

## GENERAL NOTES

### CONSTRUCTION SPECIFICATIONS

- ALL MATERIAL AND WORKMANSHIP TO BE IN ACCORDANCE WITH THE STATE OF VERMONT AGENCY OF TRANSPORTATION STANDARD SPECIFICATIONS FOR CONSTRUCTION, DATED 2011, WITH ITS LATEST REVISIONS, AND THE AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS, 6TH EDITION WITH INTERIMS THROUGH 2012.

### MATERIAL SPECIFICATION

- ALL STRUCTURAL STEEL SHALL CONFORM TO AASHTO M270 GRADE 50W.
- MATERIAL NOTED "T2" ON DETAIL DRAWINGS SHALL BE CHARPY V-NOTCH TESTED IN ACCORDANCE WITH SUBSECTION 714.01.
- HIGH STRENGTH BOLTS SHALL BE ASTM A325, TYPE 3, WITH ASTM A563 DH3 NUTS AND ONE ASTM F436 TYPE 3 WASHER PER BOLT. ROTATIONAL CAPACITY TESTING SHALL BE REQUIRED FOR ALL BOLT ASSEMBLIES.

### FABRICATION

- THE BOTTOM FLANGE OF GIRDERS AT BEARINGS SHALL BE SHOP STRAIGHTENED AS REQUIRED TO PROVIDE UNIFORM CONTACT BETWEEN THE GIRDER FLANGE AND THE BEARINGS AT THE BRIDGE SEAT. NOTED AS "BRG. AREA" ON DETAILS.

### SHOP WELDING AND TESTING

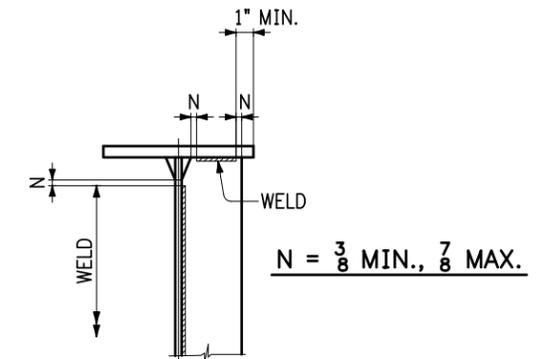
- WELDING AND NON-DESTRUCTIVE TESTING SHALL BE IN ACCORDANCE WITH ANSI/AASHTO/AWS BRIDGE WELDING CODE, D1.5 (LATEST EDITION).
- FOR WELDING CONNECTION PLATES TO GIRDERS SEE "TYP. WELD TERMINATION DETAIL".
- NON-DESTRUCTIVE TESTING OF WELDS SHALL BE IN ACCORDANCE WITH THE REFERENCED SPECIFICATIONS.

### SHOP CLEANING

- BLAST CLEAN ALL STEEL TO SSPC-SP10 (NEAR WHITE) EITHER BEFORE OR AFTER FABRICATION.

### SHOP PAINTING

- NO PAINT



TYP. WELD TERMINATION DETAIL

Vermont Agency of Transportation

**RECEIVED**

ON: **January 14, 2015**

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BY: **D Bonneau** DATE: **02/05/15**

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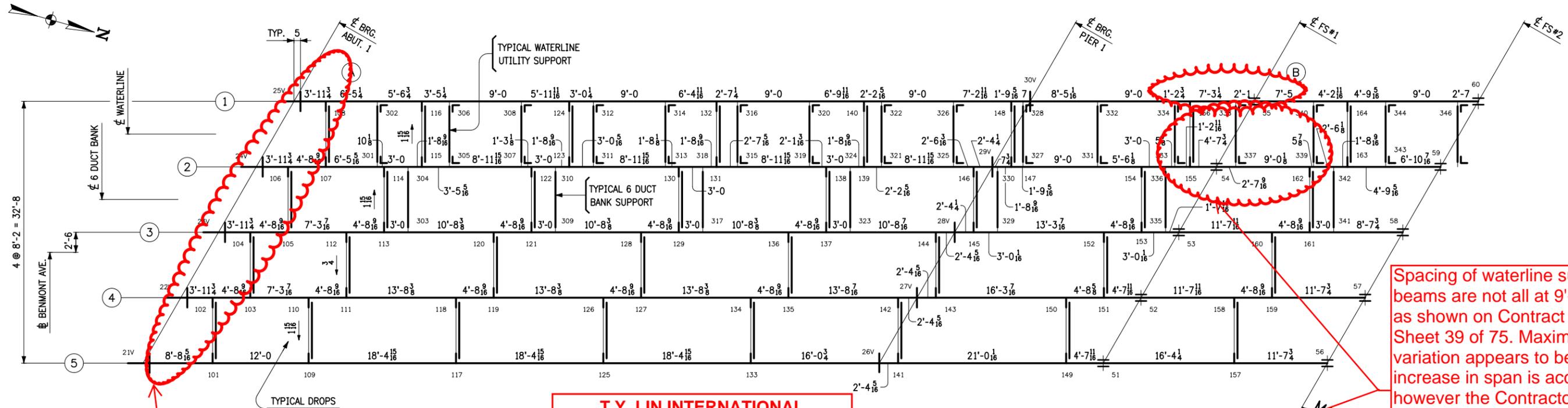
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RICK HEBERT  
REVIEWER

2/2/2015  
DATE

NO.	DATE	REMARKS	BY
REVISIONS			
		<b>CASCO BAY STEEL STRUCTURES</b> <small>ONE WALLACE AVENUE      PHONE: 207-780-6722                  SOUTH PORTLAND, ME 04106      FAX: 207-780-6726</small>	
STRUCTURE		BENMONT AVE. (TH-7) (URBAN MINOR ARTERIAL)	
LOCATION		TOWN OF BENNINGTON, VERMONT	
PROJECT NO.		BRIDGE NO. 57    PROJECT NO. BRF 1000(16)	
ENGINEER		STATE OF VERMONT AGENCY OF TRANSPORTATION	
CUSTOMER		ALPINE CONSTRUCTION	
ITEM		GENERAL NOTES	
SURFACE PREP.		OPEN HOLES	
PAINT			
APPROVAL	DRAWN	DMM 12-19-14	SHEET NO. JOB NO.
SHOP	CHECKED	FM 12-31-14	GN1 605



Spacing of waterline support beams are not all at 9'-0" spaces as shown on Contract Drawing Sheet 39 of 75. Maximum variation appears to be 9". The increase in span is acceptable, however the Contractor should refer to the Special Provision (Water Main on Bridge) to ensure compliance with the hanger distance to pipe joint requirements are also met.

To clarify, Dimensions are OK to CL Bearing and not to bearing stiffener (typ)

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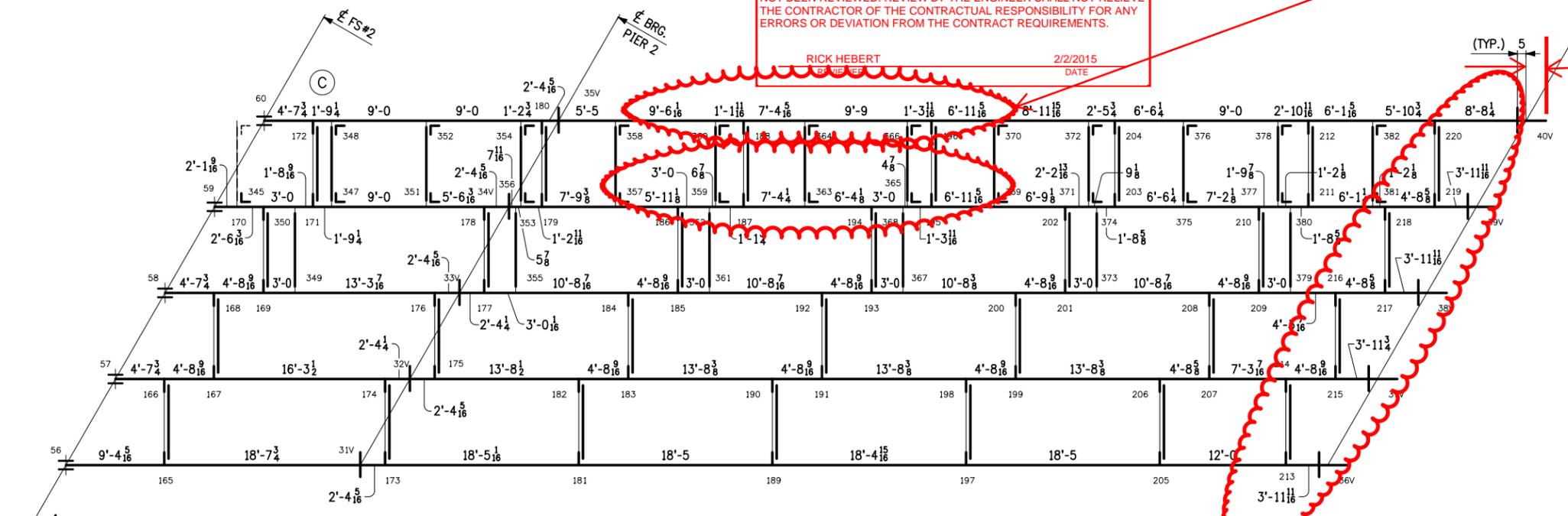
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 ENGINEER  
 2/2/2015  
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- NOTES:**
1. LONGITUDINAL DIMS. ARE SLOPING ALONG BOTTOM OF WEB IN CAMBERED POSITION.
  2. TRANSVERSE DIMS. ARE HORIZONTAL.
  3. → DENOTES DROP (FINAL). ARROW POINTS TO LOW END.
  4. BEARING STIFFENERS AND ENDS OF GIRDERS ARE VERTICAL IN FINAL POSITION.
  5. INT. CONN. PLATES ARE NORMAL TO BOTTOM FLANGE.
  6. FOR LAYOUTS SEE DWG. TD1 & TD2.



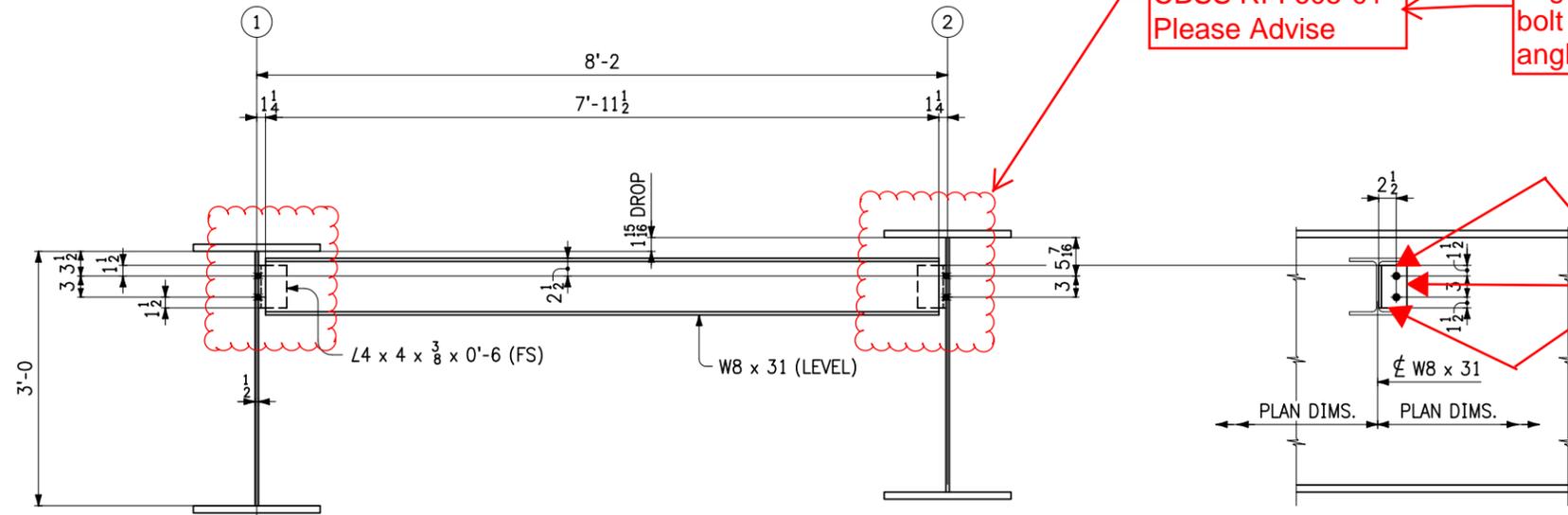
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THIS IS A WORK DRAWING. ITS FUNCTION IS TO PROVIDE BASIC DIMENSIONS AND CONCEPTS FOR USE IN THE PREPARATION OF THE SHOP DETAILS. IT IS NOT INTENDED TO BE USED FOR ERECTION OR FABRICATION.

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ENGINEER		STATE OF VERMONT AGENCY OF TRANSPORTATION	
CUSTOMER		ALPINE CONSTRUCTION	
ITEM		CALC PLAN	
SURFACE PREP.		OPEN HOLES	
PAINT			
APPROVAL	DRAWN	12-2-14	SHEET NO.
SHOP	CHECKED	12-5-14	WS1
		JOB NO.	
		605	







CBSS RFI 605-01  
Please Advise

Shop weld connection  
angle to web and field  
bolt W8 to connection  
angles

Shop weld connection  
angle to web

**WATERLINE UTILITY SUPPORT  
BETWEEN GIRDERS 1 & 2**  
(LOOKING UPSTATION)

**T.Y. LIN INTERNATIONAL**

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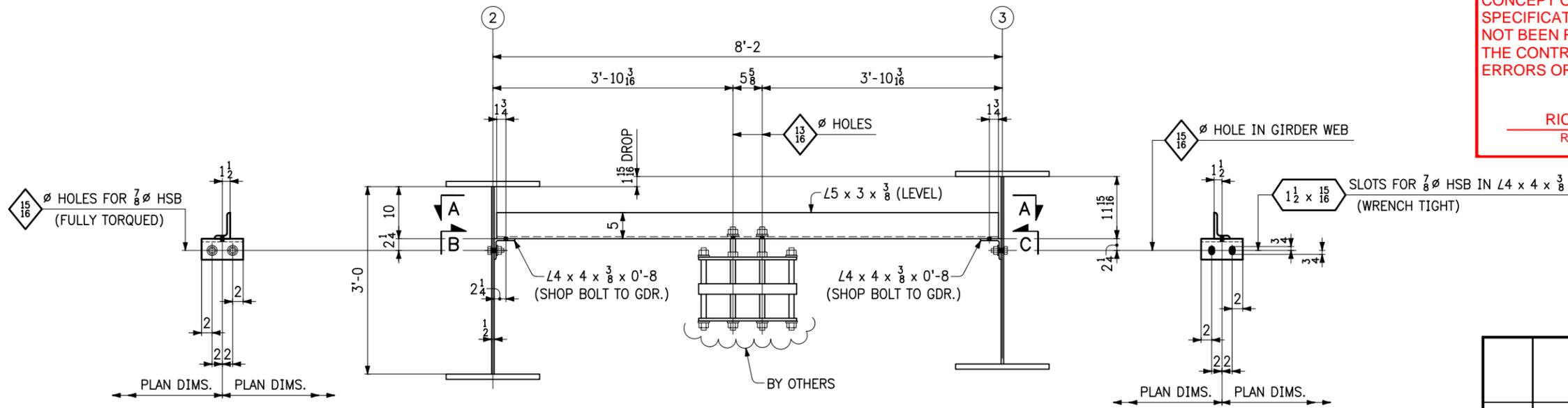
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- X APPROVED AS NOTED
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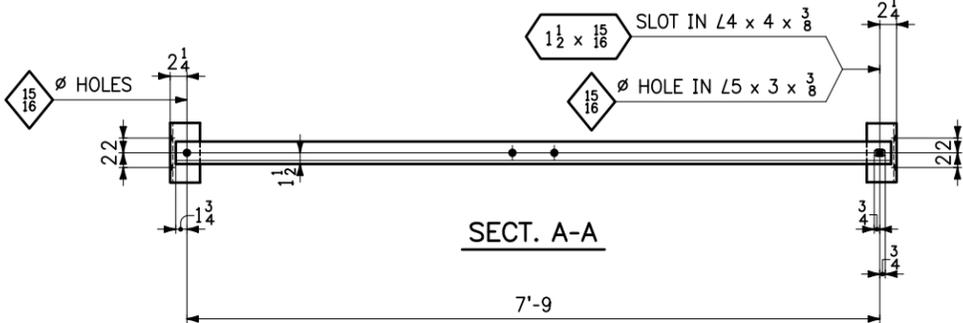
15/16" HOLES FOR 7/8" HSB  
(FULLY TORQUED)

15/16" HOLE IN GIRDER WEB

1 1/2 x 15/16" SLOTS FOR 7/8" HSB IN L4 x 4 x 3/8  
(WRENCH TIGHT)

**SECT. B**

**SECT. C**

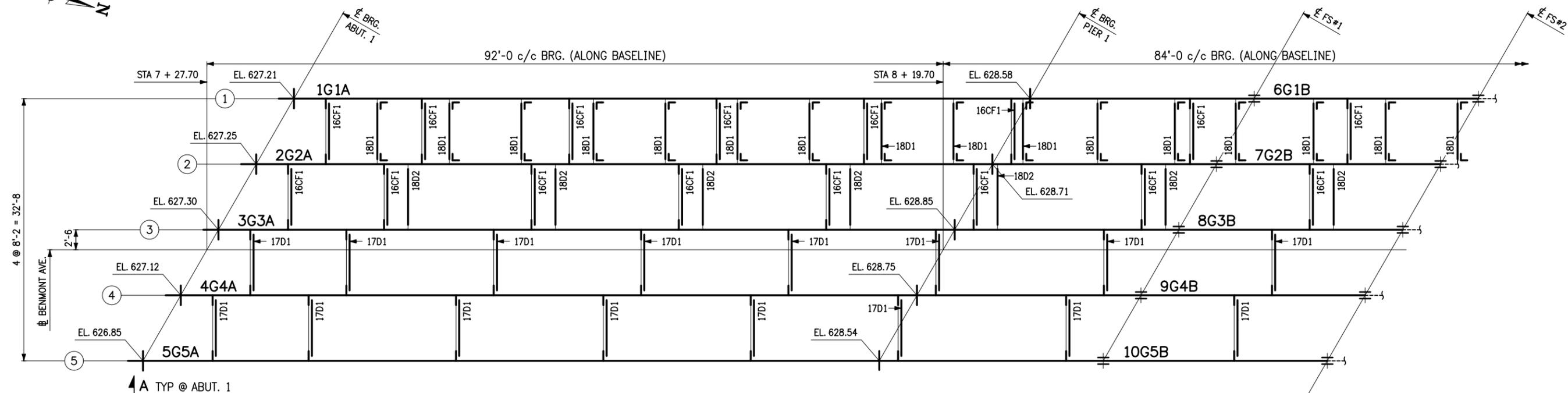
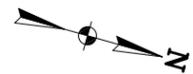


**6" DUCT BANK SUPPORT  
BETWEEN GIRDERS 2 & 3**  
(LOOKING UPSTATION)

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CUSTOMER		ALPINE CONSTRUCTION	
ITEM		LAYOUTS	
SURFACE PREP.		OPEN HOLES 15/16" HOLES FOR 3/4" BOLTS	
PAINT			
APPROVAL	DRAWN	DATE	SHEET NO.
SHOP	WCG	12-2-14	TD2
	CHECKED	12-3-14	JOB NO.
	LD		605



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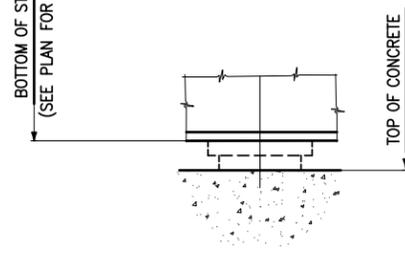
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REVIEWER

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### CONTRACTOR NOTE:

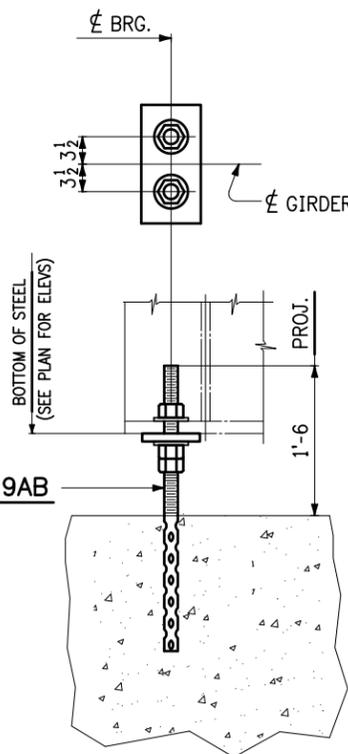
ELEVATIONS ARE GIVEN TO BOTTOM OF STEEL - DO NOT POUR TO FINAL ELEVATIONS WITHOUT VERIFICATION OF BEARING HEIGHTS AND BRIDGE SEATS.



SPAN 1

### ERECTION PLAN

SPAN 2



SECT. A

### NOTES:

1. FOR GENERAL NOTES, SEE DWG. GN1.
2. ALL DIMENSIONS ARE GIVEN IN A HORIZONTAL PLANE.

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CUSTOMER <u>ALPINE CONSTRUCTION</u>			
ITEM <u>ERECTION PLAN</u>			
SURFACE PREP. <u>OPEN HOLES</u>			
PAINT _____			
APPROVAL	DRAWN <u>MAY</u> 12-3-14	SHEET NO. <u>E1</u>	JOB NO. <u>605</u>
SHOP	CHECKED <u>FM</u> 1-6-15		

Vermont Agency of Transportation

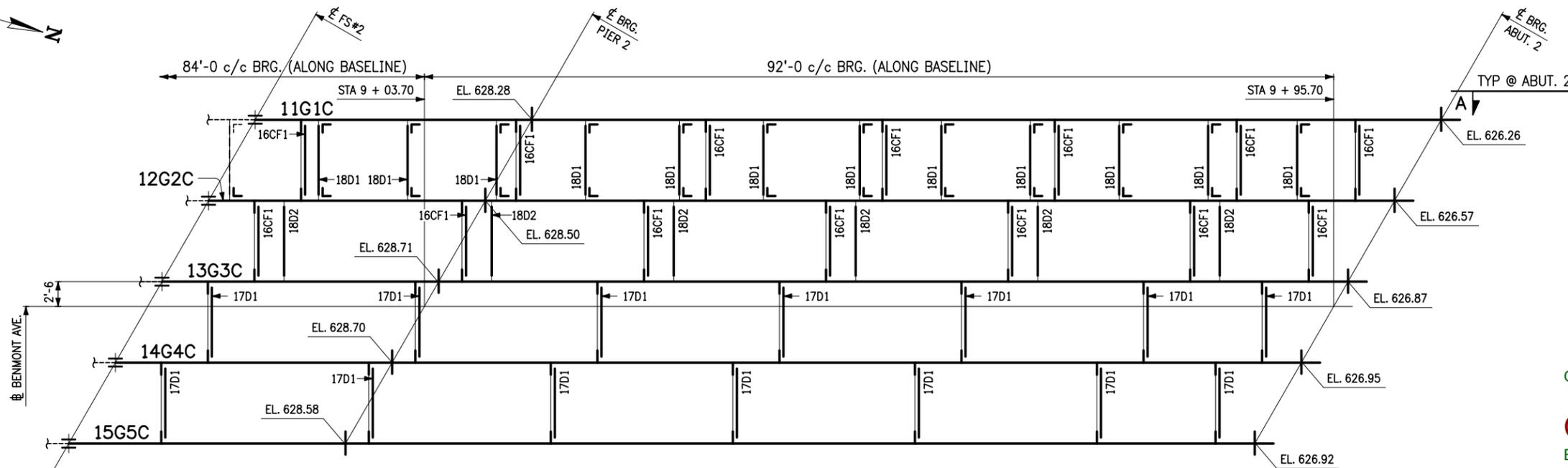
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**SPAN 3**

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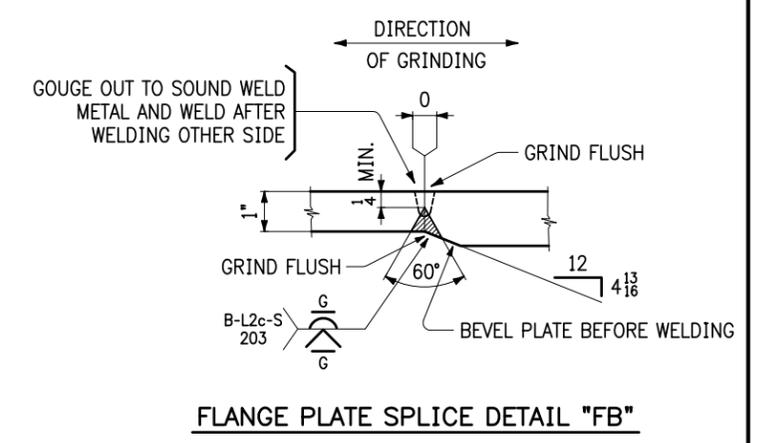
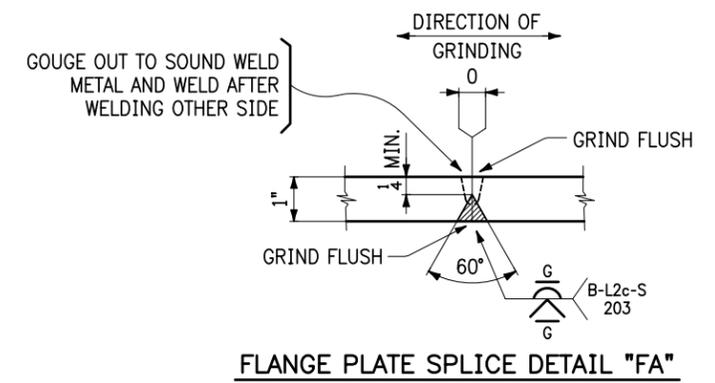
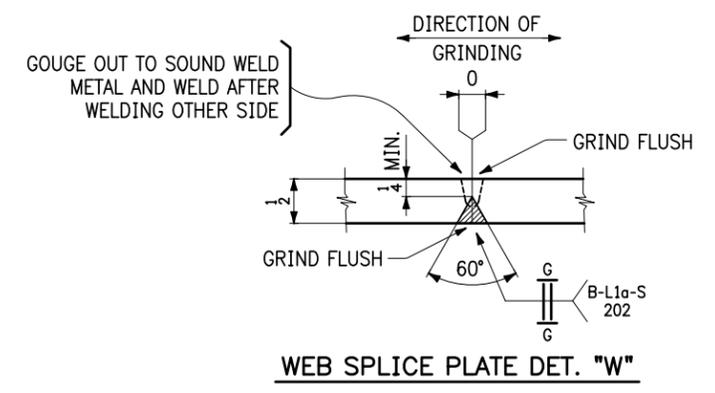
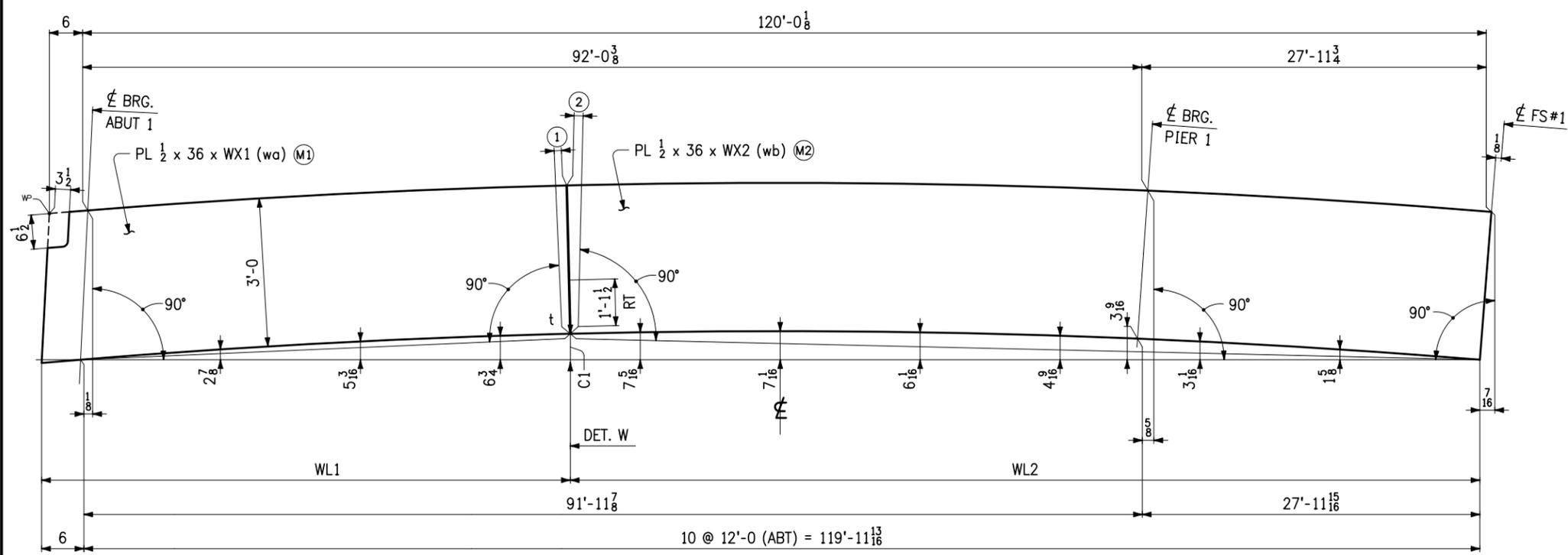
FIELD BOLT LIST							A325 TYPE 3 BOLTS					WASH CODE	PIECES CONNECTED AND REMARKS
LINE	NO. REQ'D.	BOLT DIAM.	BOLT LEN.	BOLTS /CONN.	# OF CONN.	GRIP	THICKNESS OF PCS. CONNECTED						
<b>FIELD SPLICES</b>													
1													TOP FLANGE SPLICE
2	480	7/8	3 3/4	48	10	2 1/2	3/4	1"	3/4			1	WEB SPLICE
3	600	7/8	2 3/4	60	10	1 1/2	1/2	1/2	1/2			1	BOTTOM FLANGE SPLICE
4	480	7/8	3 3/4	48	10	2 1/2	3/4	1"	3/4			1	
5													
<b>DIAPHRAGMS</b>													
6													WATERLINE UTILITY SUPPORTS TO GDR'S
7	112	3/4	2	4	28	7/8	3/8	1/2				1	6" DUCT BANK SUPPORTS TO GDR. CONN. L
8	26	7/8	2	2	13	3/4	3/8	3/8				1	DPH'S BTW. GDR'S 3, 4 & 5 TO CONN. PL'S
9	420	7/8	2 1/4	14	30	1 5/8	7/16	1/2				1	
10													
<b>CROSSFRAMES</b>													
11													CF'S BTW. GDR'S 1, 2 & 3 TO CONN. PL'S
12	480	7/8	2 1/4	16	30	7/8	3/8	1/2				1	

1: 1 HARD FLAT WASHER

WASHER CODES

FIELD BOLT SUMMARY						2% + 3 ADDED, MIN. 3 EXTRA	
LINE	NO. OF BOLTS	BOLT DIAM.	TYPE	BOLT LEN.	ACTUAL COUNT	REMARKS	
1	30	7/8	A325 Type 3	2	26		
2	921	7/8	A325 Type 3	2 1/4	900		
3	615	7/8	A325 Type 3	2 3/4	600		
4	982	7/8	A325 Type 3	3 3/4	960		
5							
6	117	3/4	A325 Type 3	2	112		
7							
8	2548		Hard Flat Washers for 7/8" BOLT		2486	F436-3	
9							
10	117		Hard Flat Washers for 3/4" BOLT		112	F436-3	
11							
12							

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CUSTOMER <u>ALPINE CONSTRUCTION</u>			
ITEM <u>ERECTION PLAN</u>			
SURFACE PREP. <u>OPEN HOLES</u>			
PAINT _____			
APPROVAL	DRAWN <u>MAY</u> 12-3-14	SHEET NO. <u>E2</u>	JOB NO. <u>605</u>
SHOP	CHECKED <u>FM</u> 1-6-15		



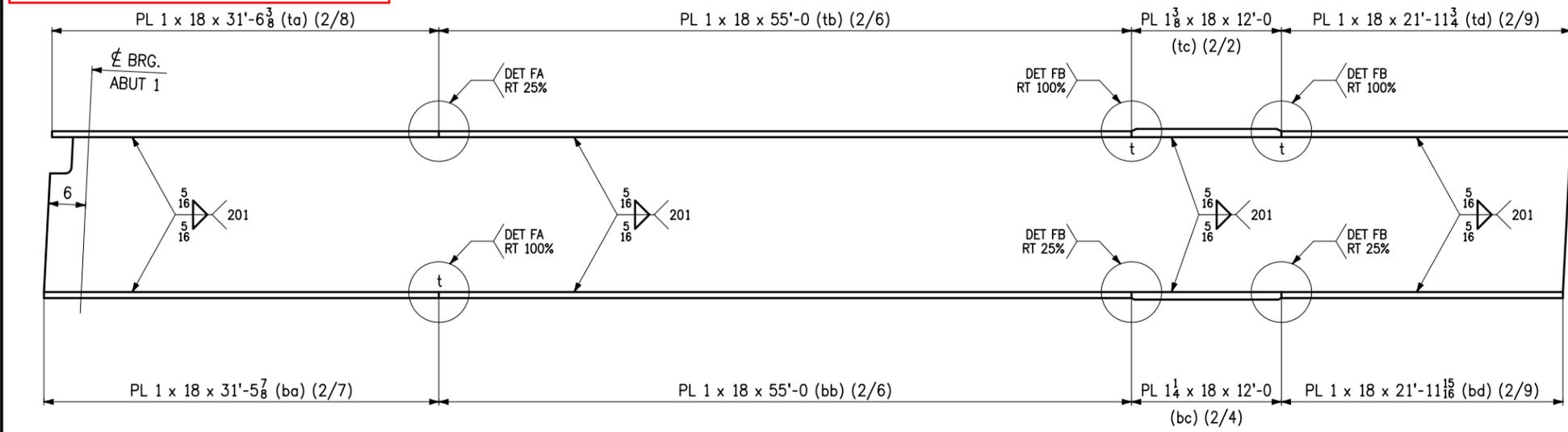
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**CAMBER DIAGRAM FOR 1G1A & 2G2A**

MARK	WX1	WX2	WL1	WL2	C1	①	②	Ⓜ1	Ⓜ2
1G1A	42'-11 <sup>5</sup> / <sub>16</sub>	77'-7 <sup>9</sup> / <sub>16</sub>	42'-10 <sup>7</sup> / <sub>8</sub>	77'-6 <sup>15</sup> / <sub>16</sub>	7 <sup>3</sup> / <sub>16</sub>	3 <sup>3</sup> / <sub>8</sub>	7 <sup>7</sup> / <sub>16</sub>	1/17	1/12
2G2A	47'-7 <sup>15</sup> / <sub>16</sub>	72'-10 <sup>7</sup> / <sub>8</sub>	47'-7 <sup>7</sup> / <sub>16</sub>	72'-10 <sup>3</sup> / <sub>8</sub>	7 <sup>5</sup> / <sub>16</sub>	7 <sup>7</sup> / <sub>16</sub>	3 <sup>3</sup> / <sub>8</sub>	1/16	1/13

**NOTES:**

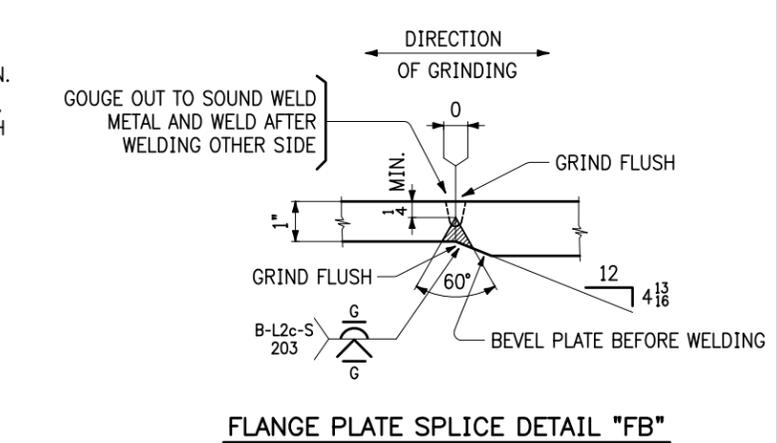
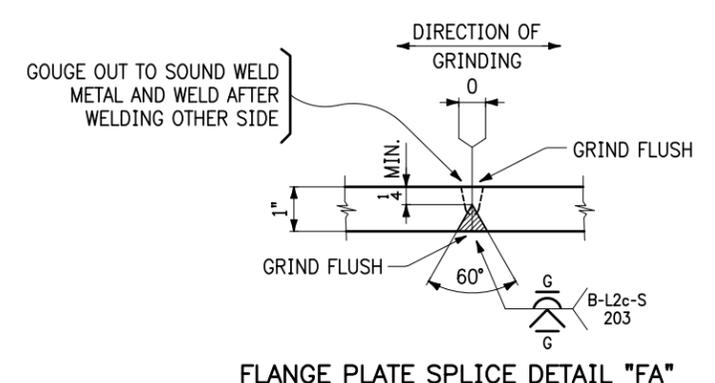
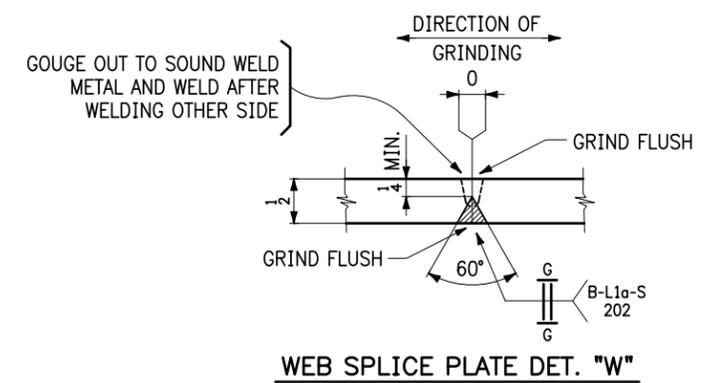
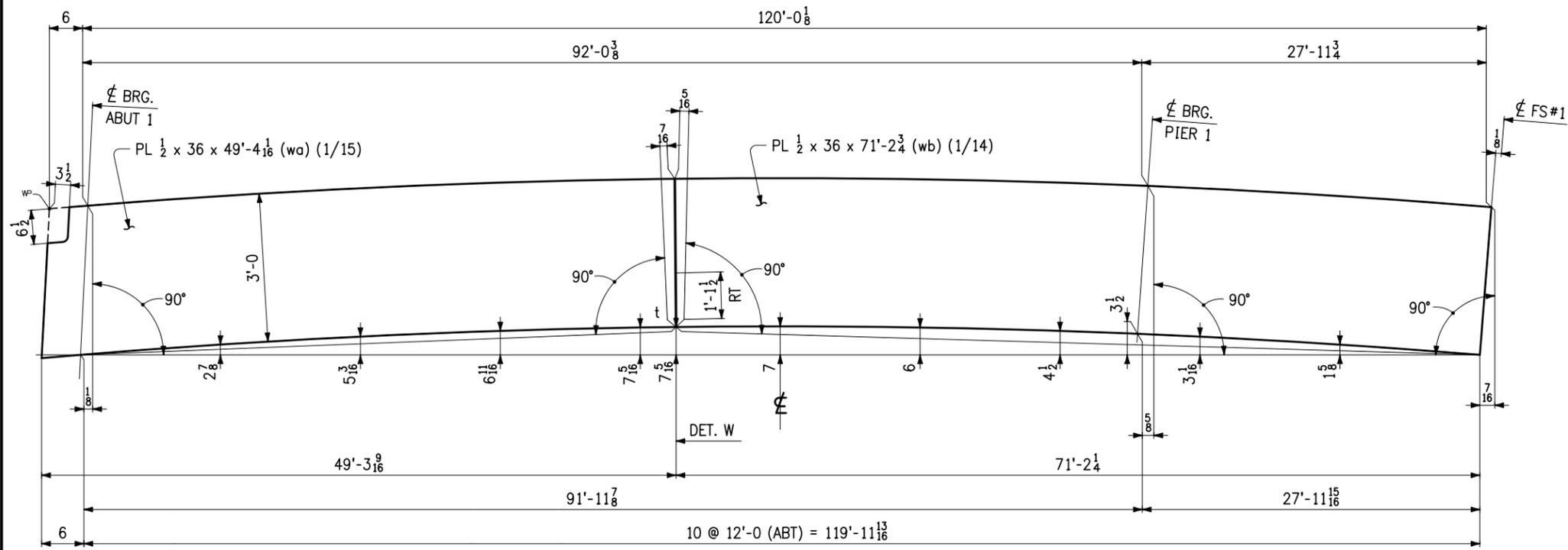
- MAT'L: M270-50WT2
- FOR GENERAL NOTES SEE SHT. GN1.
- "t" INDICATES WELDS SUBJECT TO TENSION.
- "RT" DENOTES RADIOGRAPHIC INSPECTION. DIMENSION SHOWN IS 1/6 THE WEB DEPTH PLUS 25% OF THE REMAINDER.



**FLANGE DIAGRAM FOR 1G1A & 2G2A**

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CUSTOMER	ALPINE CONSTRUCTION		
ITEM	WEB & FLANGE CUTTING DIAGRAMS		
SURFACE PREP.	OPEN HOLES		
PAIN			
APPROVAL	DRAWN DMM 12-5-14	SHEET NO. C1	JOB NO. 605
SHOP	CHECKED FM 1-2-15		

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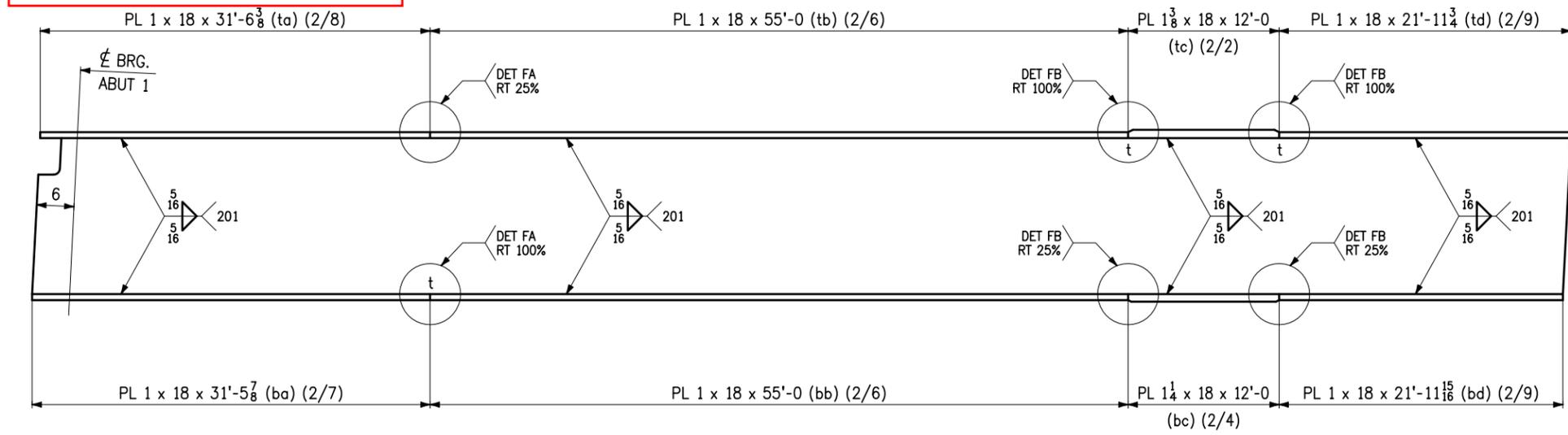
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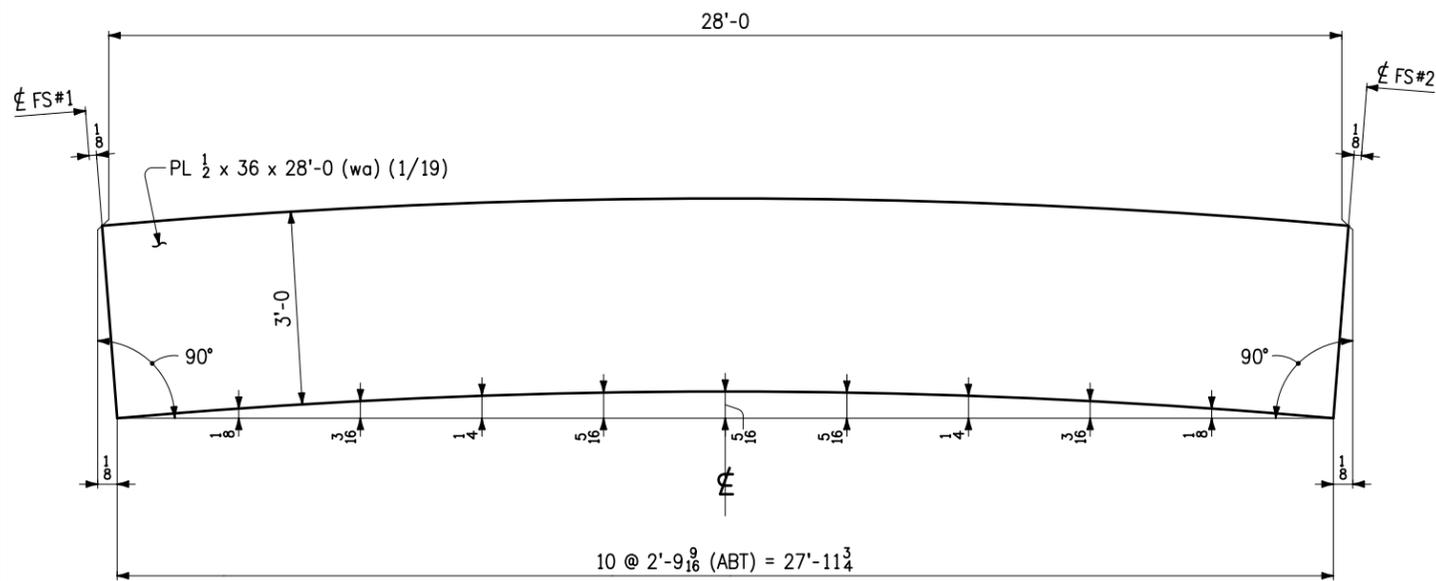
**CAMBER DIAGRAM FOR 3G3A, 4G4A & 5G5A**



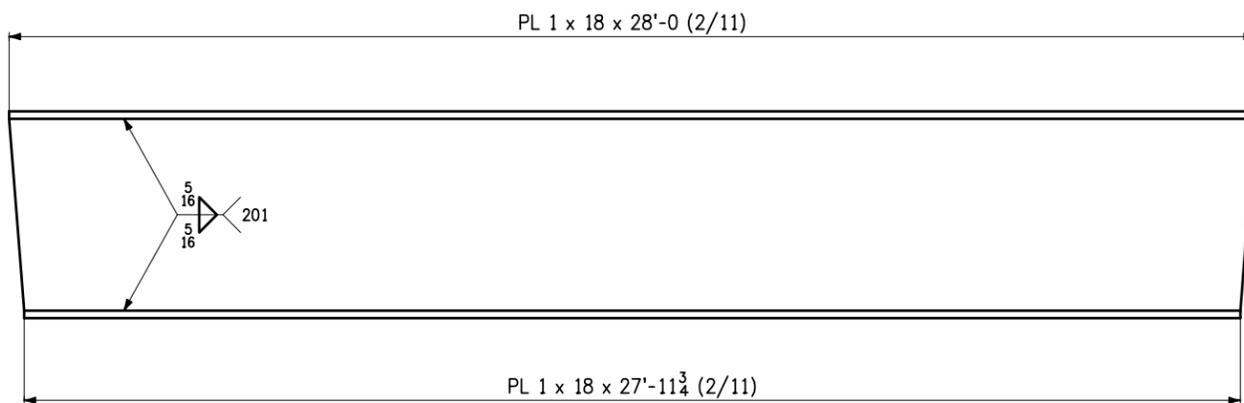
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CUSTOMER <u>ALPINE CONSTRUCTION</u>			
ITEM <u>WEB &amp; FLANGE CUTTING DIAGRAMS</u>			
SURFACE PREP. <u>OPEN HOLES</u>			
PAINT <u></u>			
APPROVAL	DRAWN <u>DMM</u>	12-5-14	SHEET NO. <u>C2</u>
SHOP	CHECKED <u>FM</u>	1-2-15	JOB NO. <u>605</u>



**CAMBER DIAGRAM FOR 6G1B, 7G2B, 8G3B, 9G4B & 10G5B**



**FLANGE DIAGRAM FOR 6G1B, 7G2B, 8G3B, 9G4B & 10G5B**

# T.Y. LIN INTERNATIONAL

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RICK HEBERT  
REVIEWER

2/2/2015  
DATE

**NOTES:**

1. MAT'L: M270-50WT2
2. FOR GENERAL NOTES SEE SHT. GN1.

Vermont Agency of Transportation

**RECEIVED**

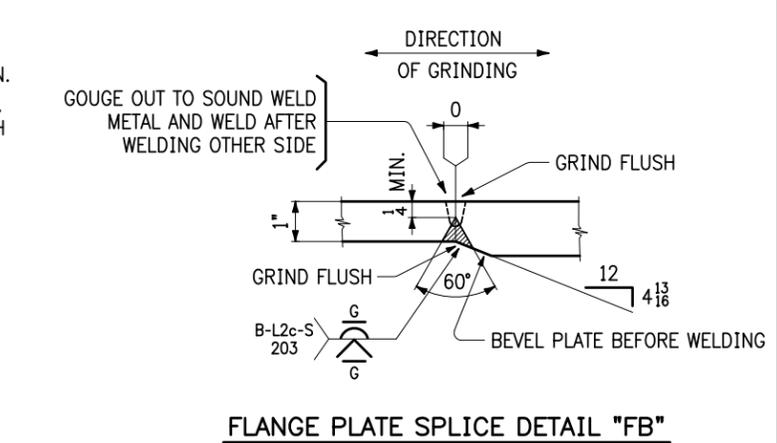
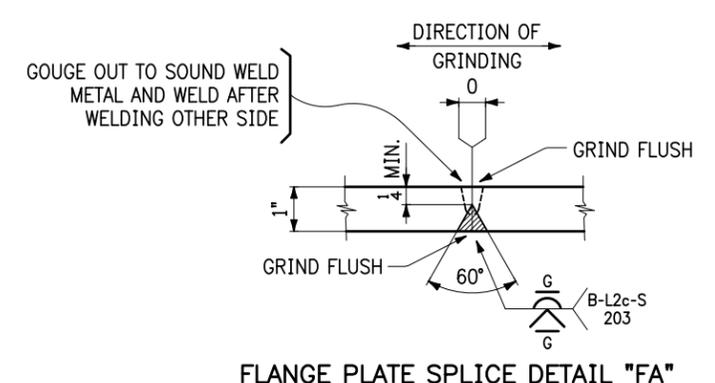
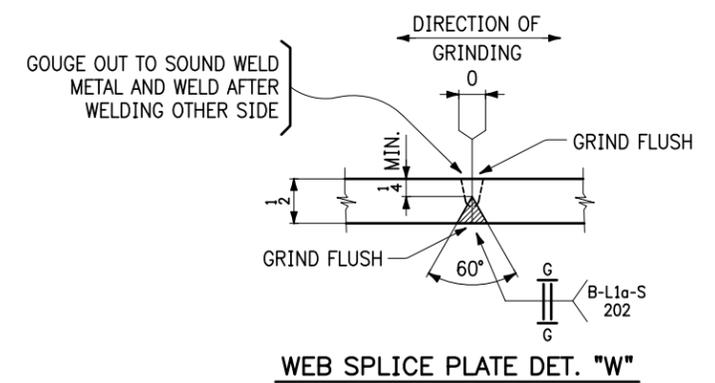
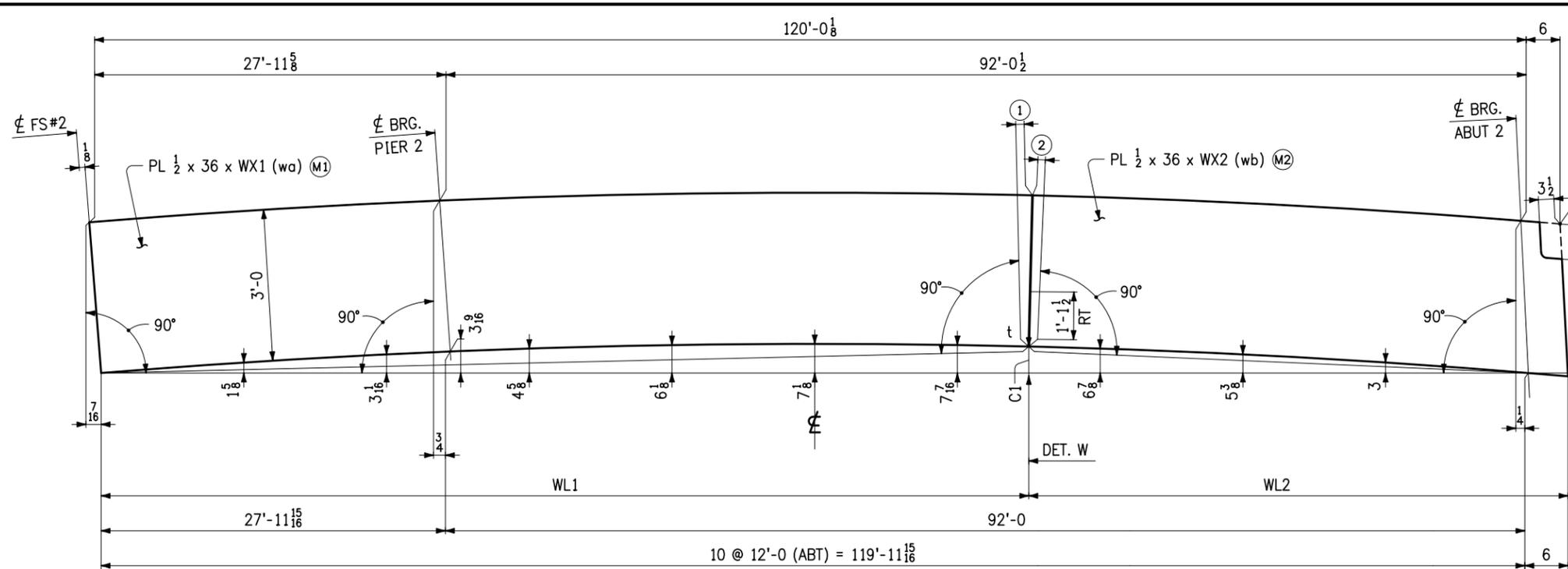
ON: **January 14, 2015**

and Checked for

**CONFORMANCE**

BY: **D Bonnaeu** DATE: **02/05/15**

NO.	DATE	REMARKS	BY
REVISIONS			
		<b>CASCO BAY STEEL STRUCTURES</b> <small>ONE WALLACE AVENUE SOUTH PORTLAND, ME 04106</small> <small>PHONE: 207-780-6722 FAX: 207-780-6726</small>	
STRUCTURE		BENMONT AVE. (TH-7) (URBAN MINOR ARTERIAL)	
LOCATION		TOWN OF BENNINGTON, VERMONT	
PROJECT NO.		BRIDGE NO. 57 PROJECT NO. BRF 1000(16)	
ENGINEER		STATE OF VERMONT AGENCY OF TRANSPORTATION	
CUSTOMER		ALPINE CONSTRUCTION	
ITEM		WEB & FLANGE CUTTING DIAGRAMS	
SURFACE PREP.		OPEN HOLES	
PAINT			
APPROVAL	DRAWN	DMM	12-8-14
SHOP	CHECKED	FM	1-2-15
SHEET NO.		JOB NO.	
<b>C3</b>		<b>605</b>	



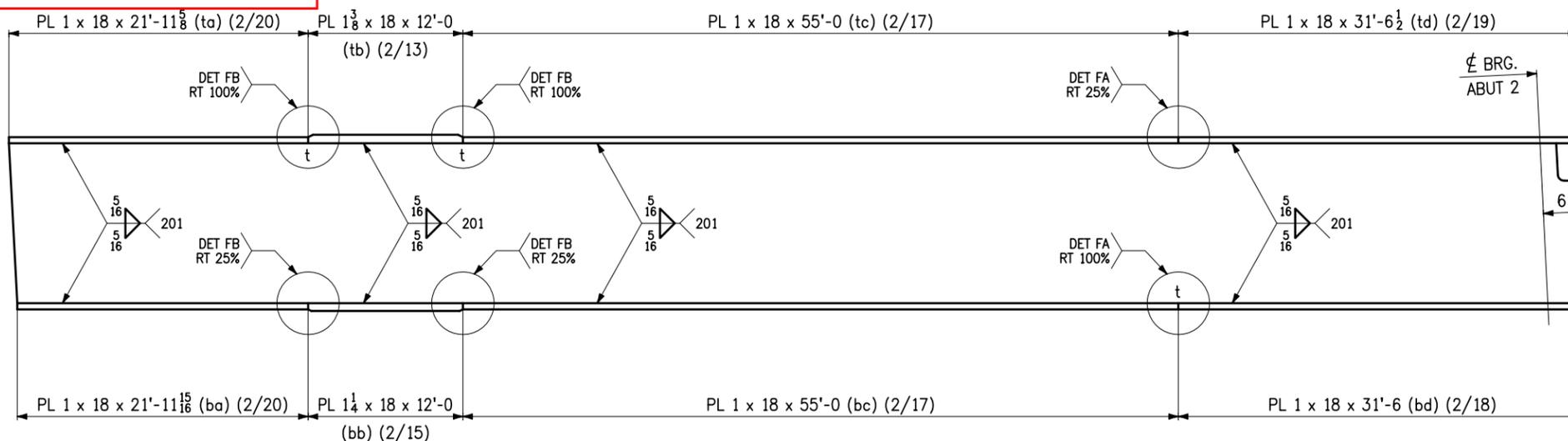
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 x APPROVED  
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 RICK HEBERT REVIEWER 2/2/2015 DATE

**CAMBER DIAGRAM FOR 11G1C, 12G2C & 13G3C**

MARK	WX1	WX2	WL1	WL2	C1	①	②	(M1)	(M2)
11G1C	73'-5 5/8	47'-1 3/8	73'-5 1/16	47'-0 7/8	7 7/16	3/8	7/16	1/23	1/26
12G2C	77'-6 11/16	43'-0 1/4	77'-6 1/8	42'-11 13/16	7 5/16	7/16	3/8	1/21	1/28
13G3C	74'-2 13/16	46'-4 1/8	74'-2 5/16	46'-3 5/8	7 7/16	3/8	7/16	1/22	1/27

**NOTES:**

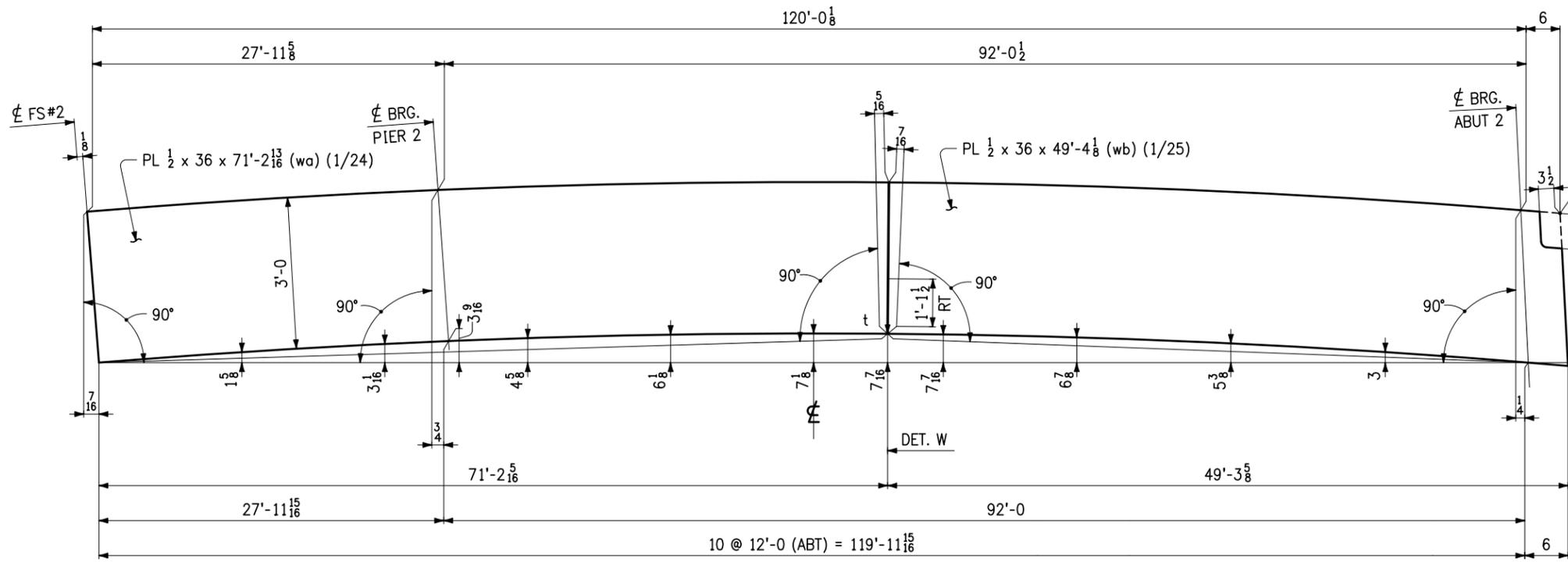
- MAT'L: M270-50WT2
- FOR GENERAL NOTES SEE SHT. GN1.
- "t" INDICATES WELDS SUBJECT TO TENSION.
- "RT" DENOTES RADIOGRAPHIC INSPECTION. DIMENSION SHOWN IS 1/6 THE WEB DEPTH PLUS 25% OF THE REMAINDER.



**FLANGE DIAGRAM FOR 11G1C, 12G2C & 13G3C**

Vermont Agency of Transportation  
**RECEIVED**  
 ON: **January 14, 2015**  
 and Checked for  
**CONFORMANCE**  
 BY: **D Bonneau** DATE: **02/05/15**

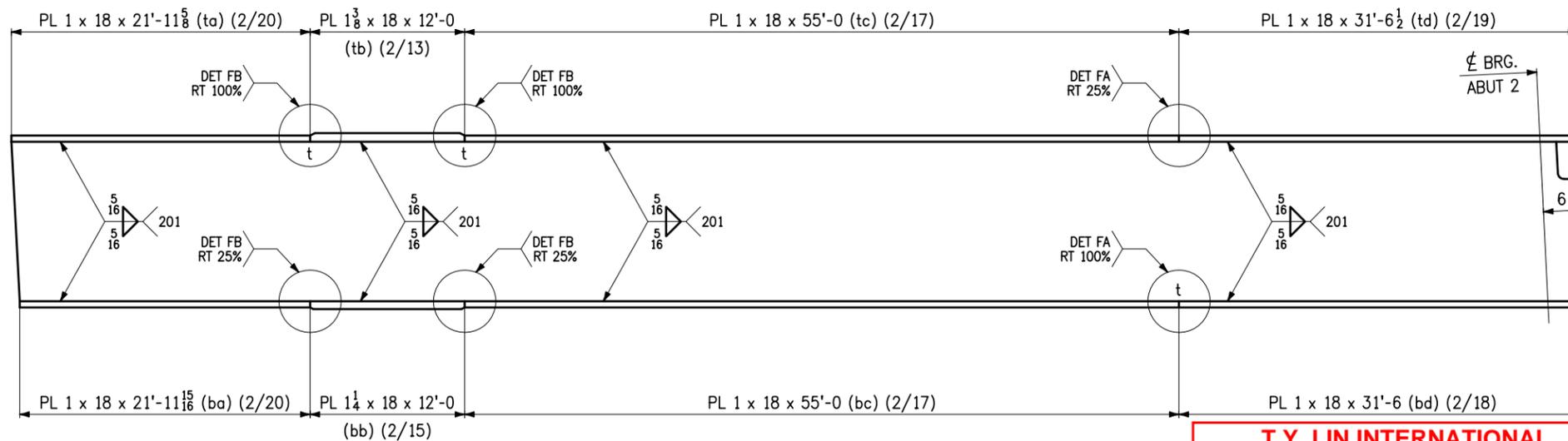
NO.	DATE	REMARKS	BY
REVISIONS			
		<b>CASCO BAY STEEL STRUCTURES</b> ONE WALLACE AVENUE PHONE: 207-780-6722 SOUTH PORTLAND, ME 04106 FAX: 207-780-6726	
STRUCTURE		BENMONT AVE. (TH-7) (URBAN MINOR ARTERIAL)	
LOCATION		TOWN OF BENNINGTON, VERMONT	
PROJECT NO.		BRIDGE NO. 57 PROJECT NO. BRF 1000(16)	
ENGINEER		STATE OF VERMONT AGENCY OF TRANSPORTATION	
CUSTOMER		ALPINE CONSTRUCTION	
ITEM		WEB & FLANGE CUTTING DIAGRAMS	
SURFACE PREP.		OPEN HOLES	
PAINT			
APPROVAL	DRAWN	DMM 12-5-14	SHEET NO. JOB NO.
SHOP	CHECKED	FM 1-2-15	<b>C4 605</b>



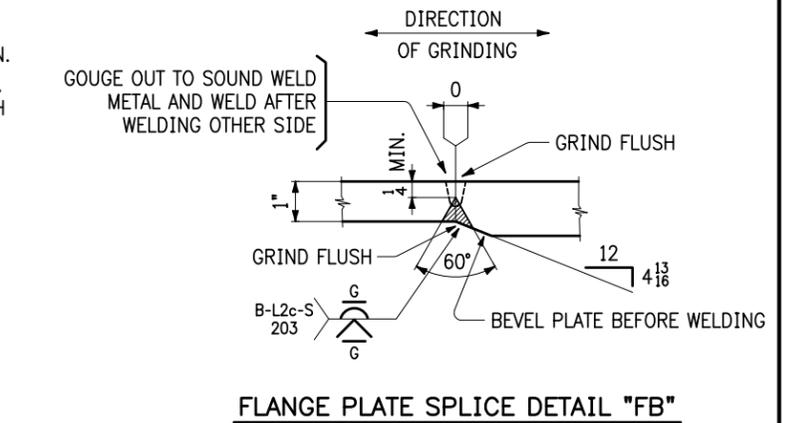
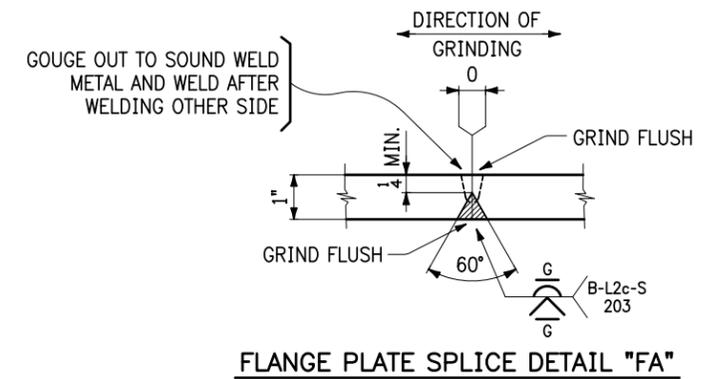
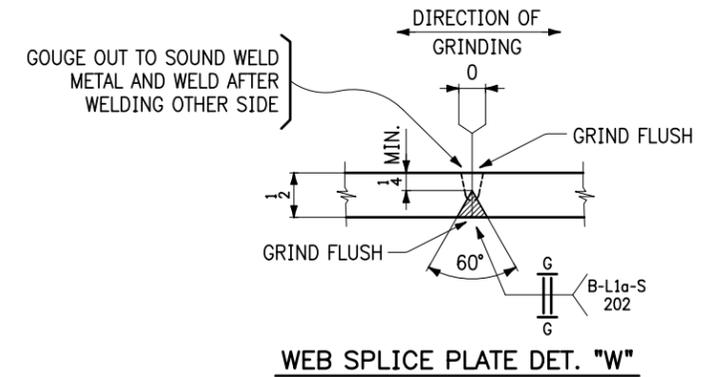
**CAMBER DIAGRAM FOR 14G4C & 15G5C**

**NOTES:**

1. MAT'L: M270-50WT2
2. FOR GENERAL NOTES SEE SHT. GN1.
3. "t" INDICATES WELDS SUBJECT TO TENSION.
4. "RT" DENOTES RADIOGRAPHIC INSPECTION. DIMENSION SHOWN IS 1/6 THE WEB DEPTH PLUS 25% OF THE REMAINDER.



**FLANGE DIAGRAM FOR 14G4C & 15G5C**



NO.	DATE	REMARKS	BY
REVISIONS			
		<b>CASCO BAY STEEL STRUCTURES</b> ONE WALLACE AVENUE PHONE: 207-780-6722 SOUTH PORTLAND, ME 04106 FAX: 207-780-6726	
STRUCTURE	BENMONT AVE. (TH-7) (URBAN MINOR ARTERIAL)		
LOCATION	TOWN OF BENNINGTON, VERMONT		
PROJECT NO.	BRIDGE NO. 57 PROJECT NO. BRF 1000(16)		
ENGINEER	STATE OF VERMONT AGENCY OF TRANSPORTATION		
CUSTOMER	ALPINE CONSTRUCTION		
ITEM	WEB & FLANGE CUTTING DIAGRAMS		
SURFACE PREP.	OPEN HOLES		
PAIN			
APPROVAL	DRAWN DMM 12-5-14	SHEET NO. C5	JOB NO. 605
SHOP	CHECKED FM 1-2-15		

**T.Y. LIN INTERNATIONAL**

THE STAMPED DOCUMENTS ARE HEREBY:

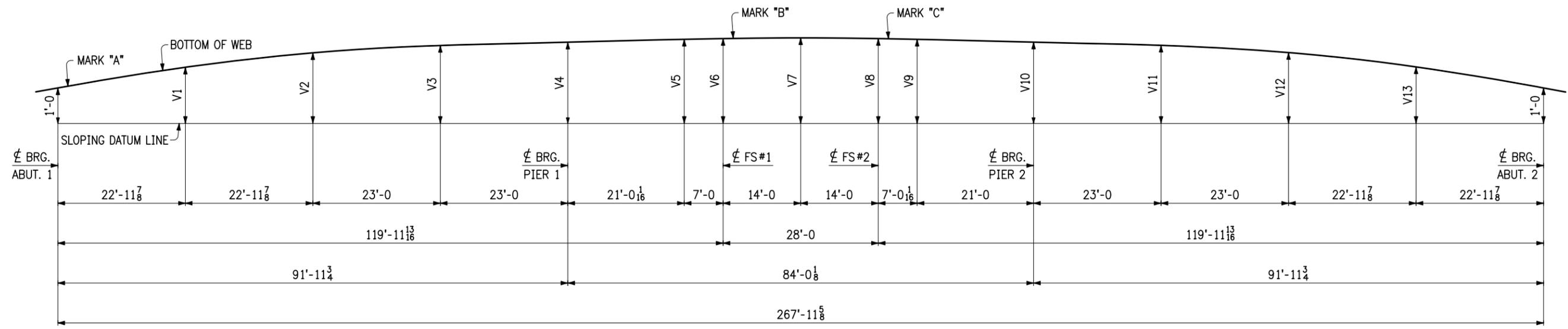
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RICK HEBERT REVIEWER 2/2/2015 DATE

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**BLOCKING DIAGRAMS**

LINE	V1	V2	V3	V4	V5	V6	V7	V8	V9	V10	V11	V12	V13
1 & 2	1'-9 <sup>5</sup> / <sub>16</sub>	2'-3 <sup>13</sup> / <sub>16</sub>	2'-7 <sup>1</sup> / <sub>8</sub>	2'-8 <sup>5</sup> / <sub>8</sub>	2'-9 <sup>15</sup> / <sub>16</sub>	2'-10 <sup>1</sup> / <sub>4</sub>	2'-10 <sup>8</sup> / <sub>16</sub>	2'-10 <sup>1</sup> / <sub>4</sub>	2'-9 <sup>15</sup> / <sub>16</sub>	2'-8 <sup>5</sup> / <sub>8</sub>	2'-7 <sup>3</sup> / <sub>16</sub>	2'-3 <sup>15</sup> / <sub>16</sub>	1'-9 <sup>1</sup> / <sub>2</sub>
3	1'-9 <sup>5</sup> / <sub>16</sub>	2'-3 <sup>13</sup> / <sub>16</sub>	2'-7 <sup>1</sup> / <sub>16</sub>	2'-8 <sup>9</sup> / <sub>16</sub>	2'-9 <sup>7</sup> / <sub>8</sub>	2'-10 <sup>3</sup> / <sub>16</sub>	2'-10 <sup>1</sup> / <sub>2</sub>	2'-10 <sup>3</sup> / <sub>16</sub>	2'-9 <sup>7</sup> / <sub>8</sub>	2'-8 <sup>9</sup> / <sub>16</sub>	2'-7 <sup>3</sup> / <sub>16</sub>	2'-3 <sup>15</sup> / <sub>16</sub>	1'-9 <sup>7</sup> / <sub>16</sub>
4	1'-9 <sup>1</sup> / <sub>4</sub>	2'-3 <sup>3</sup> / <sub>4</sub>	2'-7	2'-8 <sup>7</sup> / <sub>16</sub>	2'-9 <sup>3</sup> / <sub>4</sub>	2'-10 <sup>1</sup> / <sub>16</sub>	2'-10 <sup>7</sup> / <sub>16</sub>	2'-10 <sup>1</sup> / <sub>8</sub>	2'-9 <sup>13</sup> / <sub>16</sub>	2'-8 <sup>1</sup> / <sub>2</sub>	2'-7 <sup>1</sup> / <sub>8</sub>	2'-3 <sup>7</sup> / <sub>8</sub>	1'-9 <sup>7</sup> / <sub>16</sub>
5	1'-9 <sup>3</sup> / <sub>16</sub>	2'-3 <sup>5</sup> / <sub>8</sub>	2'-6 <sup>7</sup> / <sub>8</sub>	2'-8 <sup>1</sup> / <sub>4</sub>	2'-9 <sup>9</sup> / <sub>16</sub>	2'-9 <sup>15</sup> / <sub>16</sub>	2'-10 <sup>1</sup> / <sub>4</sub>	2'-10	2'-9 <sup>11</sup> / <sub>16</sub>	2'-8 <sup>7</sup> / <sub>16</sub>	2'-7 <sup>1</sup> / <sub>16</sub>	2'-3 <sup>13</sup> / <sub>16</sub>	1'-9 <sup>7</sup> / <sub>16</sub>

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 BY: **D Bonneau** DATE: **02/05/15**

**NOTES:**

- FOR GENERAL NOTES, SEE DWG. GN1.
- ALL DIMENSIONS GIVEN AT BOTTOM OF WEB.

**T.Y. LIN INTERNATIONAL**

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**RICK HEBERT**  
 REVIEWER

**2/2/2015**  
 DATE

NO.	DATE	REMARKS	BY
REVISIONS			
		<b>CASCO BAY STEEL STRUCTURES</b> <small>ONE WALLACE AVENUE SOUTH PORTLAND, ME 04106 PHONE: 207-780-6722 FAX: 207-780-6726</small>	
STRUCTURE		BENMONT AVE. (TH-7) (URBAN MINOR ARTERIAL)	
LOCATION		TOWN OF BENNINGTON, VERMONT	
PROJECT NO.		BRIDGE NO. 57 PROJECT NO. BRF 1000(16)	
ENGINEER		STATE OF VERMONT AGENCY OF TRANSPORTATION	
CUSTOMER		ALPINE CONSTRUCTION	
ITEM		SHOP ASSEMBLY DIAGRAMS	
SURFACE PREP.		OPEN HOLES	
PAINT			
APPROVAL	DRAWN <i>MAY</i>	12-8-14	SHEET NO. <b>SA1</b>
SHOP	CHECKED <i>GDC</i>	12-11-14	JOB NO. <b>605</b>



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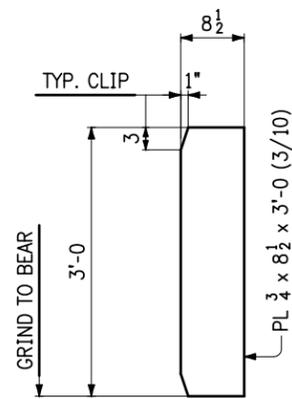
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- REVISE AND RESUBMIT

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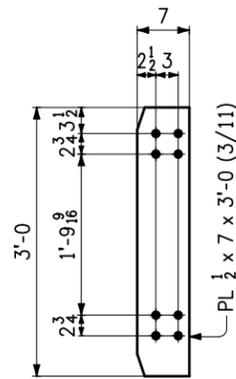
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RICK HEBERT  
REVIEWER

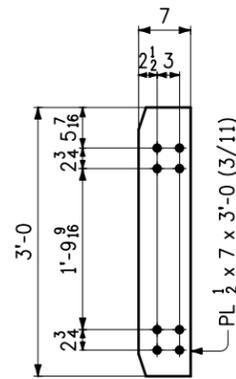
2/2/2015  
DATE



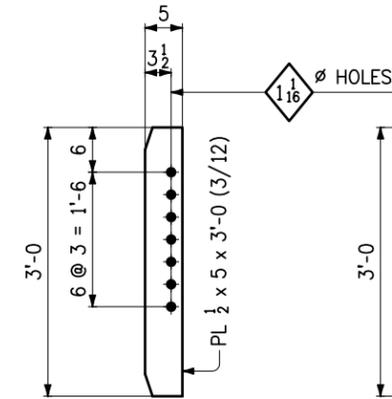
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(@ ABUT. & PIER - BRG. STIFF)



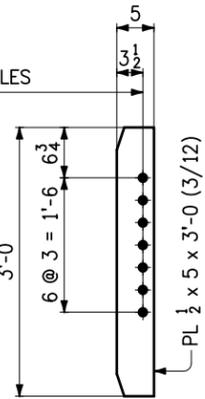
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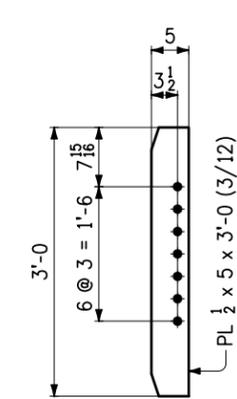
**DET. OF PC. ~ x2c**  
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(CROSSFRAME CONN. PL. HIGH)



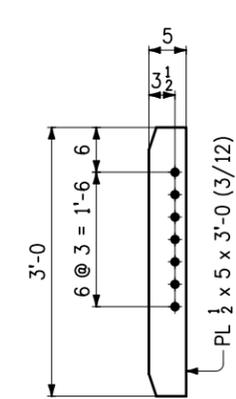
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(DIAPHRAGM CONN. PL. LOW ~ LINE 4)



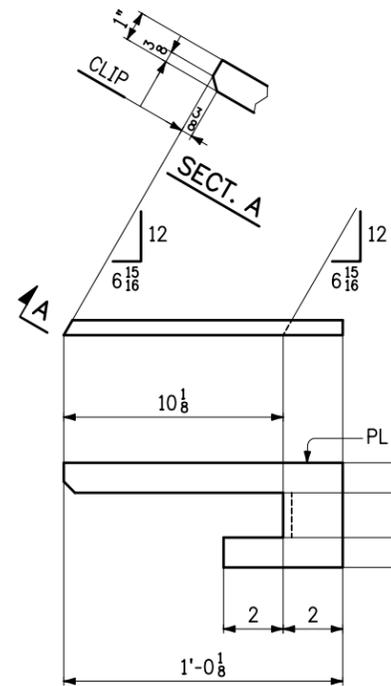
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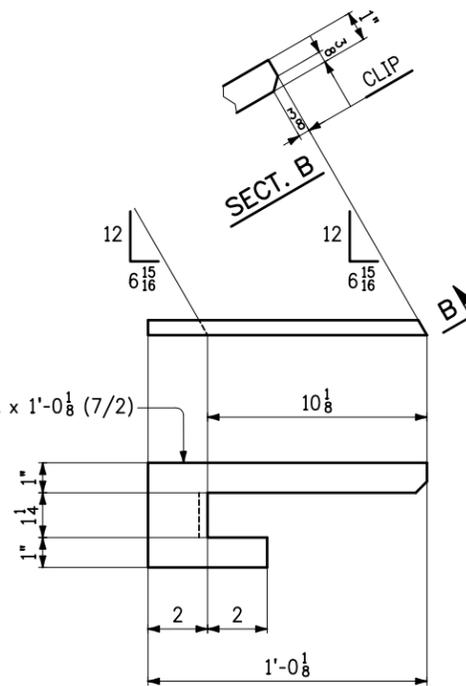
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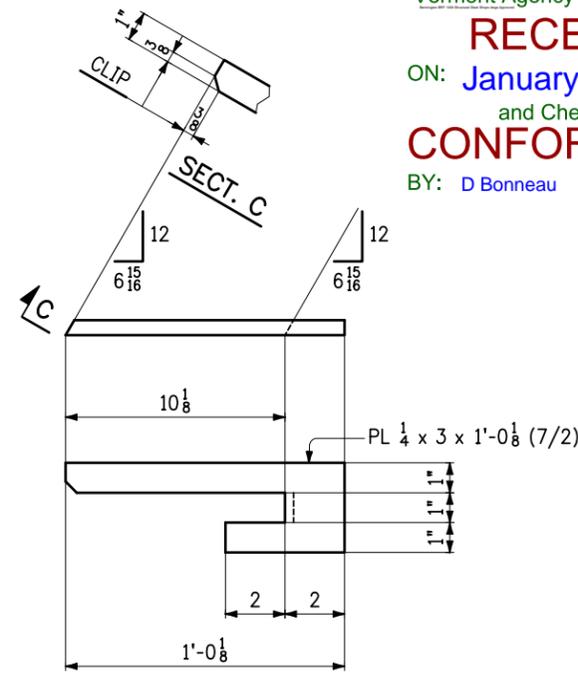
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(15 ~ REQ'D)  
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**2 ~ DRIP BARS ~ x2n**  
(PIER 1 LINE 1)  
(PIER 2 LINE 5)

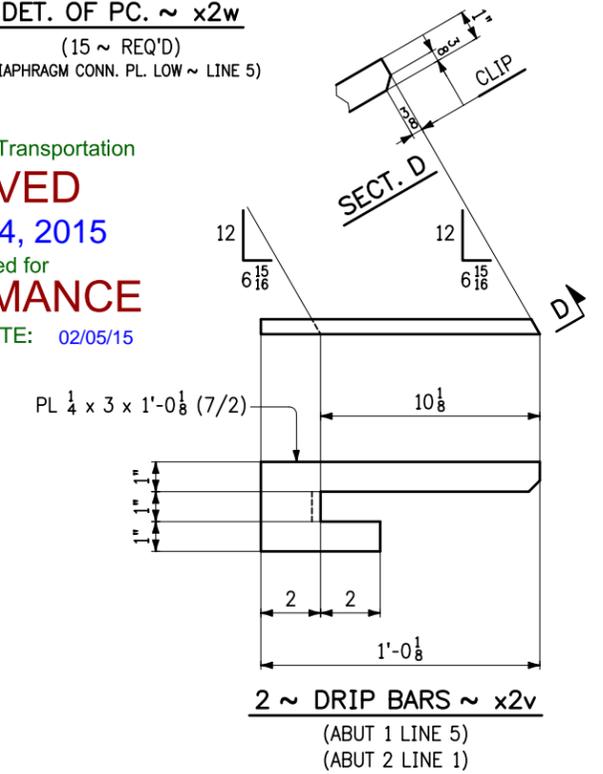


**2 ~ DRIP BARS ~ x2p**  
(PIER 1 LINE 5)  
(PIER 2 LINE 1)

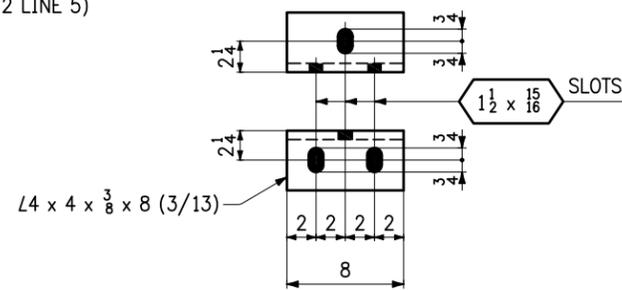


**2 ~ DRIP BARS ~ x2t**  
(ABUT 1 LINE 1)  
(ABUT 2 LINE 5)

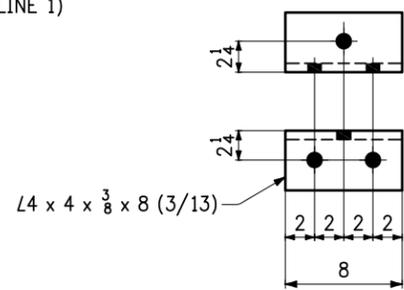
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**CONFORMANCE**  
BY: **D Bonneau** DATE: **02/05/15**



**2 ~ DRIP BARS ~ x2v**  
(ABUT 1 LINE 5)  
(ABUT 2 LINE 1)



**13 ~ SUPPORT ANGLES MK. x2k**  
(UTILITY SUPPORT GDR. LINE 3)



**13 ~ SUPPORT ANGLES MK. x2m**  
(UTILITY SUPPORT GDR. LINE 2)

**NOTES:**

- FOR GENERAL NOTES, SEE SHT. GN1.
- MATERIAL TO BE M270-50W.

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REVISIONS			
		<b>CASCO BAY STEEL STRUCTURES</b> ONE WALLACE AVENUE PHONE: 207-780-6722 SOUTH PORTLAND, ME 04106 FAX: 207-780-6726	
STRUCTURE		BENMONT AVE. (TH-7) (URBAN MINOR ARTERIAL)	
LOCATION		TOWN OF BENNINGTON, VERMONT	
PROJECT NO.		BRIDGE NO. 57 PROJECT NO. BRF 1000(16)	
ENGINEER		STATE OF VERMONT AGENCY OF TRANSPORTATION	
CUSTOMER		ALPINE CONSTRUCTION	
ITEM		GIRDER STANDARDS	
SURFACE PREP.		OPEN HOLES 15/16 (UN)	
PAINT			
APPROVAL	DRAWN	GDC 12-5-14	SHEET NO. X2
SHOP	CHECKED	FM 12-30-14	JOB NO. 605

Spacing of waterline support beams are not all at 9'-0" spaces as shown on Contract Drawing Sheet 39 of 75. Maximum variation appears to be 9". The increase in span is acceptable, however the Contractor should refer to the Special Provision (Water Main on Bridge) to ensure compliance with the hanger distance to pipe joint requirements are also met.

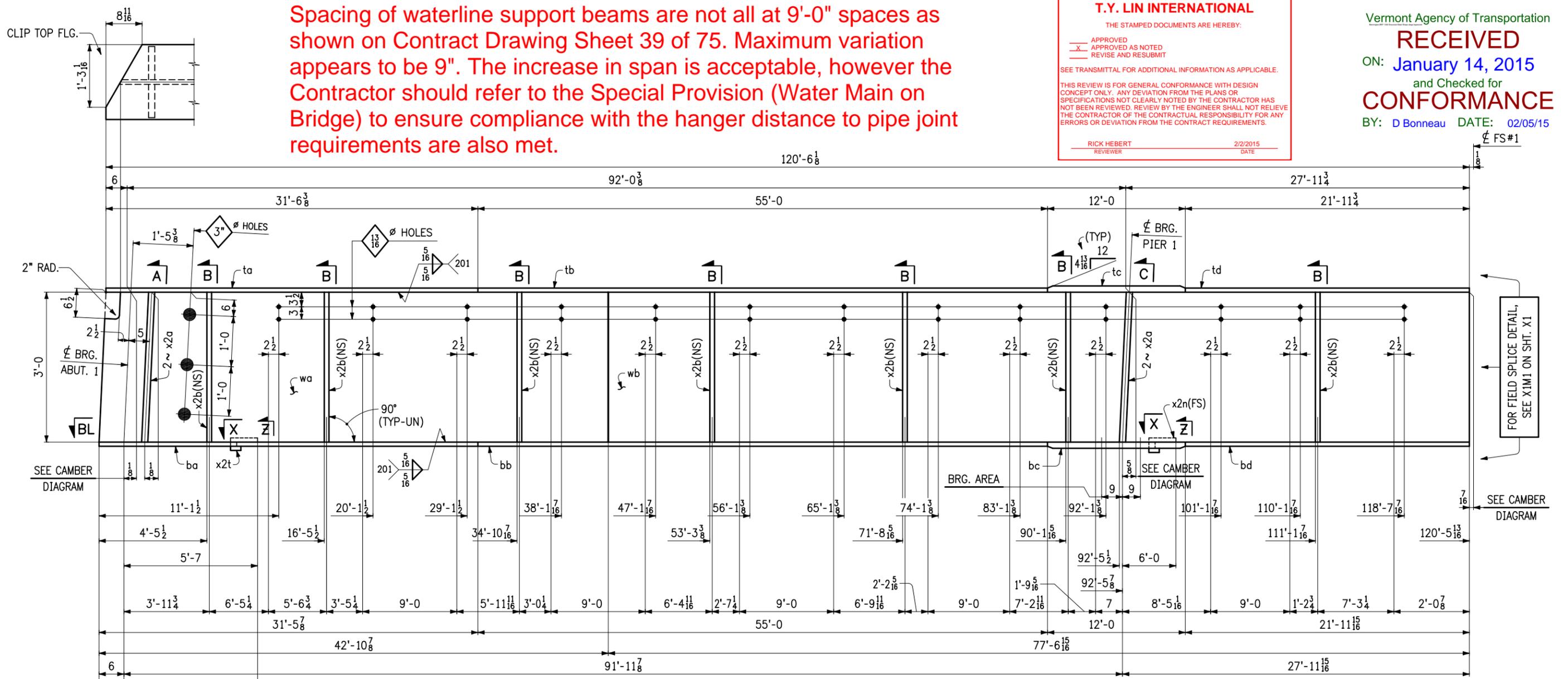
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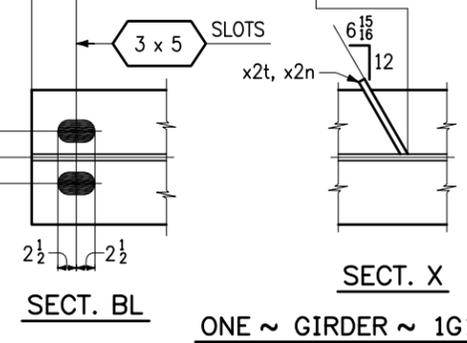
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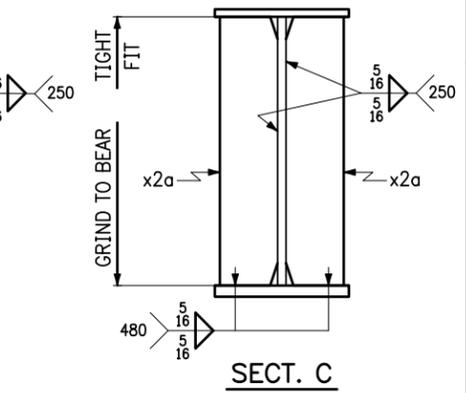
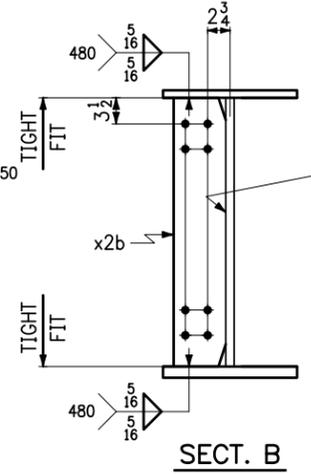
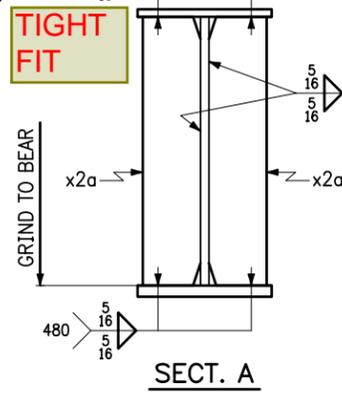
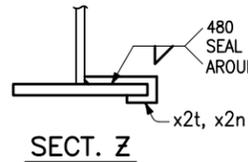


FOR FIELD SPLICE DETAIL, SEE X1M1 ON SHT. X1

SEE CAMBER DIAGRAM



- ONE ~ GIRDER ~ 1G1A
- FOR GIRDER STANDARD DETAILS, SEE SHT. X2.
  - FOR WEB CUTTING DIAGRAM, SEE SHT. C1.
  - FOR FLANGE CUTTING DIAGRAMS, SEE SHT. C1.
  - FOR GENERAL NOTES, SEE SHT. GN1.
  - "BRG. AREA" INDICATES AREA THAT MUST BE FLAT TO PROVIDE A UNIFORM EVEN CONTACT WITH SOLE PLATE.



NO.	DATE	REMARKS	BY
REVISIONS			
		<b>CASCO BAY STEEL STRUCTURES</b> ONE WALLACE AVENUE PHONE: 207-780-6722 SOUTH PORTLAND, ME 04106 FAX: 207-780-6726	
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PROJECT NO. <u>BRIDGE NO. 57 PROJECT NO. BRF 1000(16)</u>			
ENGINEER <u>STATE OF VERMONT AGENCY OF TRANSPORTATION</u>			
CUSTOMER <u>ALPINE CONSTRUCTION</u>			
ITEM <u>GIRDER ~ 1G1A</u>			
SURFACE PREP. <u>SSPC-SP10</u> OPEN HOLES <u>15/16" (UN)</u>			
PAINT <u>NONE</u>			
APPROVAL	DRAWN <u>GDC</u> 12-5-14	SHEET NO. <u>1AB</u>	JOB NO. <u>605</u>
SHOP	CHECKED <u>FM</u> 1-3-15		



- X APPROVED
- APPROVED AS NOTED
- REVISE AND RESUBMIT

SEE TRANSMITTAL FOR ADDITIONAL INFORMATION AS APPLICABLE.

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RICK HEBERT  
REVIEWER

2/2/2015  
DATE

Vermont Agency of Transportation

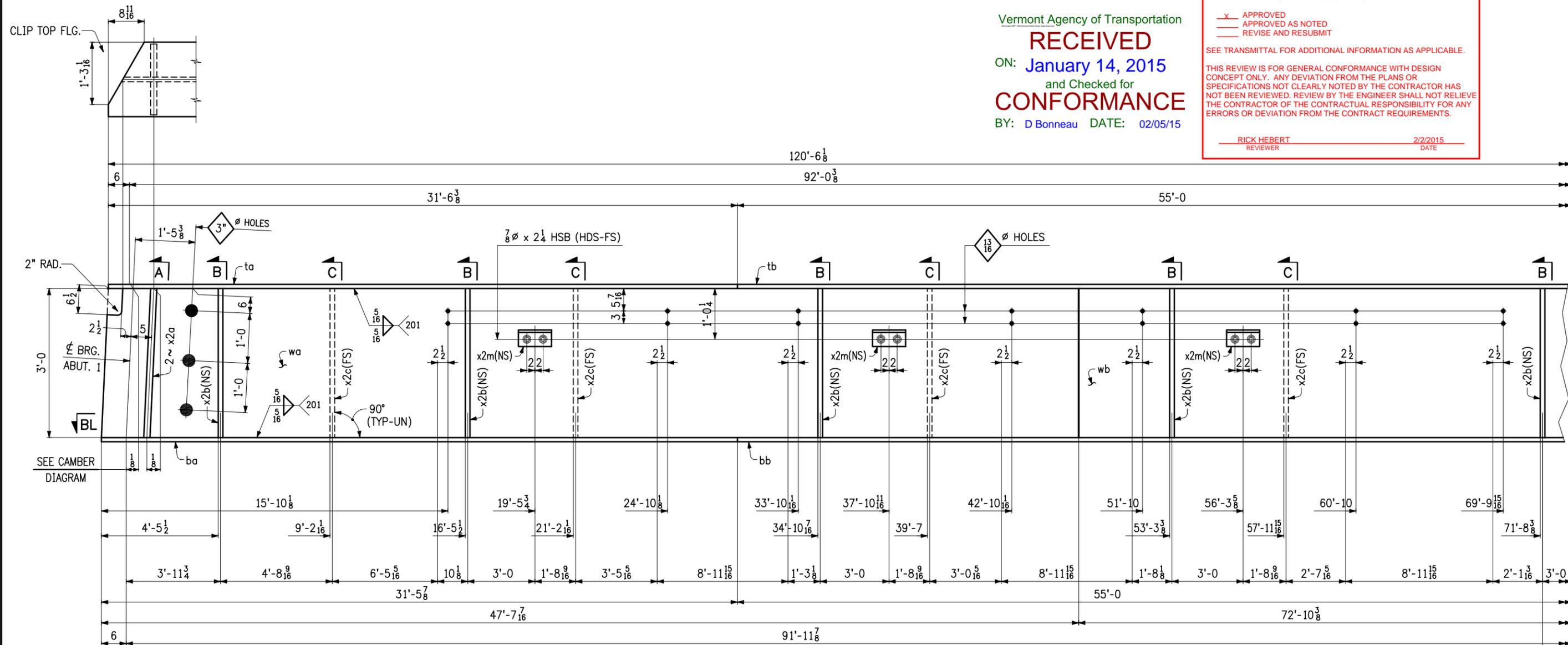
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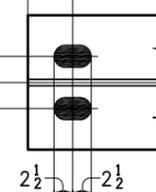
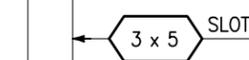
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CONFORMANCE

BY: D Bonneau DATE: 02/05/15



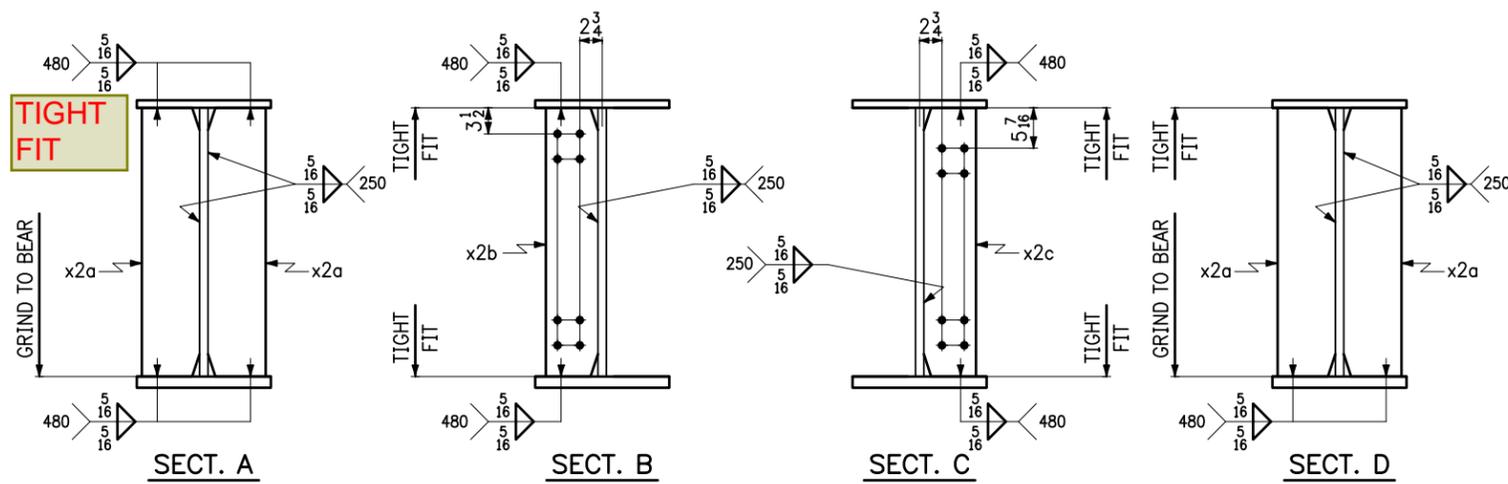
MATCHLINE  
CONT'D ON SHT. 2B



SECT. BL

ONE ~ GIRDER ~ 2G2A

- FOR GIRDER STANDARD DETAILS, SEE SHT. X2.
- FOR WEB CUTTING DIAGRAM, SEE SHT. C1.
- FOR FLANGE CUTTING DIAGRAMS, SEE SHT. C1.
- FOR GENERAL NOTES, SEE SHT. GN1.
- "BRG. AREA" INDICATES AREA THAT MUST BE FLAT TO PROVIDE A UNIFORM EVEN CONTACT WITH SOLE PLATE.



NO.	DATE	REMARKS	BY
REVISIONS			
		<b>CASCO BAY STEEL STRUCTURES</b> ONE WALLACE AVENUE      PHONE: 207-780-6722 SOUTH PORTLAND, ME 04106      FAX: 207-780-6726	
STRUCTURE		BENMONT AVE. (TH-7) (URBAN MINOR ARTERIAL)	
LOCATION		TOWN OF BENNINGTON, VERMONT	
PROJECT NO.		BRIDGE NO. 57      PROJECT NO. BRF 1000(16)	
ENGINEER		STATE OF VERMONT AGENCY OF TRANSPORTATION	
CUSTOMER		ALPINE CONSTRUCTION	
ITEM		GIRDER ~ 2G2A	
SURFACE PREP.		SSPC-SP10      OPEN HOLES 15/16" (UN)	
PAINT		NONE	
APPROVAL	DRAWN	12-8-14	SHEET NO.
SHOP	CHECKED	1-3-15	JOB NO.
			2AB      605



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RICK HEBERT  
REVIEWER

2/2/2015  
DATE

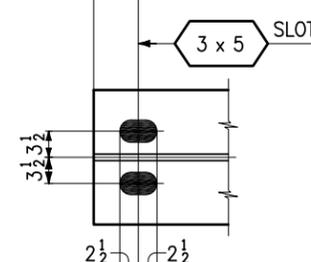
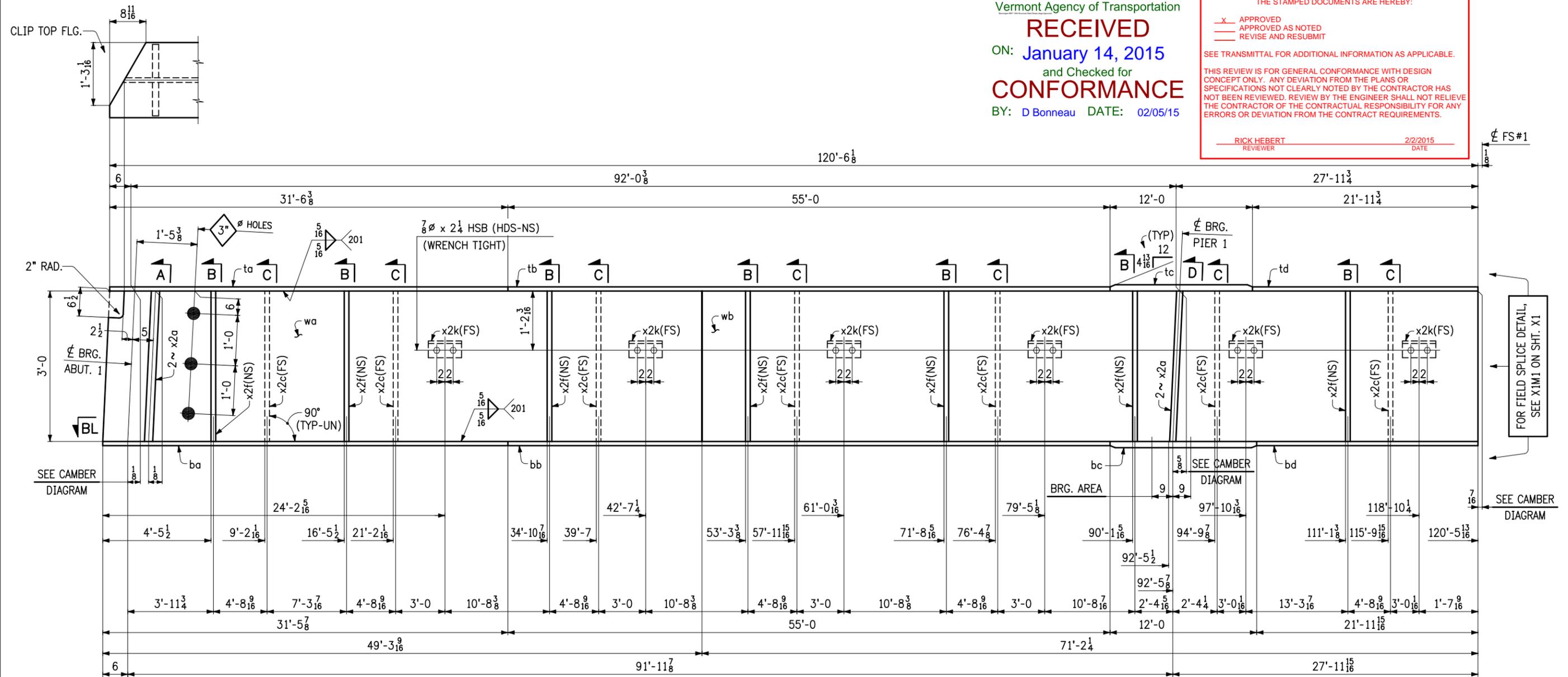
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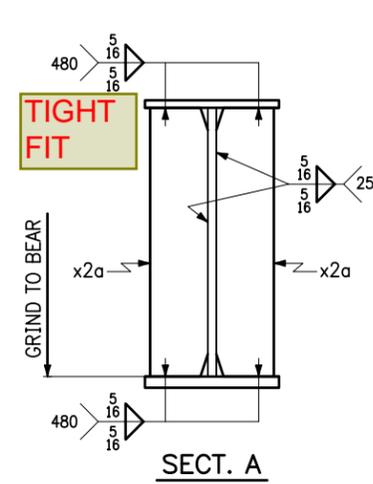
BY: D Bonneau DATE: 02/05/15



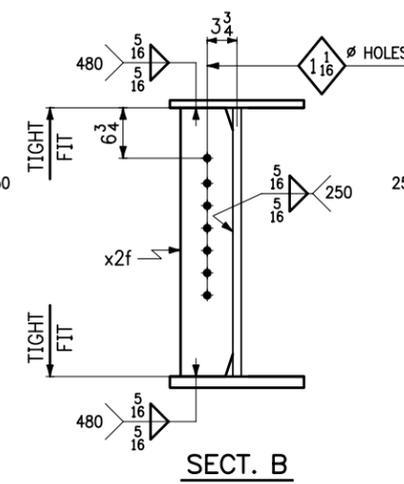
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ONE ~ GIRDER ~ 3G3A

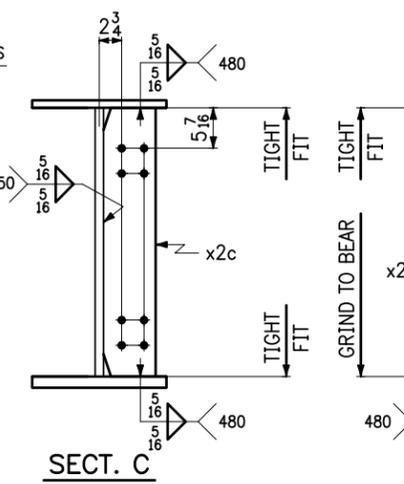
- FOR GIRDER STANDARD DETAILS, SEE SHT. X2.
- FOR WEB CUTTING DIAGRAM, SEE SHT. C2.
- FOR FLANGE CUTTING DIAGRAMS, SEE SHT. C2.
- FOR GENERAL NOTES, SEE SHT. GN1.
- "BRG. AREA" INDICATES AREA THAT MUST BE FLAT TO PROVIDE A UNIFORM EVEN CONTACT WITH SOLE PLATE.



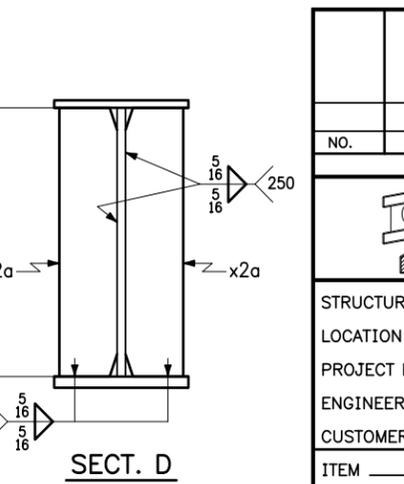
SECT. A



SECT. B

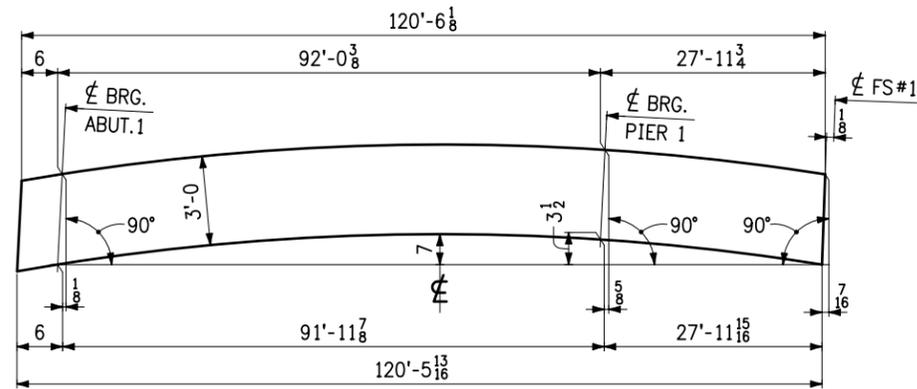


SECT. C



SECT. D

NO.	DATE	REMARKS	BY
REVISIONS			
		<b>CASCO BAY STEEL STRUCTURES</b> ONE WALLACE AVENUE      PHONE: 207-780-6722 SOUTH PORTLAND, ME 04106      FAX: 207-780-6726	
STRUCTURE		BENMONT AVE. (TH-7) (URBAN MINOR ARTERIAL)	
LOCATION		TOWN OF BENNINGTON, VERMONT	
PROJECT NO.		BRIDGE NO. 57      PROJECT NO. BRP 1000(16)	
ENGINEER		STATE OF VERMONT AGENCY OF TRANSPORTATION	
CUSTOMER		ALPINE CONSTRUCTION	
ITEM		GIRDER ~ 3G3A	
SURFACE PREP.		SSPC-SP10      OPEN HOLES 1 5/16" (UN)	
PAINT		NONE	
APPROVAL	DRAWN	GDC 12-5-14	SHEET NO. 3AB
SHOP	CHECKED	FM 1-5-15	JOB NO. 605



CAMBER DIAGRAM

LINE	NO. OF PCS.	SHIP MARK	ASSY MARK	MATERIAL					REMARKS	
				SHAPE	SECTION	LENGTH FT.	IN.	MATERIAL SPEC.		ITEM NO.
1	1	3G3A			GIRDER					23,334 lbs.
2	1		wa	PL	1/2 x 36	49	4 1/8	M270-50WT2	1 15	3022 lbs.
3	1		wb	PL	1/2 x 36	71	2 3/4	M270-50WT2	1 14	4363 lbs.
4	1		ta	PL	1 x 18	31	6 3/8	M270-50WT2	2 8	1931 lbs.
5	1		tb	PL	1 x 18	55	0	M270-50WT2	2 6	3369 lbs.
6	1		tc	PL	1 3/8 x 18	12	0	M270-50WT2	2 2	1011 lbs.
7	1		td	PL	1 x 18	21	11 3/4	M270-50WT2	2 9	1346 lbs.
8	1		ba	PL	1 x 18	31	5 3/4	M270-50WT2	2 7	1929 lbs.
9	1		bb	PL	1 x 18	55	0	M270-50WT2	2 6	3369 lbs.
10	1		bc	PL	1 1/4 x 18	12	0	M270-50WT2	2 4	919 lbs.
11	1		bd	PL	1 x 18	21	11 15/16	M270-50WT2	2 9	1347 lbs.
12										
13	4		x2a	PL	3/4 x 8 1/2	3	0	M270-50W	3 10	GIE 260 lbs.
14	7		x2c	PL	1/2 x 7	3	0	M270-50W	3 11	250 lbs.
15	7		x2f	PL	1/2 x 5	3	0	M270-50W	3 12	179 lbs.
16	6		x2k	L	4 x 4 x 3/8	0	8	M270-50W	3 13	39 lbs.
17										
18	12				7/8 HSB	0	2 1/4	M164 TYPE 3	6 2	
19	12				7/8 WASHER			M293-3	6 6	
20										
21										
22										
23										
24										
25										

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 ON: **January 14, 2015**  
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**CONFORMANCE**  
 BY: **D Bonneau** DATE: **02/05/15**

**T.Y. LIN INTERNATIONAL**

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RICK HEBERT 2/2/2015  
 REVIEWER DATE

NO.	DATE	REMARKS	BY
REVISIONS			
		<b>CASCO BAY STEEL STRUCTURES</b> <small>ONE WALLACE AVENUE SOUTH PORTLAND, ME 04106 PHONE: 207-780-6722 FAX: 207-780-6726</small>	
STRUCTURE		BENMONT AVE. (TH-7) (URBAN MINOR ARTERIAL)	
LOCATION		TOWN OF BENNINGTON, VERMONT	
PROJECT NO.		BRIDGE NO. 57 PROJECT NO. BRF 1000(16)	
ENGINEER		STATE OF VERMONT AGENCY OF TRANSPORTATION	
CUSTOMER		ALPINE CONSTRUCTION	
ITEM		GIRDER ~ 3G3A	
SURFACE PREP.		SSPC-SP10 OPEN HOLES	
PAINT		NONE	
APPROVAL	DRAWN	GDC 12-9-14	SHEET NO. 3B
SHOP	CHECKED	FM 1-5-15	JOB NO. 605

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RICK HEBERT  
REVIEWER

2/2/2015  
DATE

Vermont Agency of Transportation

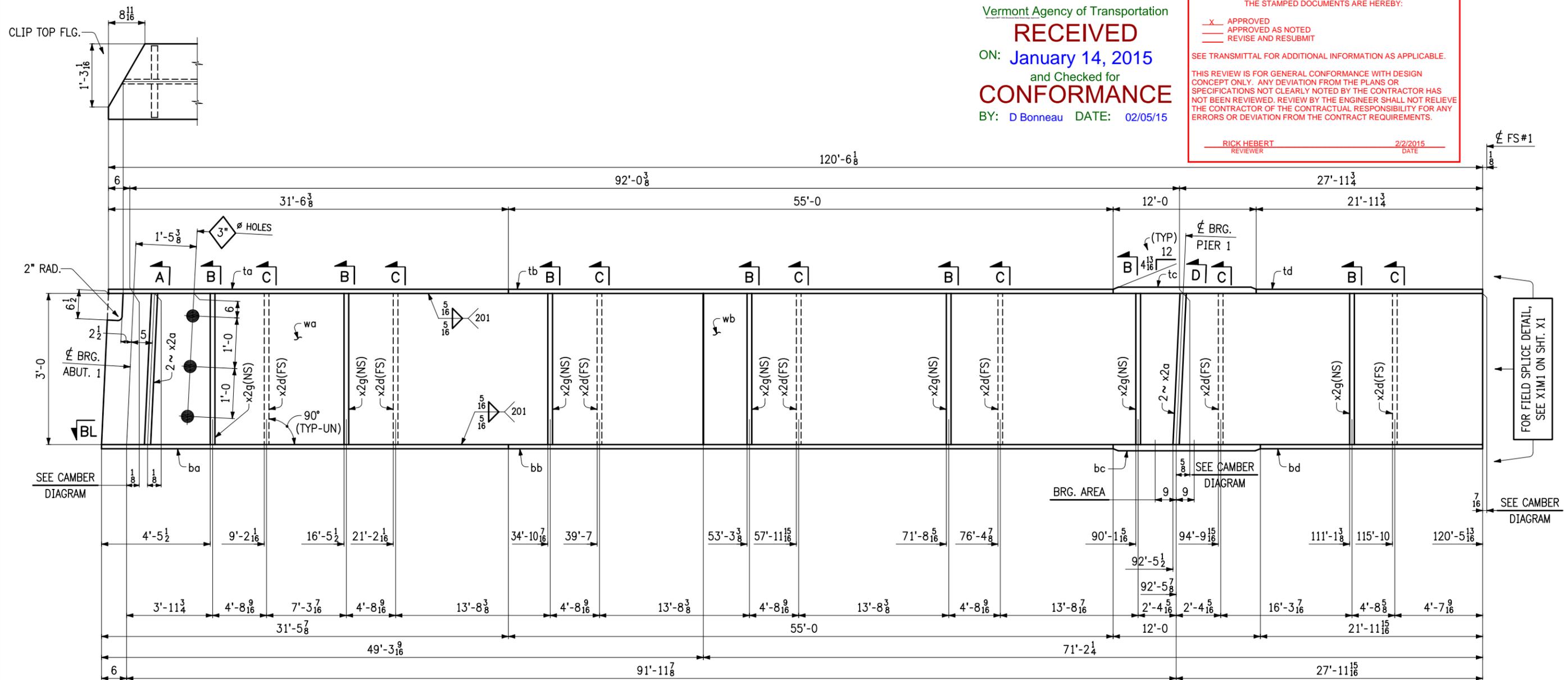
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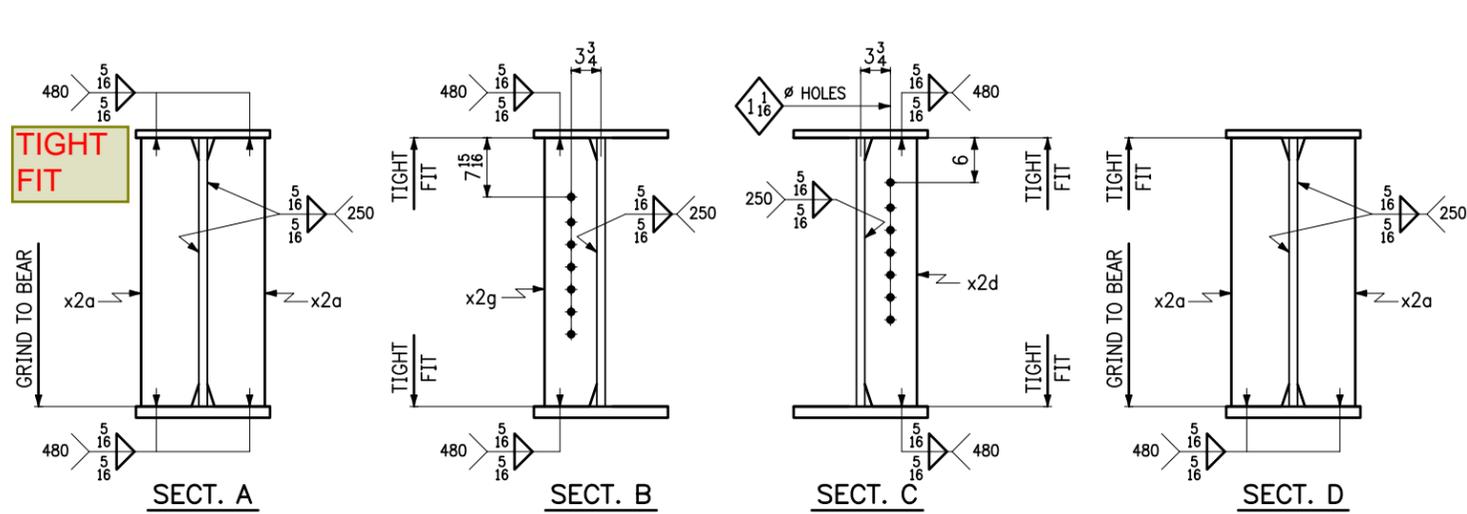
CONFORMANCE

BY: D Bonneau DATE: 02/05/15



FOR FIELD SPLICE DETAIL,  
SEE X1M1 ON SHT. X1

SEE CAMBER  
DIAGRAM



NO.	DATE	REMARKS	BY
REVISIONS			
		<b>CASCO BAY STEEL STRUCTURES</b> ONE WALLACE AVENUE PHONE: 207-780-6722 SOUTH PORTLAND, ME 04106 FAX: 207-780-6726	
STRUCTURE <u>BENMONT AVE. (TH-7) (URBAN MINOR ARTERIAL)</u>			
LOCATION <u>TOWN OF BENNINGTON, VERMONT</u>			
PROJECT NO. <u>BRIDGE NO. 57 PROJECT NO. BRP 1000(16)</u>			
ENGINEER <u>STATE OF VERMONT AGENCY OF TRANSPORTATION</u>			
CUSTOMER <u>ALPINE CONSTRUCTION</u>			
ITEM <u>GIRDER ~ 4G4A</u>			
SURFACE PREP. <u>SSPC-SP10</u> OPEN HOLES <u>15/16" (UN)</u>			
PAINT <u>NONE</u>			
APPROVAL	DRAWN <u>GDC</u> 12-9-14	SHEET NO. <u>4AB</u>	JOB NO. <u>605</u>
SHOP	CHECKED <u>FM</u> 1-5-14		



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RICK HEBERT REVIEWER 2/2/2015 DATE

Vermont Agency of Transportation

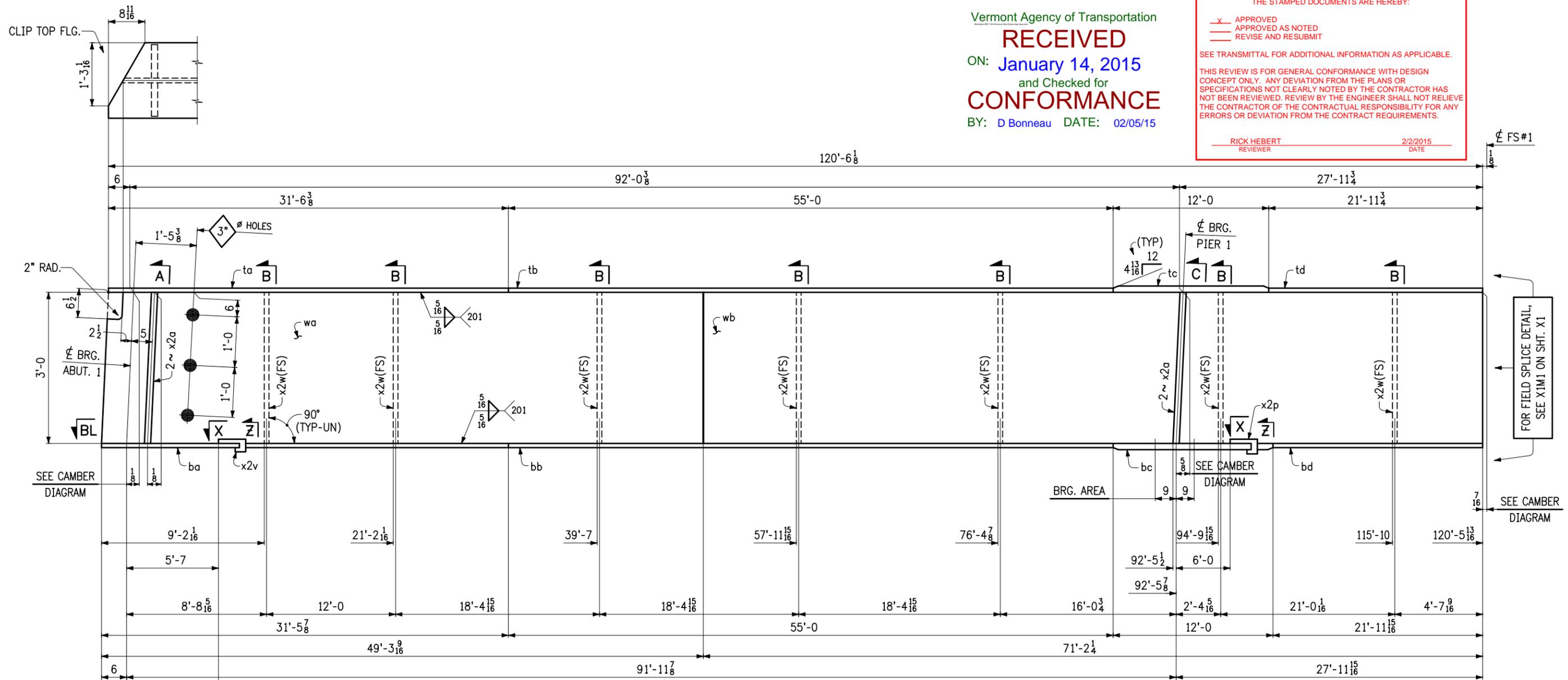
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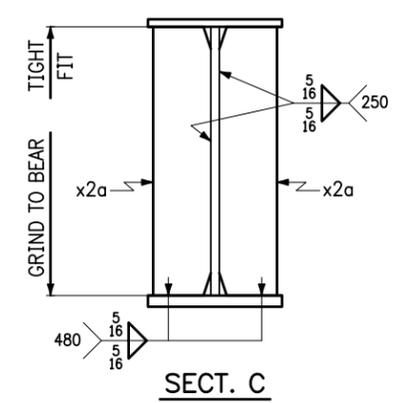
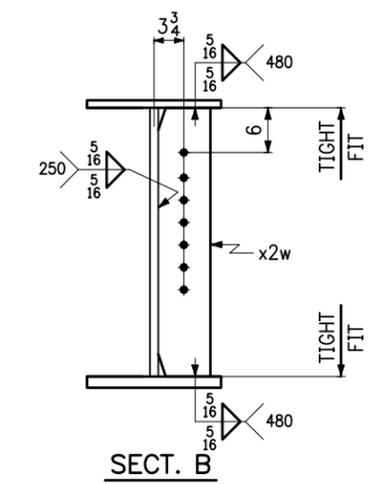
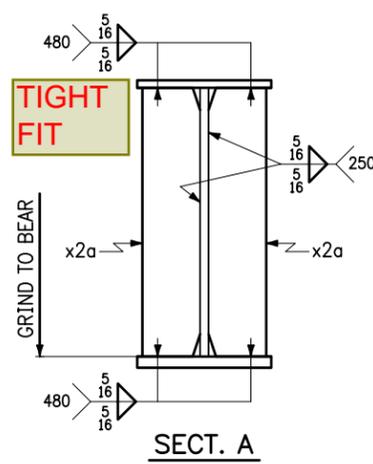
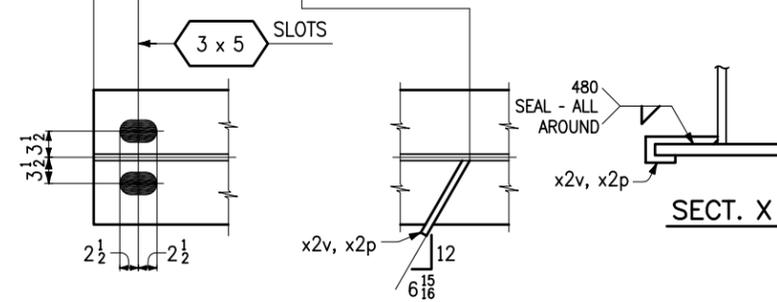
CONFORMANCE

BY: D Bonneau DATE: 02/05/15



FOR FIELD SPLICE DETAIL, SEE X1M1 ON SHT. X1

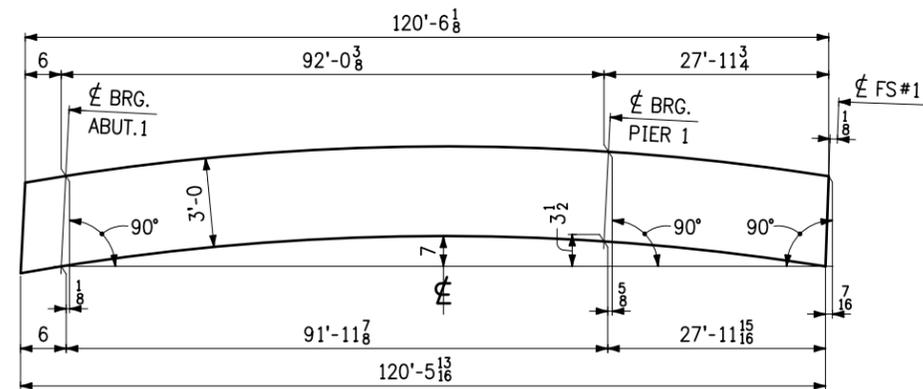
SEE CAMBER DIAGRAM



ONE ~ GIRDER ~ 5G5A

- FOR GIRDER STANDARD DETAILS, SEE SHT. X2.
- FOR WEB CUTTING DIAGRAM, SEE SHT. C2.
- FOR FLANGE CUTTING DIAGRAMS, SEE SHT. C2.
- FOR GENERAL NOTES, SEE SHT. GN1.
- "BRG. AREA" INDICATES AREA THAT MUST BE FLAT TO PROVIDE A UNIFORM EVEN CONTACT WITH SOLE PLATE.

NO.	DATE	REMARKS	BY
REVISIONS			
		<b>CASCO BAY STEEL STRUCTURES</b> ONE WALLACE AVENUE PHONE: 207-780-6722 SOUTH PORTLAND, ME 04106 FAX: 207-780-6726	
STRUCTURE		BENMONT AVE. (TH-7) (URBAN MINOR ARTERIAL)	
LOCATION		TOWN OF BENNINGTON, VERMONT	
PROJECT NO.		BRIDGE NO. 57 PROJECT NO. BRF 1000(16)	
ENGINEER		STATE OF VERMONT AGENCY OF TRANSPORTATION	
CUSTOMER		ALPINE CONSTRUCTION	
ITEM		GIRDER ~ 5G5A	
SURFACE PREP.		SSPC-SP10 OPEN HOLES 15/16 (UN)	
PAINT		NONE	
APPROVAL	DRAWN	12-9-14	SHEET NO.
SHOP	CHECKED	1-5-15	JOB NO.
			<b>5AB 605</b>



CAMBER DIAGRAM

LINE	NO. OF PCS.	SHIP MARK	ASSY MARK	MATERIAL					REMARKS	
				SHAPE	SECTION	LENGTH FT.	IN.	MATERIAL SPEC.		ITEM NO.
1	1	5G5A			GIRDER					23,051 lbs.
2	1		wa	PL	1/2 x 36	49	4 1/8	M270-50WT2	1/15	3022 lbs.
3	1		wb	PL	1/2 x 36	71	2 3/4	M270-50WT2	1/14	4363 lbs.
4	1		ta	PL	1 x 18	31	6 3/8	M270-50WT2	2/8	1931 lbs.
5	1		tb	PL	1 x 18	55	0	M270-50WT2	2/6	3369 lbs.
6	1		tc	PL	1 1/8 x 18	12	0	M270-50WT2	2/2	1011 lbs.
7	1		td	PL	1 x 18	21	11 3/4	M270-50WT2	2/9	1346 lbs.
8	1		ba	PL	1 x 18	31	5 1/8	M270-50WT2	2/7	1929 lbs.
9	1		bb	PL	1 x 18	55	0	M270-50WT2	2/6	3369 lbs.
10	1		bc	PL	1 1/4 x 18	12	0	M270-50WT2	2/4	919 lbs.
11	1		bd	PL	1 x 18	21	11 15/16	M270-50WT2	2/9	1347 lbs.
12										
13	4		x2a	PL	3/4 x 8 1/2	3	0	M270-50W	3/10	G1E 260 lbs.
14	7		x2w	PL	1/2 x 5	3	0	M270-50W	3/12	179 lbs.
15	1		x2p	PL	1/4 x 3 1/4	1	0 1/8	M270-50W	7/2	3 lbs.
16	1		x2v	PL	1/4 x 3	1	0 1/8	M270-50W	7/2	3 lbs.
17										
18										
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Vermont Agency of Transportation

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BY: D Bonneau DATE: 02/05/15

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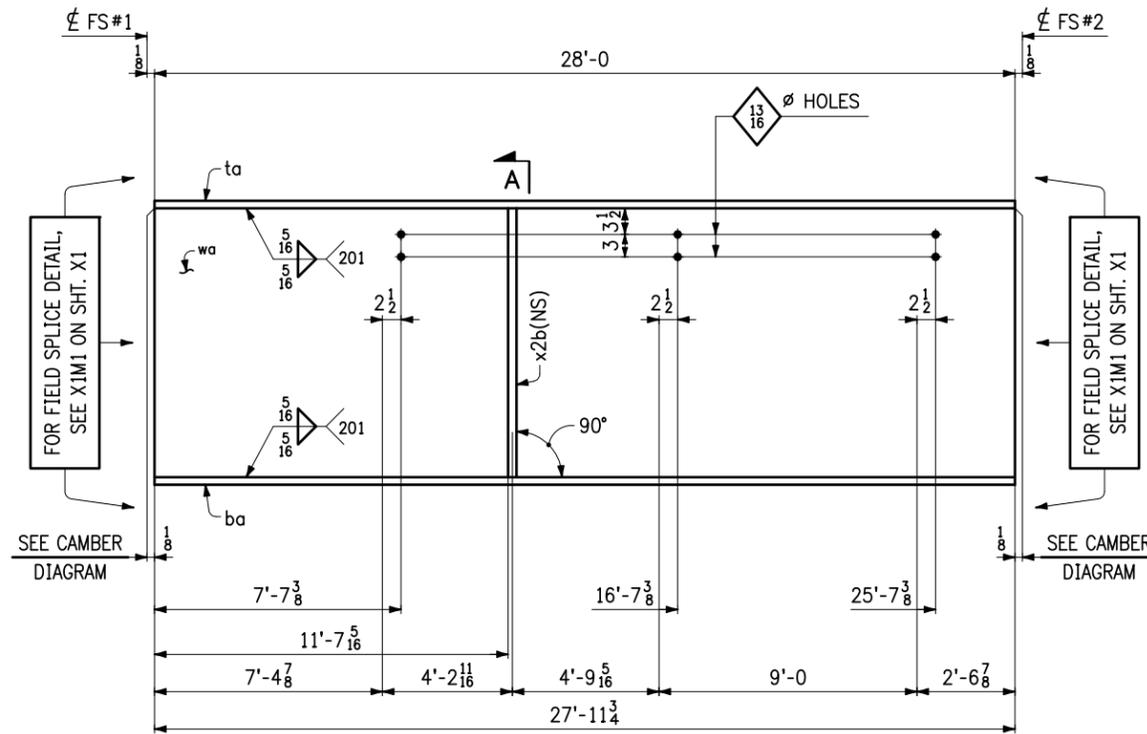
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RICK HEBERT  
REVIEWER

2/2/2015  
DATE

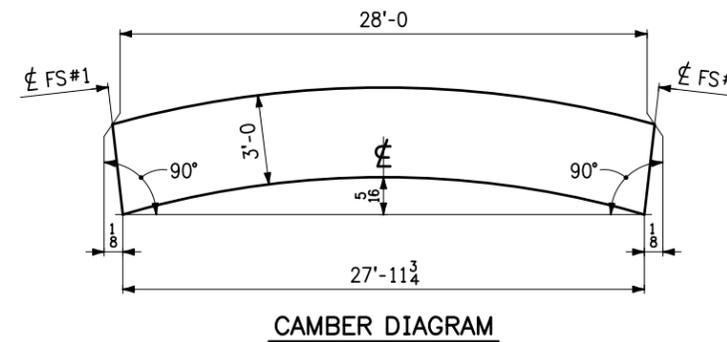
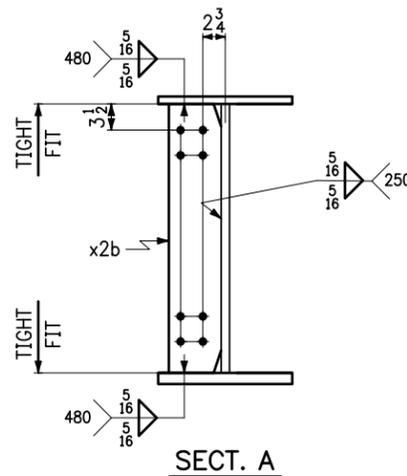
NO.	DATE	REMARKS	BY
REVISIONS			
		<b>CASCO BAY STEEL STRUCTURES</b> ONE WALLACE AVENUE PHONE: 207-780-6722 SOUTH PORTLAND, ME 04106 FAX: 207-780-6726	
STRUCTURE		BENMONT AVE. (TH-7) (URBAN MINOR ARTERIAL)	
LOCATION		TOWN OF BENNINGTON, VERMONT	
PROJECT NO.		BRIDGE NO. 57 PROJECT NO. BRF 1000(16)	
ENGINEER		STATE OF VERMONT AGENCY OF TRANSPORTATION	
CUSTOMER		ALPINE CONSTRUCTION	
ITEM		GIRDER ~ 5G5A	
SURFACE PREP.		SSPC-SP10 OPEN HOLES	
PAINT		NONE	
APPROVAL	DRAWN	GDC 12-9-14	SHEET NO.
SHOP	CHECKED	FM 1-5-15	5B
			JOB NO. 605

Spacing of waterline support beams are not all at 9'-0" spaces as shown on Contract Drawing Sheet 39 of 75. Maximum variation appears to be 9". The increase in span is acceptable, however the Contractor should refer to the Special Provision (Water Main on Bridge) to ensure compliance with the hanger distance to pipe joint requirements are also met.



**ONE ~ GIRDER ~ 6G1B**

- FOR GIRDER STANDARD DETAILS, SEE SHT. X2.
- FOR WEB CUTTING DIAGRAM, SEE SHT. C3.
- FOR FLANGE CUTTING DIAGRAMS, SEE SHT. C3.
- FOR GENERAL NOTES, SEE SHT. GN1.



**CAMBER DIAGRAM**

LINE	NO. OF PCS.	SHIP MARK	ASSY MARK	MATERIAL							
				SHAPE	SECTION	LENGTH FT.	IN.	MATERIAL SPEC.	ITEM NO.	REMARKS	
1	1	6G1B			GIRDER						5180 lbs.
2	1		wa	PL	1/2 x 36	28	0	M270-50WT2	1/19		1715 lbs.
3	1		ta	PL	1 x 18	28	0	M270-50WT2	2/11		1715 lbs.
4	1		ba	PL	1 x 18	27	11 3/4	M270-50WT2	2/11		1714 lbs.
5											
6	1		x2b	PL	1/2 x 7	3	0	M270-50W	3/11		36 lbs.
7											
8											
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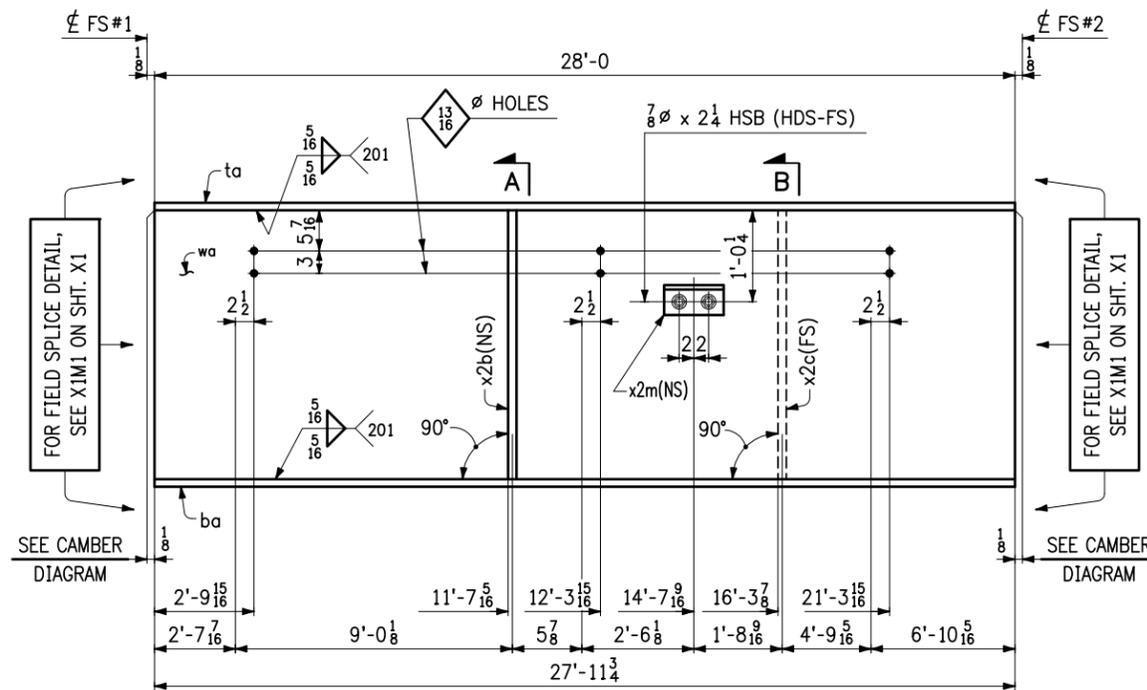
**RICK HEBERT**  
REVIEWER

**2/2/2015**  
DATE

NO.	DATE	REMARKS	BY
REVISIONS			
		<b>CASCO BAY STEEL STRUCTURES</b> <small>ONE WALLACE AVENUE SOUTH PORTLAND, ME 04106 PHONE: 207-780-6722 FAX: 207-780-6726</small>	
STRUCTURE		BENMONT AVE. (TH-7) (URBAN MINOR ARTERIAL)	
LOCATION		TOWN OF BENNINGTON, VERMONT	
PROJECT NO.		BRIDGE NO. 57 PROJECT NO. BRP 1000(16)	
ENGINEER		STATE OF VERMONT AGENCY OF TRANSPORTATION	
CUSTOMER		ALPINE CONSTRUCTION	
ITEM		GIRDER ~ 6G1B	
SURFACE PREP.		SSPC-SP10	OPEN HOLES 15/16" (UN)
PAINT		NONE	
APPROVAL	DRAWN	GDC 12-10-14	SHEET NO. 6
SHOP	CHECKED	FM 1-5-15	JOB NO. 605

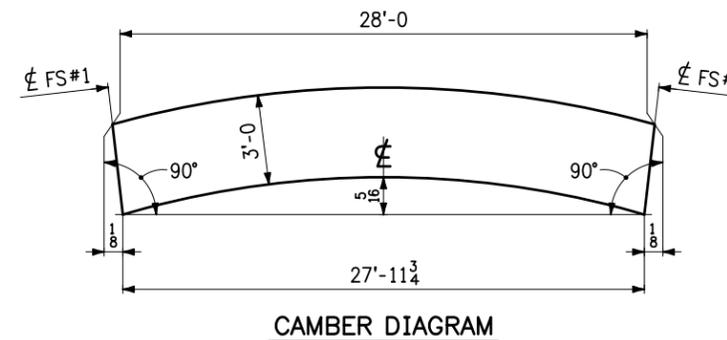
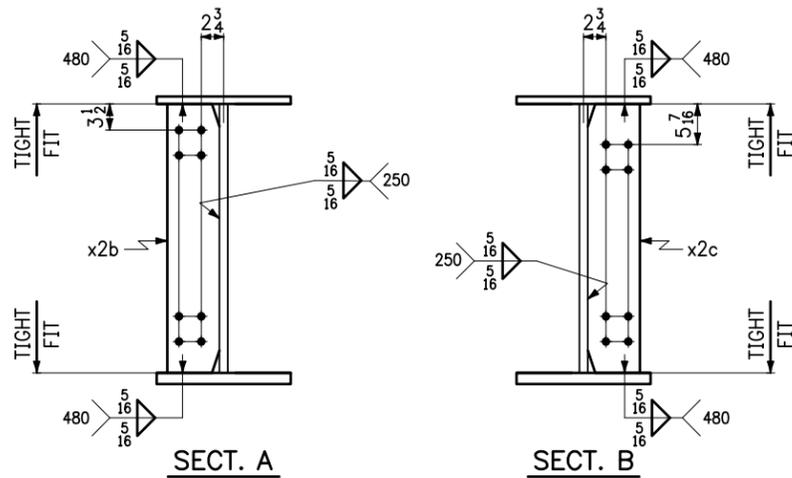
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**ONE ~ GIRDER ~ 7G2B**

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- FOR WEB CUTTING DIAGRAM, SEE SHT. C3.
- FOR FLANGE CUTTING DIAGRAMS, SEE SHT. C3.
- FOR GENERAL NOTES, SEE SHT. GN1.



LINE	NO. OF PCS.	SHIP MARK	ASSY MARK	MATERIAL					REMARKS	
				SHAPE	SECTION	LENGTH FT.	IN.	MATERIAL SPEC.		ITEM NO.
1	1	7G2B			GIRDER				5223 lbs.	
2	1		wa	PL	1/2 x 36	28	0	M270-50WT2	1 19	1715 lbs.
3	1		ta	PL	1 x 18	28	0	M270-50WT2	2 11	1715 lbs.
4	1		ba	PL	1 x 18	27	11 3/4	M270-50WT2	2 11	1714 lbs.
5										
6	1		x2b	PL	1/2 x 7	3	0	M270-50W	3 11	36 lbs.
7	1		x2c	PL	1/2 x 7	3	0	M270-50W	3 11	36 lbs.
8	1		x2m	L	4 x 4 x 3/8	0	8	M270-50W	3 13	7 lbs.
9										
10	2				7/8 HSB	0	2 1/4	M164 TYPE 3	6 2	
11	2				7/8 WASHER			M293-3	6 6	
12										
13										
14										
15										
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**T.Y. LIN INTERNATIONAL**

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RICK HEBERT  
REVIEWER

2/2/2015  
DATE

NO.	DATE	REMARKS	BY
REVISIONS			
		<b>CASCO BAY STEEL STRUCTURES</b> <small>ONE WALLACE AVENUE SOUTH PORTLAND, ME 04106 PHONE: 207-780-6722 FAX: 207-780-6726</small>	
STRUCTURE		BENMONT AVE. (TH-7) (URBAN MINOR ARTERIAL)	
LOCATION		TOWN OF BENNINGTON, VERMONT	
PROJECT NO.		BRIDGE NO. 57 PROJECT NO. BRF 1000(16)	
ENGINEER		STATE OF VERMONT AGENCY OF TRANSPORTATION	
CUSTOMER		ALPINE CONSTRUCTION	
ITEM		GIRDER ~ 7G2B	
SURFACE PREP.		SSPC-SP10 OPEN HOLES 15/16 (UN)	
PAINT		NONE	
APPROVAL	DRAWN	GDC 12-10-14	SHEET NO. 7
SHOP	CHECKED	FM 1-5-15	JOB NO. 605

Vermont Agency of Transportation  
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 ON: **January 14, 2015**  
 and Checked for  
**CONFORMANCE**  
 BY: **D Bonneau** DATE: **02/05/15**

# T.Y. LIN INTERNATIONAL

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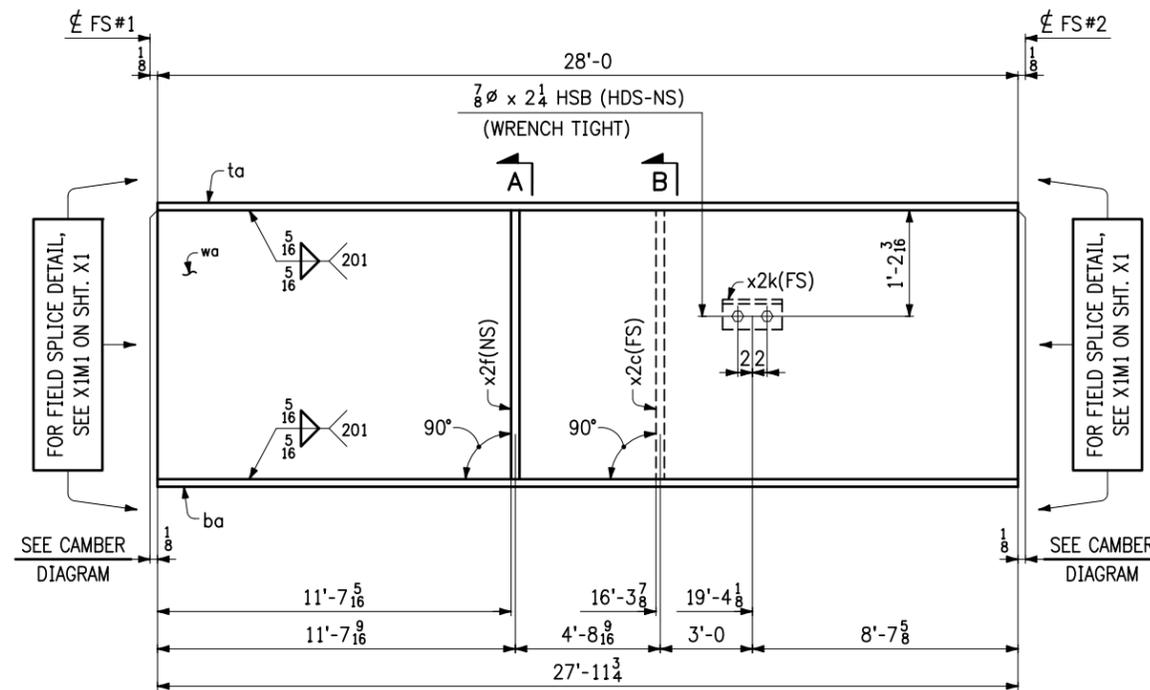
- X APPROVED
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RICK HEBERT  
REVIEWER

2/2/2015  
DATE



FOR FIELD SPLICE DETAIL, SEE X1M1 ON SHT. X1

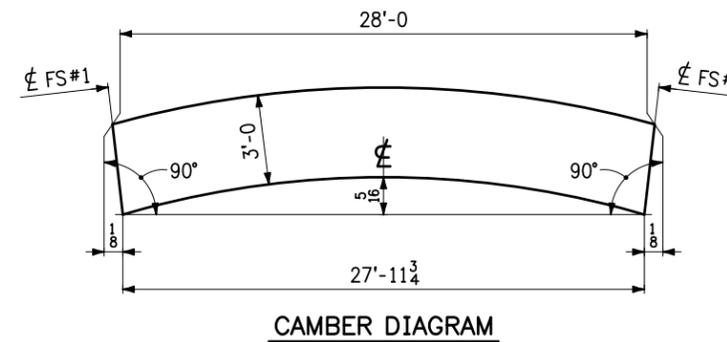
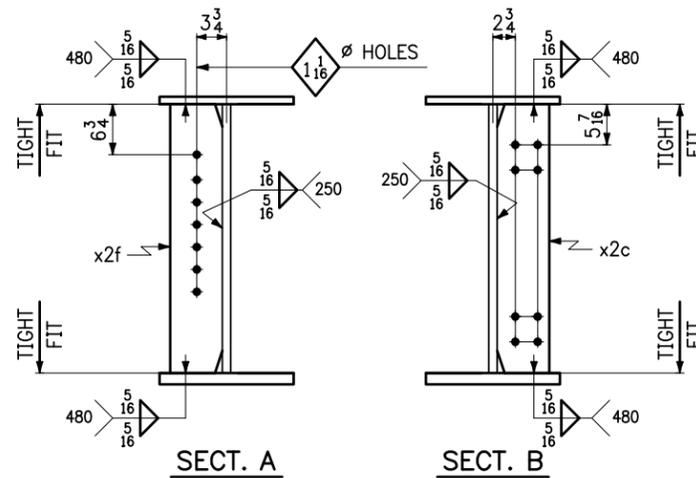
FOR FIELD SPLICE DETAIL, SEE X1M1 ON SHT. X1

SEE CAMBER DIAGRAM

SEE CAMBER DIAGRAM

### ONE ~ GIRDER ~ 8G3B

- FOR GIRDER STANDARD DETAILS, SEE SHT. X2.
- FOR WEB CUTTING DIAGRAM, SEE SHT. C3.
- FOR FLANGE CUTTING DIAGRAMS, SEE SHT. C3.
- FOR GENERAL NOTES, SEE SHT. GN1.



LINE	NO. OF PCS.	SHIP MARK	ASS'Y MARK	MATERIAL							
				SHAPE	SECTION	LENGTH FT.	IN.	MATERIAL SPEC.	ITEM NO.	REMARKS	
1	1	8G3B			GIRDER						5213 lbs.
2	1		wa	PL	1/2 x 36	28	0	M270-50WT2	1	19	1715 lbs.
3	1		ta	PL	1 x 18	28	0	M270-50WT2	2	11	1715 lbs.
4	1		ba	PL	1 x 18	27	11 1/4	M270-50WT2	2	11	1714 lbs.
5											
6	1		x2c	PL	1/2 x 7	3	0	M270-50W	3	11	36 lbs.
7	1		x2f	PL	1/2 x 5	3	0	M270-50W	3	12	26 lbs.
8	1		x2k	L	4 x 4 x 3/8	0	8	M270-50W	3	13	7 lbs.
9											
10	2				7/8 HSB	0	2 1/4	M164 TYPE 3	6	2	
11	2				7/8 WASHER			M293-3	6	6	
12											
13											
14											
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Vermont Agency of Transportation

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BY: D Bonneau DATE: 02/05/15

NO.	DATE	REMARKS	BY
REVISIONS			
		<b>CASCO BAY STEEL STRUCTURES</b> <small>ONE WALLACE AVENUE      PHONE: 207-780-6722</small> <small>SOUTH PORTLAND, ME 04106      FAX: 207-780-6726</small>	
STRUCTURE		BENMONT AVE. (TH-7) (URBAN MINOR ARTERIAL)	
LOCATION		TOWN OF BENNINGTON, VERMONT	
PROJECT NO.		BRIDGE NO. 57      PROJECT NO. BRF 1000(16)	
ENGINEER		STATE OF VERMONT AGENCY OF TRANSPORTATION	
CUSTOMER		ALPINE CONSTRUCTION	
ITEM		GIRDER ~ 8G3B	
SURFACE PREP.		SSPC-SP10	OPEN HOLES 15/16 (UN)
PAINT		NONE	
APPROVAL	DRAWN	GDC 12-10-14	SHEET NO. 8
SHOP	CHECKED	FM 1-5-15	JOB NO. 605



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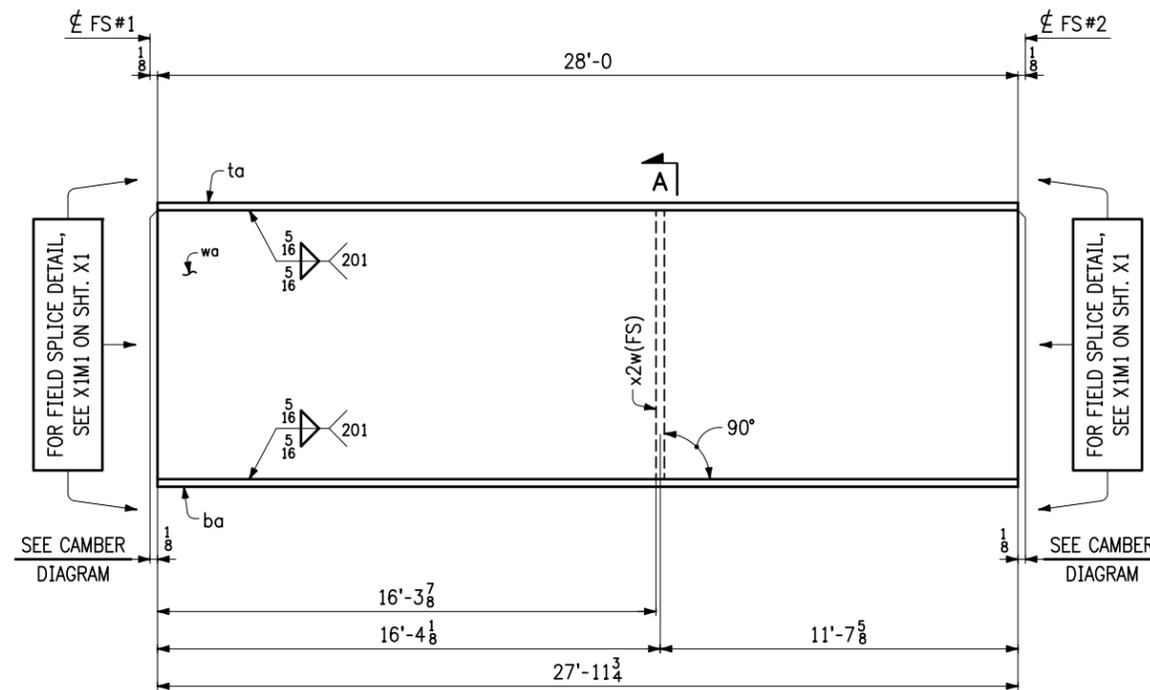
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- REVISE AND RESUBMIT

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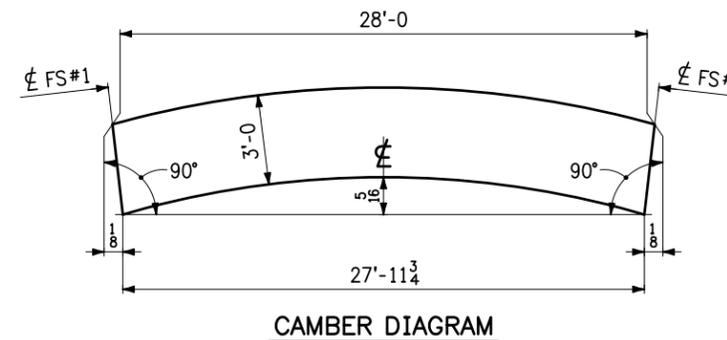
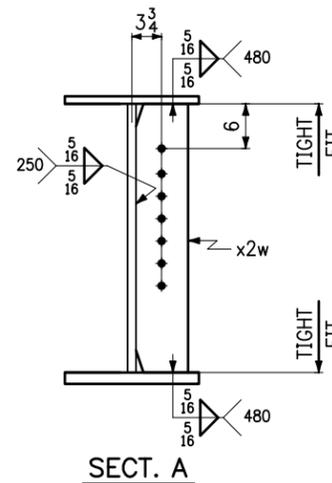
RICK HEBERT  
REVIEWER

2/2/2015  
DATE



**ONE ~ GIRDER ~ 10G5B**

- FOR GIRDER STANDARD DETAILS, SEE SHT. X2.
- FOR WEB CUTTING DIAGRAM, SEE SHT. C3.
- FOR FLANGE CUTTING DIAGRAMS, SEE SHT. C3.
- FOR GENERAL NOTES, SEE SHT. GN1.



LINE	NO. OF PCS.	SHIP MARK	ASSY MARK	MATERIAL					REMARKS	
				SHAPE	SECTION	LENGTH FT.	IN.	MATERIAL SPEC.		ITEM NO.
1	1	10G5B			GIRDER					5170 lbs.
2	1		wa	PL	1/2 x 36	28	0	M270-50WT2	19	1715 lbs.
3	1		ta	PL	1 x 18	28	0	M270-50WT2	11	1715 lbs.
4	1		ba	PL	1 x 18	27	11 3/4	M270-50WT2	11	1714 lbs.
5										
6	1		x2w	PL	1/2 x 5	3	0	M270-50W	12	26 lbs.
7										
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		<b>CASCO BAY STEEL STRUCTURES</b> ONE WALLACE AVENUE PHONE: 207-780-6722 SOUTH PORTLAND, ME 04106 FAX: 207-780-6726	
STRUCTURE		BENMONT AVE. (TH-7) (URBAN MINOR ARTERIAL)	
LOCATION		TOWN OF BENNINGTON, VERMONT	
PROJECT NO.		BRIDGE NO. 57 PROJECT NO. BRF 1000(16)	
ENGINEER		STATE OF VERMONT AGENCY OF TRANSPORTATION	
CUSTOMER		ALPINE CONSTRUCTION	
ITEM		GIRDER ~ 10G5B	
SURFACE PREP.		SSPC-SP10 OPEN HOLES 15/16"	
PAINT		NONE	
APPROVAL	DRAWN	GDC 12-10-14	SHEET NO. 10
SHOP	CHECKED	FM 1-5-15	JOB NO. 605

Spacing of waterline support beams are not all at 9'-0" spaces as shown on Contract Drawing Sheet 39 of 75. Maximum variation appears to be 9". The increase in span is acceptable, however the Contractor should refer to the Special Provision (Water Main on Bridge) to ensure compliance with the hanger distance to pipe joint requirements are also met.

**T.Y. LIN INTERNATIONAL**

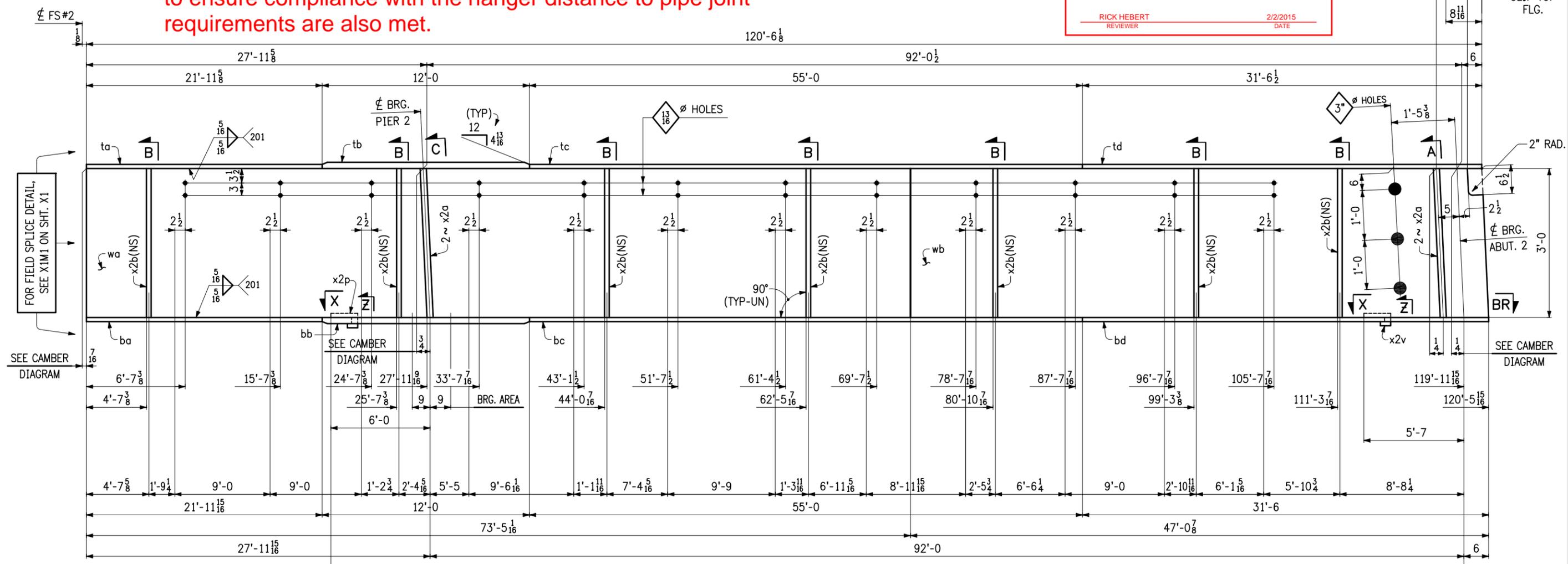
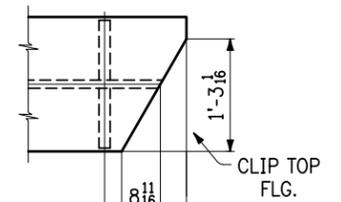
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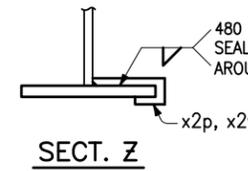
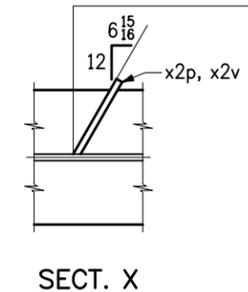
RICK HEBERT REVIEWER 2/2/2015 DATE



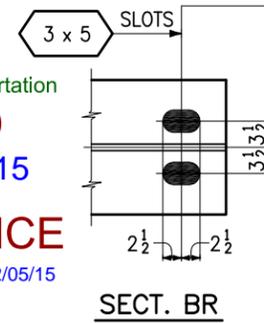
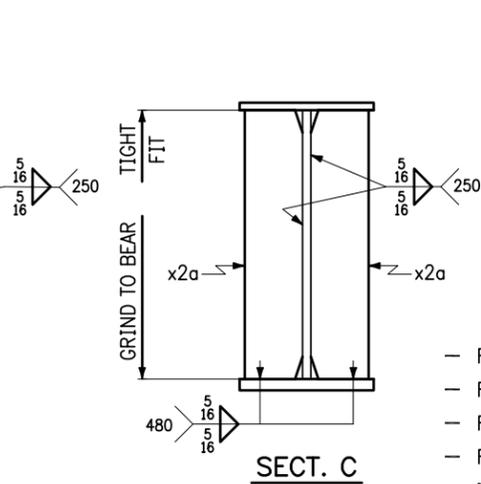
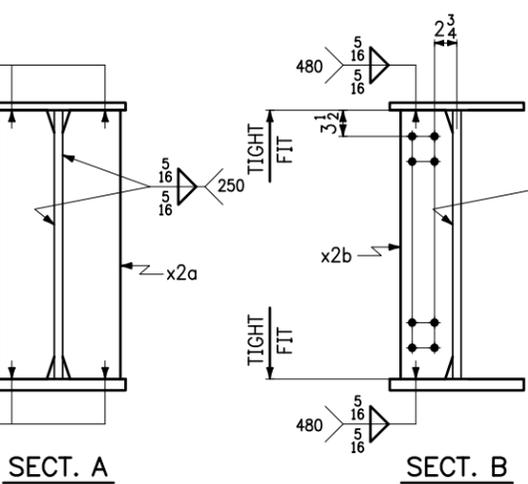
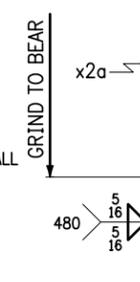
FOR FIELD SPLICE DETAIL, SEE X.1M1 ON SHT. X1

SEE CAMBER DIAGRAM

SEE CAMBER DIAGRAM



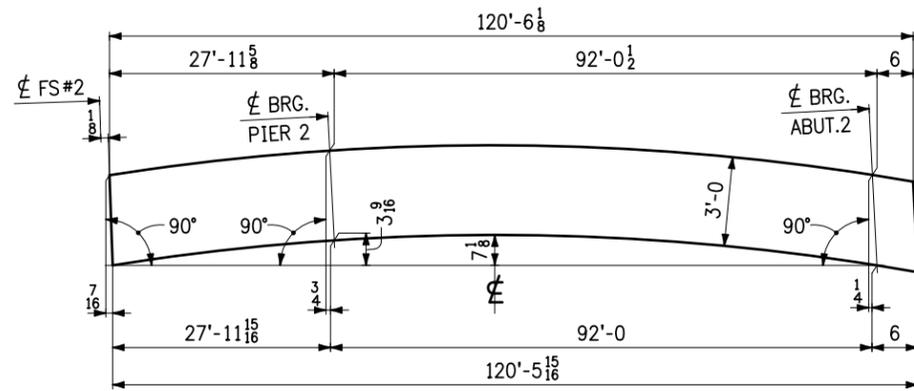
**TIGHT FIT**



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- ONE ~ GIRDER ~ 11G1C**
- FOR GIRDER STANDARD DETAILS, SEE SHT. X2.
  - FOR WEB CUTTING DIAGRAM, SEE SHT. C4.
  - FOR FLANGE CUTTING DIAGRAMS, SEE SHT. C4.
  - FOR GENERAL NOTES, SEE SHT. GN1.
  - "BRG. AREA" INDICATES AREA THAT MUST BE FLAT TO PROVIDE A UNIFORM EVEN CONTACT WITH SOLE PLATE.

NO.	DATE	REMARKS	BY
REVISIONS			
<b>CASCO BAY STEEL STRUCTURES</b>		<b>CASCO BAY STEEL STRUCTURES</b>	
ONE WALLACE AVENUE SOUTH PORTLAND, ME 04106		PHONE: 207-780-6722 FAX: 207-780-6726	
STRUCTURE	BENMONT AVE. (TH-7) (URBAN MINOR ARTERIAL)		
LOCATION	TOWN OF BENNINGTON, VERMONT		
PROJECT NO.	BRIDGE NO. 57 PROJECT NO. BRF 1000(16)		
ENGINEER	STATE OF VERMONT AGENCY OF TRANSPORTATION		
CUSTOMER	ALPINE CONSTRUCTION		
ITEM	GIRDER ~ 11G1C		
SURFACE PREP.	SSPC-SP10	OPEN HOLES	15/16" (UN)
PAINT	NONE		
APPROVAL	DRAWN <b>GDC</b> 12-9-14	SHEET NO. <b>11AB</b>	JOB NO. <b>605</b>
SHOP	CHECKED <b>FM</b> 1-5-15		



**CAMBER DIAGRAM**

LINE	NO. OF PCS.	SHIP MARK	ASS'Y MARK	MATERIAL						REMARKS
				SHAPE	SECTION	LENGTH FT.	IN.	MATERIAL SPEC.	ITEM NO.	
1	1	11G1C			GIRDER					23,124 lbs.
2	1		wa	PL	1/2 x 36	73	5 5/8	M270-50WT2	1 23	4500 lbs.
3	1		wb	PL	1/2 x 36	47	1 3/8	M270-50WT2	1 26	2886 lbs.
4	1		ta	PL	1 x 18	21	11 3/8	M270-50WT2	2 20	1346 lbs.
5	1		tb	PL	1 1/2 x 18	12	0	M270-50WT2	2 13	1011 lbs.
6	1		tc	PL	1 x 18	55	0	M270-50WT2	2 17	3369 lbs.
7	1		td	PL	1 x 18	31	6 1/2	M270-50WT2	2 19	1932 lbs.
8	1		ba	PL	1 x 18	21	11 3/8	M270-50WT2	2 20	1347 lbs.
9	1		bb	PL	1 1/4 x 18	12	0	M270-50WT2	2 15	919 lbs.
10	1		bc	PL	1 x 18	55	0	M270-50WT2	2 17	3369 lbs.
11	1		bd	PL	1 x 18	31	6	M270-50WT2	2 18	1929 lbs.
12										
13	4		x2a	PL	3/4 x 8 1/2	3	0	M270-50W	3 10	G1E 260 lbs.
14	7		x2b	PL	1/2 x 7	3	0	M270-50W	3 11	250 lbs.
15	1		x2p	PL	1/4 x 3 1/4	1	0 1/8	M270-50W	7 2	3 lbs.
16	1		x2v	PL	1/4 x 3	1	0 1/8	M270-50W	7 2	3 lbs.
17										
18										
19										
20										
21										
22										
23										
24										
25										

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RICK HEBERT  
REVIEWER

2/2/2015  
DATE

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REVISIONS			
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LOCATION		TOWN OF BENNINGTON, VERMONT	
PROJECT NO.		BRIDGE NO. 57    PROJECT NO. BRF 1000(16)	
ENGINEER		STATE OF VERMONT AGENCY OF TRANSPORTATION	
CUSTOMER		ALPINE CONSTRUCTION	
ITEM		GIRDER ~ 11G1C	
SURFACE PREP.		SSPC-SP10    OPEN HOLES	
PAINT		NONE	
APPROVAL	DRAWN	12-8-14	SHEET NO.
SHOP	CHECKED	1-5-15	11B
			JOB NO.
			605

Spacing of waterline support beams are not all at 9'-0" spaces as shown on Contract Drawing Sheet 39 of 75. Maximum variation appears to be 9". The increase in span is acceptable, however the Contractor should refer to the Special Provision (Water Main on Bridge) to ensure compliance with the hanger distance to pipe joint requirements are also met.

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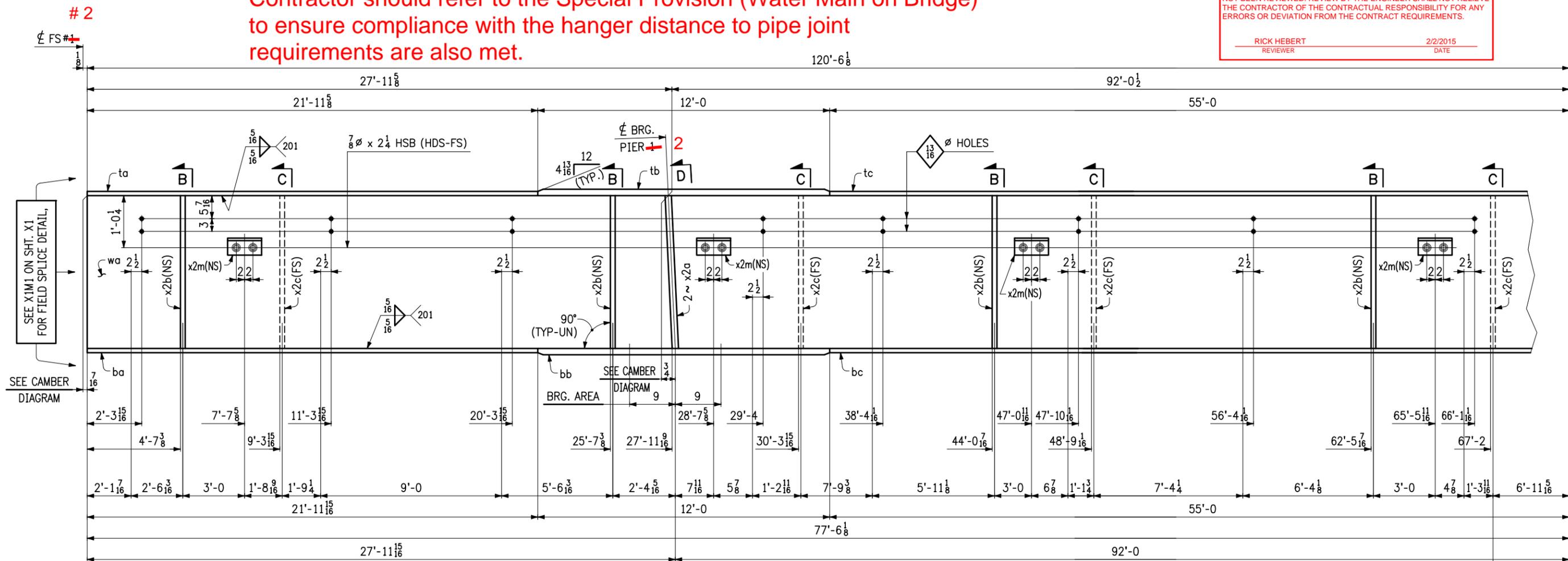
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RICK HEBERT  
 REVIEWER

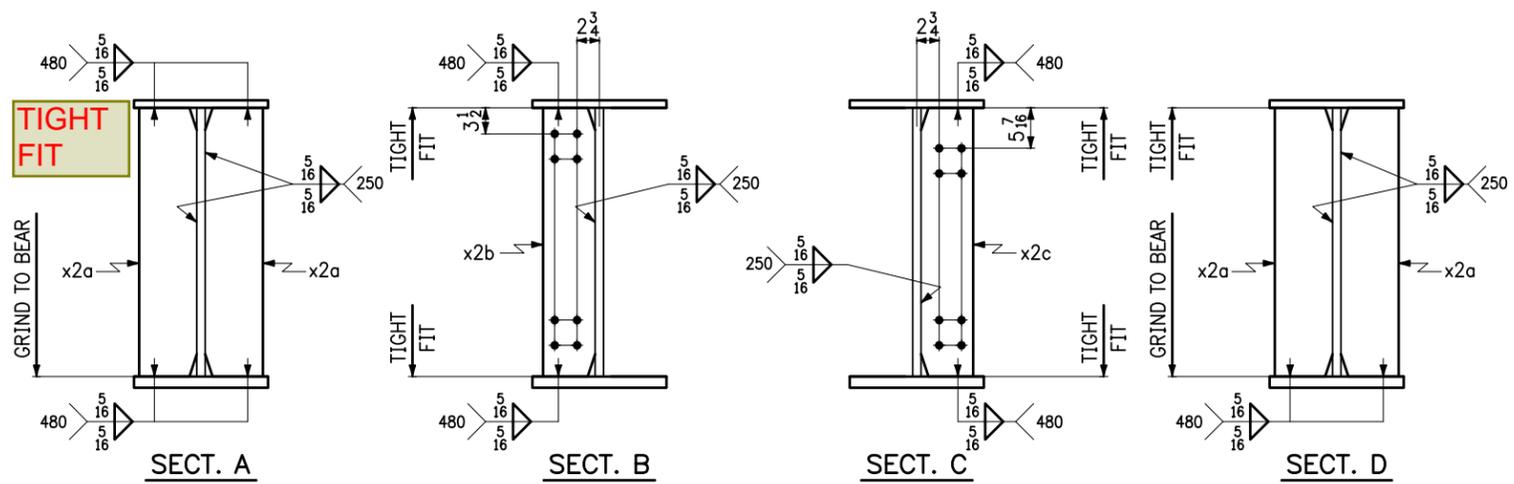
2/2/2015  
 DATE



SEE X1M1 ON SHT. X1 FOR FIELD SPLICE DETAIL,

SEE CAMBER DIAGRAM

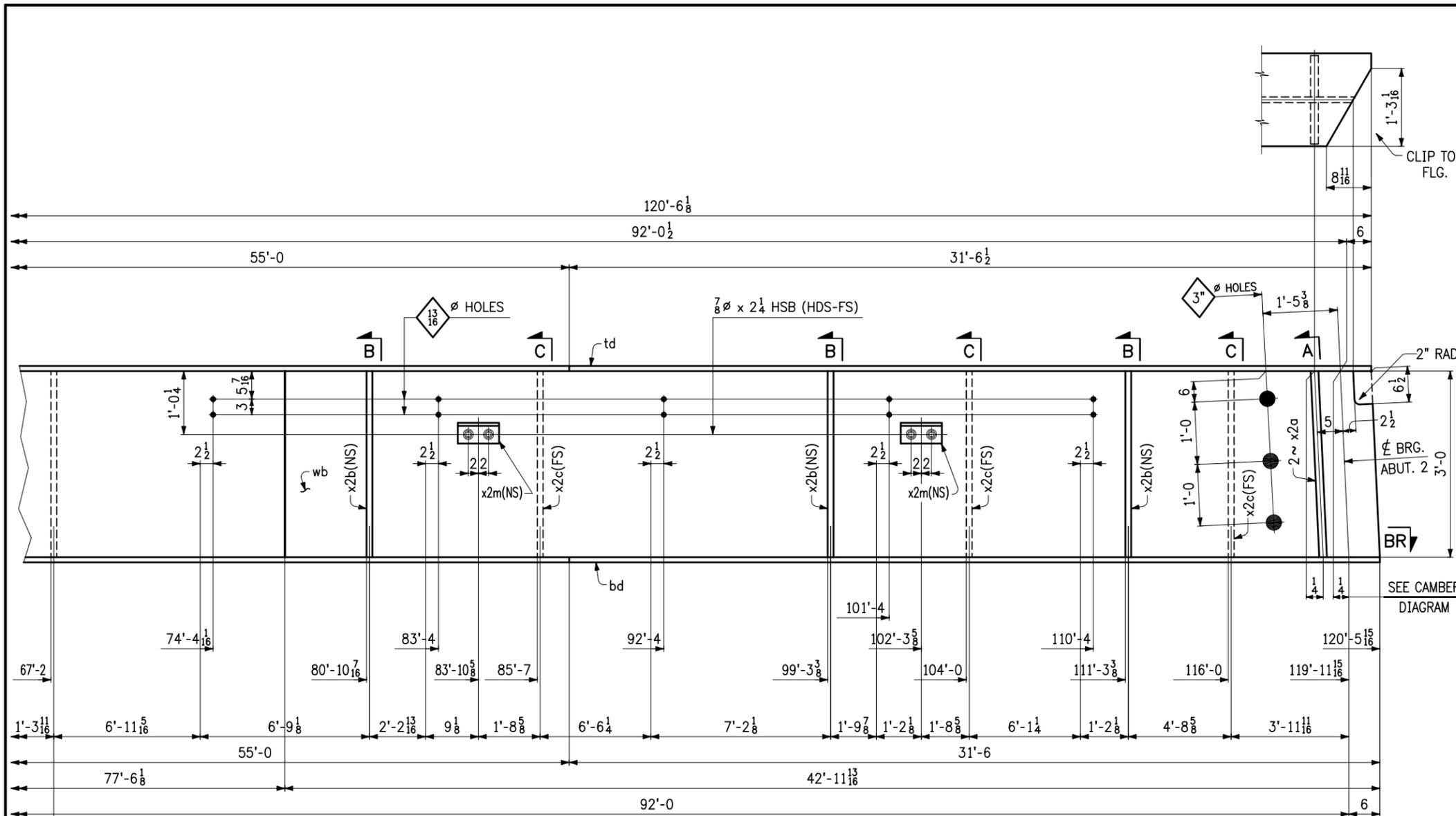
MATCHLINE  
 CONT'D ON SHT. 12B



- ONE ~ GIRDER ~ 12G2C**
- FOR GIRDER STANDARD DETAILS, SEE SHT. X2.
  - FOR WEB CUTTING DIAGRAM, SEE SHT. C4.
  - FOR FLANGE CUTTING DIAGRAMS, SEE SHT. C4.
  - FOR GENERAL NOTES, SEE SHT. GN1.
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STRUCTURE <u>BENMONT AVE. (TH-7) (URBAN MINOR ARTERIAL)</u>			
LOCATION <u>TOWN OF BENNINGTON, VERMONT</u>			
PROJECT NO. <u>BRIDGE NO. 57 PROJECT NO. BRP 1000(16)</u>			
ENGINEER <u>STATE OF VERMONT AGENCY OF TRANSPORTATION</u>			
CUSTOMER <u>ALPINE CONSTRUCTION</u>			
ITEM <u>GIRDER ~ 12G2C</u>			
SURFACE PREP. <u>SSPC-SP10</u> OPEN HOLES <u>15/16 (UN)</u>			
PAINT <u>NONE</u>			
APPROVAL	DRAWN <u>GDC</u> 12-8-14	SHEET NO. <u>12AB</u>	JOB NO. <u>605</u>
SHOP	CHECKED <u>FM</u> 1-6-15		



LINE	NO. OF PCS.	SHIP MARK	ASSY MARK	MATERIAL						
				SHAPE	SECTION	LENGTH FT.	IN.	MATERIAL SPEC.	ITEM NO.	REMARKS
1	1	12G2C			GIRDER					23,406 lbs.
2	1		wa	PL	1/2 x 36	77	6 1/8	M270-50WT2	1 21	4750 lbs.
3	1		wb	PL	1/2 x 36	43	0 1/4	M270-50WT2	1 28	2635 lbs.
4	1		ta	PL	1 x 18	21	11 3/8	M270-50WT2	2 20	1346 lbs.
5	1		tb	PL	1 1/8 x 18	12	0	M270-50WT2	2 13	1011 lbs.
6	1		tc	PL	1 x 18	55	0	M270-50WT2	2 17	3369 lbs.
7	1		td	PL	1 x 18	31	6 1/2	M270-50WT2	2 19	1932 lbs.
8	1		ba	PL	1 x 18	21	11 3/8	M270-50WT2	2 20	1347 lbs.
9	1		bb	PL	1 1/4 x 18	12	0	M270-50WT2	2 15	919 lbs.
10	1		bc	PL	1 x 18	55	0	M270-50WT2	2 17	3369 lbs.
11	1		bd	PL	1 x 18	31	6	M270-50WT2	2 18	1929 lbs.
12										
13	4		x2a	PL	3/4 x 8 1/2	3	0	M270-50W	3 10	GIE 260 lbs.
14	7		x2b	PL	1/2 x 7	3	0	M270-50W	3 11	250 lbs.
15	7		x2c	PL	1/2 x 7	3	0	M270-50W	3 11	250 lbs.
16	6		x2m	L	4 x 4 x 3/8	0	8	M270-50W	3 13	39 lbs.
17										
18	12				7/8 HSB	0	2 1/4	M164 TYPE 3	6 2	
19	12				7/8 WASHER			M293-3	6 6	
20										
21										
22										
23										
24										
25										

**T.Y. LIN INTERNATIONAL**

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— — — REVISE AND RESUBMIT

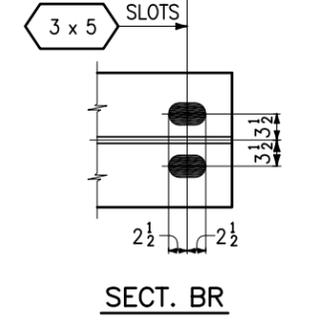
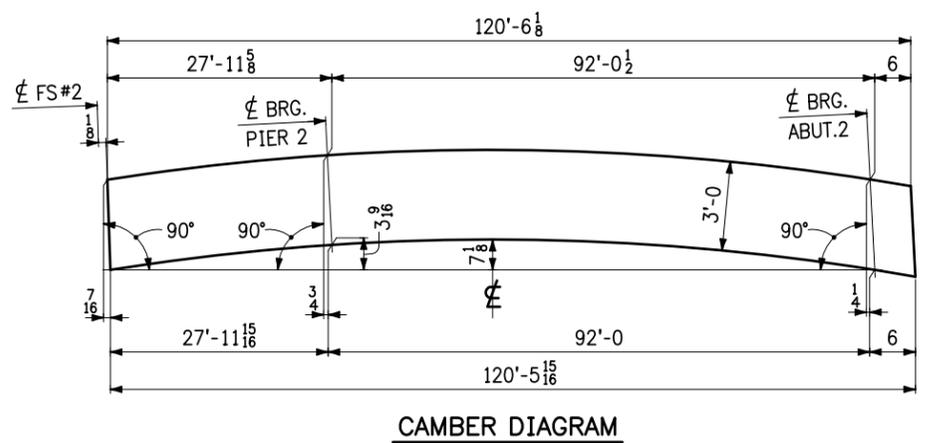
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RICK HEBERT  
 REVIEWER

2/2/2015  
 DATE

NO.	DATE	REMARKS	BY
REVISIONS			
		<b>CASCO BAY STEEL STRUCTURES</b> <small>ONE WALLACE AVENUE SOUTH PORTLAND, ME 04106 PHONE: 207-780-6722 FAX: 207-780-6726</small>	
STRUCTURE		BENMONT AVE. (TH-7) (URBAN MINOR ARTERIAL)	
LOCATION		TOWN OF BENNINGTON, VERMONT	
PROJECT NO.		BRIDGE NO. 57 PROJECT NO. BRF 1000(16)	
ENGINEER		STATE OF VERMONT AGENCY OF TRANSPORTATION	
CUSTOMER		ALPINE CONSTRUCTION	
ITEM		GIRDER ~ 12G2C	
SURFACE PREP.		SSPC-SP10 OPEN HOLES 15/16 (UN)	
PAINT		NONE	
APPROVAL	DRAWN	GDC 12-8-14	SHEET NO. 12B
SHOP	CHECKED	FM 1-6-15	JOB NO. 605



Vermont Agency of Transportation  
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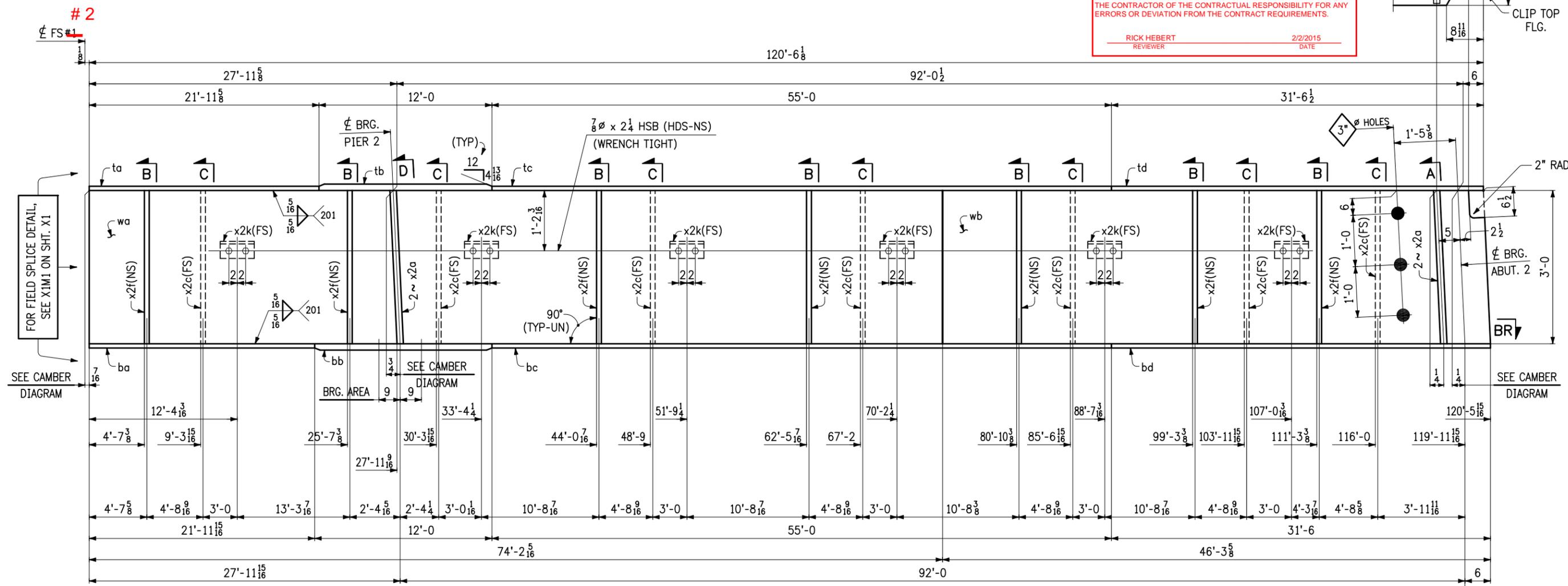
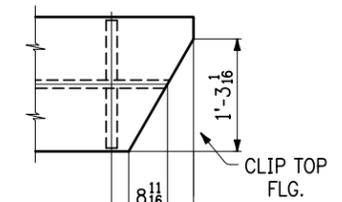
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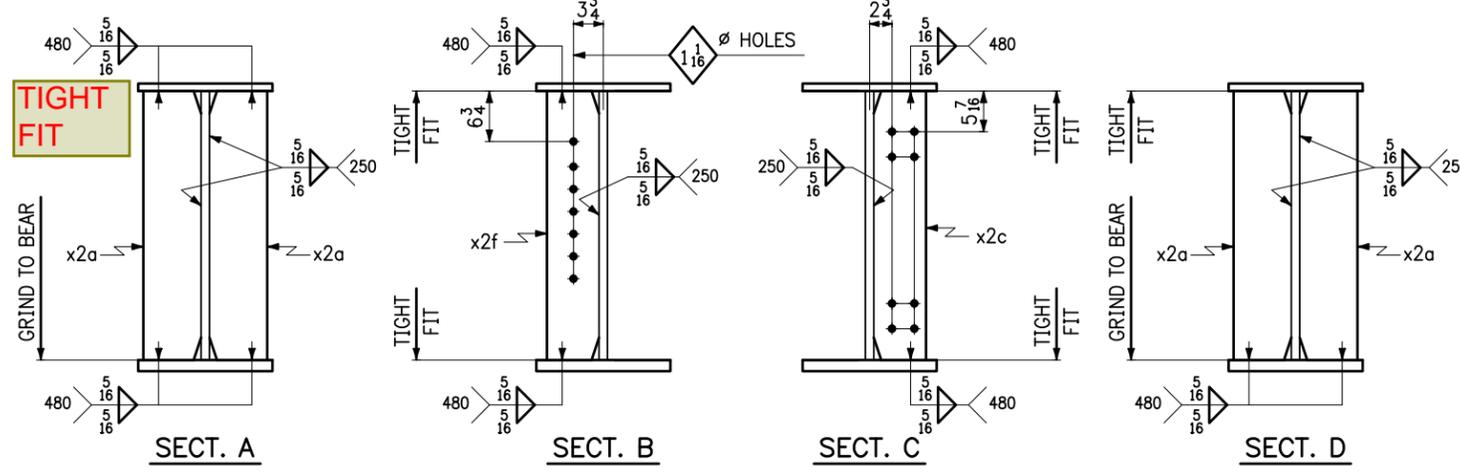
2/2/2015  
DATE



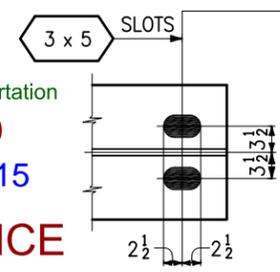
FOR FIELD SPlice DETAIL, SEE X1M1 ON SHT. X1

SEE CAMBER DIAGRAM

SEE CAMBER DIAGRAM



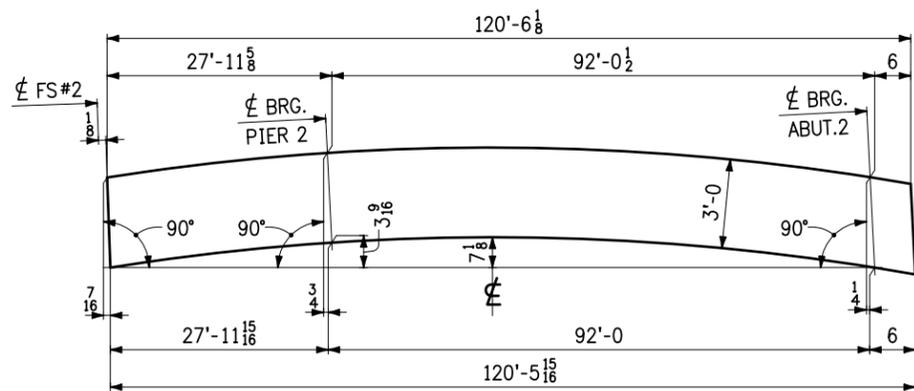
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SECT. BR

- ONE ~ GIRDER ~ 13G3C**
- FOR GIRDER STANDARD DETAILS, SEE SHT. X2.
  - FOR WEB CUTTING DIAGRAM, SEE SHT. C4.
  - FOR FLANGE CUTTING DIAGRAMS, SEE SHT. C4.
  - FOR GENERAL NOTES, SEE SHT. GN1.
  - "BRG. AREA" INDICATES AREA THAT MUST BE FLAT TO PROVIDE A UNIFORM EVEN CONTACT WITH SOLE PLATE.

NO.	DATE	REMARKS	BY
REVISIONS			
		<b>CASCO BAY STEEL STRUCTURES</b> ONE WALLACE AVENUE PHONE: 207-780-6722 SOUTH PORTLAND, ME 04106 FAX: 207-780-6726	
STRUCTURE <u>BENMONT AVE. (TH-7) (URBAN MINOR ARTERIAL)</u>			
LOCATION <u>TOWN OF BENNINGTON, VERMONT</u>			
PROJECT NO. <u>BRIDGE NO. 57 PROJECT NO. BRF 1000(16)</u>			
ENGINEER <u>STATE OF VERMONT AGENCY OF TRANSPORTATION</u>			
CUSTOMER <u>ALPINE CONSTRUCTION</u>			
ITEM <u>GIRDER ~ 13G3C</u>			
SURFACE PREP. <u>SSPC-SP10</u> OPEN HOLES <u>15/16 (UN)</u>			
PAINT <u>NONE</u>			
APPROVAL	DRAWN <u>GDC</u> 12-9-14	SHEET NO. <b>13AB</b>	JOB NO. <b>605</b>
SHOP	CHECKED <u>FM</u> 1-6-15		



**CAMBER DIAGRAM**

LINE	NO. OF PCS.	SHIP MARK	ASSY MARK	MATERIAL						REMARKS
				SHAPE	SECTION	LENGTH FT.	IN.	MATERIAL SPEC.	ITEM NO.	
1	1	13G3C			GIRDER					23,336 lbs.
2	1		wa	PL	1/2 x 36	74	2 13/16	M270-50WT2	1 22	4547 lbs.
3	1		wb	PL	1/2 x 36	46	4 1/8	M270-50WT2	1 27	2839 lbs.
4	1		ta	PL	1 x 18	21	11 3/8	M270-50WT2	2 20	1346 lbs.
5	1		tb	PL	1 1/2 x 18	12	0	M270-50WT2	2 13	1011 lbs.
6	1		tc	PL	1 x 18	55	0	M270-50WT2	2 17	3369 lbs.
7	1		td	PL	1 x 18	31	6 1/2	M270-50WT2	2 19	1932 lbs.
8	1		ba	PL	1 x 18	21	11 3/8	M270-50WT2	2 20	1347 lbs.
9	1		bb	PL	1 1/4 x 18	12	0	M270-50WT2	2 15	919 lbs.
10	1		bc	PL	1 x 18	55	0	M270-50WT2	2 17	3369 lbs.
11	1		bd	PL	1 x 18	31	6	M270-50WT2	2 18	1929 lbs.
12										
13	4		x2a	PL	3/4 x 8 1/2	3	0	M270-50W	3 10	G1E 260 lbs.
14	7		x2c	PL	1/2 x 7	3	0	M270-50W	3 11	250 lbs.
15	7		x2f	PL	1/2 x 5	3	0	M270-50W	3 12	179 lbs.
16	6		x2k	L	4 x 4 x 3/8	0	8	M270-50W	3 13	39 lbs.
17										
18	12				7/8 HSB	0	2 1/4	M164 TYPE 3	6 2	
19	12				7/8 WASHER			M293-3	6 6	
20										
21										
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Vermont Agency of Transportation

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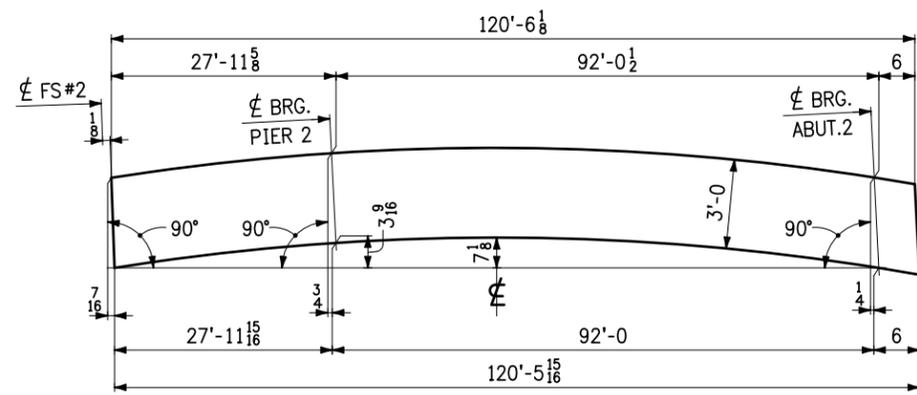
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**RICK HEBERT**  
REVIEWER

**2/2/2015**  
DATE

NO.	DATE	REMARKS	BY
REVISIONS			
		<b>CASCO BAY STEEL STRUCTURES</b> <small>ONE WALLACE AVENUE SOUTH PORTLAND, ME 04106 PHONE: 207-780-6722 FAX: 207-780-6726</small>	
STRUCTURE	BENMONT AVE. (TH-7) (URBAN MINOR ARTERIAL)		
LOCATION	TOWN OF BENNINGTON, VERMONT		
PROJECT NO.	BRIDGE NO. 57 PROJECT NO. BRP 1000(16)		
ENGINEER	STATE OF VERMONT AGENCY OF TRANSPORTATION		
CUSTOMER	ALPINE CONSTRUCTION		
ITEM	GIRDER ~ 13G3C		
SURFACE PREP.	SSPC-SP10 OPEN HOLES		
PAINT	NONE		
APPROVAL	DRAWN <i>GDC</i> 12-8-14	SHEET NO.	JOB NO.
SHOP	CHECKED <i>FM</i> 1-6-15	<b>13B</b>	<b>605</b>





**CAMBER DIAGRAM**

LINE	NO. OF PCS.	SHIP MARK	ASSY MARK	MATERIAL					REMARKS	
				SHAPE	SECTION	LENGTH FT.	IN.	MATERIAL SPEC.		ITEM NO.
1	1	14G4C			GIRDER					23,225 lbs.
2	1		wa	PL	1/2 x 36	71	2 13/16	M270-50WT2	1 24	4363 lbs.
3	1		wb	PL	1/2 x 36	49	4 1/8	M270-50WT2	1 25	3022 lbs.
4	1		ta	PL	1 x 18	21	11 3/8	M270-50WT2	2 20	1346 lbs.
5	1		tb	PL	1 1/8 x 18	12	0	M270-50WT2	2 13	1011 lbs.
6	1		tc	PL	1 x 18	55	0	M270-50WT2	2 17	3369 lbs.
7	1		td	PL	1 x 18	31	6 1/2	M270-50WT2	2 19	1932 lbs.
8	1		ba	PL	1 x 18	21	11 3/8	M270-50WT2	2 20	1347 lbs.
9	1		bb	PL	1 1/4 x 18	12	0	M270-50WT2	2 15	919 lbs.
10	1		bc	PL	1 x 18	55	0	M270-50WT2	2 17	3369 lbs.
11	1		bd	PL	1 x 18	31	6	M270-50WT2	2 18	1929 lbs.
12										
13	4		x2a	PL	3/4 x 8 1/2	3	0	M270-50W	3 10	G1E 260 lbs.
14	7		x2d	PL	1/2 x 5	3	0	M270-50W	3 12	179 lbs.
15	7		x2g	PL	1/2 x 5	3	0	M270-50W	3 12	179 lbs.
16										
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STRUCTURE	BENMONT AVE. (TH-7) (URBAN MINOR ARTERIAL)		
LOCATION	TOWN OF BENNINGTON, VERMONT		
PROJECT NO.	BRIDGE NO. 57 PROJECT NO. BRP 1000(16)		
ENGINEER	STATE OF VERMONT AGENCY OF TRANSPORTATION		
CUSTOMER	ALPINE CONSTRUCTION		
ITEM	GIRDER ~ 14G4C		
SURFACE PREP.	SSPC-SP10	OPEN HOLES	
PAINT	NONE		
APPROVAL	DRAWN <i>GDC</i> 12-8-14	SHEET NO.	JOB NO.
SHOP	CHECKED <i>FM</i> 1-6-15	<b>14B</b>	<b>605</b>

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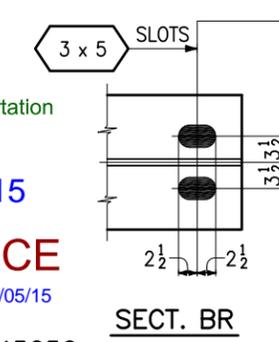
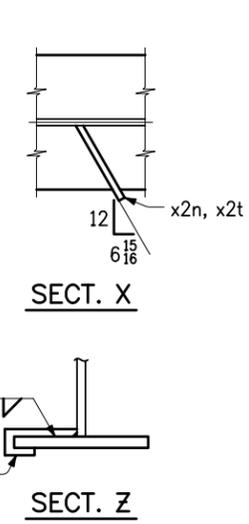
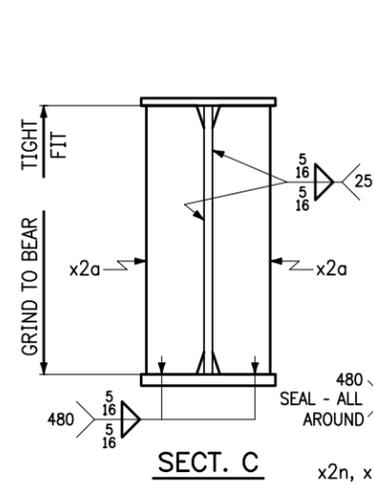
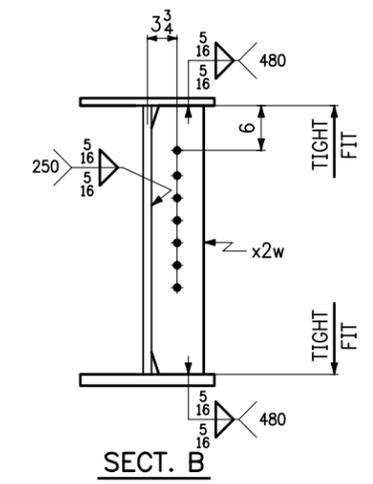
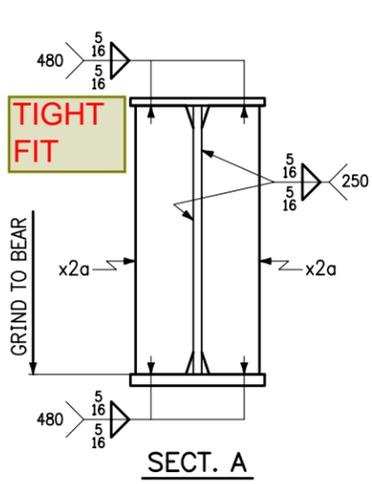
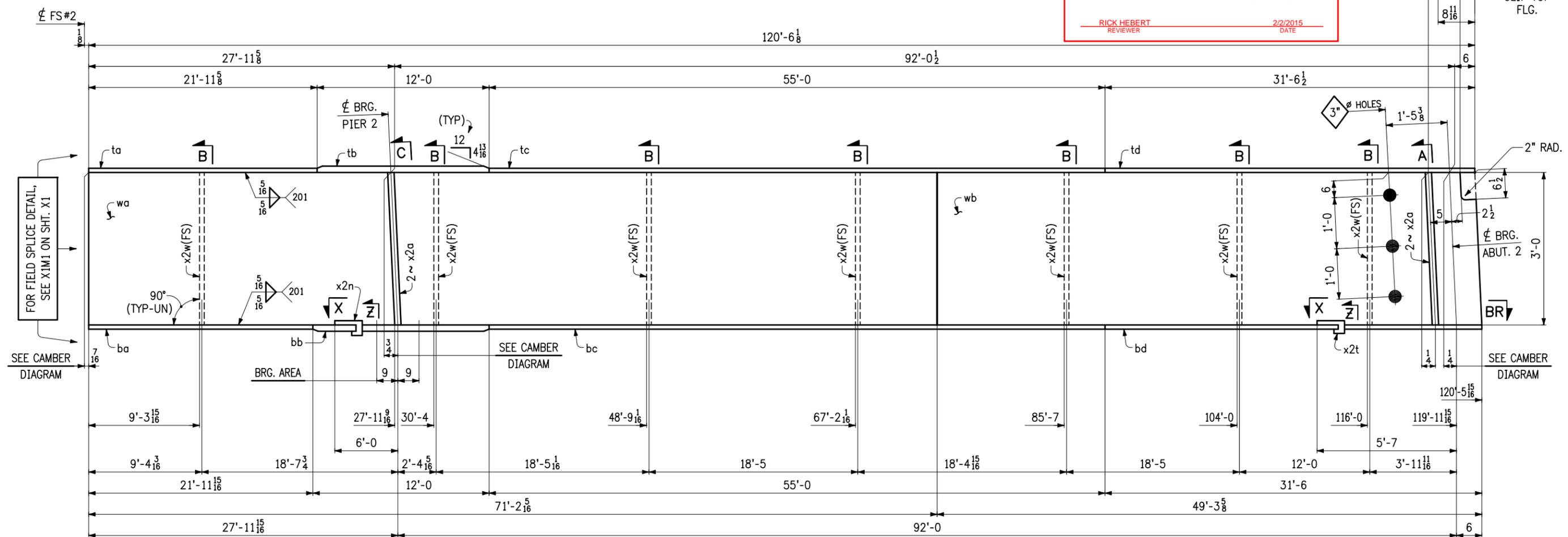
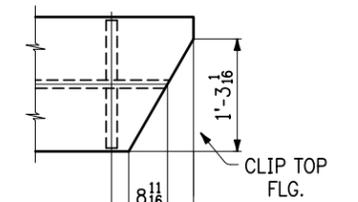
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RICK HEBERT  
REVIEWER

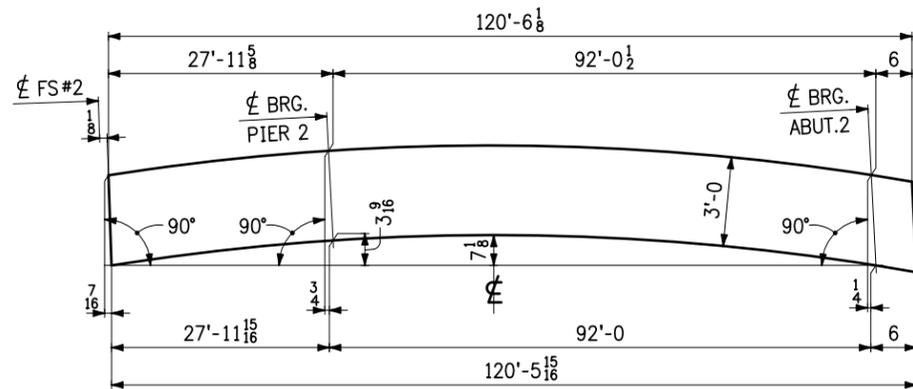
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- ONE ~ GIRDER ~ 15G5C**
- FOR GIRDER STANDARD DETAILS, SEE SHT. X2.
  - FOR WEB CUTTING DIAGRAM, SEE SHT. C5.
  - FOR FLANGE CUTTING DIAGRAMS, SEE SHT. C5.
  - FOR GENERAL NOTES, SEE SHT. GN1.
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LOCATION <u>TOWN OF BENNINGTON, VERMONT</u>			
PROJECT NO. <u>BRIDGE NO. 57 PROJECT NO. BRF 1000(16)</u>			
ENGINEER <u>STATE OF VERMONT AGENCY OF TRANSPORTATION</u>			
CUSTOMER <u>ALPINE CONSTRUCTION</u>			
ITEM <u>GIRDER ~ 15G5C</u>			
SURFACE PREP. <u>SSPC-SP10</u> OPEN HOLES <u>15/16" (UN)</u>			
PAINT <u>NONE</u>			
APPROVAL	DRAWN <u>GDC</u> 12-9-14	SHEET NO. <u>15AB</u>	JOB NO. <u>605</u>
SHOP	CHECKED <u>FM</u> 1-6-15		



**CAMBER DIAGRAM**

LINE	NO. OF PCS.	SHIP MARK	ASS'Y MARK	MATERIAL					REMARKS	
				SHAPE	SECTION	LENGTH FT.	IN.	MATERIAL SPEC.		ITEM NO.
1	1	15G5C			GIRDER				23,052 lbs.	
2	1		wa	PL	1/2 x 36	71	2 13/16	M270-50WT2	1 24	4363 lbs.
3	1		wb	PL	1/2 x 36	49	4 1/8	M270-50WT2	1 25	3022 lbs.
4	1		ta	PL	1 x 18	21	11 3/8	M270-50WT2	2 20	1346 lbs.
5	1		tb	PL	1 1/2 x 18	12	0	M270-50WT2	2 13	1011 lbs.
6	1		tc	PL	1 x 18	55	0	M270-50WT2	2 17	3369 lbs.
7	1		td	PL	1 x 18	31	6 1/2	M270-50WT2	2 19	1932 lbs.
8	1		ba	PL	1 x 18	21	11 3/8	M270-50WT2	2 20	1347 lbs.
9	1		bb	PL	1 1/4 x 18	12	0	M270-50WT2	2 15	919 lbs.
10	1		bc	PL	1 x 18	55	0	M270-50WT2	2 17	3369 lbs.
11	1		bd	PL	1 x 18	31	6	M270-50WT2	2 18	1929 lbs.
12										
13	4		x2a	PL	3/4 x 8 1/2	3	0	M270-50W	3 10	G1E 260 lbs.
14	7		x2w	PL	1/2 x 5	3	0	M270-50W	3 12	179 lbs.
15	1		x2n	PL	1/4 x 3 1/4	1	0 1/8	M270-50W	7 2	3 lbs.
16	1		x2t	PL	1/4 x 3	1	0 1/8	M270-50W	7 2	3 lbs.
17										
18										
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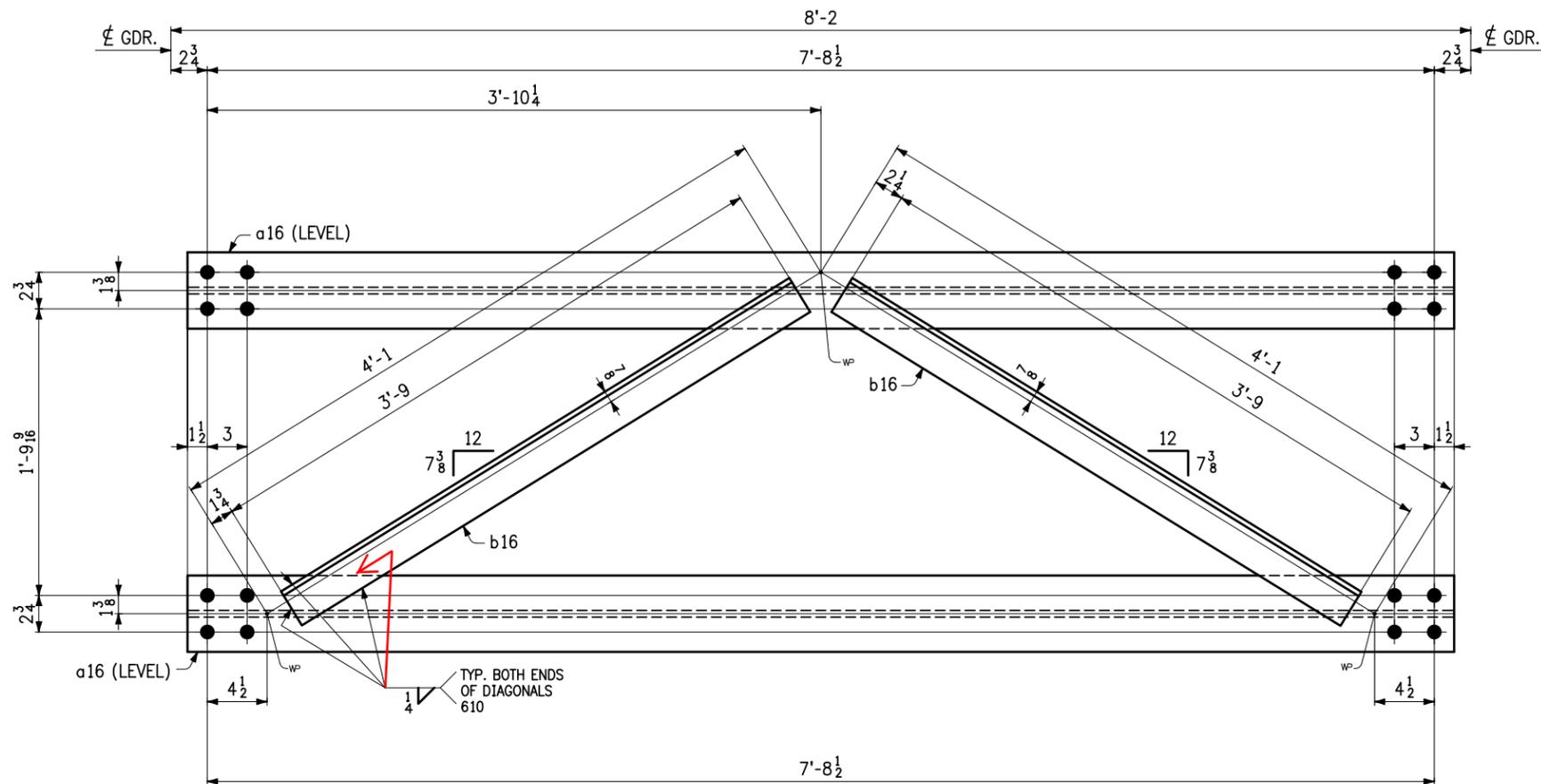
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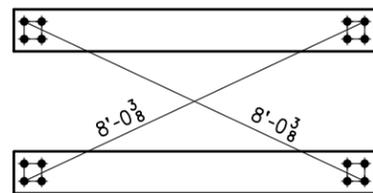
**RICK HEBERT**  
REVIEWER

**2/2/2015**  
DATE

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REVISIONS									
					<b>CASCO BAY STEEL STRUCTURES</b> <small>ONE WALLACE AVENUE SOUTH PORTLAND, ME 04106 PHONE: 207-780-6722 FAX: 207-780-6726</small>				
STRUCTURE <u>BENMONT AVE. (TH-7) (URBAN MINOR ARTERIAL)</u>									
LOCATION <u>TOWN OF BENNINGTON, VERMONT</u>									
PROJECT NO. <u>BRIDGE NO. 57 PROJECT NO. BRP 1000(16)</u>									
ENGINEER <u>STATE OF VERMONT AGENCY OF TRANSPORTATION</u>									
CUSTOMER <u>ALPINE CONSTRUCTION</u>									
ITEM <u>GIRDER ~ 15G5C</u>									
SURFACE PREP. <u>SSPC-SP10</u> OPEN HOLES _____									
PAINT <u>NONE</u>									
APPROVAL	DRAWN	GDC	12-10-14	SHEET NO.	JOB NO.				
SHOP	CHECKED	FM	1-6-15	<b>15B</b>	<b>605</b>				



30 ~ CROSSFRAMES ~ 16CF1



CROSS CORNER CHECK

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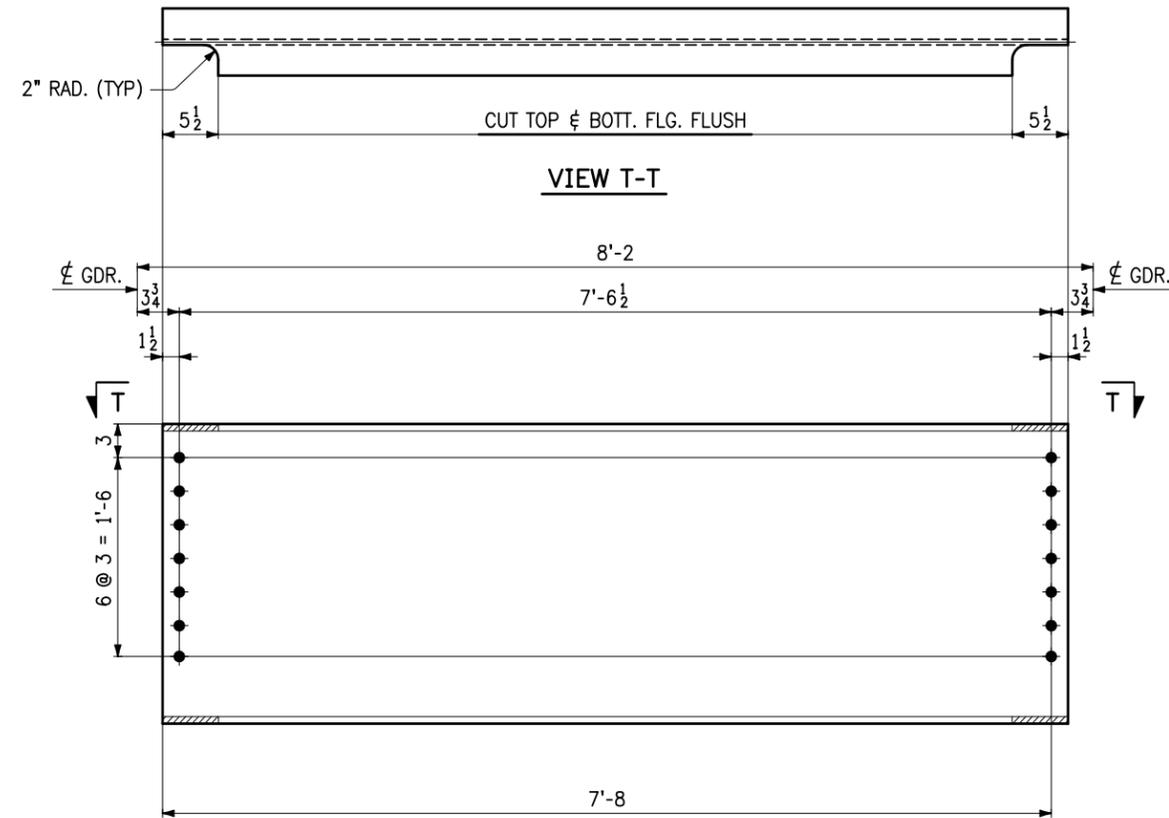
LINE	NO. OF PCS.	SHIP MARK	ASSY MARK	MATERIAL					REMARKS	
				SHAPE	SECTION	LENGTH FT.	IN.	MATERIAL SPEC.		ITEM NO.
1	30	16CF1			CROSSFRAMES				6873 lbs	
2	60		a16	WT	5 x 11	7	11 1/2	M270-50W	4 2	5253 lbs
3	60		b16	L	3 x 3 x 3/8	3	9	M270-50W	4 3	1620 lbs
4										
5										
6										
7										
8										
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**NOTES:**

- FOR GENERAL NOTES, SEE SHT. GN1.

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				<b>CASCO BAY STEEL STRUCTURES</b> ONE WALLACE AVENUE PHONE: 207-780-6722 SOUTH PORTLAND, ME 04106 FAX: 207-780-6726					
STRUCTURE		BENMONT AVE. (TH-7) (URBAN MINOR ARTERIAL)							
LOCATION		TOWN OF BENNINGTON, VERMONT							
PROJECT NO.		BRIDGE NO. 57		PROJECT NO. BRF 1000(16)					
ENGINEER		STATE OF VERMONT AGENCY OF TRANSPORTATION							
CUSTOMER		ALPINE CONSTRUCTION							
ITEM		CROSSFRAMES							
SURFACE PREP.		SSPC-SP10		OPEN HOLES 15/16"					
PAINT		NONE							
APPROVAL	DRAWN	GDC	12-4-14	SHEET NO.		JOB NO.			
SHOP	CHECKED	FM	1-6-15	16		605			



30 ~ DIAPHRAGMS ~ 17D1

LINE	NO. OF PCS.	SHIP MARK	ASSY MARK	MATERIAL					REMARKS	
				SHAPE	SECTION	LENGTH FT.	IN.	MATERIAL SPEC.		ITEM NO.
1					DIAPHRAGMS					
2	30	17D1		W	27 x 84	7	9 1/2	M270-50W	4	19,635 lbs.
3										
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Vermont Agency of Transportation  
**RECEIVED**  
 ON: **January 14, 2015**  
 and Checked for  
**CONFORMANCE**  
 BY: **D Bonneau** DATE: **02/05/15**

**NOTES:**

- FOR GENERAL NOTES, SEE SHT. GN1.

**T.Y. LIN INTERNATIONAL**

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- REVISE AND RESUBMIT

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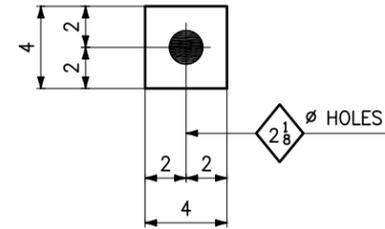
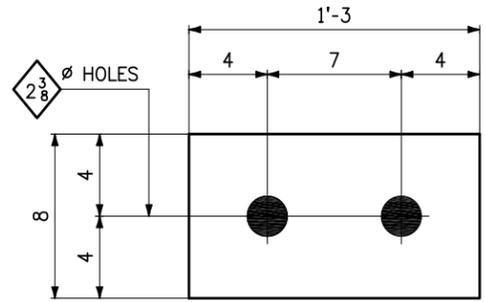
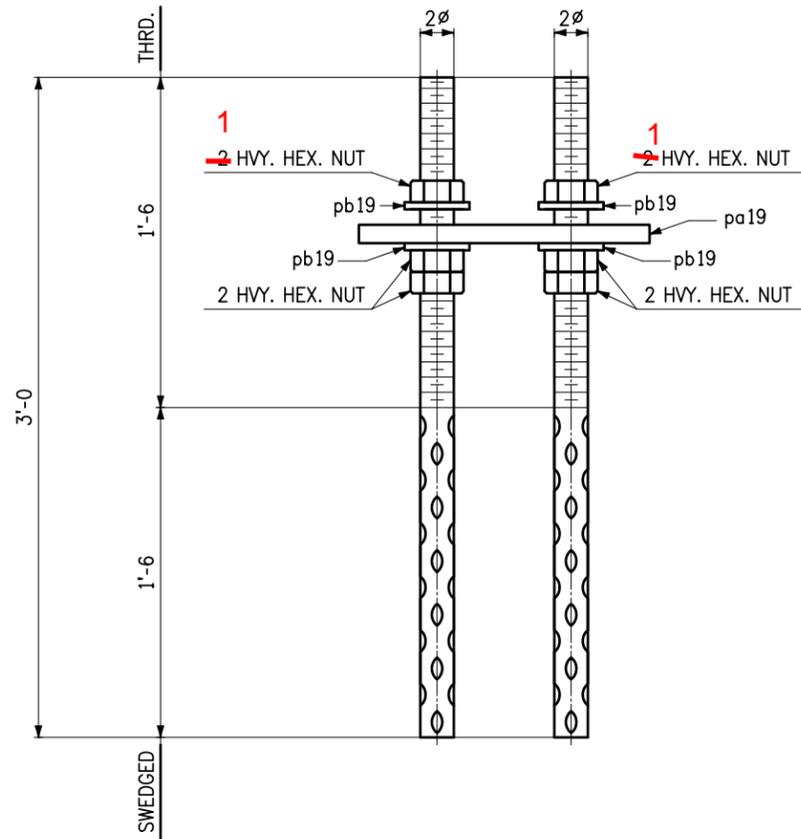
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**RICK HEBERT**  
 REVIEWER

**2/2/2015**  
 DATE

NO.	DATE	REMARKS	BY
REVISIONS			
		<b>CASCO BAY STEEL STRUCTURES</b> ONE WALLACE AVENUE PHONE: 207-780-6722 SOUTH PORTLAND, ME 04106 FAX: 207-780-6726	
STRUCTURE	BENMONT AVE. (TH-7) (URBAN MINOR ARTERIAL)		
LOCATION	TOWN OF BENNINGTON, VERMONT		
PROJECT NO.	BRIDGE NO. 57 PROJECT NO. BRF 1000(16)		
ENGINEER	STATE OF VERMONT AGENCY OF TRANSPORTATION		
CUSTOMER	ALPINE CONSTRUCTION		
ITEM	DIAPHRAGMS		
SURFACE PREP.	SSPC-SP10	OPEN HOLES	15/16"
PAINT	NONE		
APPROVAL	DRAWN <i>GDC</i> 12-4-14	SHEET NO.	JOB NO.
SHOP	CHECKED <i>FM</i> 1-6-15	<b>17</b>	<b>605</b>





LEVELING PLATE DETAIL ~ pa19

SQUARE WASHER DETAIL ~ pb19

10 ~ LEVELING BOLT ASSEMBLIES ~ 19AB  
(ABUT. 1 & 2)

LINE	NO. OF PCS.	SHIP MARK	ASSY MARK	MATERIAL					REMARKS	
				SHAPE	SECTION	LENGTH FT.	IN.	MATERIAL SPEC.		ITEM NO.
1	10	19AB		LEVELING ASSEMBLY					1379 lbs.	
2	20			ROD	2 $\phi$	3	0	F1554-55	4/14	640 lbs.
3	60			NUT	2 $\phi$			A563M	4/15	180 lbs.
4	10		pa19	PL	1 3/8 x 8	1	3	M270-50W	4/17	468 lbs.
5	40		pb19	PL	1/2 x 4	0	4	M270-50W	4/16	91 lbs.
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REVIEWER

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STRUCTURE		BENMONT AVE. (TH-7) (URBAN MINOR ARTERIAL)	
LOCATION		TOWN OF BENNINGTON, VERMONT	
PROJECT NO.		BRIDGE NO. 57 PROJECT NO. BRF 1000(16)	
ENGINEER		STATE OF VERMONT AGENCY OF TRANSPORTATION	
CUSTOMER		ALPINE CONSTRUCTION	
ITEM		GIRDER LEVELING ASSEMBLY	
SURFACE PREP.		OPEN HOLES AS NOTED	
PAINT		NONE	
APPROVAL	DRAWN	12-9-14	SHEET NO.
SHOP	CHECKED	12-10-14	JOB NO.
			<b>19</b>
			<b>605</b>