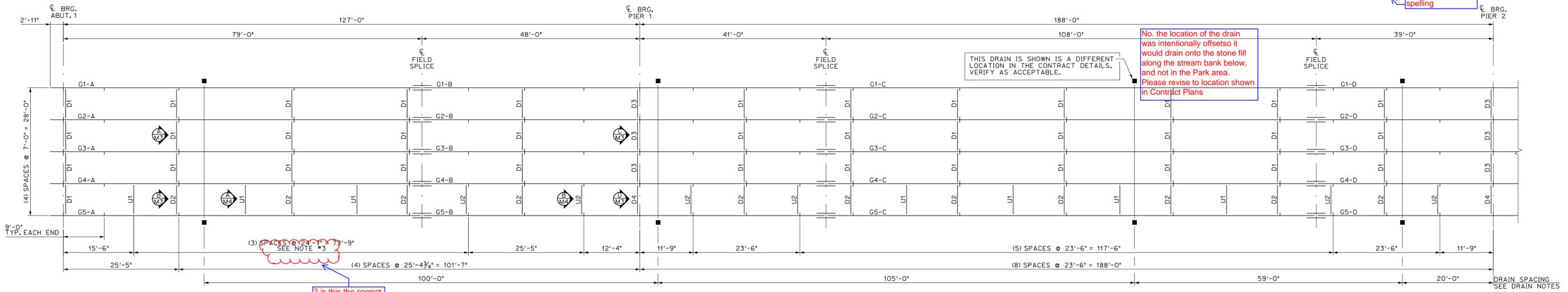


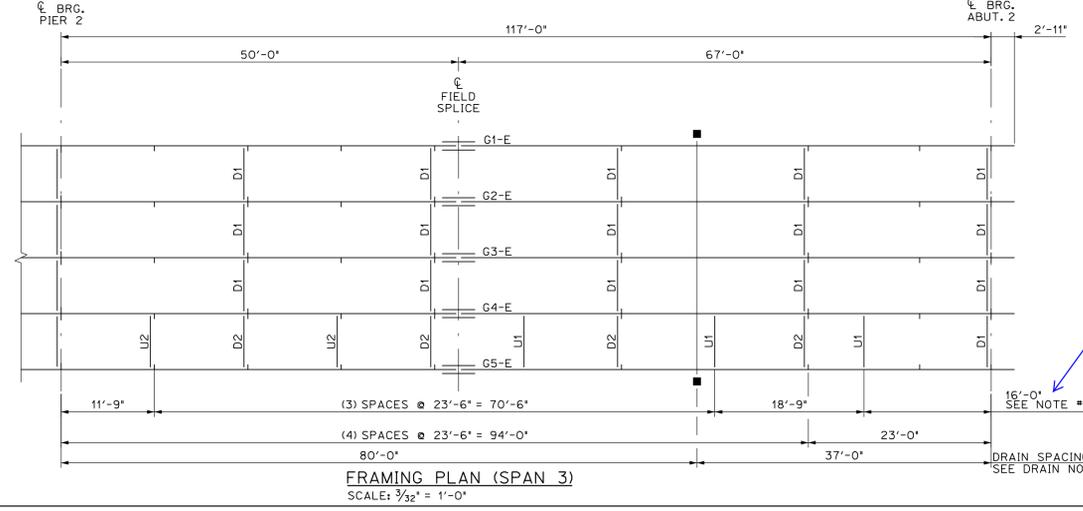
BLOCKING DIAGRAM ~ SEE CHART
 NTS
 ALL DIMENSIONS ARE TO THE OUTSIDE OF BOTTOM FLANGES

TYP. ALL GIRDERS	ABUT. #1							FIELD SPLICE #1							PIER 1							FIELD SPLICE #2							PIER 2							FIELD SPLICE #3							FIELD SPLICE #4							ABUT. #2						
	'A'	'B'	'C'	'D'	'E'	'F'	'G'	'A' SECTION 'FS1-A'	'B' SECTION 'FS1-A'	'H'	'I'	'J'	'K'	'L'	'M'	'A' SECTION 'FS2-B'	'B' SECTION 'FS2-C'	'N'	'O'	'P'	'Q'	'R'	'S'	'T'	'A' SECTION 'FS3-C'	'B' SECTION 'FS3-D'	'U'	'V'	'W'	'X'	'Y'	'A' SECTION 'FS4-D'	'B' SECTION 'FS4-E'	'Z'	'AA'	'BB'	'CC'	'DD'	'EE'																	
	6'	6 1/2'	7'	7 3/16'	7 1/8'	7'	6 5/8'	6 1/16"	6 5/16"	6'	5 3/16"	5 1/8"	5 5/16"	6 5/16"	8 1/2"	8 3/16"	9 1/16"	10 7/16"	11 1/16"	12 3/16"	11 3/16"	10 9/16"	9 1/16"	8 3/16"	8 1/16"	7 7/16"	5 3/8"	5 1/16"	5"	5 3/4"	5 5/16"	6"	6 1/4"	6 3/8"	6 5/8"	6 5/8"	6 1/2"	6 1/4"	6"																	

- ### GENERAL FABRICATION NOTES
- MATERIAL SPECIFICATIONS**
- ALL MATERIAL SHALL BE ASTM A709 GRADE 50W (UNO)
 - ALL A709 GRADE 50 MATERIAL DENOTED "CVN" SHALL MEET THE CHARPY V-NOTCH TESTING REQUIREMENTS OF ZONE 2. H FREQUENCY: 15 FT-LB AT 40° (UP TO 2" WELDED)
 - BOLTS SHALL BE HIGH STRENGTH BOLTS ASTM A325, TYPE 3. NUTS SHALL BE A563 GRADE C3 OR DH3. WASHERS SHALL BE ASTM F436, TYPE 3.
- FABRICATION**
- DIE STAMPING IS ALLOWED IN SPECIFIC LOCATIONS WITH THE APPROVAL OF THE ENGINEER.
 - ALL EDGES OF FLAME CUT MATERIAL SUBJECTED TO CALCULATED STRESSES SHALL BE ROUNDED TO A MINIMUM RADIUS OF 1/16" OR AN EQUIVALENT FLAT SURFACE AT A SURTABLE ANGLE.
 - ALL PLATES, FLAME CUT FROM LARGER PLATES, SHALL BE CUT SO THAT THE PRIMARY DIRECTION OF ROLLING IS PARALLEL TO THE MAIN TENSILE OR COMPRESSIVE STRESS. STANDARD SPEC. 504.18, DECEMBER, 2002.
 - FLANGE PLATE MATERIAL SHALL HAVE AN EDGE HARDNESS HRC 30 AVERAGE AND MAX SINGLE HRC 35, ALLOWED STANDARD SPEC 504.22
- WELDING**
- ALL WELDING PROCEDURES SHALL BE IN ACCORDANCE WITH THE PROVISIONS OF SUBSECTION 506.10.
 - NON DESTRUCTIVE TESTING OF WELDS SHALL BE IN ACCORDANCE WITH ANSI/AASHTO/AWS D1.5 SECTION 6. FLANGE WELDS WILL BE CALLED OUT AS BEING IN EITHER COMPRESSION OR TENSION. WEB WELDS WILL LABEL EITHER TOP OR BOTTOM AS BEING IN COMPRESSION, OR BE LABELED AS BEING IN A STRESS REVERSAL AREA.
- FLANGE SPLICES SHALL BE TESTED AS FOLLOWS:**
- FLANGE SPLICES IN TENSION ~ TESTED 100%
 - FLANGE SPLICES IN STRESS REVERSAL AREAS ~ TESTED 100%
 - FLANGE SPLICES IN COMPRESSION ~ TESTED 25%
- WEB SPLICES SHALL BE TESTED AS FOLLOWS:**
- FOR 1/8" DEPTH OF THE WEB (TENSION AREA) ~ TESTED 100%
 - FOR THE REMAINING DEPTH OF WEB (COMPRESSION AREA) ~ TESTED 25%
 - FOR 1/8" DEPTH OF THE WEB @ TOP & BTM. (STRESS REVERSAL) ~ TESTED 100%
 - THE REMAINING 2/3 OF THE WEB ~ TESTED 25%
- FIELD CONNECTIONS**
- FIELD BOLTS SHALL HAVE A HEAVY HEX NUT, HEX HEAD, AND ONE HARD WASHER EACH.
 - PIECE MARKS WILL BE LOCATED AS SHOWN ON ERECTION DRAWINGS. ALL ERECTION MARKS, MATCH MARKS, AND WEIGHT MARKS MUST NOT BE EXPOSED IN THE FINISHED STRUCTURE.
 - HARDENED WASHERS ARE REQUIRED OVER OVERSIZED HOLES.
- CLEANING AND PAINTING**
- UNPAINTED STEEL SHALL BE BLAST CLEANED TO SSPC SP-6 TO ACHIEVE A UNIFORM WEATHERED APPEARANCE.



FRAMING PLAN (SPAN 1 & 2)
 SCALE: 3/32" = 1'-0"



FRAMING PLAN (SPAN 3)
 SCALE: 3/32" = 1'-0"

DRAIN NOTES:

- DRAIN SPACING IN THE CONTRACT DETAILS VARIES FROM ONE SIDE OF THE BRIDGE TO THE OTHER. VERIFY THAT THE DRAINS SPACED EQUALLY ON EACH SIDE OF THE BRIDGE IS ACCEPTABLE.
- DRAINS ARE TO BE DETAILED IN A SEPARATE SUBMISSION.

SHOP DRAWINGS ARE REVIEWED UNLESS NOTED OTHERWISE

NO EXCEPTION TAKEN	REVISIONS
REVISIONS	RESUBMISSION NOT REQUIRED
REVISIONS	RESUBMISSION REQUIRED
REVISIONS	RESUBMISSION REQUIRED
REVISIONS	RESUBMISSION REQUIRED
REVISIONS	RESUBMISSION REQUIRED

DATE: 1/15/15

SIGNATURE: [Signature]

REVIEW BY: STANTEC IS FOR THE SOLE PURPOSE OF ASCERTAINING GENERAL CONFORMITY WITH DESIGN. CONTRACTOR IS RESPONSIBLE FOR DIMENSIONS, FABRICATION AND CONSTRUCTION METHODS. CONSIDERATION OF SUB-FRAMES, DETAIL DESIGN OF COMPONENTS, AND ERRORS OR OMISSIONS ON SHOP DRAWINGS.

PROJECT No. IM 089-2(43)
 ITEM No. 506.55

FINISH	N/A
MATERIAL	SEE DETAIL SHEETS
HOLES	
ELECTRODES	PER WELD PROCEDURE
WELDS	PER WELD PROCEDURE
SURFACE PREP	

NO DATE DESCRIPTION BY

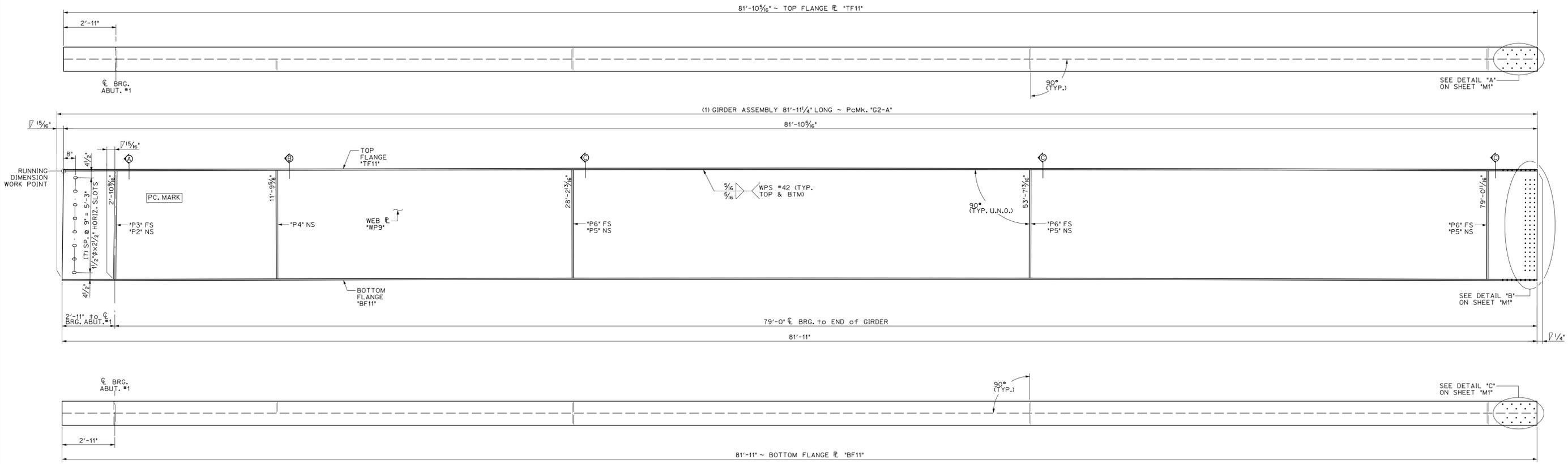
REVISIONS

NO	DATE	DESCRIPTION	BY
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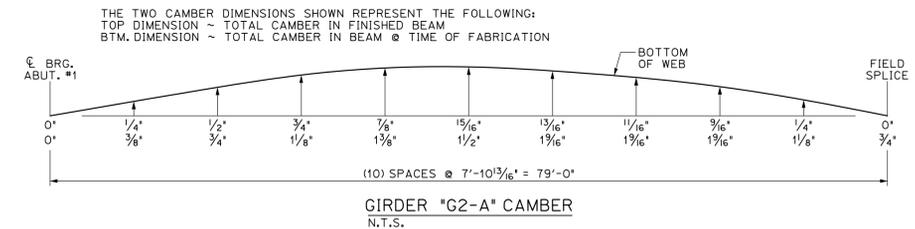
ARC ENTERPRISES, INC.

ADVANCED RESOURCES & CONST. ENTERPRISES, INCORPORATED
 P.O. BOX 120 KINGFIELD, ME. 04947
 PHONE: (207) 265-2646 - FAX: (207) 265-4054

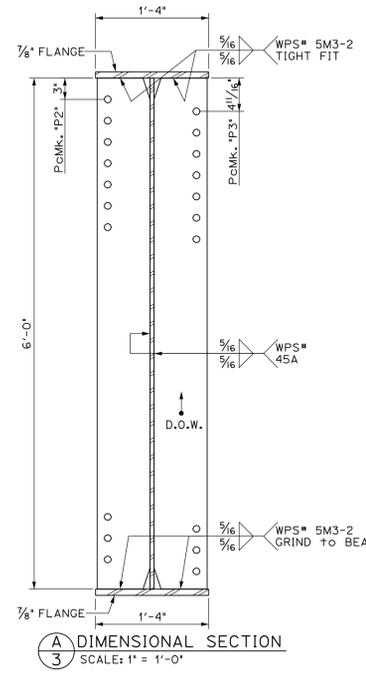
DRAFTER	JUH	FRAMING PLAN	PROJECT NO.	14-148
DATE	NOV. 2014	WATERBURY VT. BRIDGE 48A	DWG. NO.	1
CHECKED	DLM	I-89 EXIT RAMP over STOWE ST. & THATCHER BROOK		
DATE	NOV. 2014	BECK & BELLUCCI		



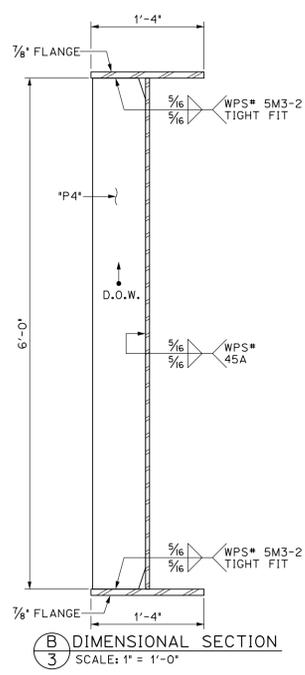
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3 DIMENSIONAL PLANS & ELEVATIONS ~ GIRDER "G2-A"
SCALE: 3/8" = 1'-0"



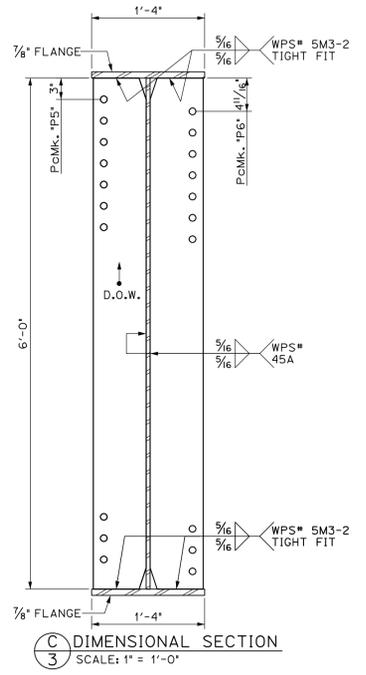
BILL OF MATERIALS							
SHIP MARK	SHIP MARK	NO. PCS.	PIECE MARK	DESCRIPTION	LENGTH	WEIGHT	MATERIAL
1	G2-A			BRIDGE GIRDER ASSEMBLY	81'-11 1/4"	20,000*	
		1	WP9	R 3/16" x 72"	81'-11 1/4"	11,300*	CVN
		1	TF11	R 7/8" x 16"	81'-10 5/16"	3950*	CVN
		1	BF11	R 7/8" x 16"	81'-11"	3950*	CVN
		1	P2	SEE SHEET M2			
		1	P3	SEE SHEET M2			
		1	P4	SEE SHEET M2			
		3	P5	SEE SHEET M2			
		3	P6	SEE SHEET M2			



A
3 DIMENSIONAL SECTION
SCALE: 1" = 1'-0"



B
3 DIMENSIONAL SECTION
SCALE: 1" = 1'-0"



C
3 DIMENSIONAL SECTION
SCALE: 1" = 1'-0"

SHOP DRAWINGS ARE REVIEWED UNLESS NOTED OTHERWISE
NO EXCEPTIONS
REVIEW AS NOTED
PERMISSION NOT REQUIRED
REVIEW AS NOTED
PERMISSION NOT REQUIRED
SEARCHED
DATE: 1/15/15
SIGNATURE: [Signature]
REVIEW BY STANTEC IS FOR THE SOLE PURPOSE OF ASCERTAINING GENERAL CONFORMANCE WITH DESIGN. CONTRACTOR IS RESPONSIBLE FOR DIMENSIONS, FABRICATION AND CONSTRUCTION METHODS, COORDINATION OF SUB-PACKETS, DETAIL DESIGN OF COMPONENTS, AND ERRORS OR OMISSIONS ON SHOP DRAWINGS.

PROJECT No. IM 089-2(43)
ITEM No. 506.55

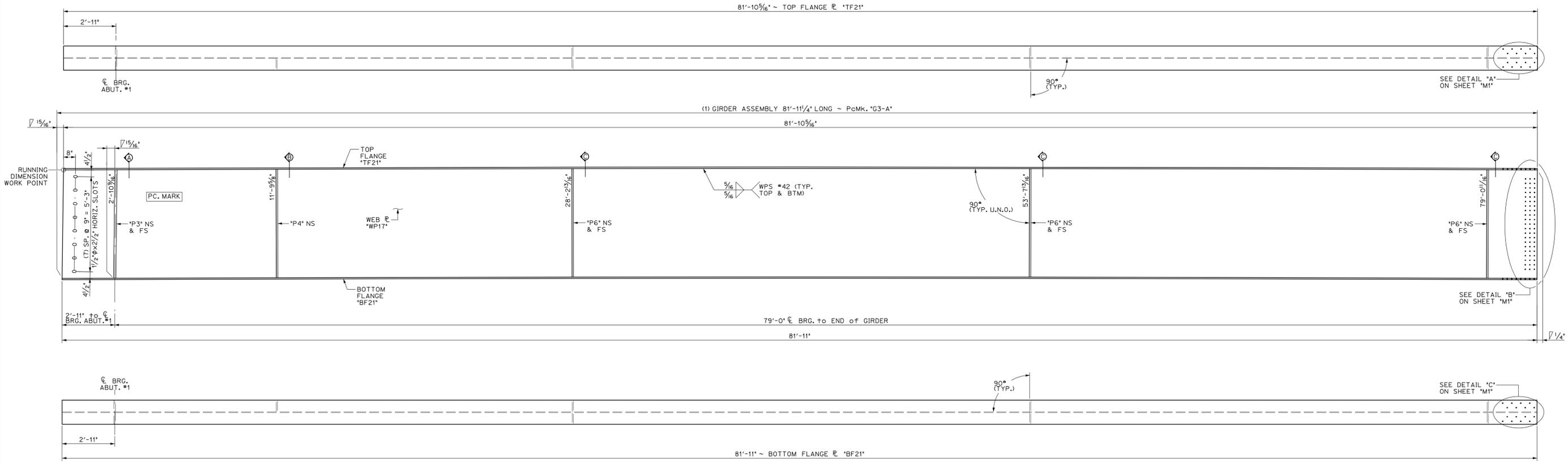
FINISH	SSPC SP6		
MATERIAL	AASHTO M270 (ASTM A709) GRADE 50W		
HOLES	15/16" Ø U.N.O.		
ELECTRODES	PER WELD PROCEDURE		
WELDS	PER WELD PROCEDURE		
SURFACE PREP	SSPC SP6		

NO DATE DESCRIPTION BY

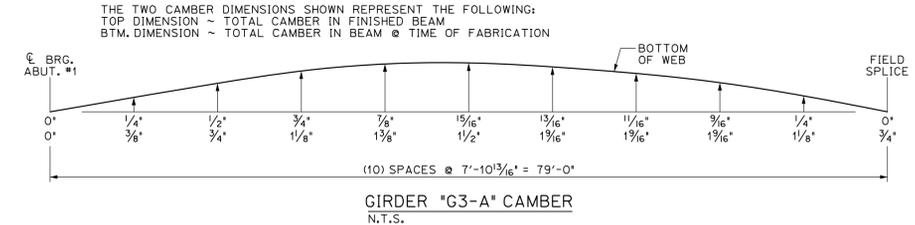
REVISIONS

ARC ENTERPRISES, INC. ADVANCED RESOURCES & CONST. ENTERPRISES, INCORPORATED
P.O. BOX 120 KINGFIELD, ME. 04947
PHONE: (207) 265-2646 - FAX: (207) 265-4054

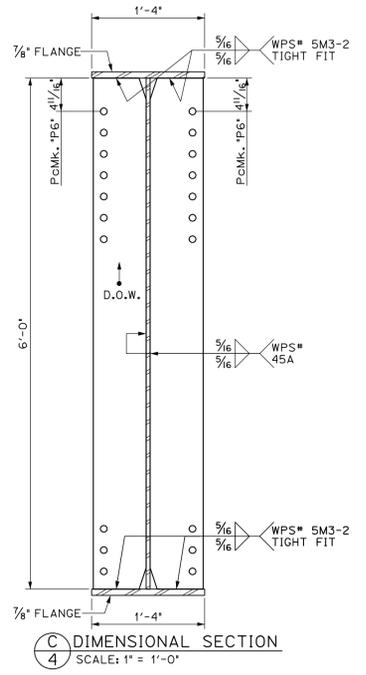
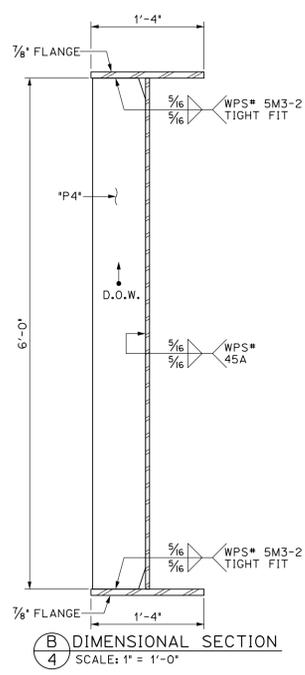
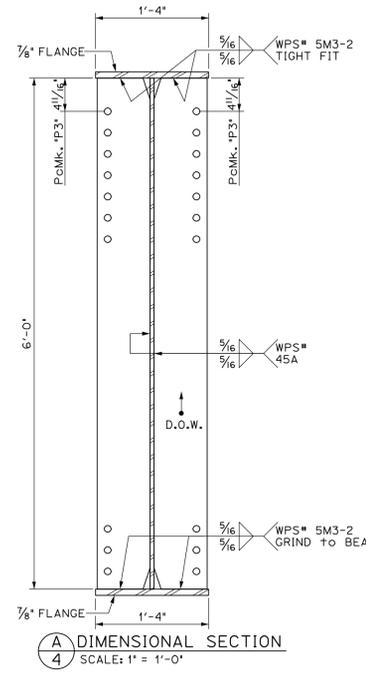
DRAFTER	JUH	GIRDER "G2-A"	PROJECT NO.
DATE	NOV. 2014	WATERBURY VT. BRIDGE 48A	14-148
CHECKED	DLM	I-89 EXIT RAMP over STOWE ST. & THATCHER BROOK	DWG. NO.
DATE	NOV. 2014	BECK & BELLUCCI	3



1
4 DIMENSIONAL PLANS & ELEVATIONS ~ GIRDER "G3-A"
SCALE: 3/8" = 1'-0"



BILL OF MATERIALS							
SHIP MARK	SHIP MARK	NO. PCS.	PIECE MARK	DESCRIPTION	LENGTH	WEIGHT	MATERIAL
1	G3-A			BRIDGE GIRDER ASSEMBLY	81'-11 1/4"	20,000*	
		1	WP17	PL 3/8" x 72'	81'-11 1/4"	11,300*	CVN
		1	TF21	PL 3/8" x 16'	81'-10 5/16"	3,950*	CVN
		1	BF21	PL 3/8" x 16'	81'-11"	3,950*	CVN
		2	P3	SEE SHEET M2			
		1	P4	SEE SHEET M2			
		6	P6	SEE SHEET M2			



SHOP DRAWINGS ARE REVIEWED UNLESS NOTED OTHERWISE

NO EXCEPTION NEEDED

REVISIONS

REVISION NOT REQUIRED

REVISION NOTED

REVISION REQUIRED

DATE: 11/15/15

SIGNATURE: [Signature]

REVIEW BY STANTEC IS FOR THE SOLE PURPOSE OF ASCERTAINING GENERAL CONFORMITY WITH DESIGN. CONTRACTOR IS RESPONSIBLE FOR DIMENSIONS, FABRICATION AND CONSTRUCTION METHODS, COORDINATION OF SUB-TRADES, DETAIL DESIGN OF COMPONENTS, AND ERRORS OR OMISSIONS ON SHOP DRAWINGS.

PROJECT No. IM 089-2(43)
ITEM No. 506.55

FINISH	SSPC SP6
MATERIAL	AASHTO M270 (ASTM A709) GRADE 50W
HOLES	15/16" Ø U.N.O.
ELECTRODES	PER WELD PROCEDURE
WELDS	PER WELD PROCEDURE
SURFACE PREP	SSPC SP6

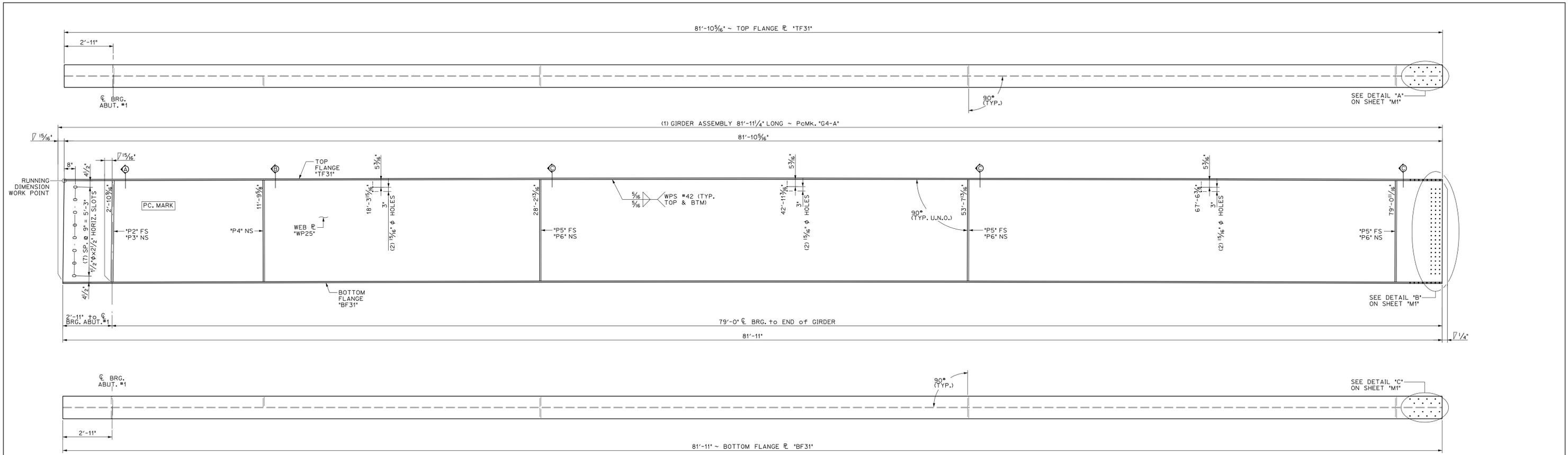
NO DATE DESCRIPTION BY

REVISIONS

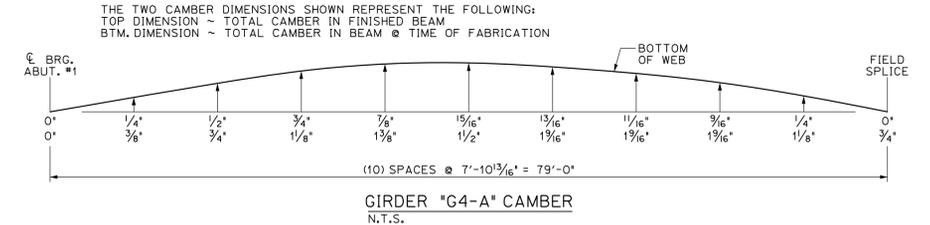
ARC ENTERPRISES, INC.

ADVANCED RESOURCES & CONST. ENTERPRISES, INCORPORATED
P.O. BOX 120 KINGFIELD, ME. 04947
PHONE: (207) 265-2646 - FAX: (207) 265-4054

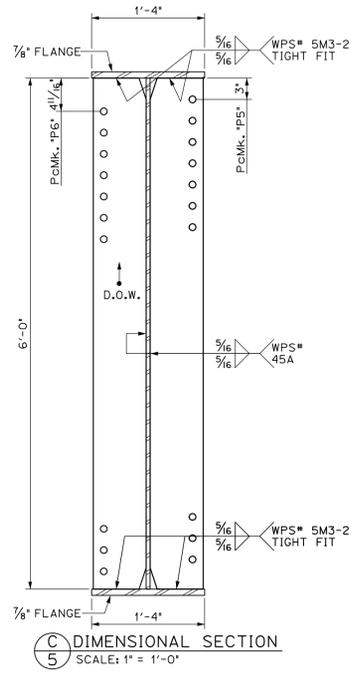
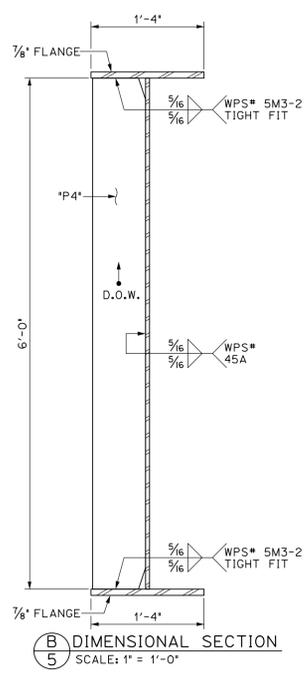
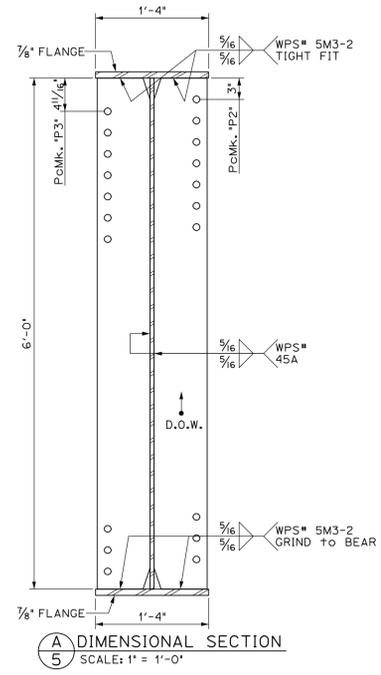
DRAFTER	JUH	GIRDER "G3-A"	PROJECT NO.
DATE	NOV. 2014	WATERBURY VT. BRIDGE 48A	14-148
CHECKED	DLM	I-89 EXIT RAMP over STOWE ST. & THATCHER BROOK	DWG. NO.
DATE	NOV. 2014	CC: BECK & BELLUCCI	4



1
5 DIMENSIONAL PLANS & ELEVATIONS ~ GIRDER "G4-A"
SCALE: 3/8" = 1'-0"

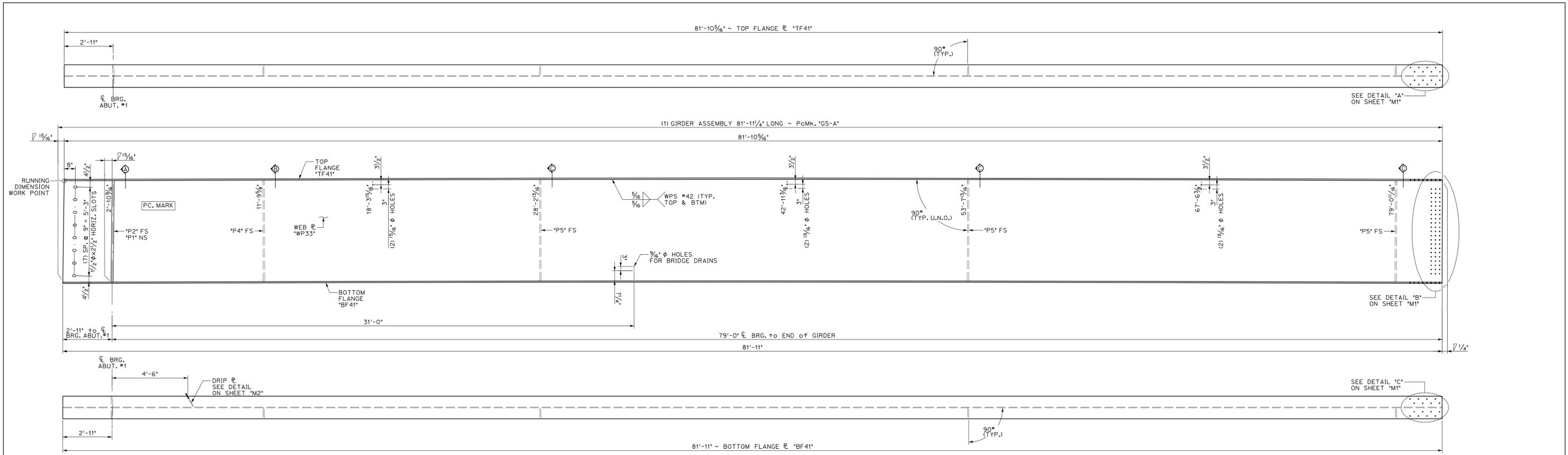


BILL OF MATERIALS							
SHIP	SHIP MARK	NO. PCS.	PIECE MARK	DESCRIPTION	LENGTH	WEIGHT	MATERIAL
1	G4-A			BRIDGE GIRDER ASSEMBLY	81'-11 1/4"	20,000#	
		1	WP25	R 3/8" x 72"	81'-11 1/4"	11,300#	CVN
		1	TF31	R 1/8" x 16"	81'-10 5/16"	3950#	CVN
		1	BF31	R 1/8" x 16"	81'-11"	3950#	CVN
		1	P2	SEE SHEET M2			
		1	P3	SEE SHEET M2			
		1	P4	SEE SHEET M2			
		3	P5	SEE SHEET M2			
		3	P6	SEE SHEET M2			

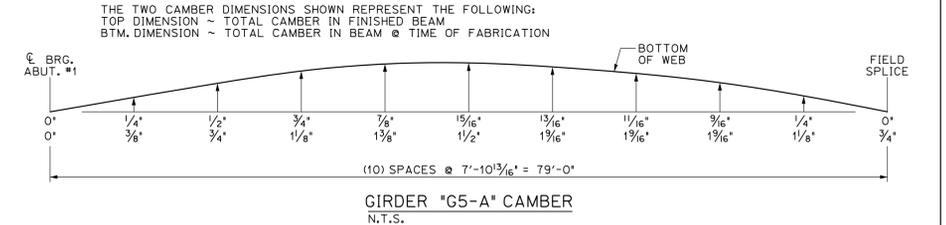


SHOP DRAWINGS ARE REVIEWED UNLESS NOTED OTHERWISE
 NO EXCEPTION - AGEN
 REVISE AS NOTED
 RESUBMISSION NOT REQUIRED
 REVISE AS NOTED
 RESUBMISSION REQUIRED
 RE-ARDED
 DATE: 1/15/15
 SIGNATURE: [Signature]
 REVIEW BY STANTEC IS FOR THE SOLE PURPOSE OF ASCERTAINING GENERAL CONFORMITY WITH DESIGN. CONTRACTOR IS RESPONSIBLE FOR DIMENSIONS, FABRICATION AND CONSTRUCTION METHODS, SELECTION OF SUB-TRADES, DETAIL DESIGN OF COMPONENTS, AND ERRORS OR OMISSIONS ON SHOP DRAWINGS.

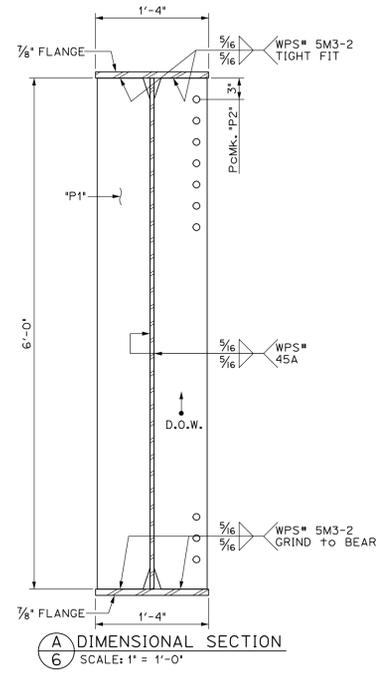
PROJECT No. IM 089-2(43) ITEM No. 506.55			
FINISH	SSPC SP6		
MATERIAL	AASHTO M270 (ASTM A709) GRADE 50W		
HOLES	15/16" Ø U.N.O.		
ELECTRODES	PER WELD PROCEDURE		
WELDS	PER WELD PROCEDURE		
SURFACE PREP	SSPC SP6		
	NO	DATE	DESCRIPTION
REVISIONS			
		ARC ADVANCED RESOURCES & CONST. ENTERPRISES, INCORPORATED P.O. BOX 120 KINGFIELD, ME. 04947 PHONE: (207) 265-2646 - FAX: (207) 265-4054	
DRAFTER	JUH	GIRDER "G4-A"	PROJECT NO.
DATE	NOV. 2014	WATERBURY VT. BRIDGE 48A	14-148
CHECKED	DLM	I-89 EXIT RAMP over STOWE ST. & THATCHER BROOK	DWG. NO.
DATE	NOV. 2014	CC: BECK & BELLUCCI	5



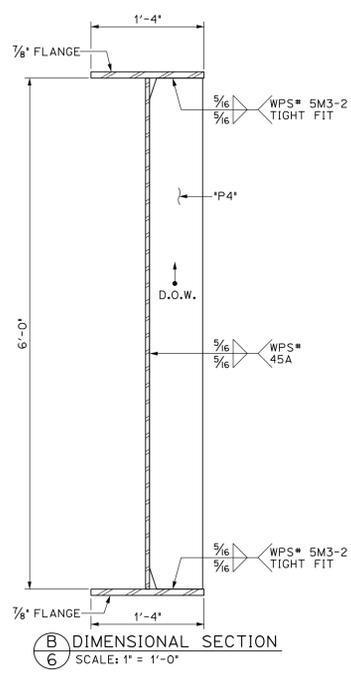
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6 DIMENSIONAL PLANS & ELEVATIONS ~ GIRDER "G5-A"
SCALE: 3/8" = 1'-0"



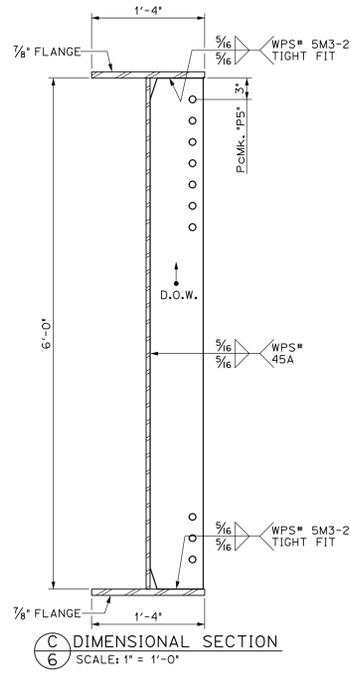
BILL OF MATERIALS							
SHIP	SHIP MARK	NO. PCS.	PIECE MARK	DESCRIPTION	LENGTH	WEIGHT	MATERIAL
1	G5-A			BRIDGE GIRDER ASSEMBLY	81'-11 1/4"	19,800*	
		1	WP33	ℓ 3/16" x 72"	81'-11 1/4"	11,300*	CVN
		1	TF41	ℓ 7/8" x 16"	81'-10 5/16"	3950*	CVN
		1	BF41	ℓ 7/8" x 16"	81'-11"	3950*	CVN
		1	P1	SEE SHEET M2			
		1	P2	SEE SHEET M2			
		1	P4	SEE SHEET M2			
		3	P5	SEE SHEET M2			



A
6 DIMENSIONAL SECTION
SCALE: 1" = 1'-0"



B
6 DIMENSIONAL SECTION
SCALE: 1" = 1'-0"



C
6 DIMENSIONAL SECTION
SCALE: 1" = 1'-0"

SHOP DRAWINGS ARE REVIEWED UNLESS NOTED OTHERWISE

NO EXCEPTIONS WHEN REVIEWED

REVISIONS REQUIRED FOR RESUBMISSION NOT REQUIRED

REVISIONS NOTED FOR RESUBMISSION REQUIRED

REACHED

DATE: 11/5/15

SIGNATURE: [Signature]

REVIEW BY STANTEC IS FOR THE SOLE PURPOSE OF ASCERTAINING GENERAL CONFORMANCE WITH DESIGN. CONTRACTOR IS RESPONSIBLE FOR DIMENSIONS, FABRICATION AND CONSTRUCTION METHODS. COORDINATION OF SUB-TRADES, DETAIL DESIGN OF COMPONENTS, AND ERRORS OR OMISSIONS ON SHOP DRAWINGS.

PROJECT No. IM 089-2(43)
ITEM No. 506.55

FINISH	SSPC SP6
MATERIAL	AASHTO M270 (ASTM A709) GRADE 50W
HOLES	15/16" Ø U.N.O.
ELECTRODES	PER WELD PROCEDURE
WELDS	PER WELD PROCEDURE
SURFACE PREP	SSPC SP6

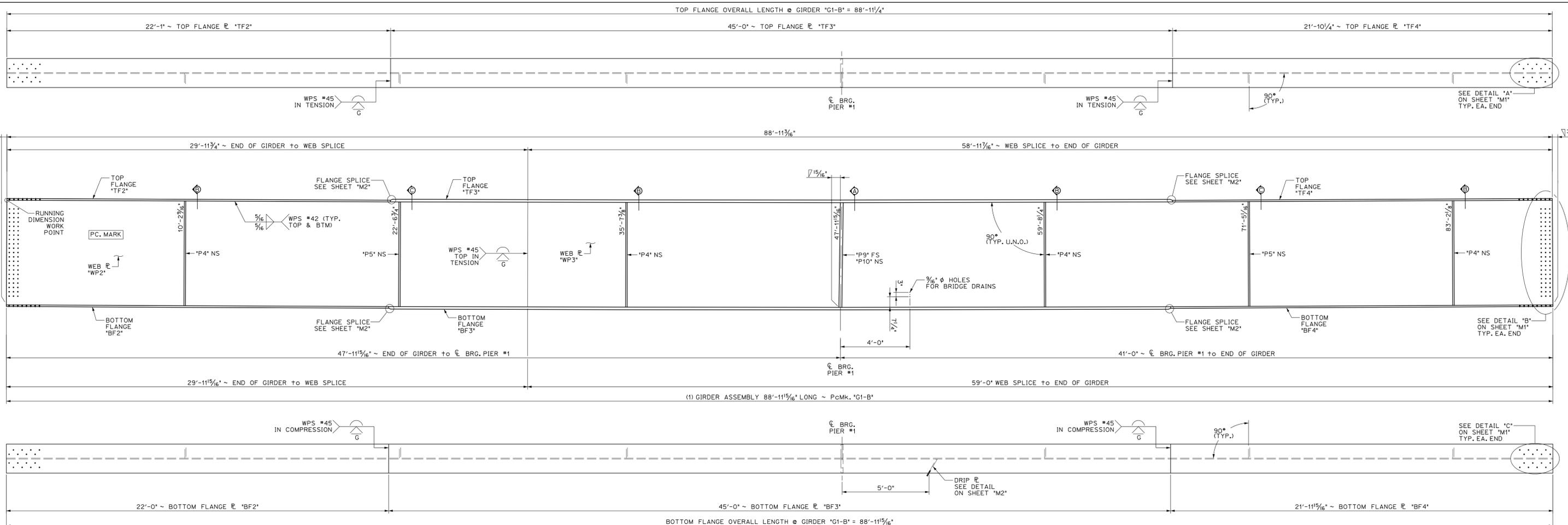
NO DATE DESCRIPTION BY

REVISIONS

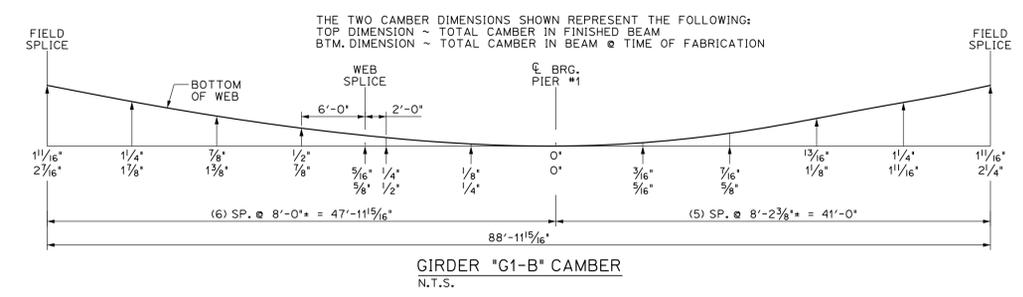
ARC
ENTERPRISES, INC.

ADVANCED RESOURCES & CONST.
ENTERPRISES, INCORPORATED
P.O. BOX 120 KINGFIELD, ME. 04947
PHONE: (207) 265-2646 - FAX: (207) 265-4054

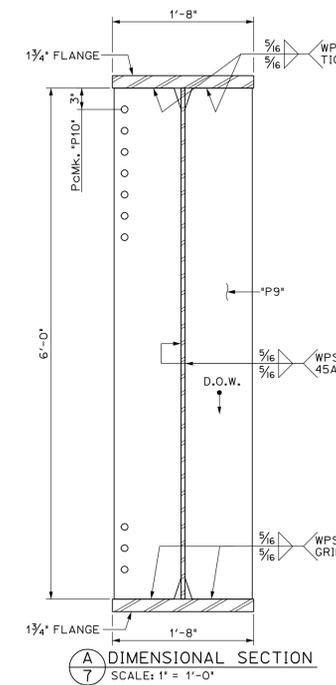
DRAFTER	JUH	GIRDER "G5-A"	PROJECT NO.
DATE	NOV. 2014	WATERBURY VT. BRIDGE 48A	14-148
CHECKED	DLM	I-89 EXIT RAMP over STOWE ST. & THATCHER BROOK	DWG. NO.
DATE	NOV. 2014	CC: BECK & BELLUCCI	6



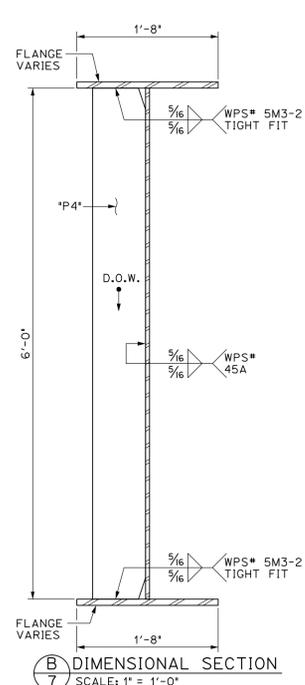
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7 DIMENSIONAL PLANS & ELEVATIONS ~ GIRDER "G1-B"
SCALE: 3/8" = 1'-0"



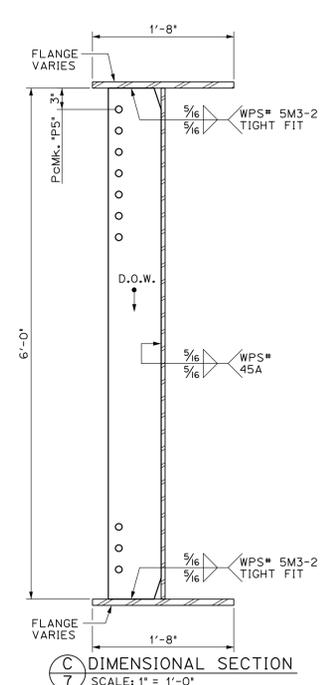
BILL OF MATERIALS							
SHIP	SHIP MARK	NO. PCS.	PIECE MARK	DESCRIPTION	LENGTH	WEIGHT	MATERIAL
1	G1-B			BRIDGE GIRDER ASSEMBLY	88'-11 1/2"	31,000#	
		1	WP2	R 3/8" x 72'	29'-11 1/2"	4150#	CVN
		1	WP3	R 3/8" x 72'	59'-0"	8150#	CVN
		1	TF2	R 1 1/8" x 20"	22'-1"	1725#	CVN
		1	TF3	R 1 3/4" x 20"	45'-0"	5400#	CVN
		1	TF4	R 1 1/8" x 20"	21'-10 1/4"	1725#	CVN
		1	BF2	R 1 1/8" x 20"	22'-0"	1725#	CVN
		1	BF3	R 1 3/4" x 20"	45'-0"	5400#	CVN
		1	BF4	R 1 1/8" x 20"	21'-11 1/2"	1725#	CVN
		4	P4	SEE SHEET M2			
		2	P5	SEE SHEET M2			
		1	P9	SEE SHEET M2			
		1	P10	SEE SHEET M2			



A
7 DIMENSIONAL SECTION
SCALE: 1" = 1'-0"



B
7 DIMENSIONAL SECTION
SCALE: 1" = 1'-0"



C
7 DIMENSIONAL SECTION
SCALE: 1" = 1'-0"

SHOP DRAWINGS ARE REVIEWED UNLESS NOTED OTHERWISE
NO EXCEPTIONS
REVISIONS AS NOTED
RESUBMISSION NOT REQUIRED
REVISIONS AS NOTED
RESUBMISSION REQUIRED
DATE: 11/15/15
SIGNATURE: [Signature]
REVIEW BY: STANTEC ENGINEER FOR THE SOLE PURPOSE OF ASCERTAINING GENERAL CONFORMITY WITH DESIGN. CONTRACTOR IS RESPONSIBLE FOR DIMENSIONS, FABRICATION AND CONSTRUCTION METHODS. COORDINATION OF SUB-TRADES, DETAIL DESIGN OF CONNECTIONS, AND ERRORS OR OMISSIONS ON SHOP DRAWINGS.

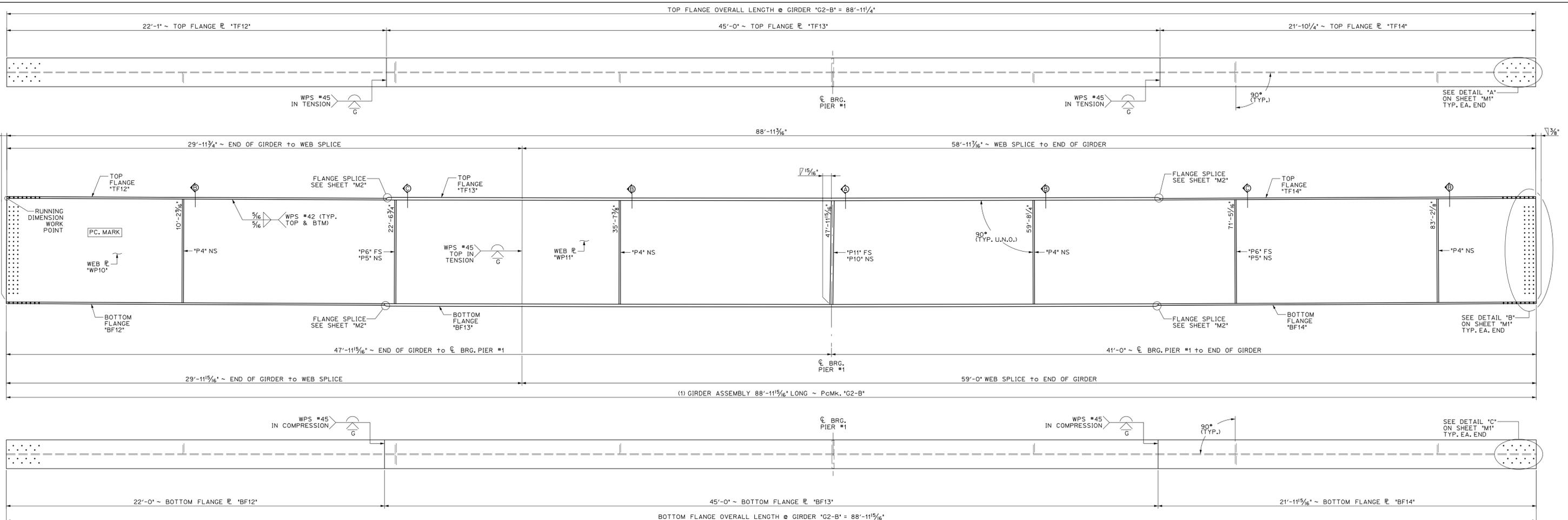
PROJECT No. JM 089-2(43)
ITEM No. 506.55

FINISH	SSPC SP6		
MATERIAL	AASHTO M270 (ASTM A709) GRADE 50W		
HOLES	15/16" Ø U.N.O.		
ELECTRODES	PER WELD PROCEDURE		
WELDS	PER WELD PROCEDURE		
SURFACE PREP	SSPC SP6		

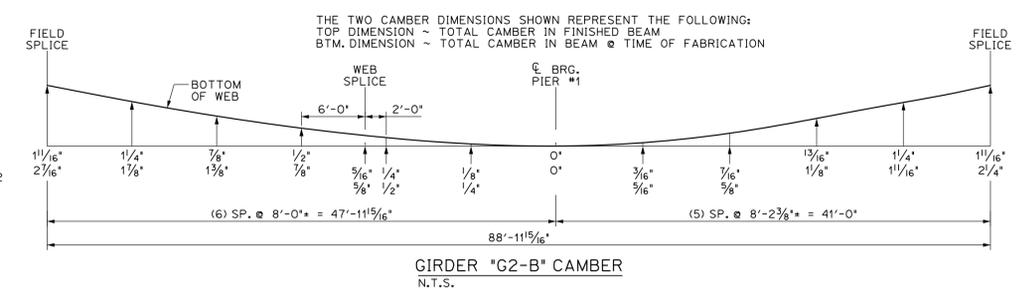
NO.	DATE	DESCRIPTION	BY
REVISIONS			

ARC ENTERPRISES, INC.
ADVANCED RESOURCES & CONST. ENTERPRISES, INCORPORATED
P.O. BOX 120 KINGFIELD, ME, 04947
PHONE: (207) 265-2646 - FAX: (207) 265-4054

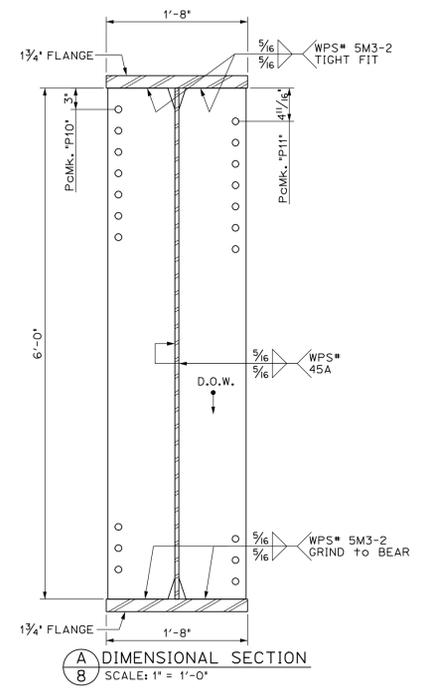
DRAFTER	JJH	GIRDER "G1-B"	PROJECT NO.	14-148
DATE	NOV. 2014	WATERBURY, VT. BRIDGE 46A	DWG. NO.	7
CHECKED	DLM	L-89 EXIT RAMP over STOWE ST. & THATCHER BROOK		
DATE	NOV. 2014	BECK & BELLUCCI		



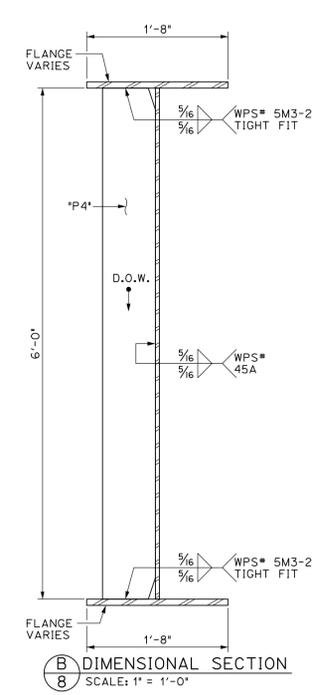
1
8 DIMENSIONAL PLANS & ELEVATIONS ~ GIRDER "G2-B"
SCALE: 3/8" = 1'-0"



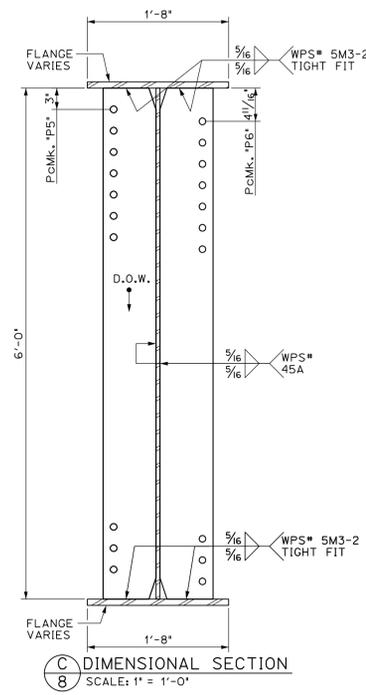
BILL OF MATERIALS							
SHIP MARK	SHIP NO.	NO. PCS.	PIECE MARK	DESCRIPTION	LENGTH	WEIGHT	MATERIAL
1	G2-B			BRIDGE GIRDER ASSEMBLY	88'-11 1/16"	31,200#	
		1	WP10	ℓ 3/8" x 72'	29'-11 1/16"	4150#	CVN
		1	WP11	ℓ 3/8" x 72'	59'-0"	8150#	CVN
		1	TF12	ℓ 1 1/8" x 20"	22'-1"	1725#	CVN
		1	TF13	ℓ 1 1/8" x 20"	45'-0"	5400#	CVN
		1	TF14	ℓ 1 1/8" x 20"	21'-10 1/4"	1725#	CVN
		1	BF12	ℓ 1 1/8" x 20"	22'-0"	1725#	CVN
		1	BF13	ℓ 1 1/8" x 20"	45'-0"	5400#	CVN
		1	BF14	ℓ 1 1/8" x 20"	21'-11 1/16"	1725#	CVN
		4	P4	SEE SHEET M2			
		2	P5	SEE SHEET M2			
		2	P6	SEE SHEET M2			
		1	P10	SEE SHEET M2			
		1	P11	SEE SHEET M2			



A
8 DIMENSIONAL SECTION
SCALE: 1" = 1'-0"



B
8 DIMENSIONAL SECTION
SCALE: 1" = 1'-0"



C
8 DIMENSIONAL SECTION
SCALE: 1" = 1'-0"

SHIP DRAWINGS ARE REVIEWED UNLESS NOTED OTHERWISE
NO EXCEPTION TAKEN
REVIEW AS NOTED
RESUBMISSION NOT REQUIRED
REVIEW AS NOTED
RESUBMISSION REQUIRED
REARDED

DATE: 11/5/15
SIGNATURE: [Signature]

REVIEW BY SHANTEC IS FOR THE SOLE PURPOSE OF ASSESSING GENERAL CONFORMITY WITH DESIGN. CONTRACTOR IS RESPONSIBLE FOR DIMENSIONS, FABRICATION AND CONSTRUCTION METHODS. COORDINATION OF SUB-TRADES, DETAIL DESIGN OF COMPONENTS AND ERRORS OR OMISSIONS ON SHOP DRAWINGS.

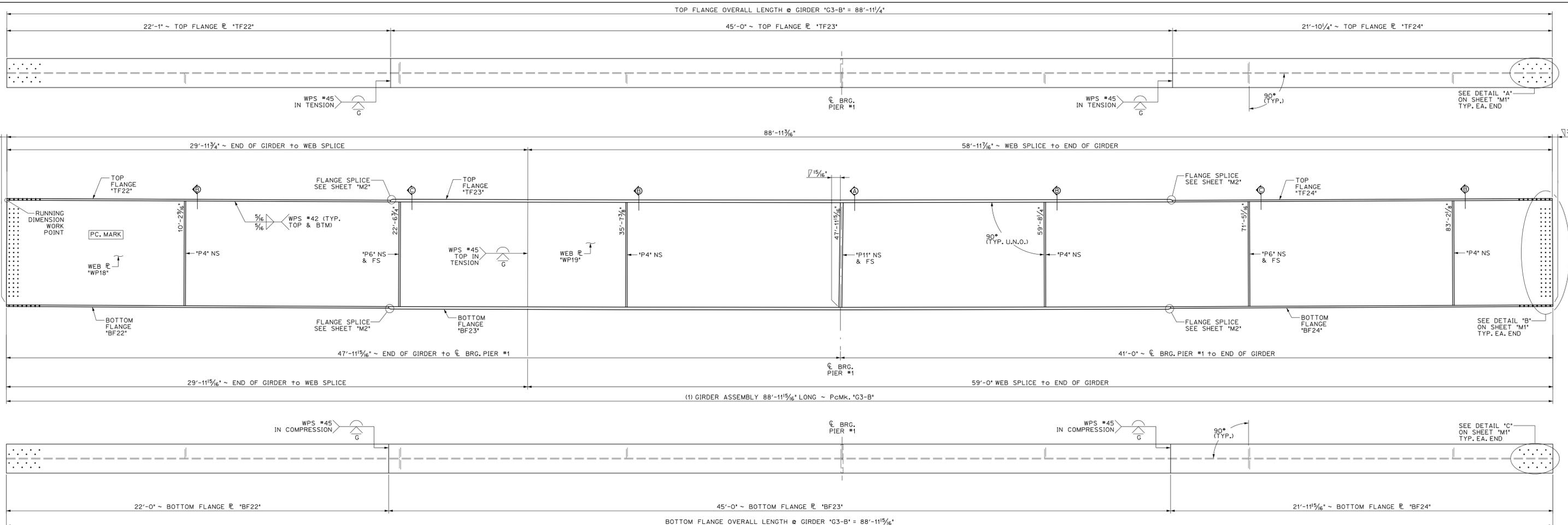
PROJECT No. IM 089-2(43)
ITEM No. 506.55

FINISH	SSPC SP6			
MATERIAL	AASHTO M270 (ASTM A709) GRADE 50W			
HOLES	15/16" Ø U.N.O.			
ELECTRODES	PER WELD PROCEDURE			
WELDS	PER WELD PROCEDURE			
SURFACE PREP	SSPC SP6			

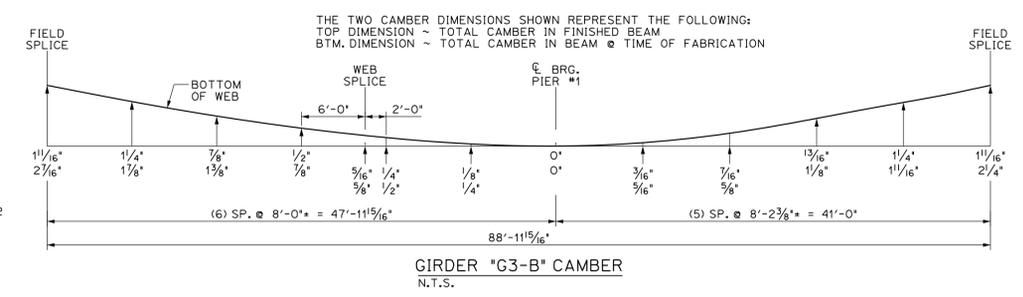
NO.	DATE	DESCRIPTION	BY
REVISIONS			

ARC ENTERPRISES, INC.
ADVANCED RESOURCES & CONST. ENTERPRISES, INCORPORATED
P.O. BOX 120 KINGFIELD, ME, 04947
PHONE: (207) 265-2646 - FAX: (207) 265-4054

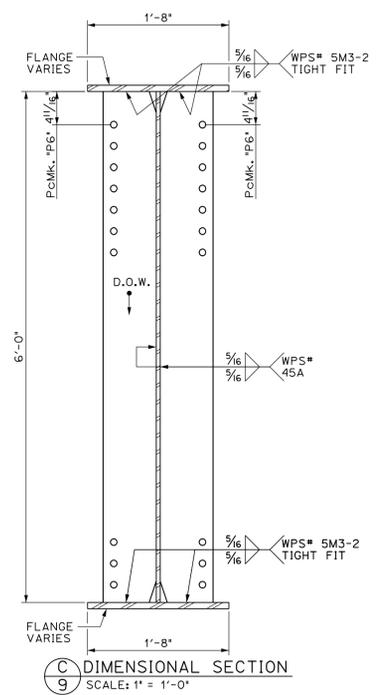
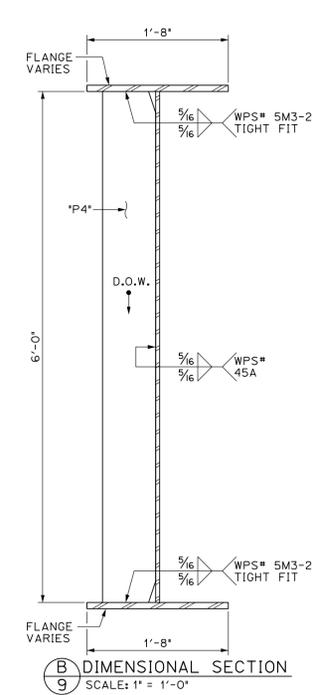
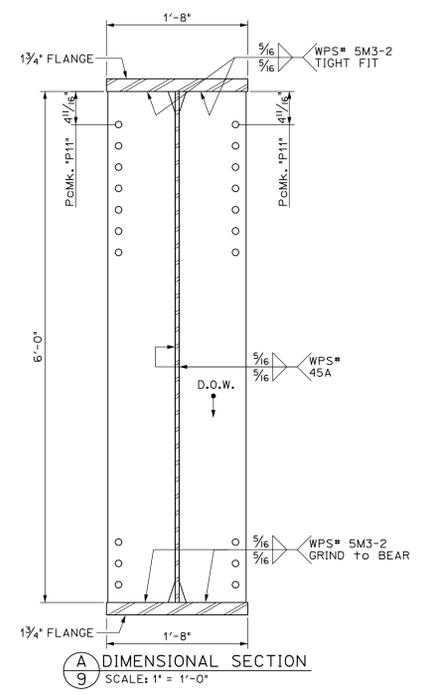
DRAFTER	JJH	GIRDER "G2-B"	PROJECT NO.	14-148
DATE	NOV. 2014	WATERBURY, VT. BRIDGE 46A	DWG. NO.	8
CHECKED	DLM	L-89 EXIT RAMP over STOWE ST. & THATCHER BROOK		
DATE	NOV. 2014	BECK & BELLUCCI		



1 DIMENSIONAL PLANS & ELEVATIONS ~ GIRDER 'G3-B'
 9 SCALE: 3/8" = 1'-0"



BILL OF MATERIALS							
SHIP MARK	SHIP MARK	NO. PCS.	PIECE MARK	DESCRIPTION	LENGTH	WEIGHT	MATERIAL
1	G3-B			BRIDGE GIRDER ASSEMBLY	88'-11 5/16"	31,200#	
		1	WP18	R 3/8" x 72'		4150#	CVN
		1	WP19	R 3/8" x 72'	59'-0"	8150#	CVN
		1	TF22	R 1 1/8" x 20"	22'-1"	1725#	CVN
		1	TF23	R 1 3/4" x 20"	45'-0"	5400#	CVN
		1	TF24	R 1 1/8" x 20"	21'-10 1/4"	1725#	CVN
		1	BF22	R 1 1/8" x 20"	22'-0"	1725#	CVN
		1	BF23	R 1 3/4" x 20"	45'-0"	5400#	CVN
		1	BF24	R 1 1/8" x 20"	21'-11 5/16"	1725#	CVN
		4	P4	SEE SHEET M2			
		4	P6	SEE SHEET M2			
		2	P11	SEE SHEET M2			



SHOP DRAWINGS ARE REVIEWED UNLESS NOTED OTHERWISE

NO EXCEPTION AGEN
 REVIEW AS NOTED
 RESUBMISSION NOT REQUIRED

REVIEW AS NOTED
 RESUBMISSION REQUIRED

REVISION REQUIRED

DATE: 11/15/15

SIGNATURE: [Signature]

REVIEW BY STANTEC IS FOR THE SOLE PURPOSE OF ASCERTAINING GENERAL CONFORMITY WITH DESIGN. CONTRACTOR IS RESPONSIBLE FOR DIMENSIONS, FABRICATION AND CONSTRUCTION METHODS. COORDINATION OF SUB-TRADES, DETAIL DESIGN OF COMPONENTS, AND ERRORS OR OMISSIONS ON SHOP DRAWINGS.

PROJECT No. IM 089-2(43)
 ITEM No. 506.55

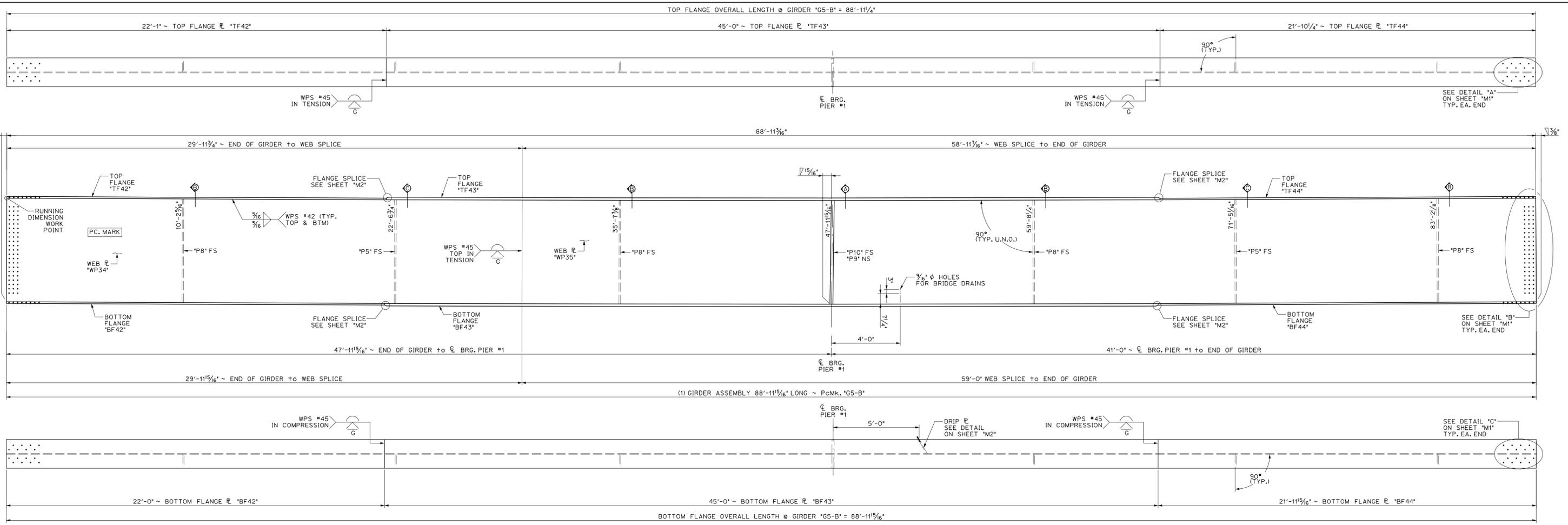
FINISH	SSPC SP6			
MATERIAL	AASHTO M270 (ASTM A709) GRADE 50W			
HOLES	15/16" Ø U.N.O.			
ELECTRODES	PER WELD PROCEDURE			
WELDS	PER WELD PROCEDURE			
SURFACE PREP	SSPC SP6			

NO	DATE	DESCRIPTION	BY
REVISIONS			

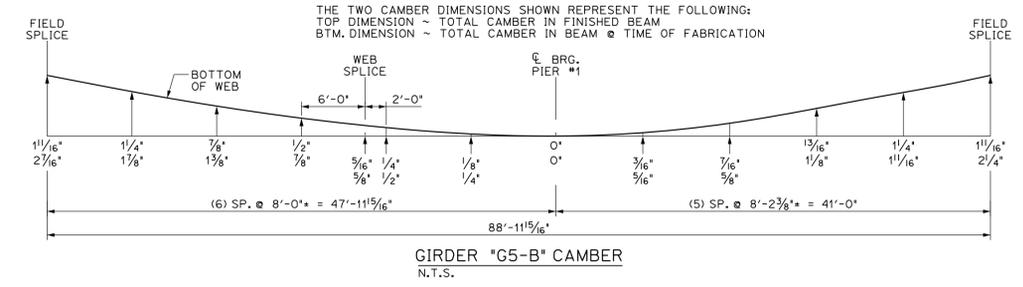
ARC ENTERPRISES, INC.

ADVANCED RESOURCES & CONST. ENTERPRISES, INCORPORATED
 P.O. BOX 120 KINGFIELD, ME. 04947
 PHONE: (207) 265-2646 - FAX: (207) 265-4054

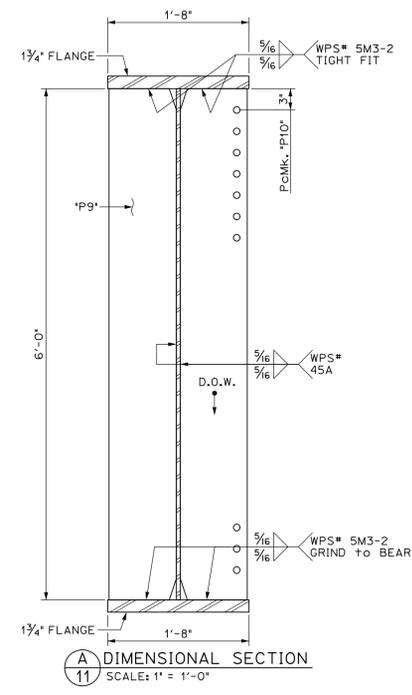
DRAFTER	JJH	GIRDER 'G3-B'	PROJECT NO.	14-148
DATE	NOV. 2014	WATERBURY VT. BRIDGE 46A	DWG. NO.	9
CHECKED	DLM	L-89 EXIT RAMP over STOWE ST. & THATCHER BROOK		
DATE	NOV. 2014	BECK & BELLUCCI		



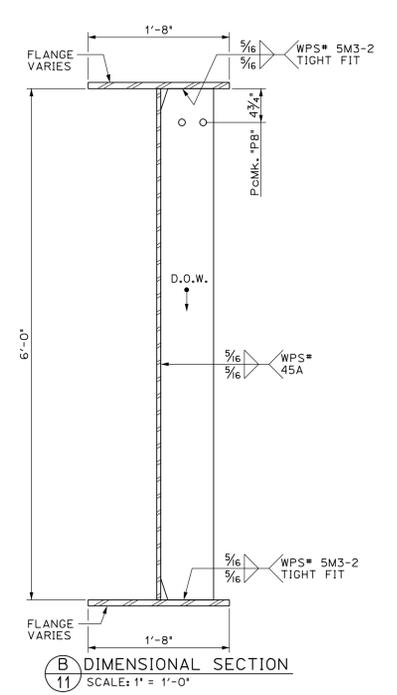
11 DIMENSIONAL PLANS & ELEVATIONS ~ GIRDER "G5-B"
SCALE: 3/8" = 1'-0"



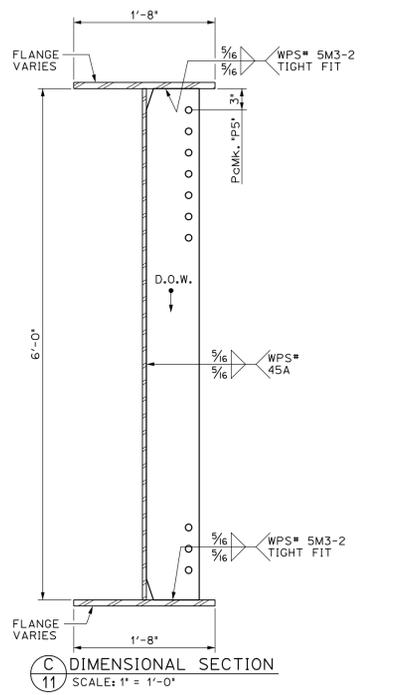
BILL OF MATERIALS							
SHIP	SHIP MARK	NO. PCS.	PIECE MARK	DESCRIPTION	LENGTH	WEIGHT	MATERIAL
1	G5-B			BRIDGE GIRDER ASSEMBLY	88'-11 5/16"	31,000*	
		1	WP34	ℓ 3/16" x 72'	29'-11 5/16"	4150*	CVN
		1	WP35	ℓ 3/16" x 72'	59'-0"	8150*	CVN
		1	TF42	ℓ 1/8" x 20"	22'-1"	1725*	CVN
		1	TF43	ℓ 1 3/4" x 20"	45'-0"	5400*	CVN
		1	TF44	ℓ 1 1/8" x 20"	21'-10 1/4"	1725*	CVN
		1	BF42	ℓ 1/8" x 20"	22'-0"	1725*	CVN
		1	BF43	ℓ 1 3/4" x 20"	45'-0"	5400*	CVN
		1	BF44	ℓ 1/8" x 20"	21'-11 5/16"	1725*	CVN
		2	P5	SEE SHEET M2			
		4	P8	SEE SHEET M2			
		1	P9	SEE SHEET M2			
		1	P10	SEE SHEET M2			



11 A DIMENSIONAL SECTION
SCALE: 1" = 1'-0"



11 B DIMENSIONAL SECTION
SCALE: 1" = 1'-0"



11 C DIMENSIONAL SECTION
SCALE: 1" = 1'-0"

SHOP DRAWINGS ARE REVIEWED UNLESS NOTED OTHERWISE

NO EXCEPTION NEEDED	
REVISIONS NOTED	
RESUBMISSION NOT REQUIRED	
REVISIONS NOTED	
RESUBMISSION REQUIRED	
REWORKED	

DATE: 1/15/15
SIGNATURE: [Signature]

REVIEW BY GUARANTEED IS FOR THE SOLE PURPOSE OF ASCERTAINING GENERAL CONFORMITY WITH DESIGN. CONTRACTOR IS RESPONSIBLE FOR DIMENSIONS, FABRICATION AND CONSTRUCTION METHODS. COORDINATION OF SUB-TRADERS DETAIL DESIGN OF COMPONENTS AND ERRORS OR OMISSIONS ON SHOP DRAWINGS.

PROJECT No. JM 089-2(43)
ITEM No. 506.55

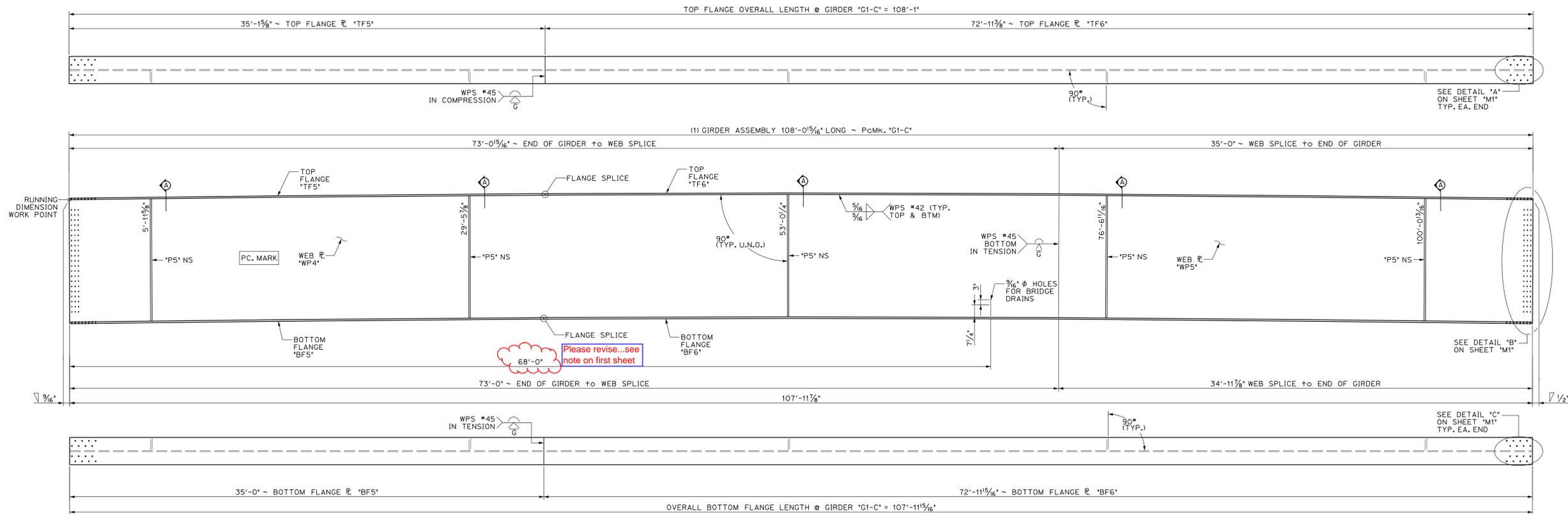
FINISH	SSPC SP6
MATERIAL	AASHTO M270 (ASTM A709) GRADE 50W
HOLES	15/16" Ø U.N.O.
ELECTRODES	PER WELD PROCEDURE
WELDS	PER WELD PROCEDURE
SURFACE PREP	SSPC SP6

NO.	DATE	DESCRIPTION	BY
REVISIONS			

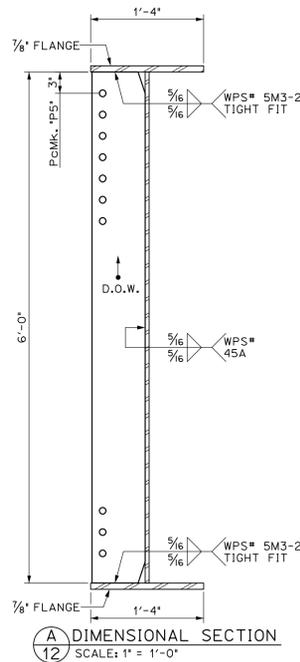
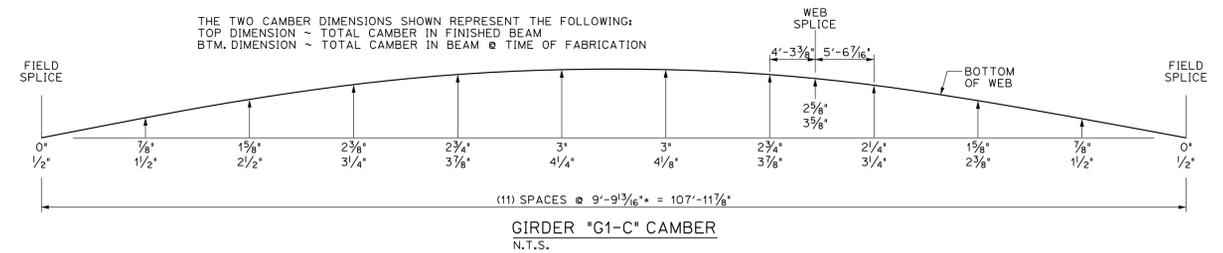
ARC ENTERPRISES, INC.

ADVANCED RESOURCES & CONST. ENTERPRISES, INCORPORATED
P.O. BOX 120 KINGFIELD, ME, 04947
PHONE: (207) 265-2646 - FAX: (207) 265-4054

DRAFTER	JJH	GIRDER "G5-B"	PROJECT NO.
DATE	NOV. 2014	WATERBURY VT. BRIDGE 46A	14-148
CHECKED	DLM	L-89 EXIT RAMP over STOWE ST. & THATCHER BROOK	DWG. NO.
DATE	NOV. 2014	BECK & BELLUCCI	11



1 DIMENSIONAL PLANS & ELEVATIONS ~ GIRDER "G1-C"
 12 HORIZONTAL SCALE: 1/4" = 1'-0"
 VERTICAL SCALE EXAGGERATED 1.5:1



A DIMENSIONAL SECTION
 12 SCALE: 1" = 1'-0"

SHOP DRAWINGS ARE REVIEWED UNLESS NOTED OTHERWISE

NO. ENGINEER / ARCH	
REVIEW AS NOTED	RESUBMISSION NOT REQUIRED
REVIEW AS NOTED	RESUBMISSION REQUIRED
REWORKED	
DATE	1/15/15
SIGNATURE	<i>[Signature]</i>

REVIEW BY STANTEC IS FOR THE SOLE PURPOSE OF ASCERTAINING GENERAL CONFORMANCE WITH DESIGN. CONTRACTOR IS RESPONSIBLE FOR DIMENSIONS, INSPECTION AND CONSTRUCTION METHODS, CORROSION/PROTECTION OF SUBSTRATES, DETAIL DESIGN OF COMPONENTS, AND ERRORS OR OMISSIONS ON SHOP DRAWINGS.

BILL OF MATERIALS							
SHIP	SHIP MARK	NO. PCS.	PIECE MARK	DESCRIPTION	LENGTH	WEIGHT	MATERIAL
1	G1-C			BRIDGE GIRDER ASSEMBLY	108'-0 1/8"	25,750*	
		1	WP4	R 3/8" x 72'	73'-1'	10,100*	CVN
		1	WPS	R 3/8" x 72'	35'-0"	4850*	CVN
		1	TF5	R 7/8" x 16'	35'-1 5/8"	1700*	CVN
		1	TF6	R 7/8" x 16'	72'-11 3/8"	3500*	CVN
		1	BF5	R 7/8" x 16'	35'-0"	1700*	CVN
		1	BF6	R 7/8" x 16'	72'-11 5/8"	3500*	CVN
		5	P5	SEE SHEET M2			

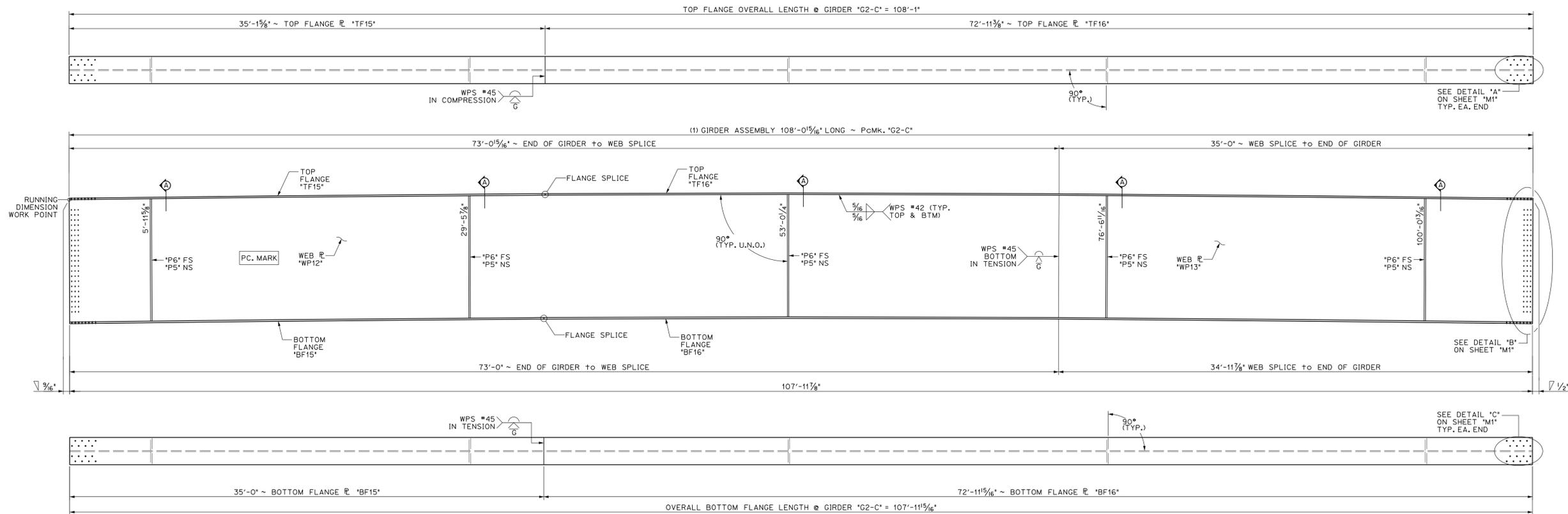
PROJECT No. IM 089-2(43)
 ITEM No. 506.55

FINISH	SSPC SP6			
MATERIAL	AASHTO M270 (ASTM A709) GRADE 50W			
HOLES	15/16" Ø U.N.O.			
ELECTRODES	PER WELD PROCEDURE			
WELDS	PER WELD PROCEDURE			
SURFACE PREP	SSPC SP6			

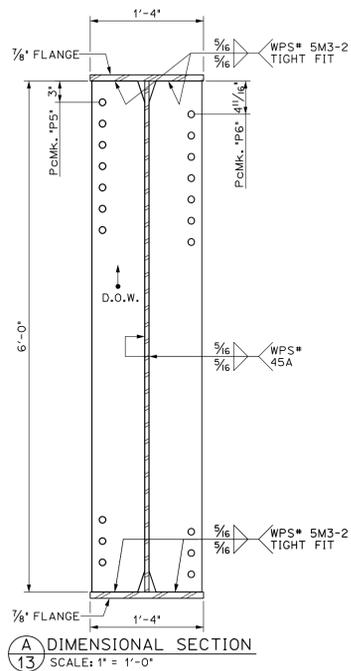
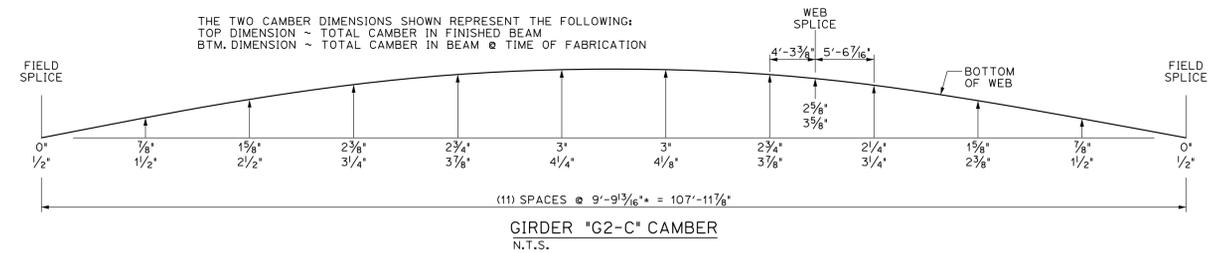


ADVANCED RESOURCES & CONST.
 ENTERPRISES, INCORPORATED
 P.O. BOX 120 KINGFIELD, ME, 04947
 PHONE: (207) 265-2646 - FAX: (207) 265-4054

DRAFTER	JJH	GIRDER "G1-C"	PROJECT NO.	14-148
DATE	NOV. 2014	WATERBURY, VT. BRIDGE 46A	DWG. NO.	12
CHECKED	DLM	L-89 EXIT RAMP over STOWE ST. & THATCHER BROOK		
DATE	NOV. 2014	BECK & BELLUCCI		



13 DIMENSIONAL PLANS & ELEVATIONS ~ GIRDER "G2-C"
 HORIZONTAL SCALE: 1/4" = 1'-0"
 VERTICAL SCALE EXAGGERATED 1.5:1



A DIMENSIONAL SECTION
 SCALE: 1" = 1'-0"

SHIP DRAWINGS ARE REVIEWED UNLESS NOTED OTHERWISE
 NO EXCEPTION TAKEN
 REVIEW AS NOTED
 SUBMISSION NOT REQUIRED
 REVIEW AS NOTED
 SUBMISSION REQUIRED
 REVIEWED
 DATE: 1/15/15
 SIGNATURE: [Signature]
 REVIEW BY: [Signature] FOR THE SOLE PURPOSE OF ASCERTAINING GENERAL CONFORMITY WITH DESIGN. CONTRACTOR IS RESPONSIBLE FOR DIMENSIONS, FABRICATION AND CONSTRUCTION METHODS. COORDINATION OF SUB-FRAMES, DETAIL DESIGN OF COMPONENTS, AND ERRORS OR OMISSIONS ON SHIP DRAWINGS.

BILL OF MATERIALS							
SHIP	SHIP MARK	NO. PCS.	PIECE MARK	DESCRIPTION	LENGTH	WEIGHT	MATERIAL
1	G2-C			BRIDGE GIRDER ASSEMBLY	108'-0 1/16"	26,150*	
		1	WP12	R 3/8" x 72'	73'-1'	10,100*	CVN
		1	WP13	R 3/8" x 72'	35'-0"	4850*	CVN
		1	TF15	R 7/8" x 16'	35'-1 1/8"	1700*	CVN
		1	TF16	R 7/8" x 16'	72'-11 3/8"	3500*	CVN
		1	BF15	R 7/8" x 16'	35'-0"	1700*	CVN
		1	BF16	R 7/8" x 16'	72'-11 1/8"	3500*	CVN
		5	P5	SEE SHEET M2			
		5	P6	SEE SHEET M2			

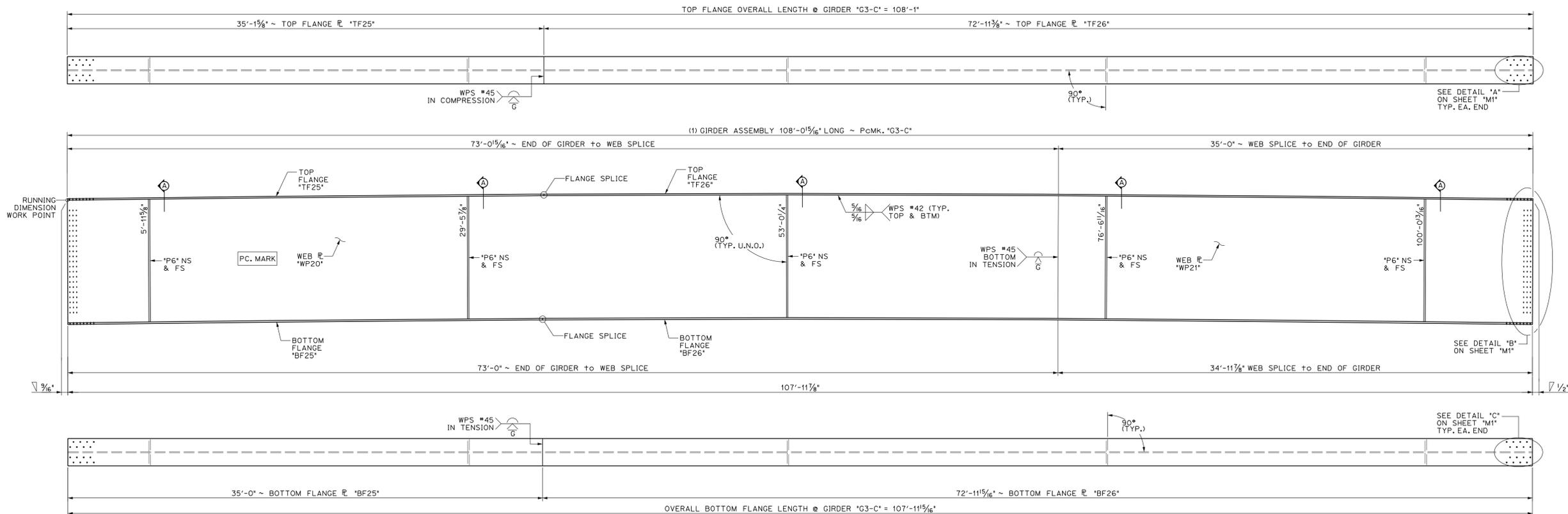
PROJECT No. IM 089-2(43)
 ITEM No. 506.55

FINISH	SSPC SP6		
MATERIAL	AASHTO M270 (ASTM A709) GRADE 50W		
HOLES	15/16" Ø U.N.D.		
ELECTRODES	PER WELD PROCEDURE		
WELDS	PER WELD PROCEDURE		
SURFACE PREP	SSPC SP6		

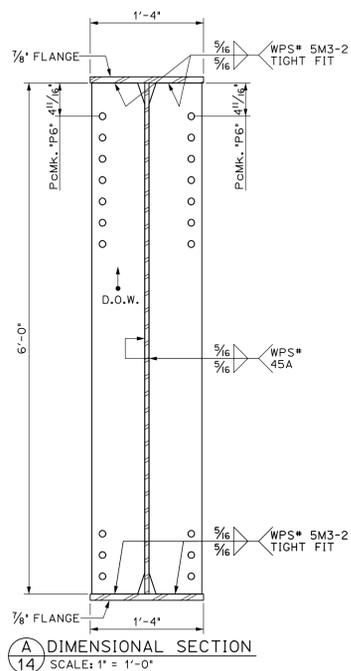
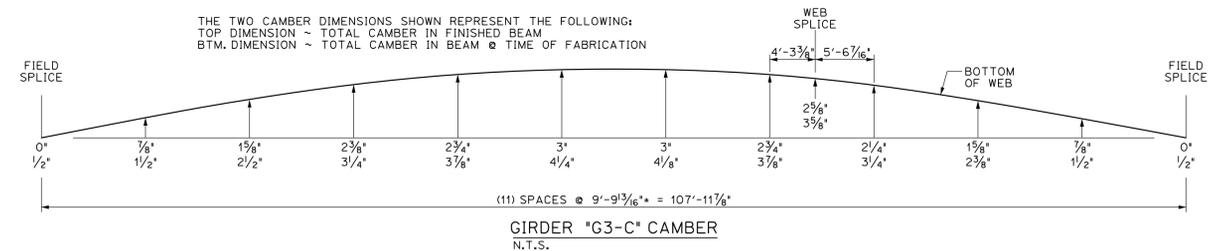


ADVANCED RESOURCES & CONST. ENTERPRISES, INCORPORATED
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DRAFTER	JJH	GIRDER "G2-C"	PROJECT NO.
DATE	NOV. 2014	WATERBURY, VT. BRIDGE 46A	14-148
CHECKED	DLM	L-89 EXIT RAMP over STOWE ST. & THATCHER BROOK	DWG. NO.
DATE	NOV. 2014	BECK & BELLUCCI	13



14 DIMENSIONAL PLANS & ELEVATIONS ~ GIRDER "G3-C"
 HORIZONTAL SCALE: 1/4" = 1'-0"
 VERTICAL SCALE EXAGGERATED 1.5:1



A DIMENSIONAL SECTION
 SCALE: 1" = 1'-0"

SHOP DRAWINGS ARE REVIEWED UNLESS NOTED OTHERWISE
 NO EXCEPTION TAKEN
 REVISIONS AS NOTED
 RESUBMISSION NOT REQUIRED
 REVISIONS NOTED
 RESUBMISSION REQUIRED
 REVISIONS AS NOTED
 RESUBMISSION NOT REQUIRED
 DATE: 1/15/15
 SIGNATURE: [Signature]
 REVIEW BY STANTEC IS FOR THE SOLE PURPOSE OF ASCERTAINING GENERAL CONFORMITY WITH DESIGN. CONTRACTOR IS RESPONSIBLE FOR DIMENSIONS, FABRICATION AND CONSTRUCTION METHODS. COORDINATION OF SUB-TENDERS, DETAIL DESIGN OF COMPONENTS AND ERRORS OR OMISSIONS ON SHOP DRAWINGS.

BILL OF MATERIALS							
SHIP MARK	SHIP MARK	NO. PCS.	PIECE MARK	DESCRIPTION	LENGTH	WEIGHT	MATERIAL
1	G3-C			BRIDGE GIRDER ASSEMBLY	108'-0 1/8"	26,150*	
		1	WP20	R 3/8" x 72'	73'-1"	10,100*	CVN
		1	WP21	R 3/8" x 72'	35'-0"	4850*	CVN
		1	TF25	R 7/8" x 16'	35'-1 1/8"	1700*	CVN
		1	TF26	R 7/8" x 16'	72'-11 3/8"	3500*	CVN
		1	BF25	R 7/8" x 16'	35'-0"	1700*	CVN
		1	BF26	R 7/8" x 16'	72'-11 1/8"	3500*	CVN
		10	P6	SEE SHEET M2			

PROJECT No. IM 089-2(43)
 ITEM No. 506.55

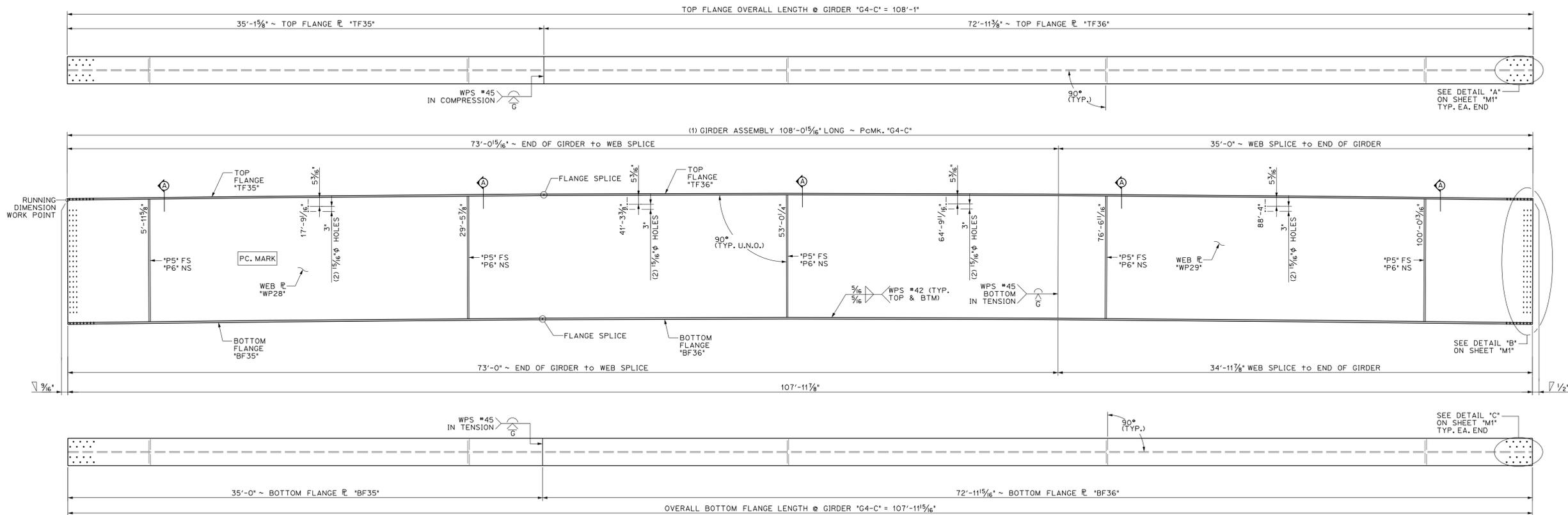
FINISH	SSPC SP6			
MATERIAL	AASHTO M270 (ASTM A709) GRADE 50W			
HOLES	15/16" Ø U.N.O.			
ELECTRODES	PER WELD PROCEDURE			
WELDS	PER WELD PROCEDURE			
SURFACE PREP	SSPC SP6			
	NO	DATE	DESCRIPTION	BY

REVISIONS

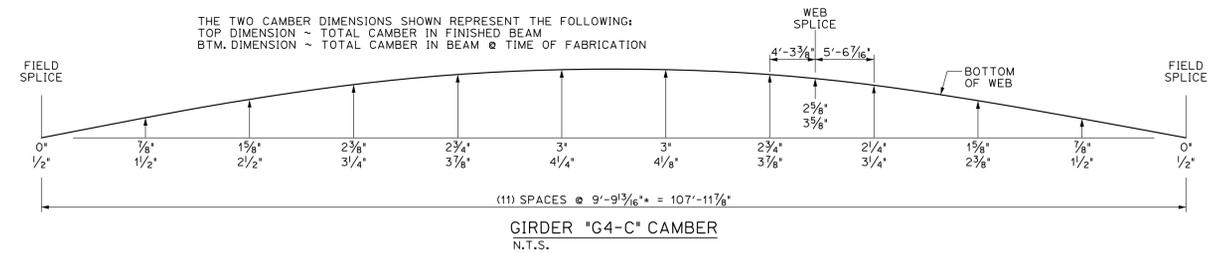


ADVANCED RESOURCES & CONST.
 ENTERPRISES, INCORPORATED
 P.O. BOX 120 KINGFIELD, ME, 04947
 PHONE: (207) 265-2646 - FAX: (207) 265-4054

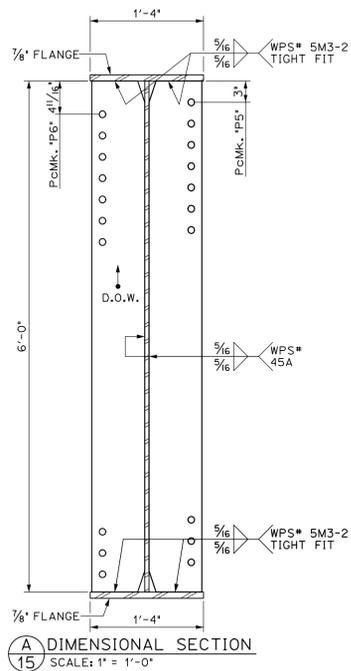
DRAFTER	JJH	GIRDER "G3-C"	PROJECT NO.
DATE	NOV. 2014	WATERBURY VT. BRIDGE 46A	14-148
CHECKED	DLM	L-89 EXIT RAMP over STOWE ST. & THATCHER BROOK	DWG. NO.
DATE	NOV. 2014	BECK & BELLUCCI	14



15 DIMENSIONAL PLANS & ELEVATIONS ~ GIRDER "G4-C"
 HORIZONTAL SCALE: 1/4" = 1'-0"
 VERTICAL SCALE EXAGGERATED 1.5:1



BILL OF MATERIALS							
SHIP MARK	SHIP MARK	NO. PCS.	PIECE MARK	DESCRIPTION	LENGTH	WEIGHT	MATERIAL
1	G4-C			BRIDGE GIRDER ASSEMBLY	108'-0 1/8"	26,150#	
		1	WP28	R 3/8" x 72'	73'-1'	10,100#	CVN
		1	WP29	R 3/8" x 72'	35'-0"	4850#	CVN
		1	TF35	R 7/8" x 16'	35'-1 1/8"	1700#	CVN
		1	TF36	R 7/8" x 16'	72'-11 3/8"	3500#	CVN
		1	BF35	R 7/8" x 16'	35'-0"	1700#	CVN
		1	BF36	R 7/8" x 16'	72'-11 1/8"	3500#	CVN
		5	P5	SEE SHEET M2			
		5	P6	SEE SHEET M2			



15 DIMENSIONAL SECTION
 SCALE: 1" = 1'-0"

NO EXCEPTIO...
 REVIEW AS NOTED...
 PRESUBMITTED...
 REVIEW AS NOTED...
 PRESUBMITTED...
 DATE: 1/15/15
 SIGNATURE: [Signature]
 REVIEW BY STANTEC IS FOR THE SOLE PURPOSE OF ASCERTAINING GENERAL CONFORMITY WITH DESIGN. CONTRACTOR IS RESPONSIBLE FOR DIMENSIONS, FABRICATION AND CONSTRUCTION METHODS. COORDINATION OF SUB-FRAMES, DETAIL DESIGN OF COMPONENTS, AND ERRORS OR OMISSIONS ON SHOP DRAWINGS.

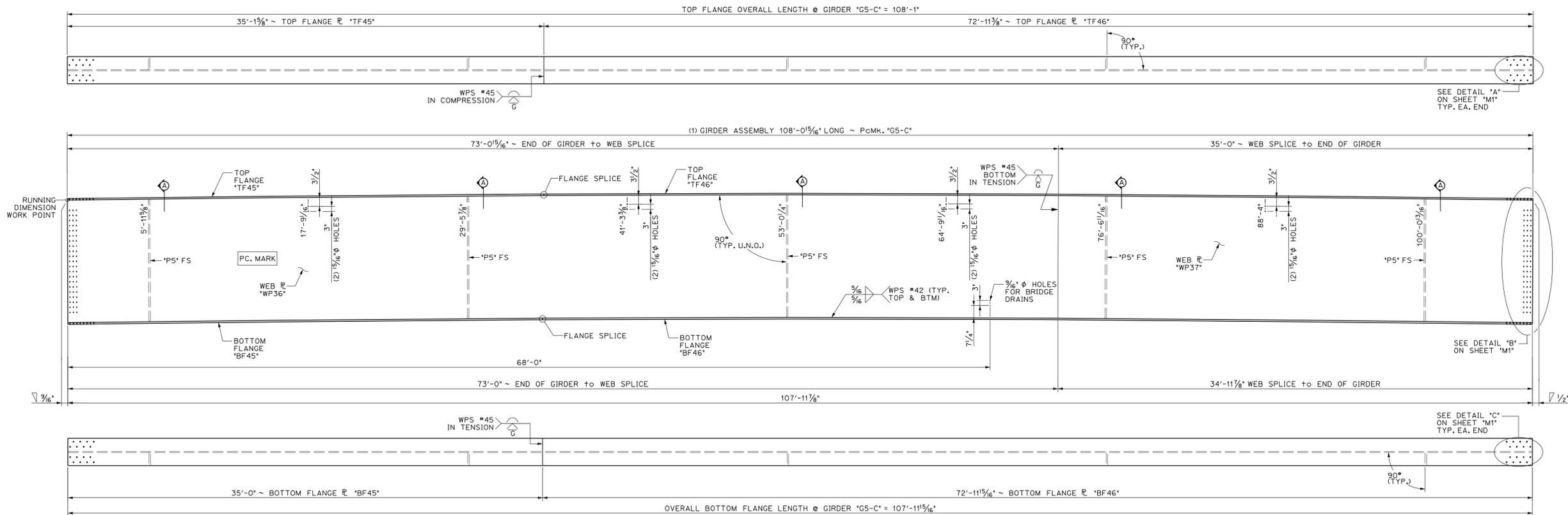
PROJECT No. IM 089-2(43)
 ITEM No. 506.55

FINISH	SSPC SP6			
MATERIAL	AASHTO M270 (ASTM A709) GRADE 50W			
HOLES	15/16" Ø U.N.O.			
ELECTRODES	PER WELD PROCEDURE			
WELDS	PER WELD PROCEDURE			
SURFACE PREP	SSPC SP6			

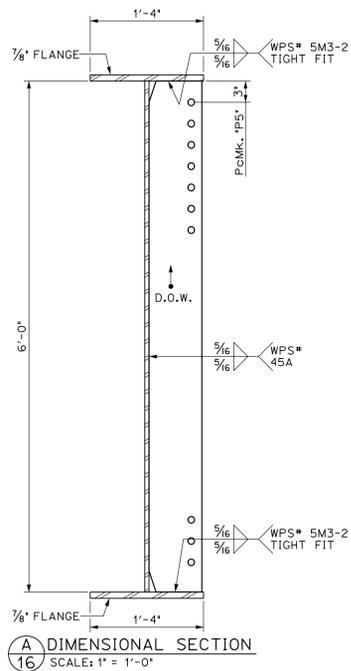
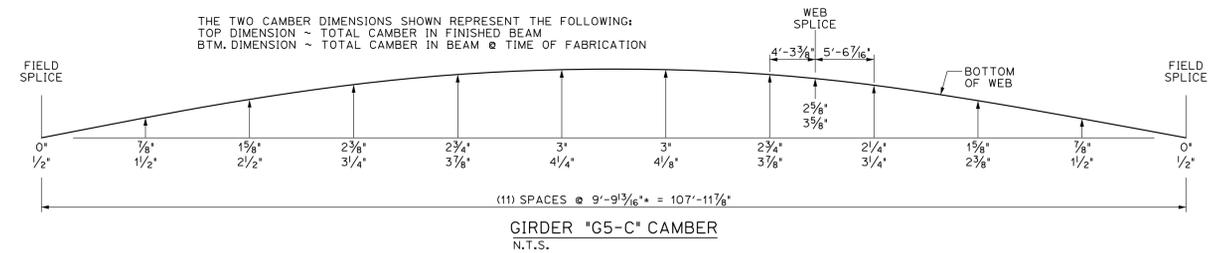
NO.	DATE	DESCRIPTION	BY
REVISIONS			

ARC ENTERPRISES, INC.
 ADVANCED RESOURCES & CONST. ENTERPRISES, INCORPORATED
 P.O. BOX 120 KINGFIELD, ME, 04947
 PHONE: (207) 265-2646 - FAX: (207) 265-4054

DRAFTER	JJH	GIRDER "G4-C"	PROJECT NO.	14-148
DATE	NOV. 2014	WATERBURY, VT. BRIDGE 46A	DWG. NO.	15
CHECKED	DLM	L-89 EXIT RAMP over STOWE ST. & THATCHER BROOK		
DATE	NOV. 2014	BECK & BELLUCCI		



16 DIMENSIONAL PLANS & ELEVATIONS ~ GIRDER "G5-C"
 HORIZONTAL SCALE: 1/4" = 1'-0"
 VERTICAL SCALE EXAGGERATED 1.5:1



A DIMENSIONAL SECTION
 SCALE: 1" = 1'-0"

BILL OF MATERIALS							
SHIP MARK	SHIP MARK	NO. PCS.	PIECE MARK	DESCRIPTION	LENGTH	WEIGHT	MATERIAL
1	G5-C			BRIDGE GIRDER ASSEMBLY	108'-0 1/16"	25,750*	
		1	WP36	R 3/16" x 72'	73'-1'	10,100*	CVN
		1	WP37	R 3/16" x 72'	35'-0"	4850*	CVN
		1	TF45	R 7/8" x 16'	35'-1 1/8"	1700*	CVN
		1	TF46	R 7/8" x 16'	72'-11 3/8"	3500*	CVN
		1	BF45	R 7/8" x 16'	35'-0"	1700*	CVN
		1	BF46	R 7/8" x 16'	72'-11 1/8"	3500*	CVN
		5	P5	SEE SHEET M2			



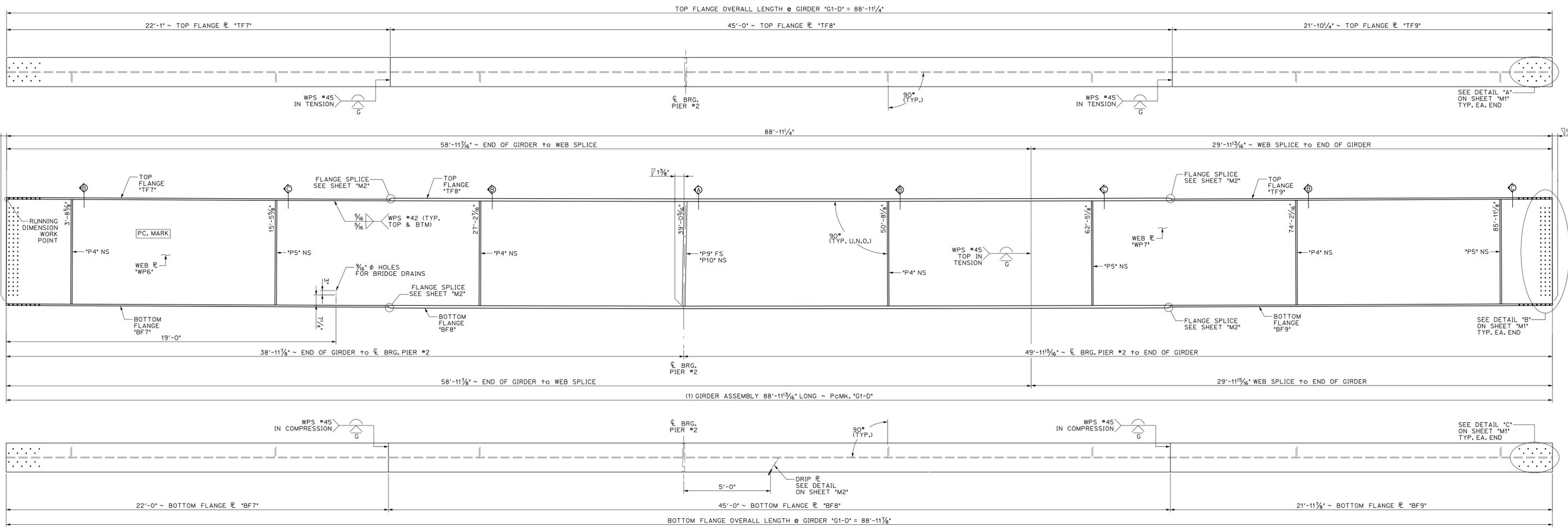
PROJECT No. IM 089-2(43)
 ITEM No. 506.55

NO	DATE	DESCRIPTION	BY
REVISIONS			

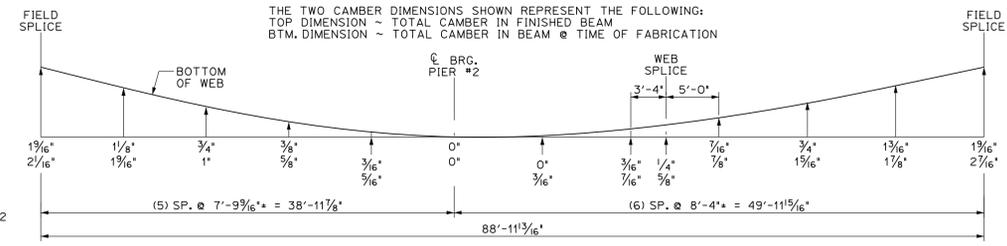


ADVANCED RESOURCES & CONST.
 ENTERPRISES, INCORPORATED
 P.O. BOX 120 KINGFIELD, ME, 04947
 PHONE: (207) 265-2646 - FAX: (207) 265-4054

DRAFTER	JJH	GIRDER "G5-C"	PROJECT NO.	14-148
DATE	NOV. 2014	WATERBURY, VT. BRIDGE 46A	DWG. NO.	16
CHECKED	DLM	L-89 EXIT RAMP over STOWE ST. & THATCHER BROOK		
DATE	NOV. 2014	BECK & BELLUCCI		

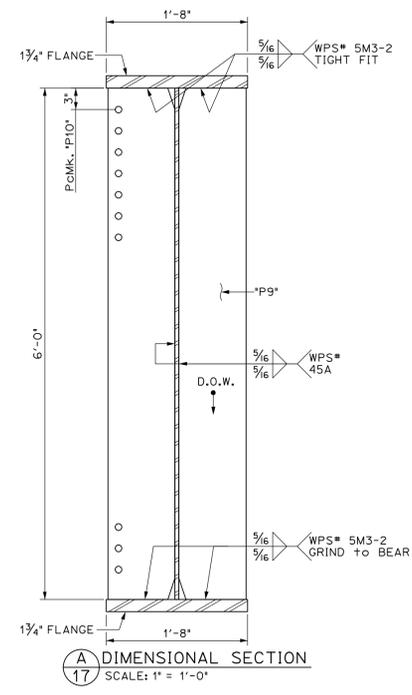


17 DIMENSIONAL PLANS & ELEVATIONS ~ GIRDER 'G1-D'
SCALE: 3/8" = 1'-0"

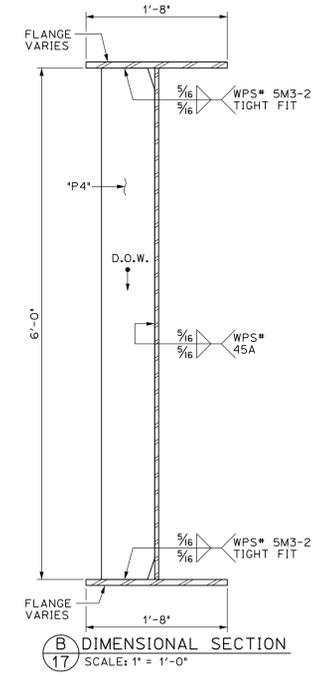


GIRDER "G1-D" CAMBER
N.T.S.

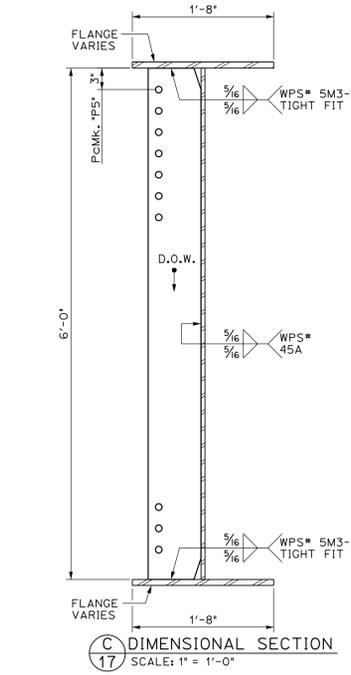
BILL OF MATERIALS							
SHIP MARK	SHIP MARK	NO. PCS.	PIECE MARK	DESCRIPTION	LENGTH	WEIGHT	MATERIAL
1	G1-D			BRIDGE GIRDER ASSEMBLY	88'-11 3/4"	31,100#	
		1	WP6	PL 3/8" x 72'	59'-0"	4150#	CVN
		1	WP7	PL 3/8" x 72'	29'-11 1/2"	8150#	CVN
		1	TF7	PL 1/8" x 20'	22'-1"	1725#	CVN
		1	TF8	PL 1 3/4" x 20'	45'-0"	5400#	CVN
		1	TF9	PL 1 1/8" x 20'	21'-10 1/4"	1725#	CVN
		1	BF7	PL 1/8" x 20'	22'-0"	1725#	CVN
		1	BF8	PL 1 3/4" x 20'	45'-0"	5400#	CVN
		1	BF9	PL 1/8" x 20'	21'-11 1/8"	1725#	CVN
		4	P4	SEE SHEET M2			
		3	P5	SEE SHEET M2			
		1	P9	SEE SHEET M2			
		1	P10	SEE SHEET M2			



A DIMENSIONAL SECTION
SCALE: 1" = 1'-0"



B DIMENSIONAL SECTION
SCALE: 1" = 1'-0"



C DIMENSIONAL SECTION
SCALE: 1" = 1'-0"

SHIP DRAWINGS ARE REVIEWED UNLESS NOTED OTHERWISE
NO EXCEPTION TAKEN
REVIEW AS NOTED
REVISIONS NOT REQUIRED
REVISIONS NOTED
REVISIONS REQUIRED
REVISIONS REQUIRED
DATE: 1/15/15
SIGNATURE: [Signature]

PROJECT No. IM 089-2(43)
ITEM No. 506.55

FINISH	SSPC SP6			
MATERIAL	AASHTO M270 (ASTM A709) GRADE 50W			
HOLES	15/16" Ø U.N.D.			
ELECTRODES	PER WELD PROCEDURE			
WELDS	PER WELD PROCEDURE			
SURFACE PREP	SSPC SP6			

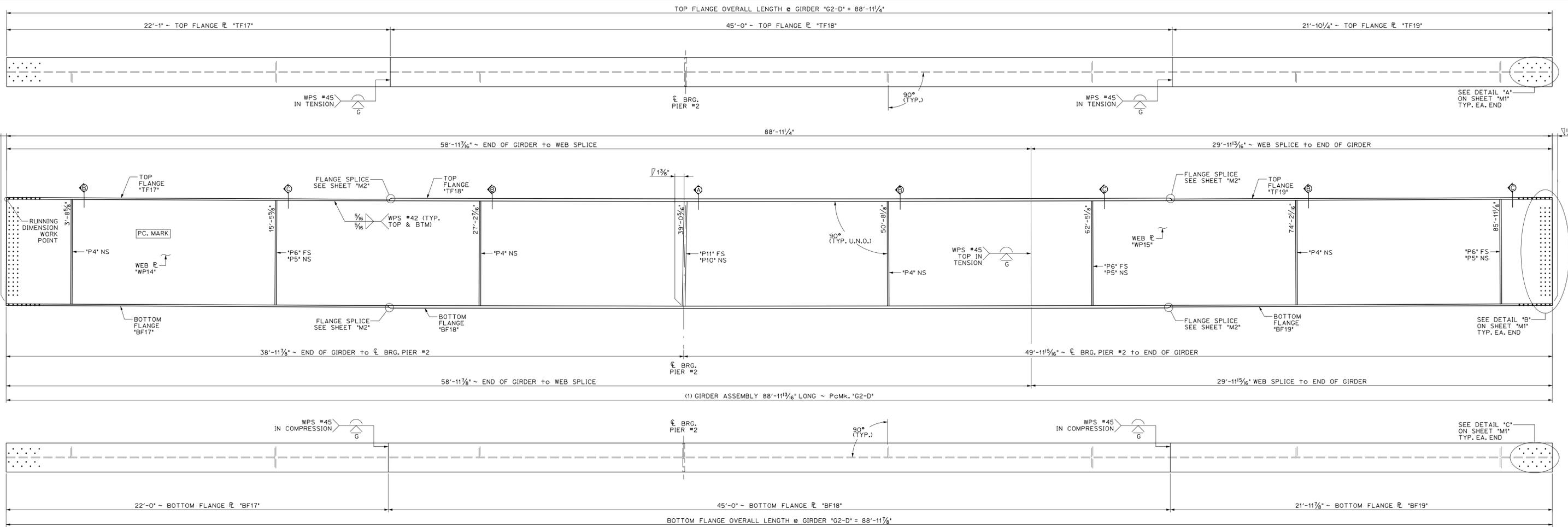
NO DATE DESCRIPTION BY

REVISIONS

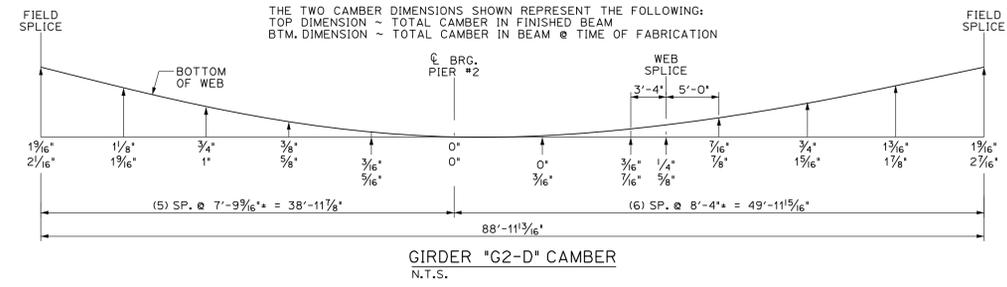
ARC ENTERPRISES, INC.

ADVANCED RESOURCES & CONST. ENTERPRISES, INCORPORATED
P.O. BOX 120 KINGFIELD, ME, 04947
PHONE: (207) 265-2646 - FAX: (207) 265-4054

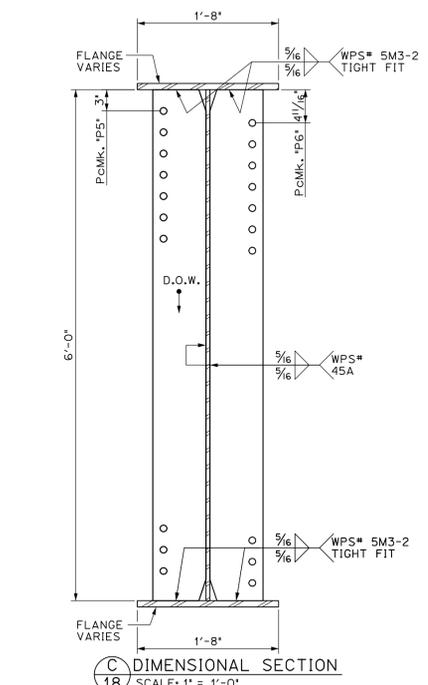
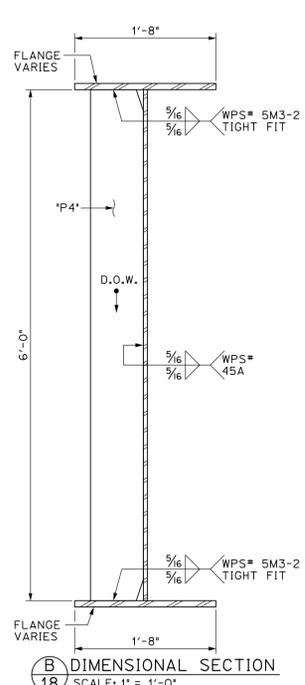
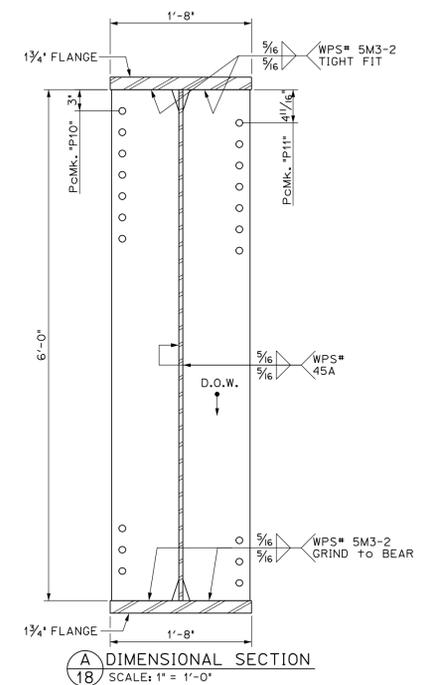
DRAFTER	JJH	GIRDER "G1-D"	PROJECT NO.	14-148
DATE	NOV. 2014	WATERBURY, VT. BRIDGE 46A	DWG. NO.	17
CHECKED	DLM	L-89 EXIT RAMP over STOWE ST. & THATCHER BROOK		
DATE	NOV. 2014	BECK & BELLUCCI		



1 DIMENSIONAL PLANS & ELEVATIONS ~ GIRDER "G2-D"
 18 SCALE: 3/8" = 1'-0"



BILL OF MATERIALS							
SHIP MARK	SHIP MARK	NO. PCS.	PIECE MARK	DESCRIPTION	LENGTH	WEIGHT	MATERIAL
1	G2-D			BRIDGE GIRDER ASSEMBLY	88'-11 3/16"	31,300#	
		1	WP14	ℓ 3/8" x 72'	59'-0"	4150#	CVN
		1	WP15	ℓ 3/8" x 72'	29'-11 1/2"	8150#	CVN
		1	TF17	ℓ 1/8" x 20'	22'-1"	1725#	CVN
		1	TF18	ℓ 1 3/4" x 20'	45'-0"	5400#	CVN
		1	TF19	ℓ 1 1/8" x 20'	21'-10 1/4"	1725#	CVN
		1	BF17	ℓ 1/8" x 20'	22'-0"	1725#	CVN
		1	BF18	ℓ 1 3/4" x 20'	45'-0"	5400#	CVN
		1	BF19	ℓ 1/8" x 20'	21'-11 1/8"	1725#	CVN
		4	P4	SEE SHEET M2			
		3	P5	SEE SHEET M2			
		3	P6	SEE SHEET M2			
		1	P10	SEE SHEET M2			
		1	P11	SEE SHEET M2			



SHOP DRAWINGS ARE REVIEWED UNLESS NOTED OTHERWISE
 NO EXCEPTION HAZAR
 REVIEW AS NOTED
 RESUBMISSION NOT REQUIRED
 REVIEW AS NOTED
 RESUBMISSION REQUIRED
 RESEARCHED
 DATE 1/15/15
 SIGNATURE [Signature]

PROJECT No. JM 089-2(43)
 ITEM No. 506.55

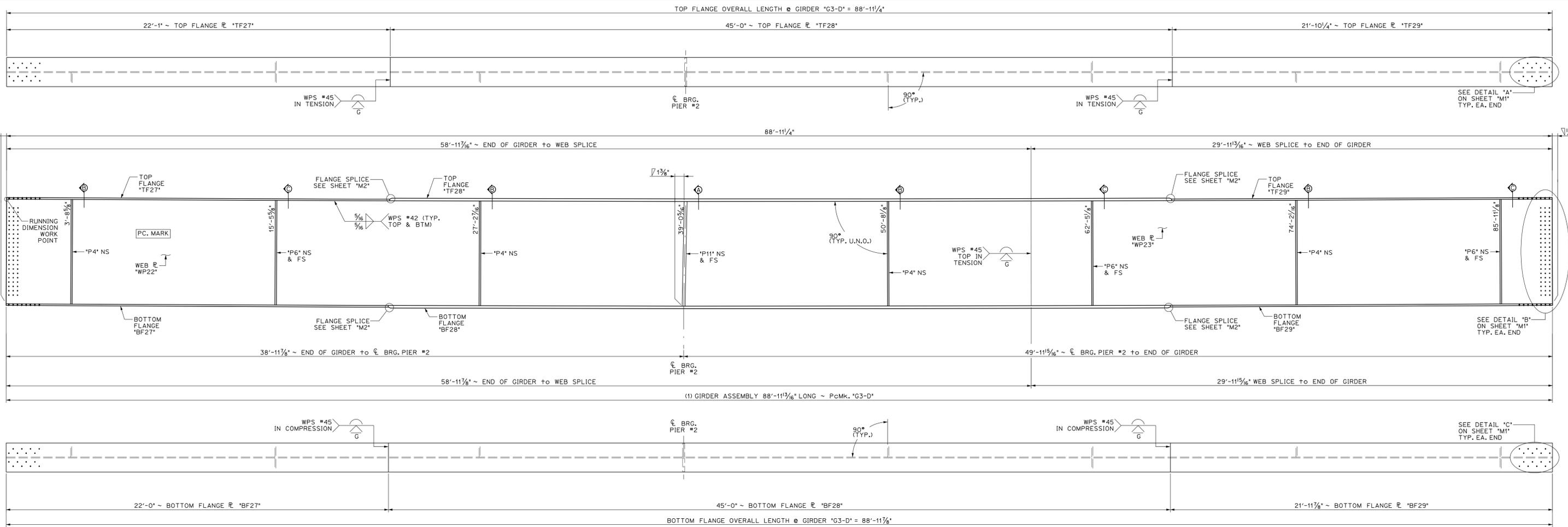
FINISH	SSPC SP6		
MATERIAL	AASHTO M270 (ASTM A709) GRADE 50W		
HOLES	15/16" Ø U.N.D.		
ELECTRODES	PER WELD PROCEDURE		
WELDS	PER WELD PROCEDURE		
SURFACE PREP	SSPC SP6		

REVISIONS

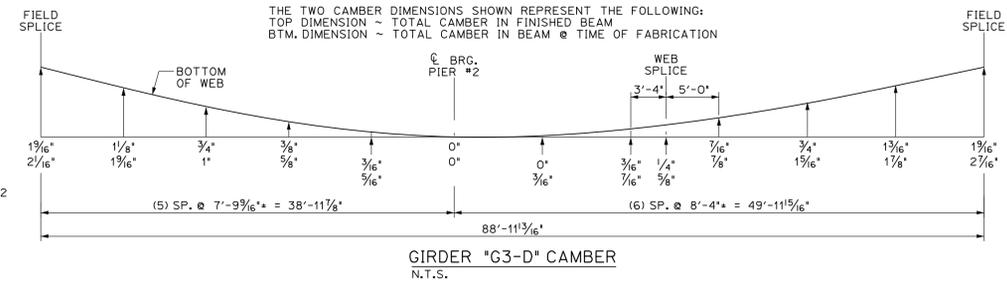
NO	DATE	DESCRIPTION	BY

ARC ENTERPRISES, INC.
 ADVANCED RESOURCES & CONST. ENTERPRISES, INCORPORATED
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 PHONE: (207) 265-2646 - FAX: (207) 265-4054

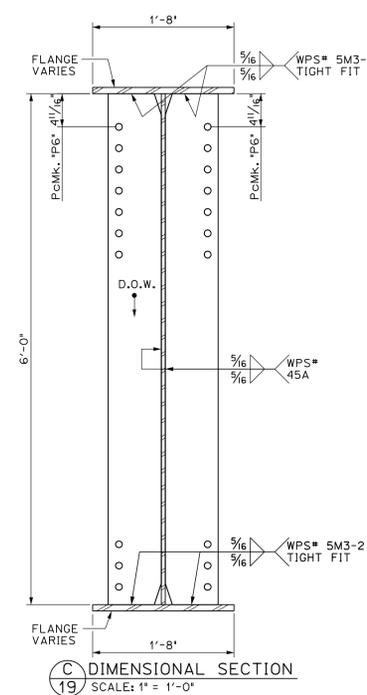
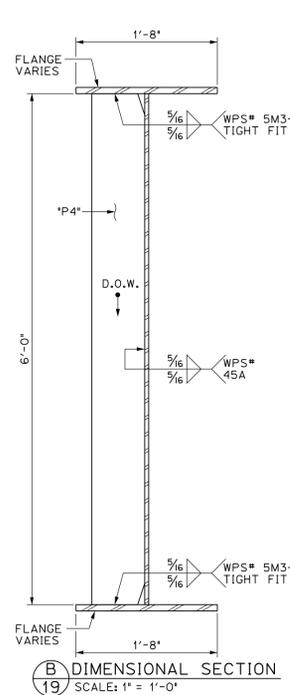
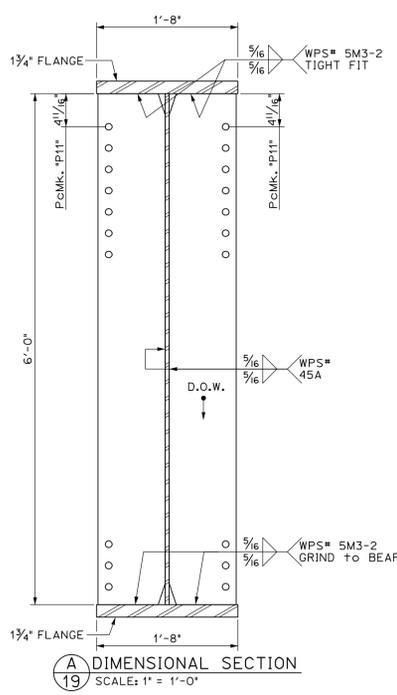
DRAFTER	JJH	GIRDER "G2-D"	PROJECT NO.
DATE	NOV. 2014	WATERBURY, VT. BRIDGE 46A	14-148
CHECKED	DLM	L-89 EXIT RAMP over STOWE ST. & THATCHER BROOK	DWG. NO.
DATE	NOV. 2014	BECK & BELLUCCI	18



1 DIMENSIONAL PLANS & ELEVATIONS ~ GIRDER "G3-D"
 19 SCALE: 3/8" = 1'-0"



BILL OF MATERIALS							
SHIP MARK	SHIP MARK	NO. PCS.	PIECE MARK	DESCRIPTION	LENGTH	WEIGHT	MATERIAL
1	G3-D			BRIDGE GIRDER ASSEMBLY	88'-11 3/16"	31,306#	
		1	WP22	ℓ 3/8" x 72'	59'-0"	4150#	CVN
		1	WP23	ℓ 3/8" x 72'	29'-11 1/2"	8150#	CVN
		1	TF27	ℓ 1/8" x 20'	22'-1"	1725#	CVN
		1	TF28	ℓ 1/8" x 20'	45'-0"	5400#	CVN
		1	TF29	ℓ 1/8" x 20'	21'-10 1/4"	1725#	CVN
		1	BF27	ℓ 1/8" x 20'	22'-0"	1725#	CVN
		1	BF28	ℓ 1/8" x 20'	45'-0"	5400#	CVN
		1	BF29	ℓ 1/8" x 20'	21'-11 1/8"	1725#	CVN
		4	P4	SEE SHEET M2			
		6	P6	SEE SHEET M2			
		2	P11	SEE SHEET M2			



SHOP DRAWINGS ARE REVIEWED UNLESS NOTED OTHERWISE
 NO EXCEPTION NASH
 REVIEW AS NOTED RESUBMISSION NOT REQUIRED
 REVIEW AS NOTED RESUBMISSION REQUIRED
 RECORDED
 DATE 1/15/15
 SIGNATURE [Signature]
 REVIEW BY STANTEC IS FOR THE SOLE PURPOSE OF ASCERTAINING GENERAL CONFORMANCE WITH DESIGN. CONTRACTOR IS RESPONSIBLE FOR DIMENSIONS, FABRICATION AND CONSTRUCTION METHODS, COORDINATION OF SUBTRACTS, DETAIL DESIGN OF COMPONENTS, AND ERRORS OR OMISSIONS ON SHOP DRAWINGS.

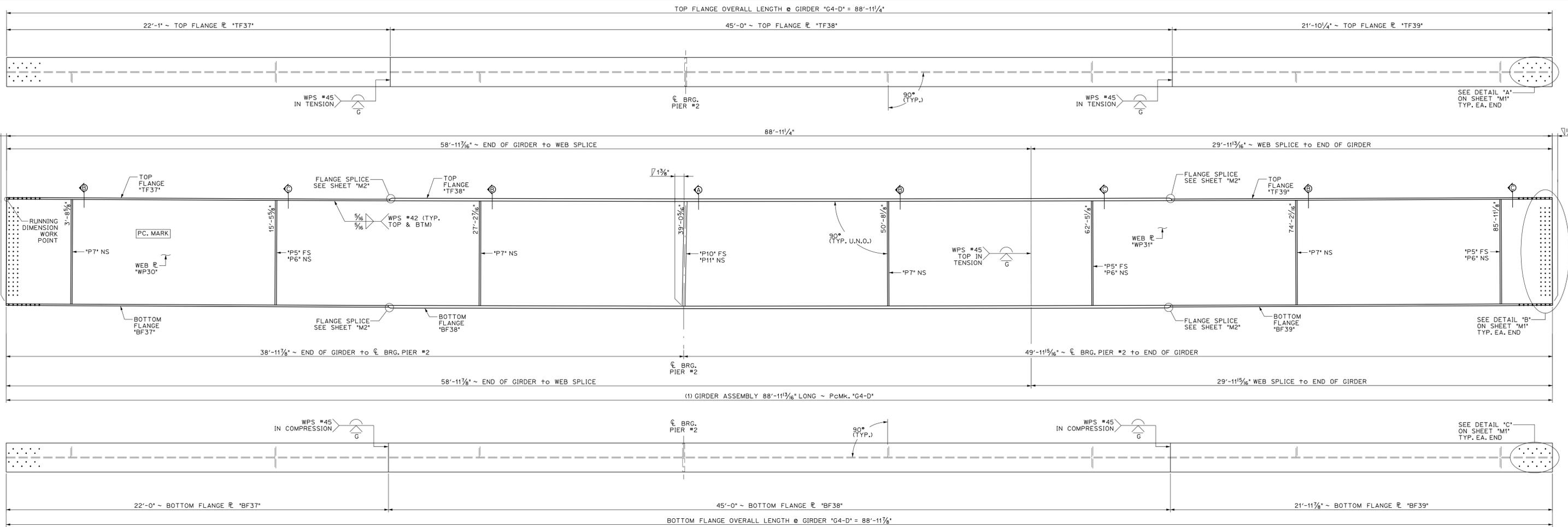
PROJECT No. IM 089-2(43)
 ITEM No. 506.55

FINISH	SSPC SP6		
MATERIAL	AASHTO M270 (ASTM A709) GRADE 50W		
HOLES	15/16" Ø U.N.D.		
ELECTRODES	PER WELD PROCEDURE		
WELDS	PER WELD PROCEDURE		
SURFACE PREP	SSPC SP6		

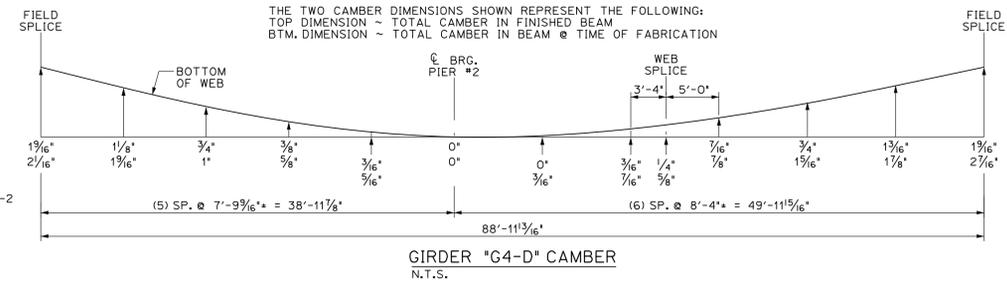
NO.	DATE	DESCRIPTION	BY
REVISIONS			

ARC ENTERPRISES, INC.
 ADVANCED RESOURCES & CONST. ENTERPRISES, INCORPORATED
 P.O. BOX 120 KINGFIELD, ME, 04947
 PHONE: (207) 265-2646 - FAX: (207) 265-4054

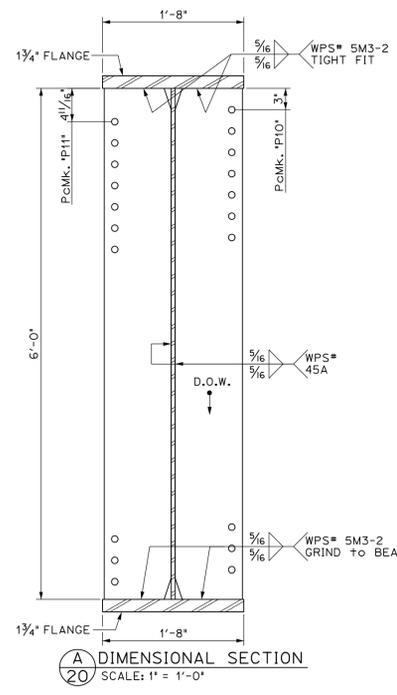
DRAFTER	JJH	GIRDER "G3-D"	PROJECT NO.	14-148
DATE	NOV. 2014	WATERBURY VT. BRIDGE 46A	DWG. NO.	19
CHECKED	DLM	L89 EXIT RAMP over STOWE ST. & THATCHER BROOK		
DATE	NOV. 2014	BECK & BELLUCCI		



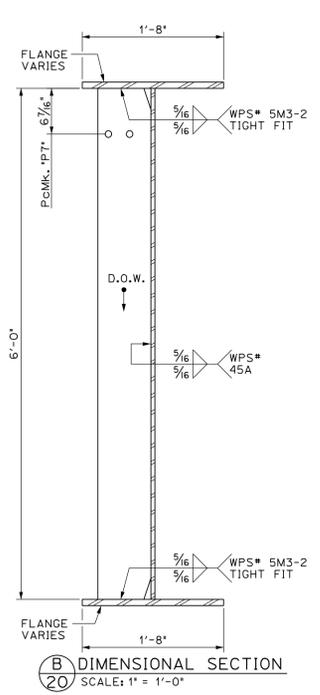
1 DIMENSIONAL PLANS & ELEVATIONS ~ GIRDER "G4-D"
 20 SCALE: 3/8" = 1'-0"



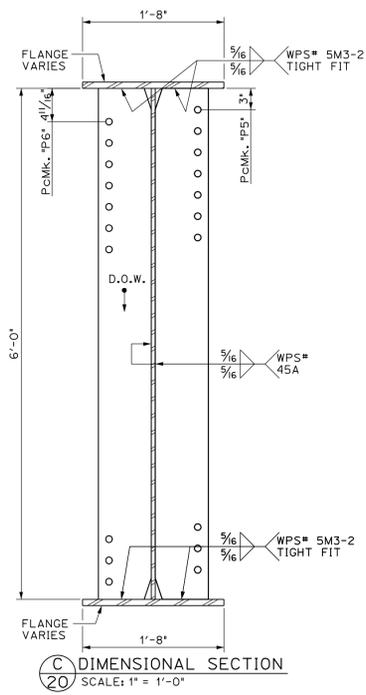
BILL OF MATERIALS							
SHIP	SHIP MARK	NO. PCS.	PIECE MARK	DESCRIPTION	LENGTH	WEIGHT	MATERIAL
1	G4-D			BRIDGE GIRDER ASSEMBLY	88'-11 3/16"	31,300*	
		1	WP30	ℓ 3/8" x 72'	59'-0"	4150*	CVN
		1	WP31	ℓ 3/8" x 72'	29'-11 1/2"	8150*	CVN
		1	TF37	ℓ 1/8" x 20'	22'-1"	1725*	CVN
		1	TF38	ℓ 1 3/4" x 20'	45'-0"	5400*	CVN
		1	TF39	ℓ 1 1/8" x 20'	21'-10 1/4"	1725*	CVN
		1	BF37	ℓ 1/8" x 20'	22'-0"	1725*	CVN
		1	BF38	ℓ 1 3/4" x 20'	45'-0"	5400*	CVN
		1	BF39	ℓ 1/8" x 20'	21'-11 1/8"	1725*	CVN
		3	P5	SEE SHEET M2			
		3	P6	SEE SHEET M2			
		4	P7	SEE SHEET M2			
		1	P10	SEE SHEET M2			
		1	P11	SEE SHEET M2			



A DIMENSIONAL SECTION
 20 SCALE: 1" = 1'-0"



B DIMENSIONAL SECTION
 20 SCALE: 1" = 1'-0"



C DIMENSIONAL SECTION
 20 SCALE: 1" = 1'-0"

SHOP DRAWINGS ARE REVIEWED UNLESS NOTED OTHERWISE
 NO EXCEPTION TAKEN
 REVISION AS NOTED
 RESUBMISSION NOT REQUIRED
 REVISION AS NOTED
 RESUBMISSION REQUIRED
 RE-APPROVED
 DATE: 11/5/15
 SIGNATURE: [Signature]
 REVIEW BY STANTEC IS FOR THE SOLE PURPOSE OF ASCERTAINING GENERAL CONFORMITY WITH DESIGN. CONTRACTOR IS RESPONSIBLE FOR DIMENSIONS, FABRICATION AND CONSTRUCTION METHODS, COORDINATION OF SUB-TRADES, DETAIL DESIGN OF COMPONENTS, AND ERRORS OR OMISSIONS ON SHOP DRAWINGS.

PROJECT No. IM 089-2(43)
 ITEM No. 506.55

FINISH	SSPC SP6		
MATERIAL	AASHTO M270 (ASTM A709) GRADE 50W		
HOLES	15/16" Ø U.N.O.		
ELECTRODES	PER WELD PROCEDURE		
WELDS	PER WELD PROCEDURE		
SURFACE PREP	SSPC SP6		

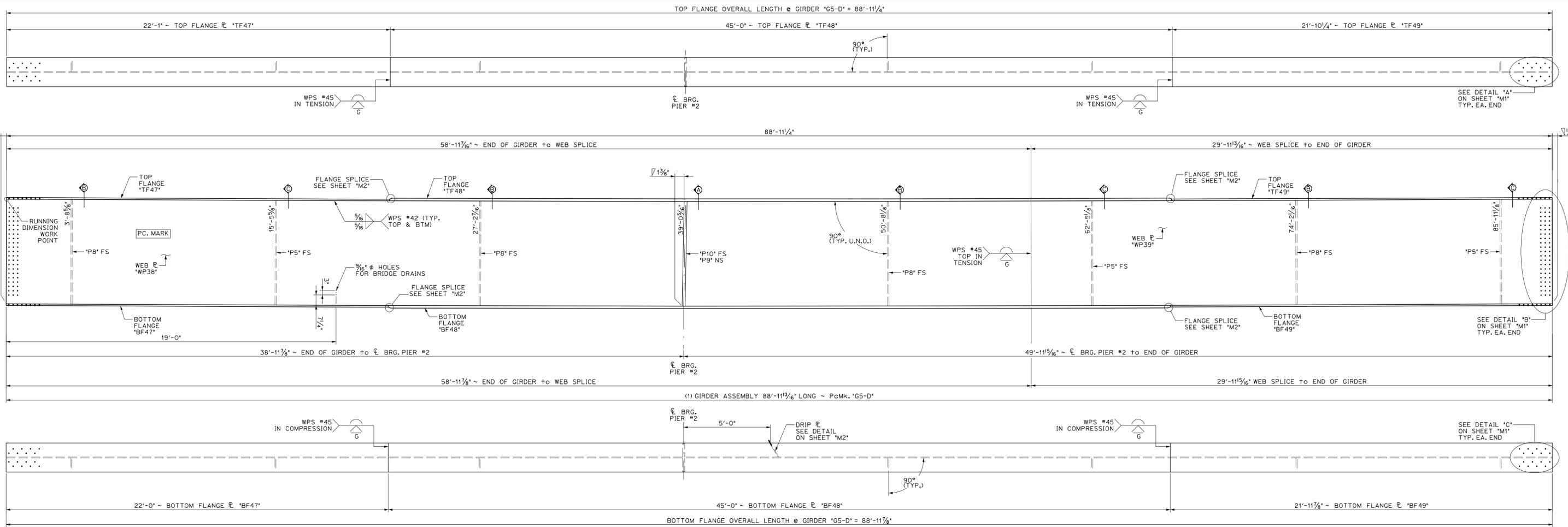
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REVISIONS

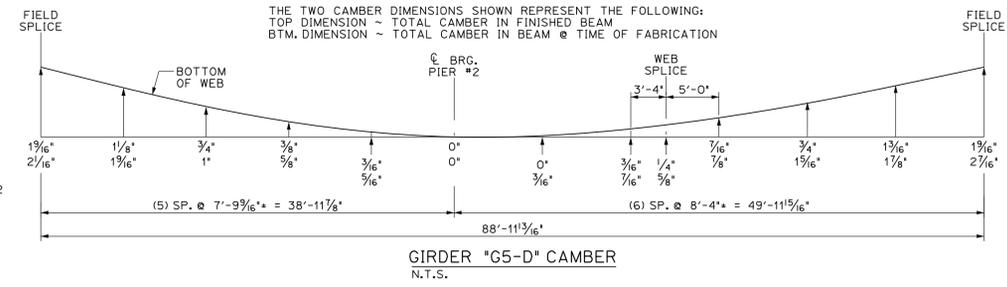
ARC ENTERPRISES, INC.

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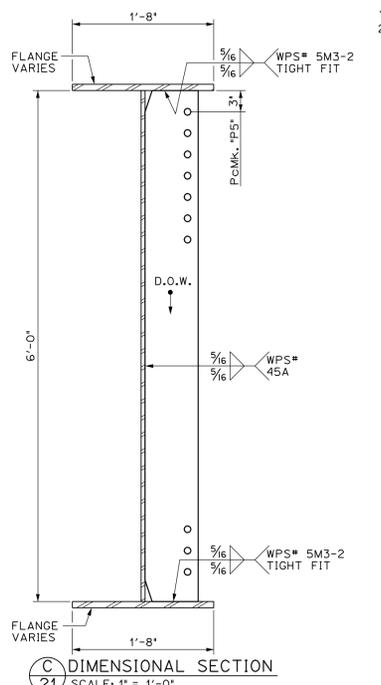
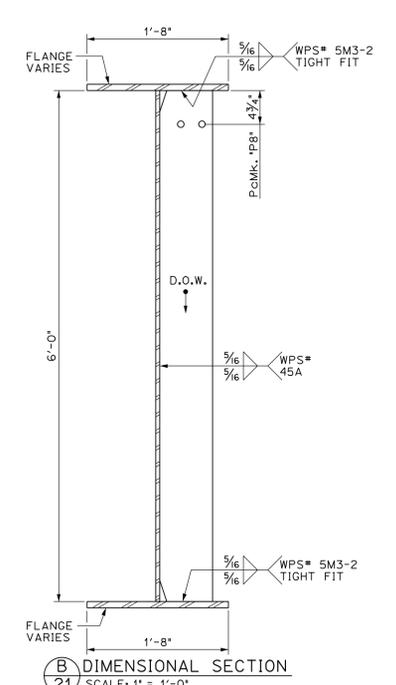
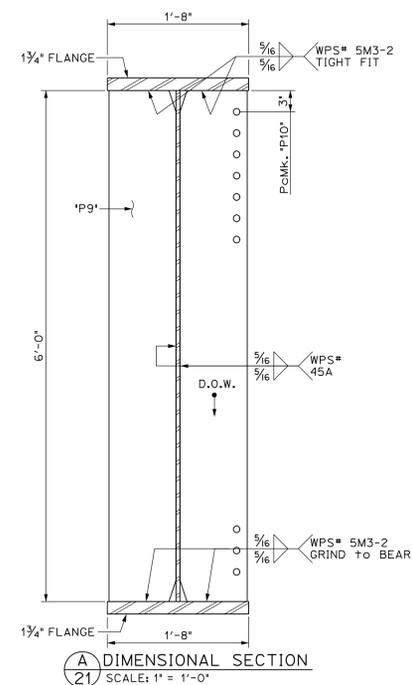
DRAFTER	JJH	GIRDER "G4-D"	PROJECT NO.
DATE	NOV. 2014	WATERBURY, VT. BRIDGE 46A	14-148
CHECKED	DLM	L-89 EXIT RAMP over STOWE ST. & THATCHER BROOK	DWG. NO.
DATE	NOV. 2014	BECK & BELLUCCI	20



1 DIMENSIONAL PLANS & ELEVATIONS ~ GIRDER "G5-D"
 21 SCALE: 3/8" = 1'-0"



BILL OF MATERIALS							
SHIP MARK	SHIP MARK	NO. PCS.	PIECE MARK	DESCRIPTION	LENGTH	WEIGHT	MATERIAL
1	G5-D			BRIDGE GIRDER ASSEMBLY	88'-11 1/8"	31,100#	
		1	WP38	ℓ 3/8" x 72'	59'-0"	4150#	CVN
		1	WP39	ℓ 3/8" x 72'	29'-11 1/2"	8150#	CVN
		1	TF47	ℓ 1 1/8" x 20'	22'-1"	1725#	CVN
		1	TF48	ℓ 1 1/8" x 20'	45'-0"	5400#	CVN
		1	TF49	ℓ 1 1/8" x 20'	21'-10 1/4"	1725#	CVN
		1	BF47	ℓ 1 1/8" x 20'	22'-0"	1725#	CVN
		1	BF48	ℓ 1 1/8" x 20'	45'-0"	5400#	CVN
		1	BF49	ℓ 1 1/8" x 20'	21'-11 1/8"	1725#	CVN
		3	P5	SEE SHEET M2			
		4	P8	SEE SHEET M2			
		1	P9	SEE SHEET M2			
		1	P10	SEE SHEET M2			



SHOP DRAWINGS ARE REVIEWED UNLESS NOTED OTHERWISE
 NO EXCEPTION TAKEN
 REVIEW AS NOTED
 RESUBMISSION NOT REQUIRED
 REVIEW AS NOTED
 RESUBMISSION REQUIRED
 REASOINED

DATE: 1/15/15
 SIGNATURE: [Signature]

REVIEW BY STANTEC IS FOR THE SOLE PURPOSE OF ASCERTAINING GENERAL CONFORMANCE WITH DESIGN. CONTRACTOR IS RESPONSIBLE FOR DIMENSIONS, FABRICATION AND CONSTRUCTION METHODS, COORDINATION OF SUB-TRADES, DETAIL DESIGN OF COMPONENTS, AND ERRORS OR OMISSIONS ON SHOP DRAWINGS.

PROJECT No. IM 089-2(43)
 ITEM No. 506.55

FINISH	SSPC SP6		
MATERIAL	AASHTO M270 (ASTM A709) GRADE 50W		
HOLES	15/16" Ø U.N.O.		
ELECTRODES	PER WELD PROCEDURE		
WELDS	PER WELD PROCEDURE		
SURFACE PREP	SSPC SP6		

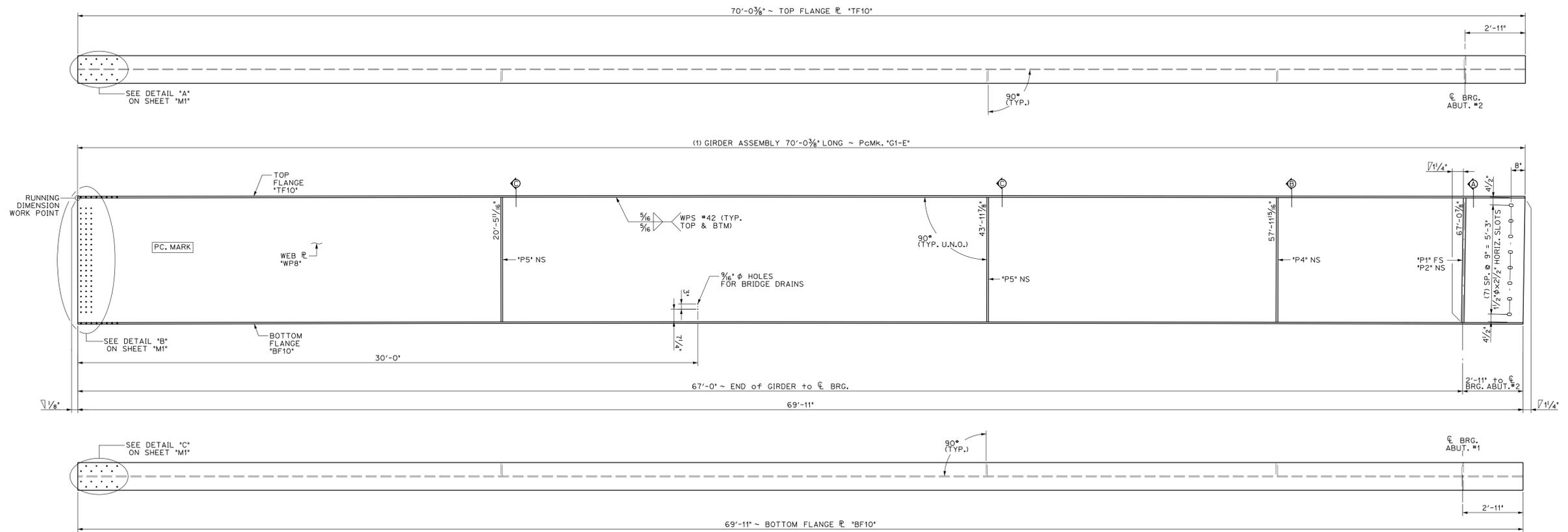
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REVISIONS

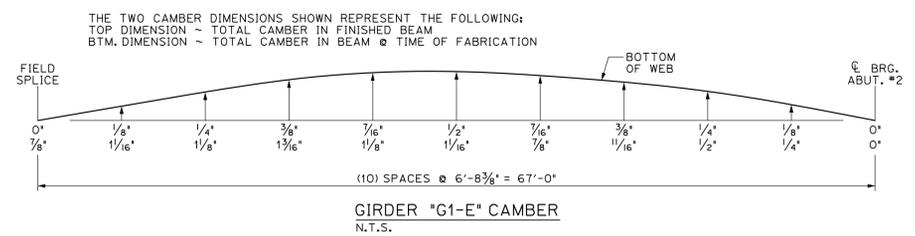
ARC ENTERPRISES, INC.

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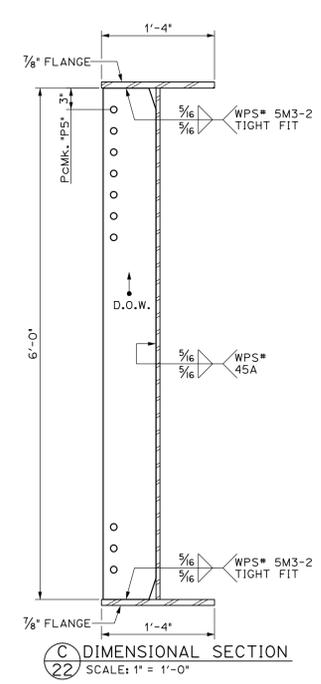
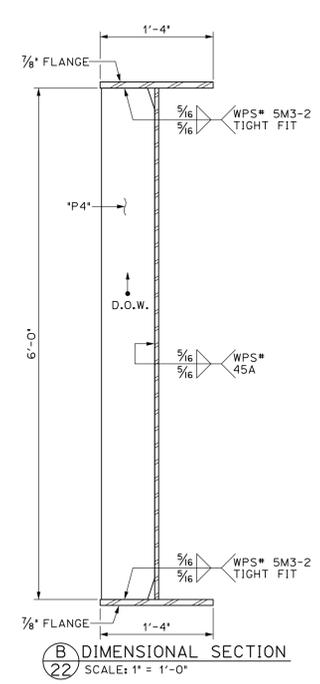
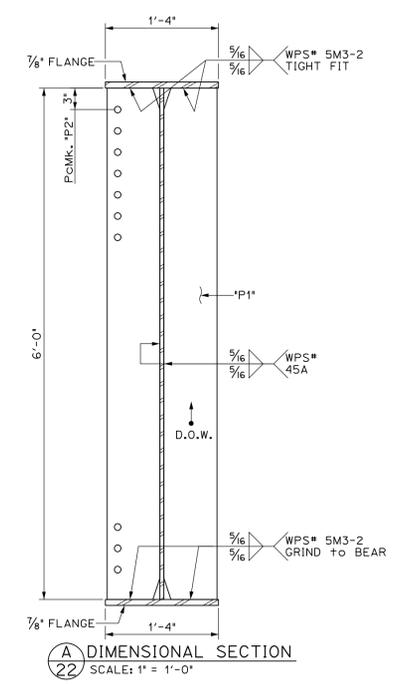
DRAFTER	JJH	GIRDER "G5-D"	PROJECT NO.
DATE	NOV. 2014	WATERBURY, VT. BRIDGE 46A	14-148
CHECKED	DLM	L89 EXIT RAMP over STOWE ST. & THATCHER BROOK	DWG. NO.
DATE	NOV. 2014	BECK & BELLUCCI	21



1 DIMENSIONAL PLANS & ELEVATIONS ~ GIRDER "G1-E"
 22 SCALE: 3/8" = 1'-0"



BILL OF MATERIALS							
SHIP	SHIP MARK	NO. PCS.	PIECE MARK	DESCRIPTION	LENGTH	WEIGHT	MATERIAL
1	G1-E			BRIDGE GIRDER ASSEMBLY	70'-0 3/8"	16,950*	
		1	WP8	R 3/8" x 72'	70'-0 3/8"	9700*	CVN
		1	TF10	R 7/8" x 16'	70'-0 1/4"	3350*	CVN
		1	BF10	R 7/8" x 16'	69'-11"	3350*	CVN
		1	P1	SEE SHEET M2			
		1	P2	SEE SHEET M2			
		1	P4	SEE SHEET M2			
		2	P5	SEE SHEET M2			



SHOP DRAWINGS ARE REVIEWED UNLESS NOTED OTHERWISE

NO EXCEPTION TAKEN
 REVISIONS NOTED
 RESUBMISSION NOT REQUIRED
 REVISIONS NOTED
 RESUBMISSION REQUIRED
 REJECTED

DATE: 1/15/15
 SIGNATURE: [Signature]

REVIEW BY STARTER IS FOR THE SOLE PURPOSE OF ASCERTAINING GENERAL CONFORMITY WITH DESIGN. CONTRACTOR IS RESPONSIBLE FOR DIMENSIONAL FABRICATION AND CONSTRUCTION METHODS, COORDINATION OF SUB-TRADES, DETAIL DESIGN OF COMPONENTS, AND ERRORS OR OMISSIONS ON SHOP DRAWINGS.

PROJECT No. IM 089-2(43)
 ITEM No. 506.55

FINISH	SSPC SP6			
MATERIAL	AASHTO M270 (ASTM A709) GRADE 50W			
HOLES	15/16" Ø U.N.D.			
ELECTRODES	PER WELD PROCEDURE			
WELDS	PER WELD PROCEDURE			
SURFACE PREP	SSPC SP6			

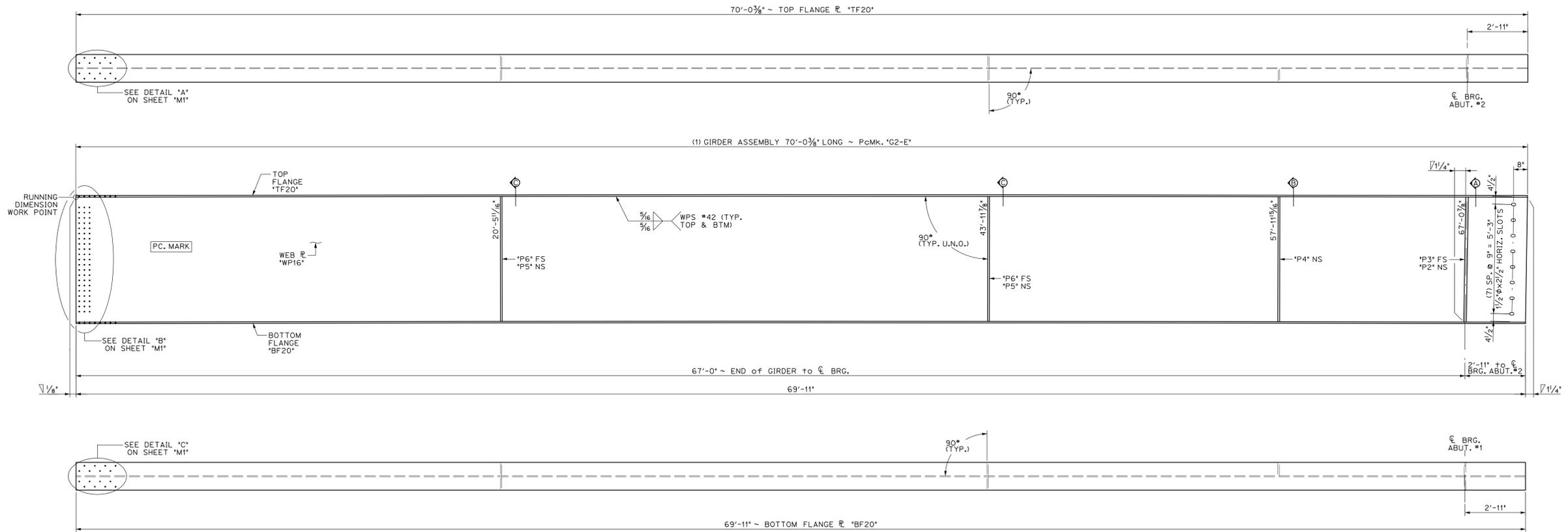
NO DATE DESCRIPTION BY

REVISIONS

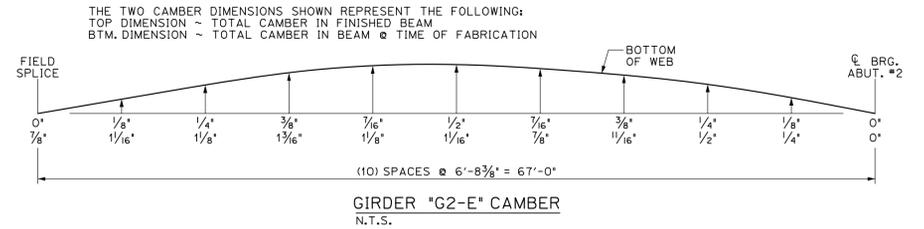
ARC
 ENTERPRISES, INC.

ADVANCED RESOURCES & CONST.
 ENTERPRISES, INCORPORATED
 P.O. BOX 120 KINGFIELD, ME. 04947
 PHONE: (207) 265-2646 - FAX: (207) 265-4054

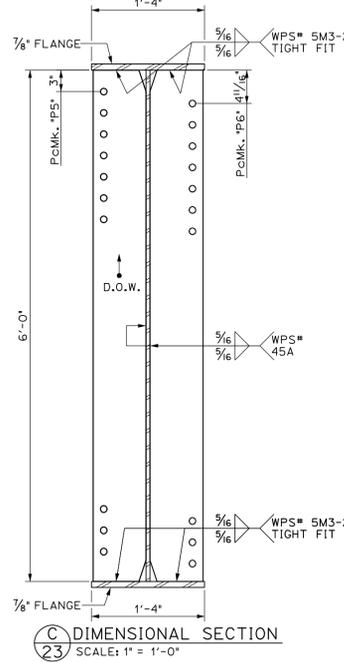
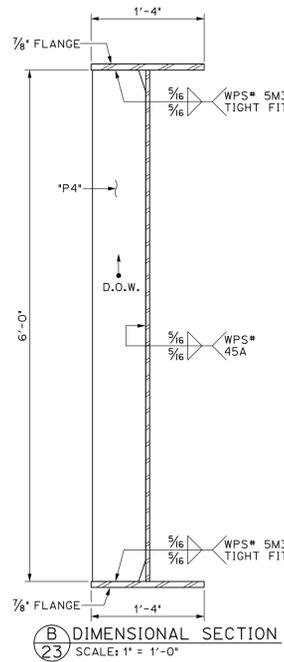
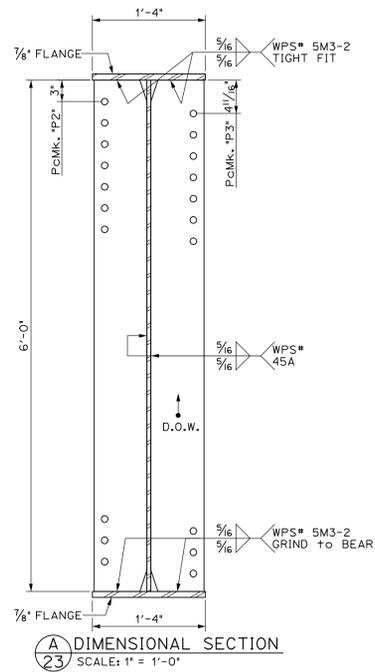
DRAFTER	JJH	GIRDER "G1-E"	PROJECT NO.
DATE	NOV. 2014	WATERBURY, VT. BRIDGE 46A	14-148
CHECKED	DLM	L-89 EXIT RAMP over STOWE ST. & THATCHER BROOK	DWG. NO.
DATE	NOV. 2014	BECK & BELLUCCI	22



1 23 DIMENSIONAL PLANS & ELEVATIONS ~ GIRDER "G2-E"
SCALE: 3/8" = 1'-0"



BILL OF MATERIALS							
SHIP MARK	SHIP MARK	NO. PCS.	PIECE MARK	DESCRIPTION	LENGTH	WEIGHT	MATERIAL
1	G2-E			BRIDGE GIRDER ASSEMBLY	70'-0 3/8"	17,100#	
		1	WP16	R 3/8" x 72'	70'-0 3/8"	9700#	CVN
		1	TF20	R 7/8" x 16'	70'-0 3/8"	3350#	CVN
		1	BF20	R 7/8" x 16'	69'-11"	3350#	CVN
		1	P2	SEE SHEET M2			
		1	P3	SEE SHEET M2			
		1	P4	SEE SHEET M2			
		2	P5	SEE SHEET M2			
		2	P6	SEE SHEET M2			



SHOP DRAWINGS ARE REVIEWED UNLESS NOTED OTHERWISE

NO EXCEPTION AVERN

REVIEW AS NOTED

REVISIONS NOT REQUIRED

REVIEW AS NOTED

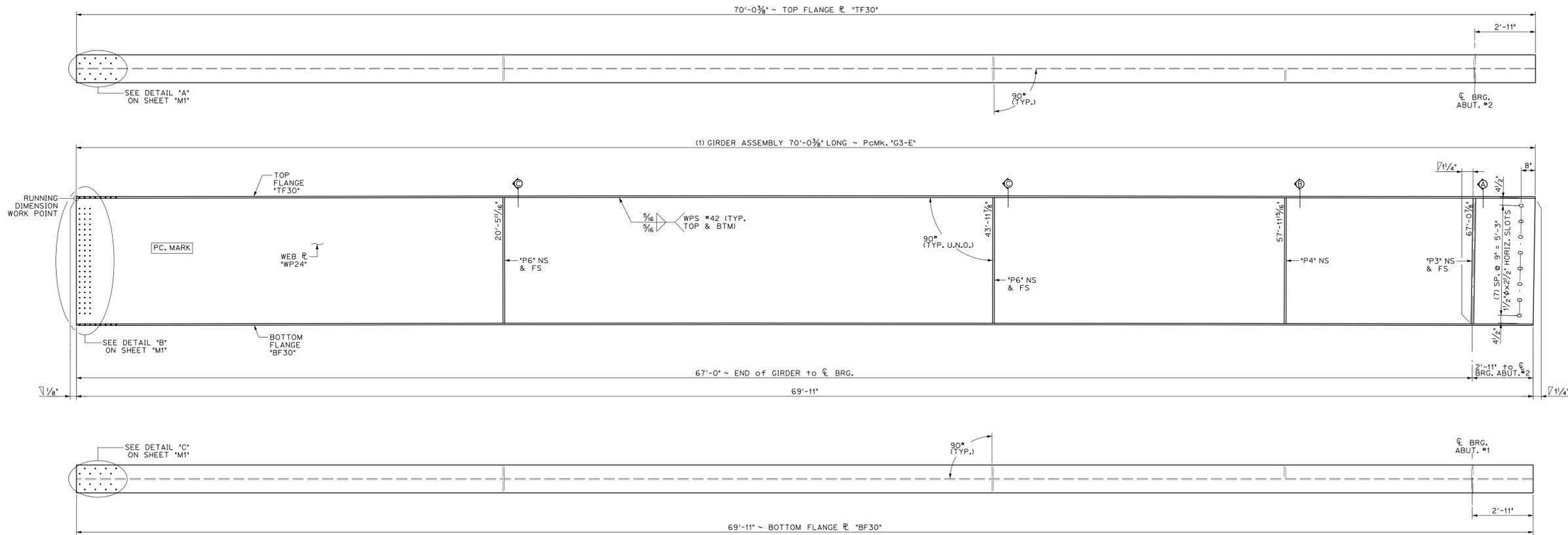
REVISIONS REQUIRED

DATE: 11/15/15

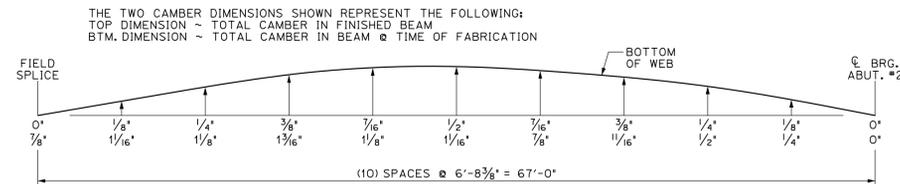
SIGNATURE: [Signature]

REVIEW BY STANTEC IS FOR THE SOLE PURPOSE OF ASCERTAINING GENERAL CONFORMANCE WITH DESIGN. CONTRACTOR IS RESPONSIBLE FOR DIMENSIONS, FABRICATION AND CONSTRUCTION METHODS. COORDINATION OF SUB-FRAMES, DETAIL DESIGN OF COMPONENTS, AND ERRORS OR OMISSIONS ON SHOP DRAWINGS.

PROJECT No. IM 089-2(43) ITEM No. 506.55			
FINISH	SSPC SP6		
MATERIAL	AASHTO M270 (ASTM A709) GRADE 50W		
HOLES	15/16" @ U.N.O.		
ELECTRODES	PER WELD PROCEDURE		
WELDS	PER WELD PROCEDURE		
SURFACE PREP	SSPC SP6		
	NO	DATE	DESCRIPTION
REVISIONS			
		ADVANCED RESOURCES & CONST. ENTERPRISES, INCORPORATED P.O. BOX 120 KINGFIELD, ME, 04947 PHONE: (207) 265-2646 - FAX: (207) 265-4054	
DRAFTER	JJH	GIRDER "G2-E"	PROJECT NO.
DATE	NOV. 2014	WATERBURY, VT. BRIDGE 46A	14-148
CHECKED	DLM	L-89 EXIT RAMP over STOWE ST. & THATCHER BROOK	DWG. NO.
DATE	NOV. 2014	BECK & BELLUCCI	23



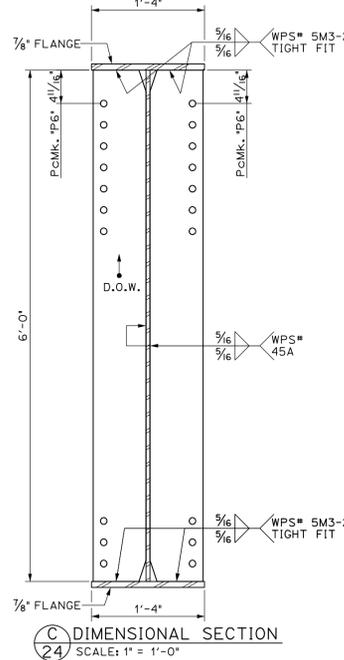
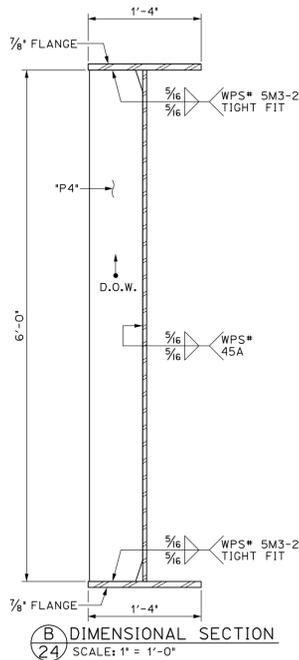
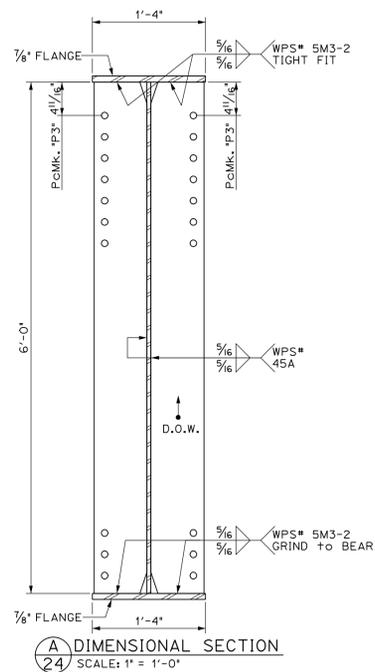
1 24 DIMENSIONAL PLANS & ELEVATIONS ~ GIRDER "G3-E"
SCALE: 3/8" = 1'-0"



GIRDER "G3-E" CAMBER
N.T.S.

BILL OF MATERIALS

SHIP MARK	SHIP MARK	NO. PCS.	PIECE MARK	DESCRIPTION	LENGTH	WEIGHT	MATERIAL
1	G3-E			BRIDGE GIRDER ASSEMBLY	70'-0 3/8"	17,100#	
		1	WP24	R 3/8" x 72'	70'-0 3/8"	9700#	CVN
		1	TF30	R 7/8" x 16'	70'-0 3/8"	3350#	CVN
		1	BF30	R 7/8" x 16'	69'-11"	3350#	CVN
		2	P3	SEE SHEET M2			
		1	P4	SEE SHEET M2			
		4	P6	SEE SHEET M2			



SHOP DRAWINGS ARE REVIEWED UNLESS NOTED OTHERWISE

NO EXCEPTIONS / ASH

RESUBMIT REQUIRED

RESUBMISSION NOT REQUIRED

REWORK AS NOTED

RESUBMISSION REQUIRED

REWORKED

DATE: 1/15/15

SIGNATURE: [Signature]

REVIEW BY STANTEC IS FOR THE SOLE PURPOSE OF ASCERTAINING GENERAL CONFORMITY WITH DESIGN. CONTRACTOR IS RESPONSIBLE FOR DIMENSIONS, FABRICATION AND CONSTRUCTION METHODS, SELECTION OF SUBSTITUTES, DETAIL DESIGN OF COMPONENTS, AND ERRORS OR OMISSIONS ON SHOP DRAWINGS.

PROJECT No. IM 089-2(43)
ITEM No. 506.55

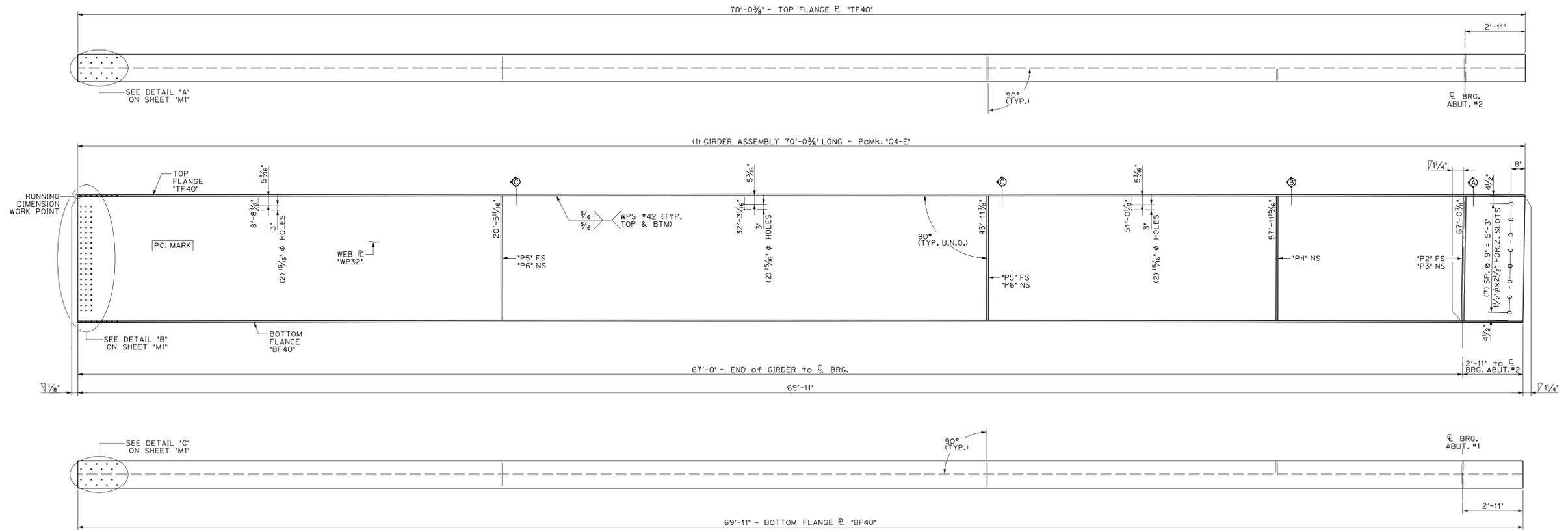
FINISH	SSPC SP6			
MATERIAL	AASHTO M270 (ASTM A709) GRADE 50W			
HOLES	15/16" Ø U.N.D.			
ELECTRODES	PER WELD PROCEDURE			
WELDS	PER WELD PROCEDURE			
SURFACE PREP	SSPC SP6			

NO.	DATE	DESCRIPTION	BY
REVISIONS			

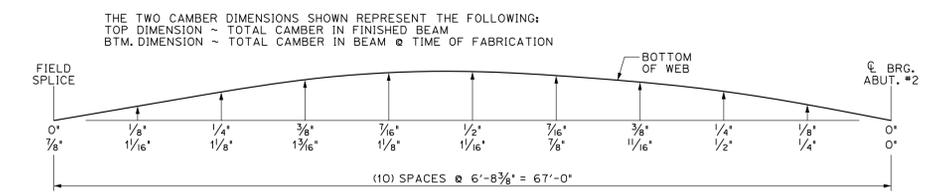
ARC
ENTERPRISES, INC.

ADVANCED RESOURCES & CONST. ENTERPRISES, INCORPORATED
P.O. BOX 120 KINGFIELD, ME, 04947
PHONE: (207) 265-2646 - FAX: (207) 265-4054

DRAFTER	JJH	GIRDER "G3-E"	PROJECT NO.	14-148
DATE	NOV. 2014	WATERBURY, VT. BRIDGE 46A	DWG. NO.	24
CHECKED	DLM	L-89 EXIT RAMP over STOWE ST. & THATCHER BROOK		
DATE	NOV. 2014	BECK & BELLUCCI		

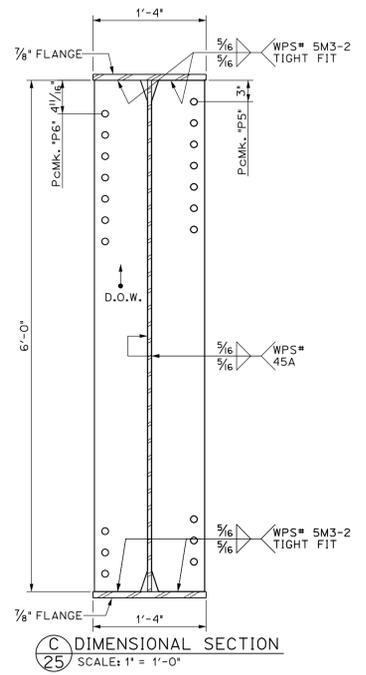
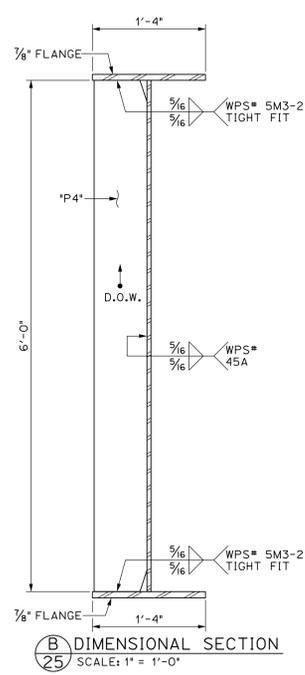
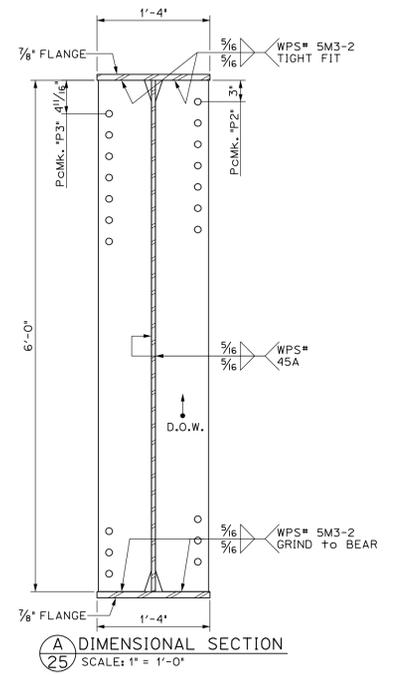


1
25 DIMENSIONAL PLANS & ELEVATIONS ~ GIRDER "G4-E"
SCALE: 3/8" = 1'-0"



GIRDER "G4-E" CAMBER
N.T.S.

BILL OF MATERIALS							
SHIP MARK	SHIP MARK	NO. PCS.	PIECE MARK	DESCRIPTION	LENGTH	WEIGHT	MATERIAL
1	G4-E			BRIDGE GIRDER ASSEMBLY	70'-0 3/8"	17,100#	
		1	WP32	R 3/16" x 72'	70'-0 3/8"	9700#	CVN
		1	TF40	R 7/8" x 16'	70'-0 3/8"	3350#	CVN
		1	BF40	R 7/8" x 16'	69'-11"	3350#	CVN
		1	P2	SEE SHEET M2			
		1	P3	SEE SHEET M2			
		1	P4	SEE SHEET M2			
		2	P5	SEE SHEET M2			
		2	P6	SEE SHEET M2			



SHOP DRAWINGS ARE REVIEWED UNLESS NOTED OTHERWISE

NO EXCEPTIONS / ASH

RESUBMITTED / RESUBMISSION NOT REQUIRED

REWORK AS NOTED / RESUBMISSION REQUIRED

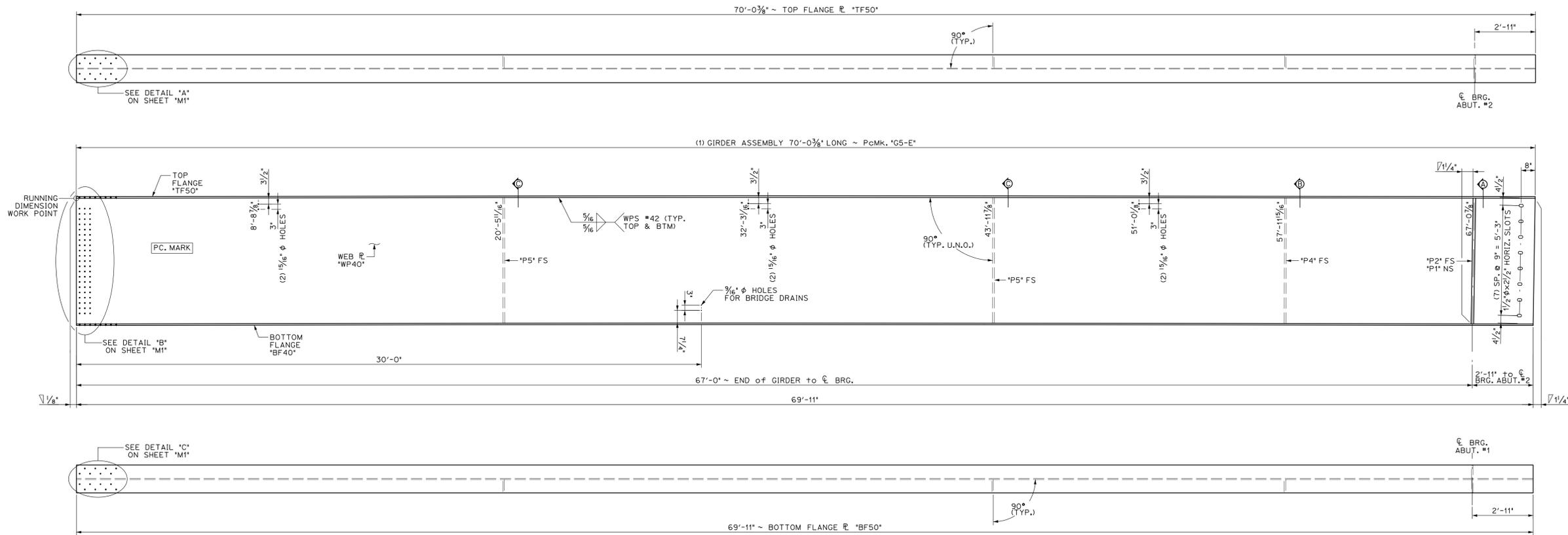
REWORKED

DATE: 1/15/15

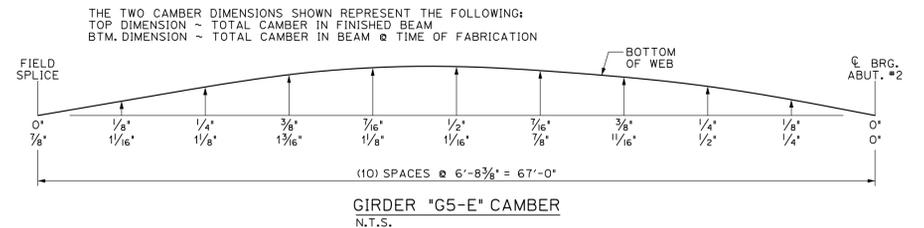
SIGNATURE: [Signature]

REVIEW BY STANTEC IS FOR THE SOLE PURPOSE OF ASCERTAINING GENERAL CONFORMITY WITH DESIGN. CONTRACTOR IS RESPONSIBLE FOR DIMENSIONS, FABRICATION AND CONSTRUCTION METHOD, CORRECTION OF SUBMITTALS, DETAIL DESIGN OF COMPONENTS, AND ERRORS OR OMISSIONS ON SHOP DRAWINGS.

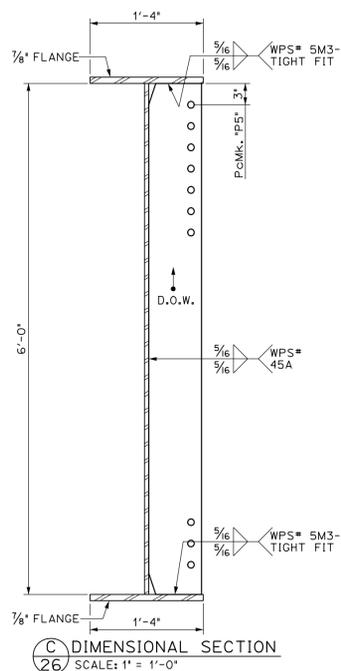
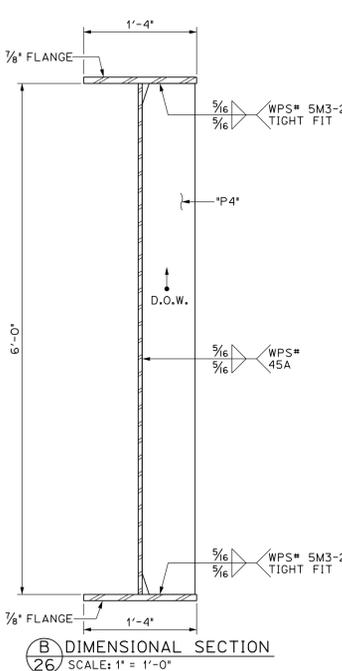
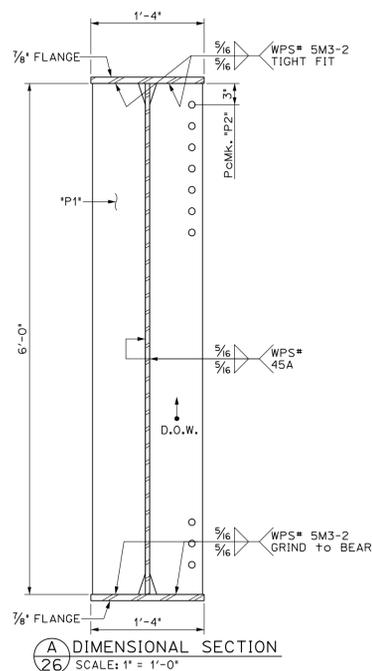
PROJECT No. IM 089-2(43) ITEM No. 506.55			
FINISH	SSPC SP6		
MATERIAL	AASHTO M270 (ASTM A709) GRADE 50W		
HOLES	15/16" Ø U.N.O.		
ELECTRODES	PER WELD PROCEDURE		
WELDS	PER WELD PROCEDURE		
SURFACE PREP	SSPC SP6		
NO	DATE	DESCRIPTION	BY
REVISIONS			
		ADVANCED RESOURCES & CONST. ENTERPRISES, INCORPORATED P.O. BOX 120 KINGFIELD, ME. 04947 PHONE: (207) 265-2646 - FAX: (207) 265-4054	
DRAFTER	JJH	GIRDER "G4-E"	PROJECT NO.
DATE	NOV. 2014	WATERBURY VT. BRIDGE 46A	14-148
CHECKED	DLM	L-89 EXIT RAMP over STOWE ST. & THATCHER BROOK	DWG. NO.
DATE	NOV. 2014	BECK & BELLUCCI	25



1 DIMENSIONAL PLANS & ELEVATIONS ~ GIRDER "G5-E"
 26 SCALE: 3/8" = 1'-0"

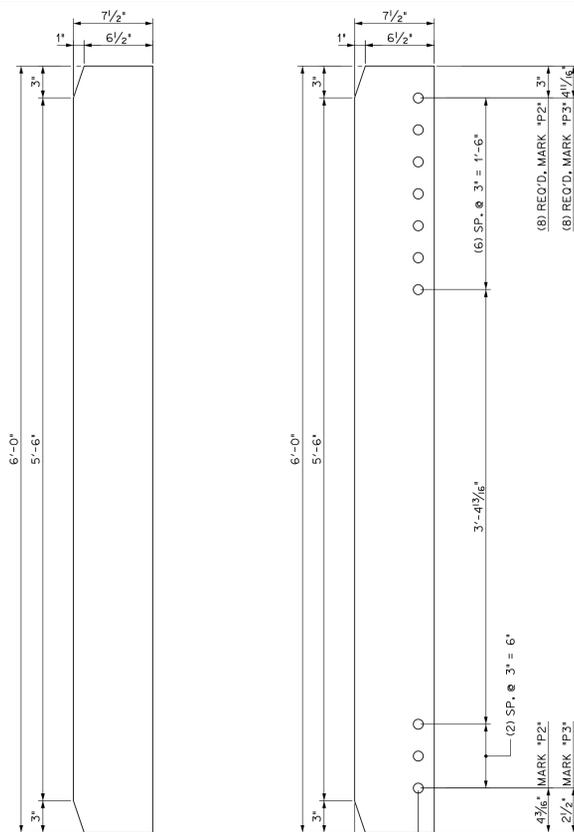


BILL OF MATERIALS							
SHIP	SHIP MARK	NO. PCS.	PIECE MARK	DESCRIPTION	LENGTH	WEIGHT	MATERIAL
1	G5-E			BRIDGE GIRDER ASSEMBLY	70'-0 3/8"	16,950#	
		1	WP40	R 3/8" x 72'	70'-0 3/8"	9700#	CVN
		1	TF50	R 7/8" x 16'	70'-0 3/8"	3350#	CVN
		1	BF50	R 7/8" x 16'	69'-11"	3350#	CVN
		1	P1	SEE SHEET M2			
		1	P2	SEE SHEET M2			
		1	P4	SEE SHEET M2			
		2	P5	SEE SHEET M2			

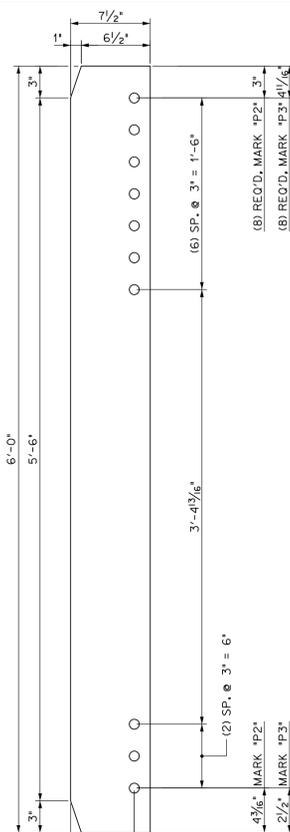


SHOP DRAWINGS ARE REVIEWED UNLESS NOTED OTHERWISE
 NO EXCEPTION - WHEN REVIEWED AS NOTED PERMISSIBILITY NOT REQUIRED
 DATE: 1/15/15
 SIGNATURE: [Signature]
 REVIEW BY STANTEC IS FOR THE SOLE PURPOSE OF ASCERTAINING GENERAL CONFORMITY WITH DESIGN. CONTRACTOR IS RESPONSIBLE FOR DIMENSIONS, FABRICATION AND CONSTRUCTION METHODS. COORDINATION OF SUB-TRADES, DETAIL DESIGN OF COMPONENTS, AND ERRORS OR OMISSIONS ON SHOP DRAWINGS.

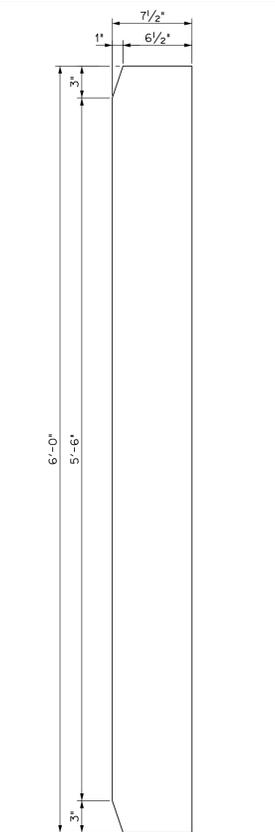
PROJECT No. IM 089-2(43) ITEM No. 506.55			
FINISH	SSPC SP6		
MATERIAL	AASHTO M270 (ASTM A709) GRADE 50W		
HOLES	15/16" Ø U.N.D.		
ELECTRODES	PER WELD PROCEDURE		
WELDS	PER WELD PROCEDURE		
SURFACE PREP	SSPC SP6		
NO DATE DESCRIPTION BY			
REVISIONS			
		ADVANCED RESOURCES & CONST. ENTERPRISES, INCORPORATED P.O. BOX 120 KINGFIELD, ME. 04947 PHONE: (207) 265-2646 - FAX: (207) 265-4054	
DRAFTER	JH	GIRDER "G5-E"	PROJECT NO. 14-148
DATE	NOV. 2014	WATERBURY VT. BRIDGE 46A	DWG. NO. 26
CHECKED	DLM	L-89 EXIT RAMP over STOWE ST. & THATCHER BROOK	
DATE	NOV. 2014	BECK & BELLUCCI	



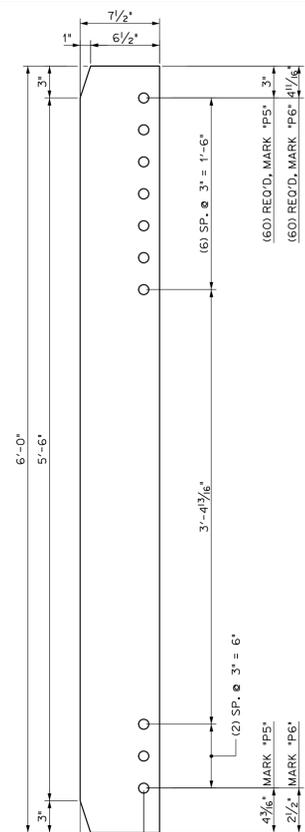
1/8" BEARING PLATE, MARK "P1"
 SCALE: 1 1/2" = 1'-0"
 FOR USE ON FASCIA GIRDERS
 @ ABUTMENTS



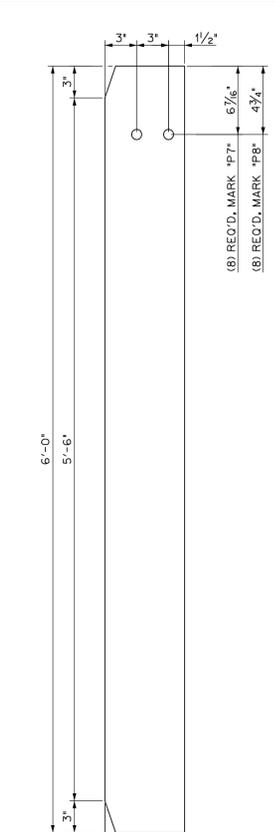
1/8" BEARING PLATE'S
 SCALE: 1 1/2" = 1'-0"
 FOR USE @ ABUTMENTS



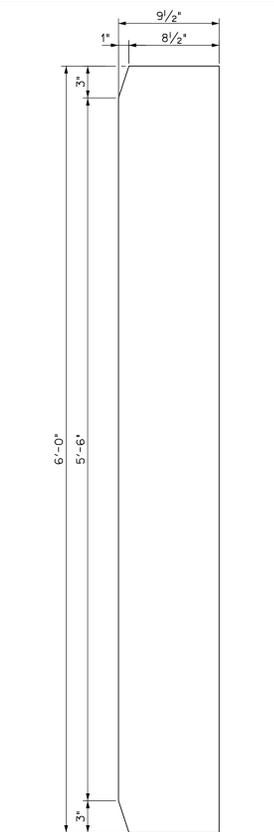
1/2" STIFFENER PLATE, MARK "P4"
 SCALE: 1 1/2" = 1'-0"



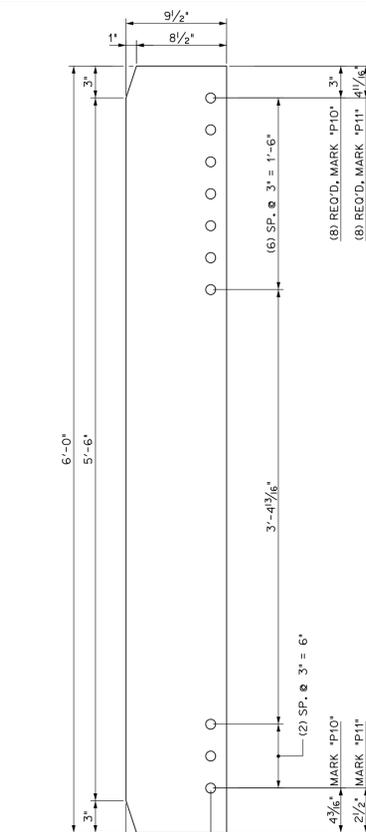
1/2" CONNECTION PLATE'S
 SCALE: 1 1/2" = 1'-0"



1/2" CONNECTION PLATE'S
 SCALE: 1 1/2" = 1'-0"
 FOR USE AS ITS SUPPORT
 @ TRANSVERSE STIFFENER LOCATIONS

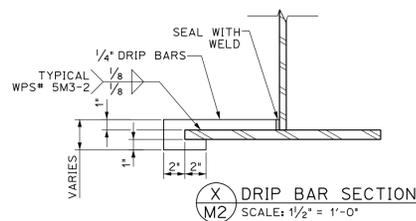


1/4" BEARING PLATE, MARK "P9"
 SCALE: 1 1/2" = 1'-0"
 FOR USE ON FASCIA GIRDERS
 @ PIERS

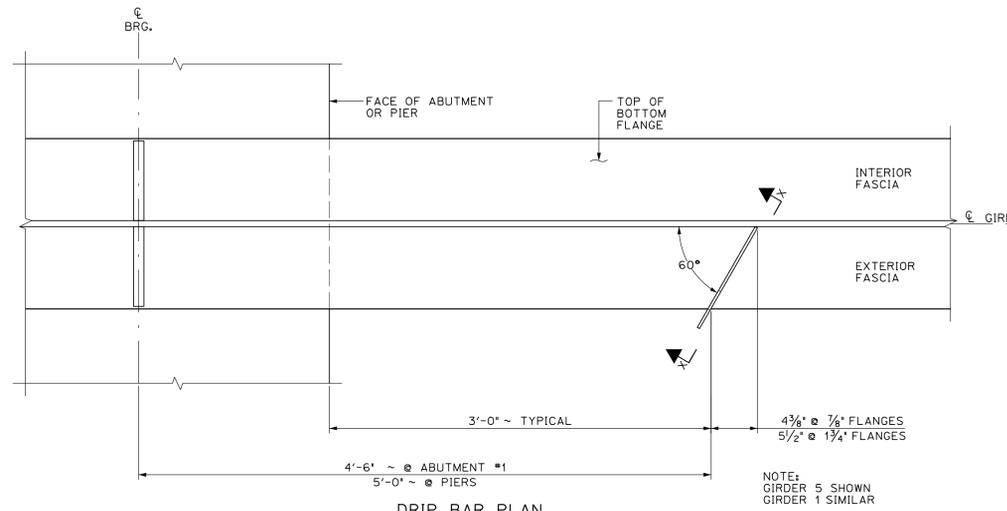


1/4" BEARING PLATE'S
 SCALE: 1 1/2" = 1'-0"
 FOR USE @ PIERS

BILL OF MATERIALS							
SHIP	SHIP MARK	NO. PCS.	PIECE MARK	DESCRIPTION	LENGTH	WEIGHT	MATERIAL
4	P1			PL 7/8" x 7 1/2"	6'-0"	135# EACH	
8	P2			PL 7/8" x 7 1/2"	6'-0"	135# EACH	
8	P3			PL 7/8" x 7 1/2"	6'-0"	135# EACH	
34	P4			PL 1/2" x 7 1/2"	6'-0"	80# EACH	
60	P5			PL 1/2" x 7 1/2"	6'-0"	80# EACH	
60	P6			PL 1/2" x 7 1/2"	6'-0"	80# EACH	
8	P7			PL 1/2" x 7 1/2"	6'-0"	80# EACH	
8	P8			PL 1/2" x 7 1/2"	6'-0"	80# EACH	
4	P9			PL 1 1/4" x 9 1/2"	6'-0"	250# EACH	
8	P10			PL 1 1/4" x 9 1/2"	6'-0"	250# EACH	
8	P11			PL 1 1/4" x 9 1/2"	6'-0"	250# EACH	



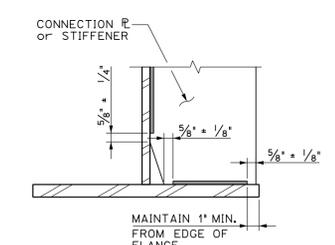
DRIP BAR SECTION
 SCALE: 1 1/2" = 1'-0"



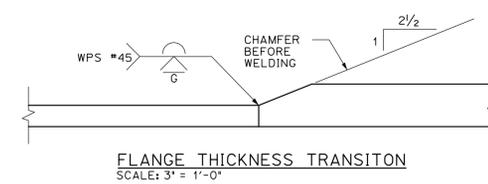
DRIP BAR PLAN

NOTE:
 GIRDER 5 SHOWN
 GIRDER 1 SIMILAR

610P DRAWINGS ARE REVIEWED UNLESS NOTED OTHERWISE
 NO EXCEPTION TAKEN
 REVIEW AS NOTED RESUBMISSION NOT REQUIRED
 REVIEW AS NOTED RESUBMISSION REQUIRED
 REVIEWED
 DATE: 1/15/15
 SIGNATURE: [Signature]
 REVIEW BY STANTEC IS FOR THE SOLE PURPOSE OF ASCERTAINING GENERAL CONFORMITY WITH DESIGN. CONTRACTOR IS RESPONSIBLE FOR DIMENSIONS, FABRICATION AND CONSTRUCTION METHODS, CONTRIBUTION OF SUB-TRADES, DETAIL DESIGN OF COMPONENTS, AND ERRORS OR OMISSIONS ON SHOP DRAWINGS.



TYPICAL CONNECTION PLATE WELD TERMINATION DETAIL
 N.T.S.



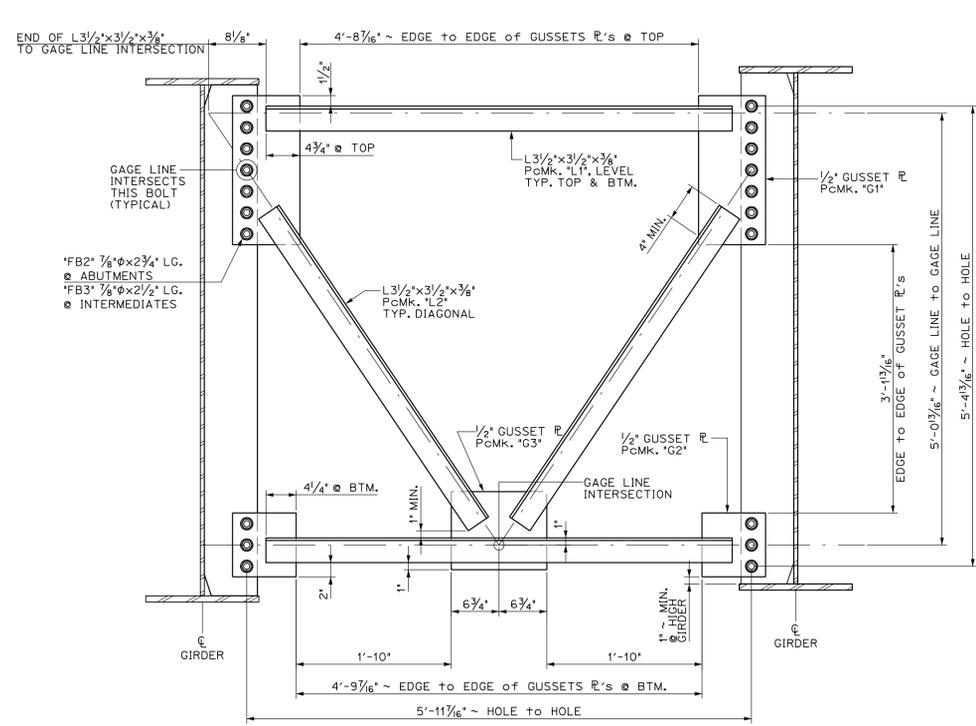
FLANGE THICKNESS TRANSITION
 SCALE: 3" = 1'-0"

PROJECT No. IM 089-2(43)
 ITEM No. 506.55

FINISH	SSPC SP6	NO.	DATE	DESCRIPTION	BY
MATERIAL	AASHTO M270 (ASTM A709) GRADE 50W				
HOLES	15/16" Ø U.N.O.				
ELECTRODES	PER WELD PROCEDURE				
WELDS	PER WELD PROCEDURE				
SURFACE PREP	SSPC SP6				

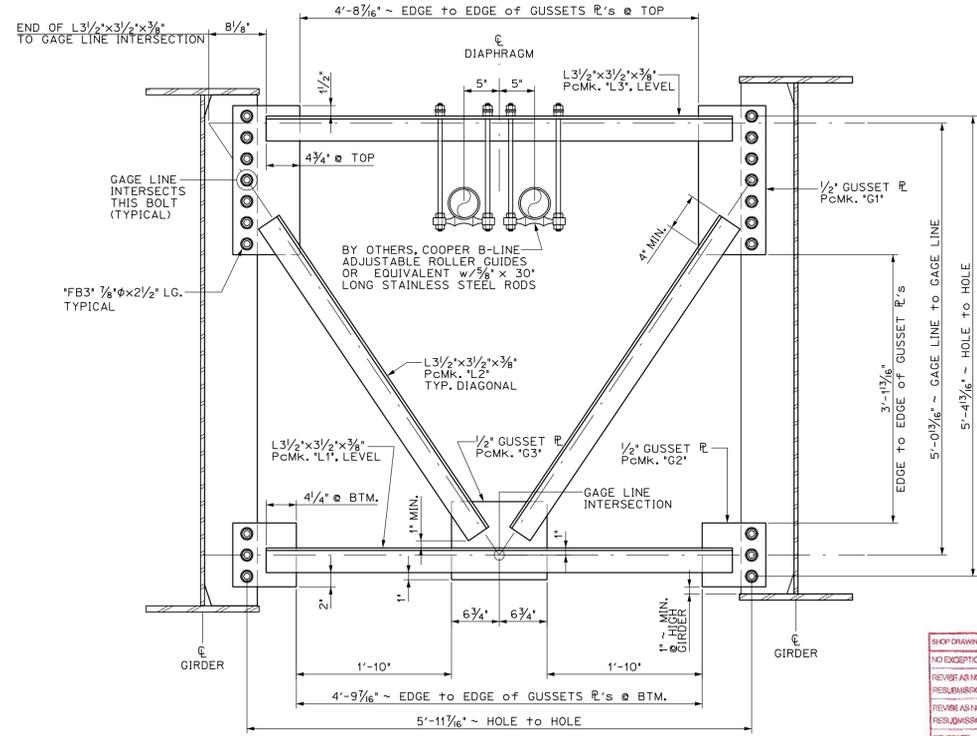
REVISIONS			
NO.	DATE	DESCRIPTION	BY

		ADVANCED RESOURCES & CONST. ENTERPRISES, INCORPORATED P.O. BOX 120 KINGFIELD, ME. 04947 PHONE: (207) 265-2646 - FAX: (207) 265-4054	
DRAFTER	JUH	MISCELLANEOUS DETAILS	PROJECT NO. 14-148
DATE	NOV. 2014	WATERBURY VT. BRIDGE 48A	DWG. NO. M2
CHECKED	DLM	1-89 EXIT RAMP over STOWE ST. & THATCHER BROOK	
DATE	NOV. 2014	BY: BECK & BELLUCCI	



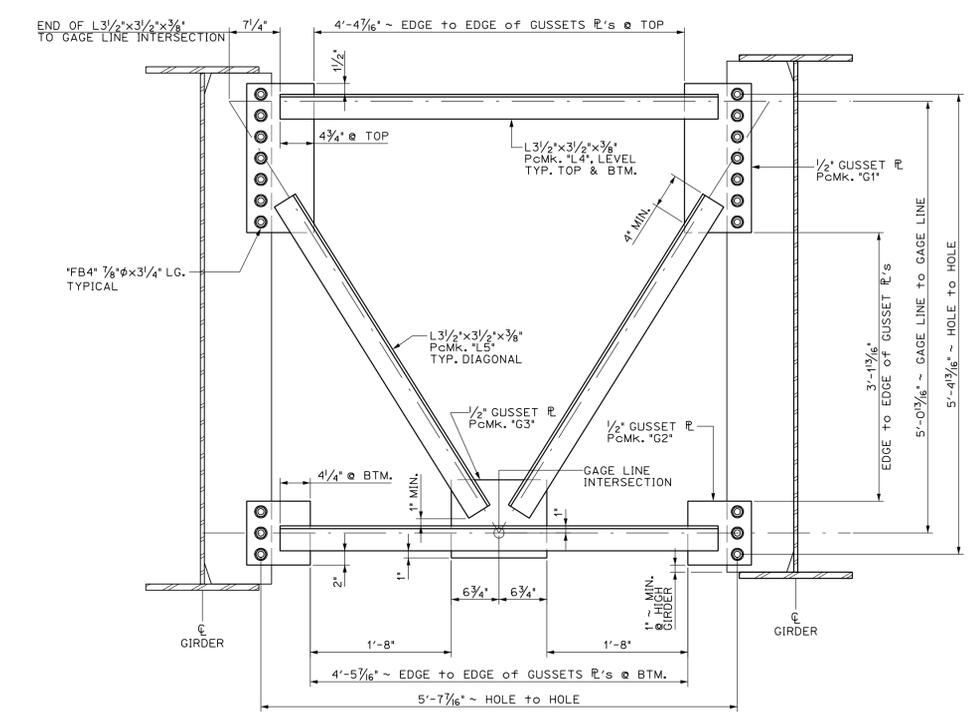
A "D1" TYPE DIAPHRAGMS

M3 SCALE: 1" = 1'-0"
(53) REQ'D TOTAL, (8) ABUTMENTS,
& (45) INTERMEDIATES



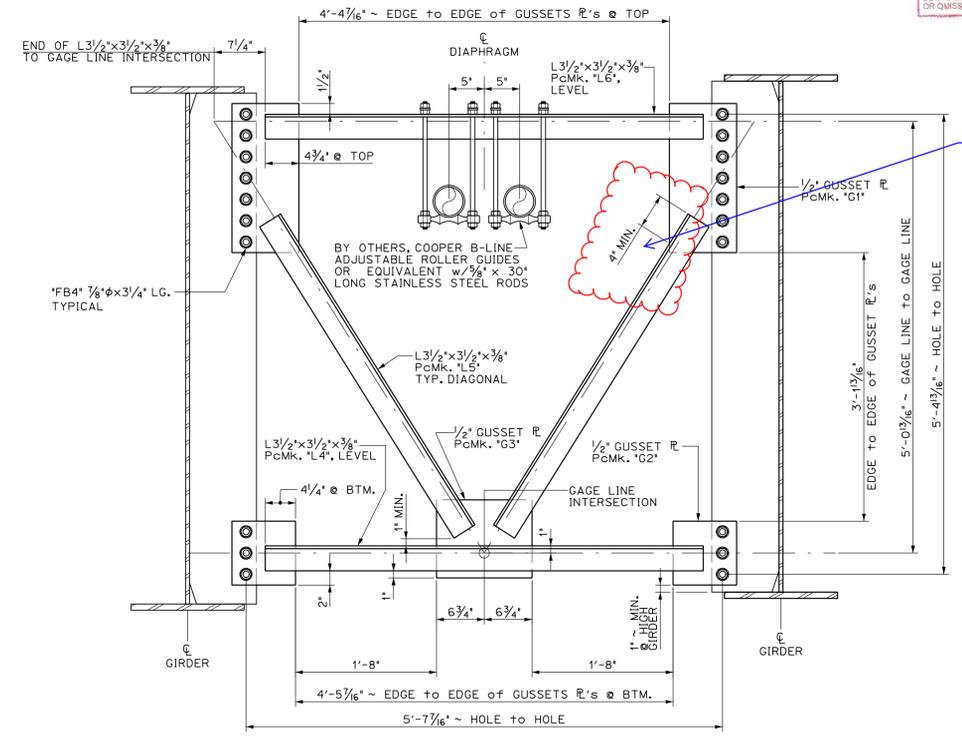
B "D2" TYPE DIAPHRAGMS

M3 SCALE: 1" = 1'-0"
(15) REQ'D TOTAL, (6) INTERMEDIATE LOCATIONS



C "D3" TYPE DIAPHRAGMS

M3 SCALE: 1" = 1'-0"
(6) REQ'D TOTAL @ PIERS



D "D4" TYPE DIAPHRAGMS

M3 SCALE: 1" = 1'-0"
(2) REQ'D TOTAL @ PIERS

SHIP DRAWINGS ARE REVIEWED UNLESS NOTED OTHERWISE

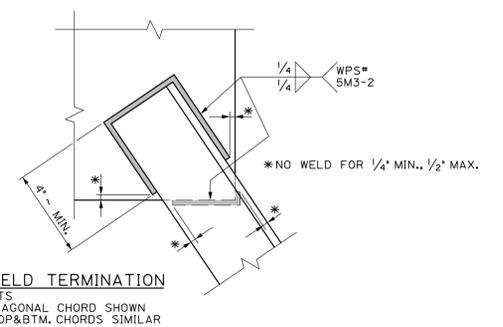
NO EXCEPTIONS	REVISIONS NOT REQUIRED	
REVISIONS REQUIRED	REVISIONS NOT REQUIRED	
REVISIONS REQUIRED	REVISIONS REQUIRED	
REVISIONS REQUIRED	REVISIONS REQUIRED	

DATE: 1/15/15

SIGNATURE: [Signature]

REVIEW BY STANTEC IS FOR THE SOLE PURPOSE OF ASCERTAINING GENERAL CONFORMITY WITH DESIGN. CONTRACTOR IS RESPONSIBLE FOR DIMENSIONS, FABRICATION AND CONSTRUCTION METHODS, COORDINATION OF SUB-PARTS, DETAIL DESIGN OF COMPONENTS, AND ERRORS OR OMISSIONS ON SHOP DRAWINGS.

Per Weld Termination Detail, this will have to be 4.25" minimum. Typical



BILL OF MATERIALS

SHIP MARK	NO. PCS.	PIECE MARK	DESCRIPTION	LENGTH	WEIGHT	MATERIAL
53	D1		INTERM. & ABUT. DIAPHRAGM		295# EACH	
		106	L1 L3/2"x3/2"x3/8"	5'-6"	50# EACH	
		106	L2 L3/2"x3/2"x3/8"	4'-5"	40# EACH	
		106	G1 R 1/2"x9/2"	1'-9"	30# EACH	
		106	G2 R 1/2"x9"	0'-9"	15# EACH	
		53	G3 R 1/2"x11"	1'-1 1/2"	25# EACH	
15	D2		INTERMEDIATE DIAPHRAGMS		295# EACH	
		15	L1 L3/2"x3/2"x3/8"	5'-6"	50# EACH	
		30	L2 L3/2"x3/2"x3/8"	4'-5"	40# EACH	
		15	L3 L3/2"x3/2"x3/8" w/UTILITY HOLES	5'-6"	50# EACH	
		30	G1 R 1/2"x9/2"	1'-9"	30# EACH	
		30	G2 R 1/2"x9"	0'-9"	15# EACH	
		15	G3 R 1/2"x11"	1'-1 1/2"	25# EACH	
6	D3		PIER DIAPHRAGMS		295# EACH	
		12	L4 L3/2"x3/2"x3/8"	5'-2"	50# EACH	
		12	L5 L3/2"x3/2"x3/8"	4'-3 3/4"	40# EACH	
		12	G1 R 1/2"x9/2"	1'-9"	30# EACH	
		12	G2 R 1/2"x9"	0'-9"	15# EACH	
		6	G3 R 1/2"x11"	1'-1 1/2"	25# EACH	
2	D4		PIER DIAPHRAGMS		295# EACH	
		2	L4 L3/2"x3/2"x3/8"	5'-2"	50# EACH	
		4	L5 L3/2"x3/2"x3/8"	4'-3 3/4"	40# EACH	
		2	L6 L3/2"x3/2"x3/8" w/UTILITY HOLES	5'-2"	50# EACH	
		4	G1 R 1/2"x9/2"	1'-9"	30# EACH	
		4	G2 R 1/2"x9"	0'-9"	15# EACH	
		2	G3 R 1/2"x11"	1'-1 1/2"	25# EACH	

PROJECT No. IM 089-2(43)
ITEM No. 506.55

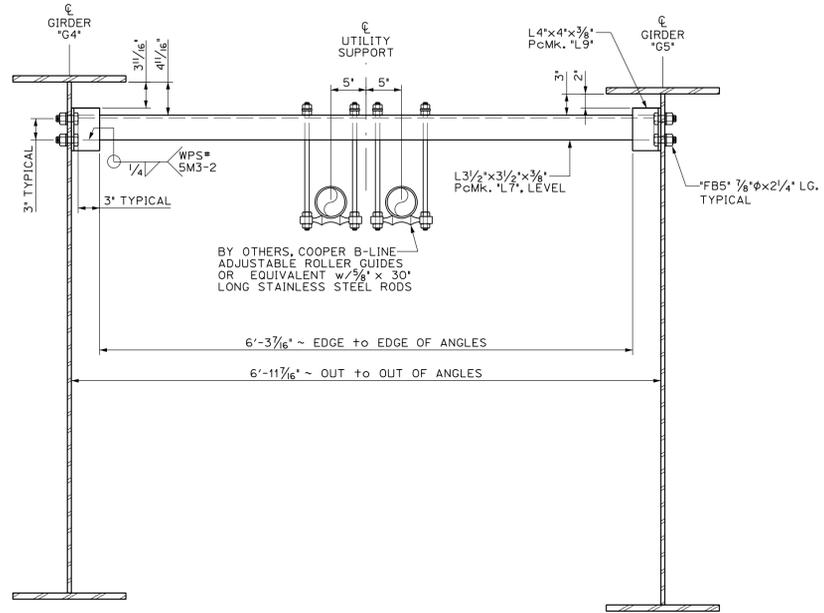
FINISH	SSPC SP6		
MATERIAL	AASHTO M270 (ASTM A709) GRADE 50W		
HOLES	15/16" Ø U.N.O.		
ELECTRODES	PER WELD PROCEDURE		
WELDS	PER WELD PROCEDURE		
SURFACE PREP	SSPC SP6		

NO.	DATE	DESCRIPTION	BY
REVISIONS			

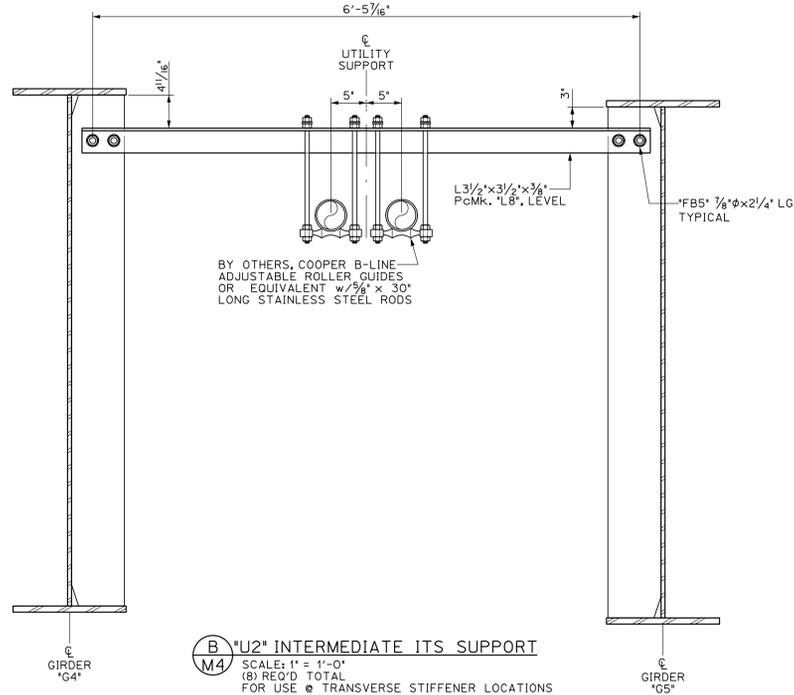
ARC
ENTERPRISES, INC.

ADVANCED RESOURCES & CONST. ENTERPRISES, INCORPORATED
P.O. BOX 120 KINGFIELD, ME. 04947
PHONE: (207) 265-2646 - FAX: (207) 265-4054

DRAFTER	JUH	DIAPHRAGM DETAILS	PROJECT NO. 14-148
DATE	NOV. 2014	WATERBURY VT. BRIDGE 48A	DWG. NO. M3
CHECKED	DLM	1-89 EXIT RAMP over STOWE ST. & THATCHER BROOK	
DATE	NOV. 2014	CC: BECK & BELLUCCI	

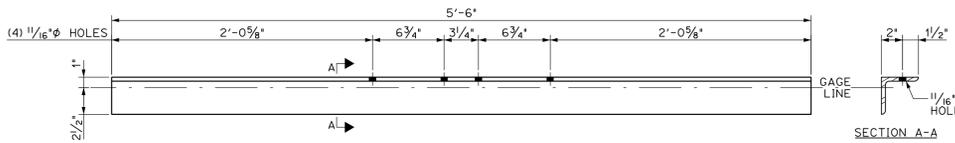


A "U1" INTERMEDIATE ITS SUPPORT
 SCALE: 1" = 1'-0"
 (10) REQ'D TOTAL

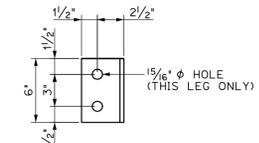


B "U2" INTERMEDIATE ITS SUPPORT
 SCALE: 1" = 1'-0"
 (8) REQ'D TOTAL
 FOR USE @ TRANSVERSE STIFFENER LOCATIONS

Verify weights

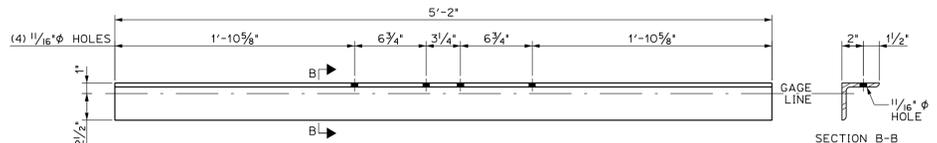


L3/2"x3/2"x3/8", Pcmk. "L3"
 SCALE: 1/2" = 1'-0"
 FOR USE ON "D2" TYPE DIAPHRAGMS

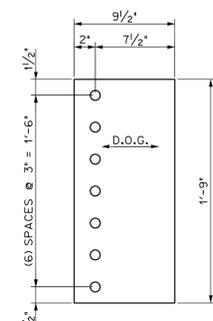


L4"x4"x3/8", Pcmk. "L9"
 SCALE: 1/2" = 1'-0"
 FOR USE ON "U1" TYPE SUPPORTS

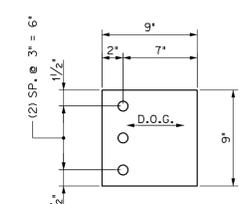
SHOP DRAWINGS ARE REVIEWED UNLESS NOTED OTHERWISE
 NO EXCEPTION TAKEN
 REVIEW AS NOTED
 RESUBMISSION NOT REQUIRED
 REVIEW AS NOTED
 RESUBMISSION REQUIRED
 REARCHIVED
 DATE: 1/15/15
 SIGNATURE: [Signature]
 REVIEW BY GRANTEE IS FOR THE SOLE PURPOSE OF ASCERTAINING GENERAL CONFORMITY WITH DESIGN. CONTRACTOR IS RESPONSIBLE FOR DIMENSIONS, FABRICATION AND CONSTRUCTION METHODS. COORDINATION OF SUB-TRADES, DETAIL DESIGN OF COMPONENTS AND ERRORS OR OMISSIONS ON SHOP DRAWINGS.



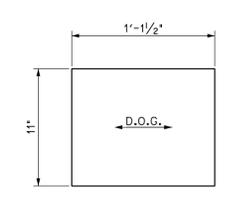
L3/2"x3/2"x3/8", Pcmk. "L6"
 SCALE: 1/2" = 1'-0"
 FOR USE ON "D4" TYPE DIAPHRAGMS



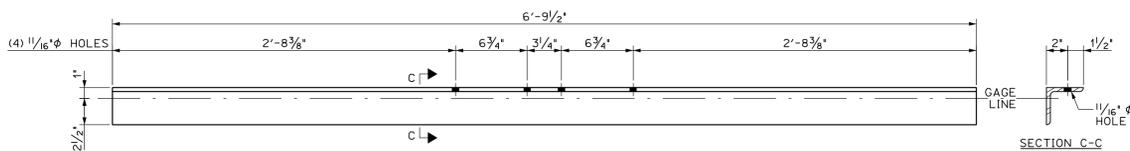
1/2" GUSSET PL, Pcmk. "G1"
 SCALE: 1/2" = 1'-0"



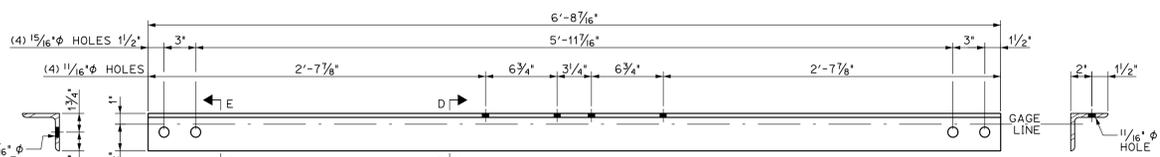
1/2" GUSSET PL, Pcmk. "G2"
 SCALE: 1/2" = 1'-0"



1/2" GUSSET PL, Pcmk. "G3"
 SCALE: 1/2" = 1'-0"



L3/2"x3/2"x3/8", Pcmk. "L7"
 SCALE: 1/2" = 1'-0"
 FOR USE ON "U1" TYPE SUPPORTS



L3/2"x3/2"x3/8", Pcmk. "L8"
 SCALE: 1/2" = 1'-0"
 FOR USE ON "U2" LOCATIONS

BILL OF MATERIALS						
SHIP MARK	NO. PCS.	PIECE MARK	DESCRIPTION	LENGTH	WEIGHT	MATERIAL
10	U1		INTERMEDIATE ITS SUPPORT		70# EACH	
	10	L7	L3/2"x3/2"x3/8"	6'-9 1/2"	60# EACH	
	20	L9	L4"x4"x3/8"	0'-6"	5# EACH	
8	U2		INTERMEDIATE ITS SUPPORT		60# EACH	
	8	L8	L3/2"x3/2"x3/8"	6'-8 1/8"	60# EACH	
121	**L1		L3/2"x3/2"x3/8"	5'-6"	50# EACH	
136	**L2		L3/2"x3/2"x3/8"	4'-5"	40# EACH	
15	L3		L3/2"x3/2"x3/8" w/UTILITY HOLES	5'-6"	50# EACH	
14	**L4		L3/2"x3/2"x3/8"	5'-2"	50# EACH	
16	**L5		L3/2"x3/2"x3/8"	4'-3 1/4"	40# EACH	
2	L6		L3/2"x3/2"x3/8" w/UTILITY HOLES	5'-2"	50# EACH	
10	L7		L3/2"x3/2"x3/8"	6'-9 1/2"	60# EACH	
8	L8		L3/2"x3/2"x3/8"	6'-8 1/8"	60# EACH	
20	L9		L4"x4"x3/8"	0'-6"	5# EACH	
152	G1		1/2"x9/2"	1'-9"	30# EACH	
152	G2		1/2"x9"	0'-9"	15# EACH	
76	G3		1/2"x11"	1'-1 1/2"	25# EACH	

NOTE: PIECES MARKED WITH A DOUBLE ASTERISK (**) IN THIS BILL OF MATERIAL HAVE BEEN INCLUDED FOR QUANTITY PURPOSES ONLY. NO INDIVIDUAL PIECE MARK DETAIL HAS BEEN INCLUDED, THE MATERIAL IS JUST TO BE CUT TO THE DIMENSIONS SHOWN.

PROJECT No. IM 089-2(43)
 ITEM No. 506.55

FINISH	SSPC SP6
MATERIAL	AASHTO M270 (ASTM A709) GRADE 50W
HOLES	15/16" Ø U.N.O.
ELECTRODES	PER WELD PROCEDURE
WELDS	PER WELD PROCEDURE
SURFACE PREP	SSPC SP6

NO.	DATE	DESCRIPTION	BY
REVISIONS			

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 PHONE: (207) 265-2646 - FAX: (207) 265-4054

DRAFTER	JUH	UTILITIES & MISC. PIECE MARK DETAILS	PROJECT NO. 14-148
DATE	NOV. 2014	WATERBURY VT. BRIDGE 48A	DWG. NO.
CHECKED	DLM	I-89 EXIT RAMP over STOWE ST. & THATCHER BROOK	M4
DATE	NOV. 2014	CC: BECK & BELLUCCI	