



STATE OF MAINE  
DEPARTMENT OF TRANSPORTATION  
16 STATE HOUSE STATION  
AUGUSTA, MAINE 04333-0016

Paul R. LePage  
GOVERNOR

David Bernhardt  
COMMISSIONER

December 19, 2017  
Subject: Centre Street Connection  
Bridge Replacement & Sidewalk  
Construction  
State WINs: 018725.00 & 018725.10  
Location: **Bath**  
**Amendment No. 1**

Dear Sir/Ms.:

Please make the following changes to the Bid Documents:

In the Bid Book:

On page 14, Notice to Contractors, **CHANGE** the Bid Opening date from December 20, 2017 to read, "**January 3, 2018.**" Make this change in pen and ink.

**REMOVE** pages 16 – 23, Proposal Schedule of Items, 8 pages, dated 11/28/2017, and **REPLACE** with the attached, revised Proposal Schedule of Items, 8 pages, dated 12/18/2017.

**REMOVE** page 57, SPECIAL PROVISION - SECTION 107 – TIME - (Supplemental Liquidated Damages), 1 page, dated November 13, 2017, and **REPLACE** with the attached, revised SPECIAL PROVISION - SECTION 107 – TIME - (Supplemental Liquidated Damages), 1 page, dated December 15, 2017.

In the Plan Set:

**REMOVE** SHEET NUMBER 2 of 53, ESTIMATED QUANTITIES, and **REPLACE** with the attached, revised SHEET NUMBER 2 of 53, ESTIMATED QUANTITIES.

**REMOVE** SHEET NUMBER 5 of 53, GENERAL PLAN, and **REPLACE** with the attached, revised SHEET NUMBER 5 of 53, GENERAL PLAN.

**REMOVE** SHEET NUMBER 33 of 53, SUPERSTRUCTURE PLAN, and **REPLACE** with the attached, revised SHEET NUMBER 33 of 53, SUPERSTRUCTURE PLAN.

**REMOVE** SHEET NUMBER 39 of 53, PRECAST PANEL DETAILS, and **REPLACE** with the attached, revised SHEET NUMBER 39 of 53, PRECAST PANEL DETAILS.



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**REMOVE** SHEET NUMBER 46 of 53, SNOW FENCE, and **REPLACE** with the attached, revised SHEET NUMBER 46 of 53, SNOW FENCE.

**REMOVE** SHEET NUMBER 47 & 48 of 53, SIGN PANELS, and **REPLACE** with the attached, revised SHEET NUMBER 47 & 48 of 53, SIGN PANELS.

**REMOVE** SHEET NUMBER 49 of 53, REINFORCING STEEL SCHEDULE, and **REPLACE** with the attached, revised SHEET NUMBER 49 of 53, REINFORCING STEEL SCHEDULE.

The following questions have been received:

**Question:** SP107 allows 14 total lane closure periods on route 1 and provides allowable times for those closures. With the 2-phase nature of the project and the required work over route 1, 14 lane closure periods is not adequate. At a minimum, lane closures will be required for the following to avoid hazards over live traffic:

Protective Shield installation – 1 lane closure per lane minimum = 4  
Demolition – 2 lane closures per lane minimum (1 closure per phase) = 8  
Precast Erection - 2 lane closures per lane minimum (1 closure per phase) = 8  
Formwork Stripping - 2 lane closures per lane minimum (1 closure per phase) = 8  
Protective Coating - 1 lane closure per lane minimum = 4

Given lane closure periods are allowable for certain hours during the day and certain hours during the night, would the department allow more lane closure periods during either the day or night to accommodate the work to be completed safely without causing hazards the traveling public?

**Response:** Please see the attached, revised SPECIAL PROVISION - SECTION 107 – TIME - (Supplemental Liquidated Damages), for clarification on U.S. Route 1 lane closure periods.

**Question:** Would the Department consider increasing the number of allowable nighttime lane closures? We understand the traffic impacts for BIW commuter traffic during the morning and afternoon rush hours, but don't understand the restrictions during the nighttime. In our analysis below we failed to mention lane closures will be required for removal and installation of the (2) bridge mounted sign structures as well.

**Response:** Please see the attached, 2<sup>nd</sup> revision to SPECIAL PROVISION - SECTION 107 – TIME - (Supplemental Liquidated Damages), for clarification on U.S. Route 1 lane closure periods.

**Question:** Where is reinforcing for UHPC placements paid for?

**Response:** The reinforcement in the UHPC placements shall be paid for under items 503.12 & 503.13. Please see revised sheets 2 and 49 for clarification.

**Question:** Where is reinforcing for the sidewalk and curb on the bridge deck paid for, 502.49 or 534.7609 or other?

**Response:** The curb and sidewalk reinforcement cast into the full depth precast panels shall be incidental to item 534.7609.

**Question:** Will pre-casting curb on bridge change the payment location for curb concrete & reinforcing?

**Response:** Any scheduled curb reinforcement that becomes part of the precast operation will be considered incidental to item 534.7609, and their quantities removed from items 503.12 and 503.13.

**Question:** Several QTY's and Units don't match between the bid book and sheet 2 of the plans. For items 506.144, 506.170, 506.180 & 506.191, the bid book shows these paid as 1 LS and plan sheet shows them paid by LBS

For 515.20 the bid book shows this paid 315 SY and the plan sheet shows it paid 1 LS

For 606.23 the bid book and plan sheet quantity differ slightly.

For 627.733 the bid book and plan sheet quantity differ.

For 652.361 the bid book shows 1 LS and plan sheet shows 120 LS.

**Response:** Please see the updated Schedule of Items and the revised Plan Sheet #2, Estimated Quantities.

**Question:** Is there any restriction on traffic travelling on adjacent half of bridge while placing UHPC in closure on Girder B3?


**Response:** There will be no restriction to traffic traveling on the adjacent half of the bridge.

**Question:** Are stud pockets and haunches required to be placed (UHPC) before the transverse joints or some other sequence? If so, is this based on UHPC strength gain in the haunches and what strength is required?

**Response:** Stud pockets and haunches shall be placed prior to transverse and longitudinal panel joints. Please see revised sheet 39 for clarification. UHPC placements shall meet the requirements of Standard Specification Subsection 502.09 D. Removal of Forms and False work, Special Provision 502 – Ultra High Performance Concrete, and note 13 of the revised Plan sheet 39.

Consider these changes and information prior to submitting your bid on **January 3, 2017**.

Sincerely,



George M. A. Macdougall P.E.  
Contracts & Specifications Engineer

Maine Department of Transportation

Proposal Schedule of Items

Proposal ID: 018725.00

Project(s): 018725.00, 018725.10

SECTION: 1 PROJECT ITEMS

Alt Set ID: Alt Mbr ID:

Contractor: \_\_\_\_\_

Proposal Line Number	Item ID Description	Approximate Quantity and Units	Unit Price		Bid Amount	
			Dollars	Cents	Dollars	Cents
0010	202.10 REMOVING EXISTING SUPERSTRUCTURE (PROPERTY OF CONTRACTOR)	LUMP SUM	LUMP SUM			
0020	202.17 REMOVING EXISTING STRUCTURAL CONCRETE	LUMP SUM	LUMP SUM			
0030	202.202 REMOVING PAVEMENT SURFACE	1,130.000 SY				
0040	203.20 COMMON EXCAVATION	570.000 CY				
0050	203.21 ROCK EXCAVATION	30.000 CY				
0060	203.24 COMMON BORROW	260.000 CY				
0070	206.082 STRUCTURAL EARTH EXCAVATION - MAJOR STRUCTURES	15.000 CY				
0080	304.10 AGGREGATE SUBBASE COURSE - GRAVEL	610.000 CY				
0090	403.208 HOT MIX ASPHALT 12.5 MM HMA SURFACE	16.000 T				
0100	403.2081 12.5 MM POLYMER MODIFIED HOT MIX ASPHALT	155.000 T				
0110	403.209 HOT MIX ASPHALT 9.5 MM (SIDEWALKS, DRIVES, INCIDENTALS)	125.000 T				

Maine Department of Transportation

Proposal Schedule of Items

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Project(s): 018725.00, 018725.10

SECTION: 1 PROJECT ITEMS

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Contractor: \_\_\_\_\_

Proposal Line Number	Item ID Description	Approximate Quantity and Units	Unit Price		Bid Amount	
			Dollars	Cents	Dollars	Cents
0120	403.211 HOT MIX ASPHALT (SHIMMING)	35.000 T	_____	 _____	_____	 _____
0130	403.213 HOT MIX ASPHALT 12.5 MM BASE	70.000 T	_____	 _____	_____	 _____
0140	403.2131 12.5 MM POLYMER MODIFIED HMA BASE	75.000 T	_____	 _____	_____	 _____
0150	409.15 BITUMINOUS TACK COAT - APPLIED	135.000 G	_____	 _____	_____	 _____
0160	502.219 STRUCTURAL CONCRETE, ABUTMENTS AND RETAINING WALLS	LUMP SUM	_____	 LUMP SUM	_____	 _____
0170	502.49 STRUCTURAL CONCRETE CURBS AND SIDEWALKS	LUMP SUM	_____	 LUMP SUM	_____	 _____
0180	502.70 BRIDGE DRAINS	6.000 EA	_____	 _____	_____	 _____
0190	503.12 REINFORCING STEEL, FABRICATED AND DELIVERED	10,600.000 LB	_____	 _____	_____	 _____
0200	503.13 REINFORCING STEEL, PLACING	10,600.000 LB	_____	 _____	_____	 _____
0210	503.17 MECHANICAL WELDED SPLICE	8.000 EA	_____	 _____	_____	 _____
0220	504.701 STRUCTURAL STEEL FABRICATED AND DELIVERED, ROLLED	LUMP SUM	_____	 LUMP SUM	_____	 _____
0230	504.71 STRUCTURAL STEEL ERECTION	LUMP SUM	_____	 LUMP SUM	_____	 _____

Maine Department of Transportation

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Alt Set ID: Alt Mbr ID:

Contractor: \_\_\_\_\_

Proposal Line Number	Item ID Description	Approximate Quantity and Units	Unit Price		Bid Amount	
			Dollars	Cents	Dollars	Cents
0240	505.08 SHEAR CONNECTORS	LUMP SUM	LUMP	SUM	_____	_____
0250	506.144 FIELD PAINTING NEW AND EXISTING STRUCTURAL STEEL	LUMP SUM	LUMP	SUM	_____	_____
0260	506.17 SURFACE PREPARATION OF EXISTING STRUCTURAL STEEL	LUMP SUM	LUMP	SUM	_____	_____
0270	506.18 CONTAINMENT AND POLLUTION CONTROL	LUMP SUM	LUMP	SUM	_____	_____
0280	506.191 DISPOSAL OF SPECIAL WASTE OR HAZARDOUS WASTE MATERIAL	LUMP SUM	LUMP	SUM	_____	_____
0290	507.0821 STEEL BRIDGE RAILING, 3 BAR	LUMP SUM	LUMP	SUM	_____	_____
0300	507.0831 STEEL BRIDGE RAILING, 4 BAR	LUMP SUM	LUMP	SUM	_____	_____
0310	508.14 HIGH PERFORMANCE WATERPROOFING MEMBRANE	LUMP SUM	LUMP	SUM	_____	_____
0320	514.06 CURING BOX FOR CONCRETE CYLINDERS	1.000 EA	_____	_____	_____	_____
0330	515.21 PROTECTIVE COATING FOR CONCRETE SURFACES	LUMP SUM	LUMP	SUM	_____	_____
0340	520.232 EXPANSION DEVICE - ASPHALTIC PLUG JOINT	54.000 LF	_____	_____	_____	_____

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Proposal Line Number	Item ID Description	Approximate Quantity and Units	Unit Price		Bid Amount	
			Dollars	Cents	Dollars	Cents
0350	524.40 PROTECTIVE SHIELD	LUMP SUM	LUMP	SUM	_____	_____
0360	526.301 TEMPORARY CONCRETE BARRIER TYPE I	LUMP SUM	LUMP	SUM	_____	_____
0370	526.304 TEMPORARY CONCRETE BARRIER, ANCHORED	LUMP SUM	LUMP	SUM	_____	_____
0380	526.3401 PERMANENT CONCRETE TRANSITION BARRIER - MODIFIED	4.000 EA	_____	_____	_____	_____
0390	527.34 WORK ZONE CRASH CUSHIONS	2.000 UN	_____	_____	_____	_____
0400	534.7609 FULL DEPTH PRECAST CONCRETE DECK PANELS	LUMP SUM	LUMP	SUM	_____	_____
0410	603.16 15 INCH CULVERT PIPE OPTION I	24.000 LF	_____	_____	_____	_____
0420	604.072 CATCH BASIN TYPE A1-C	1.000 EA	_____	_____	_____	_____
0430	604.18 ADJUSTING MANHOLE OR CATCH BASIN TO GRADE	1.000 EA	_____	_____	_____	_____
0440	606.1721 BRIDGE TRANSITION - TYPE 1	4.000 EA	_____	_____	_____	_____
0450	606.23 GUARDRAIL TYPE 3C - SINGLE RAIL	225.000 LF	_____	_____	_____	_____
0460	606.232 GUARDRAIL TYPE 3C - OVER 15 FOOT RADIUS	75.000 LF	_____	_____	_____	_____

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Proposal Line Number	Item ID Description	Approximate Quantity and Units	Unit Price		Bid Amount	
			Dollars	Cents	Dollars	Cents
0470	606.265 TERMINAL END - SINGLE RAIL - GALVANIZED STEEL	1.000 EA	_____	 _____	_____	 _____
0480	606.353 REFLECTORIZED FLEXIBLE GUARDRAIL MARKER	8.000 EA	_____	 _____	_____	 _____
0490	606.365 GUARDRAIL REMOVE, MODIFY, AND RESET TYPE 3B TO 3C	175.000 LF	_____	 _____	_____	 _____
0500	606.367 REPLACE UNUSABLE EXISTING GUARDRAIL POSTS	5.000 EA	_____	 _____	_____	 _____
0510	606.79 GUARDRAIL 350 FLARED TERMINAL	3.000 EA	_____	 _____	_____	 _____
0520	607.184 CHAIN LINK SNOW FENCE 3 FOOT	240.000 LF	_____	 _____	_____	 _____
0530	609.11 VERTICAL CURB TYPE 1	555.000 LF	_____	 _____	_____	 _____
0540	609.12 VERTICAL CURB TYPE 1 - CIRCULAR	40.000 LF	_____	 _____	_____	 _____
0550	609.23 TERMINAL CURB TYPE 1	11.000 EA	_____	 _____	_____	 _____
0560	609.38 RESET CURB TYPE 1	525.000 LF	_____	 _____	_____	 _____
0570	610.18 STONE DITCH PROTECTION	25.000 CY	_____	 _____	_____	 _____
0580	615.07 LOAM	95.000 CY	_____	 _____	_____	 _____

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Proposal Line Number	Item ID Description	Approximate Quantity and Units	Unit Price		Bid Amount	
			Dollars	Cents	Dollars	Cents
0590	618.14 SEEDING METHOD NUMBER 2	15.000 UN	_____	_____	_____	_____
0600	619.12 MULCH	15.000 UN	_____	_____	_____	_____
0610	619.14 EROSION CONTROL MIX	265.000 CY	_____	_____	_____	_____
0620	620.58 EROSION CONTROL GEOTEXTILE	70.000 SY	_____	_____	_____	_____
0630	626.341 LIGHT STANDARD FOUNDATION	3.000 EA	_____	_____	_____	_____
0640	627.733 4" WHITE OR YELLOW PAINTED PAVEMENT MARKING LINE	2,325.000 LF	_____	_____	_____	_____
0650	629.05 HAND LABOR, STRAIGHT TIME	40.000 HR	_____	_____	_____	_____
0660	631.12 ALL PURPOSE EXCAVATOR (INCLUDING OPERATOR)	15.000 HR	_____	_____	_____	_____
0670	631.172 TRUCK - LARGE (INCLUDING OPERATOR)	15.000 HR	_____	_____	_____	_____
0680	634.208 REMOVE AND RESET LIGHT STANDARDS	3.000 EA	_____	_____	_____	_____
0690	634.25 SERVICE POLE COMPLETE WITH CABINET AND CONTROLS	1.000 EA	_____	_____	_____	_____
0700	637.071 DUST CONTROL	LUMP SUM	_____	LUMP SUM	_____	_____

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Contractor: \_\_\_\_\_

Proposal Line Number	Item ID Description	Approximate Quantity and Units	Unit Price		Bid Amount	
			Dollars	Cents	Dollars	Cents
0710	639.19 FIELD OFFICE TYPE B	1.000 EA	_____	 _____	_____	 _____
0720	645.106 DEMOUNT REGULATORY, WARNING, CONFIRMATION AND ROUTE MARKER ASSEMBLY SIGN	13.000 EA	_____	 _____	_____	 _____
0730	645.116 REINSTALL REGULATORY, WARNING, CONFIRMATION AND ROUTE MARKER ASSEMBLY SIGN	13.000 EA	_____	 _____	_____	 _____
0740	645.13 GUIDE SIGN - OVERPASS MOUNTED CENTRE ST	LUMP SUM		 LUMP SUM	_____	 _____
0750	652.30 FLASHING ARROW BOARD	2.000 EA	_____	 _____	_____	 _____
0760	652.312 TYPE III BARRICADE	1.000 EA	_____	 _____	_____	 _____
0770	652.33 DRUM	70.000 EA	_____	 _____	_____	 _____
0780	652.34 CONE	70.000 EA	_____	 _____	_____	 _____
0790	652.35 CONSTRUCTION SIGNS	700.000 SF	_____	 _____	_____	 _____
0800	652.361 MAINTENANCE OF TRAFFIC CONTROL DEVICES	LUMP SUM		 LUMP SUM	_____	 _____
0810	652.38 FLAGGER	200.000 HR	_____	 _____	_____	 _____

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Contractor: \_\_\_\_\_

Proposal Line Number	Item ID Description	Approximate Quantity and Units	Unit Price		Bid Amount	
			Dollars	Cents	Dollars	Cents
0820	652.41 PORTABLE CHANGEABLE MESSAGE SIGN	3.000 EA	_____	 _____	_____	 _____
0830	656.75 TEMPORARY SOIL EROSION AND WATER POLLUTION CONTROL	LUMP SUM	LUMP	 SUM	_____	 _____
0840	659.10 MOBILIZATION	LUMP SUM	LUMP	 SUM	_____	 _____
<b>Section: 1</b>			<b>Total:</b>		_____	 _____
			<b>Total Bid:</b>		_____	 _____

**SPECIAL PROVISION**

**SECTION 107**

**TIME**

(Supplemental Liquidated Damages)

The following is added to the Standard Specifications in accordance with Subsection 107.8 Supplemental Liquidated Damages:

**US Route 1**

The Contractor may close one through lane in each direction on U.S. Route 1 at a time with the approval of the Resident. Allowable U.S. Route 1 lane closure periods are overnight from 9:00 PM to 5:00 AM and Monday through Friday between the daylight hours of 9:00 AM and 2:45 PM. A maximum of 14 (fourteen) of the daylight lane closure periods above are permitted. There is no limitation to the number of overnight lane closures periods allowed on U.S. Route 1. If U.S. Route 1 lane closures continue outside of the hours listed above, the Contractor shall be assessed a lane closure penalty at the rate of five hundred dollars (\$500.00) per hour, for each additional hour that the lane remains closed to traffic. The lane closure penalty for the first and subsequent hours is assessed when the lane closure extends at least five (5) minutes outside of the closure hours indicated above. The Contractor shall notify the Resident a minimum of ten (10) Calendar Days in advance of all lane closures on U.S. Route 1.

A lane closure period is defined as time ranges, not the number of lane closures within that time range. The lane closed within a lane closure period may be changed from the right-hand lane to the left-hand lane (or similar) during the period, as long as one lane in each direction is maintained at all times.

**For Example:** if the Contractor installs temporary shielding over all 4 lanes of U.S. Route 1 traffic using lane closures during daylight closure period hours from 9:00 AM to 2:45 AM, only 1 (one) lane closure period would be considered used.

These assessments of supplemental liquidated damages will be in addition to the liquidated damages specified in Section 107 of the Standard Specifications.

ESTIMATED QUANTITIES					
ITEM NO.	DESCRIPTION	WIN 18725.00	WIN 18725.10	QUANTITY	UNIT
202.10	REMOVING EXISTING SUPERSTRUCTURE (PROPERTY OF CONTRACTOR) (209 CY)	1	--	1	LS
202.17	REMOVING EXISTING STRUCTURAL CONCRETE (33 CY)	1	--	1	LS
202.202	REMOVING PAVEMENT SURFACE	1130	--	1130	SY
203.20	COMMON EXCAVATION	300	270	570	CY
203.21	ROCK EXCAVATION	25	5	30	CY
203.24	COMMON BORROW	175	85	260	CY
206.082	STRUCTURAL EARTH EXCAVATION - MAJOR STRUCTURES	15	--	15	CY
304.10	AGGREGATE SUBBASE COURSE - GRAVEL	360	250	610	CY
403.208	HOT MIX ASPHALT 12.5 MM HMA SURFACE	1	15	16	T
403.2081	12.5 MM POLYMER MODIFIED HOT MIX ASPHALT	155	--	155	T
403.209	HOT MIX ASPHALT 9.5 MM (SIDEWALKS, DRIVES, ISLANDS, & INCIDENTALS)	50	75	125	T
403.211	HOT MIX ASPHALT (SHIMMING)	35	--	35	T
403.213	HOT MIX ASPHALT 12.5 MM BASE	25	45	70	T
403.2131	12.5 MM POLYMER MODIFIED HMA BASE	75	--	75	T
409.15	BITUMINOUS TACK COAT - APPLIED	100	35	135	G
502.219	STRUCTURAL CONCRETE, ABUTMENTS AND RETAINING WALLS (22 CY)	1	--	1	LS
502.49	STRUCTURAL CONCRETE CURBS AND SIDEWALKS (65 CY)	1	--	1	LS
502.70	BRIDGE DRAINS - TYPE B	6	--	6	LS Δ
503.12	REINFORCING STEEL, FABRICATED AND DELIVERED	10,600 Δ	--	10,600 Δ	LB
503.13	REINFORCING STEEL, PLACING	10,600 Δ	--	10,600 Δ	LB
503.17	MECHANICAL / WELDED SPLICE	8	--	8	EA
504.701	STRUCTURAL STEEL FABRICATED AND DELIVERED, ROLLED (1275 LB)	1	--	1	LS
504.71	STRUCTURAL STEEL ERECTION (1275 LB)	1	--	1	LS
505.08	SHEAR CONNECTORS (2620 EA)	1	--	1	LS
506.144	FIELD PAINTING NEW AND EXISTING STRUCTURAL STEEL (2900 LB)	1	--	1	LS Δ
506.17	SURFACE PREPARATION OF EXISTING STRUCTURAL STEEL (1600 LB)	1	--	1	LS Δ
506.18	CONTAINMENT AND POLLUTION CONTROL (2900 LB)	1	--	1	LS Δ
506.191	DISPOSAL OF SPECIAL WASTE OR HAZARDOUS WASTE MATERIAL (1600 LB)	1	--	1	LS Δ
507.0821	STEEL BRIDGE RAILING, 3 BAR (223 LF)	1	--	1	LS
507.0831	STEEL BRIDGE RAILING, 4 BAR (203 LF)	1	--	1	LS
508.14	HIGH PERFORMANCE WATERPROOFING MEMBRANE (590 SY)	1	--	1	LS
514.06	CURING BOX FOR CONCRETE CYLINDERS	1	--	1	EA
515.21Δ	PROTECTIVE COATING FOR CONCRETE SURFACES (315 SY)	1	--	1	LS
520.232	EXPANSION DEVICE - ASPHALTIC PLUG JOINT	54	--	54	LF
524.40	PROTECTIVE SHIELD	1	--	1	LS
526.301	TEMPORARY CONCRETE BARRIER TYPE 1 (220 LF)	1	--	1	LS
526.304	TEMPORARY CONCRETE BARRIER, ANCHORED (180 LF)	1	--	1	LS
526.3401	PERMANENT CONCRETE TRANSITION BARRIER - MODIFIED	4	--	4	EA
527.34	WORK ZONE CRASH CUSHIONS	2	--	2	UN
534.7609	FULL DEPTH PRECAST CONCRETE DECK PANELS (703 SY)	1	--	1	LS
603.16	15' CULVERT PIPE OPTION 1	24	--	24	LF
604.072	CATCH BASIN TYPE A1-C	1	--	1	EA
604.18	ADJUST AND ALTER CATCH BASIN TO LINE AND GRADE	--	1	1	EA
606.1721	BRIDGE TRANSITION - TYPE 1	4	--	4	EA
606.23	GUARDRAIL TYPE 3C - SINGLE RAIL	225	--	225	LF
606.232	GUARDRAIL TYPE 3C - OVER 15 FT. RADIUS	75	--	75	LF
606.265	TERMINAL END - SINGLE RAIL - GALVANIZED STEEL	1	--	1	EA
606.353	REFLECTORIZED FLEXIBLE GUARDRAIL MARKER	8	--	8	EA
606.365	GUARDRAIL, REMOVE, MODIFY AND RESET, TYPE 3b to 3c	--	175	175	LF
606.367	REPLACE UNUSABLE EXISTING GUARDRAIL POSTS	--	5	5	EA
606.79	GUARDRAIL 350 FLARED TERMINAL	3	--	3	EA

ESTIMATED QUANTITIES					
ITEM NO.	DESCRIPTION	WIN 18725.00	WIN 18725.10	QUANTITY	UNIT
607.184	CHAIN LINK SNOW FENCE - 3 FOOT	240	--	240	LF
609.11	VERTICAL CURB TYPE 1	200	355	555	LF
609.12	VERTICAL CURB TYPE 1 - CIRCULAR	10	30	40	LF
609.23	TERMINAL CURB TYPE 1	3	8	11	EA
609.38	RESET CURB TYPE 1	225	300	525	LF
610.18	STONE DITCH PROTECTION	10	15	25	CY
615.07	LOAM	50	45	95	CY
618.14	SEEDING METHOD NUMBER 2	8	7	15	UN
619.12	MULCH	8	7	15	UN
619.14	EROSION CONTROL MIX	95	85	180	CY
620.58	EROSION CONTROL GEOTEXTILE	15	55	70	SY
626.341	LIGHT STANDARD FOUNDATION	2	1	3	EA
627.733	4" WHITE OR YELLOW PAINTED PAVEMENT MARKING LINE	1600	725	2325	LF
629.05	HAND LABOR, STRAIGHT TIME	30	10	40	HR
631.12	ALL PURPOSE EXCAVATOR (INCLUDING OPERATOR)	10	5	15	HR
631.172	TRUCK - LARGE (INCLUDING OPERATOR)	10	5	15	HR
634.208	REMOVE AND RESET LIGHT STANDARDS	2	1	3	EA
634.25	SERVICE POLE COMPLETE WITH CABINET AND CONTROLS	1	--	1	EA
637.071	DUST CONTROL	0.5	0.5	1	LS
639.19	FIELD OFFICE TYPE B	1	--	1	EA
645.106	DEMOUNT REGULATORY, WARNING, CONF. AND RTE. MARKER ASSEMBLY SIGN	5	8	13	EA
645.116	REINSTALL REGULATORY, WARNING, CONF. AND RTE. MARKER ASSEMBLY SIGN	5	8	13	EA
645.13	GUIDE SIGN - OVERPASS MOUNTED	1	--	1	LS
652.30	FLASHING ARROW BOARD	2	--	2	EA
652.312	TYPE III BARRICADE	1	--	1	EA
652.33	DRUM	50	20	70	EA
652.34	CONE	50	20	70	EA
652.35	CONSTRUCTION SIGNS	600	100	700	SF
652.361	MAINTENANCE OF TRAFFIC CONTROL DEVICES Δ (120 CD)	0.667 Δ	0.333 Δ	1	LS
652.38	FLAGGER	100	100	200	HR
652.41	PORTABLE CHANGEABLE MESSAGE SIGN	3	--	3	EA
656.75	TEMPORARY SOIL EROSION AND WATER POLLUTION CONTROL	1	--	1	LS
659.10	MOBILIZATION	0.667	0.333 Δ	1	LS

STATE OF MAINE DEPARTMENT OF TRANSPORTATION <b>STP-1872(500)</b> WIN BRIDGE NO. 6142 18725.00 & 18725.10 BRIDGE PLANS	DATE Oct 2017 Nov 2017	BY D. Dornen WSP	SIGNATURE	P.E. NUMBER	DATE	
	DESIGN-DETAILED D. Eaton WSP	CHECKED-REVIEWED WSP	DESIGN-DETAILED WSP	REVISIONS 1	REVISIONS 2	REVISIONS 3
	REVISIONS 4	FIELD CHANGES	CENTRE STREET CONNECTION U.S. ROUTE 1 SAGADAHOC COUNTY BATH			
	<b>ESTIMATED QUANTITIES</b>					

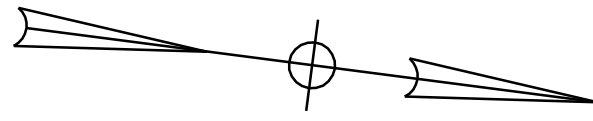
SHEET NUMBER

2

OF 53

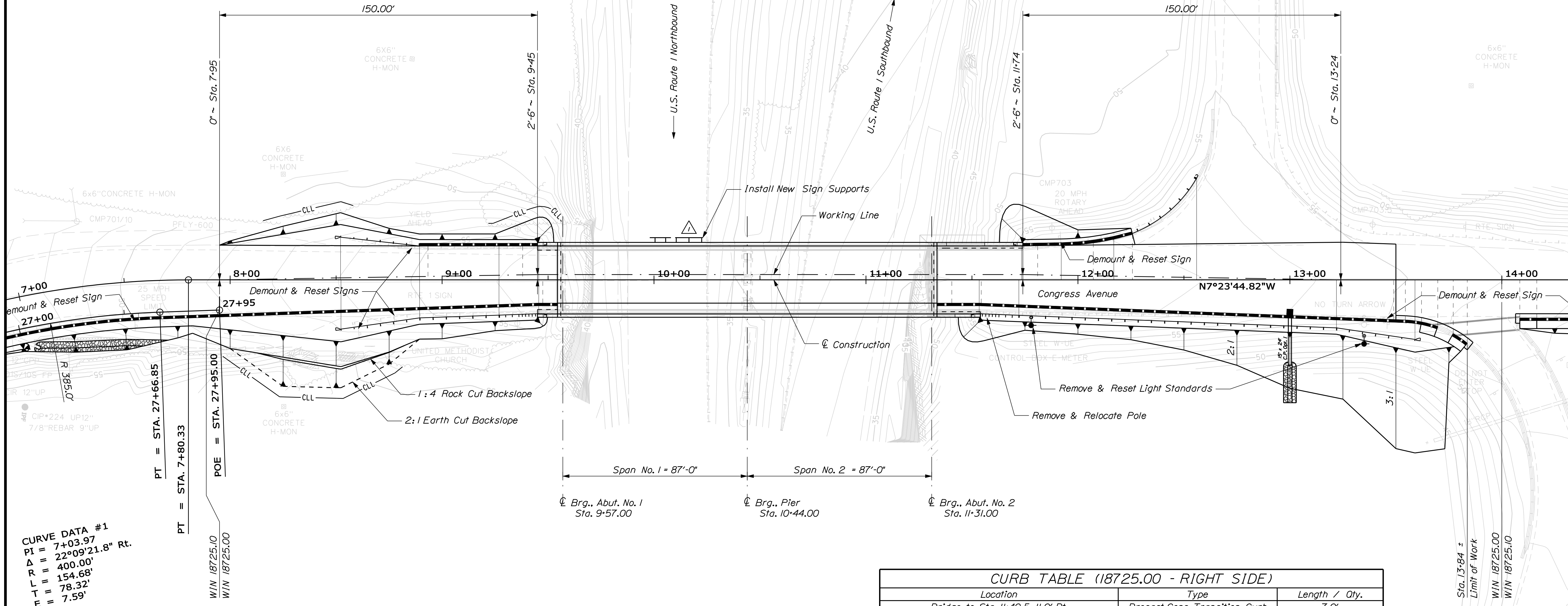
REVISIONS

Δ	Dec. 15, 2016
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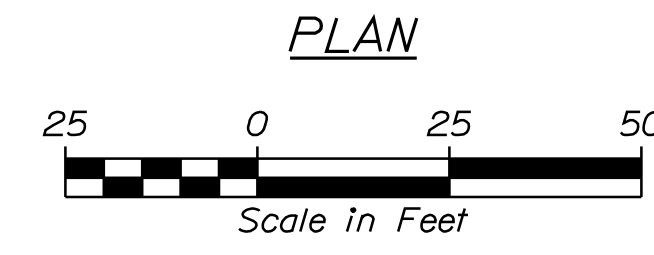


Location	Type	Length / Qty.
Bridge to Sta. 11+81.0, 16.1' Lt.	Precast Conc. Transition Curb	7.0'
Sta. 11+81.0, 16.1' Lt. to Sta. 12+07.2, 17.5' Lt.	Reset Curb Type I	26.3 L.F.
Sta. 12+07.2, 17.5' Lt. to Sta. 12+25.7, 21.5' Lt.	Curb Type I	18.9 L.F.

Location	Type	Length / Qty.
Bridge to Sta. 11+40.5, 11.0' Rt.	Precast Conc. Transition Curb	7.0'
Sta. 11+40.5, 11.0' Rt. to Sta. 11+54.4, 11.0' Rt.	Curb Type I	13.9 L.F.
Sta. 11+54.4, 11.0' Rt. to Sta. 13+49.0, 18.7' Rt.	Reset Curb Type I	194.8 L.F.
Sta. 13+49.0, 18.7' Rt. to Sta. 13+54.5, 18.7' Rt.	Curb Type I	5.5 L.F.
Sta. 13+54.5, 18.7' Rt. to Sta. 13+62.1, 19.8' Rt.	Curb Type I - Circular	7.7 L.F. (50' R.)
Sta. 13+62.1, 19.8' Rt. to Sta. 13+69.8, 22.0' Rt.	Terminal Curb Type I	1 Each (8.0')
Sta. 13+69.8, 22.0' Rt. to Sta. 13+77.0, 25.3' Rt.	Curb Cut	8.0'
Sta. 13+77.0, 25.3' Rt. to Sta. 13+83.7, 29.8' Rt.	Terminal Curb Type I	1 Each (8.0')



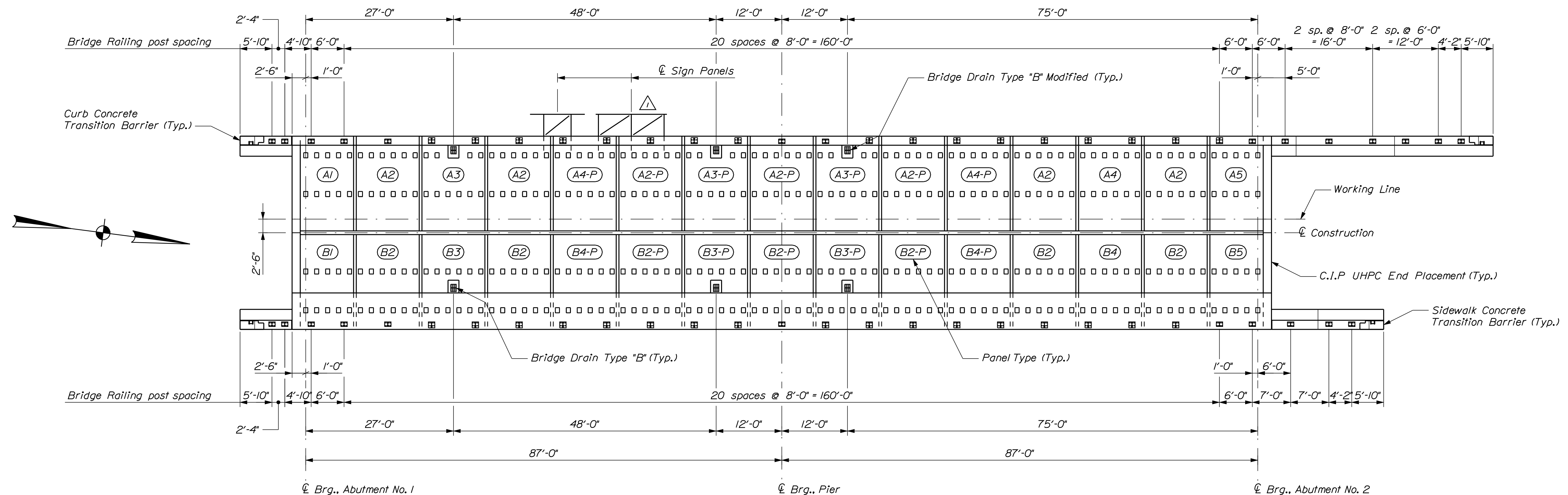
**CURVE DATA #1**  
 PI = 7+03.97  
 Δ = 22°09'21.8" Rt.  
 R = 400.00'  
 L = 154.68'  
 T = 78.32'  
 E = 7.59'



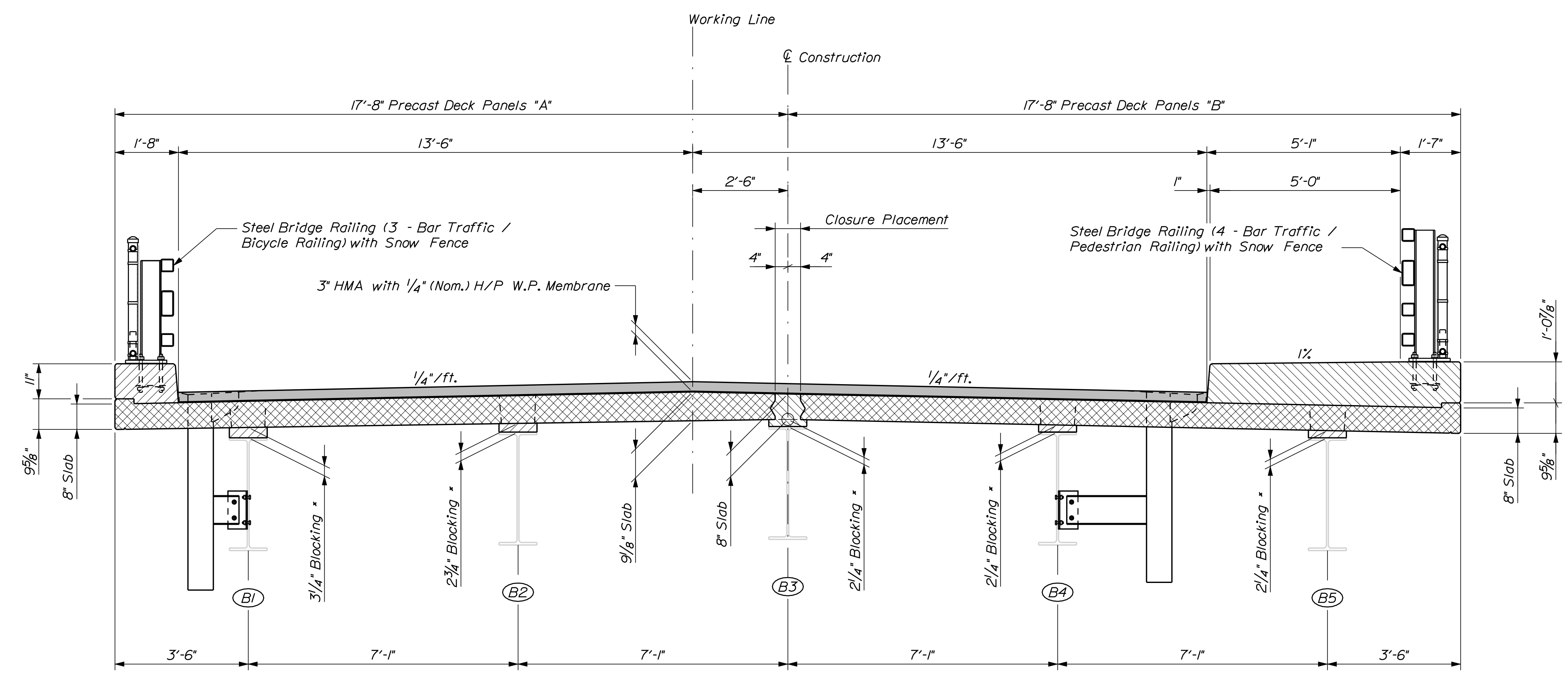
PLAN

STATE OF MAINE DEPARTMENT OF TRANSPORTATION		STP-1872(500)	
CENTRE STREET CONNECTION U.S. ROUTE 1 SAGadahoc COUNTY		BATH	
GENERAL PLAN		SHEET NUMBER	
5		OF 53	
BRIDGE NO. 6142 18725.00 & 18725.10		WIN	
BRIDGE PLANS		DATE	
SIGNATURE		P.E. NUMBER	
DATE		DATE	
BY		DATE	
DESIGNED		DATE	
CHECKED		DATE	
DESIGNED		DATE	
REVISIONS 1		DATE	
REVISIONS 2		DATE	
REVISIONS 3		DATE	
REVISIONS 4		DATE	
FIELD CHANGES		DATE	

REVISIONS
▲ Dec. 13, 2016



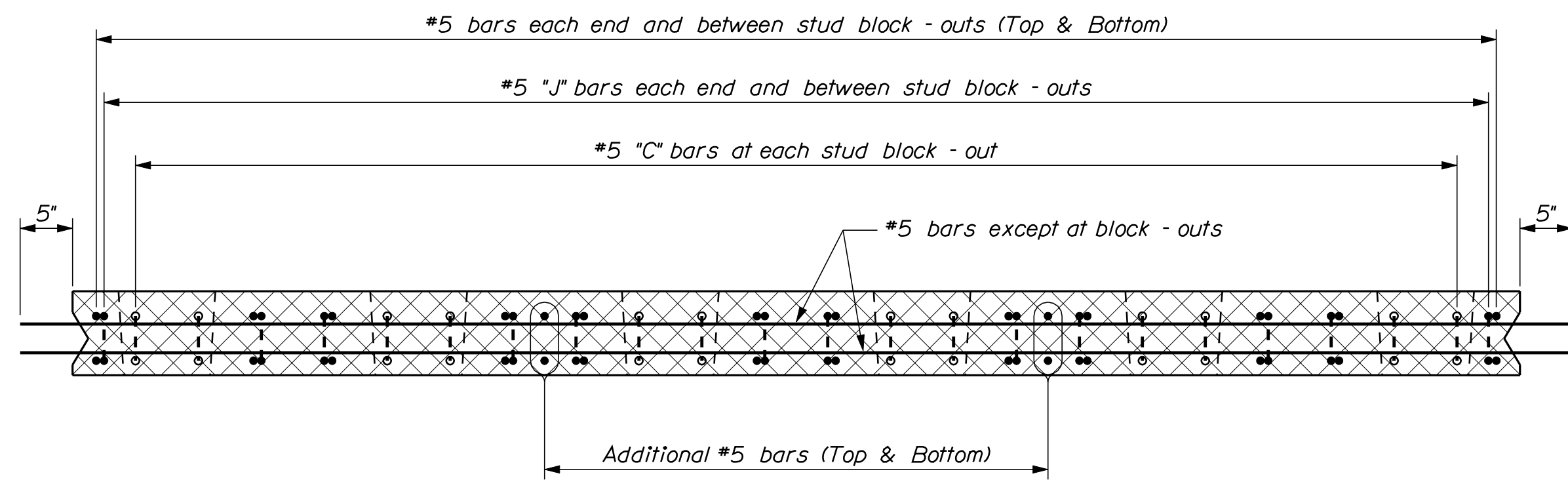
**SUPERSTRUCTURE PLAN**  
Dimensions are horizontal



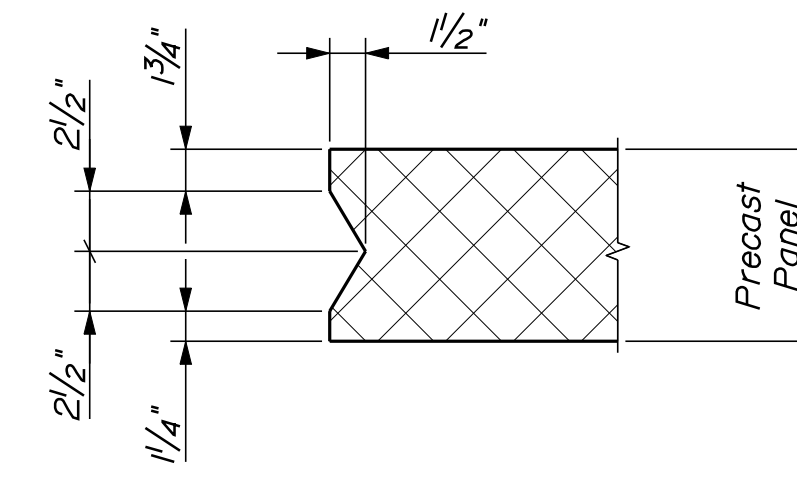
**TRANSVERSE SECTION**  
\* Theoretical blocking (See Notes)

REVISIONS
1 Dec. 13, 2016

STATE OF MAINE DEPARTMENT OF TRANSPORTATION <b>STP-1872(500)</b>		BRIDGE NO. 6142 <b>WIN</b> 18725.00 & 18725.10 BRIDGE PLANS
CENTRE STREET CONNECTION U.S. ROUTE 1 SAGadahoc COUNTY		BATH
SUPERSTRUCTURE PLAN		SHEET NUMBER <b>33</b> OF 53
PROJ. MANAGER J. Kirtledge	BY D. Damren WSP	DATE Oct. 2017 Nov. 2017
DESIGN-DETAILED D. Eaton WSP	CHECKED-REVIEWED WSP	SIGNATURE
DESIGNS DETAILED	DESIGNS DETAILED	P.E. NUMBER
REVISIONS 1	REVISIONS 1	DATE
REVISIONS 2	REVISIONS 2	
REVISIONS 3	REVISIONS 3	
REVISIONS 4	REVISIONS 4	
FIELD CHANGES		

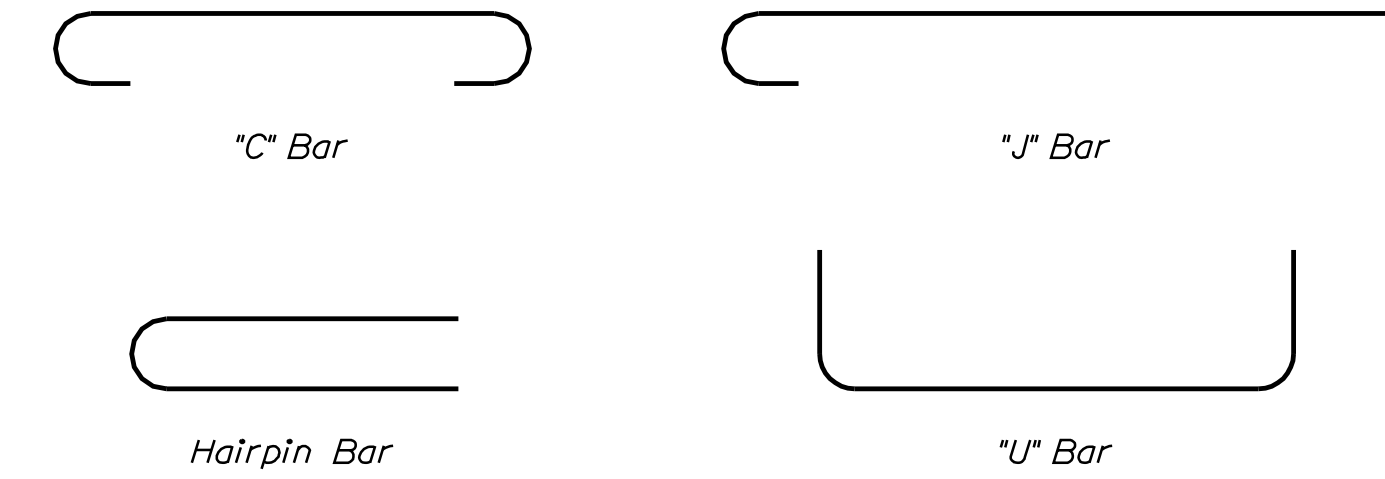


LONGITUDINAL SECTION ~ TYPICAL DECK PANEL



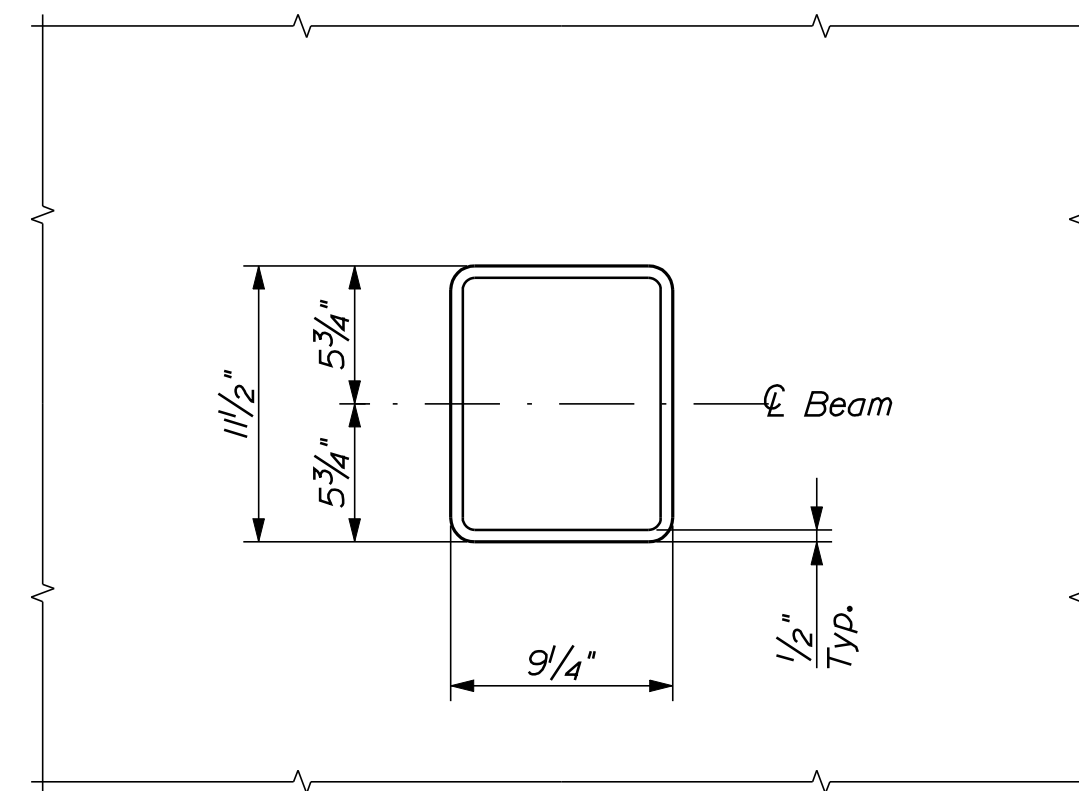
SHEAR KEY DETAIL

REINFORCING BAR LEGEND

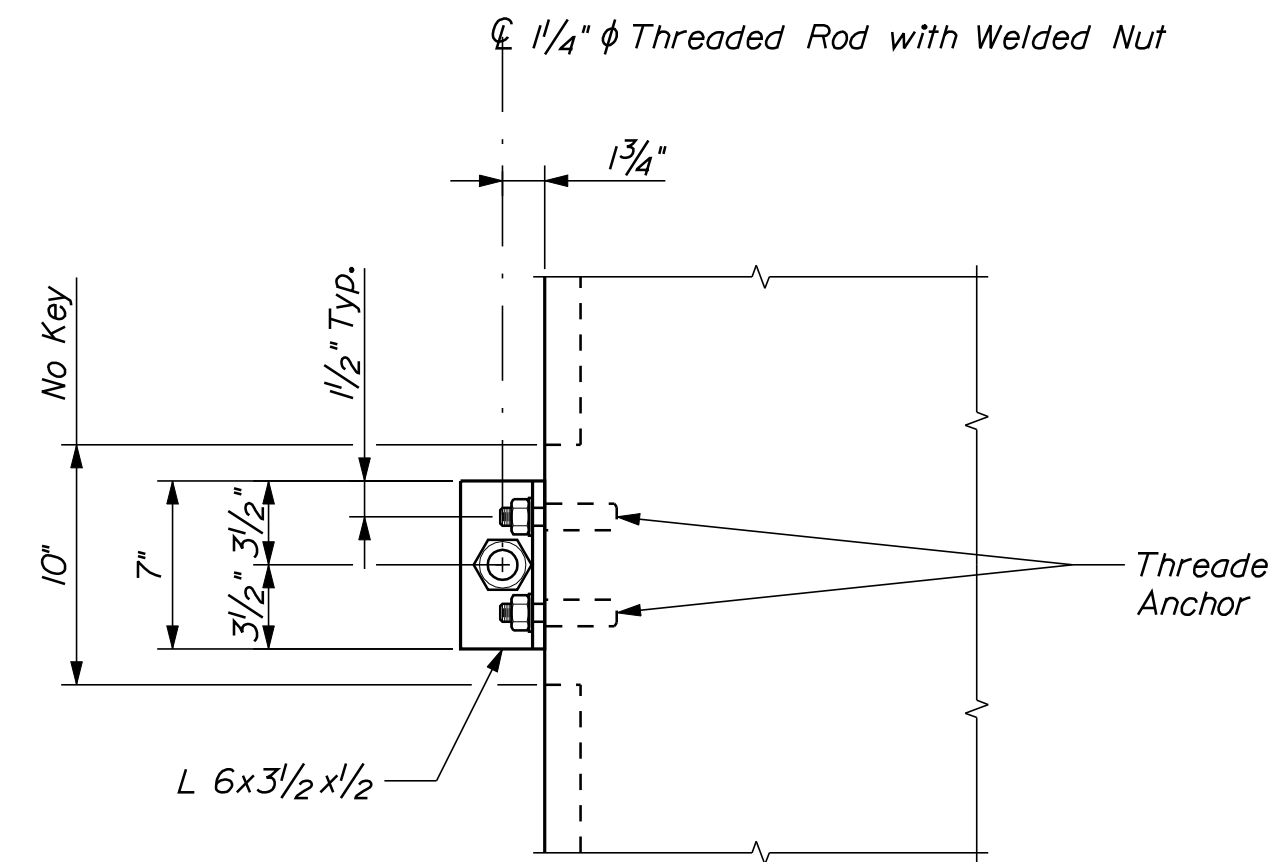


PRECAST CONCRETE DECK PANEL NOTES

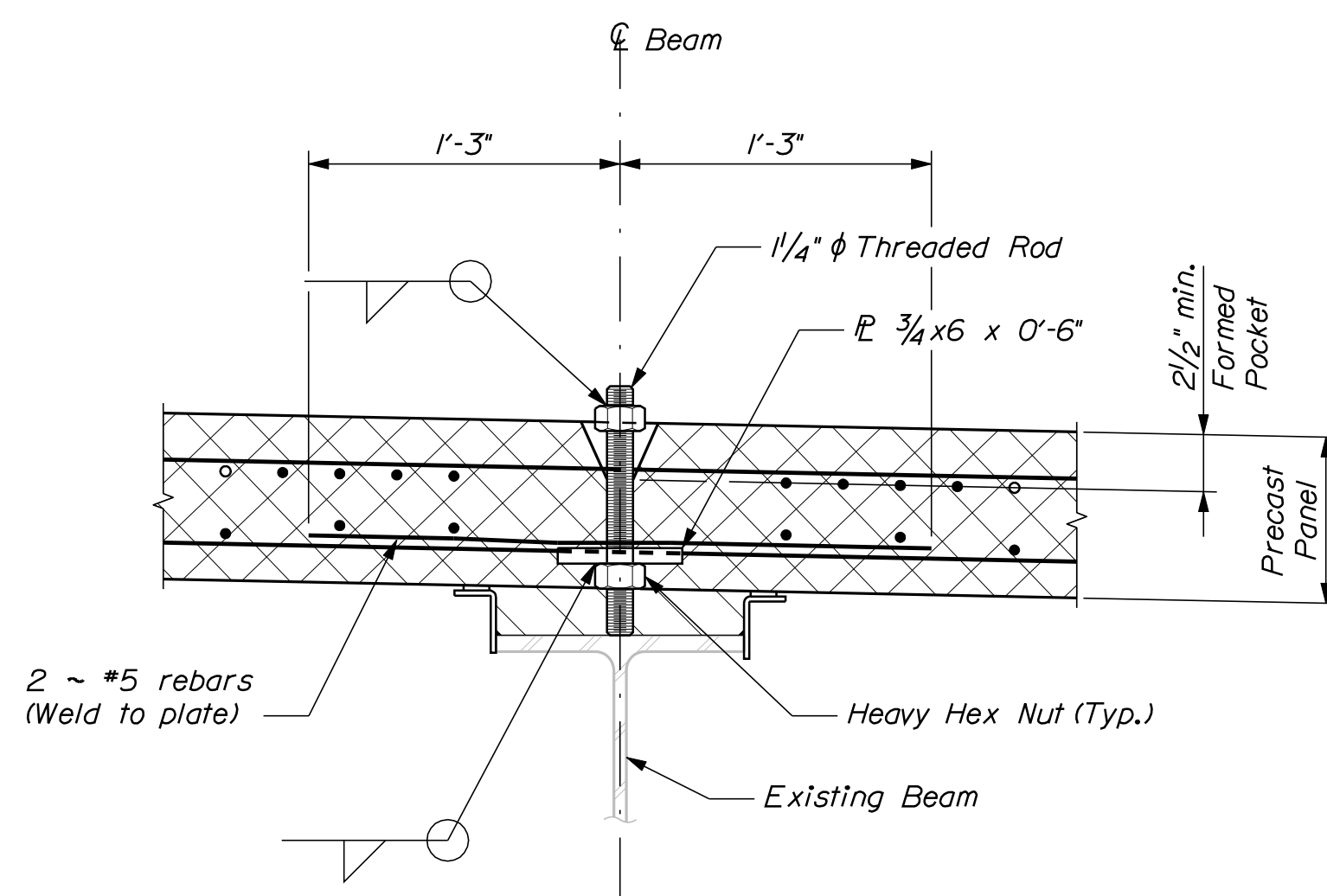
- For additional deck details not shown, refer to Standard Details 502(03) through 502(06).
- For the purposes of these details, the terms "Transverse" and "Longitudinal" refer to the orientation of the bridge, i.e. transverse is perpendicular to the girder centerlines.
- All transverse bars shall be distributed proportionately between shear connector blockouts and panel ends.
- All reinforcing steel projecting from the edges of panels shall be laterally offset from the reinforcing in adjacent panels to allow the panels to be set in place without the need to field bend reinforcing. All reinforcing located within field cast joints shall be detailed to provide non-contact lap splices with a minimum of 2 in. clear spacing between bars. A maximum clear spacing of up to one half the bar spacing may be provided.
- Vertical adjustment devices shall use a machine bolt, or similar, to allow for vertical adjustment of the precast panels. The vertical adjustment devices shall be adjusted to the calculated blocking distance prior to panel erection. Final adjustments to the panel elevations shall be made as required after all the panels in each construction phase have been set.
- The location, spacing, size, and final details of the vertical adjustment devices shall be determined by the Contractors Engineer. The vertical adjustment devices shall be designed to carry at least 150% of the combined load on the device including the precast panel, construction loads, and traffic loads.
- The bolts for the vertical adjustment devices shall be completely removed after the Ultra-high performance concrete (grout) has achieved a minimum compressive strength of 4000 psi. The resulting voids shall be filled with an approved non-shrink grout selected from MaineDOT's Qualified Products List.
- The Contractor shall exercise care in lifting, handling, storing, and transporting the precast deck panels to prevent cracking or damage. The lifting devices for the panels shall be located, designed, and detailed by the Contractor's Engineer.
- Precast curb shall be formed such that the fascia side of the barrier or curb is vertical after the panel is erected.
- UHPC shall be used to completely fill all field cast joints including beam haunches, shear connector and drain blockouts, transverse panel joints, longitudinal panel joints and deck end placements.
- UHPC for beam haunches and shear connector/drain blockouts shall be placed prior to any transverse or longitudinal panel joints.
- Form a V-groove on the fascias at the horizontal joint between the curb and slab.
- UHPC shall reach a minimum compressive strength of 14.5 ksi prior to opening the bridge to vehicles or equipment weighing more than 2000 pounds.
- A minimum clear cover of one inch shall be provided between all reinforcement and all shear keys, shear connector blockouts, and drain blockouts after accounting for reasonable fabrication and construction tolerances.
- All surfaces that will be in contact with UHPC shall have an exposed aggregate finish.
- The concrete sidewalk shall not be precast.



SHEAR STUD BLOCK - OUT PLAN

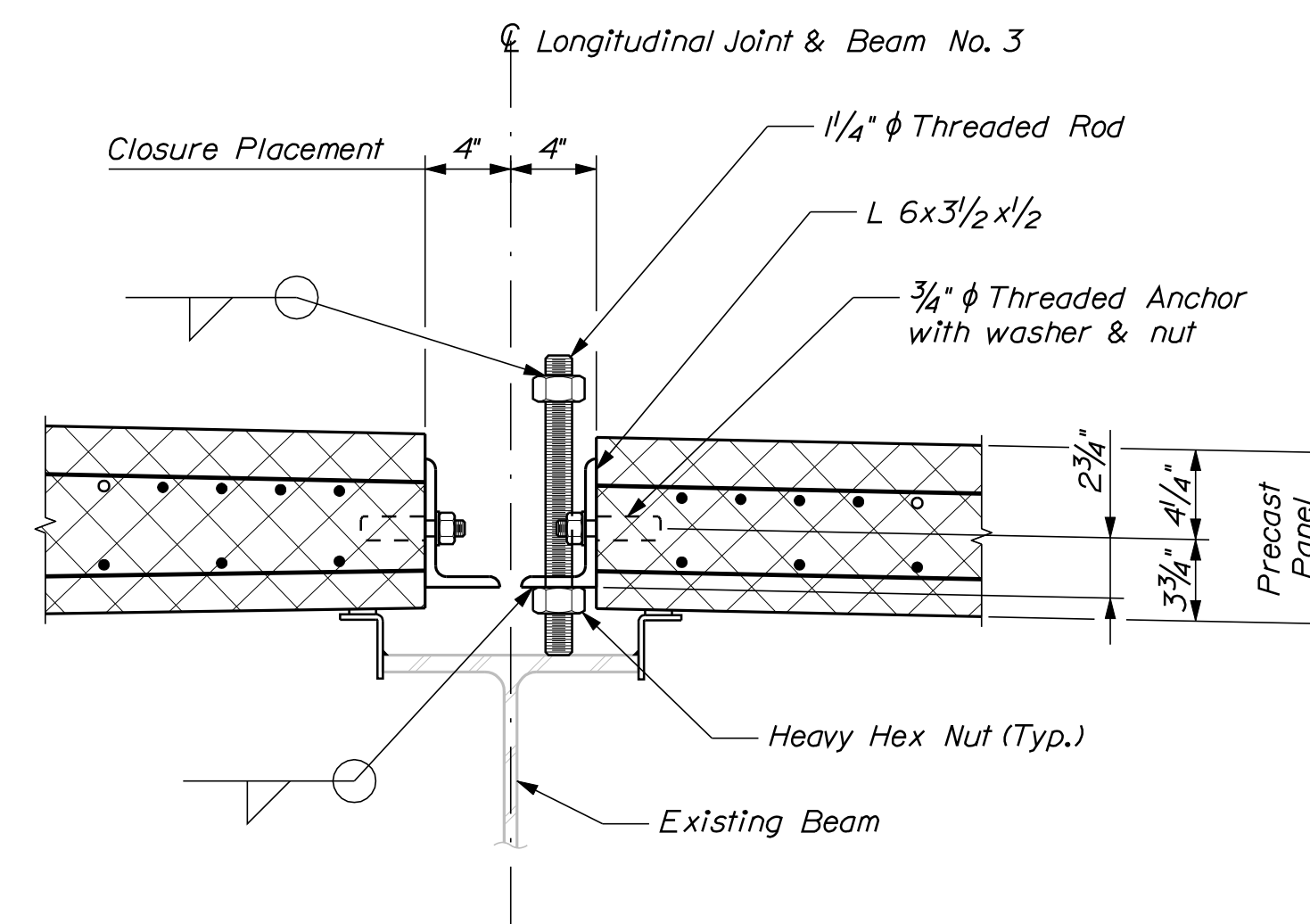


EXTERIOR VERTICAL ADJUSTMENT ASSEMBLY PLAN



INTERIOR VERTICAL ADJUSTMENT ASSEMBLY

Apply bond breaker to threaded rod.  
Remove rod after closure placement is made.  
Clean hole and fill with grout.



EXTERIOR VERTICAL ADJUSTMENT ASSEMBLY DETAIL

Apply bond breaker to threaded rod.  
Remove rod after closure placement is made.  
Clean hole and fill with grout.

PROJ. MANAGER	DESIGN DETAILED	CHECKED-REVIEWED	DESIGN DETAILED	REVISIONS 1	REVISIONS 2	REVISIONS 3	REVISIONS 4	FIELD CHANGES
J. Kirtledge	D. Eaton	D. Damron	D. Damron					
BY	DATE	BY	DATE	SIGNATURE				
D. Damron	Oct. 2017	WSP	Nov. 2017	P.E. NUMBER				
WSP				DATE				

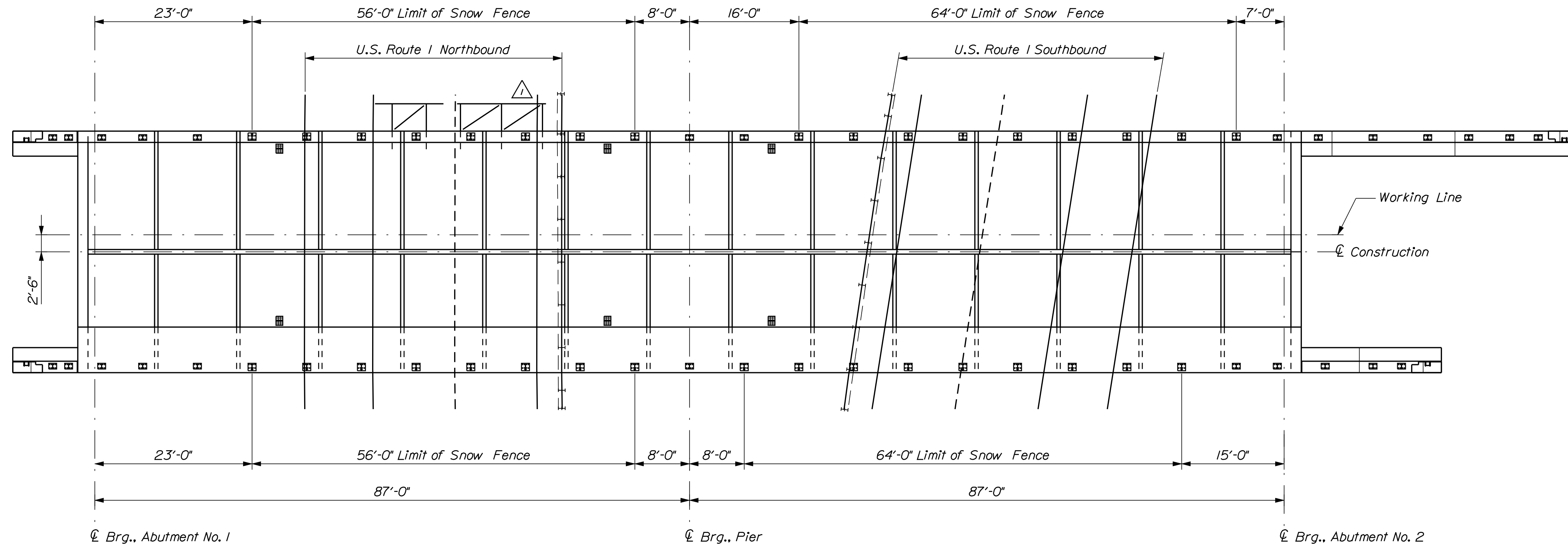
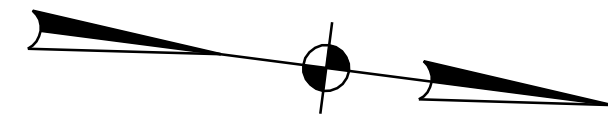
REVISIONS
Dec. 15, 2016

Date: 12/13/2017

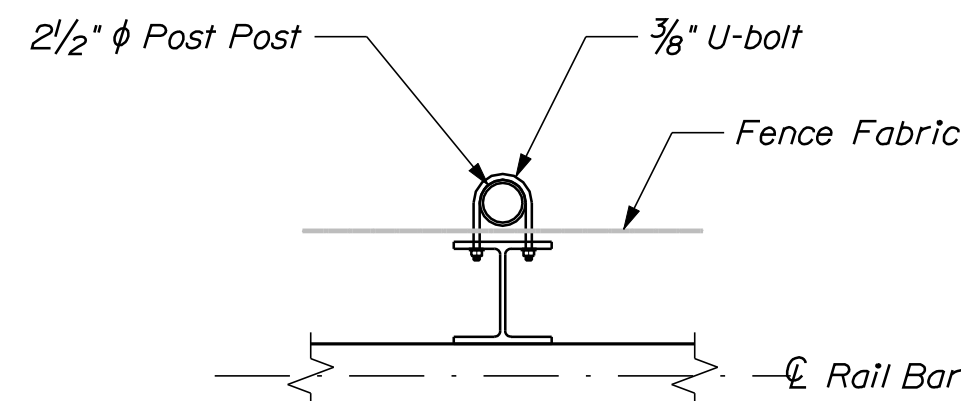
Username: Dana.Damren

Division: BRIDGE

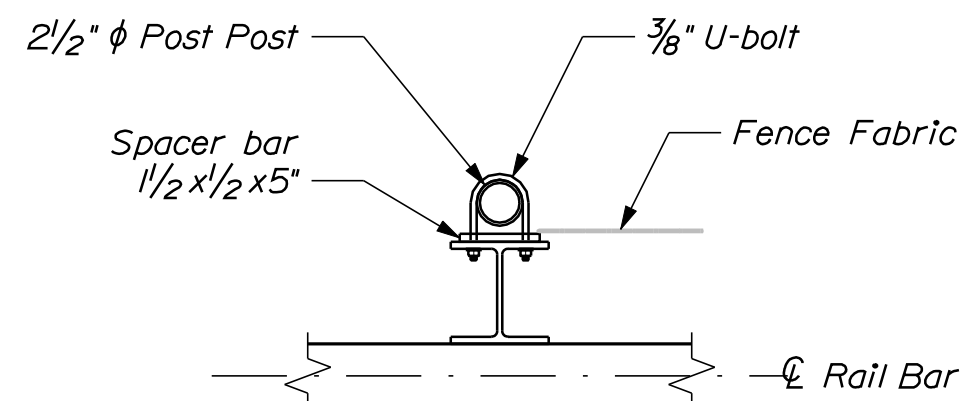
Filename: ... \046\_ Revised Snow Fence.dgn



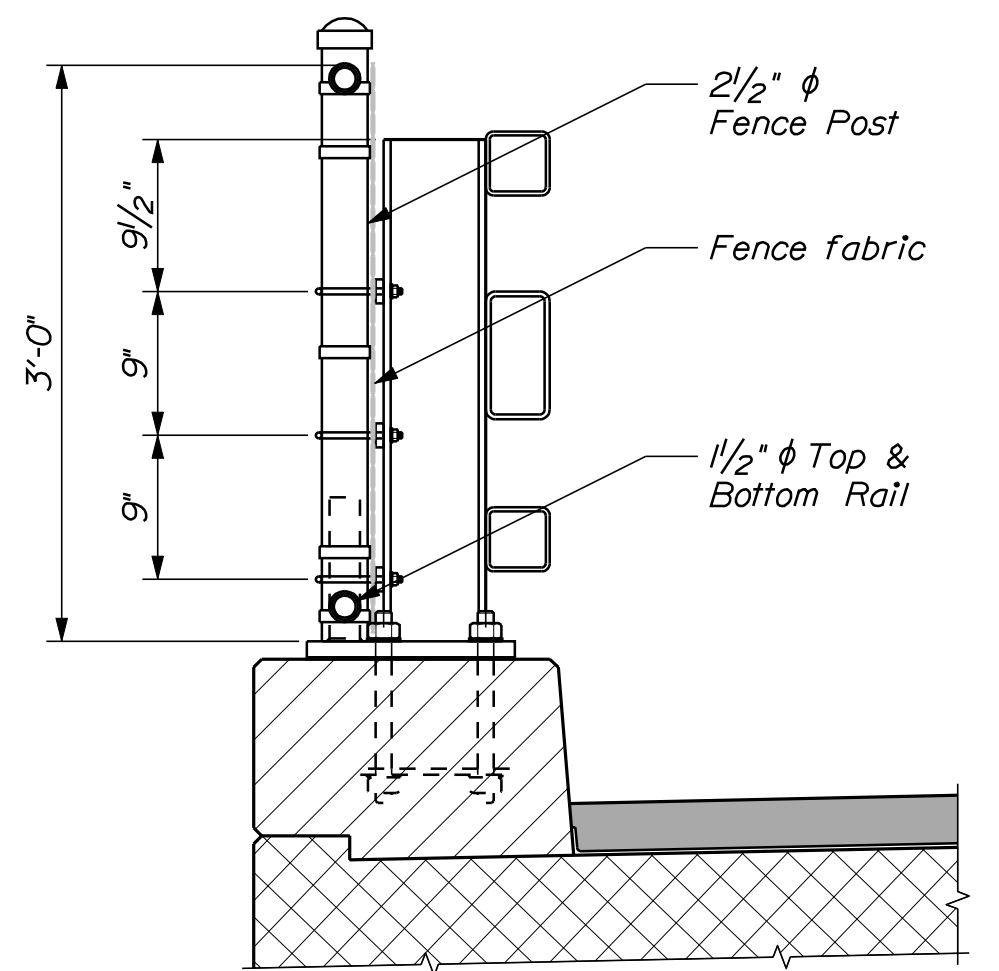
**SNOW FENCE PLAN**  
Dimensions are horizontal



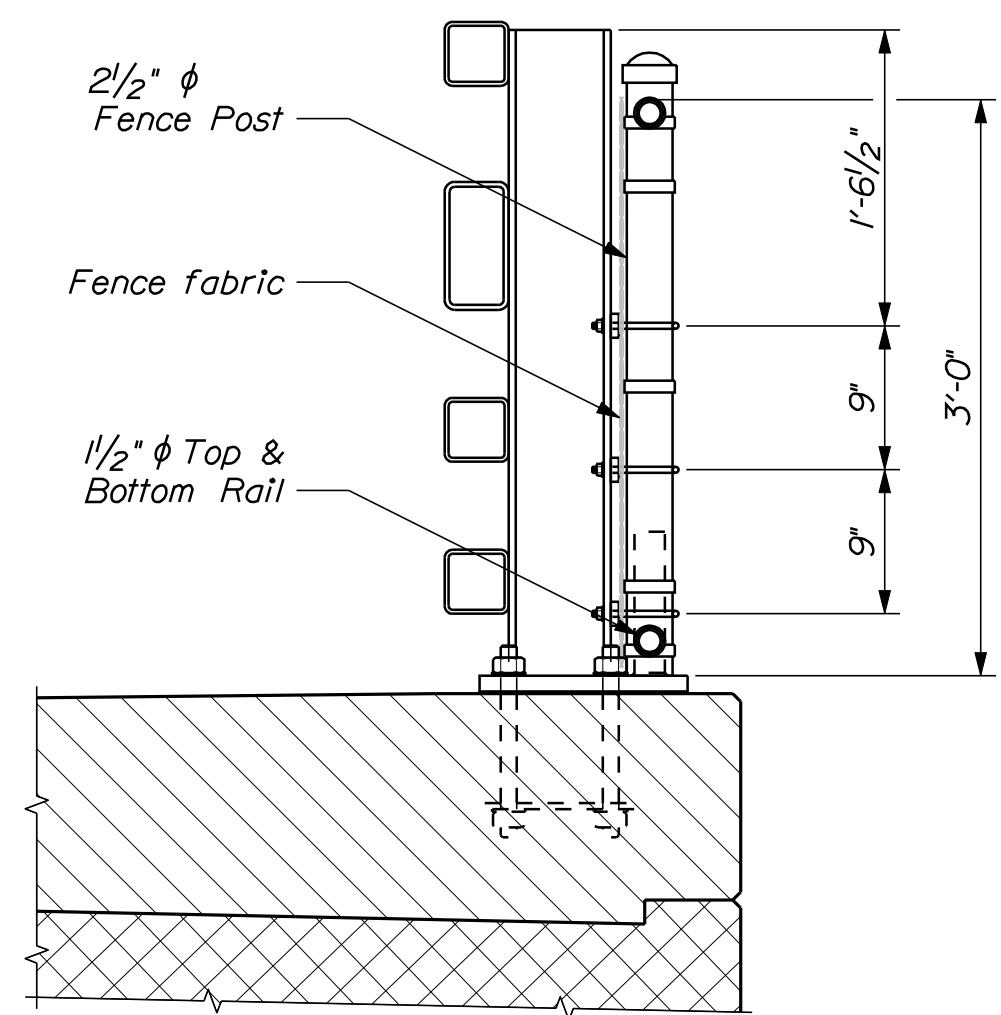
**LINE POST DETAIL**



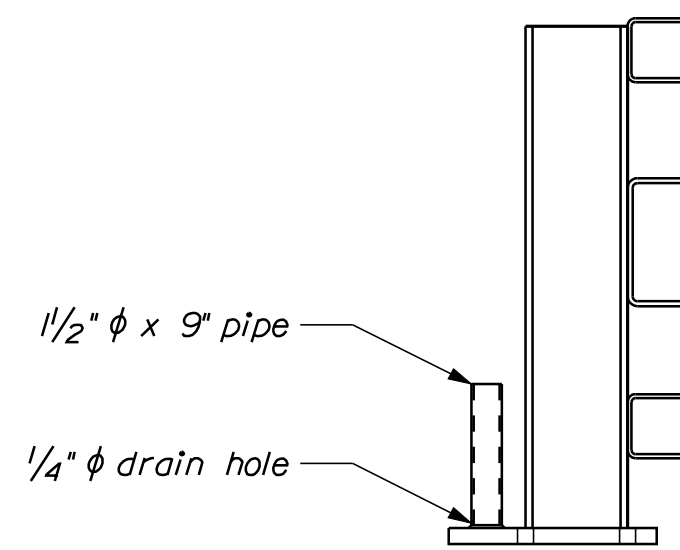
**END POST DETAIL**



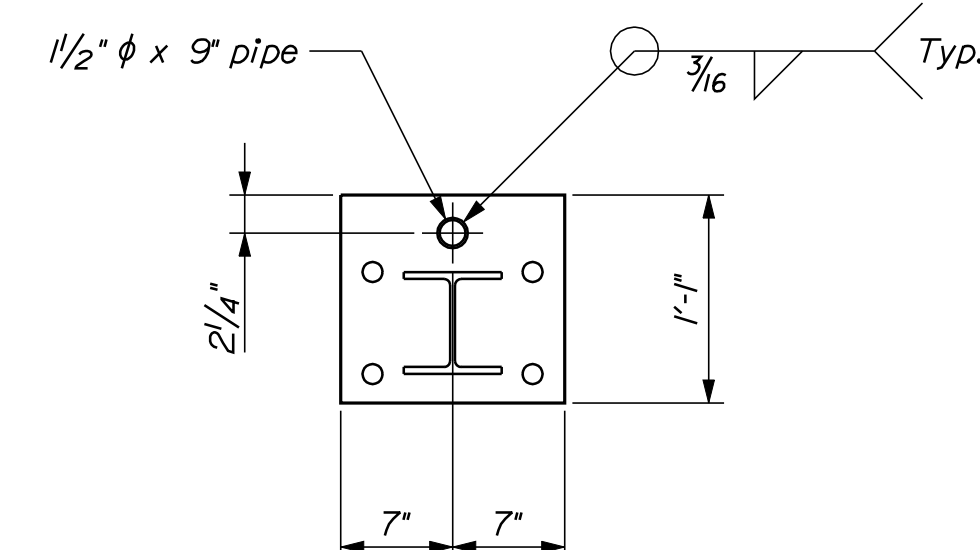
**CURB SNOW FENCE SECTION**



**SIDEWALK SNOW FENCE SECTION**



**MODIFIED RAIL POST SECTION**



**MODIFIED BASE PLATE PLAN**

**SNOW FENCE NOTES**

1. Payment for modified rail post base plates will be considered incidental to related contract items.
2. Post and rail pipe shall be hot-dip galvanized steel conforming to AASHTO M 181, Grade 1 (ASTM F 1083) or aluminum alloy conforming to AASHTO M 181 (ASTM B 429, alloy 6063-T61). All pipe shall be schedule 40, standard weight. Nominal pipe sizes are shown.
3. Tension bars, bar bands, boulevard and end rail clamps shall be steel or aluminum alloy conforming to AASHTO M 181 (ASTM F 626). Steel components shall be hot-dip galvanized in accordance with AASHTO M 111 (ASTM A 123) or AASHTO M 232 (ASTM A 153) as applicable.
4. All bolts and nuts shall be steel conforming to ASTM A 307 and ASTM A 563, Grade A respectively. Washers shall be hardened steel commercial Type "A" Plain and meet the dimensional requirements of ANSI B18.22. All bolts, nuts, and washers shall be hot-dip galvanized in accordance with AASHTO M 111 (ASTM A 123) or AASHTO M 232 (ASTM A 153) as applicable.
5. Wire ties shall be standard round 9 gauge zinc or aluminum coated steel or 6 gauge aluminum alloy conforming to ASTM F 626. All ties shall be wrapped around chain-link fabric twice (double pigtailed) at both ends. Space ties at 6" o.c. to bottom rail and at 12" o.c. at all posts and other rails.
6. Chain link fence shall conform to Standard Specification Section 710.03. Chain link fabric wire shall be 9 gauge steel and PVC coated black. Chain link fabric shall be knuckled top and bottom. The size of the wire mesh (fabric) shall be 1/2 inches.
7. Rail splices shall be provided at bridge rail splices as shown on the plans.
8. Rail may be field cut (sawn) to fit post spacing. Galvanized rail, cut or drilled as allowed, shall be touched up in accordance with 563.2.2.3.
9. See Standard Details Section 507, Steel Bridge Railing, for additional information.

REVISIONS
1 Dec. 13, 2016

STATE OF MAINE  
DEPARTMENT OF TRANSPORTATION  
STP-1872(500)  
WIN  
BRIDGE NO. 6142 18725.00 & 18725.10  
BRIDGE PLANS

PROJ. MANAGER	DATE	BY	DATE
J. Kittredge	Oct. 2017	D. Damren	Oct. 2017
D. Eaton	Nov. 2017	WSP	Nov. 2017
DESIGNED		WSP	
CHECKED		WSP	
DESIGNED/REVIEWED		WSP	
DESIGNED/REVIEWED		WSP	
DESIGNED/REVIEWED		WSP	
REVISIONS 1			
REVISIONS 2			
REVISIONS 3			
REVISIONS 4			
FIELD CHANGES			

CENTRE STREET CONNECTION  
U.S. ROUTE 1  
SAGadahoc COUNTY  
BATH  
SNOW FENCE

SHEET NUMBER

46

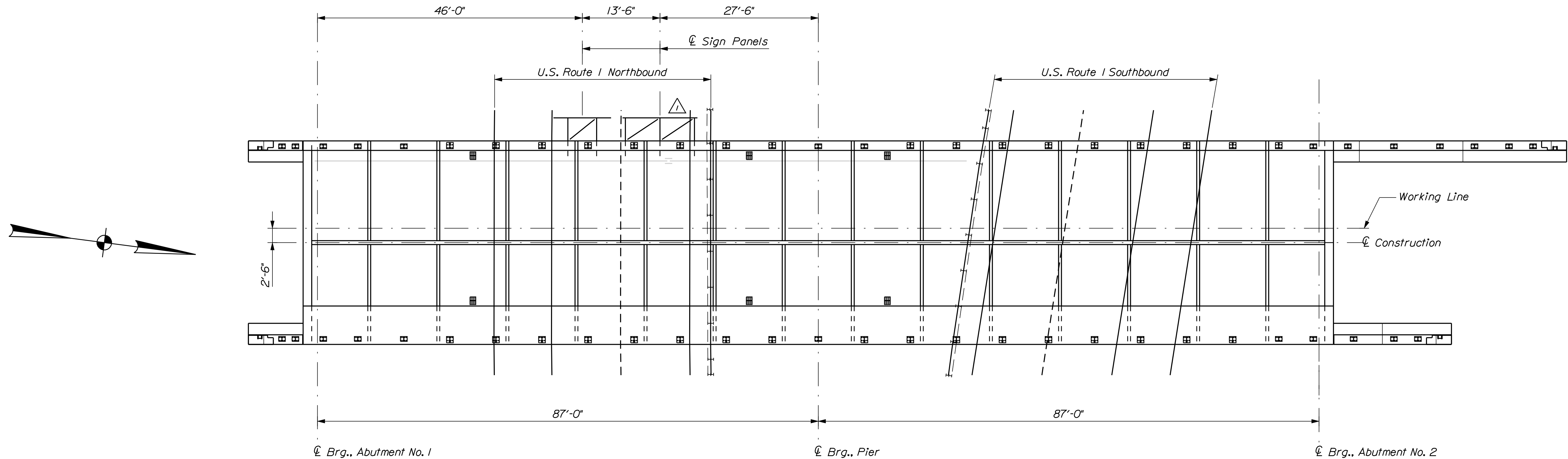
OF 53

Date: 12/13/2017

Username: Dana.Damren

Division: BRIDGE

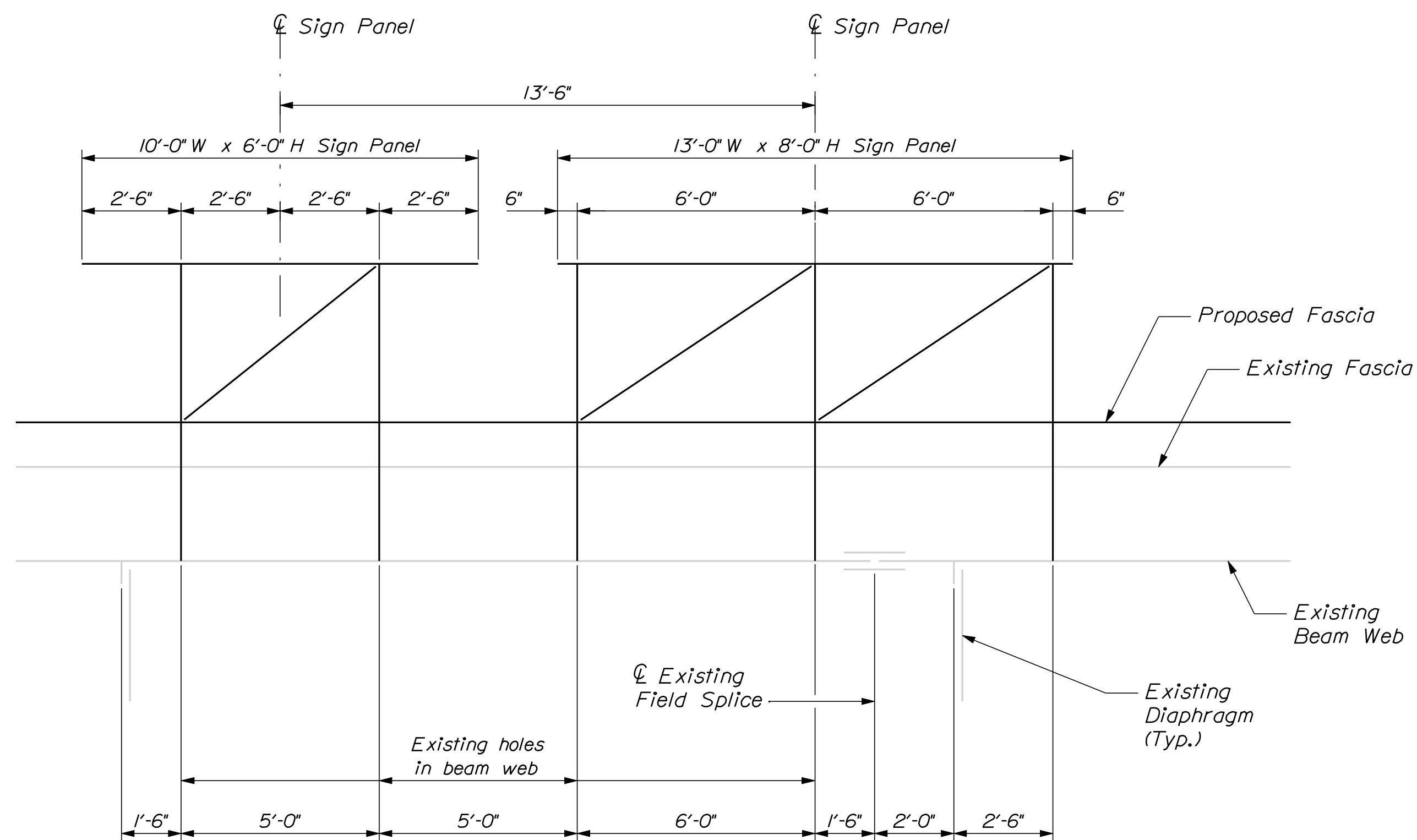
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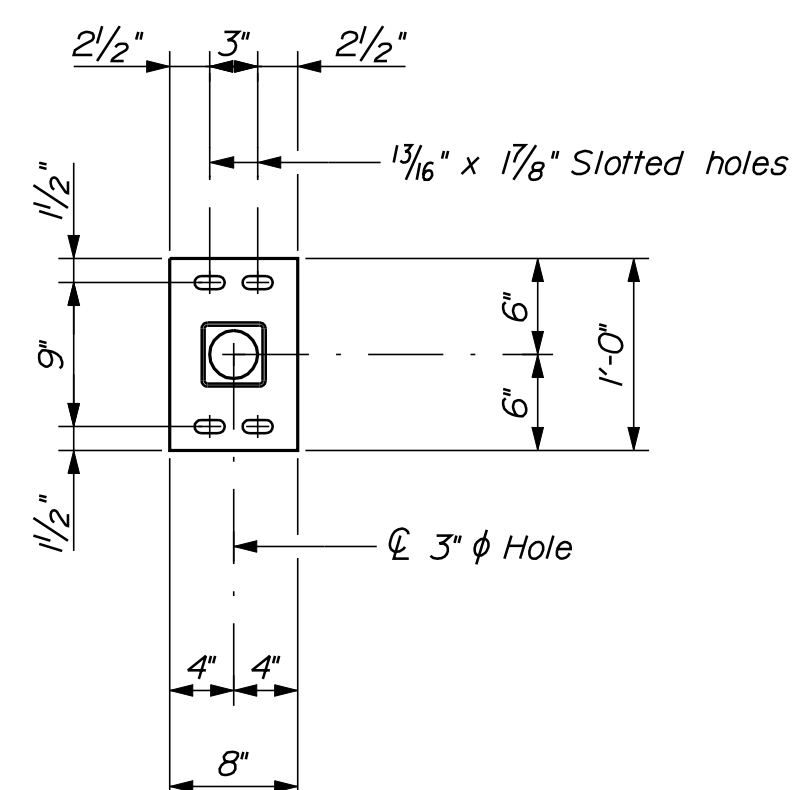
**SIGN PANEL LOCATION PLAN**  
Dimensions are horizontal

**SIGN PANEL NOTES**

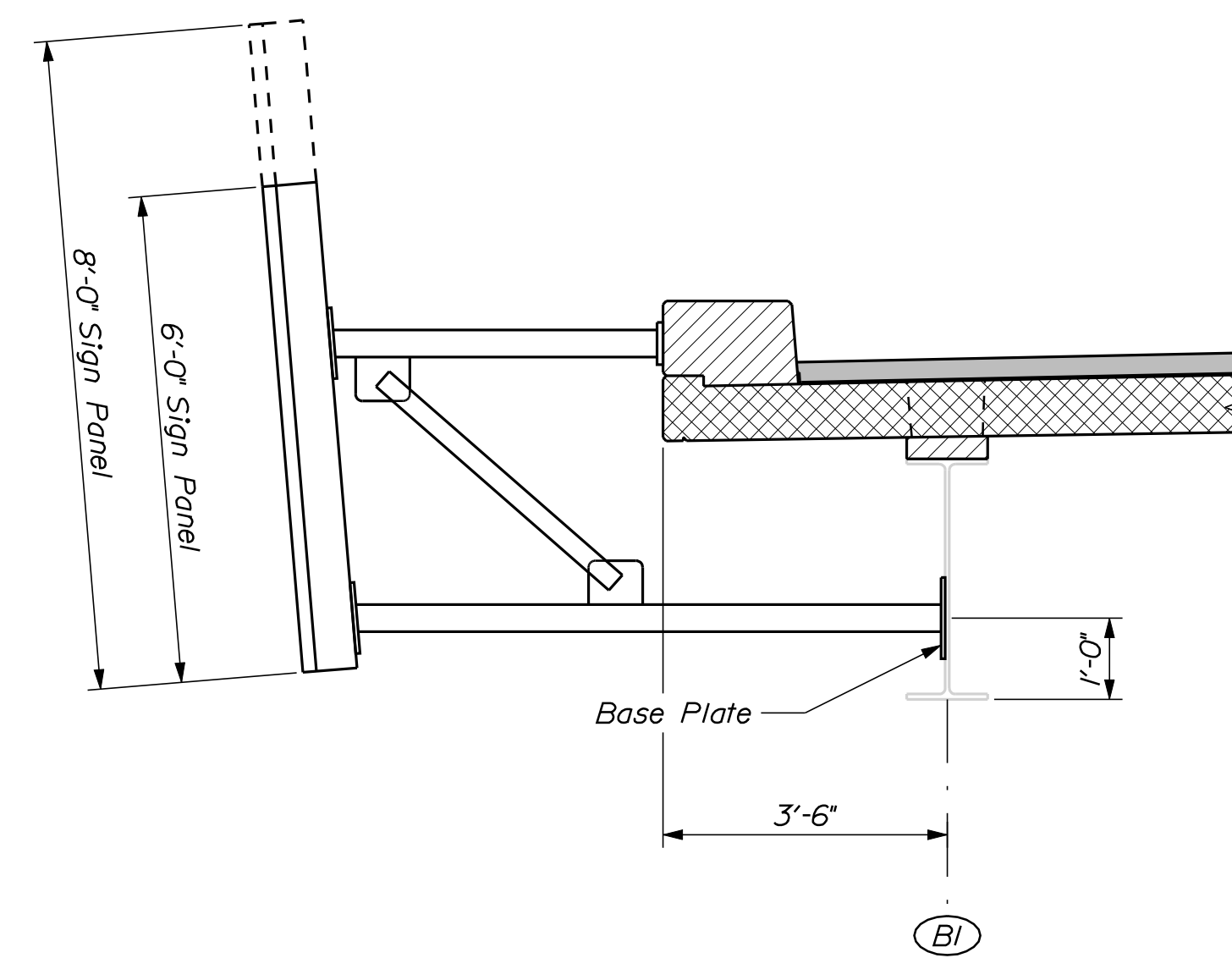
1. Refer to Standard Details Section 645 for details not shown.
2. The Base Plate and the chord locations are dimensioned to accommodate the reuse of existing holes in the beam web. If the existing holes are not reused, they shall be closed with a galvanized bolt of sufficient size to completely fill the hole.



**SIGN PANEL LAYOUT**  $\Delta$



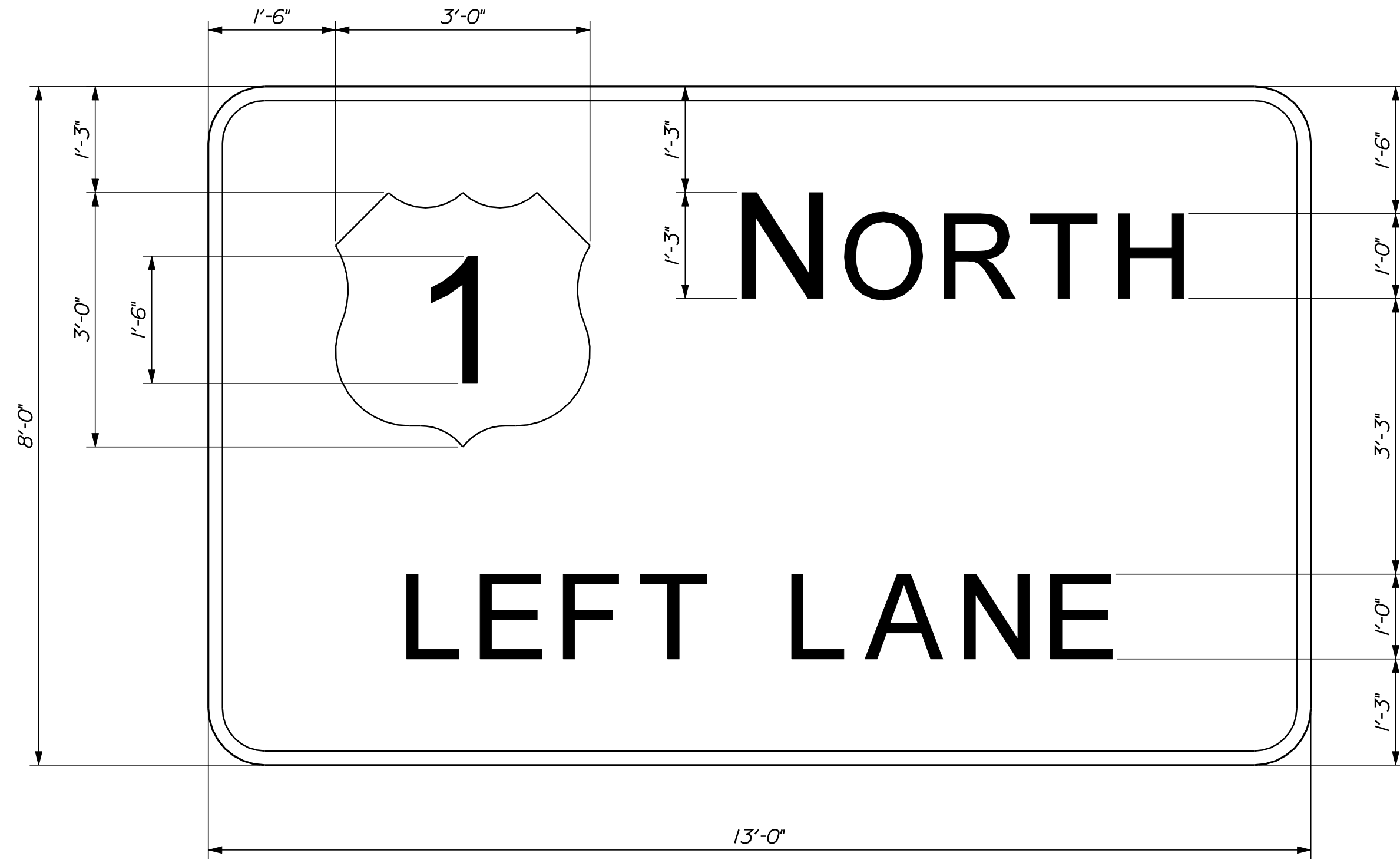
**BASE PLATE**  
3/8" Plate



**SIGN PANEL SECTION**  $\Delta$

REVISIONS
$\Delta$ Dec. 13, 2016

STATE OF MAINE DEPARTMENT OF TRANSPORTATION STP-1872(500)		BRIDGE NO. 6142 18725.00 & 18725.10 WIN BRIDGE PLANS	
PROJ. MANAGER J. Kirtledge	BY D. Damren WSP	DATE Oct. 2017 Nov. 2017	SIGNATURE P.E. NUMBER DATE
DESIGN/DETAILED D. Eaton WSP	CHECKED/REVIEWED WSP	DESIGNS/DETAILED	REVISIONS 1 REVISIONS 2 REVISIONS 3 REVISIONS 4 FIELD CHANGES
CENTRE STREET CONNECTION U.S. ROUTE 1 SAGADAHOC COUNTY		SIGN PANELS	
BATH		SHEET NUMBER <b>47</b> OF 53	



PASSING LANE SIGN PANEL  $\triangle$



TRAVEL LANE SIGN PANEL  $\triangle$

REVISIONS
$\triangle$ Dec. 13, 2016

SHEET NUMBER

48

OF 53

CENTRE STREET CONNECTION  
 U.S. ROUTE 1  
 SAGADAHOC COUNTY  
 BATH  
 SIGN PANELS

PROJ. MANAGER	J. Kirtredge	BY	DATE
DESIGN-DETAILED	D. Edlon	D. Damren	Oct. 2017
CHECKED-REVIEWED	WSP	WSP	Nov. 2017
DESIGN-DETAILED			SIGNATURE
REVISIONS 1			P.E. NUMBER
REVISIONS 2			DATE
REVISIONS 3			
REVISIONS 4			
FIELD CHANGES			

STATE OF MAINE  
 DEPARTMENT OF TRANSPORTATION  
 STP-1872(500)  
 BRIDGE NO. 6142 18725.00 & 18725.10  
 WIN  
 BRIDGE PLANS

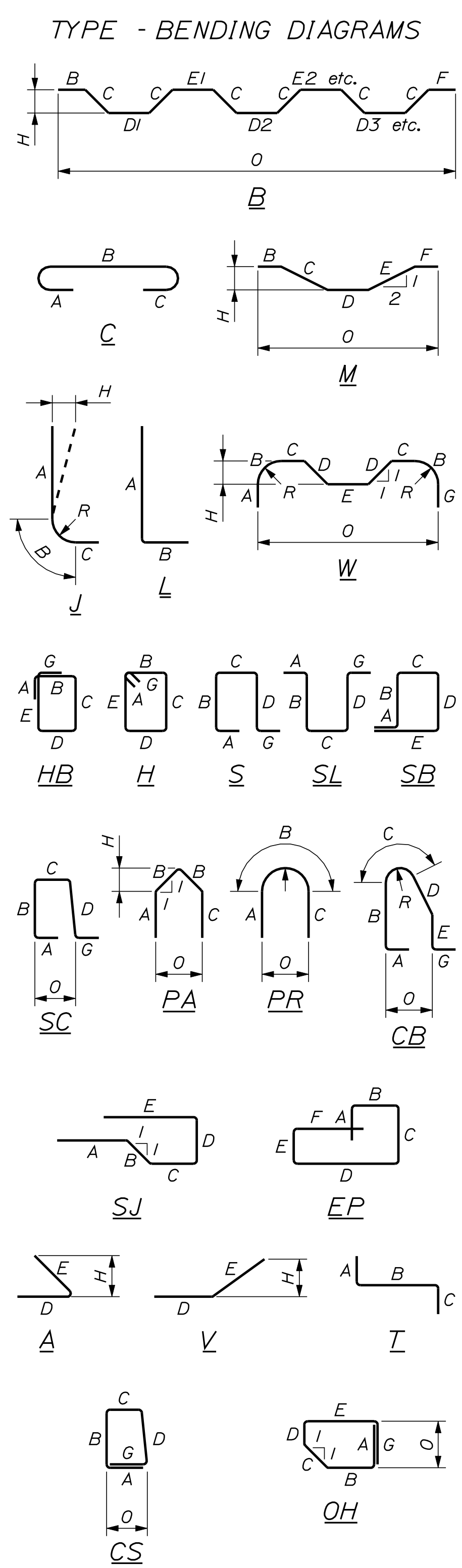
Date: 12/15/2017

Username: Devon.C.Eaton

Division: BRIDGE

Filename: ...msto\049\_Revised Rebar.dgn

STRAIGHT BARS								BENT BARS															
MARK	QTY.	LENGTH	LOCATION	MARK	QTY.	LENGTH	LOCATION	MARK	QTY.	LENGTH	TYPE	A	B	C	D	E	F	G	H	O	R	LOCATION	
Abutment No. 1				Superstructure				Abutment No. 1															
A501	24	9'-0"	Horizontal	S501	16	17'-8"	Transverse ~ End of Deck	A551	36	4'-9"	L	3'-0"	1'-9"	--	--	--	--	--	--	--	--	--	Vertical ~ Set "AE2" & "AW2"
				S511	30	33'-6"	Longitudinal	A553	18	2'-7"	C	0'-7"	1'-1"	0'-7"	--	--	--	--	--	--	--	--	Vertical ~ Set "AE2" & "AW2"
				S512	45	40'-0"	Longitudinal	A554	20	6'-11"	CS	1'-0"	1'-10"	1'-3"	1'-10"	--	--	1'-0"	--	1'-4"	--	--	Vertical ~ Set "AW1"
								A555	20	7'-3"	CS	1'-0"	2'-0"	1'-3"	2'-0"	--	--	1'-0"	--	1'-4"	--	--	Vertical ~ Set "AE1"
Abutment No. 2				Abutment No. 2																			
B501	24	17'-6"	Horizontal					A751	38	10'-10"	OH	1'-8"	2'-3"	1'-4"	0'-9"	3'-2"	--	1'-8"	--	1'-10"	--	--	Vertical ~ All Sets
B502	12	4'-0"	Horizontal																				
B503	12	8'-0"	Horizontal																				
B504	12	11'-6"	Horizontal																				
				Abutment No. 2																			
								B551	120	4'-9"	L	3'-0"	1'-9"	--	--	--	--	--	--	--	--	--	Vertical ~ Set "BE2" & "BW2"
								B552	60	2'-3"	C	0'-7"	1'-1"	0'-7"	--	--	--	--	--	--	--	--	Vertical ~ Set "BE2" & "BW2"
								B553	60	2'-7"	C	0'-7"	1'-5"	0'-7"	--	--	--	--	--	--	--	--	Vertical ~ Set "BE2" & "BW2"
								B554	65	6'-11"	CS	1'-0"	1'-10"	1'-3"	1'-10"	--	--	1'-0"	--	1'-4"	--	--	Vertical ~ Set "BW1"
								B555	35	7'-3"	CS	1'-0"	2'-0"	1'-3"	2'-0"	--	--	1'-0"	--	1'-4"	--	--	Vertical ~ Set "BE1"
								B751	125	10'-10"	OH	1'-8"	2'-3"	1'-4"	0'-9"	3'-2"	--	1'-8"	--	1'-10"	--	--	Vertical ~ All Sets
				Superstructure																			
				S551	136	2'-10"	S	0	0	0'-10"	1'-2"	0'-10"	--	--	0	--	--	--	--	--	--	--	Vertical ~ End of Deck



All dimensions are out-to-out of bar.

Bending details and hooks shall conform to the recommendations of the current revision of ACI Standard 315 and ACI Standard 318.

Reinforcing Bar: ASTM A 615/A 615M, Grade 60

**GENERAL NOTES**

1. The first two digits following the letter(s) of the mark indicate the size of the bar:

Mark "A502" = bar size #5  
 Mark "P805" = bar size #8  
 Mark "S650" = bar size #6

2. Each crank bar, Type B, may be replaced by two (2) straight bars (one top and one bottom) of the same bar size as the crank bar. Payment in either case will be based on crank bars as scheduled on the plans.

REVISIONS
△ Dec. 15, 2016

STATE OF MAINE DEPARTMENT OF TRANSPORTATION		STP-1872(500)		WIN BRIDGE NO. 6142 18725.00 & 18725.10 BRIDGE PLANS	
CENTRE STREET CONNECTION U.S. ROUTE 1		SAGADAHOC COUNTY		BATH	
REINFORCING		STEEL SCHEDULE		SHEET NUMBER	
49				OF 53	