

December 6, 2017

STATE OF RHODE ISLAND AND PROVIDENCE PLANTATION  
DEPARTMENT OF ADMINISTRATION

DIVISION OF PURCHASES BID NO. 7565516

RHODE ISLAND DEPARTMENT OF TRANSPORTATION

RHODE ISLAND CONTRACT NO.2017-CB-070

FEDERAL-AID PROJECT NO. FAP Nos: BRO-472(001), STP-RESF(360)

**Horton Farm Bridge No. 472**

Horton Farm Road Bridge No. 472

CITY/TOWN OF East Providence

COUNTY OF PROVIDENCE

**NOTICE TO PROSPECTIVE BIDDERS**

ADDENDUM NO. 4    Prospective bidders and all concerned are hereby notified of the following changes in the Plans, Specifications, Proposal and Distribution of Quantities for this contract. These changes shall be incorporated in the Plans, Specifications, Proposal and Distribution of Quantities, and shall become an integral part of the Contract Documents.

**A. Clarification**

1. Item Code 901.0191

The unit price for Item Code 901.0191 has been modified so it is no longer the only acceptable bid price.

**B. Specifications - Job Specific**

1. Pages JS-25A thru JS-25G

Insert pages JS-25A thru JS-25G attached to this Addendum No. 4. Details for the geogrid have been added.

2. Page JS-46A

Insert page JS-46A attached to this Addendum No. 4. Item Code 702.9912 has been added.

3. Page JS-47(R-1)

Remove page JS-47(R-1) in its entirety and replace with revised page JS-47(R-2) attached to this Addendum No. 4. This specification has been updated to include Item Codes 704.9902, 704.9904 and 704.9905.

4. Page JS-47A

Insert page JS-47A attached to this Addendum No. 4. This specification has been updated and extends onto this page.

5. Page JS-47B

Insert page JS-47B attached to this Addendum No. 4. Item Codes 708.9901, 708.9902 and 708.9905 have been added.

**C. Distribution of Quantities**

1. Index Pages 1(R-3) thru 4(R-3)

Remove index pages 1(R-3) thru 4(R-3) in their entirety and replace with revised index pages 1(R-4) thru 4(R-4) attached to this Addendum No. 4. The index has been revised and updated items are indicated in bold.

2. Index Page 5

Insert index page 5 attached to this Addendum No. 4. The index has been revised and extends onto this new page.

3. Page 61(R-1)

Remove page 61(R-1) in its entirety and replace with revised page 61(R-2) attached to this Addendum no. 4. The quantity for Item Code 926.0120 has been updated.

4. Page 93

Remove page 93 in its entirety and replace with revised page 93(R-1) attached to this Addendum No. 4. Item Code 701.2112 has been added.

5. Page 94

Insert page 94 attached to this Addendum No. 4. Item Codes 701.2112, 702.0512, 702.0605, 702.0300 and 704.0400 have been added.

**D. Plans**

1. VOLUME 1 SHEET 5(R-1) - JOB SPECIFIC PLAN SYMBOLS, LEGEND & NOTES

Remove and replace Sheet 5(R-1) in its entirety with Sheet 5(R-2) attached to this Addendum No. 4. This sheet has been revised.

2. VOLUME 1 SHEET 17(R-1) - GENERAL PLAN SHEET 6 OF 11

Remove and replace Sheet 17(R-1) in its entirety with Sheet 17(R-2) attached to this Addendum No. 4. This sheet has been revised.

3. VOLUME 1 SHEET 19(R-1) - GENERAL PLAN SHEET 8 OF 11

Remove and replace Sheet 19(R-1) in its entirety with Sheet 19(R-2) attached to this Addendum No. 4. This sheet has been revised.

4. VOLUME 1 SHEET 30(R-1) - DRAINAGE & UTILITY PLAN SHEET 6 OF 11

Remove and replace Sheet 30(R-1) in its entirety with Sheet 30(R-2) attached to this Addendum No. 4. This sheet has been revised.

5. VOLUME 1 SHEET 32(R-1) - DRAINAGE & UTILITY PLAN SHEET 8 OF 11

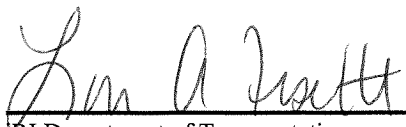
Remove and replace Sheet 32(R-1) in its entirety with Sheet 32(R-2) attached to this Addendum No. 4. This sheet has been revised.

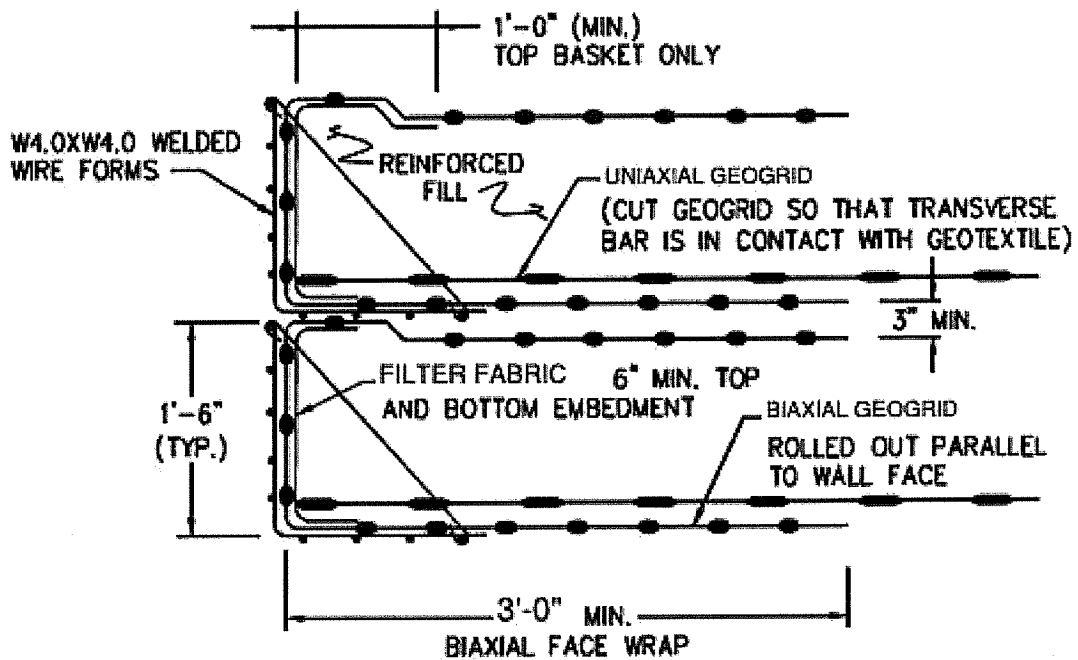
6. VOLUME 1 SHEET 42 - LOCATION PLAN SHEET 6 OF 11  
Remove and replace Sheet 42 in its entirety with Sheet 42(R-1) attached to this Addendum No. 4. This sheet has been revised.
7. VOLUME 1 SHEET 44 - LOCATION PLAN SHEET 8 OF 11  
Remove and replace Sheet 44 in its entirety with Sheet 44(R-1) attached to this Addendum No. 4. This sheet has been revised.
8. VOLUME 1 SHEET 55(R-1) - LIGHTING PLAN SHEET 1 OF 11  
Remove and replace Sheet 55(R-1) in its entirety with Sheet 55(R-2) attached to this Addendum No. 4. This sheet has been revised.
9. VOLUME 1 SHEET 58(R-1) - LIGHTING PLAN SHEET 4 OF 11  
Remove and replace Sheet 58(R-1) in its entirety with Sheet 58(R-2) attached to this Addendum No. 4. This sheet has been revised.
10. VOLUME 2 SHEET 1 - COVER SHEET AND INDEX  
Remove and replace Sheet 1 in its entirety with Sheet 1(R-1) attached to this Addendum No. 4. This sheet has been revised.
11. VOLUME 2 SHEET 5 - GENERAL BRIDGE NOTES SHEET 2 OF 3  
Remove and replace Sheet 5 in its entirety with Sheet 5(R-1) attached to this Addendum No. 4. This sheet has been revised.
12. VOLUME 2 SHEET 6(R-1) - GENERAL BRIDGE NOTES SHEET 3 OF 3  
Remove and replace Sheet 6(R-1) in its entirety with Sheet 6(R-2) attached to this Addendum No. 4. This sheet has been revised.
13. VOLUME 2 SHEET 7 - GENERAL PLAN AND ELEVATION  
Remove and replace Sheet 7 in its entirety with Sheet 7(R-1) attached to this Addendum No. 4. This sheet has been revised.
14. VOLUME 2 SHEET 8(R-1) - TYPICAL BRIDGE & APPROACH SECTIONS  
Remove and replace Sheet 8(R-1) in its entirety with Sheet 8(R-2) attached to this Addendum No. 4. This sheet has been revised.
15. VOLUME 2 SHEET 10(R-1) - CONSTRUCTION STAGING & DEMOLITION DETAILS SHEET 2 OF 3  
Remove and replace Sheet 10(R-1) in its entirety with Sheet 10(R-2) attached to this Addendum No. 4. This sheet has been revised.
16. VOLUME 2 SHEET 11(R-1) - CONSTRUCTION STAGING & DEMOLITION DETAILS SHEET 3 OF 3  
Remove and replace Sheet 11(R-1) in its entirety with Sheet 11(R-2) attached to this Addendum No. 4. This sheet has been revised.
17. VOLUME 2 SHEET 22 - NORTH ABUTMENT PLAN AND ELEVATION  
Remove and replace Sheet 22 in its entirety with Sheet 22(R-1) attached to this Addendum No. 4. This sheet has been revised.

18. VOLUME 2 SHEET 23 - SOUTH ABUTMENT PLAN AND ELEVATION  
Remove and replace Sheet 23 in its entirety with Sheet 23(R-1) attached to this Addendum No. 4.  
This sheet has been revised.
19. VOLUME 2 SHEET 24(R-1) - ABUTMENT DETAILS  
Remove and replace Sheet 24(R-1) in its entirety with Sheet 24(R-2) attached to this Addendum No. 4. This sheet has been revised.
20. VOLUME 2 SHEET 28(R-1) - GEOGRID PLAN AND DETAILS  
Remove and replace Sheet 28(R-1) in its entirety with Sheet 28(R-2) attached to this Addendum No. 4. This sheet has been revised.
21. VOLUME 2 SHEET 30 - PIER SECTIONS AND DETAILS SHEET 1 OF 2  
Remove and replace Sheet 30 in its entirety with Sheet 30(R-1) attached to this Addendum No. 4.  
This sheet has been revised.
22. VOLUME 2 SHEET 31 - PIER SECTIONS AND DETAILS SHEET 2 OF 2  
Remove and replace Sheet 31 in its entirety with Sheet 31(R-1) attached to this Addendum No. 4.  
This sheet has been revised.
23. VOLUME 2 SHEET 33 - FRAMING PLAN  
Remove and replace Sheet 33 in its entirety with Sheet 33(R-1) attached to this Addendum No. 4.  
This sheet has been revised.
24. VOLUME 2 SHEET 34 - GIRDER ELEVATION AND DETAILS  
Remove and replace Sheet 34 in its entirety with Sheet 34(R-1) attached to this Addendum No. 4.  
This sheet has been revised.
25. VOLUME 2 SHEET 35 - STEEL DETAILS  
Remove and replace Sheet 35 in its entirety with Sheet 35(R-1) attached to this Addendum No. 4.  
This sheet has been revised.
26. VOLUME 2 SHEET 36(R-1) - DIAPHRAGM DETAILS  
Remove and replace Sheet 36(R-1) in its entirety with Sheet 36(R-2) attached to this Addendum No. 4. This sheet has been revised.
27. VOLUME 2 SHEET 38(R-1) - DECK GRADES  
Remove and replace Sheet 38(R-1) in its entirety with Sheet 38(R-2) attached to this Addendum No. 4. This sheet has been revised.
28. VOLUME 2 SHEET 39(R-1) - DECK PLAN  
Remove and replace Sheet 39(R-1) in its entirety with Sheet 39(R-2) attached to this Addendum No. 4. This sheet has been revised.
29. VOLUME 2 SHEET 39A - DECK POUR SEQUENCE AND DETAILS  
Insert Sheet 39A attached to this Addendum No. 4. The "Deck Pour Sequence Plan and Details" sheet has been added.

30. VOLUME 2 SHEET 40(R-1) - DECK REINFORCEMENT DETAILS

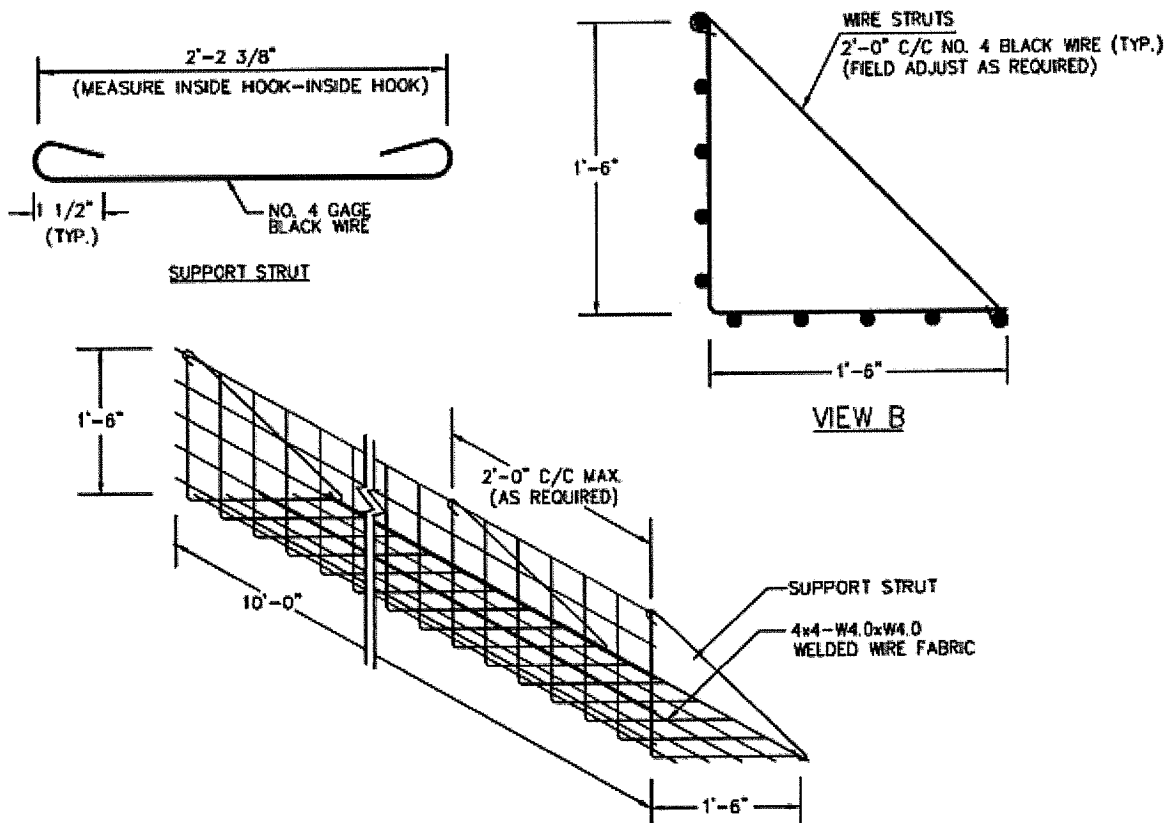
Remove and replace Sheet 40(R-1) in its entirety with Sheet 40(R-2) attached to this Addendum No. 4. This sheet has been revised.

  
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RI Department of Transportation  
Administrator, Division of Project Management



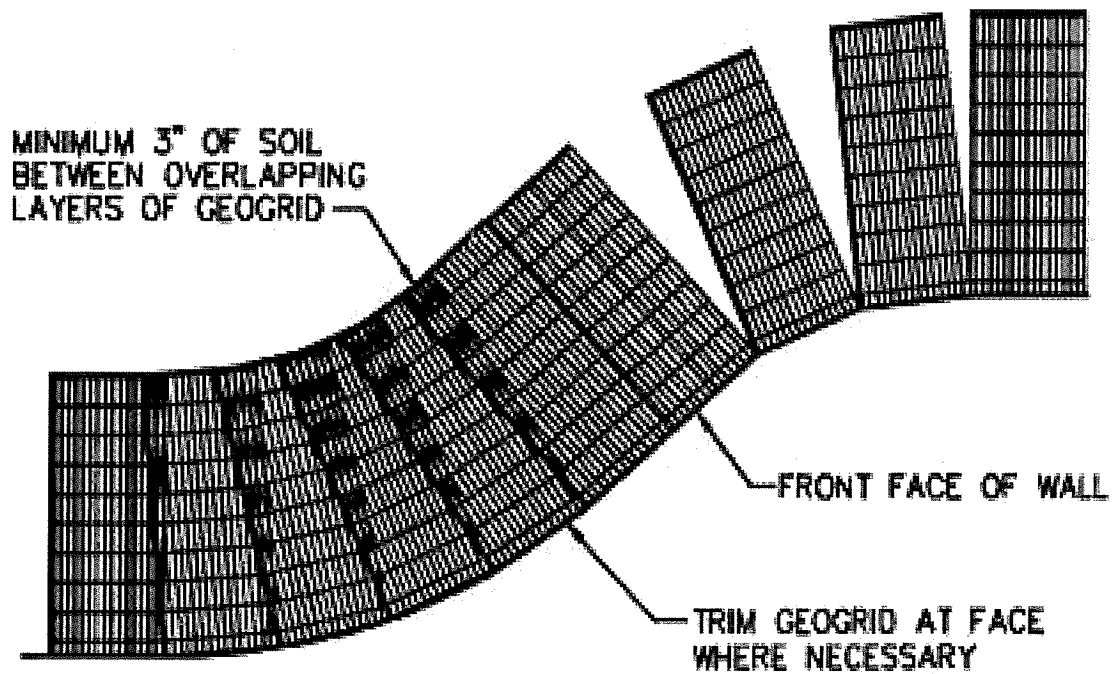
WALL FACE DETAIL  
NOT TO SCALE

Addendum No. 4



**NOTES:**

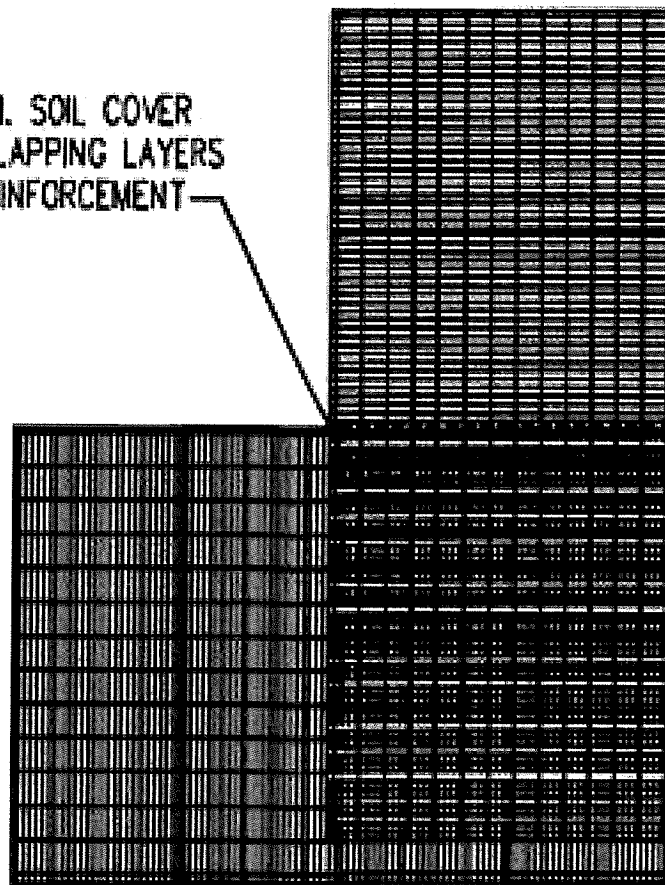
1. FACING TO CONSIST OF PREFABRICATED WWF 4x4-W4.0xW4.0 FORMS PER ASTM A497.
2. ALL FORMS AND STRUTS WILL BE FABRICATED WITH BLACK WIRE.
3. OVERALL LENGTH OF WIRE FORMS IS 10'-0". EFFECTIVE CONSTRUCTED WIDTH IS 9'-8" WITH 4" OVER LAPPING AT ENDS.



GEOGRID PLACEMENT ON CURVES  
NOT TO SCALE



PROVIDE 3" MIN. SOIL COVER  
BETWEEN OVERLAPPING LAYERS  
OF GEOGRID REINFORCEMENT

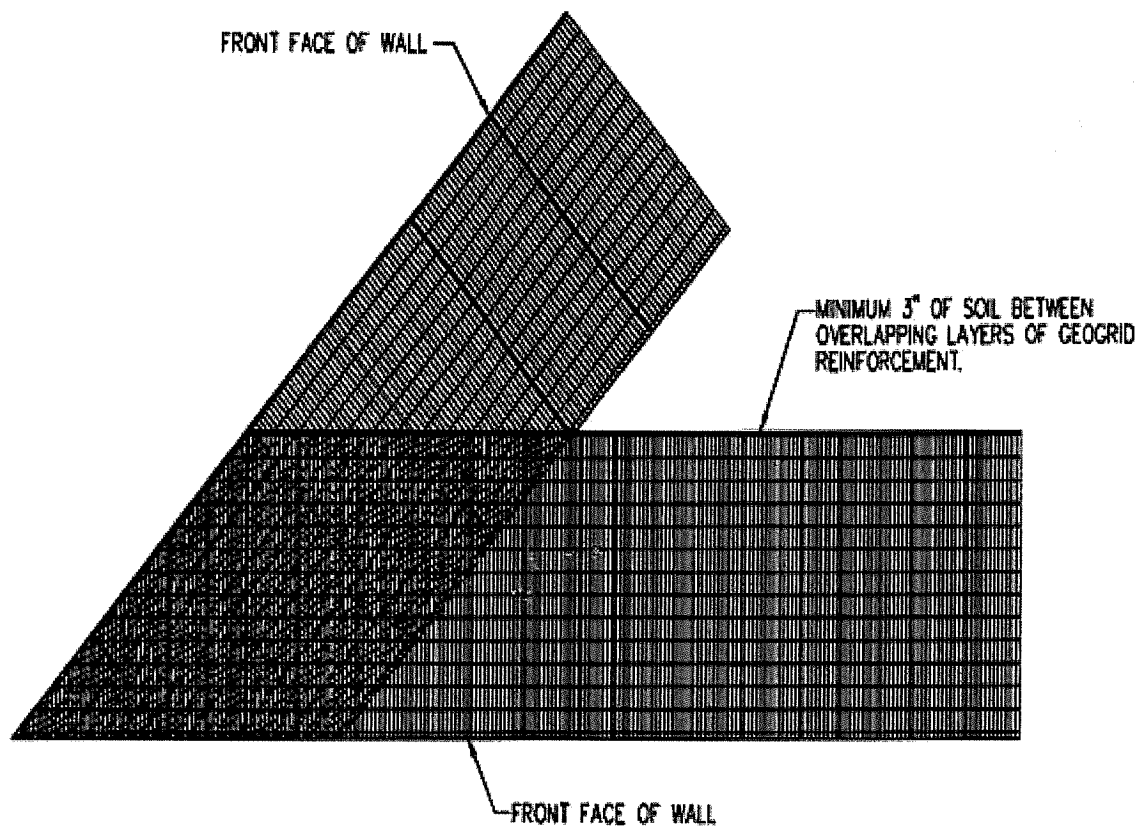


FRONT FACE  
OF WALL

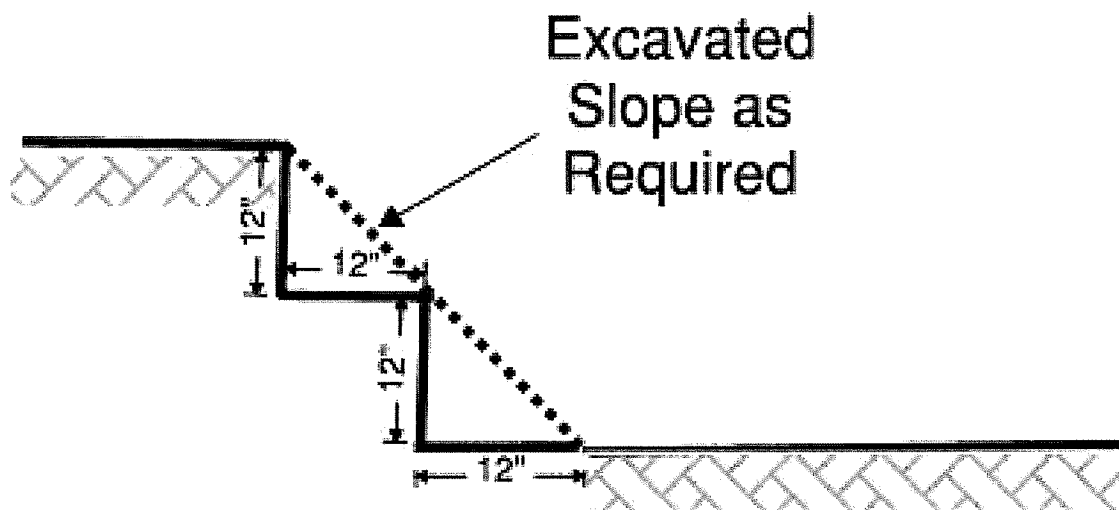
FRONT FACE OF WALL

### GEOGRID 90° CORNER DETAIL

NOT TO SCALE



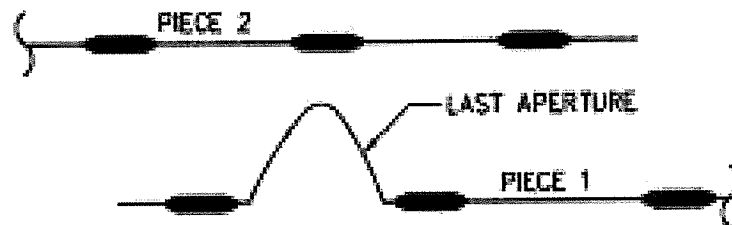
GEOGRID ACUTE CORNER DETAIL  
NOT TO SCALE



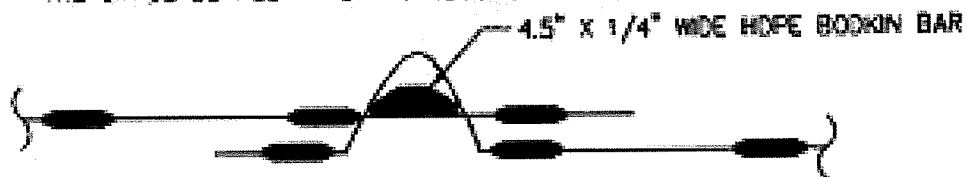
TYPICAL BENCH CUT INTO  
SLOPE AT TRANSITION

TO FORM A BODKIN CONNECTION FOR SPLICING GEOGRID:

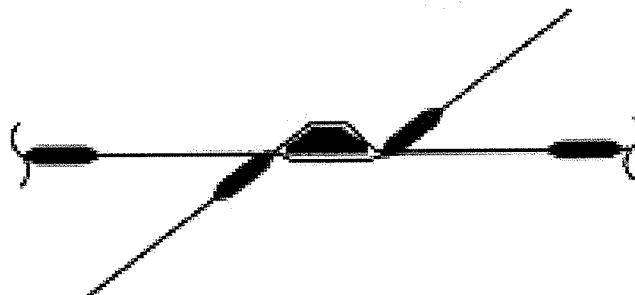
1. BEND THE LAST APERTURE OF ONE PIECE OF GEOGRID AS SHOWN.



2. PASS THE RIBS OF THE BENT APERTURES THROUGH THE RIBS OF THE SECOND PIECE OF GEOGRID AND INSERT THE BODKIN BAR INTO THE SPACE BETWEEN THE TWO GEOGRID LAYERS.



3. PULL GEOGRID TAUT TO TENSION CONNECTION.



**NOTE:**

IT IS RECOMMENDED THAT THE SPLICED GEOGRID PIECE ON EITHER SIDE OF THE BODKIN CONNECTION BE AT LEAST 6 FEET LONG UNLESS THE GEOGRID TERMINATES IN A FIXED CONNECTION

**GEOGRID SPlice BODKIN CONNECTION**

NOT TO SCALE

**CODE 702.9912**  
**INFILTRATION BASIN**

**DESCRIPTION:** Except for the excluded items of work indicated below, the work under this item shall consist of furnishing all labor, materials, tools, equipment and incidentals to construct the infiltration basin as detailed on the plans and as directed by the engineer. The work shall include all excavating soil, placing gravel, placing plantable soil, trimming and fine grading, and seeding for the construction of the infiltration basin. All incidentals required to complete the work as described in the Special Provisions and elsewhere in the Contract Documents complete and in place and accepted by the Engineer.

**Excluded Items of Work:** The item of work is excluded from this item and instead will be measured and paid separately under their own appropriate bid item as listed in the proposal is the 12 inch BCCMP discharging into the swale.

**MATERIALS:**

Gravel Borrow shall be specified on the plans and shall meet the requirements as specified in the RIDOT Standard Specifications for Road and Bridge Construction. Plantable Soil shall be specified on the plans and shall meet the requirements as specified in the RIDOT Standard Specifications for Road and Bridge Construction. Seeding shall be specified on the plans and shall meet the requirements as specified in the RIDOT Standard Specifications for Road and Bridge Construction.

**CONSTRUCTION METHODS:** All construction shall be in accordance with the contract documents and the specifications and in accordance with RIDOT Standard Specifications for Road and Bridge Construction.

Where possible the excavation to remove the original soil shall be accomplished using light equipment with turf-type tires. The use of equipment with narrow tracks or narrow tires, rubber tires with large lugs or high pressure tires is not acceptable

**METHOD OF MEASUREMENT:** The item will not be measured for payment.

**BASIS OF PAYMENT:** Item 702.9912 will be paid for at the contract unit price per lump sum as listed in the proposal. The price so stated shall constitute full and complete the work as described in this Special provision and elsewhere in the contract documents, complete in place and acceptable by the engineer.

**CODE 704.9901**  
**REPAIR CATCH BASIN - RPC**  
**CODE 704.9902**  
**REPAIR CATCH BASIN W/ GUTTER INLET- RCI**  
**CODE 704.9903**  
**REPAIR DOUBLE GRATE CATCH BASIN - RDC**  
**CODE 704.9904**  
**RECONSTRUCT DROP INLET - RPD**  
**CODE 704.9905**  
**RECONSTRUCT MANHOLE- RMH**

**DESCRIPTION:** Work under these items shall consist of repairing the top portion of existing drainage structures in conformity with lines, grades, dimensions and details shown on the plans or as directed by the Engineer.

**MATERIALS:** Clay/concrete brick or concrete block, mortar collars, concrete collars and precast concrete cover panels shall conform to the plans and to Section M. 04. "Materials" of the Standard Specifications.

**CONSTRUCTION METHODS:** The walls of the existing structures are deteriorated. For catch basins located in the median, a new precast concrete cover panel should be placed to support the median barrier. For double grate catch basins located in the median, a new precast concrete cover panel should be placed to support the median barrier. The precast concrete cover panels must be on site before demolition of the catch basins can proceed. The concrete shall be checked for spalling and soundness. All spalled concrete shall be removed and replaced to a depth of 26" minimum. Loose blocks or bricks shall be removed and re-laid in new mortar. The top course of bricks will be removed from every catch basin and discarded. New bricks will be reset as required to adjust the catch basin. The walls of the existing structure shall be repaired as shown on the plans or as directed by the Engineer. The Contractor will point all existing mortar joint exhibiting deterioration or as directed by the Engineer. Any excavation required around the structure shall be done in a manner to cause the least disturbance to the surrounding areas. Brickwork shall be in accordance with the applicable provision of Section 702 of the Standard Specifications. When the mortar has set, the backfill shall be compacted to 95% density as defined in AASHTO T-180, Method A or D. Concrete collars shall be installed as shown on the plans or as directed by the Engineer.

**METHOD OF MEASUREMENT:** "REPAIR CATCH BASIN - RPC", "REPAIR CATCH BASIN W/ GUTTER INLET- RCI", "REPAIR DOUBLE GRATE CATCH BASIN – RDC", "RECONSTRUCT DROP INLET – RPD", and "RECONSTRUCT MANHOLE- RMH" shall be measured for payment by EACH as indicated in the contract documents.

**BASIS OF PAYMENT:** Payment for the quantity determined under the "METHOD OF MEASUREMENT" section will be included in the unit bid item, as designated in the proposal. This payment shall constitute full compensation for all materials, bricks or concrete blocks, precast concrete cover panels, removing, stockpiling and/or disposing excess materials, repairing existing

walls, constructing new walls, pointing existing mortar joints, all excavations and backfill, installing concrete collars, equipment, tools, labor and incidentals necessary to complete the work of this item to the satisfaction of the Engineer.

**CODE 708.9901**  
**CLEAN AND REGRADE JUTE MESH DITCH**  
**CODE 708.9902**  
**CLEAN AND REGRADE DITCH**  
**CODE 708.9905**  
**CLEAN AND REGRADE RIP RAP DITCH**

**DESCRIPTION:** This item of work shall consist of furnishing all equipment, labor, material, and performing all work as required to clean as may be necessary, and regrade the ditch as shown on the plans or as directed by the Engineer.

It is anticipated that the ditches, within the limits of the contract, be cleaned as required.

1. Cleaning will be conducted just prior to the start of any excavation.
2. Cleaning of the ditch shall include the removal from the job site of all sludge, dirt, sand, gravel, roots and grease, and all debris and legally disposed of.
3. The ditch shall be regraded along the centerline to meet the field conditions and to establish positive drainage flow to the outlet.
4. Cleaning of The ditch shall be regrades along the section to meet the field conditions and the materials shall be placed in accordance with the RIDOT standard drawing and the contract documents.

**METHOD OF MEASUREMENT:** "CLEAN AND REGRADE JUTE MESH DITCH", "CLEAN AND REGRADE DITCH" and "CLEAN AND REGRADE RIP RAP DITCH" shall be measured for payment along the centerline of the ditch, complete for cleaning and regarding each type of ditch. Cleaning shall be considered incidental to ditch regrading and the bid price for this item shall include all such cleaning work, debris removal and disposal, where required and/or directed.

**BASIS OF PAYMENT:** "CLEAN AND REGRADE JUTE MESH DITCH", "CLEAN AND REGRADE DITCH" and "CLEAN AND REGRADE RIP RAP DITCH" shall be paid for by the number of linear feet of ditch as specified herein to the satisfaction of the Engineer. The Contract Unit Price shall include all payments for labor, materials, equipment, and appurtenant work necessary to satisfactorily clean and regrade the ditch as specified.



**Table of Contents - Distribution of Quantities**

Project Name - Horton Farm Bridge No. 472

Estimate Name - Addendum No. 4

R.I. Contract No. - 2017-CB-070

FAP Nos: BRO-472(001), STP-RESF(360)

ItemCode	Description	Page
201.0301	CUTTING AND DISPOSING ISOLATED TREES AND STUMPS (4"- 24")	1
201.0302	CUTTING AND DISPOSING ISOLATED TREES AND STUMPS (24" OR PLUS)	1
201.0401	REMOVE AND DISPOSE GRANITE CURB	1
201.0408	REMOVE AND DISPOSE RIGID PAVEMENT	2
201.0409	REMOVE AND DISPOSE FLEXIBLE PAVEMENT	2
201.0414	REMOVE AND DISPOSE PIPE - ALL SIZES	3
201.0415	REMOVE AND DISPOSE GUARDRAIL AND POST ALL TYPES	3
201.0419	REMOVE AND DISPOSE FENCE	4
201.0420	REMOVE AND DISPOSE CONCRETE SLAB	4
201.0421	REMOVE AND DISPOSE BITUMINOUS CURB	4
201.0425	REMOVE AND DISPOSE FLARED END SECTION	6
201.0430	REMOVE AND DISPOSE CONCRETE MEDIAN BARRIER	6
201.0432	REMOVE AND DISPOSE HEADWALL	6
201.0601	REMOVE AND DISPOSE GROUND MOUNTED SIGNS	6
201.0604	REMOVE AND DISPOSE GROUND MOUNTED SIGN POSTS	7
201.0605	REMOVE AND DISPOSE GROUND MOUNTED SIGN BASES	7
201.0610	REMOVE AND DISPOSE DIRECTIONAL, WARNING, REGULATORY, SERVICE, AND STREET SIGNS	7
201.0613	REMOVE AND STOCKPILE LIGHT STANDARDS	7
201.0616	REMOVE AND DISPOSE LIGHT STANDARD FOUNDATIONS	10
201.0622	REMOVE AND DISPOSE OVERHEAD SIGN PANEL	12
201.0623	REMOVE AND DISPOSE OVERHEAD SIGN STRUCTURE	12
201.9901	REMOVE AND DISPOSE HANDHOLE AND RETURN FRAME AND COVER TO RIDOT	12
202.0100	EARTH EXCAVATION	14
202.0600	LOAM EXCAVATION	14
202.0800	GRAVEL BORROW	14
203.0100	STRUCTURAL EXCAVATION EARTH	15
<b>203.0700</b>	<b>** ITEM DELETED **</b>	<b>15</b>
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203.9902	REINFORCED CRUSHED STONE ADJACENT TO STRUCTURES	15
204.0100	TRIMMING AND FINE GRADING	16
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206.0230	BALED HAY EROSION CHECK AND SILT FENCE COMBINED STANDARD 9.3.0	19
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207.0202	BALED HAY DITCH EROSION CHECK STANDARD 9.4.0	19
212.2000	CLEANING AND MAINTENANCE OF EROSION CONTROLS	19
213.0100	PLACEMENT OF MILLINGS BENEATH GUARDRAIL	20
302.0100	GRAVEL BORROW SUBBASE COURSE	20
<b>401.9901</b>	<b>CLASS 19</b>	<b>22</b>
<b>401.9902</b>	<b>MODIFIED CLASS 12.5</b>	<b>22</b>
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410.1000	TEMPORARY PATCHING MATERIAL/TRENCHES	25
601.0200	CLASS XX PORTLAND CEMENT CONCRETE	25
701.7712	12 INCH REINFORCED CONCRETE PIPE END SECTION STANDARD 2.3.0	26
<b>702.0517</b>	<b>FRAME AND GRATE, STANDARD 6.3.2</b>	<b>26</b>
702.0522	FRAME AND COVER STANDARD 6.2.1	26
702.0630	PRECAST MANHOLE 4' DIAMETER STANDARD 4.2.0	26

**Table of Contents - Distribution of Quantities**

Project Name - Horton Farm Bridge No. 472

Estimate Name - Addendum No. 4

R.I. Contract No. - 2017-CB-070

FAP Nos: BRO-472(001), STP-RESF(360)

ItemCode	Description	Page
703.0008	8" PERFORATED CONCRETE PIPE M175 WITH FILTER MATERIAL STANDARD 1.1.0	27
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704.9902	REPAIR CATCH BASIN W/ GUTTER INLET - RCI	29
<b>704.9903</b>	<b>REPAIR DOUBLE GRATE CATCH BASIN - RDC</b>	<b>29</b>
704.9904	RECONSTRUCT DROP INLET - RPD	30
704.9905	RECONSTRUCT MANHOLE - RMH	30
707.0900	ADJUST MANHOLES TO GRADE	31
707.1900	ADJUST FRAME & COVER TO GRADE	31
<b>707.2000</b>	<b>ADJUST FRAME AND GRATE TO GRADE</b>	<b>32</b>
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708.9902	CLEAN AND REGRADE DITCH	42
708.9905	CLEAN AND REGRADE RIP RAP DITCH	42
709.0100	CONCRETE CONNECTING COLLAR STANDARD 1.3.0	42
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906.0117	GRANITE CURB - QUARRY SPLIT 3 FOOT CORNERS	51
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907.0100	WATER FOR DUST CONTROL	54
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923.0200	FLUORESCENT TRAFFIC CONES STANDARD 26.1.0	59
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L02.0101	GENERAL HIGHWAY SEEDING (TYPE 1)	70
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T06.5230	3 INCH SCHEDULE 80 POLYVINYL CHLORIDE PLASTIC CONDUIT - UNDERGROUND	75
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T07.1250	FURNISH AND INSTALL 250 WATT HIGH PRESSURE SODIUM LUMINAIRE	75
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T08.0100	LIGHT STANDARD FOUNDATION WITH ANCHOR BOLTS STANDARD 18.1.0	79
T08.2031	ALUMINUM LIGHTING STD. 30 FT. W/ SINGLE DAVIT ARM EXTN. 10 FT. STANDARD 18.3.0	81
T08.2041	ALUMINUM LIGHTING STD. 40 FT. W/ SINGLE DAVIT ARM EXTN. 10 FT. STANDARD 18.3.0	83
T09.1000	SERVICE PEDESTAL STANDARD 18.4.0	85
T12.9901	MOBILE CAMERA SURVEILLANCE SYSTEM	85
T15.0100	DIRECTIONAL REGULATORY AND WARNING SIGNS	85
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<b>T20.0106</b>	<b>6 INCH YELLOW FAST - DRYING WATERBORNE PAVEMENT MARKING PAINT</b>	<b>88</b>
T20.0820	FAST DRYING WATERBORNE PAVEMENT ARROW - STRAIGHT, LEFT, RIGHT, OR COMBINED STANDARD 20.1.0	88
T20.0822	FAST DRYING WATERBORNE PAVEMENT MARKING WORD "ONLY" STANDARD 20.1.0	89
<b>T20.1000</b>	<b>REMOVE EXISTING PAVEMENT MARKINGS</b>	<b>89</b>
T20.2006	6 INCH EPOXY RESIN PAVEMENT MARKINGS WHITE	89
T20.2008	8 INCH EPOXY RESIN PAVEMENT MARKINGS WHITE	90
T20.2012	12 INCH EPOXY RESIN PAVEMENT MARKINGS WHITE	90
T20.2016	6 INCH EPOXY RESIN PAVEMENT MARKINGS YELLOW	90
T20.2020	EPOXY RESIN PAVEMENT ARROW - STRAIGHT, LEFT, RIGHT, OR COMBINED STANDARD 20.1.0	90
T20.2022	EPOXY RESIN PAVEMENT MARKING WORD "ONLY" STANDARD 20.1.0	91
T20.2054	EPOXY RESIN PAVEMENT MARKING WORD "EXIT"	91
108.9901	ICT, HORTON FARM ROAD BRIDGE NO. 472	91
936.9901	MOBILIZATION	92
402.9901	FRICTION COURSE	92
402.9902	FRICTION COURSE FOR SHOULDERS	93
<b>701.0412</b>	<b>REINFORCED CONCRETE PIPE M 170 CLASS III 12 INCH</b>	<b>93</b>

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702.0512	FRAME AND GRATE STANDARD 6.3.0	94
702.0605	PRECAST CATCH BASIN 4' DIAMETER STANDARD 4.4.0	94
702.9912	INFILTRATION BASIN	94
704.0300	RECONSTRUCT CATCH BASIN/VERTICAL WALLS	94
704.0400	RECONSTRUCT MANHOLE/VERTICAL WALLS	94

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FAP Nos: BRO-472(001), STP-RESF(360)

Item No.	Item Code	Description	UM	Qty.	Pay Code	Seq. No.
106	925.0112 Cont.	STAGE 2E		4.00	0005	01
		STAGE 2F		5.00	0005	01
		STAGE 2H		4.00	0005	01
		STAGE 2I		4.00	0005	01
		ROUNDING				
		PROJECT WIDE		8.00	0005	01
Item 925.0112 Total:				120.00		
107	926.0120	ANCHORED PRECAST CONCRETE BARRIER	LF			
		FOR TEMPORARY TRAFFIC CONTROL				
		BRIDGE NO. 472				
		PROJECT WIDE		600.00	0011	02
Item 926.0120 Total:				600.00		
108	926.0121	UNANCHORED PRECAST CONCRETE	LF			
		BARRIER FOR TEMPORARY TRAFFIC				
		CONTROL STANDARD 40.5.0				
		LANE F				
		STAGE 2A THROUGH 2D		385.00	0005	01
		ROUNDING				
		PROJECT WIDE		30.00	0005	01
		STAGE 1D/2D (MAX FOR STAGE 1/2)				
		I-195 110+40 TO 134+10, RT		2,370.00	0005	01
		I-195 119+50 TO 127+50, LT		815.00	0005	01
Item 926.0121 Total:				3,600.00		
109	926.0140	REFLECTIVE DELINEATORS FOR	EACH			
		TEMPORARY CONCRETE BARRIERS				
		CONTINGENCY				
		PROJECT WIDE		72.00	0005	01
		FROM ITEM 926.0140				
		ASSUME EVERY 50 FT		144.00	0005	01
		ROUNDING				

**Distribution of Quantities**

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FAP Nos: BRO-472(001), STP-RESF(360)

Item No.	Item Code	Description	UM	Qty.	Pay Code	Seq. No.
172	402.9901 Cont.	73+13 TO 83+00, LT/RT		193.00	0005	01
		RAMP CR-5				
		83+43 TO 92+41, LT/RT		236.00	0005	01
		RAMP CR-6				
		115+50 TO 123+50, LT/RT		319.00	0005	01
		RAMP DR-5				
		70+23 TO 78+13, LT/RT		147.00	0005	01
		RAMP DR-6				
		95+41 TO 100+80, LT/RT		68.00	0005	01
		ROUNDING				
		PROJECT WIDE		3.00	0005	01
Item 402.9901 Total:				8,645.00		
173	402.9902	FRICTION COURSE FOR SHOULDERS	TON			
		I-195 EB				
		70+87 TO 159+20, RT		1,343.00	0005	01
		I-195 WB				
		70+87 TO 159+20, LT		1,281.00	0005	01
		ROUNDING				
		PROJECT WIDE		1.00	0005	01
Item 402.9902 Total:				2,625.00		
174	701.0412	REINFORCED CONCRETE PIPE M 170	LF			
		CLASS III 12 INCH				
		PAWTUCKET AVE				
		40+30, RT		225.00	0005	01
Item 701.0412 Total:				225.00		
175	701.2112	12'' BCCMCP M190 TYPE B W/BENDS	LF			
		AND BANDS				
		LANE F				
		25+50, RT		15.00	0005	01
		26+50, RT		82.00	0005	01

**Distribution of Quantities**

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Item No.	Item Code	Description	UM	Qty.	Pay Code	Seq. No.
175	701.2112 Cont.	ROUNDING				
		PROJECT WIDE		3.00	0005	01
Item 701.2112 Total:				100.00		
176	702.0512	FRAME AND GRATE STANDARD 6.3.0	EACH			
		PROJECT WIDE				
		PROJECT WIDE		2.00	0005	01
Item 702.0512 Total:				2.00		
177	702.0605	PRECAST CATCH BASIN 4' DIAMETER	EACH			
		STANDARD 4.4.0				
		PROJECT WIDE				
		PROJECT WIDE		2.00	0005	01
Item 702.0605 Total:				2.00		
178	702.9912	INFILTRATION BASIN	LS			
		I-195				
		122+38 TO 123+34, RT		1.00	0005	01
Item 702.9912 Total:				1.00		
179	704.0300	RECONSTRUCT CATCH BASIN/VERTICAL WALLS	VLF			
		PROJECT WIDE				
		PROJECT WIDE		102.00	0005	01
Item 704.0300 Total:				102.00		
180	704.0400	RECONSTRUCT MANHOLE/VERTICAL WALLS	VLF			
		PROJECT WIDE				
		PROJECT WIDE		17.00	0005	01
Item 704.0400 Total:				17.00		



FED. ROAD DIV. NO.	STATE	FEDERAL AID PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
	RI	STP-RESF(360)	2017	5	144

JOB SPECIFIC LEGEND

6YT	6' TEMPORARY PAVEMENT REMOVABLE TAPE -- YELLOW
6W	6" EPOXY RESIN PAVEMENT MARKING -- WHITE
8W	8" EPOXY RESIN PAVEMENT MARKING -- WHITE
3.3.5	BRICK/SOLID BLOCK DOUBLE GRATE CATCH BASIN GRATE PERPENDICULAR TO EDGE OF PAVEMENT
7.3.9	GRANITE RAMP STONE
7.3.9C	GRANITE RAMP STONE CURVED
20.1.0	PAVEMENT MARKINGS ARROWS AND ONLY
24.1.0	SIGN POST SELECTION AND INSTALLATION DETAILS SQUARE POST (SIGNS UP TO 8'-0"W X 4'-0"H)
24.2.0	SIGN POST SELECTION AND INSTALLATION DETAILS U-CHANNEL POST (SIGNS UP TO 8'-0"W X 4'-0"H)
26.1.0	FLUORESCENT TRAFFIC CONE
34.3.7	GUARDRAIL CONNECTION TO BARRIER -- APPROACH END SECTION
34.3.8	GUARDRAIL CONNECTION TO BARRIER -- TRAILING END SECTION
CCS	CEMENT CONCRETE SURFACE (ITEM CODE 904.0110)
CDF	CONTROL DENSITY FILL
CDI	CLEAN DROP INLET
CGI	CLEAN GUTTER INLET
CRD	CLEAN AND REGRADE DITCH (ITEM CODE 708.9902)
CS	CRUSHED STONE
CST	CONCRETE SURFACE TREATMENT
DCS	REMOVE AND DISPOSE CONCRETE SURFACE
DEC	REMOVE AND DISPOSE CONDUIT -- ALL SIZES
DGC	REMOVE AND DISPOSE GRANITE CURB
DT (SIZE)	CUTTING AND DISPOSING ISOLATED TREES AND STUMPS (ITEM CODE 201.0301 OR 201.0302)
ETR	EXISTING TO REMAIN
FDC	1.5" FRICTION COURSE 2" MODIFIED CLASS 12.5 9" CLASS 19 12" GRAVEL BORROW SUBBASE
FDCC	1.5" FRICTION COURSE 2" MODIFIED CLASS 12.5 10" CEMENT CONCRETE 12" GRAVEL BORROW SUBBASE
JMD	CLEAN AND REGRADE JUTE MESH DITCH (ITEM CODE 708.9901)
MMO	MICRO-MILLING 2.2" AND OVERLAY WITH 1.5" FRICTION COURSE
MUL	MULCH
NGB	FURNISH AND INSTALL NEW GAS GATE VALVE BOX
PF	PERVIOUS FILL (ITEM CODE 203.0700)
PT-2	PAVEMENT TRANSITION -- FULL DEPTH TO EXISTING
PT-3	PAVEMENT TRANSITION -- MICRO-MILLING TO EXISTING
RC	REPAIR CONCRETE AS NEEDED
RCC	REMOVE AND STOCKPILE CURB CORNER
RCG	REMOVE AND DISPOSE CONCRETE GORE
RCI	REPAIR CATCH BASIN WITH GUTTER INLET
RDC	REPAIR DOUBLE GRATE CATCH BASIN
RDI	RECONSTRUCT DROP INLET
RMH	RECONSTRUCT MANHOLE
RPC	REPAIR CATCH BASIN
RPD	REPAIR DROP INLET
RPM	REPAIR MANHOLE
RRD	CLEAN AND REGRADE RIP RAP DITCH
RS	RUMBLE STRIP
S-1	FULL DEPTH SAWCUT OF BITUMINOUS PAVEMENT
S-2	FULL DEPTH SAWCUT OF CONCRETE SIDEWALK
	SLOPE RESTORATION AREA
TP-X	PROPOSED TEST PIT
MMOS	MICRO-MILLING 2.2" AND OVERLAY WITH 1.5" FRICTION COURSE FOR SHOULDERS
RCS	REMOVE CONCRETE SLAB

JOB SPECIFIC LEGEND - LIGHTING

2CL	250 WATT HPS CUTOFF LUMINAIRE ON 30' ALUMINUM POLE 6' ARM (ITEM CODE T07.990 & T08.200)
4CL	400 WATT HPS CUTOFF LUMINAIRE ON 40' ALUMINUM POLE 10' ARM (ITEM CODE T07.9901 & T08.2041)
DHH	REMOVE AND DISPOSE HANDHOLE AND RETURN FRAME AND COVER TO RIDOT
R.S.	RIGID STEEL
S/L	SERVICE LINE
UG	UNDERGROUND
R&S	REMOVE AND STOCKPILE POLE/LUMINAIRE AT RIDOT MAINTENANCE DEPT. 300 LINCOLN AVENUE, WARWICK
R&D	REMOVE AND DISPOSE STANDARD FOUNDATION
18.1.0	CONCRETE LIGHT STANDARD BASE
18.1.1	BREAKAWAY SUPPORT COUPLINGS FOR LIGHT STANDARDS
18.2.2	PRECAST TYPE "B" HEAVY DUTY HANDHOLE
18.3.1	ALUMINUM POLE -- GROUNDING DETAIL
18.3.2	TYPICAL LUMINAIRE -- WIRING DETAIL
18.4.0	SERVICE PEDESTAL
18.4.1	SERVICE PEDESTAL -- GROUNDING DETAIL
18.4.2 MOD	SERVICE PEDESTAL -- 240/480 VOLTS -- 3W (SWITCHGEAR DETAIL)
18.4.3 MOD	SERVICE PEDESTAL -- 240/480 VOLTS -- 3W (POWER SCHEMATIC)
18.4.6	SERVICE PEDESTAL FOUNDATION
18.6.1	LIGHTING CONDUIT -- ROAD / RAMP CROSSING
18.6.3	PULLBOXES -- TYPE "V" AND TYPE "W"
18.7.0	RISER POLE DETAIL
C	COMMUNICATION CONDUIT

JOB SPECIFIC GENERAL NOTES:

- ALL SUBCONTRACTORS EMPLOYED BY THE CONTRACTOR OR R.I.D.O.T. ON THIS PROJECT SHALL WORK WITHIN THE SAME PROTECTED WORK AREAS AS THE CONTRACTOR. NO SEPARATE LANE CLOSURES WILL BE PAID FOR.
- THE CONTRACTOR SHALL FIELD VERIFY ALL EXISTING STORM DRAIN PIPE SIZES WHERE NEEDED TO COMPLETE THE WORK.
- IT IS THE INTENT OF THE PROPOSED DRAINAGE DESIGN TO AVOID EXISTING UTILITIES. AT LOCATIONS WHERE THERE IS AN UNANTICIPATED CONFLICT, THE CONTRACTOR SHALL, WHERE POSSIBLE AND AS DIRECTED BY THE ENGINEER, MODIFY THE DRAINAGE STRUCTURES SUCH THAT THE PROPOSED DRAINAGE AVOIDS THE UTILITY.
- SANITARY SEWER, GAS, WATER AND OTHER UTILITY SERVICES SHALL BE MAINTAINED AT ALL TIMES DURING CONSTRUCTION.
- IT IS THE CONTRACTOR'S RESPONSIBILITY TO ENSURE THAT ALL RELOCATED UTILITY POLES ARE PROPERLY STABILIZED DURING EACH PHASE OF CONSTRUCTION.
- THE FINAL LOCATION OF ALL WHEELCHAIR RAMPS MUST BE COORDINATED, IN THE FIELD, WITH THE PROPOSED LOCATIONS OF UTILITY POLES, LANDSCAPING, DRAINAGE GRATES AND COVERS TO ENSURE A CLEAR PEDESTRIAN PATH.
- THE CONTRACTOR SHALL BE RESPONSIBLE TO COORDINATE WITH THE PROPER UTILITY AGENCIES FOR THE SEQUENCE OF CONSTRUCTION TO REMOVE THE EXISTING STREET LIGHTING AND THE INSTALLATION OF NEW STREET LIGHTING. STREET AND SIDEWALK LIGHTING MUST BE PROVIDED AT ALL TIMES.
- THE CONTRACTOR SHALL NOT STORE EQUIPMENT OR MATERIALS WITHIN THE DRIP LINE OF ANY TREES OR SHRUBS.
- ALL ITEMS NOT REFERENCED FOR MODIFICATION WILL BE "EXISTING TO REMAIN" UNLESS OTHERWISE DIRECTED BY THE ENGINEER.
- THE CONTRACTOR SHALL PLACE ALL EQUIPMENT AND STOCKPILED MATERIAL A MINIMUM DISTANCE OF 30 FEET FROM THE I-195 MAINLINE, AND 10 FEET FROM THE PAWTUCKET AVENUE OUTSIDE EDGE OF TRAVEL LANE SO AS NOT TO CAUSE A SAFETY HAZARD. ALL STORAGE AND LAYDOWN AREAS REQUIRE APPROVAL BY THE ENGINEER. ALL WORKZONES SHALL BE BEHIND BARRIERS AS SHOWN ON THE MAINTENANCE AND PROTECTION OF TRAFFIC PLANS.
- THE FREQUENCY AND APPLICATION RATES FOR WATER FOR DUST CONTROL SHALL BE DETERMINED BY THE ENGINEER. PAID FOR UNDER ITEM CODE 906.0100. NO CALCIUM CHLORIDE FOR DUST CONTROL SHALL BE USED ON THIS PROJECT.
- THE CONTRACTOR SHALL EXERCISE CARE WHEN WORKING IN THE AREA OF EXISTING HIGHWAY BOUNDS. ANY HIGHWAY BOUNDS DISTURBED OR DESTROYED AS A RESULT OF THE CONTRACTOR'S ACTIONS SHALL BE RESET OR REPLACED BY THE CONTRACTOR AS DIRECTED BY THE ENGINEER AND IN CONFORMANCE WITH SECTION 915. OF THE R.I. STANDARD SPECIFICATIONS. SAID RESETING OR REPLACING OF BOUND REQUIRED SHALL BE AT THE CONTRACTOR'S EXPENSE.
- NO LONGITUDINAL DROP-OFFS WILL BE ALLOWED TO REMAIN BETWEEN LANES DURING NON-CONSTRUCTION HOURS. THE CONTRACTOR SHALL SCHEDULE THE MICROMILLING OPERATIONS TO PROVIDE A CONSISTENT FULL-WIDTH PAVEMENT SURFACE AT THE END OF THE WORK DAY.

JOB SPECIFIC GENERAL NOTES - DRAINAGE & UTILITY:

- ALL EROSION CONTROL MEASURES SHALL BE PUT IN PLACE PRIOR TO COMMENCING WORK.
- ALL REINFORCED CONCRETE PIPE SHALL BE AASHTO. CLASS III WITH MORTAR JOINTS UNLESS OTHERWISE NOTED.
- ALL EXISTING DRAIN PIPES, CATCH BASINS, AND DRAIN MANHOLES TO REMAIN WITHIN THE PROJECT LIMITS ARE TO BE CLEANED AS NEEDED IN ACCORDANCE WITH THE SPECIFICATIONS OR AS DIRECTED BY THE ENGINEER.
- EXISTING PIPE INVERT ELEVATIONS SHOWN ON THE DRAINAGE AND UTILITY PLANS ARE APPROXIMATE.
- ADJUSTMENTS TO BE MADE TO NARRAGANSETT BAY COMMISSION (NBC) MANHOLE FRAMES AND COVERS WILL REQUIRE A NBC SEWER ALTERATION PERMIT. SEE CS PAGES.
- DRAINAGE STRUCTURES NEEDING TO BE RECONSTRUCTED, AS INDICATED ON THE PLANS, SHALL BE RECONSTRUCTED PRIOR TO PLACING ANY TEMPORARY TRAFFIC OVER THAT STRUCTURE.

JOB SPECIFIC GENERAL NOTES - SIGNS:

- PRIOR TO INSTALLATION, ALL SIGNS, MOUNTINGS AND LOCATIONS SHALL BE APPROVED BY THE ENGINEER.
- ALL NEW AND RELOCATED SIGNS SHALL BE MOUNTED AT THE BACK OF CURB OR LOCATED AS DIRECTED BY THE ENGINEER.
- ALL SIGNS AND PAVEMENT MARKINGS SHALL CONFORM TO THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES 2009 EDITION WITH THE LATEST REVISIONS.

JOB SPECIFIC GENERAL NOTES - PAVEMENT MARKINGS:

TEMPORARY PAVEMENT MARKINGS:

- THE CONTRACTOR SHALL PROVIDE 15 MIL THICK WATERBORNE PAINT PAVEMENT MARKINGS TO MATCH THE FINAL COLORS, WIDTHS AND LOCATIONS. ON THE ROADWAY MICRO MILLING SURFACES AND THE BASE AND INTERMEDIATE BITUMINOUS SURFACE COURSES OF NEWLY PAVED ROADWAYS WHICH WILL BE OPENED TO TRAFFIC AT THE COMPLETION OF EACH DAY'S PAVING OPERATION. THESE WATERBORNE PAVEMENT MARKINGS SHALL ALSO BE USED ON EXISTING ROADWAY SURFACES, WHICH ARE IN NEED OF RE-STRIPING BUT ARE SCHEDULED TO BE REPAVED WITHIN A YEAR.
- THE CONTRACTOR SHALL PROVIDE 8 MIL THICK TEMPORARY WATERBORNE PAINT PAVEMENT MARKINGS ON THE FINAL SURFACE COURSE OF NEWLY PAVED ROADWAYS THAT WILL BE OPENED TO TRAFFIC AT THE COMPLETION OF EACH DAY'S PAVING OPERATION.
- ALL TEMPORARY PAVEMENT MARKINGS THAT ARE NO LONGER APPLICABLE SHALL BE REMOVED, AND NEW PAVEMENT MARKINGS SHALL BE PLACED PRIOR TO ALLOWING TRAFFIC TO TRAVEL ON THE AFFECTED ROAD.
- EXISTING EPOXY PAVEMENT MARKINGS AND CONFLICTING WATERBORNE PAVEMENT MARKINGS SHALL BE REMOVED BY GRINDING THE MARKINGS OFF THE PAVEMENT. THIS SHALL BE PAID FOR UNDER ITEM CODE T20.1000.

PERMANENT PAVEMENT MARKINGS:

- THE INSTALLATION OF PERMANENT PAVEMENT MARKINGS WILL NOT BE ALLOWED PRIOR TO THE COMPLETE PLACEMENT OF THE FINAL RIDING SURFACE WITHIN THE PROJECT LIMIT.
- PERMANENT PAVEMENT MARKINGS SHALL BE WHITE AND YELLOW EPOXY RESIN PAVEMENT MARKINGS AT THE LOCATIONS INDICATED IN THE PLANS. THE EPOXY PAVEMENT MARKINGS SHALL BE PLACED ON THE FINAL SURFACE COURSE NO SOONER THAN 2 WEEKS, BUT NO LATER THAN 4 WEEKS FROM THE COMPLETION OF PAVING OPERATION.

JOB SPECIFIC GENERAL NOTES - ELECTRICAL:

- ALL ELECTRICAL WORK SHALL CONFORM TO THE LATEST REVISION OF THE NATIONAL ELECTRICAL CODE, STATE OF RHODE ISLAND, AND THE CITY OF EAST PROVIDENCE ELECTRICAL STANDARDS AND CODES.
- ALL WORK SHALL BE COORDINATED WITH LOCAL PUBLIC UTILITIES. NO CONSTRUCTION SHALL COMMENCE UNTIL THE CONTRACTOR HAS NOTIFIED DIG-SAFE AND ALL UTILITIES HAVE BEEN PROPERLY IDENTIFIED. COORDINATE ELECTRICAL WORK WITH NARRAGANSETT ELECTRIC CO., A NATIONAL GRID CO., THROUGH THOMAS CAPOBIANCO AT TEL. (401) 784-7248.
- ALL LIGHTING CONDUITS ARE TO BE 3" PVC SCH. 40, EXCEPT WHERE OTHERWISE SHOWN, AND SHALL BE INSTALLED AT A DEPTH OF 24" BELOW GRADE FOR DIRECT BURIED INSTALLATIONS. INSTALL NYLON PULLING ROPE IN ALL SPARE CONDUITS FOR FUTURE USE. COMMUNICATIONS CONDUITS SHALL BE 4" PVC SCH. 40, EXCEPT WHERE OTHERWISE SHOWN. MAINTAIN CONDUIT SEPARATION AS SHOWN IN DETAILS.
- PROVIDE ENOUGH SLACK (CABLE) AT ALL HANDHOLES AND PULLBOXES TO ALLOW FOR SPLICING AND REPAIRS TO BE MADE.
- IDENTIFY AND TAG ALL CIRCUITS AT EACH HANDHOLE AND PULLBOX. PROVIDE NUMBERING TAGS ACCORDING TO CIRCUIT DESIGNATION AND AS SHOWN ON THE PLANS.

JOB SPECIFIC GENERAL NOTES - LIGHTING DEMOLITION:

- THE CONTRACTOR SHALL DISCONNECT, REMOVE AND DISPOSE OF ALL EXISTING CONDUCTORS AND DOUBLE DAVIT LIGHTING STANDARDS AND LUMINAIRES FROM STA. 70+90 TO STA. 119+30.

JOB SPECIFIC GENERAL NOTES - SITE RESTORATION:

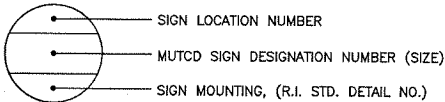
- ALL PUBLIC AND PRIVATE PROPERTY WITHIN OR ADJACENT TO THE PROJECT LIMITS DISTURBED BY THE CONTRACTOR'S OPERATIONS SHALL BE RESTORED TO ITS PRE-CONSTRUCTION CONDITION BY THE CONTRACTOR TO THE SATISFACTION OF THE ENGINEER. ALL RESTORATION SHALL BE IN ACCORDANCE WITH THE APPLICABLE PROVISIONS OF THE RHODE ISLAND STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION 2004 EDITION WITH AMENDMENTS. THE COST OF RESTORATION SHALL BE INCLUDED IN THE PRICES BID FOR OTHER SCHEDULED ITEMS OF WORK AND NO SEPARATE PAYMENT SHALL BE MADE.

JOB SPECIFIC GENERAL NOTES - SURVEY:

- PRIOR TO THE REMOVAL OF ANY EXISTING ROADWAY OR CURBING, THE CONTRACTOR MUST COORDINATE WITH THE RESIDENT ENGINEER AND THE RIDOT SURVEY SECTION. CONSTRUCTION LAYOUT SHALL BE PREFORMED BY THE CONTRACTOR.
- SURVEY TRAVERSE FOR THE LOCATION OF BRIDGES NOS. 471 & 472 WAS PERFORMED BY BRYANT ASSOCIATES IN JANUARY 2013. HUBS WITH TACKS SET ARE FOR TEMPORARY CONTROL AND SHALL BE VERIFIED PRIOR TO CONSTRUCTION LAYOUT USE.

TYPICAL SIGN DESIGNATION SYMBOL

PROPOSED SIGN



REVISIONS			RHODE ISLAND	
NO.	DATE	BY	DEPARTMENT OF TRANSPORTATION	
			IMPROVEMENTS TO I-195	
			ABC BRIDGE NO. 472 OVER I-195	
			SUPERSTRUCTURE REPLACEMENT	
			EAST PROVIDENCE, RHODE ISLAND	
			JOB-SPECIFIC PLAN SYMBOLS, LEGEND & NOTES	
			CHECKED BY PWS DATE 6/1/17 SCALE NO SCALE	



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P.I. COORDINATE DATA		
No.	NORTHING	EASTING
P.I. #8	265478.7553	368203.5276
P.I. #9	265081.0447	368621.7870

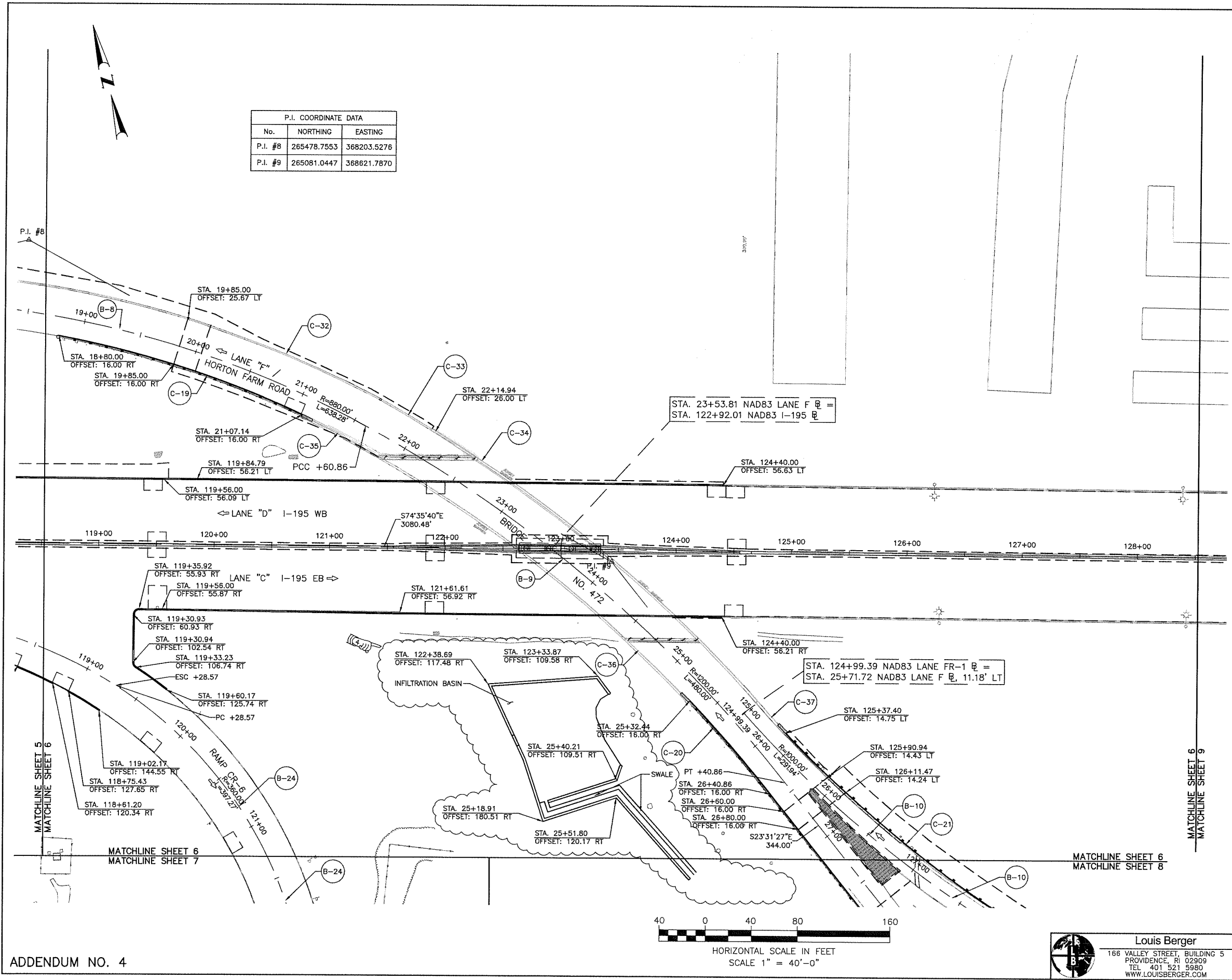
CONSTRUCTION CURVE COORDINATE DATA			
CURVE	DESCRIPTION	NORTHING	EASTING
B-8	PC STA 15+22.58	265490.4070	367869.8223
	CC	264610.9430	367839.1147
	PCC STA 21+60.86	265248.6651	368445.5060
B-9	PCC STA 21+60.86	265248.6651	368445.5060
	CC	264379.0440	367618.6087
	PT STA 26+40.86	264858.0090	368718.8780
B-10	PC STA 124+99.39	264925.6221	368699.4465
	CC	265376.8724	369591.8439
	PT STA 127+91.33	264687.8742	368867.0809
B-24	PC STA 119+28.57	265086.7884	368179.4184
	CC	264842.3631	367915.1456
	PT STA 123+25.84	264716.4973	368252.4016

CONSTRUCTION CURVE DATA				
CURVE	RADIUS	LENGTH	TANGENT	DELTA
B-8	880.00'	638.28'	333.91'	41°-33'-28"
B-9	1200.00'	480.00'	243.25'	22°-55'-06"
B-10	1000.00'	291.94'	147.02'	16°-43'-37"
B-24	359.98'	397.27'	221.60'	63°-13'-53"

PROPOSED CONSTRUCTION CURVE DATA				
CURVE	RADIUS	LENGTH	TANGENT	DELTA
C-19	864.00'	223.01'	112.13'	14°-47'-20"
C-20	1184.00'	106.98'	53.52'	5°-10'-36"
C-21	1080.53'	278.20'	139.87'	14°-45'-07"
C-32	890.11'	181.03'	90.83'	11°-39'-11"
C-33	1226.00'	55.25'	27.63'	2°-34'-56"
C-34	1226.00'	364.70'	183.71'	17°-02'-38"
C-35	864.00'	52.74'	26.38'	3°-29'-52"
C-36	1184.00'	366.62'	184.79'	17°-44'-29"
C-37	1080.53'	37.25'	18.63'	1°-58'-30"

NOTE:  
1. IN AREAS OF PAV & MMO  
PROPOSED EDGE TREATMENTS SHALL BE  
CONSTRUCTED AT THE SAME LOCATION  
AS EXISTING UNLESS OTHERWISE NOTED.

REVISIONS			RHODE ISLAND DEPARTMENT OF TRANSPORTATION	
NO.	DATE	BY	IMPROVEMENTS TO I-195 ABC BRIDGE NO. 472 OVER I-195 SUPERSTRUCTURE REPLACEMENT EAST PROVIDENCE, RHODE ISLAND	
			LOCATION PLAN	
			SHEET 6 OF 11	
			CHECKED BY PWS DATE 6/1/17 SCALE 1"=40'	



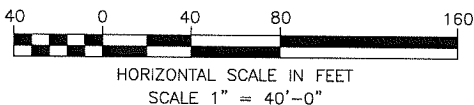
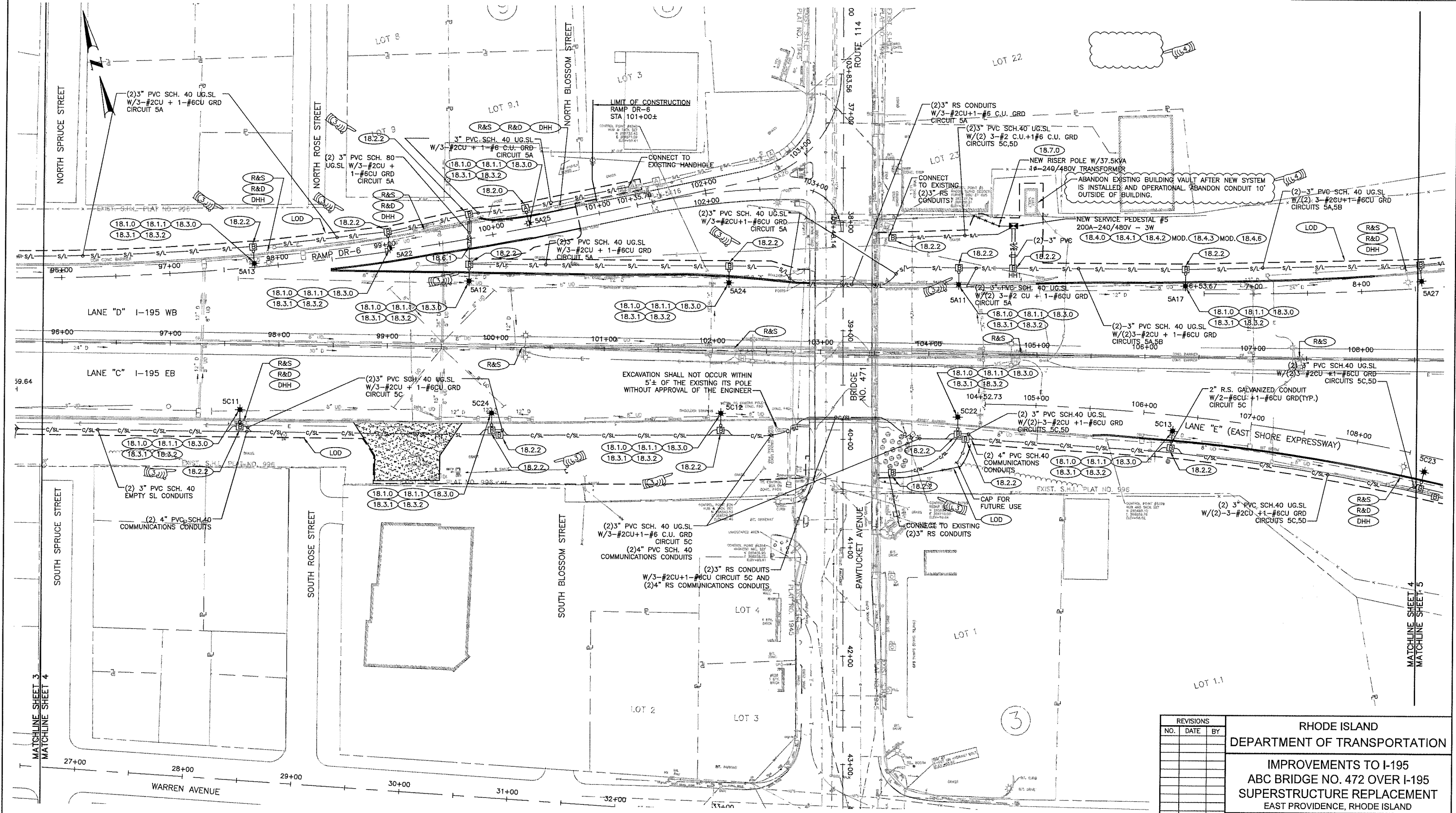
ADDENDUM NO. 4

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REVISIONS			RHODE ISLAND	
NO.	DATE	BY	DEPARTMENT OF TRANSPORTATION	
			IMPROVEMENTS TO I-195	
			ABC BRIDGE NO. 472 OVER I-195	
			SUPERSTRUCTURE REPLACEMENT	
			EAST PROVIDENCE, RHODE ISLAND	
			LIGHTING PLAN	
			SHEET 4 OF 11	
CHECKED BY			DATE	SCALE 1"=40'

# INDEX

## BRIDGE PLAN SET HORTON FARM ROAD BRIDGE NO. 472 SUPERSTRUCTURE REPLACEMENT

SHEET NO.	DESCRIPTION
VOLUME 1	HIGHWAY PLANS
	FOR INDEX SEE "HIGHWAY PLANS VOLUME 1"
VOLUME 2	HORTON FARM ROAD BRIDGE NO. 472
1	COVER SHEET & INDEX
2	BRIDGE ABBREVIATIONS AND GENERAL LEGEND
3	PROFILES
4	GENERAL BRIDGE NOTES SHEET 1 OF 3
5	GENERAL BRIDGE NOTES SHEET 2 OF 3
6	GENERAL BRIDGE NOTES SHEET 3 OF 3
7	GENERAL PLAN AND ELEVATION
8	TYPICAL BRIDGE AND APPROACH SECTIONS
9	CONSTRUCTION STAGING & DEMOLITION DETAILS SHEET 1 OF 3
10	CONSTRUCTION STAGING & DEMOLITION DETAILS SHEET 2 OF 3
11	CONSTRUCTION STAGING & DEMOLITION DETAILS SHEET 3 OF 3
12	ANCHORED PRECAST CONCRETE BARRIER FOR TEMPORARY TRAFFIC CONTROL
13	TEMPORARY PROTECTIVE SHIELDING DETAILS
14	ABUTMENT AND PIER DEMOLITION PLAN
15	NORTH ABUTMENT DEMOLITION
16	SOUTH ABUTMENT DEMOLITION
17	WINGWALL DEMOLITION SHEET 1 OF 3
18	WINGWALL DEMOLITION SHEET 2 OF 3
19	WINGWALL DEMOLITION SHEET 3 OF 3
20	PIER DEMOLITION
21	REHABILITATION DETAILS
22	NORTH ABUTMENT PLAN AND ELEVATION
23	SOUTH ABUTMENT PLAN AND ELEVATION
24	ABUTMENT DETAILS
25	WINGWALL DETAILS SHEET 1 OF 3
26	WINGWALL DETAILS SHEET 2 OF 3
27	WINGWALL DETAILS SHEET 3 OF 3
28	GEOGRID PLAN AND DETAILS
29	PIER PLAN AND ELEVATION
30	PIER SECTIONS AND DETAILS SHEET 1 OF 2
31	PIER SECTIONS AND DETAILS SHEET 2 OF 2
32	DELETED
33	FRAMING PLAN
34	GIRDER ELEVATION AND DETAILS
35	STEEL DETAILS
36	DIAPHRAGM DETAILS
37	CAMBER TABLE
38	DECK GRADES
39	DECK PLAN
39A	DECK POUR SEQUENCE PLAN AND DETAILS
40	DECK REINFORCEMENT DETAILS
41	DELETED
42	DELETED
43	REINFORCING DETAILS
44	BEARING DETAILS SHEET 1 OF 3
45	BEARING DETAILS SHEET 2 OF 3
46	BEARING DETAILS SHEET 3 OF 3
47	ROADWAY JOINTS
48	SNOW FENCE DETAILS
49	LIGHT STANDARD DETAILS
50	END POST DETAILS
51	BORING LOGS SHEET 1 OF 2
52	BORING LOGS SHEET 2 OF 2
53	TEST PIT LOGS

STATE OF RHODE ISLAND



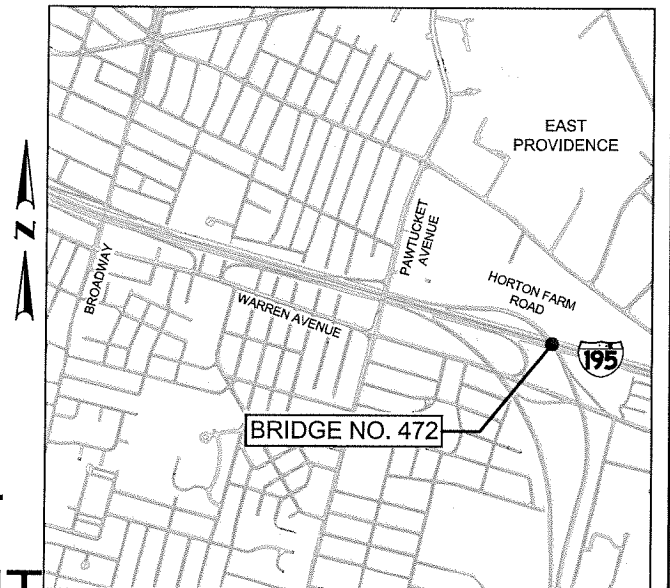
# DEPARTMENT OF TRANSPORTATION

## PLAN, PROFILE AND SECTIONS OF PROPOSED STATE HIGHWAY IMPROVEMENTS TO I-195 ACCELERATED BRIDGE CONSTRUCTION (ABC) OF BRIDGE NO. 472 SUPERSTRUCTURE REPLACEMENT

### VOLUME 2 OF 2 - BRIDGE PLANS HORTON FARM ROAD BRIDGE NO. 472

CITY OF EAST PROVIDENCE  
COUNTY OF PROVIDENCE

R.I. CONTRACT NO. 2017-CB-070 F.A. PROJECT NO. BRO-0472(001)



LOCATION MAP  
SCALE: 1"=1,000'

### DESIGN DESIGNATION

HORTON FARM ROAD	
AADT (2013)	22,100 V.P.D.
AADT (2033)	25,300 V.P.D.
D	100%
K	10%
T	8%
DDHV	2,530 V.P.H.
DDV	2,530 V.P.H.
DESIGN SPEED	50 M.P.H.

### HURRICANE EVACUATION ROUTE

This project includes work on a designated Hurricane Evacuation and Diversionary Route as follows:  
- Intersection of Pawtucket Avenue & Warren Avenue  
- Pawtucket Avenue Bridge 471  
- Pawtucket Avenue  
- East Shore Expressway On Ramp to I-195 over Bridge 472  
Refer to General Note 16 on Sheet 4.

### ADDENDUM NO. 4

R.I. DEPARTMENT OF TRANSPORTATION

APPROVED

ADMINISTRATOR, PROJECT MANAGEMENT DATE  
APPROVED

CHIEF ENGINEER OF INFRASTRUCTURE DATE  
APPROVED

DIRECTOR DATE

DEPARTMENT OF TRANSPORTATION  
FEDERAL HIGHWAY ADMINISTRATION  
APPROVED

DIVISION ADMINISTRATOR DATE

Contract Number 2017-CB-070

Number of Sheet 1

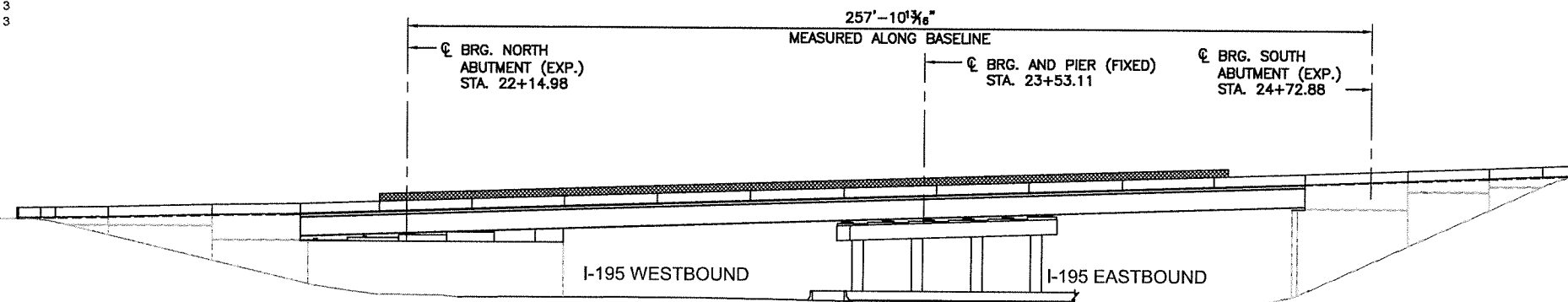
Total Sheets 53

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### SCALES OF DRAWINGS AS SHOWN

BASE OF LEVELS  
NGVD 29

ELEVATION  
SCALE: 1" = 20'



### R.I. STANDARD SPECIFICATIONS AND STANDARD DETAILS

SPECIFICATIONS TO GOVERN THIS PROJECT ARE THE R.I. STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, AMENDED AUGUST 2013, WITH ALL REVISIONS AND THE STATE AND FEDERAL SPECIAL PROVISIONS INCLUDED IN THE CONTRACT DOCUMENTS. STANDARD DETAILS FOR THIS PROJECT ARE R.I. STANDARD DETAILS, 1998 EDITION, WITH ALL REVISIONS.



STRUCTURAL STEEL NOTES CONT.

12. ALL HIGH STRENGTH BOLTS SHALL CONFORM TO AASHTO DESIGNATION M 164, AND THEY SHALL BE INSTALLED IN ACCORDANCE WITH SECTION 824 OF THE RI STANDARD SPECIFICATIONS.
13. WASHERS MEETING AASHTO DESIGNATION M 293 ARE TO BE USED OVER ALL HOLES THAT ARE MORE THAN 1/16" IN DIAMETER GREATER THAN THE BOLT DIAMETER AND UNDER ALL PARTS TURNED DURING ASSEMBLY.
14. WELDING ELECTRODES SHALL HAVE THE SAME CORROSION RESISTANCE AS THE BASE METAL AND SHALL BE FREE OF MOISTURE AT THE TIME OF USE.
15. STRUCTURAL STEEL SHALL BE PREPARED AND PAINTED IN ACCORDANCE WITH THE RI STANDARD SPECIFICATIONS.
16. UNLESS OTHERWISE SPECIFIED, THE UPPER SURFACES OF GIRDER TOP FLANGES SHALL BE FREE OF PAINT, OIL OR OTHER IMPURITIES THAT WOULD IN ANY WAY REDUCE THE BOND OF CONCRETE TO STEEL.
17. PRIOR TO FABRICATION, ALL MATERIALS SHALL FIRST BE SOLVENT CLEANED TO SSPC-SP1 TO REMOVE ALL OIL, GREASE, AND DIRT; FOLLOWED BY BLAST-CLEANING TO SSPC-SP10 TO REMOVE ALL MILL SCALE, RUST, AND OTHER DELETERIOUS MATERIALS FROM THE SURFACE OF THE STEEL TO BE FABRICATED.
18. PRIOR TO SHOP COATING AS SPECIFIED IN SECTION 825 OF THE RI STANDARD SPECIFICATIONS, ALL CORNERS AND EDGES OF STEEL WHICH HAVE BEEN FLAME CUT OR OTHERWISE HARDENED SHALL BE SOFTENED BY GRINDING OR BLAST-CLEANING TO PROVIDE A SURFACE SUITABLE FOR APPLICATION OF THE SPECIFIED PAINT SYSTEM.
19. WELDING OF ATTACHMENTS TO GIRDER FLANGES OR WEBS FOR CONSTRUCTION PURPOSES IS NOT PERMITTED EXCEPT WHEN APPROVED BY THE ENGINEER.
20. THE ENDS OF ALL GIRDERS SHALL BE VERTICAL AFTER ALL DEAD LOADS HAVE BEEN PLACED.
21. INTERMEDIATE STIFFENERS SHALL BE PLACED ON THE INTERIOR SIDE OF THE FASCIA GIRDER WEBS AND ON BOTH SIDES OF ALL INTERIOR GIRDER WEBS.
22. BEARING STIFFENERS SHALL BE FABRICATED AS SHOWN ON THE PLANS AND SHALL BE PLACED ON BOTH SIDES OF ALL GIRDER WEBS.
23. INTERMEDIATE STIFFENERS AND CONNECTION PLATES SHALL BE SET PERPENDICULAR TO THE FLANGES OF THE GIRDERS.
24. END BEARING STIFFENERS AT GIRDER ENDS SHALL BE PLUMB AFTER DEAD LOADS ARE APPLIED.
25. BOLTED CONNECTIONS SHALL BE DESIGNED AS SLIP-CRITICAL CONNECTIONS. THE FAYING SURFACES SHALL SATISFY CLASS B SURFACE CONDITION AS DEFINED IN THE AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS.
26. THE GIRDERS SHALL BE CAMBERED TO THE AMOUNTS SHOWN ON THE PLANS. THE FABRICATOR'S SHOP DRAWINGS SHALL INCLUDE, IN ADDITION TO ANY CUTTING OR CAMBER DIAGRAMS NECESSARY FOR THEIR PURPOSES, A SHOP ASSEMBLY DIAGRAM WHICH PROVIDES CAMBER OFFSETS CALCULATED BY THE FABRICATOR AT THE REFERENCE POINTS PROVIDED BY THE ENGINEER (USUALLY TENTH POINTS OF THE SPANS), THE INFORMATION PROVIDED SHALL BE SUFFICIENT ENOUGH FOR THE ENGINEER TO EVALUATE WHETHER THE CAMBER HAS BEEN CORRECTLY INTERPRETED.
27. ALL SHOP CONNECTIONS AND SPLICES SHALL BE WELDED. WELDING PROCEDURES AND TECHNIQUES TO BE USED IN FABRICATION AND ERECTION OF THE GIRDERS SHALL BE AS SHOWN ON THE SHOP DRAWINGS AND SHALL INCORPORATE THE FOLLOWING:
- BOTH FLANGES AND THE WEB SHALL BE COMPLETELY FABRICATED FOR THEIR ENTIRE LENGTHS BEFORE THE WELDING OF THE FLANGES TO THE WEB IS PERFORMED.
  - ALL THE WEB AND FLANGE SPLICES OTHER THAN THOSE SHOWN ON THE PLANS MUST BE APPROVED BY THE ENGINEER. ALTERNATE OR ADDITIONAL SPLICES ARE TO BE LOCATED AND DESIGNED BY THE FABRICATOR AND SHOWN ON THE SHOP DRAWINGS. THESE SPLICES ARE TO FULLY DEVELOP THE STRENGTH OF THE WEB AND FLANGES PLATES. WEB SPLICES, IF USED, SHALL BE LOCATED 2'-0" MINIMUM FROM ANY STIFFENER.
  - NO MORE THAN TWO SHOP WEB SPLICES WILL BE PERMITTED BETWEEN FIELD SPLICES. SPLICING OF GIRDERS BY FIELD WELDING WILL NOT BE PERMITTED.
28. ALL FILLET WELDS SHALL BE IN ACCORDANCE WITH THE BRIDGE WELDING CODE ASSHTO/AWS D1.5 TABLE 2.1 ( 1/4" MINIMUM).
29. ALL SHEAR STUD CONNECTORS SHALL BE WELDED BY THE AUTOMATIC TIMED ELECTRIC ARC PROCESS. SHEAR STUDS SHALL BE INSPECTED AND TESTED IN ACCORDANCE WITH SECTION 824 OF THE RI STANDARD SPECIFICATIONS.
30. WHEN STEEL DIE STAMPS ARE USED TO IDENTIFY PIECES AND MEMBERS, FABRICATORS SHALL UTILIZE LOW STRESS STAMPS.
31. FOR SIZE AND LOCATION OF ANCHOR BOLTS, SEE ABUTMENT, AND BEARING DRAWINGS.

32. IT SHALL BE THE CONTRACTORS RESPONSIBILITY TO ENSURE THAT THE EXPANSION JOINT SYSTEM PROVIDED WILL BE COMPATIBLE WITH BOTH THE END OF DECK HAUNCHES AND/OR THE STRUCTURAL STEEL FRAMING CONFIGURATION. THAT IS, THE EXPANSION JOINT SYSTEM AND ALL ITS INHERENT COMPONENTS AND ATTACHMENT DEVICES SHALL BE SIZED OR ARRANGED TO BE COMPATIBLE WITH THE GIRDER AND DIAPHRAGM FLANGES, CONNECTION PLATES, BOLTS, SHEAR STUDS, AND REINFORCING STEEL THAT SHARE THE END HAUNCH REGION.

GENERAL NOTES REGARDING TEMPORARY CONSTRUCTION CONDITIONS:

1. DESIGN WIND PRESSURES FOR CONSTRUCTION:

MINIMUM WIND PRESSURES TO BE USED BY THE CONTRACTOR FOR DESIGN DURING THE CONSTRUCTION CONTRACT (WITH THE EXCEPTION OF SIGNS) SHALL BE FROM THE FOLLOWING TABLE:

HEIGHT ABOVE GROUND	WIND PRESSURE (PSF)
UP TO 17'	23
OVER 17' AND UP TO 33'	27
OVER 33' AND UP TO 50'	30
OVER 50' AND UP TO 75'	34
OVER 75' AND UP TO 100'	37

TABLE NOTES:

A. APPLICATION OF THE TABULAR PRESSURE:

- BRIDGE COMPONENTS DURING CONSTRUCTION, PRIOR TO THE INSTALLATION OF THE PERMANENT BRACING SYSTEMS, NOT INCLUDING CRANE LIFTING.
- FALSE WORK, SHORING, AND SCAFFOLDING AS DEFINED IN FHWA "GUIDE DESIGN SPECIFICATION FOR BRIDGE TEMPORARY WORKS", EXCLUDING 3-DIMENSIONAL LATTICED OR TRUSSED FRAMES OR TOWERS;
- TEMPORARY SHIELDING.

WIND PRESSURES FOR ALL OTHER STRUCTURES SHALL BE CALCULATED BASED ON ASCE "DESIGN LOADS ON STRUCTURES DURING CONSTRUCTION", SEI/ASCE 37-02 (ALL REFERENCES TO THE ASCE 7 IN THE SEI/ASCE 37-02 PUBLICATION, SHALL BE THE LATEST REVISION OF ASCE 7). THE EXPOSURE CATEGORY SHALL BE B.

B. FOR STRUCTURES SITUATED ABOVE LIVE INTERSTATE TRAFFIC, THE TABULAR VALUES SHALL BE INCREASED BY 5 PSF.

2. ERECTION OF BRIDGE COMPONENTS:

FOR THE ERECTION OF STRUCTURES, THE FOLLOWING SHALL APPLY:

- THE CONTRACTOR SHALL SUBMIT AN ERECTION PLAN THAT PROVIDES COMPLETE DETAILS OF THE PROCESS INCLUDING, BUT NOT LIMITED TO, TEMPORARY SUPPORTS, SCHEDULING AND OPERATION SEQUENCING, CRANE PLACEMENT, AND ASSUMED LOADS AND CALCULATED STRESSES DURING VARYING STAGES OF LIFTING. THIS APPLIES TO STRUCTURES OF ANY KIND. THE CAPACITY OF THE CRANE AND ALL LIFTING AND CONNECTING DEVICES SHALL BE ADEQUATE FOR 125 PERCENT OF THE TOTAL PICK LOAD INCLUDING SPREADERS AND OTHER MATERIALS. THIS FACTOR OF SAFETY SHALL BE IN ADDITION TO ALL MANUFACTURERS' PUBLISHED FACTORS OF SAFETY.
- A REGISTERED PROFESSIONAL ENGINEER, LICENSED IN THE STATE OF RHODE ISLAND, WILL BE REQUIRED TO STAMP THE CONTRACTOR'S ERECTION PLAN.
- THE CONTRACTOR'S PROFESSIONAL ENGINEER WILL BE REQUIRED TO INSPECT AND PROVIDE WRITTEN APPROVAL OF EACH PHASE OF A BEAM/MODULAR UNIT INSTALLATION, PRIOR TO ALLOWING VEHICLES OR PEDESTRIANS ON OR BELOW THE STRUCTURE. THE PROFESSIONAL ENGINEER MUST ALSO STAMP ALL CHANGES TO THE CONTRACTOR'S ERECTION PLAN. ADDITIONALLY, ALL PROPOSED CHANGES MUST BE SUBMITTED TO RIDOT FOR REVIEW AND APPROVAL PRIOR TO IMPLEMENTATION.
- A MANDATORY PRE-ERECTION CONFERENCE WILL BE HELD AT LEAST TWO WEEKS PRIOR TO THE START OF THE BEAM/MODULAR UNIT INSTALLATION TO DISCUSS THE PLAN AND PROCEDURES, WORK SCHEDULES, CONTINGENCY PLANS, SAFETY REQUIREMENTS AND TRAFFIC CONTROL. THE CONTRACTOR'S PROFESSIONAL ENGINEER AND ERECTION SUBCONTRACTOR WILL BE REQUIRED TO ATTEND THIS MEETING, AS WILL THE RIDOT RESIDENT ENGINEER, THE DESIGN PROJECT ENGINEER AND THE DESIGN CONSULTANT. BASED UPON DISCUSSIONS AT THIS MEETING AND A REVIEW OF THE CONTRACTOR'S ERECTION PLAN, RIDOT MAY ORDER THE CONTRACTOR TO MODIFY AND RESUBMIT THE ERECTION PLAN TO THE ENGINEER FOR REVIEW AND APPROVAL.
- THE CONTRACTOR WILL BE REQUIRED TO PERFORM DAILY INSPECTIONS OF THE ERECTED GIRDERS UNTIL THE BRIDGE DECK IS COMPLETELY POURED.
- THE COST OF PREPARING AND STAMPING THE ERECTION PLAN, COMPUTATIONS, AND REPORTS, RESPONDING TO RIDOT'S COMMENTS AND MAKING THE NECESSARY REVISIONS, AND ATTENDANCE AT MEETINGS SHALL BE CONSIDERED INCIDENTAL TO THE COST OF THE SUPERSTRUCTURE PAY ITEM, BE IT CONCRETE, STEEL OR TIMBER.

3. TEMPORARY BARRIER ON BRIDGES

- TEMPORARY BARRIER TO BE UTILIZED ON BRIDGES AND THEIR APPROACH DURING CONSTRUCTION SHALL MEET TEST LEVEL TL-4.

UTILITY NOTES

1. NO CONSTRUCTION EQUIPMENT OR PERSONNEL SHALL BE PERMITTED WITHIN A TEN (10) FOOT RADIUS OF THE ENERGIZED OVERHEAD LINES.

SHOP DRAWING SUBMITTAL

- |   |   |   |
|---|---|---|
| 1. BRIDGE DEMOLITION  | 15. CONCRETE SURFACE REPAIR                               | 29. DELETED   |
| 2. REMOVE AND DISPOSE EXISTING SUPERSTRUCTURE   | 16. ACCELERATED BRIDGE CONSTRUCTION SCHEDULE              | 30. DELETED   |
| 3. REMOVE AND DISPOSE EXISTING SUBSTRUCTURE   | 17. TEMPORARY EARTH SUPPORT SYSTEM DESIGN                 | 31. CONCRETE SURFACE TREATMENT (PROTECTIVE COATING)   |
| 4. CRANE SUBMITTALS   | 18. TEMPORARY SHORING                                     | 32. SHEAR CONNECTORS                                  |
| 5. TEMPORARY PROTECTIVE SHIELDING   | 19. MATERIAL CUT SHEETS                                   | 33. BRIDGE IDENTIFICATION AND MINIMUM CLEARANCE SIGNS |
| 6. CONCRETE: MIX DESIGNS, PLACING AND METHODS AND EQUIPMENT, CURING PLAN AND METHODS, PERSONNEL RESOURCES | 20. UTILITY SUPPORTS                                      | 34. SNOW FENCE  |
| 7. REINFORCING STEEL, SPLICES AND INSERTS   | 21. MISCELLANEOUS METALS                                  |   |
| 8. CONCRETE FORMS   | 22. DELETED   |   |
| 9. STRUCTURAL STEEL   | 23. STRIP SEAL EXPANSION JOINT ASSEMBLIES                 |   |
| 10. DRILL AND GROUT REINFORCING   | 24. CONCRETE SUBCONTRACTORS QUALIFICATIONS AND EXPERIENCE |   |
| 11. BRIDGE BEARING ASSEMBLIES   | 25. STRUCTURAL STEEL PAINT SYSTEMS                        |   |
| 12. BEAM ERECTION PROCEDURES  | 26. WELDING PROCEDURES                                    |   |
| 13. BRIDGE NAME/SEAL TABLETS  | 27. QUALITY CONTROL PLAN FOR BRIDGE SUPERSTRUCTURE        |   |
| 14. CONTROLLED LOW STRENGTH MATERIAL  | 28. DELETED   |   |

NECESSARY SUBMITTALS MAY NOT BE LIMITED TO THE ABOVE LIST AND MAY REQUIRE OTHER SUBMITTALS AT THE RESIDENT ENGINEER'S REQUEST FOR: SHOP DRAWINGS, CERTIFICATE OF COMPLIANCE, PRODUCT INFORMATION, CATALOG CUTS, TEST DATA OR OTHER.

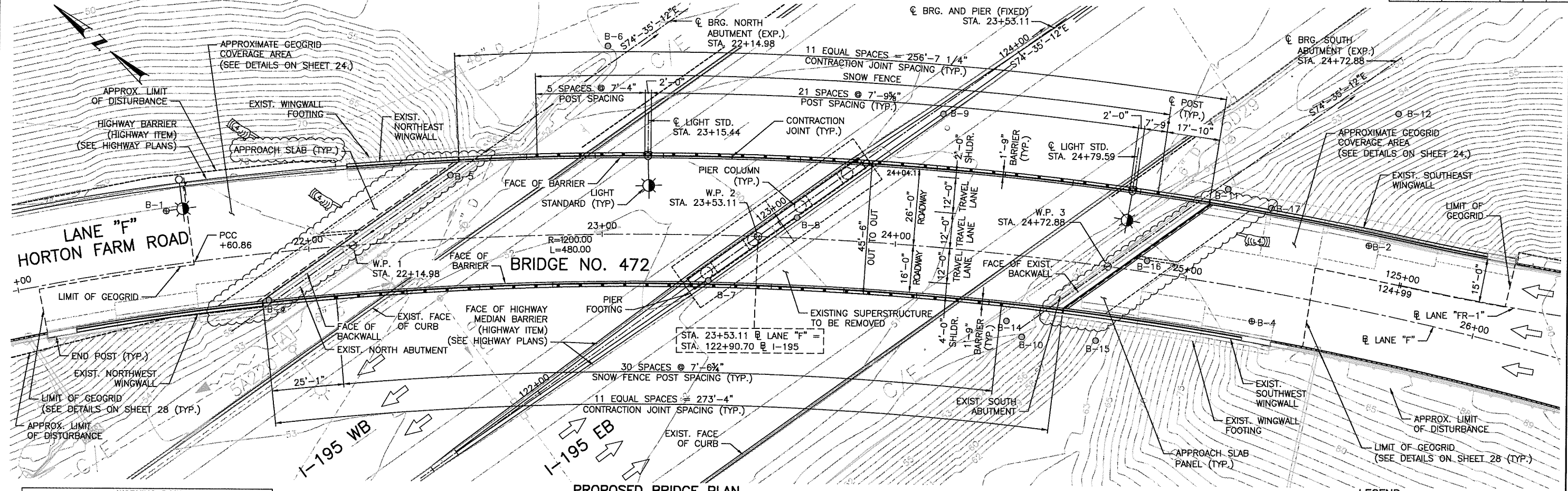
ADDENDUM NO. 4



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REVISIONS			RHODE ISLAND DEPARTMENT OF TRANSPORTATION	
NO.	DATE	BY		
1	10/25/17	LBG	IMPROVEMENTS TO I-195 ABC BRIDGE NO. 472 OVER I-195 SUPERSTRUCTURE REPLACEMENT EAST PROVIDENCE, RHODE ISLAND	
2	12/06/17	LBG		
			GENERAL BRIDGE NOTES SHEET 3 OF 3	
			CHECKED BY PNF DATE 9/22/17 SCALE NONE	





WORKING POINTS			
W.P. #	STATION	NORTHING	EASTING
W.P. 1	STA. 22+14.98	265,210.5029	368,483.8694
W.P. 2	STA. 23+53.11	265,105.0647	368,574.0635
W.P. 3	STA. 24+72.88	265,006.8386	368,641.2885

PROPOSED BRIDGE PLAN  
SCALE: 1/16"=1'-0"

LEGEND:	
ELECTRIC DUCT	---
SANITARY SEWER	---
DRAINAGE	---
WATER MAIN	---
GAS MAIN	---
OVERHEAD WIRE	---
CATCH BASIN	CB
DRAINAGE MANHOLE	DMH
SEWER MANHOLE	SMH
UTILITY POLE	UP
WATER GATE	WG
DIRECTION OF TRAVEL	→
BORING (2005)	⊙B-X
BORING (1979)	⊙B-X
TEST PITS (2005)	⊕TP-X

NOTES:

- BORINGS SHOWN ON GENERAL PLAN ARE SHOWN AT APPROXIMATE LOCATIONS DEVELOPED FROM "HORTON FARM BRIDGE - SUBSURFACE EXPLORATION PLAN" DEVELOPED BY PAUL ALDINGER AND ASSOC., INC., DATED MAY 2005, AS APPEARS IN HORTON FARM BRIDGE GEOTECHNICAL REPORT DATED FEBRUARY 2012.
- BORINGS ARE SHOWN FOR THE PURPOSE OF DESIGN AND SHOW CONDITIONS AT BORING POINTS ONLY, AND DO NOT NECESSARILY SHOW THE NATURE OF THE MATERIALS TO BE ENCOUNTERED DURING CONSTRUCTION.
- BORINGS SHOWN THUS: ⊙B-X DRILLED BY NEW HAMPSHIRE BORING INC. OF BROCKTON, MA FROM MARCH TO APRIL 2005.
- BORINGS SHOWN THUS: ⊙B-X DRILLED BY GUILD DRILLING CO., INC. OF EAST PROVIDENCE, RI BETWEEN JUNE AND DECEMBER 1979. LOGS NOT INCLUDED IN PLANS, SEE APPENDIX OF SPECIAL PROVISIONS FOR 1979 BORING LOGS.
- TEST PITS SHOWN THUS: ⊕TP-X EXCAVATED BY J.J. CARDOSI, INC. OF EAST PROVIDENCE, RI IN MAY 2005.

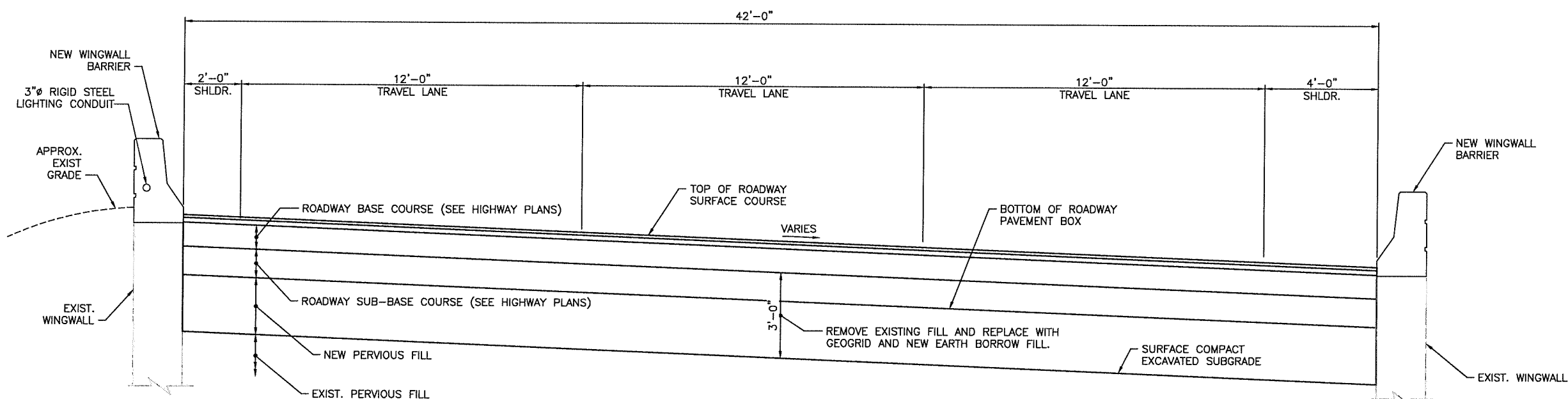
PROPOSED WESTERLY BRIDGE ELEVATION  
(EASTERLY ELEVATION SIMILAR)  
SCALE: 1/16"=1'-0"

- BORINGS B-3 AND B-5, AND TEST PITS TP-1 AND TP-2, CONDUCTED IN 2005 DO NOT APPEAR WITHIN LIMITS OF PLAN. FOR LOCATIONS SEE "HORTON FARM BRIDGE - SUBSURFACE EXPLORATION PLAN" DEVELOPED BY PAUL ALDINGER AND ASSOC., INC., DATED MAY 2005, AS APPEARS IN HORTON FARM BRIDGE GEOTECHNICAL REPORT DATED FEBRUARY 2012.
- FOR CONSTRUCTION BASELINE CURVE DATA, SEE HIGHWAY SHEET 42.

ADDENDUM NO. 4

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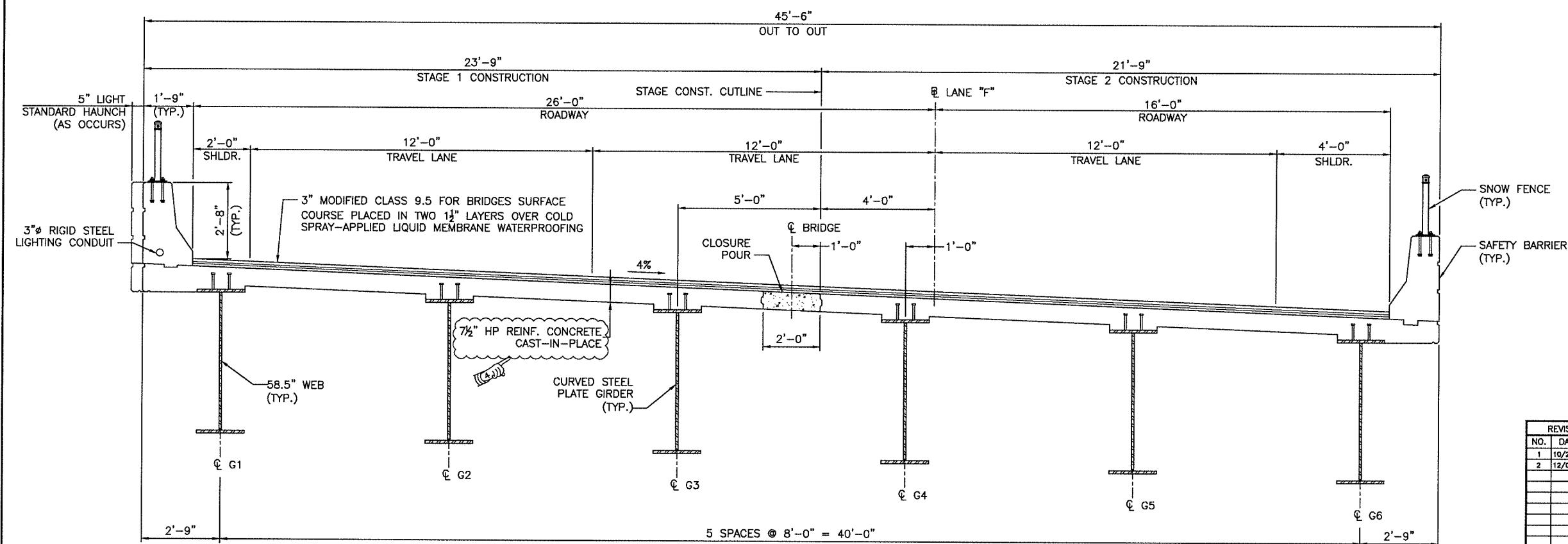
REVISIONS NO. DATE BY 1 12/8/17 LBG	RHODE ISLAND DEPARTMENT OF TRANSPORTATION	
	IMPROVEMENTS TO I-195 ABC BRIDGE NO. 472 OVER I-195 SUPERSTRUCTURE REPLACEMENT EAST PROVIDENCE, RHODE ISLAND	
	GENERAL PLAN AND ELEVATION	
	CHECKED BY PNF DATE 9/22/17 SCALE AS NOTED	



### TYPICAL APPROACH SECTION

STA. 21+75 & 25+25

SCALE: 1/2"=1'-0"



### TYPICAL TRANSVERSE BRIDGE SECTION

(LOOKING UPSTATION)

SCALE: 1/2"=1'-0"

(SPAN 1 SHOWN, SPAN 2 SIMILAR)

### NOTES:

1. SEE HIGHWAY PLANS FOR NOTES AND DIMENSIONS NOT SHOWN.
2. FOR PAVEMENT MARKING LAYOUT SEE HIGHWAY SIGNING AND STRIPING PLANS.
3. FOR LIGHTING LOCATION, SEE SHEET 7.
4. FOR LIGHTING DETAILS, SEE SHEET 49.
5. FOR SNOW FENCE DETAILS SEE SHEET 48.

ENTIRE SHEET REPLACED BY  
ADDENDUM NO. 2

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NO.	DATE	BY
1	10/25/17	LBC
2	12/06/17	LBC

RHODE ISLAND  
DEPARTMENT OF TRANSPORTATION

IMPROVEMENTS TO I-195  
ABC BRIDGE NO. 472 OVER I-195  
SUPERSTRUCTURE REPLACEMENT  
EAST PROVIDENCE, RHODE ISLAND

TYPICAL BRIDGE &  
APPROACH SECTIONS

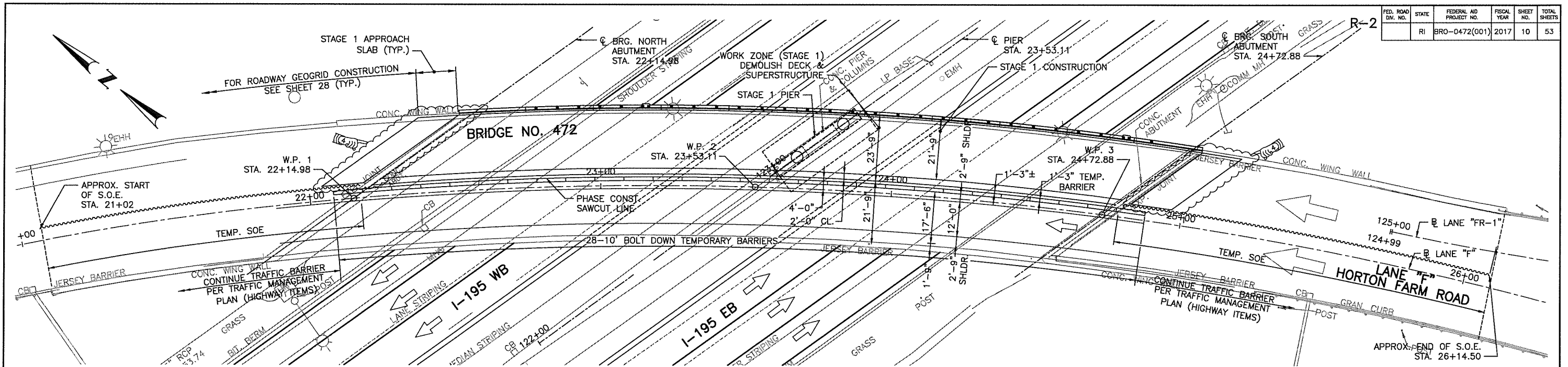
CHECKED BY PNF DATE 9/22/17 SCALE AS NOTED

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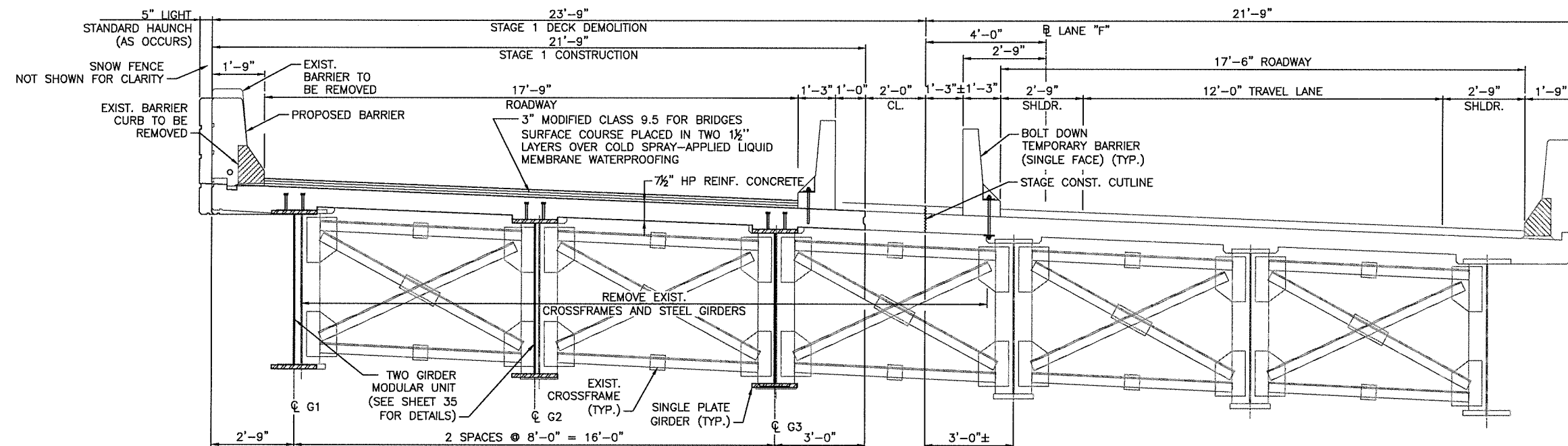


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	RI	BRO-0472(001)	2017	10	53



**STAGE 1 PLAN**  
SCALE: 1/16"=1'-0"



## SECTION STAGE 1

(LOOKING UPSTATION)  
SCALE: 1/2"=1'-0"

## STAGE 1 DEMOLITION

1. INSTALL MAINTENANCE AND PROTECTION OF TRAFFIC ON I-195 EB AND WB AND ON RAMP THEN CONSTRUCT MEDIAN CROSS-OVER "STAGE 1", SEE HIGHWAY PLANS.
2. INSTALL TEMPORARY SOE TO LIMITS SHOWN ON STAGE 1 PLAN.
3. INSTALL TEMPORARY PROTECTIVE SHIELDING, SEE SHEET 13 FOR DETAILS.
4. DEMOLISH EXISTING HORTON FARM ROAD BRIDGE PARAPETS AND DECK AFTER INSTALLING TEMPORARY PROTECTIVE SHIELDING.
5. AFTER REMOVING TEMPORARY SHIELDING, DEMOLISH EXISTING SUPERSTRUCTURE INCLUDING CROSSFRAMES AND STEEL GIRDERS
6. DEMOLISH EXISTING PIER.
7. DEMOLISH EXISTING APPROACH SLABS, TOP OF ABUTMENT BACKWALLS, AND WINGWALL BARRIERS.

### STAGE 1 CONSTRUCTION

- |  |   |
|--|---|
| 1. CONSTRUCT PROPOSED APPROACH SLAB SHELF.                                       | 6. CONSTRUCT WINGWALL BARRIERS AND FILL SHEAR STUD BLOCKOUTS. |
| 2. CONSTRUCT PROPOSED PIER FOOTING, COLUMN AND CAP.                              | 7. CONSTRUCT APPROACH SLAB.                                   |
| 3. INSTALL TWO GIRDER MODULAR UNITS.   | 8. INSTALL SNOW FENCE.  |
| 4. INSTALL SINGLE PLATE GIRDER AND CONNECT WITH PREVIOUSLY INSTALLED TWO GIRDER. | 9. INSTALL GEOGRID, SEE SHEET 28.                             |
| 5. CONSTRUCT DECK.   |   |

ADDENDUM NO. 4



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DEPARTMENT OF TRANSPORTATION

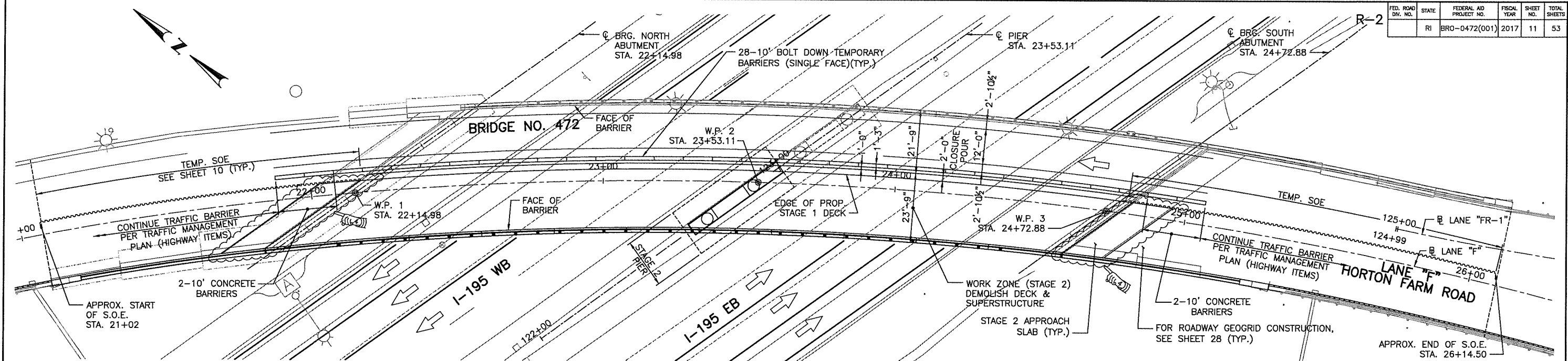
IMPROVEMENTS TO I-195  
ABC BRIDGE NO. 472 OVER I-195  
SUPERSTRUCTURE REPLACEMENT  
EAST PROVIDENCE, RHODE ISLAND

## CONSTRUCTION STAGING & DEMOLITION DETAILS

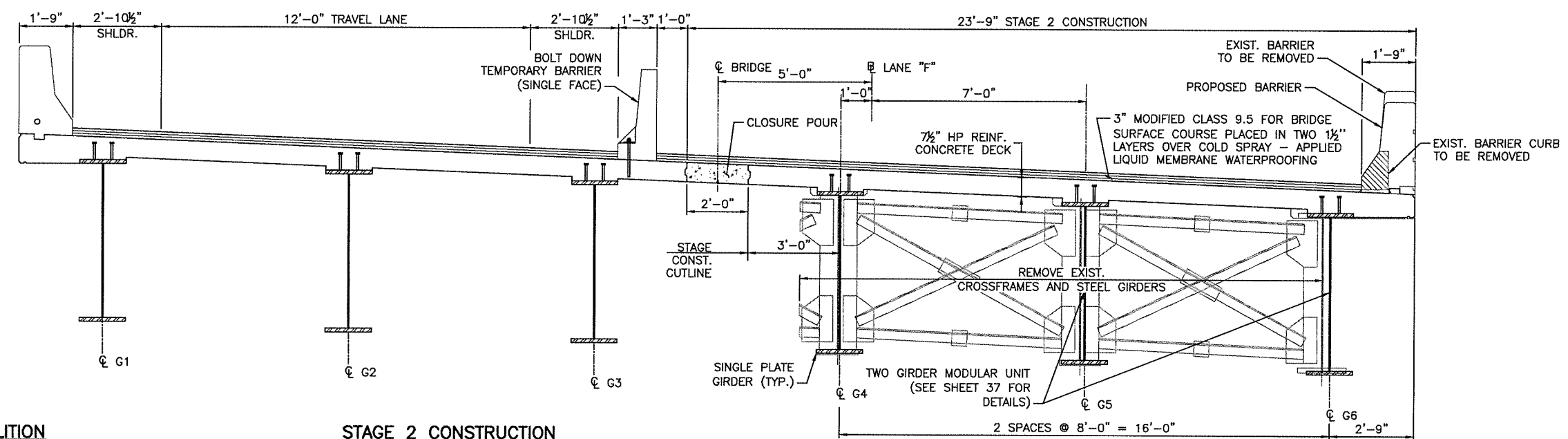
CHECKED BY PNF DATE 9/22/17 SCALE AS NOTED

STAGING PLANS.DWG

FED. ROAD DIV. NO.	STATE	FEDERAL AID PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
	RI	BR0-0472(001)	2017	11	53



**STAGE 2 PLAN**  
SCALE: 1/16"=1'-0"



**SECTION STAGE 2**  
(LOOKING UPSTATION)  
SCALE: 1/2"=1'-0"

**STAGE 2 DEMOLITION**

1. INSTALL MAINTENANCE AND PROTECTION OF TRAFFIC ON I-195 EB AND WB AND ON RAMP THEN CONSTRUCT MEDIAN CROSS-OVER "STAGE 2", SEE HIGHWAY PLANS.
2. INSTALL TEMPORARY PROTECTIVE SHIELDING, SEE SHEET 13 FOR DETAILS.
3. DEMOLISH EXISTING HORTON FARM ROAD BRIDGE PARAPETS AND DECK AFTER INSTALLING TEMPORARY PROTECTIVE SHIELDING.
4. AFTER REMOVING TEMPORARY SHIELDING, DEMOLISH EXISTING SUPERSTRUCTURE INCLUDING CROSS FRAMES AND STEEL GIRDERS.
5. DEMOLISH EXISTING PIER CAPS, COLUMNS AND PIER FOOTING.
- (NOT SHOWN) 6. DEMOLISH EXISTING APPROACH SLABS, TOP OF ABUTMENT BACKWALLS, AND WINGWALL BARRIERS.

**STAGE 2 CONSTRUCTION**

1. CONSTRUCT PROPOSED APPROACH SLAB SHELF.
2. CONSTRUCT PROPOSED PIER FOOTING, COLUMNS AND CAP.
3. INSTALL TWO GIRDER MODULAR UNITS.
4. INSTALL SINGLE GIRDER AND CONNECT WITH PREVIOUSLY INSTALLED TWO GIRDER UNIT.
5. INSTALL C.I.P. DECK.
6. CONSTRUCT CLOSURE POUR BETWEEN STAGE 1 AND STAGE 2 DECK.
7. CONSTRUCT WINGWALL BARRIERS.
8. CONSTRUCT END CLOSURE POURS AND PLACE APPROACH SLABS AND WEARING SURFACE.
- (NOT SHOWN) 9. INSTALL GEOGRID, SEE SHEET 28.

ENTIRE SHEET REPLACED BY  
ADDENDUM NO. 2

NO.	DATE	BY
1	10/25/17	LBC
2	12/08/17	LBC

RHODE ISLAND  
DEPARTMENT OF TRANSPORTATION

IMPROVEMENTS TO I-195  
ABC BRIDGE NO. 472 OVER I-195  
SUPERSTRUCTURE REPLACEMENT  
EAST PROVIDENCE, RHODE ISLAND

**CONSTRUCTION STAGING  
& DEMOLITION DETAILS**

SHEET 3 OF 3

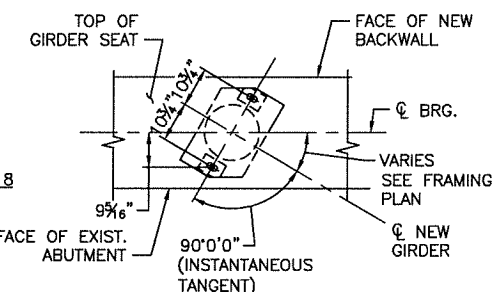
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ADDENDUM NO. 4

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STAGING PLANS.DWG






**NOTES:**

1. FOR ABUTMENT SECTIONS AND DETAILS, SEE SHEET 24.
2. FOR WINGWALL ELEVATIONS, SEE SHEET 26.
3. FOR BEARING LAYOUT AND DETAILS, SEE SHEET 44.
4. ABUTMENT CONCRETE SHALL BE: CLASS XX,  $\frac{3}{4}$ ", CEMENT CONCRETE EXCEPT AS NOTED ON SHEET 5.
5. FOR VERTICAL CONSTRUCTION JOINT DETAIL AT BACKWALL AND APPROACH SLAB SEAT. SEE SHEET 24.



ABUTMENT ELEVATIONS	
LOCATION	SEAT EL.
GIRDER G1	EL. 70.60
GIRDER G2	EL. 69.82
GIRDER G3	EL. 69.01
GIRDER G4	EL. 68.22
GIRDER G5	EL. 67.44
GIRDER G6	EL. 66.71

 NEW CONCRETE AREA

- \* ELEVATIONS TAKEN AT CENTERLINE OF BEARING  
SEE TABLE FOR GIRDER SEAT ELEVATIONS FOR ALL  
GIRDERS.
- \*\* ELEVATIONS TAKEN AT FRONT FACE OF BACKWALL.



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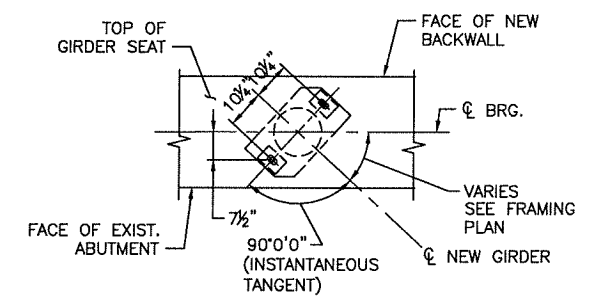
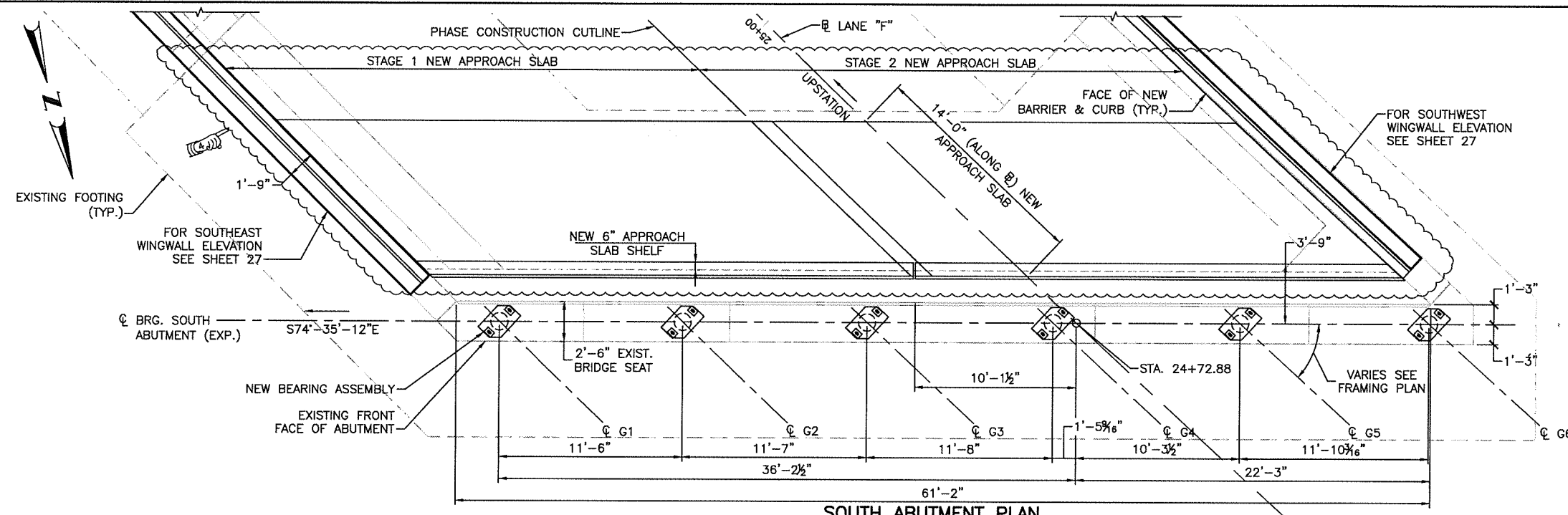
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RY	RHODE ISLAND
EG	DEPARTMENT OF TRANSPORTATION

IMPROVEMENTS TO I-195  
ABC BRIDGE NO. 472 OVER I-195  
SUPERSTRUCTURE REPLACEMENT  
EAST PROVIDENCE, RHODE ISLAND

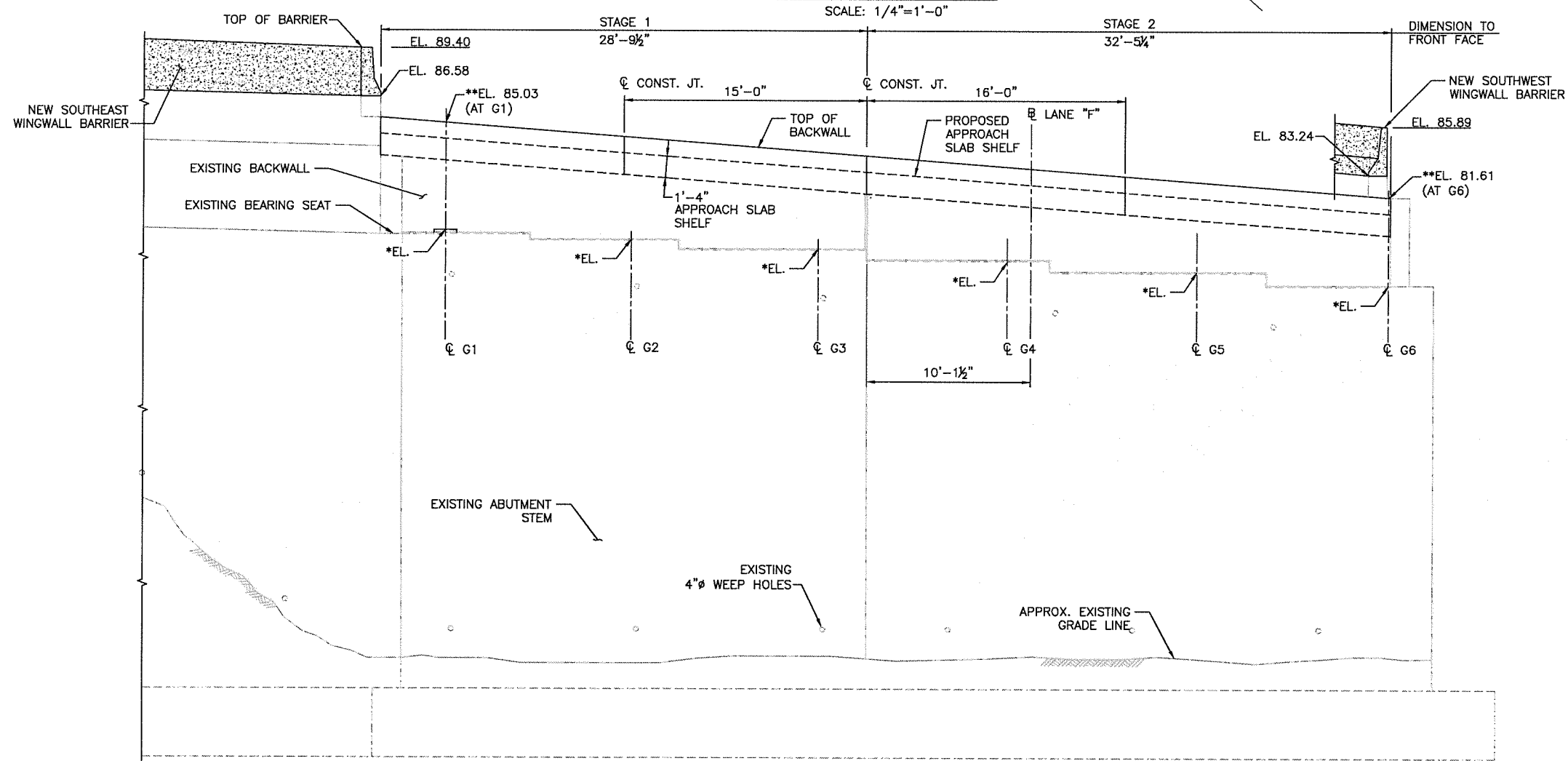
NORTH ABUTMENT PLAN  
AND ELEVATION

CHECKED BY PNF DATE 9/22/17 SCALE AS NOTED



- NOTES:**
- FOR ABUTMENT NOTES, SEE SHEET 22.
  - FOR ABUTMENT SECTIONS AND APPROACH SLAB SHELF, SEE SHEET 24.
- LEGEND:**
- NEW CONCRETE AREA
- \* ELEVATIONS TAKEN AT CENTERLINE OF BEARING SEE TABLE FOR GIRDER SEAT ELEVATIONS FOR ALL GIRDERS.
- \*\* ELEVATIONS TAKEN AT FRONT FACE OF BACKWALL.

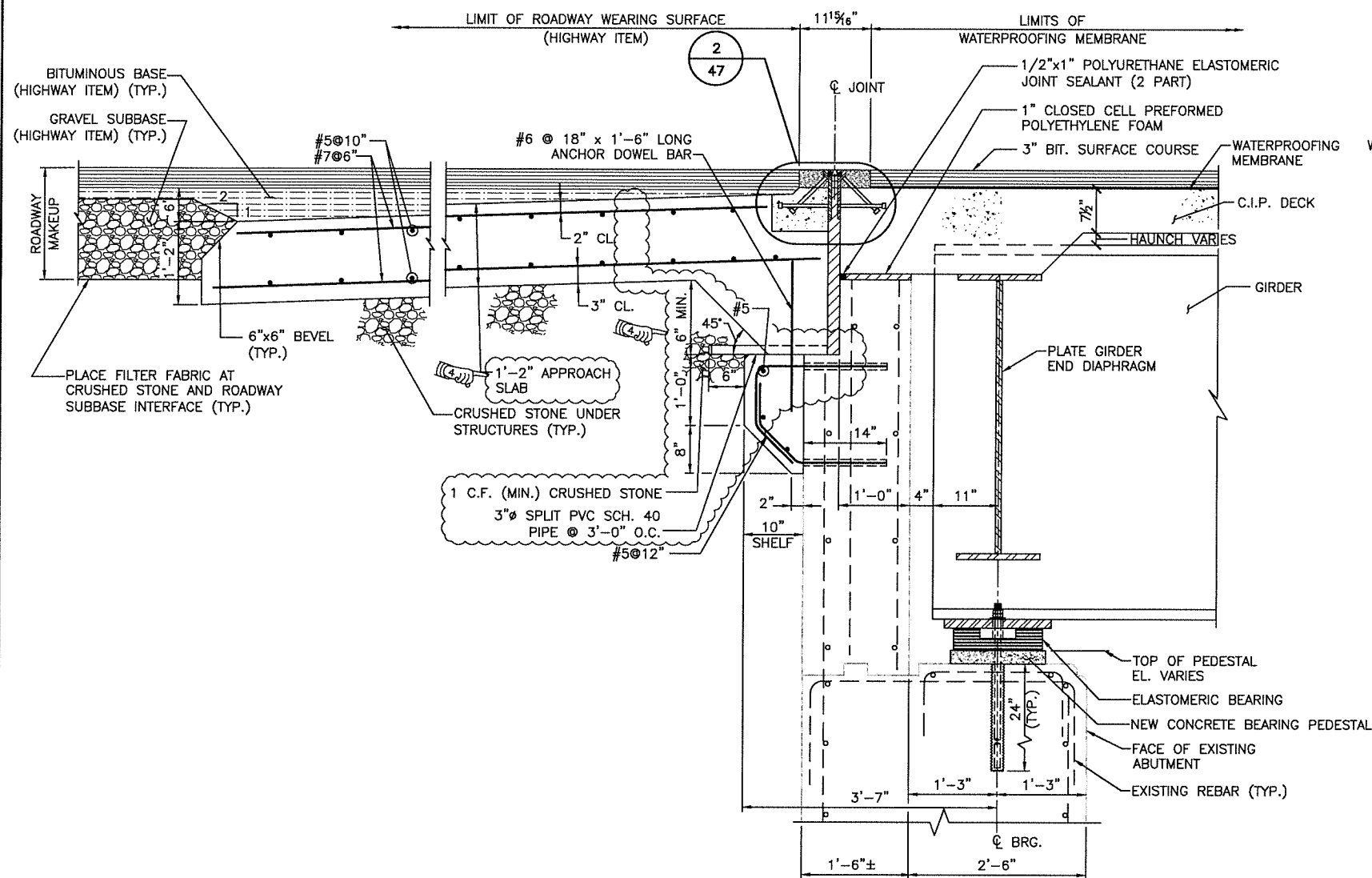
BOTTOM OF BEAM ABUTMENT ELEVATIONS	
LOCATION	SEAT EL.
GIRDER G1	EL. 79.66
GIRDER G2	EL. 79.02
GIRDER G3	EL. 78.44
GIRDER G4	EL. 77.77
GIRDER G5	EL. 77.06
GIRDER G6	EL. 76.24



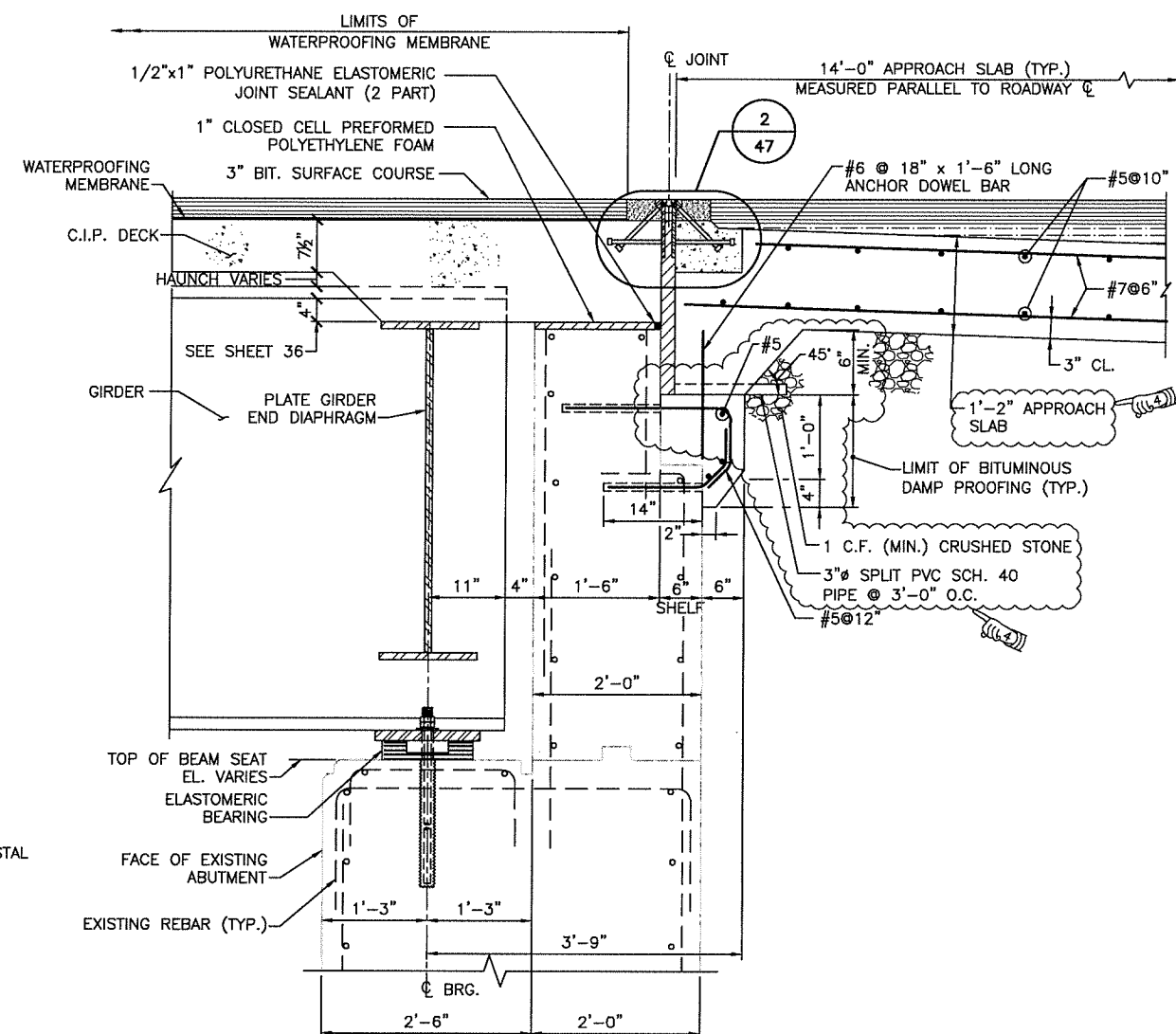
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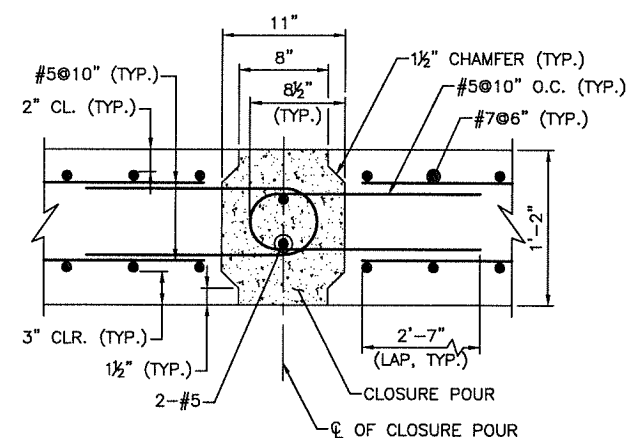
REVISIONS			RHODE ISLAND DEPARTMENT OF TRANSPORTATION	
NO.	DATE	BY	IMPROVEMENTS TO I-195 ABC BRIDGE NO. 472 OVER I-195 SUPERSTRUCTURE REPLACEMENT EAST PROVIDENCE, RHODE ISLAND	
1	12/06/17	LBG	SOUTH ABUTMENT PLAN AND ELEVATION	
CHECKED BY PNF			DATE 9/22/17 SCALE AS NOTED	



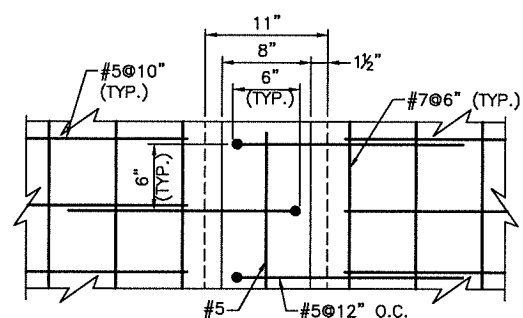
SECTION AT NORTH ABUTMENT (EXP.)  
SCALE: 1"=1'-0"



**SECTION AT SOUTH ABUTMENT (EXP.)**  
SCALE: 1"=1'-0"



APPROACH SLAB  
CLOSURE POUR  
SCALE: 1 1/2" = 1'-0"



**TYPICAL HORIZONTAL SECTION THRU**  
**APPROACH SLAB CLOSURE POUR**  
SCALE: 1½"=1'-0"

**NOTES:**

1. FOR END DIAPHRAGM DETAILS, SEE SHEET 36.
2. FOR DECK DETAILS, SEE SHEET 40.

 ENTIRE SHEET REPLACED BY  
ADDENDUM NO. 2

REVISIONS	
NO.	DATE
1	10/25/17
2	12/08/17

RY	RHODE ISLAND
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IMPROVEMENTS TO I-195  
ABC BRIDGE NO. 472 OVER I-195  
SUPERSTRUCTURE REPLACEMENT  
EAST PROVIDENCE, RHODE ISLAND

## ABUTMENT DETAILS

CHECKED BY PNF DATE 9/22/17 SCALE AS NOTED

ABUTMENT DETAILS.DWG

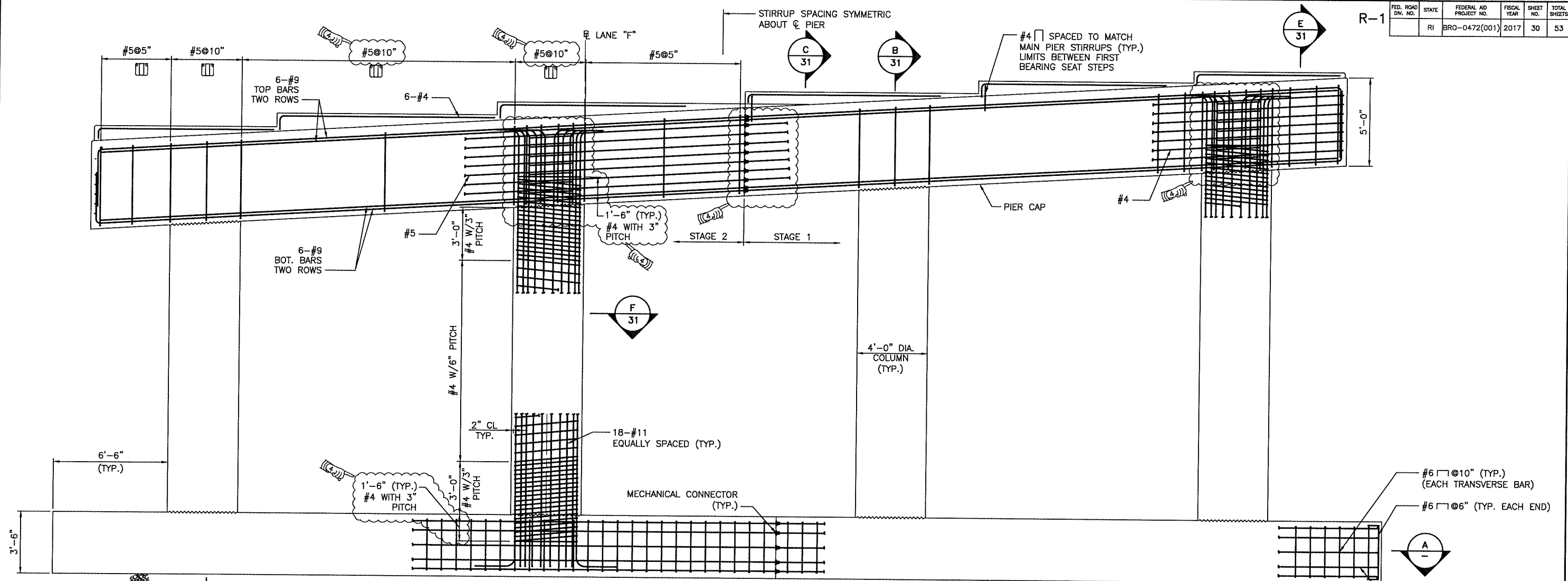
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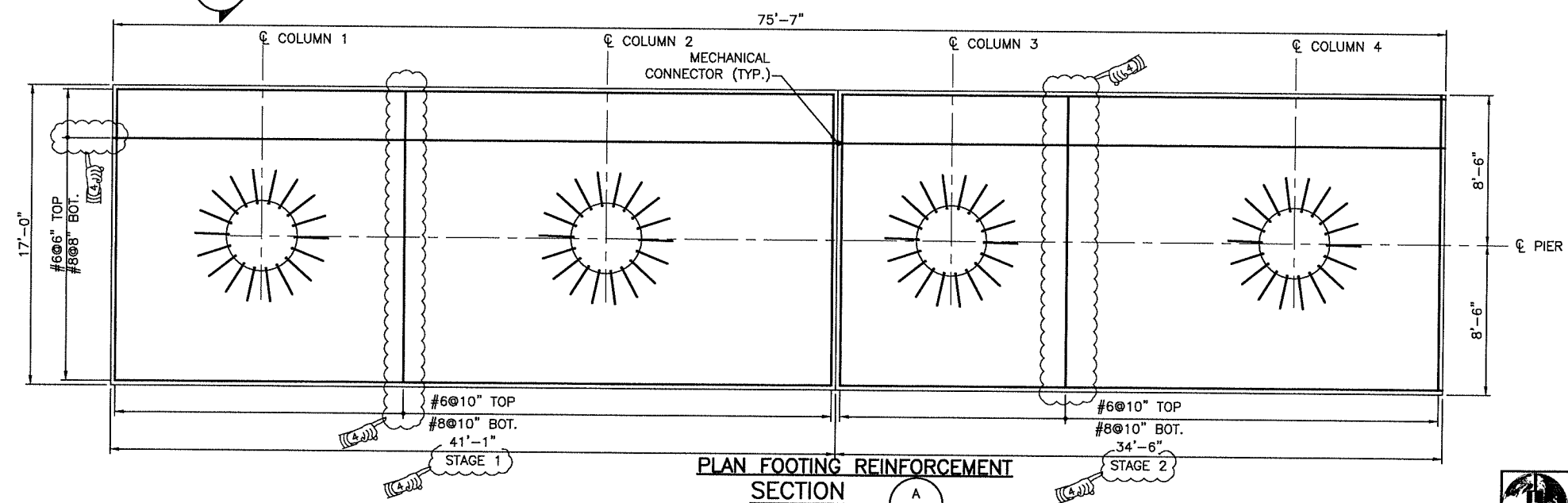
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	RI	BRO-0472(001)	2017	30	53



**ELEVATION - PIER REINFORCEMENT**  
SCALE: 3/8"=1'-0"



**PLAN FOOTING REINFORCEMENT SECTION**  
SCALE: 1/4"=1'-0"

**NOTES:**  
1. FOR SEQUENCE OF CONSTRUCTION, SEE SHEET 9.

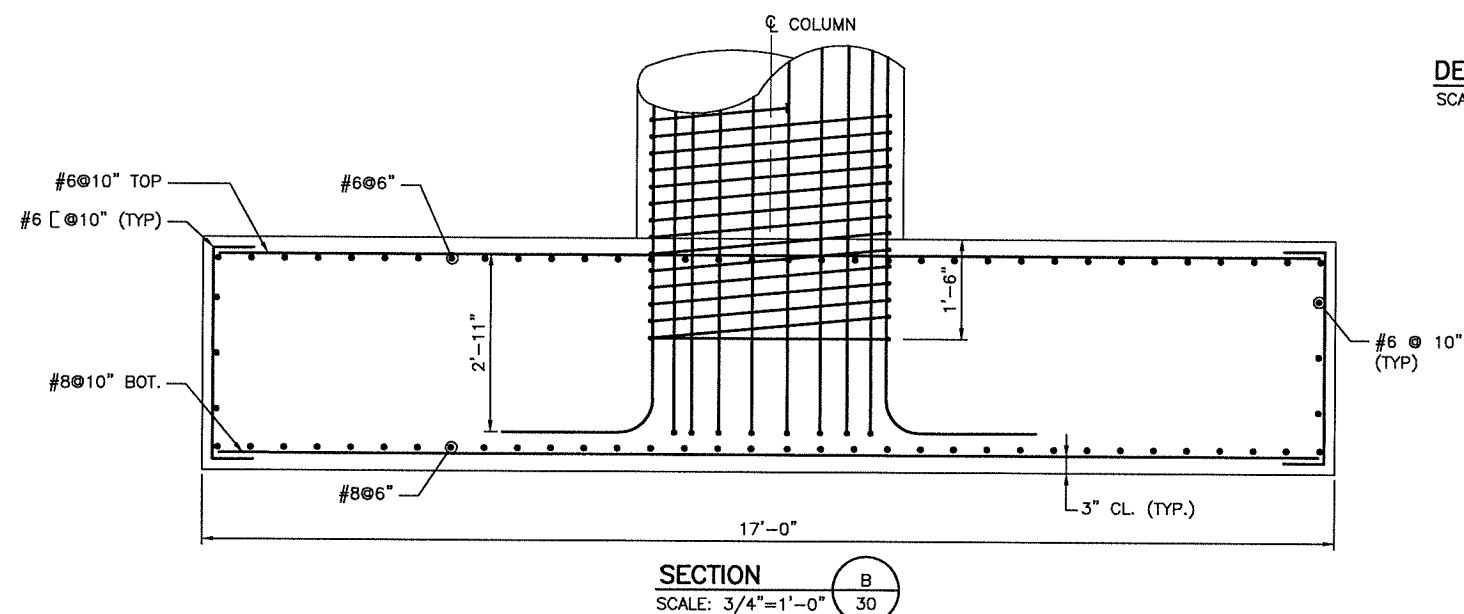
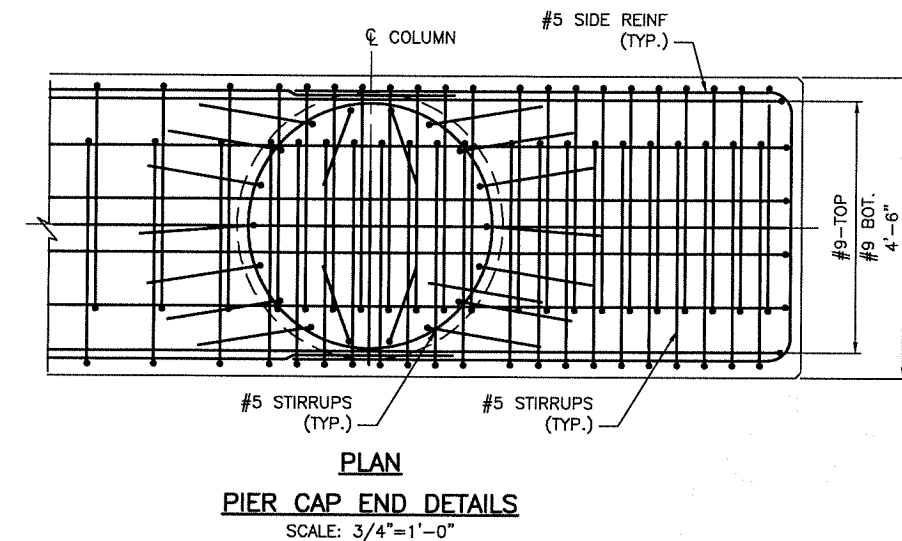
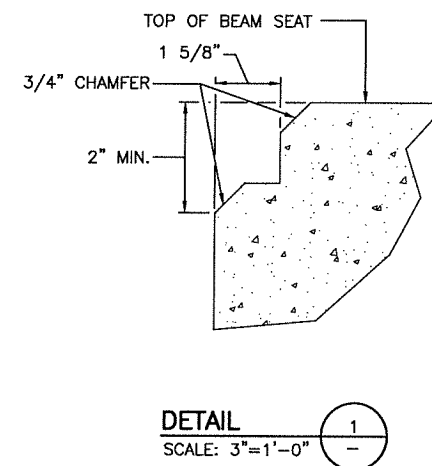
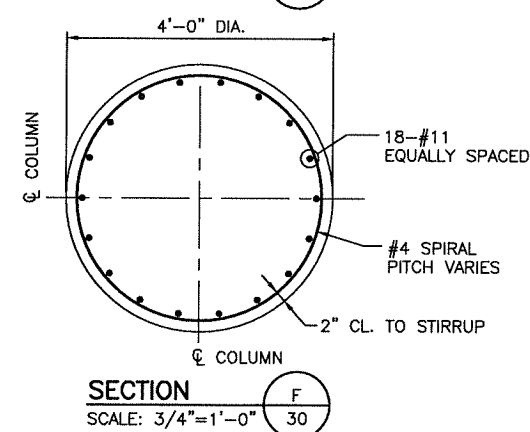
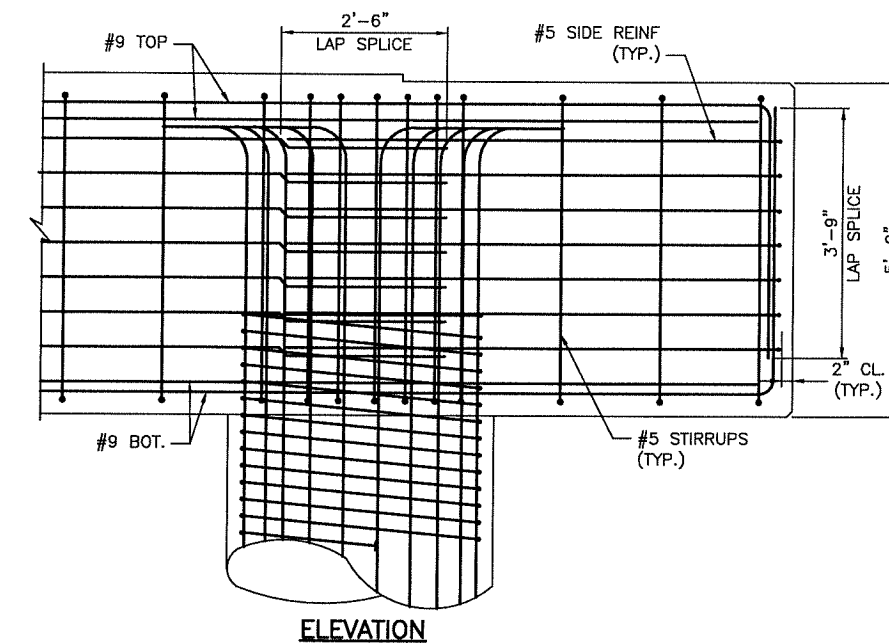
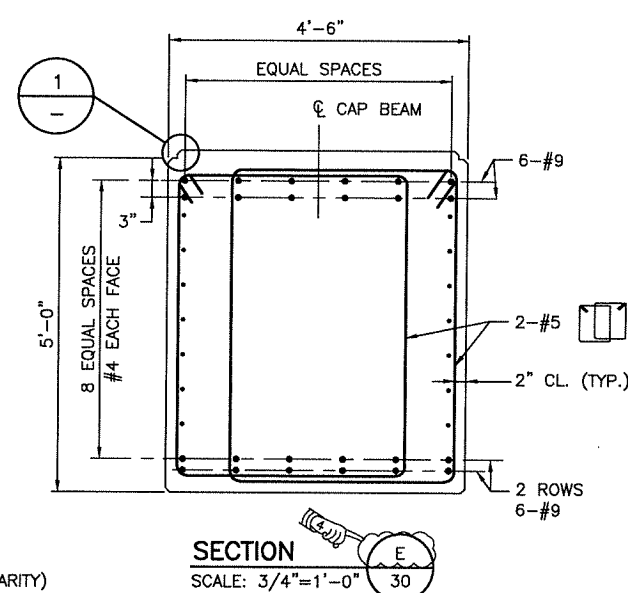
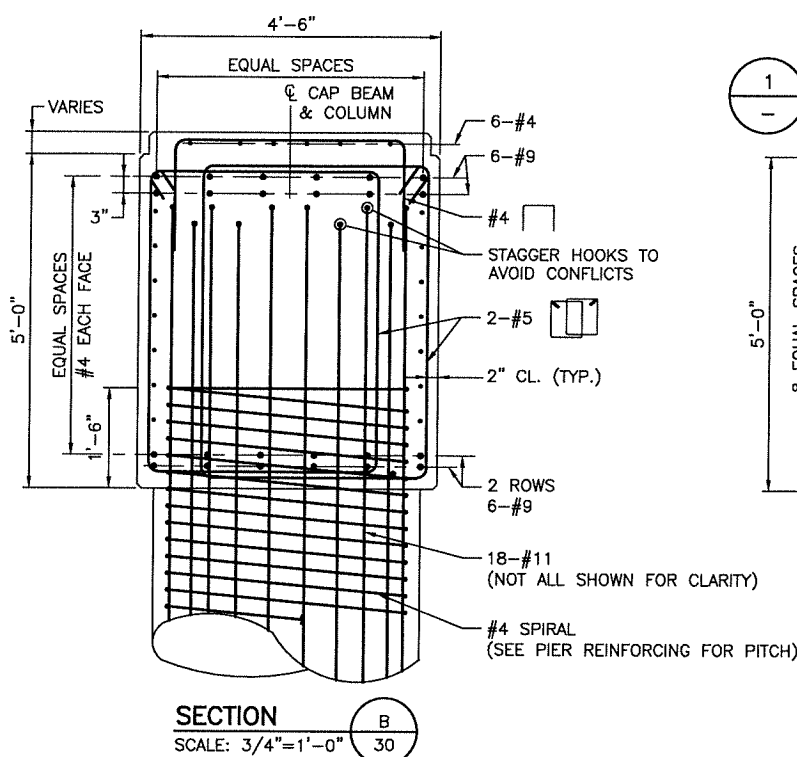
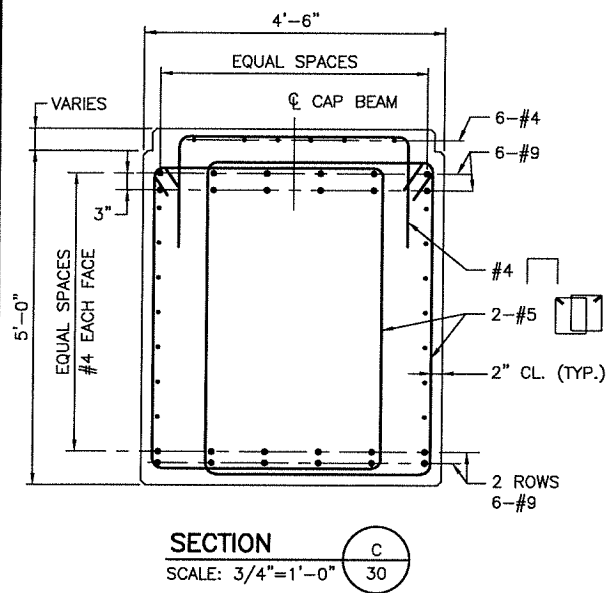
REVISIONS			RHODE ISLAND	
NO.	DATE	BY	DEPARTMENT OF TRANSPORTATION	
1	12/08/17	LBG	IMPROVEMENTS TO I-195	
			ABC BRIDGE NO. 472 OVER I-195	
			SUPERSTRUCTURE REPLACEMENT	
			EAST PROVIDENCE, RHODE ISLAND	
			<b>PIER SECTIONS AND DETAILS</b>	
			SHEET 1 OF 2	
			CHECKED BY PNF DATE 9/22/17 SCALE AS NOTED	

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ADDENDUM NO. 4

R-1

FED. ROAD DIV. NO.	STATE	FEDERAL AID PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
	RI	BRO-0472(001)	2017	31	53



ADDENDUM NO. 4

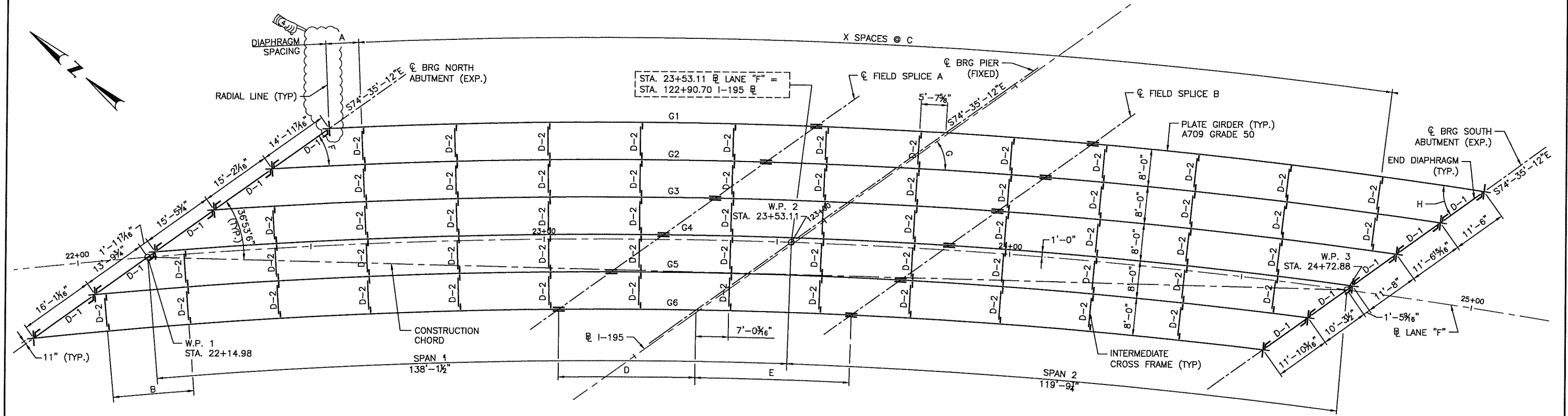


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1	12/06/17	LBG	PIER SECTIONS AND DETAILS	
			SHEET 2 OF 2	
			CHECKED BY PNF DATE 9/22/17 SCALE AS NOTED	

PRECAST PIER SECTIONS AND DETAILS.DWG





FRAMING PLAN  
SCALE: 1"=10'-0"


NOTES:

1. FRAMING DIMENSIONS ARE GIVEN ALONG CENTERLINES OF GIRDERS AND ALONG CENTERLINES OF BEARINGS ON ABUTMENTS AND PIERS.
2. STRUCTURAL STEEL SHAPES AND PLATES SHALL CONFORM TO THE LATEST PROVISIONS OF AASHTO DESIGNATION M270 (ASTM DESIGNATION A709) GRADE 50, AS DESIGNATED ON THE PLANS.
3. FOR SIZE AND LOCATION OF ANCHOR BOLTS, SEE PIER AND ABUTMENT DRAWINGS.
4. THE ENDS OF ALL GIRDERS SHALL BE VERTICAL AFTER ALL DEAD LOADS HAVE BEEN PLACED.
5. INTERMEDIATE STIFFENERS SHALL BE PLACED ON THE INTERIOR SIDE OF THE FASCIA GIRDERS UNLESS OTHERWISE DETAILED ON THE DRAWINGS.
6. STRUCTURAL STEEL SHALL BE PREPARED AND PAINTED IN ACCORDANCE WITH THE SPECIAL PROVISIONS OF THE SPECIFICATIONS.
7. HIGH STRENGTH BOLTS SHALL CONFORM TO AASHTO DESIGNATION M 164 (ASTM A 325) AND SHALL BE 7/8" DIAMETER.
8. THE MAIN LOAD CARRYING MEMBERS ARE GIRDERS G1 TO G6.
9. END DIAPHRAGMS (D-1) AND ALL INTERMEDIATE CROSS FRAMES (D-2) SHALL BE AS SHOWN ON SHEET 36.

TABLE OF ANGLES AND DIMENSIONS (DIMENSIONS MEASURED ALONG CL GIRDER)										
GIRDER NO.	A	X	B	C	D	E	ANGLE F	ANGLE G	ANGLE H	RADIUS
GIRDER G1	6'-11 1/2"	11	N/A	19'-11 7/16"	27'-9 3/4"	31'-6 15/16"	32°38'30"	38°49'51"	44°16'47"	1225'-0"
GIRDER G2	19'-6 1/16"	11	N/A	19'-9 7/8"	28'-1 3/8"	31'-10 5/8"	32°02'56"	38°21'38"	43°53'32"	1217'-0"
GIRDER G3	12'-6 13/16"	11	N/A	19'-8 5/16"	28'-5 3/16"	32'-2 9/16"	31°26'17"	37°52'45"	43°29'49"	1209'-0"
GIRDER G4	6'-1 1/2"	12	N/A	19'-6 3/4"	28'-9 1/4"	32'-6 11/16"	30°48'29"	37°23'09"	43°05'35"	1201'-0"
GIRDER G5	2'-0 1/16"	11	17'-7 1/2"	19'-5 3/16"	29'-1 1/2"	32'-11"	30°09'27"	36°52'48"	42°40'51"	1183'-0"
GIRDER G6	15'-10 7/8"	11	17'-6 1/16"	19'-3 5/8"	29'-6"	33'-3 9/16"	29°29'06"	36°21'41"	42°15'35"	1185'-0"

NOTE:  
ANGLE DIMENSIONS F, G AND H ARE TAKEN  
TANGENT TO GIRDER AT CENTERLINE OF BEARING.

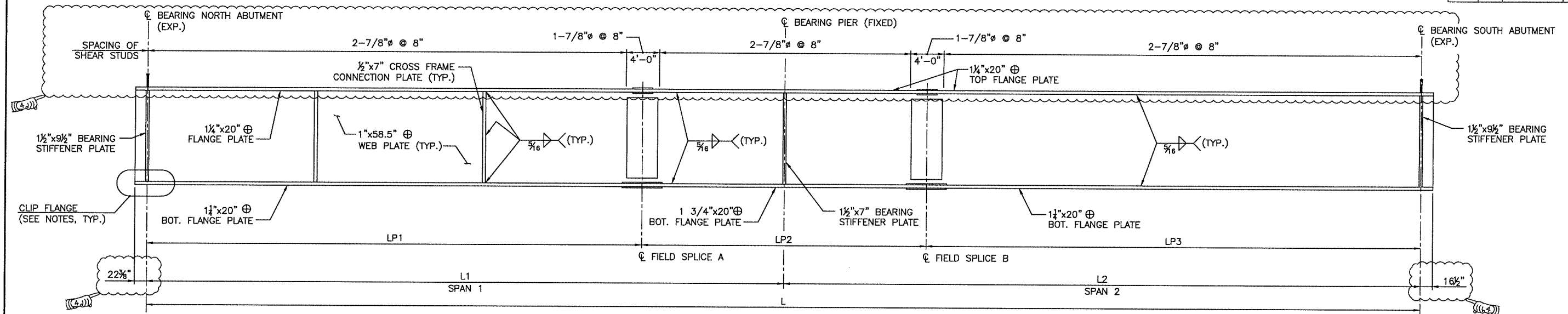
ADDENDUM NO. 4

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NO.	DATE	BY		
1	12/06/17	LBG	IMPROVEMENTS TO I-195 ABC BRIDGE NO. 472 OVER I-195 SUPERSTRUCTURE REPLACEMENT EAST PROVIDENCE, RHODE ISLAND	
			FRAMING PLAN	
			CHECKED BY PNF DATE 9/22/17 SCALE AS NOTED	

R-1

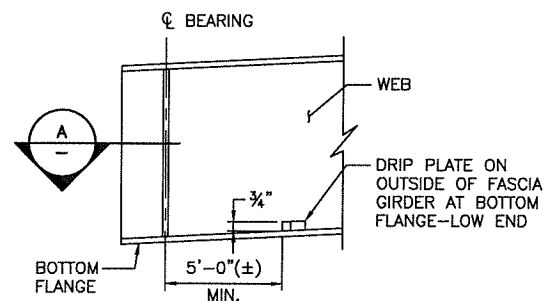
FED. ROAD DIV. NO.	STATE	FEDERAL AID PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
	RI	BR0-0472(001)	2017	34	53



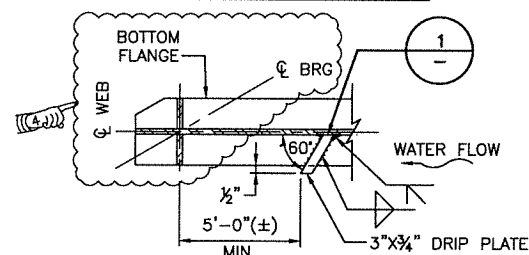
**GIRDER ELEVATION**  
NOT TO SCALE:

**GIRDER ELEVATION NOTES:**

- ⊕ INDICATES CHARPY V-NOTCH TEST REQUIREMENTS (ON TENSION MEMBERS)
- ALL DIMENSIONS SHOWN ARE HORIZONTAL.

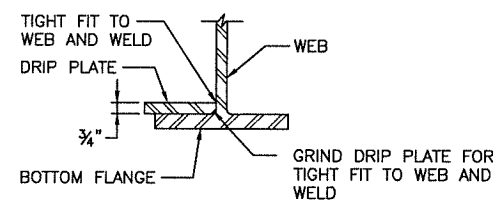


**PARTIAL GIRDER ELEVATION**



**SECTION**

NOT TO SCALE:

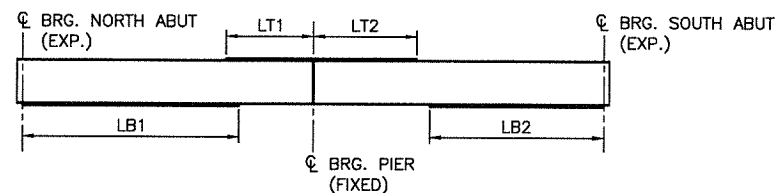


**DETAIL**

NOT TO SCALE:

**DRIP PLATE DETAILS**

GIRDER NO.	GIRDER DIMENSIONS ALONG C.L. OF GIRDER					
	SPAN LENGTH AND LOCATION OF SPLICE					
	L1	L2	LP1	LP2	LP3	L
GIRDER G1	132'-3 15/16"	116'-6"	104'-6 3/16"	59'-4 11/16"	84'-11 1/16"	248'-9 15/16"
GIRDER G2	134'-0 13/16"	117'-5 15/16"	105'-11 3/8"	60'-0 1/16"	85'-7 5/16"	251'-6 3/4"
GIRDER G3	135'-10 15/16"	118'-6 1/2"	107'-5 3/4"	60'-7 3/4"	86'-3 15/16"	254'-5 7/16"
GIRDER G4	137'-10 1/2"	119'-7 5/8"	109'-1 1/4"	61'-3 7/8"	87'-0 15/16"	257'-6 1/8"
GIRDER G5	139'-11 11/16"	120'-9 7/16"	110'-10 3/16"	62'-0 1/2"	87'-10 7/16"	260'-9 1/8"
GIRDER G6	142'-2 9/16"	121'-11 7/8"	112'-8 9/16"	62'-9 9/16"	88'-8 5/16"	264'-2 7/16"



**TENSION ZONE DIAGRAM**

NOT TO SCALE:

GIRDER NO.	TENSION ZONE			
	LB1	LB2	LT1	LT2
GIRDER G1	98'-3 13/16"	83'-2 5/8"	34'-0 1/8"	33'-3 3/8"
GIRDER G2	101'-10 11/16"	84'-6 1/2"	32'-2 1/8"	32'-11 7/16"
GIRDER G3	103'-8 5/8"	84'-7"	32'-2 5/16"	33'-11 1/2"
GIRDER G4	105'-4 3/16"	84'-6 3/8"	32'-6 5/16"	35'-1 1/4"
GIRDER G5	107'-11 7/8"	84'-2 3/16"	31'-11 13/16"	36'-7 1/4"
GIRDER G6	111'-5 3/4"	83'-2 7/16"	30'-8 13/16"	38'-9 7/16"

ADDENDUM NO. 4



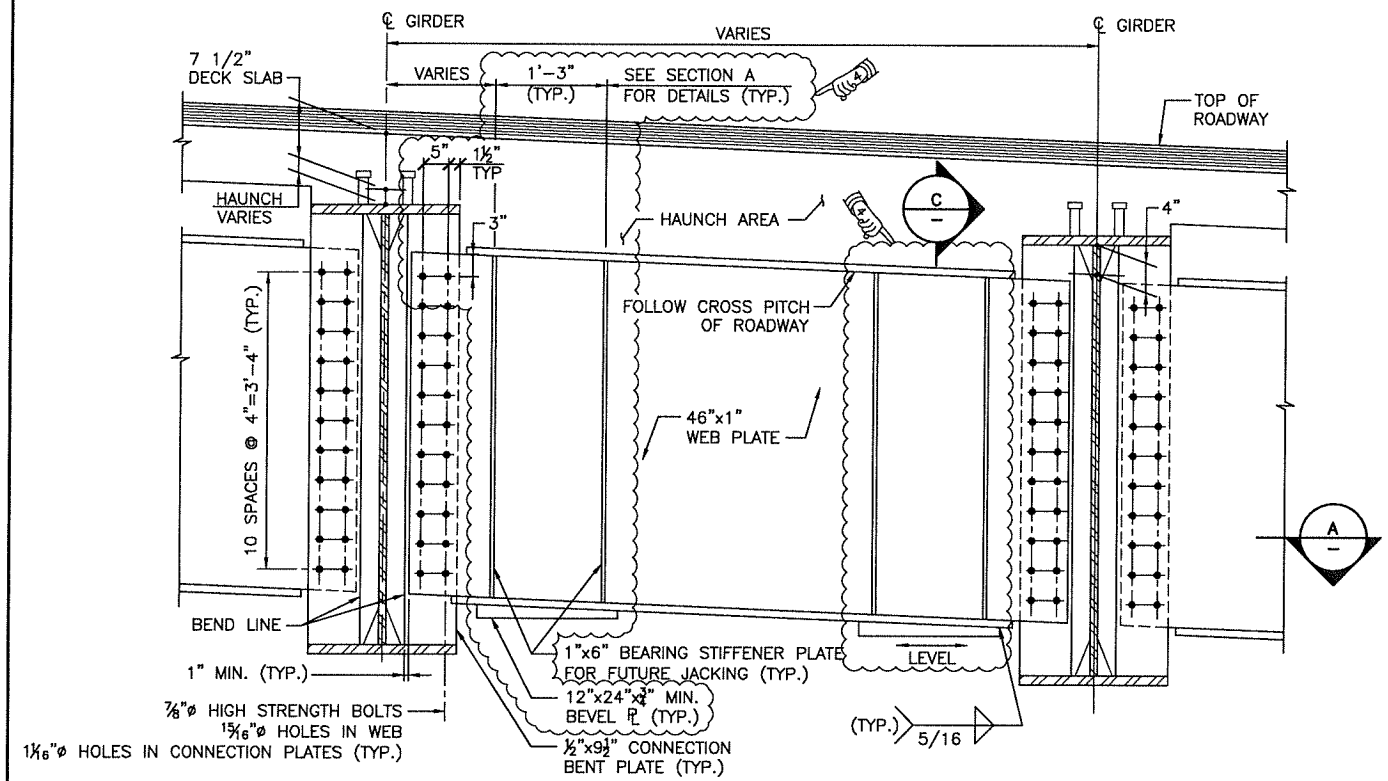
Louis Berger  
166 VALLEY STREET, BUILDING 5  
PROVIDENCE, RI 02909  
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REVISIONS			NO.	DATE	BY
			1	12/06/17	LBG

GIRDER DETAILS.DWG

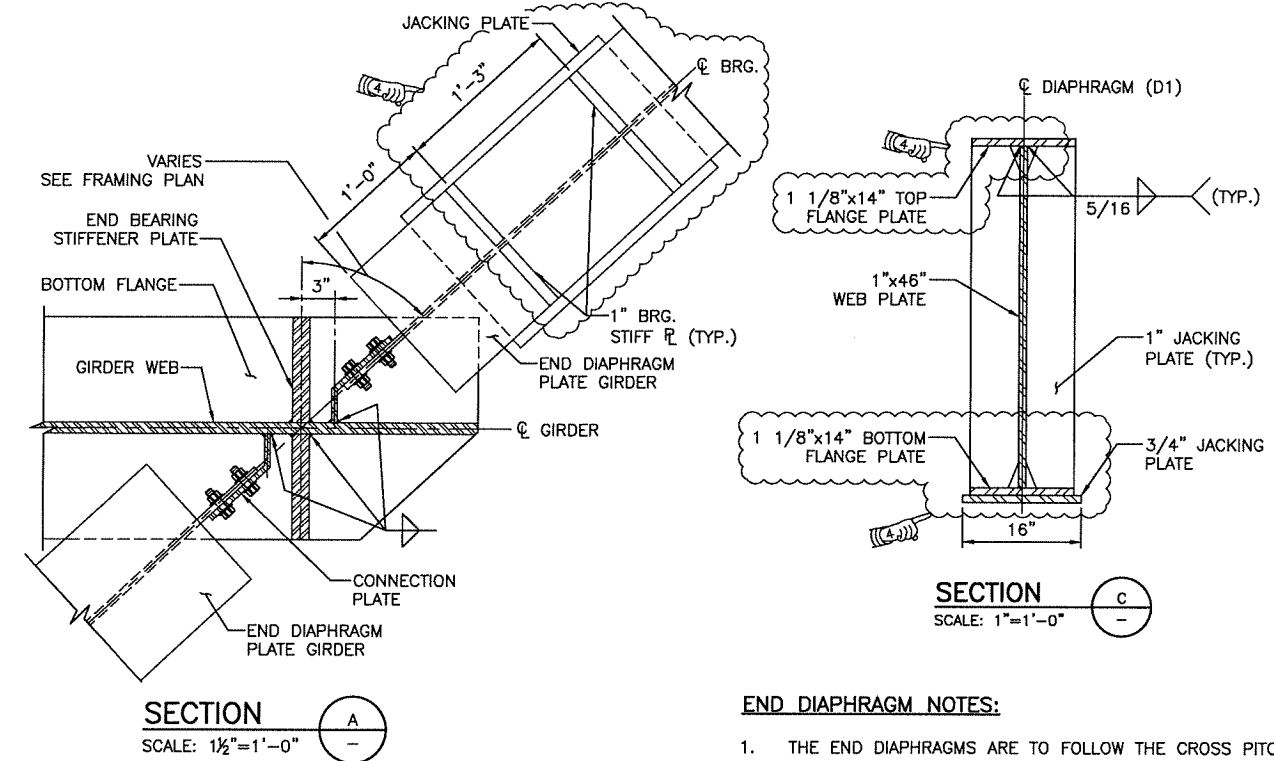






NOTE:  
END BEARING STIFFENER NOT SHOWN FOR CLARITY.

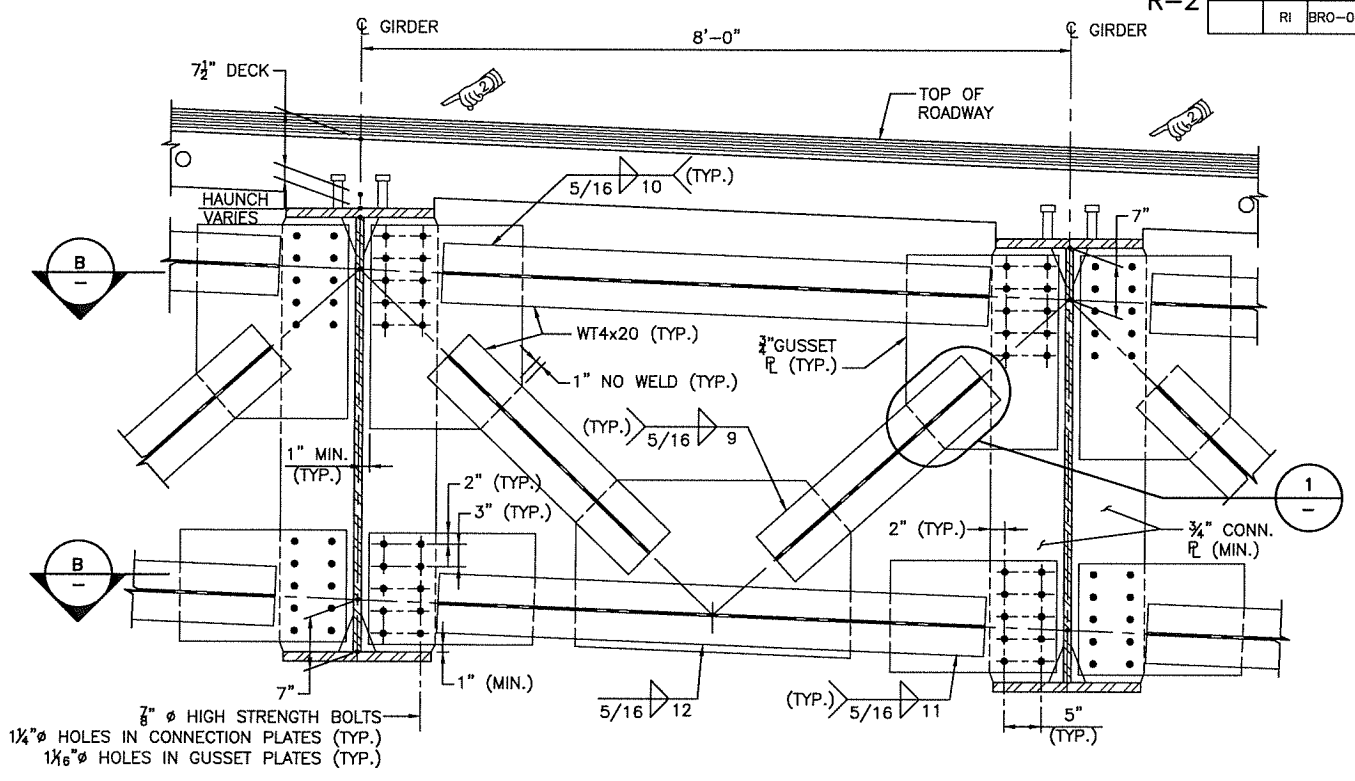
**END DIAPHRAGM (D1)**  
SCALE: 1"=1'-0"



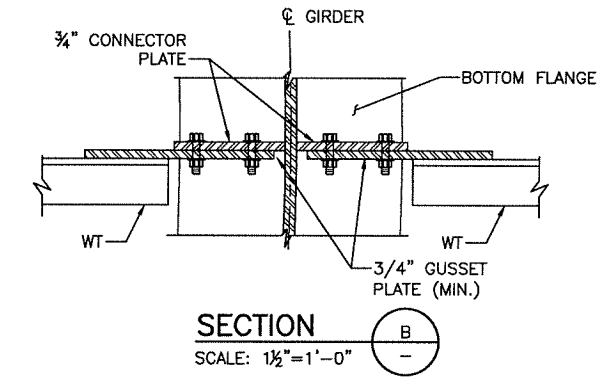
**SECTION A**  
SCALE: 1 1/2"=1'-0"

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

- END DIAPHRAGM NOTES:**
- THE END DIAPHRAGMS ARE TO FOLLOW THE CROSS PITCH OF THE ROADWAY.
  - LOCATIONS OF HOLES IN CONNECTION PLATES SHALL BE DETERMINED BY THE FABRICATOR.

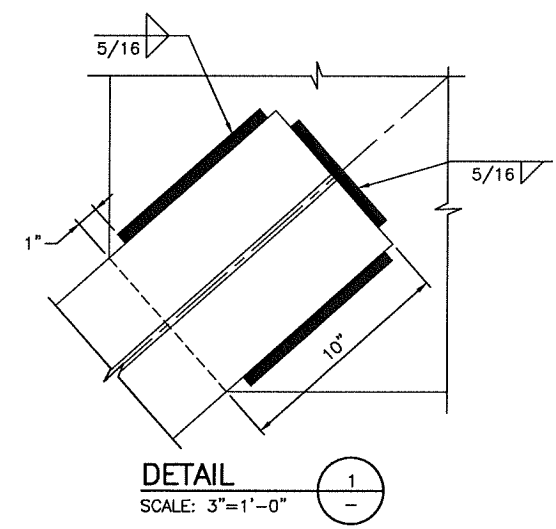


**INTERMEDIATE "K" FRAME (D2)**  
SCALE: 1"=1'-0"



**SECTION B**  
SCALE: 1 1/2"=1'-0"

- INTERMEDIATE DIAPHRAGM NOTE:**
- DO NOT TIGHTEN BOLTS UNTIL AFTER DECK IS IN PLACE.



**DETAIL 1**  
SCALE: 3"=1'-0"

ADDENDUM NO. 4

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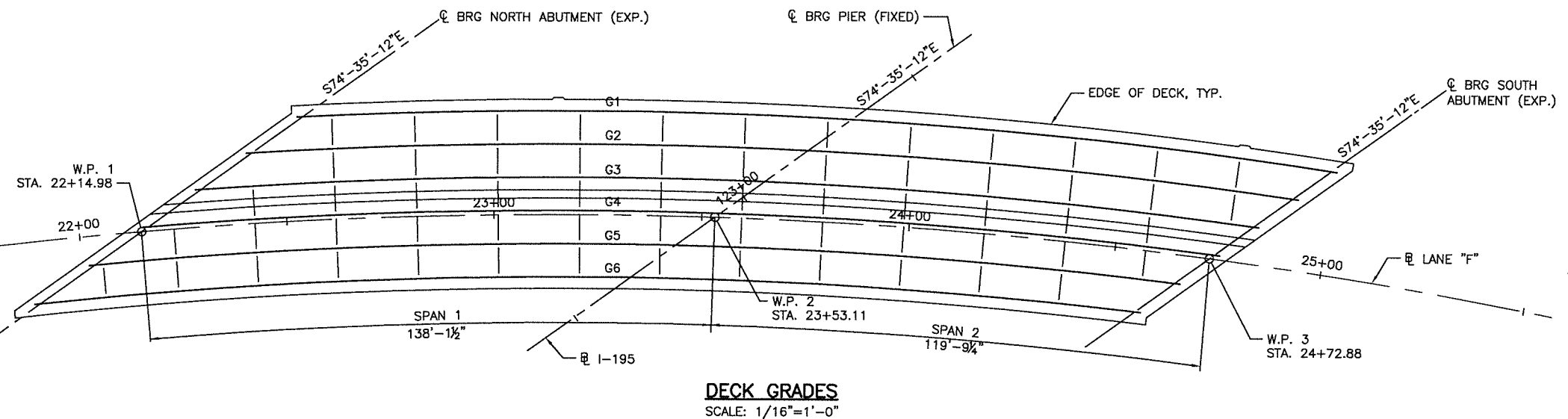
REVISIONS			RHODE ISLAND DEPARTMENT OF TRANSPORTATION	
NO.	DATE	BY	IMPROVEMENTS TO I-195 ABC BRIDGE NO. 472 OVER I-195 SUPERSTRUCTURE REPLACEMENT EAST PROVIDENCE, RHODE ISLAND	
1	10/25/17	LBC	DIAPHRAGM DETAILS	
2	12/08/17	LBC		
CHECKED BY PNF DATE 9/22/17 SCALE AS NOTED			DIAPHRAGM DETAILS.DWG	

GIRDER NO.	CL BRG. N. ABUT.	CONCRETE DECK DEFLECTIONS (INCHES)																				CL BRG. S. ABUT.
		SPAN 1									CL BRG. PIER	SPAN 2										
		0.1L	0.2L	0.3L	0.4L	0.5L	0.6L	0.7L	0.8L	0.9L		0.1L	0.2L	0.3L	0.4L	0.5L	0.6L	0.7L	0.8L	0.9L		
GIRDER G1	0.00	0.56	1.05	1.37	1.52	1.47	1.26	0.92	0.53	0.21	0.00	0.02	0.15	0.35	0.53	0.67	0.72	0.67	0.52	0.30	0.00	
GIRDER G2	0.00	0.53	0.96	1.28	1.43	1.41	1.21	0.91	0.55	0.20	0.00	0.01	0.15	0.32	0.50	0.62	0.67	0.63	0.49	0.27	0.00	
GIRDER G3	0.00	0.53	0.98	1.30	1.45	1.42	1.24	0.92	0.55	0.23	0.00	0.00	0.12	0.31	0.48	0.61	0.66	0.61	0.48	0.27	0.00	
GIRDER G4	0.00	0.56	1.04	1.38	1.54	1.51	1.31	0.99	0.60	0.22	0.00	-0.01	0.12	0.28	0.47	0.59	0.65	0.61	0.48	0.27	0.00	
GIRDER G5	0.00	0.61	1.13	1.50	1.68	1.66	1.45	1.09	0.68	0.28	0.00	-0.03	0.08	0.27	0.44	0.58	0.64	0.61	0.48	0.27	0.00	
GIRDER G6	0.00	0.67	1.24	1.67	1.90	1.90	1.68	1.29	0.80	0.33	0.00	-0.06	0.04	0.21	0.41	0.56	0.63	0.61	0.48	0.27	0.00	

GIRDER NO.	CL BRG. N. ABUT.	SUPERIMPOSED DEAD LOAD DEFLECTIONS (INCHES)																				CL BRG. S. ABUT.
		SPAN 1									CL BRG. PIER	SPAN 2										
		0.1L	0.2L	0.3L	0.4L	0.5L	0.6L	0.7L	0.8L	0.9L		0.1L	0.2L	0.3L	0.4L	0.5L	0.6L	0.7L	0.8L	0.9L		
GIRDER G1	0.00	0.23	0.44	0.57	0.64	0.62	0.53	0.39	0.22	0.09	0.00	0.01	0.06	0.14	0.22	0.28	0.30	0.28	0.22	0.13	0.00	
GIRDER G2	0.00	0.18	0.33	0.45	0.51	0.51	0.44	0.34	0.21	0.08	0.00	-0.01	0.03	0.09	0.15	0.20	0.22	0.21	0.17	0.09	0.00	
GIRDER G3	0.00	0.17	0.31	0.41	0.46	0.46	0.40	0.30	0.18	0.08	0.00	-0.01	0.02	0.07	0.12	0.16	0.18	0.17	0.14	0.08	0.00	
GIRDER G4	0.00	0.18	0.33	0.44	0.49	0.47	0.41	0.30	0.18	0.07	0.00	-0.01	0.03	0.07	0.13	0.16	0.18	0.17	0.13	0.07	0.00	
GIRDER G5	0.00	0.21	0.39	0.52	0.57	0.56	0.48	0.35	0.21	0.08	0.00	-0.01	0.03	0.09	0.15	0.19	0.21	0.20	0.15	0.09	0.00	
GIRDER G6	0.00	0.25	0.47	0.62	0.70	0.70	0.62	0.47	0.29	0.12	0.00	-0.02	0.03	0.10	0.18	0.24	0.27	0.26	0.20	0.11	0.00	

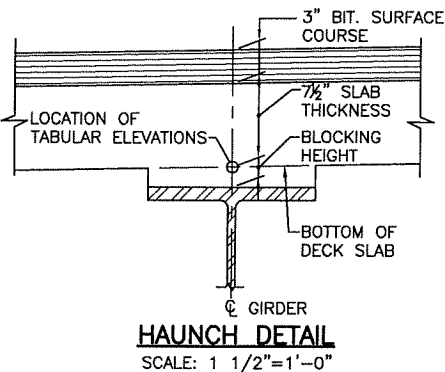
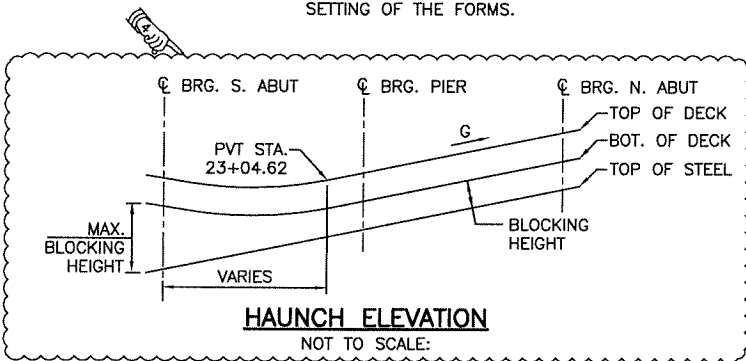
GIRDER NO.	CL BRG. N. ABUT.	TOP OF FORM ELEVATIONS BEFORE PLACEMENT OF CONCRETE																			
		SPAN 1									CL BRG. PIER	SPAN 2									CL BRG. S. ABUT.
		0.1L	0.2L	0.3L	0.4L	0.5L	0.6L	0.7L	0.8L	0.9L		0.1L	0.2L	0.3L	0.4L	0.5L	0.6L	0.7L	0.8L	0.9L	
GIRDER G1	76.59	77.81	78.95	79.87	80.56	80.97	81.16	81.16	81.08	81.12	81.30	81.75	82.36	83.07	83.75	84.38	84.87	85.24	85.45	85.55	85.56
GIRDER G2	75.88	77.01	78.02	78.92	79.60	80.06	80.30	80.38	80.38	80.40	80.61	81.05	81.66	82.31	83.00	83.59	84.10	84.47	84.73	84.87	84.94
GIRDER G3	75.18	76.28	77.30	78.17	78.84	79.28	79.54	79.63	79.65	79.72	79.92	80.35	80.93	81.62	82.27	82.88	83.39	83.78	84.04	84.21	84.31
GIRDER G4	74.48	75.61	76.67	77.54	78.21	78.65	78.88	78.96	78.96	78.99	79.21	79.65	80.25	80.90	81.59	82.20	82.71	83.11	83.39	83.56	83.67
GIRDER G5	73.78	74.99	76.10	77.03	77.71	78.14	78.34	78.36	78.33	78.33	78.50	78.92	79.51	80.22	80.89	81.53	82.07	82.47	82.75	82.93	83.03
GIRDER G6	73.10	74.39	75.58	76.58	77.33	77.78	77.96	77.93	77.78	77.68	77.77	78.16	78.77	79.46	80.20	80.87	81.43	81.86	82.14	82.31	82.38

GIRDER NO.	CL BRG. N. ABUT.	FINISH GRADE ELEVATIONS ALONG C.L. GIRDER																				
		SPAN 1									CL BRG. PIER	SPAN 2										CL BRG. S. ABUT.
		0.1L	0.2L	0.3L	0.4L	0.5L	0.6L	0.7L	0.8L	0.9L		0.1L	0.2L	0.3L	0.4L	0.5L	0.6L	0.7L	0.8L	0.9L		
GIRDER G1	77.47	77.89	78.34	78.80	79.28	79.76	80.24	80.73	81.21	81.69	82.18	82.60	83.03	83.45	83.88	84.30	84.73	85.16	85.58	86.01	86.43	
GIRDER G2	76.76	77.18	77.61	78.06	78.53	79.02	79.52	80.01	80.50	81.00	81.49	81.92	82.35	82.79	83.22	83.65	84.08	84.51	84.95	85.38	85.81	
GIRDER G3	76.05	76.46	76.89	77.33	77.80	78.28	78.78	79.28	79.79	80.29	80.79	81.23	81.67	82.11	82.55	82.99	83.43	83.86	84.30	84.74	85.18	
GIRDER G4	75.35	75.75	76.17	76.60	77.06	77.54	78.03	78.55	79.06	79.57	80.09	80.53	80.98	81.43	81.87	82.32	82.76	83.21	83.65	84.10	84.55	
GIRDER G5	74.66	75.05	75.45	75.88	76.33	76.80	77.29	77.80	78.32	78.85	79.37	79.83	80.28	80.73	81.18	81.64	82.09	82.54	83.00	83.45	83.90	
GIRDER G6	73.97	74.35	74.74	75.16	75.60	76.06	76.54	77.05	77.57	78.11	78.65	79.11	79.57	80.03	80.49	80.95	81.41	81.87	82.33	82.79	83.26	



DECK GRADE NOTES:

- ELEVATIONS OF GIRDERS ARE GIVEN AT THE CENTERLINE OF BEARING OF EACH GIRDER AND AT THE TENTH POINTS OF EACH SPAN.
- FINISH GRADE ELEVATIONS SHOWN IN THE TABLE ARE THE PROPOSED TOP OF DECK ELEVATIONS AFTER ALL DEAD LOADS HAVE TAKEN PLACE.
- TOP OF GIRDER ELEVATIONS SHOWN IN THE TABLE ARE THE THEORETICAL ELEVATIONS AT THE TOP OF GIRDER PRIOR TO PLACING OF CONCRETE.
- BEFORE THE FORMS ARE BUILT, ELEVATIONS ON THE TOPS OF GIRDER SHALL BE OBTAINED AT THE POINTS INDICATED IN THE TABLE. THE DIFFERENCE BETWEEN THE ELEVATIONS OBTAINED AND THE TOP OF FORM ELEVATIONS SHOWN IN THE TABLE ARE THE ACTUAL BLOCKING DISTANCES FROM THE TOP OF GIRDER TO THE BOTTOM OF SLAB AT THE CENTERLINE OF GIRDER. IF THE ACTUAL ELEVATIONS OBTAINED VARY BY MORE THAN 1", THE ENGINEER SHALL BE CONTACTED, AND ANY ADJUSTMENTS APPROVED, PRIOR TO SETTING OF THE FORMS.



NOTE:

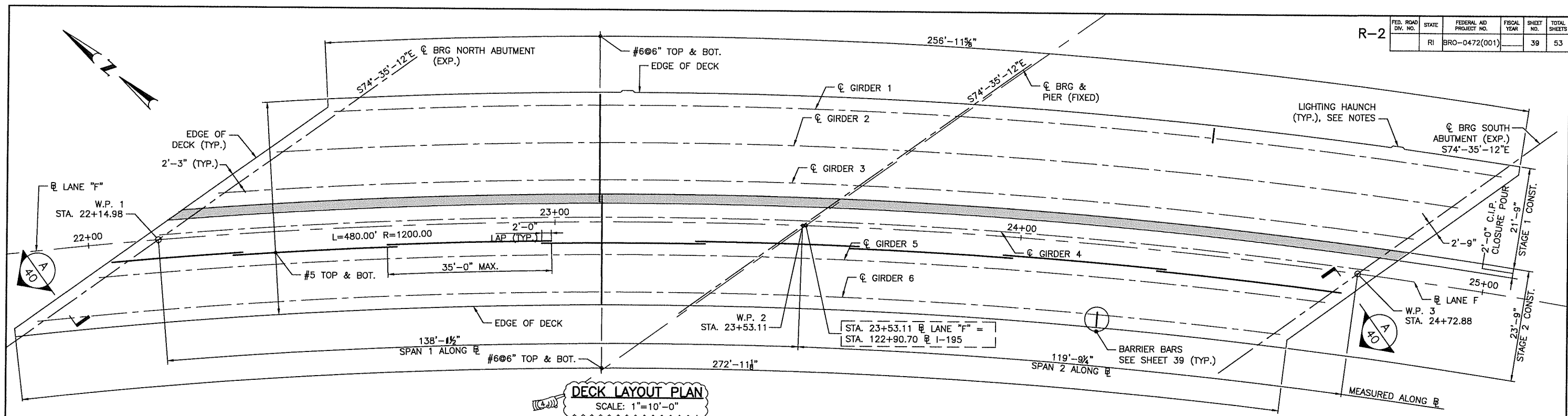
AFTER THE GIRDERS ARE ERECTED, BUT BEFORE THE DECK IS PLACED, ELEVATIONS ON THE TOP OF FLANGE OF THE GIRDERS ARE TO BE OBTAINED AT THE POINTS INDICATED IN THE ELEVATION TABLE. THE DIFFERENCE BETWEEN THE ELEVATIONS OBTAINED AND THOSE SHOWN IN THE TABLE GIVES THE ACTUAL BLOCKING DISTANCE FROM THE TOP OF FLANGE TO THE BOTTOM OF SLAB AT CENTER LINE OF WEB.

REVISIONS			RHODE ISLAND	
NO.	DATE	BY	DEPARTMENT OF TRANSPORTATION	
1	10/25/17	LBS	IMPROVEMENTS TO I-195 ABC BRIDGE NO. 472 OVER I-195 SUPERSTRUCTURE REPLACEMENT EAST PROVIDENCE, RHODE ISLAND	
2	12/06/17	LBS		
			DECK GRADES	
			CHECKED BY PNF DATE 9/22/17 SCALE AS NOTED	

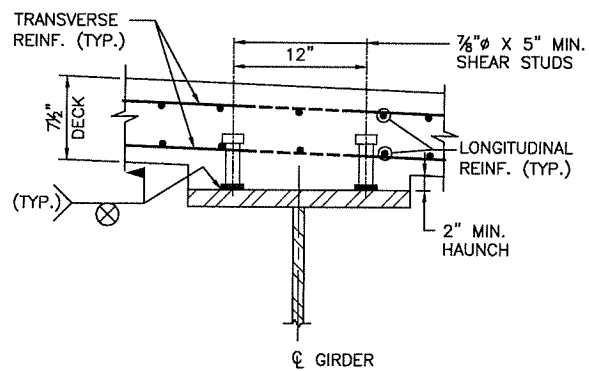
ADDENDUM NO. 4



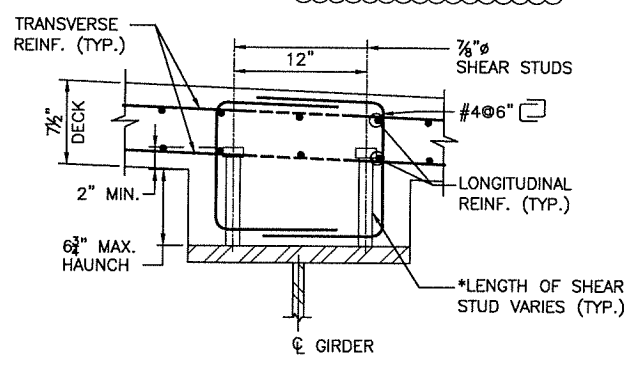
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**DECK LAYOUT PLAN**  
SCALE: 1"=10'-0"



**SHEAR CONNECTOR DETAIL**  
FOR HAUNCHES ≤ 4"  
SCALE: 1 1/2"=1'-0"



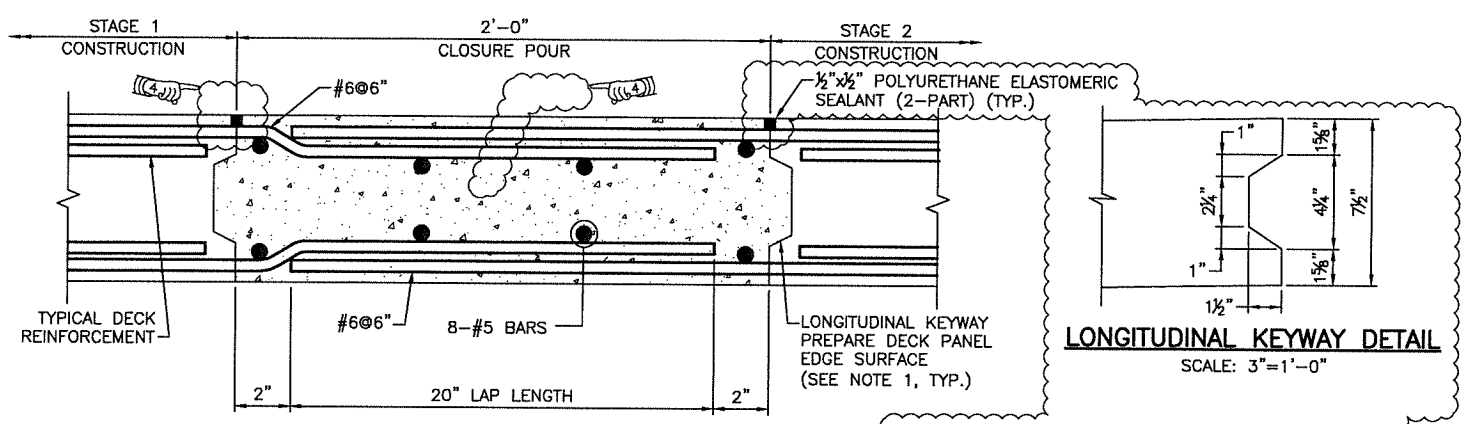
**SHEAR CONNECTOR FOR HAUNCH > 4"**  
SCALE: 1 1/2"=1'-0"

**NOTES:**

1. FOR ADDITIONAL PLAN REINFORCING DETAILS SEE SHEETS 40 AND 43.
2. SPACE HAUNCH REINFORCING BETWEEN GIRDERS OR BEAMS AND TIE TO BOTTOM REINFORCING OF DECK.
3. TRANSVERSE REINFORCEMENT LISTED AS STRAIGHT SHALL BE SHOP OR FIELD BENT AS REQUIRED TO PROVIDE MINIMUM COVER.
4. DECK SLAB REINFORCING COVER SHALL HAVE TOLERANCE OF (+)1/4", (-)0" FOR TOP BARS AND (+)1/8", (-)0" FOR BOTTOM BARS.
5. CHAIRS SHALL BE SPACED TO PROVIDE THE REQUIRED CONCRETE COVER WITH THE SPECIFIED TOLERANCES. MAXIMUM SPACING OF CHAIRS SHALL BE 5'-0" ON CENTER, PREFERABLY LOCATED AT THE INTERSECTION OF REINFORCEMENT. CHAIRS SHALL HAVE APPROVED CORROSION PROTECTION (i.e. EPOXY COATED, PLASTIC COATED, ETC.).
6. DECK CONCRETE PLACEMENT SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS OF THE SPECIAL PROVISIONS.
7. SHOULD ADDITIONAL HAUNCH REINFORCING OR ADJUSTMENTS TO THE SHEAR STUD LENGTHS BE NECESSARY DUE TO DEVIATIONS IN THE AS BUILT CAMBER OF THE SUPERSTRUCTURE STEEL IT SHALL BE CONSIDERED AS INCIDENTAL TO THE APPROPRIATE BID ITEMS FOR REINFORCING STEEL AND/OR SHEAR STUDS. THE ADJUSTED LENGTHS OF SHEAR STUDS SHALL BE DETERMINED BY THE ENGINEER. THE REQUIREMENTS FOR REINFORCING HAUNCHES GREATER THAN 4" HIGH AS SHOWN ON THIS SHEET.
8. FOR LOCATION OF LIGHTS, SEE GENERAL PLAN SHEET 7. FOR LIGHT SUPPORT DETAILS, SEE SHEET 49.

**SHEAR STUD NOTES:**

1. HAUNCH MUST BE REINFORCED WHERE DEPTH EXCEEDS 4". AT THESE LOCATIONS, USE THE REINFORCING LAYOUT SHOWN.
2. \* INDICATES LENGTH OF SHEAR STUD VARIES. EXTEND 3" MIN. TO 5 1/2" MAX. INTO DECK.
3. METHOD OF FORMING HAUNCH TO BE DETERMINED BY THE CONTRACTOR. REMOVE FORMS AFTER 24 HOURS.



**TYPICAL LONGITUDINAL CLOSURE POUR DETAIL**  
SCALE: 3"=1'-0"

**LONGITUDINAL KEYWAY DETAIL**  
SCALE: 3"=1'-0"

ENTIRE SHEET REPLACED BY  
ADDENDUM NO. 2

REVISIONS			RHODE ISLAND DEPARTMENT OF TRANSPORTATION	
NO.	DATE	BY		
1	10/25/17	LBG		
2	12/06/17	LBG		
			IMPROVEMENTS TO I-195 ABC BRIDGE NO. 472 OVER I-195 SUPERSTRUCTURE REPLACEMENT EAST PROVIDENCE, RHODE ISLAND	
			DECK PLAN	
			CHECKED BY PNF DATE 9/22/17 SCALE AS NOTED	

ADDENDUM NO. 4

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