Transportation

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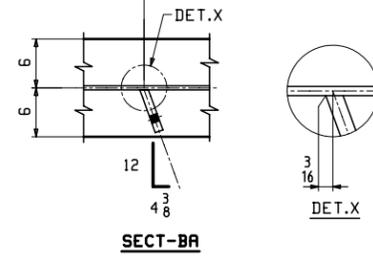
BY: Rob Young DATE: 02/18/2014



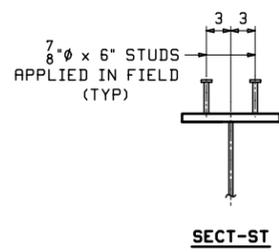


SEE CAMBER DIAGRAM

SEE CAMBER DIAGRAM



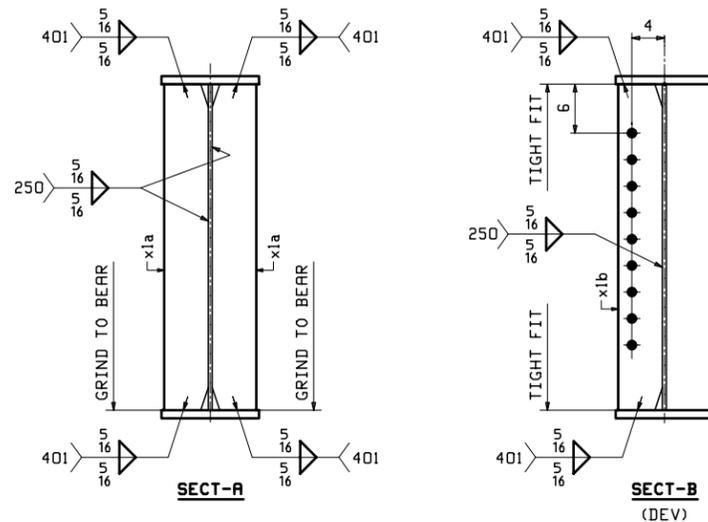
SECT-BR



SECT-ST

**ONE ~ GIRDER ~ 3G3**

- NOTES:  
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 4. T2 - DENOTES MATERIAL SUBJECT TO CHARPY V-NOTCH TESTING.

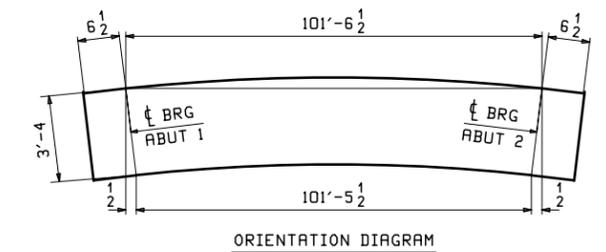


SECT-A

SECT-B (DEV)

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1	J	1	ta		PL 1x12	62 7		2555	
1	L	1	tb		PL 1x12	40 0 1/2		1635	
1	A	1	ba		PL 1x12	62 7	M270-50WT2	2555	
1	C	1	bb		PL 1x12	39 11 1/2	M270-50WT2	1632	
2	C	4	x1a		PL 5/8x5 1/2	3 4	MIE	39	
2	D	5	x1b		PL 1/2x5 1/2	3 4		31	
3	M	206			STUD 7/8 #	0 6	R108	1	

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ORIENTATION DIAGRAM

Vermont Agency of Transportation

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<input checked="" type="checkbox"/> Reviewed	<input type="checkbox"/> Furnish As Corrected
<input type="checkbox"/> Rejected	<input type="checkbox"/> Revise and Resubmit

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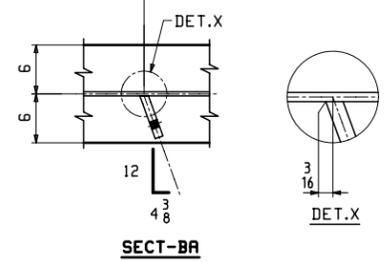
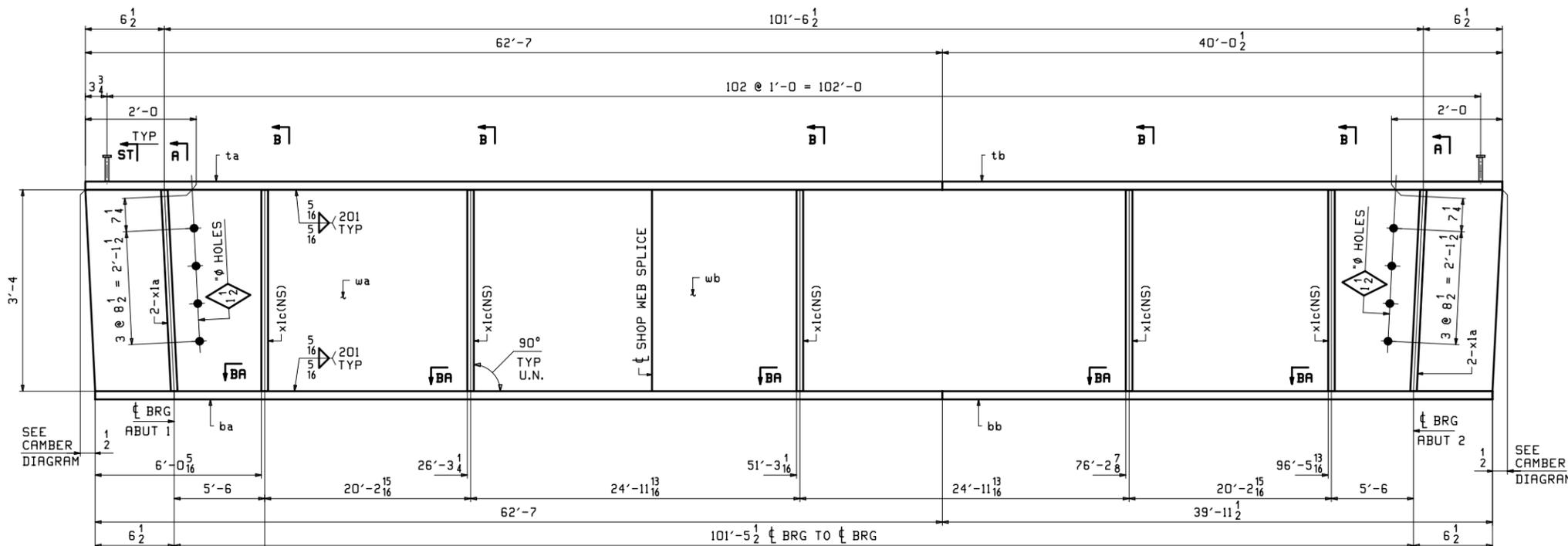
Date: February 12, 2014  
 By: D. Kull

**McFarland Johnson**

REV.	DATE	REMARKS	DWN	CHK	APVL	SHOP
0						
MATERIAL:		SURFACE PREP. & PAINT:		HOLES:		SHOP BOLTS:
M270-50W (UN)		SEE GNI		15/16" Ø UN		NONE
DESCRIPTION: GIRDER ~ 3G3						
CASCO BAY STEEL STRUCTURES, INC.						
1 WALLACE AVE.			PHONE (207) 780-6722			
SOUTH PORTLAND, ME 04106			FAX. (207) 780-6726			
STRUCTURE: VT ROUTE 100 (MINOR ARTERIAL) OVER MAD RIVER BRIDGE NO. 166 WARREN COUNTY OF WASHINGTON				DRAWN: CRK	DATE: 01/23	
LOCATION: TOWN OF WARREN				CHKD: DO	DATE: 01/24	
PROJ NO. BRF D13-4(32)		JOB NO.		DWG NO.		
CUSTOMER: VT AOT		548		3		
				REV.		

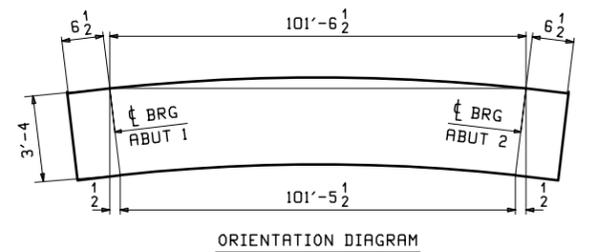
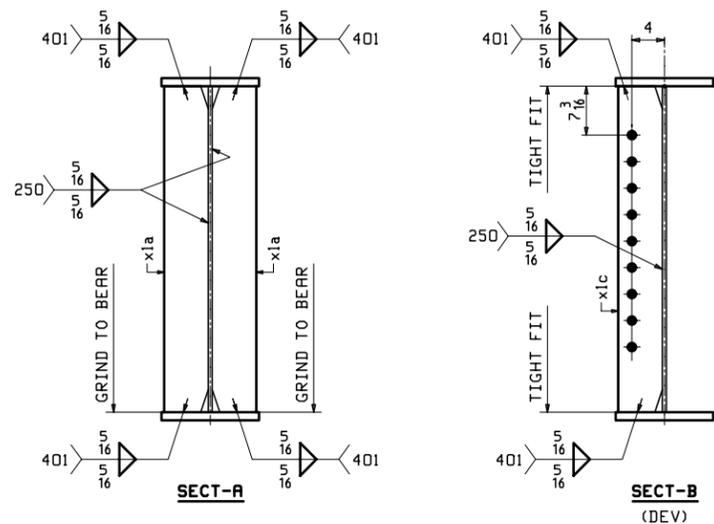
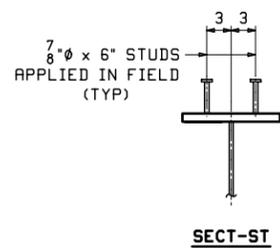
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		4G7	1		GIRDER			15912	
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1	E	2	wb		PL 1/2x40	62 7 1/2	M270-50WT2	4262	
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1	L	2	tb		PL 1x12	40 0 1/2		1635	
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1	C	2	bb		PL 1x12	39 11 1/2	M270-50WT2	1632	
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2	D	10	x1c		PL 1/2x5 1/2	3 4		31	
3	M	412			STUD 7/8"	0 6	R108	1	

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ONE ~ GIRDER ~ 4G5  
ONE ~ GIRDER ~ 4G7

- NOTES:  
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4. T2 - DENOTES MATERIAL SUBJECT TO CHARPY V-NOTCH TESTING.



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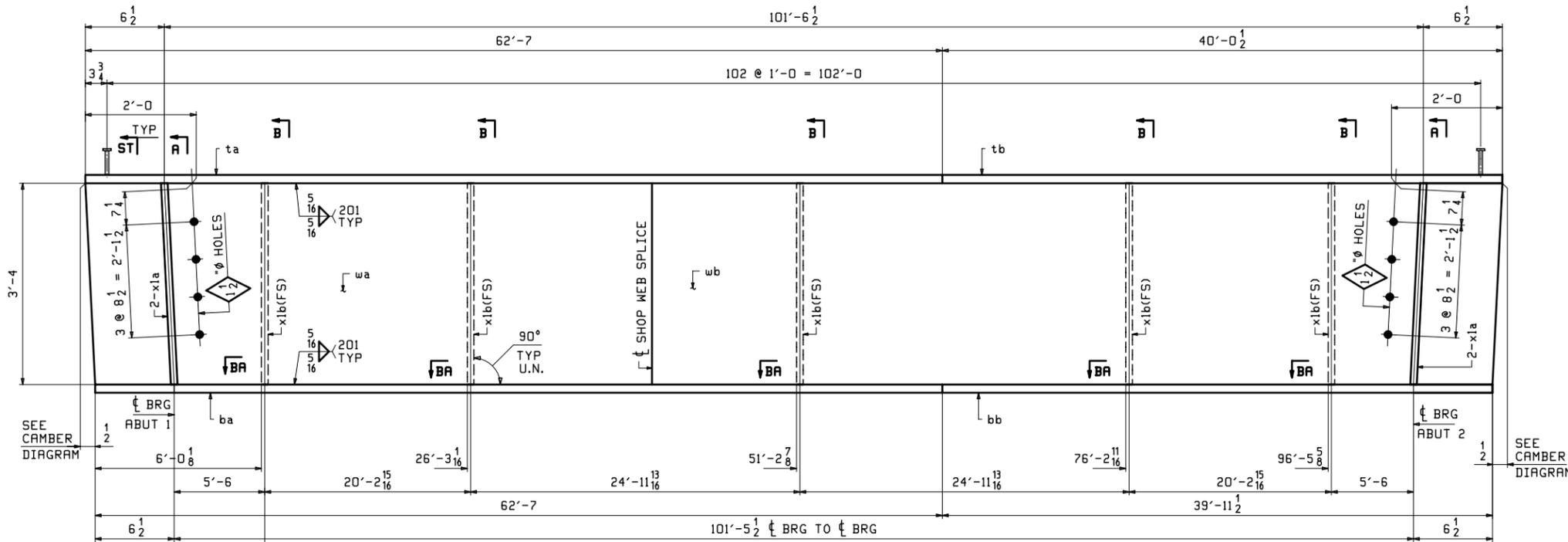
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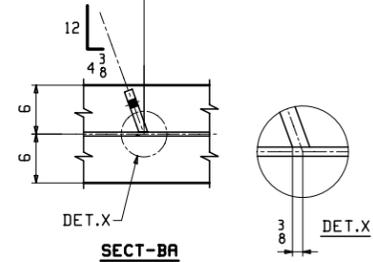
**Mcfarland Johnson**

REV.	DATE	REMARKS	DWN	CHK	APVL	SHOP
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MATERIAL:		SURFACE PREP. & PAINT:		HOLES:		SHOP BOLTS:
M270-50W (UN)		SEE GNI		15/16" UN		NONE
DESCRIPTION: GIRDERS ~ 4G5 & 4G7						
CASCO BAY STEEL STRUCTURES, INC.						
1 WALLACE AVE.			PHONE (207) 780-6722			
SOUTH PORTLAND, ME 04106			FAX. (207) 780-6726			
STRUCTURE: VT ROUTE 100 (MINOR ARTERIAL) OVER MAD RIVER BRIDGE NO. 166 WARREN COUNTY OF WASHINGTON				DRAWN:	DATE:	
				CRK	01/23	
				CHKD:	DATE:	
				DO	01/27	
LOCATION: TOWN OF WARREN			JOB NO.		DWG NO.	
PROJ NO. BRF D13-4(32)			548		4	
CUSTOMER: VT AOT					REV.	



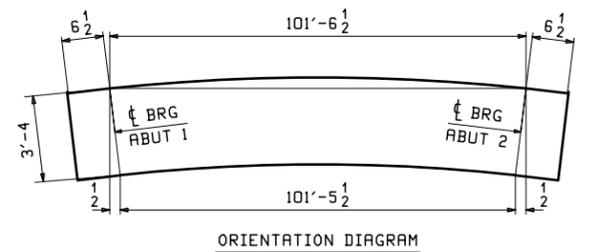
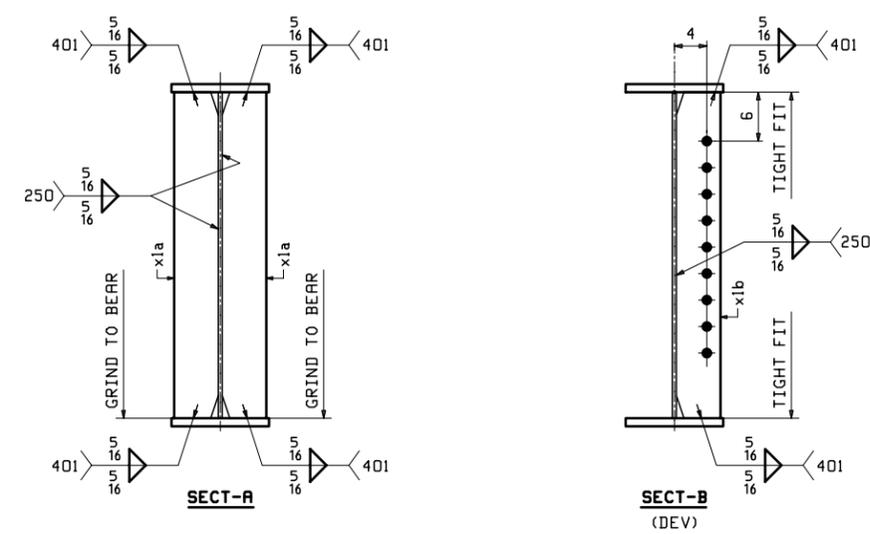
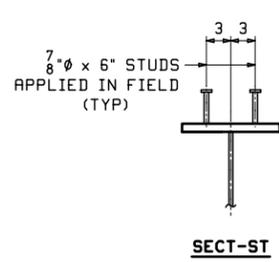
SEE CAMBER DIAGRAM

SEE CAMBER DIAGRAM



**ONE ~ GIRDER ~ 5G6**

- NOTES:  
 1. FOR GENERAL NOTES SEE SHEET GNI.  
 2. FOR STANDARD DETAILS SEE SHEET X1.  
 3. FOR CAMBER & FLANGE DIAGRAM SEE SHEET C1.  
 4. T2 - DENOTES MATERIAL SUBJECT TO CHARPY V-NOTCH TESTING.



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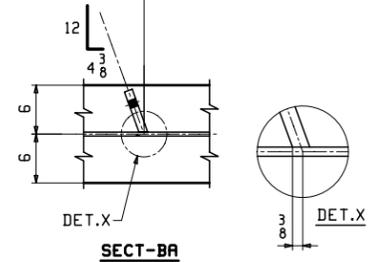
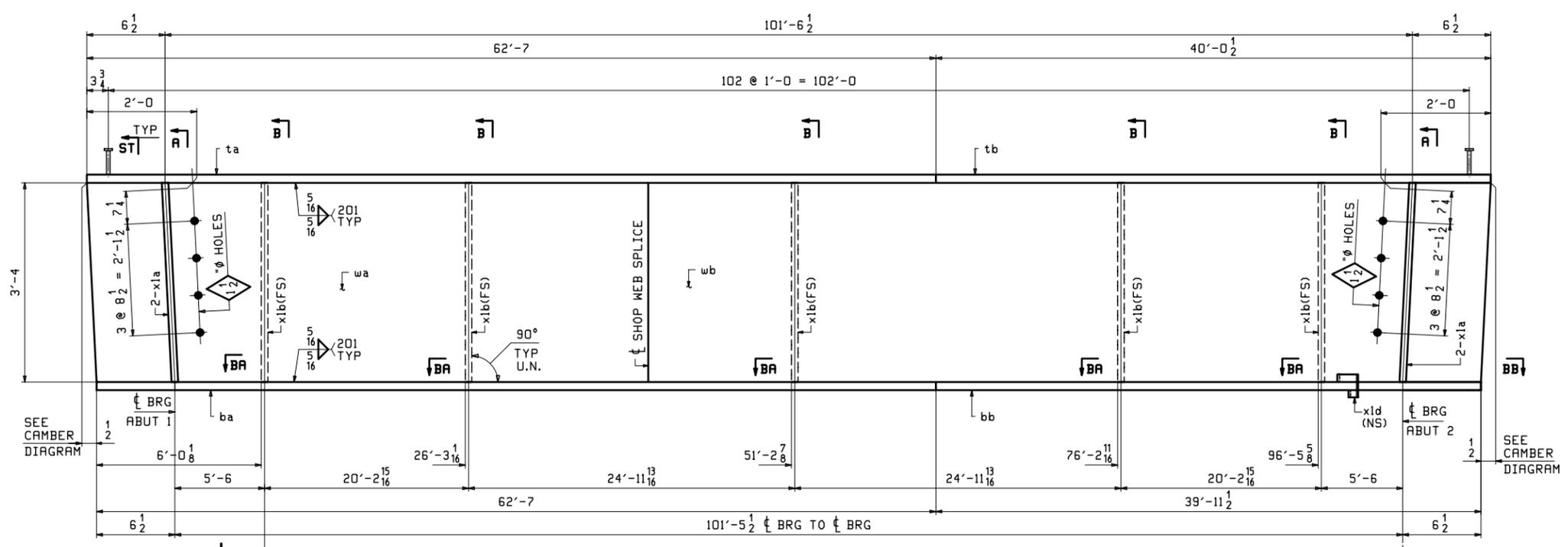
**McFarland Johnson** Date: February 12, 2014  
 By: D. Kull

ABM INFO		BILL OF MATERIAL				JOB NO.	DRAWING NO.	REV.	
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1	J	1	ta		PL 1x12	62 7		2555	
1	L	1	tb		PL 1x12	40 0 1/2		1635	
1	A	1	ba		PL 1x12	62 7	M270-50WT2	2555	
1	C	1	bb		PL 1x12	39 11 1/2	M270-50WT2	1632	
2	C	4	x1a		PL 5/8x5 1/2	3 4	MIE	39	
2	D	5	x1b		PL 1/2x5 1/2	3 4		31	
3	M		206		STUD 7/8 #	0 6	RI08	1	

REV.	DATE	REMARKS	DWN	CHK	APVL	SHOP
0						
MATERIAL:		SURFACE PREP. & PAINT:		HOLES:		SHOP BOLTS:
M270-50W (UN)		SEE GNI		15/16" UN		NONE
DESCRIPTION: GIRDER ~ 5G6						
CASCO BAY STEEL STRUCTURES, INC.						
1 WALLACE AVE.			PHONE (207) 780-6722			
SOUTH PORTLAND, ME 04106			FAX. (207) 780-6726			
STRUCTURE: VT ROUTE 100 (MINOR ARTERIAL) OVER MAD RIVER BRIDGE NO. 166 WARREN COUNTY OF WASHINGTON				DRAWN: CRK	DATE: 01/23	
LOCATION: TOWN OF WARREN				CHKD: DO	DATE: 01/27	
PROJ NO. BRF D13-4(32)		JOB NO. 548		DWG NO. 5		
CUSTOMER: VT AOT		REV. 5		REV. 1		

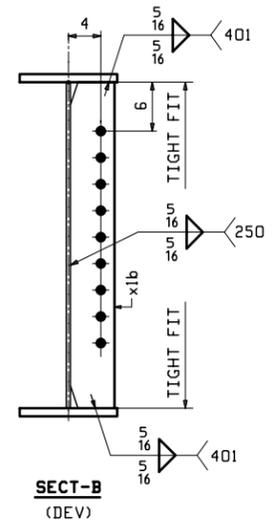
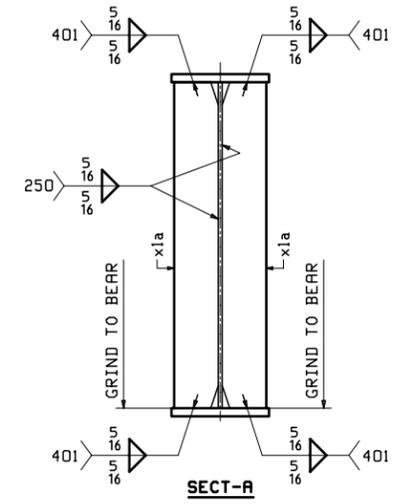
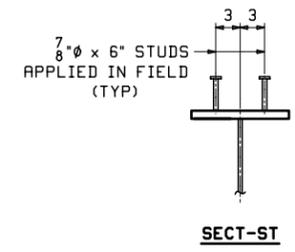
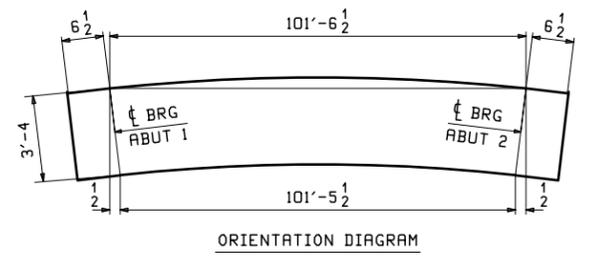
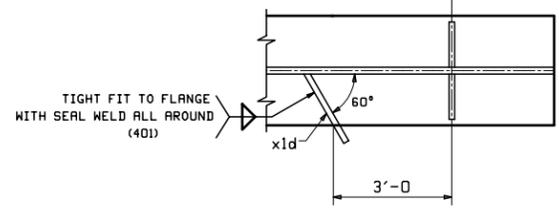
ABM INFO		BILL OF MATERIAL				JOB NO.	DRAWING NO.	REV.
LINE	MARK	QTY	MARK	MATERIAL	LENGTH FT INCHES	548	6	
	6GB	1		GIRDER				15913
1	G	1	wa	PL 1/2x40	40 0 1/16	M270-50WT2		2723
1	E	1	wb	PL 1/2x40	62 7 2	M270-50WT2		4262
1	J	1	ta	PL 1x12	62 7			2555
1	L	1	tb	PL 1x12	40 0 2			1635
1	A	1	ba	PL 1x12	62 7	M270-50WT2		2555
1	C	1	bb	PL 1x12	39 11 2	M270-50WT2		1632
2	C	4	x1a	PL 5/8x5 1/2	3 4	MIE		39
2	D	5	x1b	PL 1/2x5 1/2	3 4			31
2	E	1	x1d	PL 1/4x3	0 8 3/4			2
3	M	206		STUD 7/8"	0 6	R108		1

DO NOT SHIP FROM THIS SHEET



**ONE ~ GIRDER ~ 6GB**

NOTES:  
 1. FOR GENERAL NOTES SEE SHEET GNI.  
 2. FOR STANDARD DETAILS SEE SHEET X1.  
 3. FOR CAMBER & FLANGE DIAGRAM SEE SHEET C1.  
 4. T2 - DENOTES MATERIAL SUBJECT TO CHARPY V-NOTCH TESTING.



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 ON: January 29, 2014  
 and Checked for  
**CONFORMANCE**  
 BY: Rob Young DATE: 02/18/2014

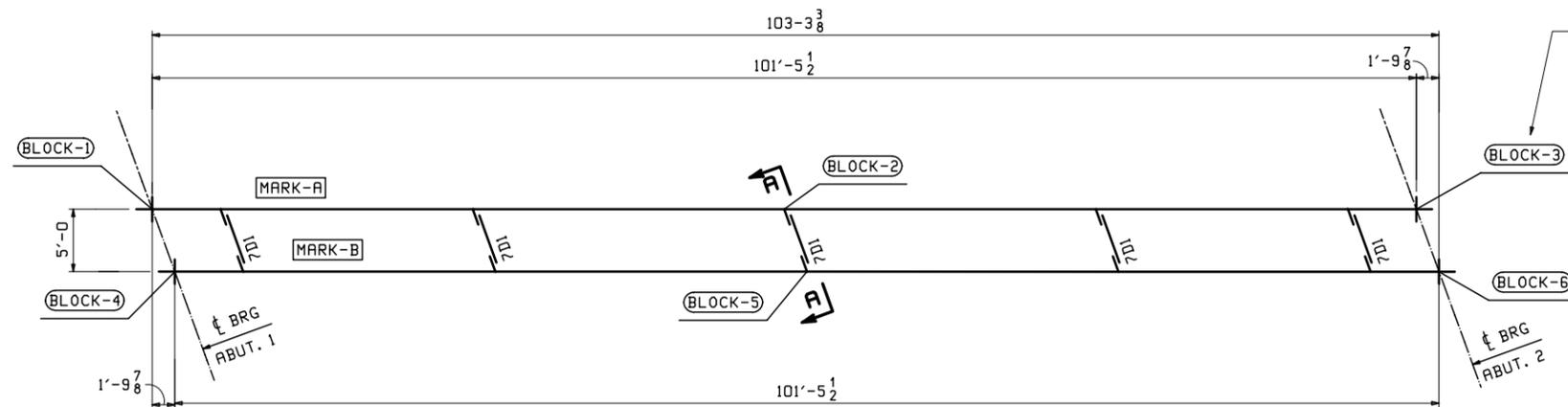
X	Reviewed	_____	Furnish As Corrected
_____	Rejected	_____	Revise and Resubmit

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Date: February 12, 2014  
 By: D. Kull

REV.	DATE	REMARKS	DWN	CHK	APVL	SHOP
0						
MATERIAL:		SURFACE PREP. & PAINT:		HOLES:		SHOP BOLTS:
M270-50W (UN)		SEE GNI		15/16" UN		NONE
DESCRIPTION: GIRDER ~ 6GB						
CASCO BAY STEEL STRUCTURES, INC. 1 WALLACE AVE. PHONE (207) 780-6722 SOUTH PORTLAND, ME 04106 FAX. (207) 780-6726						
STRUCTURE: VT ROUTE 100 (MINOR ARTERIAL) OVER MAD RIVER BRIDGE NO. 166 WARREN COUNTY OF WASHINGTON				DRAWN: CRK CHKD: DO		DATE: 01/23 DATE: 01/27
LOCATION: TOWN OF WARREN			JOB NO. 548		DWG NO. 6	
PROJ NO. BRF D13-4(32)			CUSTOMER: VT AOT		REV.	

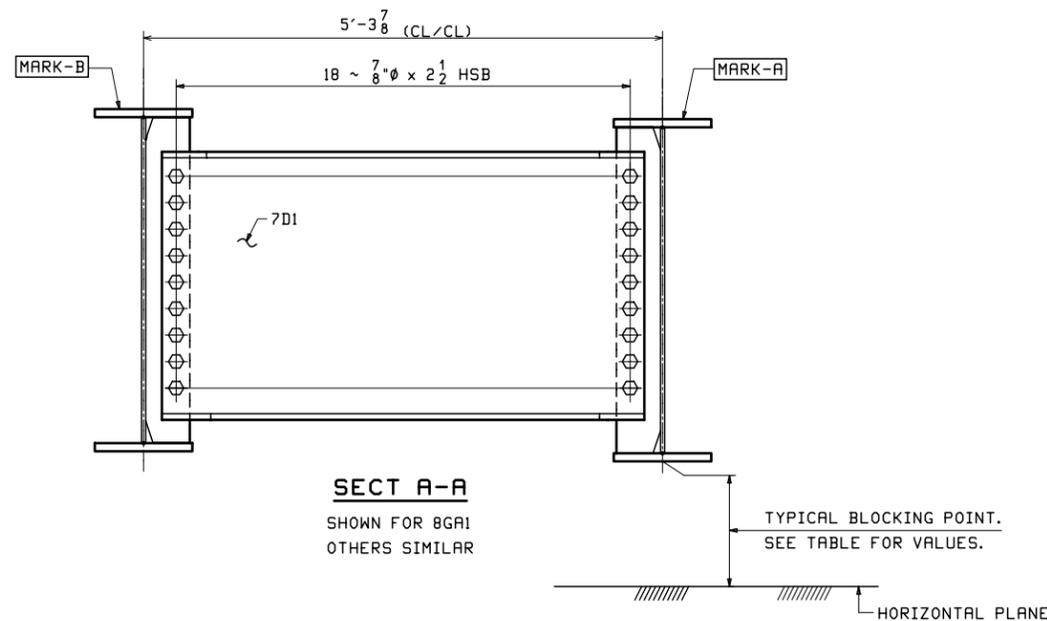




BLOCKING ELEVATIONS ARE GIVEN AT BOTTOM OF BOTTOM FLANGE (TYP). SEE SECT A-A.

**GIRDER ASSEMBLY PLAN**

SHIP MARK	MARK-A	MARK-B	BLOCK-1	BLOCK-2	BLOCK-3	BLOCK-4	BLOCK-5	BLOCK-6
8GA1	1G1	2G2	11 1/2	1'-5 7/16	11 1/16	1'-0 11/16	1'-6 1/2	1'-0 1/4
8GA2	3G3	2G4	1'-1 7/16	1'-7 1/4	1'-1 1/16	1'-2 11/16	1'-8 1/2	1'-2 1/4
8GA3	4G5	5G6	1'-2 5/8	1'-8 7/16	1'-2 1/4	1'-1 7/16	1'-7 1/4	1'-1 1/16
8GA4	4G7	6G8	1'-0 5/8	1'-6 7/16	1'-0 1/4	11 7/16	1'-5 3/8	11 1/16



**SECT A-A**  
SHOWN FOR 8GA1  
OTHERS SIMILAR

TYPICAL BLOCKING POINT.  
SEE TABLE FOR VALUES.

Vermont Agency of Transportation

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ON: **January 29, 2014**

and Checked for

**CONFORMANCE**

BY: **Rob Young** DATE: **02/18/2014**

NOTES:  
FOR GENERAL NOTES SEE GNI

Reviewed  Furnish As Corrected  
 Rejected  Revise and Resubmit

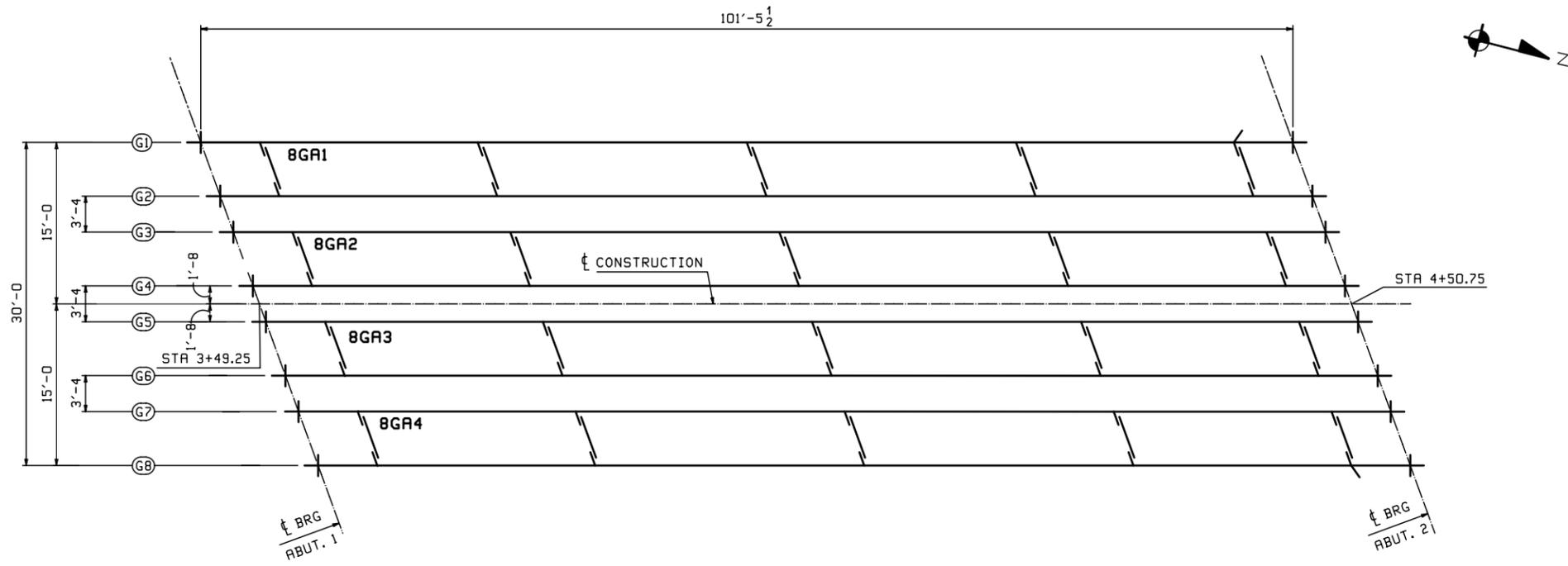
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Date: February 12, 2014  
By: D. Kull



PAGE	LINE	MARK	QTY	MARK	MATERIAL	LENGTH		REMARKS	JOB NO. 548	DRAWING NO. 8	REV.
						FT	INCHES				
		8GA1	1		GIRDER ASSEMBLY						34824
			1	1G1	GIRDER						5913
			1	2G2	GIRDER						5912
			5	7D1	INT. DIAPHRAGM						584
3	C		90		7/8" HSB	0	2 1/2	A325-3			.80
3	G		90		7/8" HSB			F436H			.07
		8GA2	1		GIRDER ASSEMBLY						34823
			1	3G3	GIRDER						5912
			1	2G4	GIRDER						5912
			5	7D1	INT. DIAPHRAGM						584
3	C		90		7/8" HSB	0	2 1/2	A325-3			.80
3	G		90		7/8" HSB			F436H			.07
		8GA3	1		GIRDER ASSEMBLY						34823
			1	4G5	GIRDER						5912
			1	5G6	GIRDER						5912
			5	7D1	INT. DIAPHRAGM						584
3	C		90		7/8" HSB	0	2 1/2	A325-3			.80
3	G		90		7/8" HSB			F436H			.07
		8GA4	1		GIRDER ASSEMBLY						34824
			1	4G7	GIRDER						5912
			1	6G8	GIRDER						5913
			5	7D1	INT. DIAPHRAGM						584
3	C		90		7/8" HSB	0	2 1/2	A325-3			.80
3	G		90		7/8" HSB			F436H			.07

REV.	DATE	REMARKS	DWN	CHK	APVL	SHOP
0						
MATERIAL:		SURFACE PREP. & PAINT:		HOLES:		SHOP BOLTS:
DESCRIPTION: GIRDER ASSEMBLIES						
CASCO BAY STEEL STRUCTURES, INC.						
1 WALLACE AVE.			PHONE (207) 780-6722			
SOUTH PORTLAND, ME 04106			FAX. (207) 780-6726			
STRUCTURE: VT ROUTE 100 (MINOR ARTERIAL) OVER MAD RIVER BRIDGE NO. 166 WARREN COUNTY OF WASHINGTON				DRAWN: CRK	DATE: 01/24	
LOCATION: TOWN OF WARREN				CHKD: DO	DATE: 01/24	
PROJ NO. BRF D13-4(32)				JOB NO.	DWG NO.	
CUSTOMER: VT AOT				548	8	
				REV.	8	



**FRAMING PLAN**

Vermont Agency of Transportation  
**RECEIVED**  
 ON: **January 29, 2014**  
 and Checked for  
**CONFORMANCE**  
 BY: **Rob Young** DATE: **02/18/2014**

Reviewed  
 Rejected  
 Furnish As Corrected  
 Revise and Resubmit

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Date February 12, 2014  
 By D. Kull

REV.	DATE	REMARKS	DWN	CHK	APVL	SHOP
MATERIAL:		SURFACE PREP. & PAINT:		HOLES:		SHOP BOLTS:
DESCRIPTION: FRAMING PLAN						
CASCO BAY STEEL STRUCTURES, INC. 1 WALLACE AVE. PHONE (207) 780-6722 SOUTH PORTLAND, ME 04106 FAX. (207) 780-6726						
STRUCTURE: VT ROUTE 100 (MINOR ARTERIAL) OVER MAD RIVER BRIDGE NO. 166 WARREN COUNTY OF WASHINGTON				DRAWN: CRK	DATE: 1/23/13	
LOCATION: TOWN OF WARREN				CHKD: DO	DATE: 1/27/13	
PROJ NO. BRF 013-4(32)				JOB NO.	DWG NO.	
CUSTOMER: VT AOT				<b>548</b>	<b>E1</b>	
				REV.	△	