

May 2, 2019

STATE OF RHODE ISLAND AND PROVIDENCE PLANTATION
DEPARTMENT OF ADMINISTRATION

DIVISION OF PURCHASES BID NO. 7598707

RHODE ISLAND DEPARTMENT OF TRANSPORTATION

RHODE ISLAND CONTRACT NO.2018-CB-022

FEDERAL-AID PROJECT NO. FAP Nos: BRO-0403(030)

Bridge Group 54A -Kingston Rd Bridge

I-95 Southbound Sta. 851+00 to Sta. 895+50

I-95 Northbound Sta. 837+50 to Sta. 889+00

Kingstown Road Sta. 304+50 to Main Street Sta. 321+00

CITY/TOWN OF Richmond

COUNTY OF WASHINGTON

NOTICE TO PROSPECTIVE BIDDERS

ADDENDUM NO. 2 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. Project Limits

Project Limits have been added for Clarification. Project Limits are:

I-95 Southbound Sta. 851+00 to Sta. 895+50

I-95 Northbound Sta. 837+50 to Sta. 889+00

Kingstown Road Sta. 304+50 to Main Street Sta. 321+00

2. Questions and Answers for Bridge Group 54A - I-95 Kingston Road

A copy of the Questions and Answers for the Bridge Group 54A - I-95 Kingston Road is attached to this Addendum No. 2.

B. Specification Change/Addition

1. Page CS-7

Remove Page CS-7 in its entirety and replace with revised page CS-7 (R-1) attached to this Addendum No. 2. National Grid will perform the temporary and final tie-in of the new highway lighting system and traffic signal system.

2. Page JS-55

Remove Page JS-55 in its entirety and replace with revised page JS-55 (R-1) attached to this Addendum No. 2. Description of work has been revised.

3. Page JS-94

Remove Page JS-94 in its entirety and replace with revised page JS-94 (R-1) attached to this Addendum No. 2. Materials for GRS Abutments & Walls with Modular Block Facing has been revised.

4. Page JS-96

Remove Page JS-96 in its entirety and replace with revised page JS-96 (R-1) attached to this Addendum No. 2. Materials for GRS Abutments & Walls with Modular Block Facing has been revised.

5. Page JS-108

Remove Page JS-108 in its entirety and replace with revised page JS-108 (R-1) attached to this Addendum No. 2. Structural Steel & Rebar Base Prices for Contracts has been updated.

C. Distribution of Quantities

1. Index Page 1

Remove Index Page 1 (R-1) and replace it with revised Index Page 1 (R-2) attached to this Addendum No. 2. The Table of Contents has been revised.

2. Page 41

Remove Page 41 and replace it with revised Page 41 (R-1) and new Page 41a attached to this Addendum No. 2. The quantity for Item Code 302.0100 has been revised.

3. Page 42

Remove Page 42 and replace it with revised Page 42 (R-1) and new Page 42a attached to this Addendum No. 2. The quantity for Item Code 302.0100 has been revised.

4. Page 46

Remove Page 46 and replace it with revised Page 46 (R-1) and new Page 46a attached to this Addendum No. 2. The quantity for Item Code 401.2100 has been revised.

5. Assembly Page 9 and Assembly Page 10

Remove Assembly Page 9 and Assembly Page 10 and replace it with revised Assembly Page 9 (R-1) and Assembly Page 10 (R-1) and new Assembly Page 11 attached to this Addendum No. 2. Assembly Pavement Type 'P-8' has been added.

D. Drawings/Plans - Change/Addition

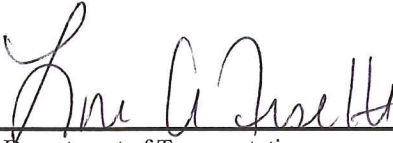
1. Volume 1 Plan Sheet No. 5 - Job Specific Legend

Remove Volume 1 Sheet No. 5 (R-1) in its entirety and replace it with revised Sheet No. 5 (R-2) attached to this Addendum No. 2. Job Specific Legend has been revised.

2. Volume 2 Plan Sheet No. 14 - GRS Wall at North Abutment

Remove Volume 2 Sheet No. 14 in its entirety and replace it with revised Sheet No. 14 (R-1) attached to this Addendum No. 2. GRS Wall at North Abutment sheet has been revised.

3. Volume 2 Plan Sheet No. 15 - GRS Wall at South Abutment
Remove Volume 2 Sheet No. 15 in its entirety and replace it with revised Sheet No. 15 (R-1) attached to this Addendum No. 2. GRS Wall at South Abutment sheet has been revised.
4. Volume 2 Plan Sheet No. 18 - North Abutment Plan & Elevation
Remove Volume 2 Sheet No. 18 in its entirety and replace it with revised Sheet No. 18 (R-1) attached to this Addendum No. 2. North Abutment Plan & Elevation sheet has been revised.
5. Volume 2 Plan Sheet No. 19 - South Abutment Plan & Elevation
Remove Volume 2 Sheet No. 19 in its entirety and replace it with revised Sheet No. 19 (R-1) attached to this Addendum No. 2. South Abutment Plan & Elevation sheet has been revised.
6. Volume 2 Plan Sheet No. 20 - Typical Abutment Sections & Details Sheet 1
Remove Volume 2 Sheet No. 20 in its entirety and replace it with revised Sheet No. 20 (R-1) attached to this Addendum No. 2. Typical Abutment Sections & Details Sheet 1 has been revised.
7. Volume 2 Plan Sheet No. 26 - Framing Plan
Remove Volume 2 Sheet No. 26 in its entirety and replace it with revised Sheet No. 26 (R-1) attached to this Addendum No. 2. Framing Plan sheet has been revised.
8. Volume 2 Plan Sheet No. 32 - Pre-Fabricated Bridge Units Details Sheet 1
Remove Volume 2 Sheet No. 32 in its entirety and replace it with revised Sheet No. 32 (R-1) attached to this Addendum No. 2. Pre-Fabricated Bridge Units Details Sheet No. 1 has been revised.



RI Department of Transportation
Administrator, Division of Project Management

Questions and Answers For:

Bridge Group 54A - Kingston Road 2018-CB-022

Please Note: *If this is the first time accessing our system on our new web site, you will be required to reset your password.*

**The ask question function is now disabled;
please call 401-222-2495 x 4100 with any new questions.**

Date Asked: 04/30/2019

Date Answered: 05/01/2019

Poster: Anthony Mesiti

Company: Cardi Corporation

Question:

JS 929 adds equipment for the materials laboratory to the standard specifications. There is no item for a materials laboratory. Please clarify how this equipment will be paid.

Answer:

The specified equipment described in JS 929 shall be considered for payment under Item Code 929.0110 FIELD OFFICE.

Date Asked: 04/30/2019

Date Answered: 05/01/2019

Poster: Anthony Mesiti

Company: Cardi Corporation

Question:

JS 938.1000 includes provisions for the base price of steel and utilizes a table with base prices from November 2018. Should this table be updated.

Answer:

An updated table of base prices for steel will be added by Addendum.

Date Asked: 04/30/2019

Date Answered: 05/01/2019

Poster: Anthony Mesiti

Company: Cardi Corporation

Question:

The project special provisions for 911.11 requires the use of RIDOT Class HP (AE) mix as well as testing of the modular blocks for freeze thaw in accordance with ASTM C1262. These requirements contradict each other as Class HP is a wet cast product and ASTM is a test for dry cast materials. Additionally, per the National Concrete Masonry Association, the requirements for Alkali-Silica Reaction (ASR), Chloride Permeability and Dry Shrinkage required by the RI Standard Specifications as referenced in the special provision are not relevant to dry cast concrete blocks for dry stacked segmental walls. Please clarify this specification.

Answer:

The specification will be clarified by Addendum.

Date Asked: 04/29/2019**Date Answered:** 05/01/2019**Poster:** Anthony Mesiti**Company:** Cardi Corporation**Question:**

PLEASE CLARIFY HOW THE CIP MEDIAN TRANSITION BARRIER IS PAID FOR.

Answer:

The CIP Median Transition Barrier shall be included for payment under Item Code 800.9901 KINGSTON ROAD BRIDGE NO. 403. This will be clarified in the associated JS by Addendum.

Date Asked: 04/29/2019**Date Answered:** 05/01/2019**Poster:** paul grimaldi**Company:** J. F. WHITE CONTRACTING CO.**Question:**

to clarify previous question----minimum clearance refers to ,----distance between relocated overhead cables and ground,---- east and west side of the rte. 95 bridge,---- along rte. 138

Answer:

Please see response to the original question. The overhead lines include those that cross over I-95 as well as those that cross under the bridge.

Date Asked: 04/29/2019**Date Answered:** 04/30/2019**Poster:** paul grimaldi**Company:** J. F. WHITE CONTRACTING CO.**Question:**

what will the minimum clearance be , once national grid - electric , Verizon and Cox cables are relocated ?

Answer:

All overhead utility lines along Kingstown Road (Rte. 138), between Sta. 310+84 (+/-) and Sta. 313+50 (+/-), will be relocated underground.

Date Asked: 04/26/2019**Date Answered:** 04/26/2019**Poster:** Anthony Mesiti**Company:** Cardi Corporation

Question:

HAVING PROBLEMS DOWNLOADING ADDENDUM NO. 1.

Answer:

Addendum No. 1 is downloadable in .pdf form at the following link:
<http://www.purchasing.ri.gov/RIVIP/StateAgencyBids/7598707A1.pdf>

Date Asked: 04/25/2019**Date Answered:** 04/25/2019**Poster:** Anthony Mesiti**Company:** Cardi Corporation**Question:**

Please clarify if the soil reinforcement and precast block facing for the GRS abutments are paid under items 301.9902, 301.9903 or item 800.9901.

Answer:

As described in Special Provision Code 800.9901, all components of the GRS Abutments are included in the Lump Sum payment for Item 800.9901 with the exception of the "Excluded Items of Work".

Date Asked: 04/25/2019**Date Answered:** 04/25/2019**Poster:** Anthony Mesiti**Company:** Cardi Corporation**Question:**

Will stay-in-place forms be allowed to fabricate the PBU's?

Answer:

RIDOT will allow use of stay-in-place forms (SIP's). The SIP's shall be designed and detailed to produce the dimensional requirements indicated on the Contract Drawings. All associated design, details, and product specifications shall be provided by the Contractor for review and approval by the Engineer.

Date Asked: 04/24/2019**Date Answered:** 04/26/2019**Poster:** Joe Colapietro**Company:** Cardi Corporation**Question:**

For the Utility Work Time, can we get a breakout of what is needed for scheduling for the Utility relocation in Stage 1 on Kingston Rd, and for the Temporary Signal Tie-ins.

Answer:

The Contract Documents adequately identify the necessary Contractor work tasks and utility company work tasks required to be performed prior to Phase 1 bridge work. A breakdown of the utility company work tasks is not available; the Contractor need only utilize the designated downtimes listed in the CS Pages in development of his schedule. The temporary signal tie-in will be performed by National Grid; this will be added to the CS Pages by Addendum.

Date Asked: 04/23/2019**Date Answered:** 04/25/2019**Poster:** Joe Colapietro**Company:** Cardi Corporation

Question:

Crossover between ramps G and H calls for pavement structure P-5, is this the correct pavement structure for this area?

Answer:

Crossover between Ramps G and H calls for pavement structure P-8, as shown on Volume 1 Sheet 121.

Date Asked: 04/23/2019**Date Answered:** 04/25/2019**Poster:** Joe Colapietro**Company:** Cardi Corporation**Question:**

What is the makeup of the P-8 Pavement Structure?

Answer:

P-8 is a temporary pavement that includes 3" Modified Class 12.5 HMA and 12" Gravel Borrow Subbase Course. Description of Pavement Structure P-8 will be added by Addendum.

Date Asked: 04/22/2019**Date Answered:** 04/25/2019**Poster:** paul grimaldi**Company:** J. F. WHITE CONTRACTING CO.**Question:**

Please confirm-----Due to the phase line SOE , the GRS/IBS Abutments (both north and south) , once they are completed , will not be one continuous abutment , but will have a non connecting joint at the phase line.

Answer:

Due to the phase line SOE, the GRS/IBS Abutments will have a non-connecting joint along the phase line. Notes and/or details will be added to the Contract Drawings by Addendum to clarify.

B. The estimated duration of activities is subject to change, however the total downtime listed below for each utility company shall be used for construction scheduling. The following is a summary of the utility downtime:

<u>Utility</u>	<u>Utility Work Time (Total # of Weeks)</u>
National Grid – Electric	12 weeks
Verizon	15 weeks
Cox Cable	4 weeks

The following utility work is anticipated to be performed by utility companies:

- New utility poles and overhead wires will be installed.
- New underground cables will be installed by the utility companies through new conduit and ducts installed by the RIDOT Contractor
- National Grid will perform the temporary and final tie-in of the new highway lighting system and traffic signal system

It is also required that the Contractor notify each utility no less than six (6) weeks in advance of the date and time that the Contractor intends to do work that might affect the utility's facilities.

The Contractor shall provide all necessary temporary traffic control and survey layout for utility work to be performed.

The Transportation Management Center (TMC) shall be notified 24 hours prior to the relocation of the conduits, hand holes and disruption in services to the TMC devices (Closed Circuit Video Equipment – CCVE and Radar Vehicle Detector – RVD).

The Contractor shall coordinate with Cox Communication and National Grid for the communication and power to the TMC devices (Closed Circuit Video Equipment – CCVE and Radar Vehicle Detector – RVD).

The Contractor shall notify the Engineer a minimum of 4 weeks prior to any temporary utility shut-off. The Engineer will be responsible to notify the local officials and utility companies in order for them to inform the affected residents.

11. COORDINATION WITH OTHER CONTRACTORS

Refer to Section 105.07 of the RI Standard Specifications. The Contractor shall coordinate with the Baker Pines Bridge No. 593 replacement project. Plans for this project include detouring Route 3 traffic to the Route 138 interchange.

**CODE 800.9901
KINGSTON ROAD BRIDGE NO. 403**

DESCRIPTION:

Except for the excluded items of work indicated below, the work under this item shall consist of constructing the Kingston Road Bridge No. 403 in its entirety. This shall comprise all work pertaining to the construction of:

- Superstructure: All the components above the beam seats inclusive of all the bridge bearings, the roadway bridge joints, and any and all components or materials embedded, attached, or applied.
- Substructure:
 - All the components of the Geosynthetic Reinforced Soil (GRS) abutments from the bottom of the Reinforced Soil Foundation (RSF) to the underside of the approach slab and the top of the precast concrete wall cap.
 - All the components of the GRS walls from the bottom of the RSF to the top of the precast concrete wall cap.
 - All the components from the bottom of the precast footings up to the tops of the precast concrete beam pedestals inclusive of any and all components or materials that are embedded, attached, or applied.
 - All the components of precast concrete wingwalls from the bottom of the precast footings up to the tops of the precast concrete barriers and endposts, inclusive of any and all components or materials that are embedded, attached, or applied.
 - The work under this item shall also include all the work pertaining to the construction of the precast reinforced concrete approach slabs, cast in place curtain walls, and cast in place median transition barrier inclusive of any and all components or materials that are embedded, attached, or applied; all grout below or between all of the various precast components; and the Temporary Earth Retaining Systems and Dewatering.

All of the above work shall be complete in place and accepted in accordance with the Contract Documents except that the Method of Measurement and the Basis of Payment will be in accordance with these Special Provisions.

Excluded Items of Work: The work pertaining to the following items of work are excluded from this lump sum item and instead will be measured and be paid for separately under their own appropriate unit bid or lump sum items as listed in the Proposal: Earthwork (various structural excavation and various fill materials).

CODE 911.99
GRS ABUTMENTS & WALLS WITH MODULAR BLOCK FACING

DESCRIPTION:

The work under this item shall consist of all work associated with furnishing materials and constructing the Geosynthetic Reinforced Soil (GRS) Abutment and Walls with precast concrete modular block facing, including the Reinforced Soil Foundation (RSF), to lines and grades designated in the Contract Drawings and the approved shop drawings. All work shall be performed in accordance with the Rhode Island Standard Specifications and this Special Provision.

MATERIALS:

The Contractor shall furnish the Engineer a Certificate of Compliance, certifying that the applicable materials meet the requirements of this Special Provision prior to the start of work. All testing shall be performed and certified by an accredited, independent testing laboratory.

Precast Concrete Modular Block Facing Units: The precast concrete modular block facing units shall be manufactured in accordance with the applicable provisions of Sections 601 and M.02 of the RI Standard Specifications for Road and Bridge Construction with the following exceptions and additions:

- A. Precast concrete modular block facing units shall meet ASTM C1372 requirements.
- B. Shall have a minimum compressive strength of 5,000 psi.
- C. Shall have an absorption less than 5%.
- D. Precast concrete modular block facing units shall be tested for freeze-thaw durability in accordance with ASTM C1262-10.
- E. Precast units shall be randomly sampled and tested in accordance with ASTM C140-12.
- F. Precast concrete modular block facing units shall conform to the following architectural requirements:
 - Face color shall be standard concrete grey as specified by the Department; color shall be integral to the concrete.
 - Face finish of individual units shall be straight with a split rock finish.
 - Blocks shall be laid in a running bond pattern, with bonds nominally located at midpoint from vertically adjacent blocks.
 - Exposed surfaces shall be free of chips, cracks, or other visible imperfections as determined by the Engineer.

The backfill shall conform to the following additional requirements:

- The plasticity index (PI) as determined by AASHTO T 90 shall not exceed 6.
- The material shall exhibit an angle of internal friction of not less than 40 degrees, as determined by the Direct Shear Test, AASHTO T 236 (ASTM 3080), with the following parameters: A 12-inch x 12-inch direct shear box shall be used with a gap set to D85 of the actual sample being tested. The direct shear test may be run dry or in its natural moisture condition with minimal compactive effort. The test shall be run with normal stresses at 5, 10, 20, and 30 psi.
- Permeability – The material shall be free-draining and shall have a permeability coefficient greater than 1×10^{-4} centimeters per second at maximum density when measured according to AASHTO T 215.
- Soundness – The material shall be substantially free of shale or other soft, poor durability particles. The materials shall have a magnesium sulfate loss, as determined by AASHTO T 104 (ASTM C 88), of less than 30 percent after four cycles (or a sodium value less than 15 percent after five cycles).

RSF Backfill Material: RSF backfill shall be an open-graded material consisting of clean, crushed angular (not rounded) stone, free from organic or otherwise deleterious materials, meeting the gradation requirements of Filter Stone, Subsection M.01.09 Gradation of Aggregates, Table 1, Column V, as determined in accordance with AASHTO T 27:

<u>U.S. Sieve Size</u>	<u>Percent Passing</u>
1 inch	100
¾ inch	70 - 85
½ inch	10 - 40
⅜ inch	10 - 20
No. 4	0 - 5

RSF Backfill shall also meet the additional requirements specified for GRS Reinforced Backfill.

Concrete Caps: Concrete caps shall meet the requirements of the Precast Concrete Modular Block Facing Units.

Concrete Block Facing Unit Fill: Concrete shall be Class HP (AE) ¾" concrete with a minimum compressive strength of 5,000 psi.

Acceptance: The Contractor shall furnish to the Engineer a Certificate of Compliance certifying that the above materials comply with the applicable contract specifications. A copy of all test results performed by the Contractor necessary to assure contract compliance shall also be furnished to the Engineer. Acceptance will be based on the

02-28-2019

February 2019 Structural Steel & Rebar Base Prices for Contracts

Note 1: This list goes into effect February 1, 2019 and will remain in effect until revised.

Note 2: This list supersedes and replaces any earlier list.

Note 3: This list is based on the February 2019 Worksheet.

ITEM NO.	DESCRIPTION	February	February
		PRICE PER POUND	PRICE PER KILOGRAM
1	ASTM A615/A615M Grade 60 (AASHTO M31 Grade 420) Reinforcing Steel	\$ 0.40	\$ 0.87
2	ASTM A27 (AASHTO M103) Steel Castings, H-Pile Points & Pipe Pile Shoes (See Note (1) below.)	\$ 0.54	\$ 1.18
3	ASTM A668 / A668M (AASHTO M102) Steel Forgings	\$ 0.54	\$ 1.18
4	ASTM A108 (AASHTO M169) Steel Forgings for Shear Studs	\$ 0.60	\$ 1.32
5	ASTM A709/A709M Grade 36 / AASHTO M270/M270 Grade 250 Structural Steel Plate	\$ 0.65	\$ 1.43
6	ASTM A709/A709M Grade 36 / AASHTO M270/M270 Grade 250 Structural Steel Shapes	\$ 0.46	\$ 1.02
7	ASTM A709/A709M Grade 50 / AASHTO M270/M270 Grade 345 Structural Steel Plate	\$ 0.57	\$ 1.26
8	ASTM A709/A709M Grade 50 / AASHTO M270/M270 Grade 345 Structural Steel Shapes	\$ 0.46	\$ 1.02
9	ASTM A709/A709M Grade 50WT / AASHTO M270/M270 Grade 345WT Structural Steel Plate	\$ 0.67	\$ 1.49
10	ASTM A709/A709M Grade 50WT / AASHTO M270/M270 Grade 345WT Structural Steel Shapes	\$ 0.51	\$ 1.13
11	ASTM A709/A709M Grade 50W / AASHTO M270/M270 Grade 345W Structural Steel Plate	\$ 0.61	\$ 1.35
12	ASTM A709/A709M Grade 50W / AASHTO M270/M270 Grade 345W Structural Steel Shapes	\$ 0.47	\$ 1.05
13	ASTM A709/A709M Grade HPS 50W / AASHTO M270/M270 Grade HPS 345W Structural Steel Plate	\$ 0.69	\$ 1.52
14	ASTM A709/A709M Grade HPS 70W / AASHTO M270/M270 Grade HPS 485W Structural Steel Plate	\$ 0.73	\$ 1.60
15	ASTM A514/A514M-05 Grade HPS 100W / AASHTO M270/M270 Grade HPS 690W Structural Steel Plate	\$ 1.11	\$ 2.45
16	ASTM A276 Type 316 Stainless Steel	\$ 3.30	\$ 7.27
17	ASTM A240 Type 316 Stainless Steel	\$ 3.30	\$ 7.27
18	ASTM A148 Grade 80/50 Steel Castings (See Note (1) below.)	\$ 1.14	\$ 2.52
19	AASHTO M270/M270 Grade 345W Structural Steel Plate - same as Item #11.	Same as Item #11.	
20	AASHTO M270/M270 Grade HPS 345W Structural Steel Plate - same as Item #13.	Same as Item #13.	
21	AASHTO M270/M270 Grade 250 Structural Steel Plate - same as Item #5.	Same as Item #5.	
22	ASTM A53 Grade B Structural Steel Pipe	\$ 0.73	\$ 1.62
23	ASTM A500 Grades A, B, 36 & 50 Structural Steel Pipe	\$ 0.73	\$ 1.62
24	ASTM A252, Grades 240 (36 KSI) & 414 (60 KSI) Pipe Pile	\$ 0.57	\$ 1.25
25	ASTM 252, Grade 2 Permanent Steel Casing	\$ 0.57	\$ 1.25
26	ASTM A36 (AASHTO M183) H-piles, steel supports and sign supports	\$ 0.49	\$ 1.09
27	ASTM A328 / A328M, Grade 50 (AASHTO M202) Steel Sheetpiling	\$ 1.09	\$ 2.39
28	ASTM A572 / A572M, Grade 50 Sheetpiling	\$ 1.08	\$ 2.38
29	ASTM A36/36M, Grade 50	\$ 0.64	\$ 1.40
30	ASTM A570, Grade 50	\$ 0.63	\$ 1.39
31	ASTM A572 (AASHTO M223), Grade 50 H-Piles	\$ 0.47	\$ 1.03
32	ASTM A1085 Grade A (50 KSI) Steel Hollow Structural Sections (HSS), heat-treated per ASTM A1085 Supplement S1	\$ 0.74	\$ 1.63

NOTES:

(1) Steel Castings are generally used only on moveable bridges. Cast iron frames, grates and pipe are not "steel" castings and will not be considered for price adjustments.

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 Estimate Name - Bridge Group 54A - I-95 Kingston Rd - Addendum 2
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 FAP Nos: BRO-0403(030)

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Distribution of Quantities

Project Name - Bridge Group 54A -Kingston Rd Bridge
 Estimate Name - Bridge Group 54A - I-95 Kingston Rd - Addendum 2
 R.I. Contract No. - 2018-CB-022
 FAP Nos: BRO-0403(030)

Item No.	Item Code	Description	UM	Qty.	Pay Code	Seq. No.
046	302.0100 Cont.	RAMP A (RHHRC)				
		15+75 TO 6+84 LT & RT (RHHRC)		16.30	0011	01
		RAMP B (BITDW)				
		3+00 TO 5+00 LT (MEDIAN)		19.78	0011	01
		(BITDW)				
		RAMP B (CURBS)				
		0+73 TO 4+00 (CURBS)		12.11	0011	01
		1+50 TO 4+00 LT (CURBS)		9.26	0011	01
		RAMP B (PV-P4)				
		2+00 LT-RT DRAINAGE TRENCH		7.33	0011	01
		(PV-P4)				
		RAMP B (RHHRC)				
		1+67 TO 4+00 LT & RT (RHHRC)		34.53	0011	01
		RAMP C AND RAMP D (PV-P8)				
		MPT PLAN NO. 10 RAMP C AND		35.67	0011	01
		RAMP D CROSSOVER (PV-P8)				
		RAMP D (CURBS)				
		0+00 TO 10+50 (CURBS)		38.89	0011	01
		1+10 TO 10+00 LT (CURBS)		32.97	0011	01
		RAMP D (PV-P4)				
		2+00 LT-RT DRAINAGE TRENCH		4.00	0011	01
		(PV-P4)				
		RAMP D (RHHRC)				
		0+00 TO 4+00 RT (RHHRC)		29.64	0011	01
		1+28 TO 4+00 LT (RHHRC)		20.15	0011	01
		8+50 TO 10+00 LT (RHHRC)		11.12	0011	01
		8+50 TO 10+00 RT (RHHRC)		11.12	0011	01
		RAMP E (CURBS)				
		7+75 TO 9+25 (CURBS)		5.55	0011	01
		7+75 TO 9+25 LT (CURBS)		5.55	0011	01
		9+60 TO 10+10 LT (CURBS)		1.85	0011	01
		RAMP E (PV-P4)				
		10+22 LT-RT DRAINAGE TRENCH		3.67	0011	01

Distribution of Quantities

Project Name - Bridge Group 54A -Kingston Rd Bridge
 Estimate Name - Bridge Group 54A - I-95 Kingston Rd - Addendum 2
 R.I. Contract No. - 2018-CB-022
 FAP Nos: BRO-0403(030)

Item No.	Item Code	Description	UM	Qty.	Pay Code	Seq. No.
046	302.0100	Cont.				
		(PV-P4)				
		RAMP E (PV-P7)				
		PLAN NO. 1 (PV-P7)		129.33	0011	01

Distribution of Quantities

Project Name - Bridge Group 54A -Kingston Rd Bridge
 Estimate Name - Bridge Group 54A - I-95 Kingston Rd - Addendum 2
 R.I. Contract No. - 2018-CB-022
 FAP Nos: BRO-0403(030)

Item No.	Item Code	Description	UM	Qty.	Pay Code	Seq. No.
046	302.0100	Cont.				
		PLAN NO. 4 (PV-P7)		30.00	0011	01
		RAMP E (RHHRC)				
		7+75 TO 9+25 LT & RT (RHHRC)		22.23	0011	01
		RAMP F (BITDW)				
		2+50 TO 4+00 LT (MEDIAN)		14.89	0011	01
		(BITDW)				
		RAMP F (CURBS)				
		1+00 TO 3+75 (CURBS)		10.19	0011	01
		1+35 TO 3+75 LT (CURBS)		8.89	0011	01
		8+00 TO 8+50 LT (CURBS)		1.85	0011	01
		8+00 TO 8+60 (CURBS)		2.22	0011	01
		RAMP F (PV-P4)				
		1+50 LT-RT DRAINAGE TRENCH		4.00	0011	01
		(PV-P4)				
		RAMP F (RHHRC)				
		1+55 TO 3+75 LT & RT (RHHRC)		32.60	0011	01
		8+00 TO 8+30 (RHHRC)		2.22	0011	01
		RAMP G AND RAMP H (PV-P8)				
		MPT PLAN NO. 8 RAMP G AND		24.33	0011	01
		RAMP H CROSSOVER (PV-P8)				
		RAMP H (CURBS)				
		0+06 TO 11+50 (CURBS)		42.37	0011	01
		1+00 TO 11+50 LT (CURBS)		38.89	0011	01
		RAMP H (PV-P4)				
		4+77 LT-RT DRAINAGE TRENCH		4.00	0011	01
		(PV-P4)				
		RAMP H (RHHRC)				
		1+28 TO 3+75 LT & RT (RHHRC)		36.60	0011	01
		5+75 TO 11+45 LT & RT (RHHRC)		84.47	0011	01
Item 302.0100 Total:				9,499.00		

047 401.1010 CLASS 19.0 HMA WITH PAY ADJUSTMENTS TON
 I-95 (PV-P2)

Distribution of Quantities

Project Name - Bridge Group 54A -Kingston Rd Bridge
 Estimate Name - Bridge Group 54A - I-95 Kingston Rd - Addendum 2
 R.I. Contract No. - 2018-CB-022
 FAP Nos: BRO-0403(030)

Item No.	Item Code	Description	UM	Qty.	Pay Code	Seq. No.
047	401.1010	Cont.				
		839+75 TO 861+00 NB (PV-P2)		1,384.16	0011	01
		865+00 TO 869+00 NB (PV-P2)		260.86	0011	01
		867+25 TO 869+00 SB (PV-P2)		114.31	0011	01

Distribution of Quantities

Project Name - Bridge Group 54A -Kingston Rd Bridge
 Estimate Name - Bridge Group 54A - I-95 Kingston Rd - Addendum 2
 R.I. Contract No. - 2018-CB-022
 FAP Nos: BRO-0403(030)

Item No.	Item Code	Description	UM	Qty.	Pay Code	Seq. No.
048	401.2100 Cont.	316+05 LT-RT DRAINAGE TRENCH (PV-P4)		5.56	0011	01
		319+80 TO 321+00 RT (PV-P4)		8.66	0011	01
		QUANTITY				
		ROUNDING		0.42	0011	01
		RAMP A (PV-P7)				
		PLAN NO. 3 (PV-P7)		49.78	0011	01
		PLAN NO. 7 (PV-P7)		47.07	0011	01
		RAMP B (PV-P4)				
		2+00 LT-RT DRAINAGE TRENCH (PV-P4)		2.84	0011	01
		RAMP C AND RAMP D (PV-P8)				
		MPT PLAN NO. 10 RAMP C AND RAMP D CROSSOVER (PV-P8)		19.99	0011	01
		RAMP D (PV-P4)				
		2+00 LT-RT DRAINAGE TRENCH (PV-P4)		1.55	0011	01
		RAMP E (PV-P4)				
		10+22 LT-RT DRAINAGE TRENCH (PV-P4)		1.42	0011	01
		RAMP E (PV-P7)				
		PLAN NO. 1 (PV-P7)		50.17	0011	01
		PLAN NO. 4 (PV-P7)		11.64	0011	01
		RAMP F (PV-P4)				
		1+50 LT-RT DRAINAGE TRENCH (PV-P4)		1.55	0011	01
		RAMP G AND RAMP H (PV-P8)				
		MPT PLAN NO. 8 RAMP G AND RAMP H CROSSOVER (PV-P8)		13.63	0011	01
		RAMP H (PV-P4)				
		4+77 LT-RT DRAINAGE TRENCH (PV-P4)		1.55	0011	01
Item 401.2100 Total:				3,669.62		

Distribution of Quantities

Project Name - Bridge Group 54A -Kingston Rd Bridge
 Estimate Name - Bridge Group 54A - I-95 Kingston Rd - Addendum 2
 R.I. Contract No. - 2018-CB-022
 FAP Nos: BRO-0403(030)

Item No.	Item Code	Description	UM	Qty.	Pay Code	Seq. No.
049	401.3000	CLASS 9.5 HMA	TON			
		KINGSTOWN ROAD (BITDW)				
		320+35 RT (BITDW)		3.36	0011	01
		320+50 LT (BITDW)		7.47	0011	01
		QUANTITY				

Assembly Summary

Project Name:

Estimate Name:

R.I. Contract No.:

FAP Nos.:

Item Code	Description	Depth	Factor	Qty
<u>Assembly: PAVEMENT TYPE 'P-6' (PV-P6) (Unit: SY Default Quantity: 7865.00)</u>				
402.9901	FRICTION COURSE	1.5"	0.09516	
403.0300	ASPHALT EMULSION TACK COAT		1.00000	
931.0110	CLEANING AND SWEEPING PAVEMENT		0.01000	
935.0400	REMOVING BITUMINOUS PAVEMENT BY MICRO MILLING	1.5"	1.00000	
	RAMP E (PV-P6)			
	6+32 TO 7+75 (PV-P6)			381.00
	20+00 TO 26+32 (PV-P6)			1685.00
	RAMP F (PV-P6)			
	3+75 TO 8+40 (PV-P6)			1240.00
	RAMP H (PV-P6)			
	3+75 TO 5+75 (PV-P6)			533.00
	RAMP D (PV-P6)			
	4+00 TO 8+50 (PV-P6)			1200.00
	RAMP A (PV-P6)			
	9+10 TO 15+75 (PV-P6)			1773.00
	RAMP B (PV-P6)			
	4+00 TO 7+95 (PV-P6)			1053.00
<u>Assembly: PAVEMENT TYPE 'P-7' (PV-P7) (Unit: TON Default Quantity: 1227.00)</u>				
204.0100	TRIMMING AND FINE GRADING		1.00000	
302.0100	GRAVEL BORROW SUBBASE COURSE	12"	0.33333	
401.1010	CLASS 19.0 HMA WITH PAY ADJUSTMENTS	7"	0.43104	
401.2100	MODIFIED CLASS 12.5 HMA	2"	0.12931	
402.9901	FRICTION COURSE	1.5"	0.09516	
403.0300	ASPHALT EMULSION TACK COAT		2.00000	
	RAMP A (PV-P7)			
	PLAN NO. 7 (PV-P7)			364.00
	PLAN NO. 3 (PV-P7)			385.00
	RAMP E (PV-P7)			
	PLAN NO. 1 (PV-P7)			388.00
	PLAN NO. 4 (PV-P7)			90.00

Assembly Summary

Project Name:

Estimate Name:

R.I. Contract No.:

FAP Nos.:

Item Code	Description	Depth	Factor	Qty
<u>Assembly: PAVEMENT TYPE 'P-8' (PV-P8) (Unit: SY Default Quantity: 180.00)</u>				
302.0100	GRAVEL BORROW SUBBASE COURSE	12"	0.33333	
401.2100	MODIFIED CLASS 12.5 HMA	3"	0.18678	
	RAMP G AND RAMP H (PV-P8)			
	MPT PLAN NO. 8 RAMP G AND RAMP H CROSSOVER (PV-P8)			73.00
	RAMP C AND RAMP D (PV-P8)			
	MPT PLAN NO. 10 RAMP C AND RAMP D CROSSOVER (PV-P8)			107.00
<u>Assembly: REMOVE AND RESET CURB (RHHRC) (Unit: LF Default Quantity: 5887.00)</u>				
202.0100	EARTH EXCAVATION		0.08330	
204.0100	TRIMMING AND FINE GRADING		0.16660	
302.0100	GRAVEL BORROW SUBBASE COURSE		0.07410	
906.0700	REMOVE, HANDLE, HAUL TRIM RESET CURB EDGING, STRAIGHT, CIRCULAR ALL TYPES		1.00000	
	KINGSTOWN ROAD (RHHRC)			
	307+78 TO 309+10 RT (RHHRC)			132.00
	309+63 TO 310+03 LT (RHHRC)			40.00
	310+50 TO 314+04 RT (RHHRC)			354.00
	311+45 TO 314+78 LT (RHHRC)			333.00
	315+79 TO 316+34 RT (RHHRC)			55.00
	316+00 TO 317+93 LT (RHHRC)			193.00
	320+30 LT TO RAMP H STA 1+12 (RHHRC)			215.00
	317+14 TO 317+92 RT (RHHRC)			78.00
	319+02 TO 320+13 RT (RHHRC)			109.00
	320+60 TO 321+49 RT (RHHRC)			88.00
	320+73 TO 321+00 LT (RHHRC)			27.00
	306+20 TO 307+27 LT (RHHRC)			116.00
	306+40 TO 307+25 (RHHRC)			85.00
	RAMP D (RHHRC)			
	0+00 TO 4+00 RT (RHHRC)			400.00
	1+28 TO 4+00 LT (RHHRC)			272.00
	8+50 TO 10+00 LT (RHHRC)			150.00
	8+50 TO 10+00 RT (RHHRC)			150.00
	RAMP B (RHHRC)			
	1+67 TO 4+00 LT & RT (RHHRC)			466.00

Assembly Summary

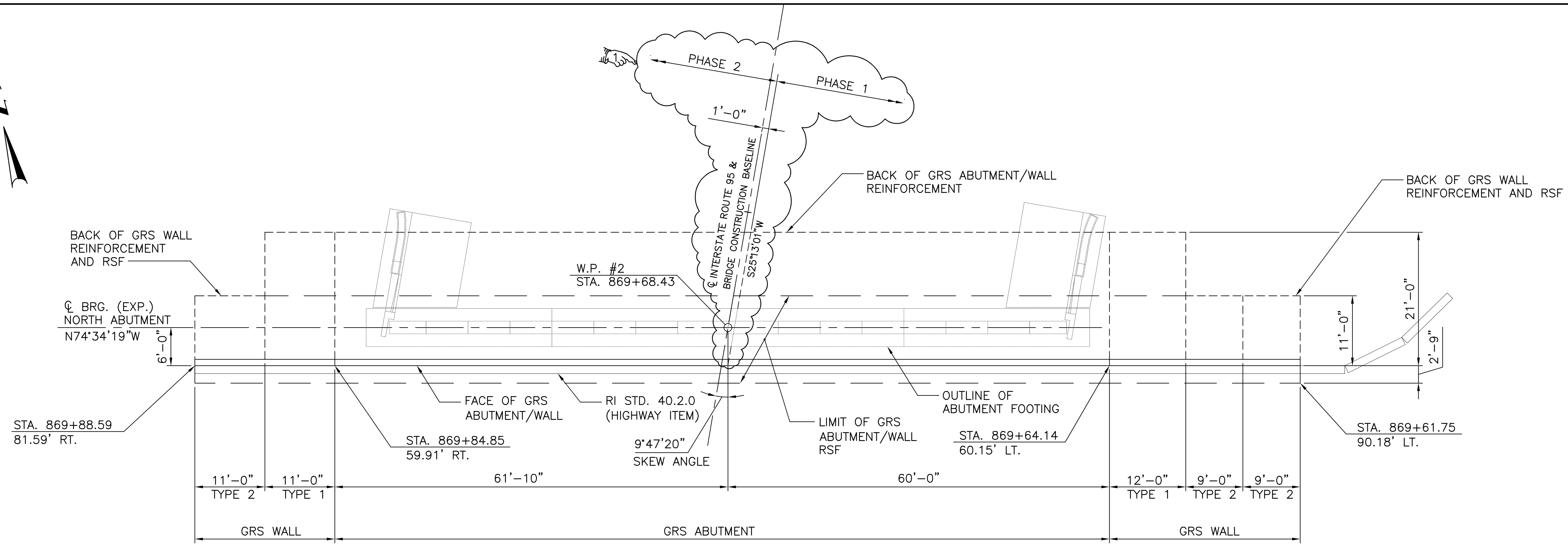
Project Name:

Estimate Name:

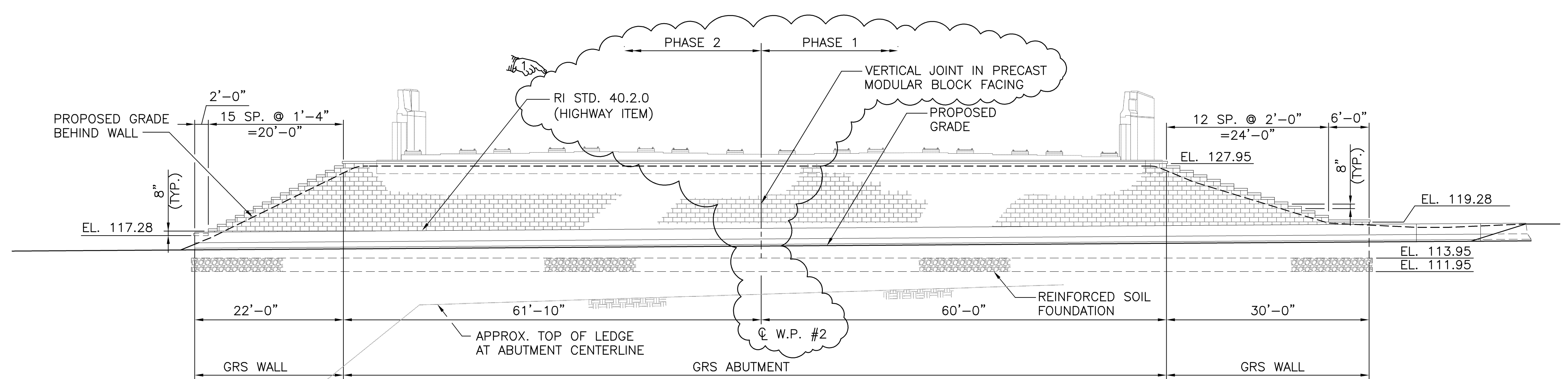
R.I. Contract No.:

FAP Nos.:

Item Code	Description	Depth	Factor	Qty
	RAMP A (RHHRC)			
	15+75 TO 6+84 LT & RT (RHHRC)			220.00
	RAMP F (RHHRC)			
	8+00 TO 8+30 (RHHRC)			30.00
	1+55 TO 3+75 LT & RT (RHHRC)			440.00
	RAMP H (RHHRC)			
	1+28 TO 3+75 LT & RT (RHHRC)			494.00
	5+75 TO 11+45 LT & RT (RHHRC)			1140.00
	RAMP E (RHHRC)			
	7+75 TO 9+25 LT & RT (RHHRC)			300.00



PLAN



ELEVATION

GRS WALL AT NORTH ABUTMENT

SCALE: 1"=10'-0"

NOTES:

- TOP OF GRS ABUTMENT/WALL ELEVATIONS ARE GIVEN TO TOP OF FINAL COURSE OF PRECAST MODULAR BLOCK (WITHOUT WALL CAP).
- STATION AND OFFSET DIMENSIONS LOCATING THE FACE OF GRS WALL/ABUTMENT ARE GIVEN AT THE TOP OF REINFORCED SOIL FOUNDATION.
- PRECAST MODULAR BLOCK UNITS ARE RUNNING BOND, INCLUDING CORNERS, SO THERE ARE NO VERTICAL JOINTS GREATER THAN ONE COURSE HEIGHT.
- REMOVE BACKFILL AND GEOSYNTHETIC REINFORCEMENT FROM HOLLOW PORTION OF PRECAST MODULAR BLOCK UNITS OF THE TOP 3 COURSES AND FROM CORNER UNITS; INSERT #4 BARS AND FILL WITH CONCRETE.
- STRIKE CONCRETE FILL FLUSH WITH TOP OF PRECAST MODULAR BLOCK FOR PROPER FIT OF PRECAST CONCRETE WALL CAP. ATTACH CAP UNITS WITH AN ADHESIVE RECOMMENDED BY THE MANUFACTURER.
- SPLAYED WALL SECTIONS ARE FOLDED OUT IN ELEVATION VIEW.
- CONSTRUCT WALLS NEAR VERTICAL WITH 1/8" SET BACK PER COURSE.

REVISIONS			NO.	DATE	BY	WK

**RHODE ISLAND
DEPARTMENT OF TRANSPORTATION**

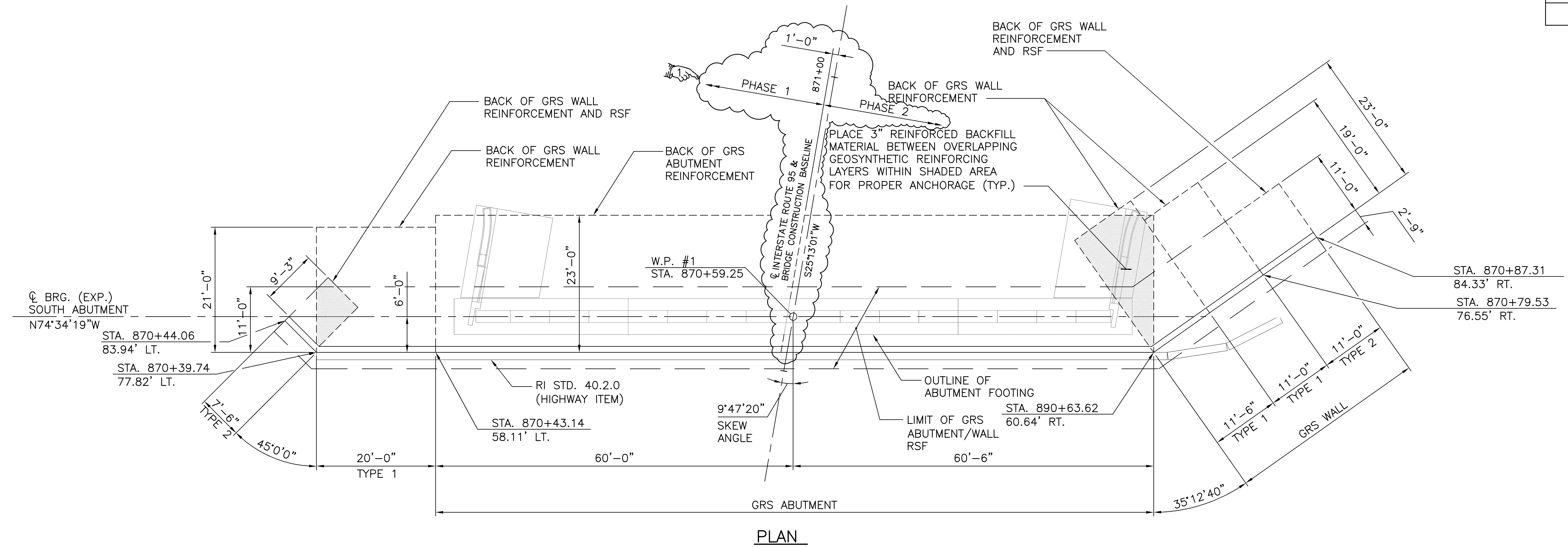
**BRIDGE REPLACEMENT
BRIDGE GROUP 54A -
I-95 KINGSTON ROAD**

RICHMOND, RHODE ISLAND
KINGSTON ROAD BRIDGE No. 403

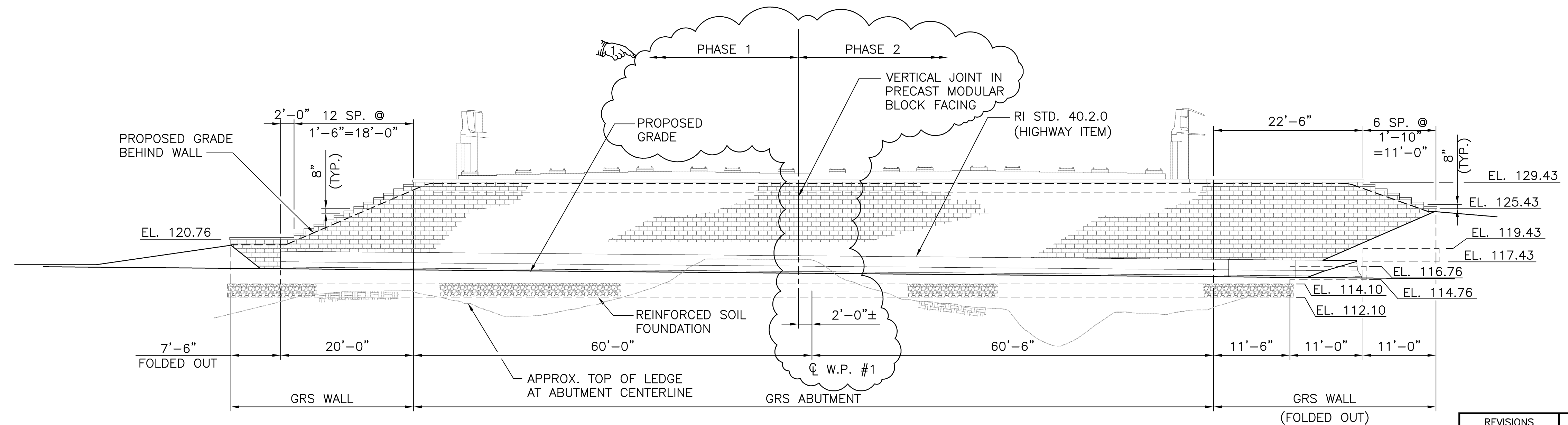
**GRS WALL AT
NORTH ABUTMENT**

CHECKED BY _____ DATE _____ SCALE AS SHOWN





PLAN



ELEVATION

GRS WALL AT SOUTH ABUTMENT

SCALE: 1"=10'-0"

NOTES:

FOR APPLICABLE NOTES, REFER TO "GRS WALL AT NORTH ABUTMENT" SHEET.

REVISIONS		
NO.	DATE	BY
1	5/1/19	WK

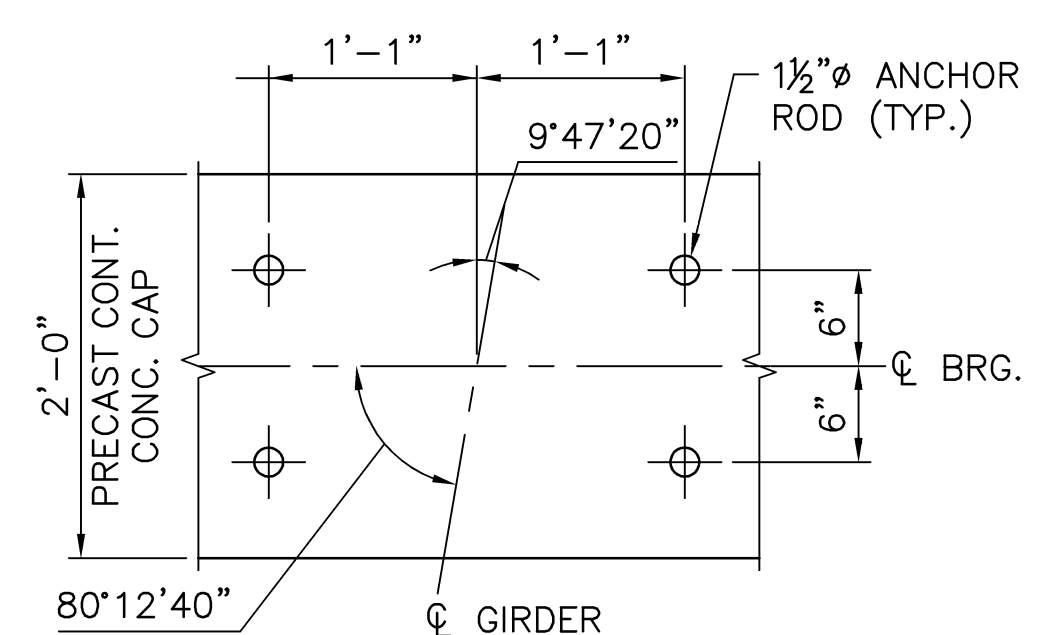
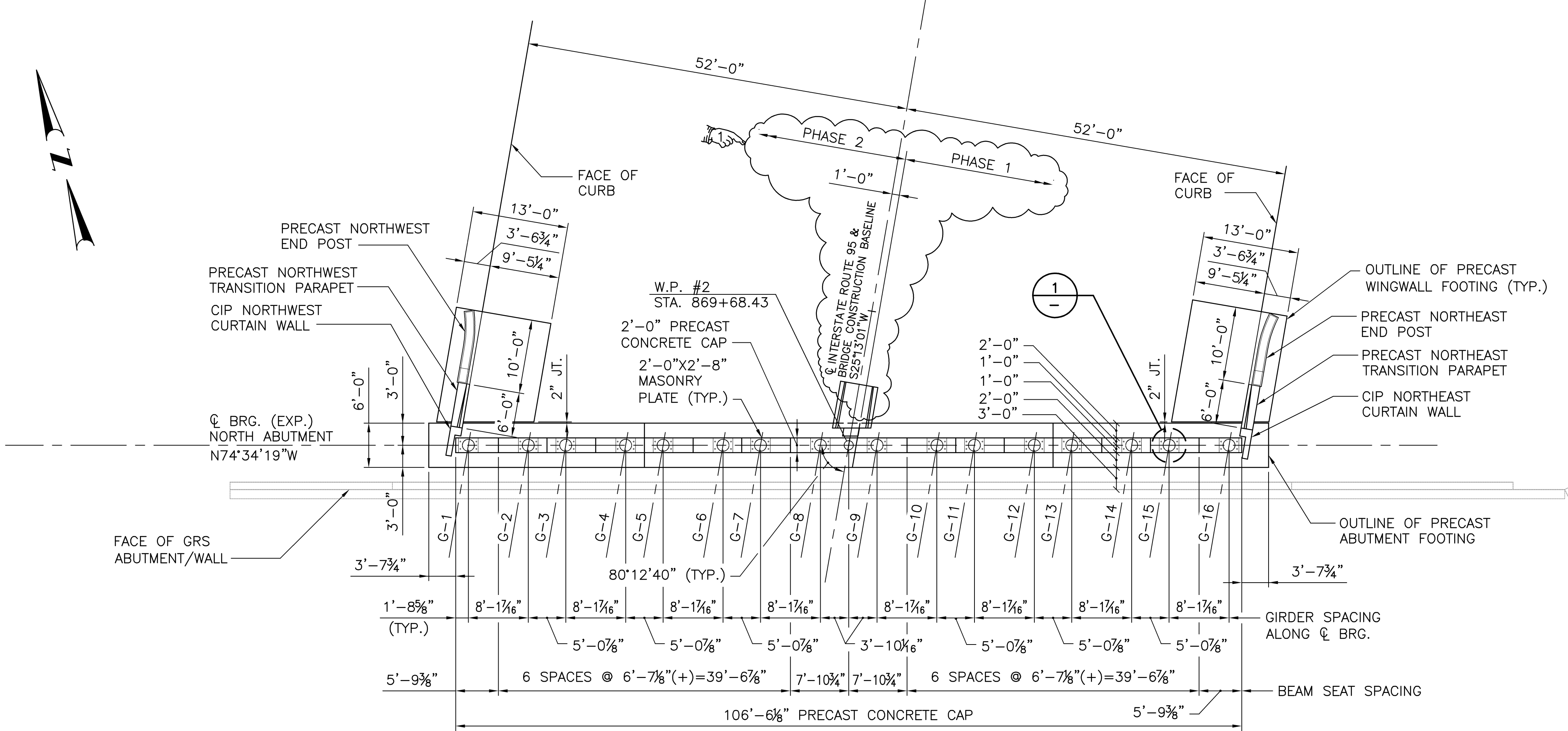
RHODE ISLAND
DEPARTMENT OF TRANSPORTATION

BRIDGE REPLACEMENT
BRIDGE GROUP 54A -
I-95 KINGSTON ROAD
RICHMOND, RHODE ISLAND

KINGSTON ROAD BRIDGE No. 403
GRS WALL AT
SOUTH ABUTMENT

CHECKED BY _____ DATE _____ SCALE AS SHOWN

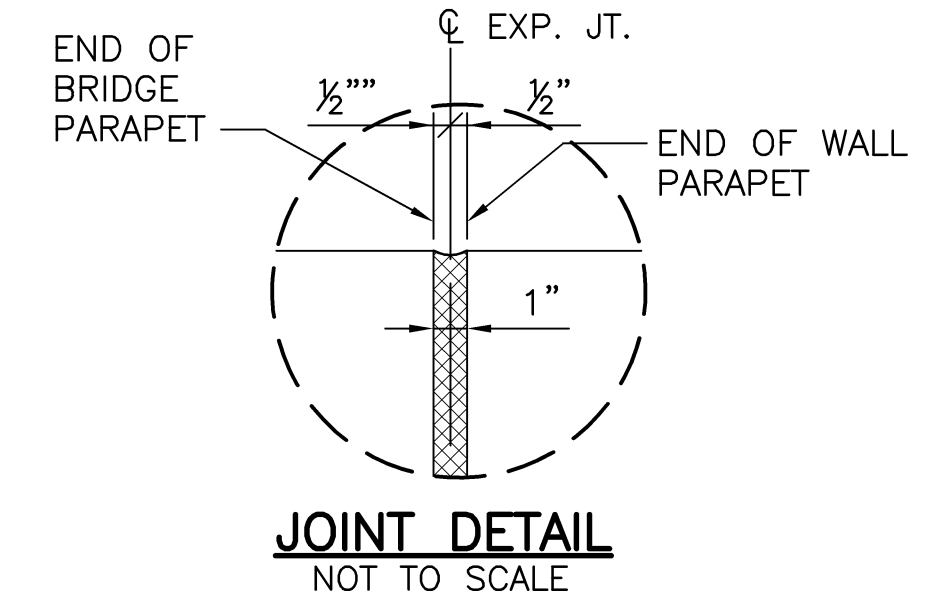
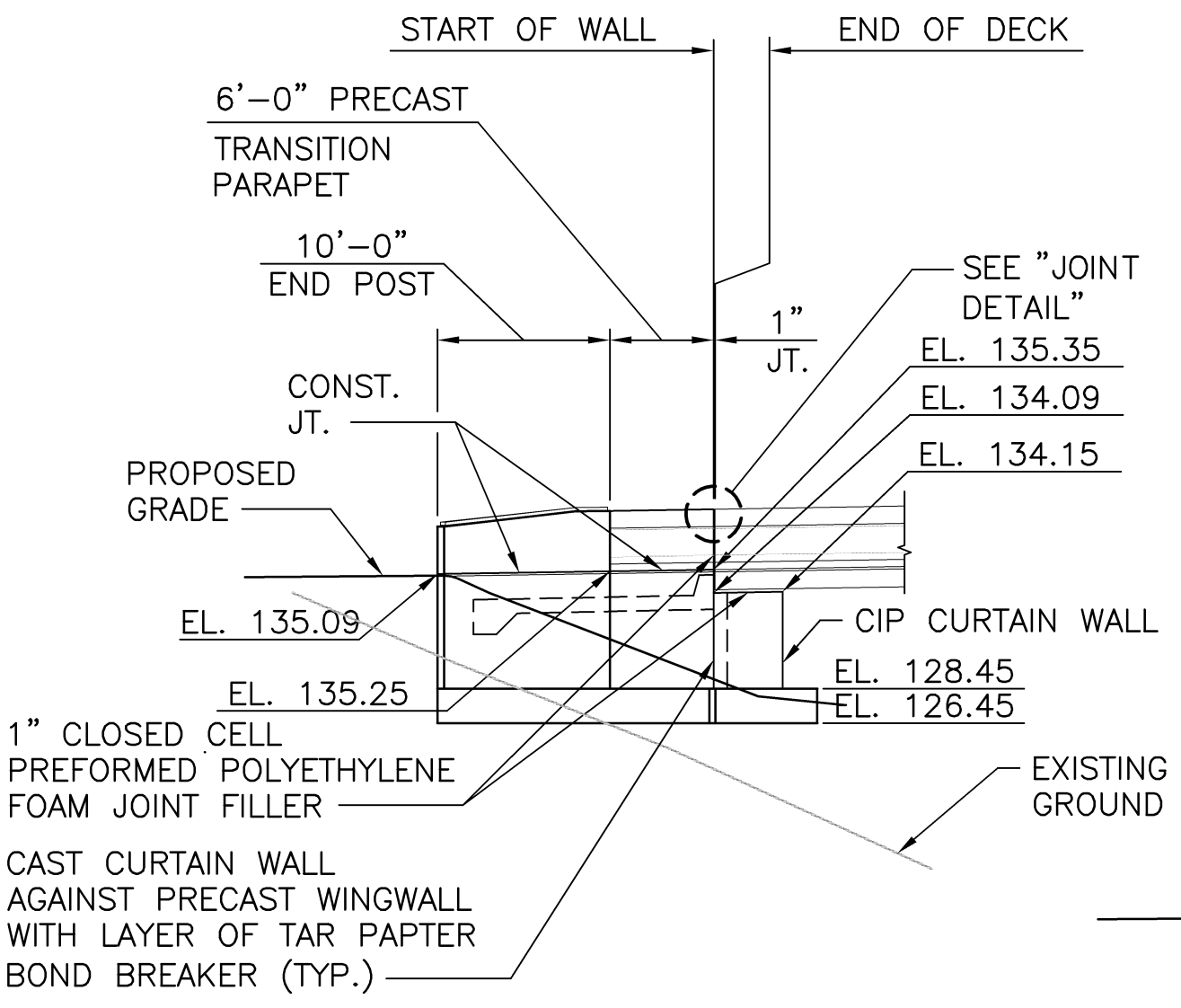
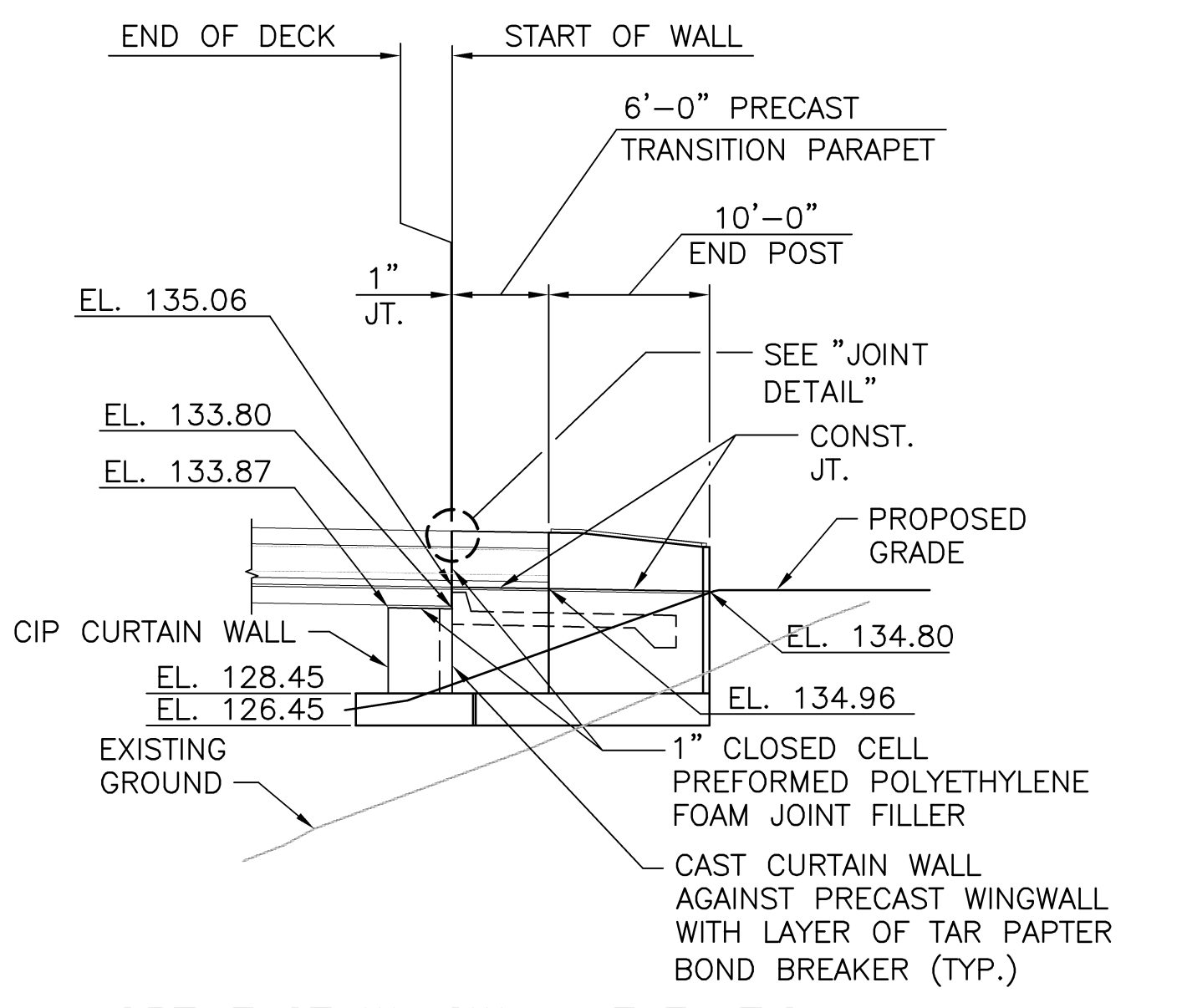
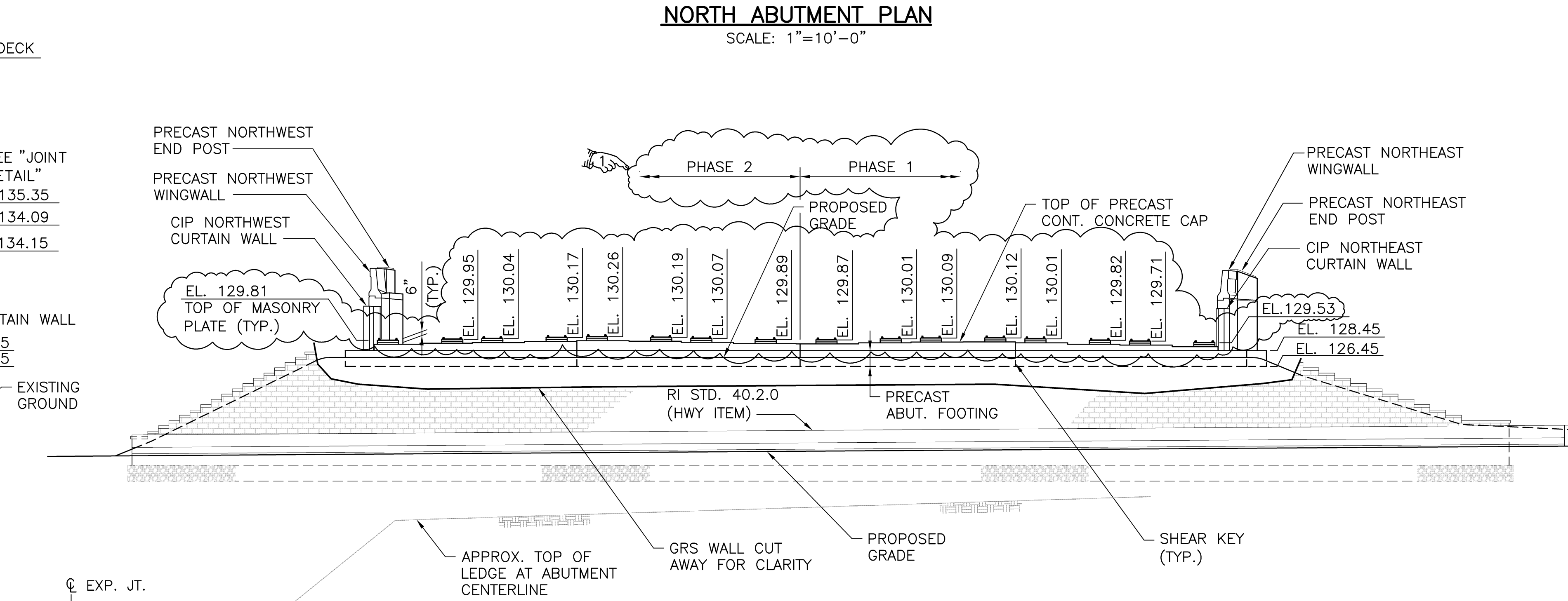




NOTE:
MASONRY PLATE NOT SHOWN FOR CLARITY

ANCHOR BOLT LAYOUT

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



NORTH ABUTMENT ELEVATION
SCALE: 1"=10'-0"

NORTHEAST WINGWALL ELEVATION
SCALE: 1"=10'-0"

NORTHWEST WINGWALL ELEVATION
SCALE: 1"=10'-0"

REVISIONS		
NO.	DATE	BY
1	5/1/19	WK

RHODE ISLAND
DEPARTMENT OF TRANSPORTATION

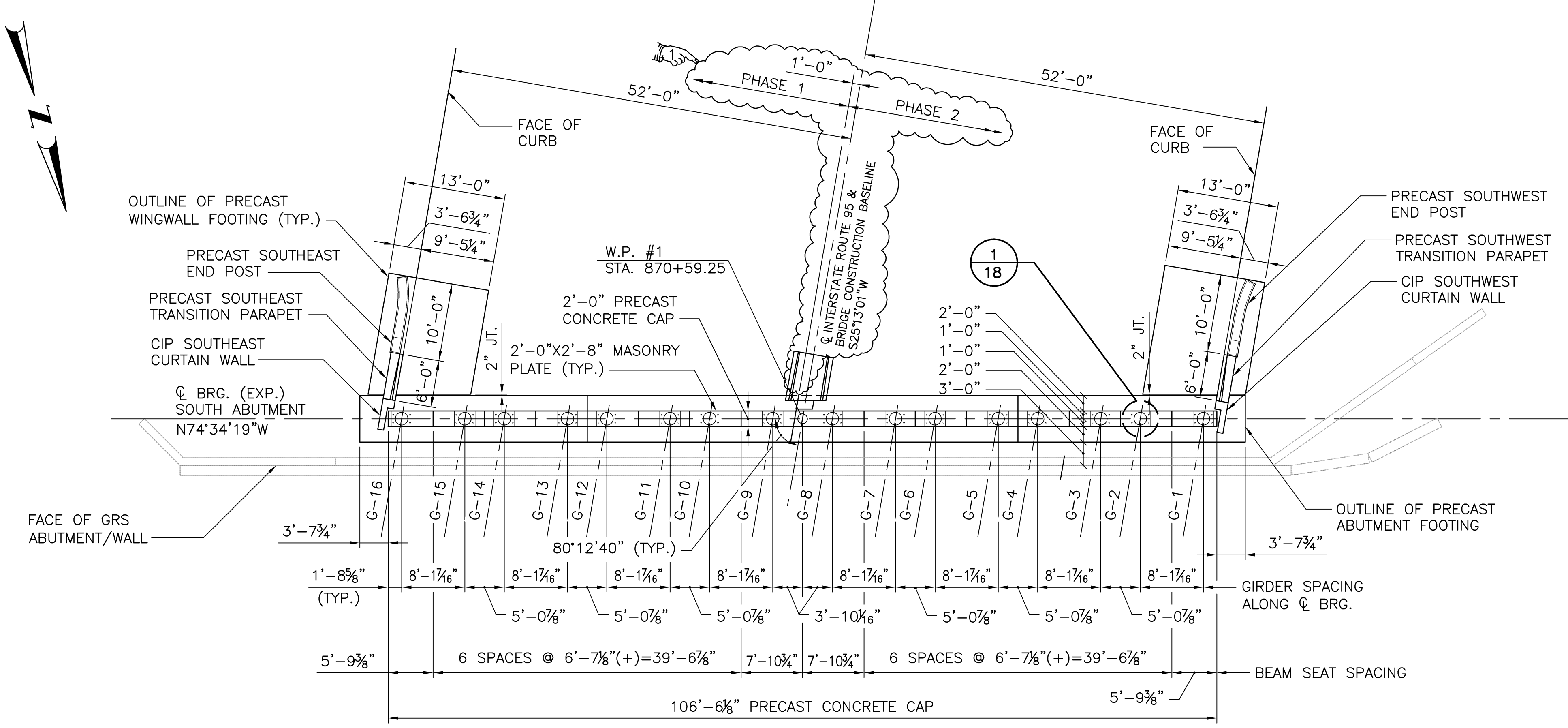
**BRIDGE REPLACEMENT
BRIDGE GROUP 54A -
I-95 KINGSTON ROAD**

RICHMOND, RHODE ISLAND
KINGSTON ROAD BRIDGE No. 403

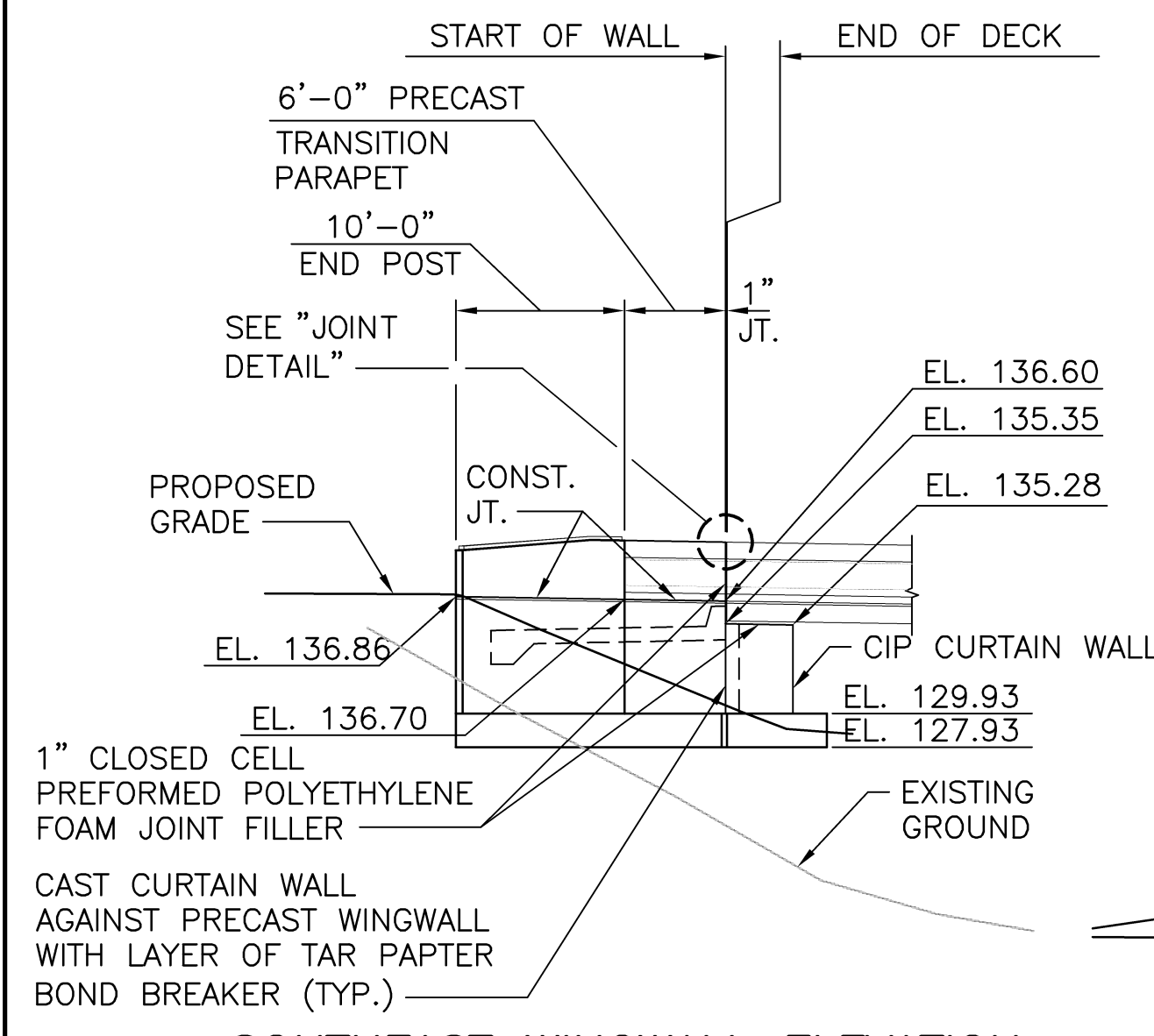
**NORTH ABUTMENT
PLAN AND ELEVATION**

CHECKED BY _____ DATE _____ SCALE AS SHOWN

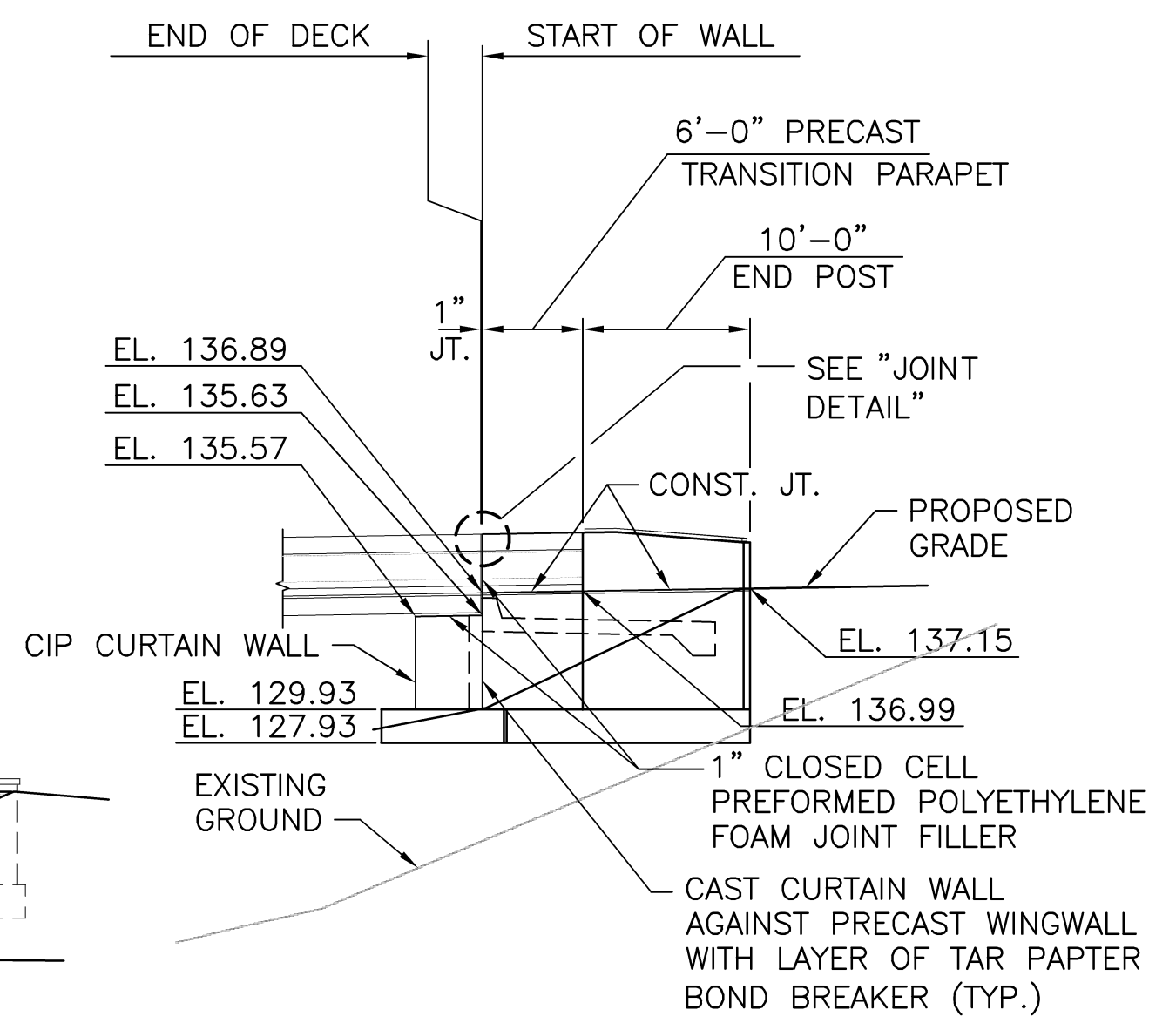




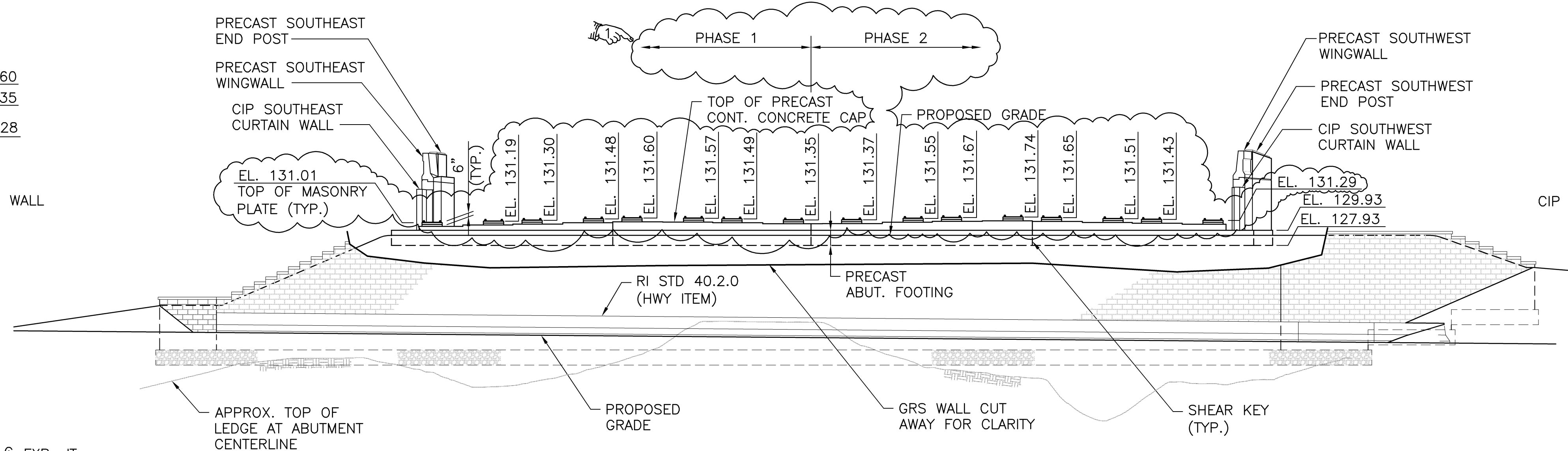
SOUTH ABUTMENT PLAN
SCALE: 1"=10'-0"



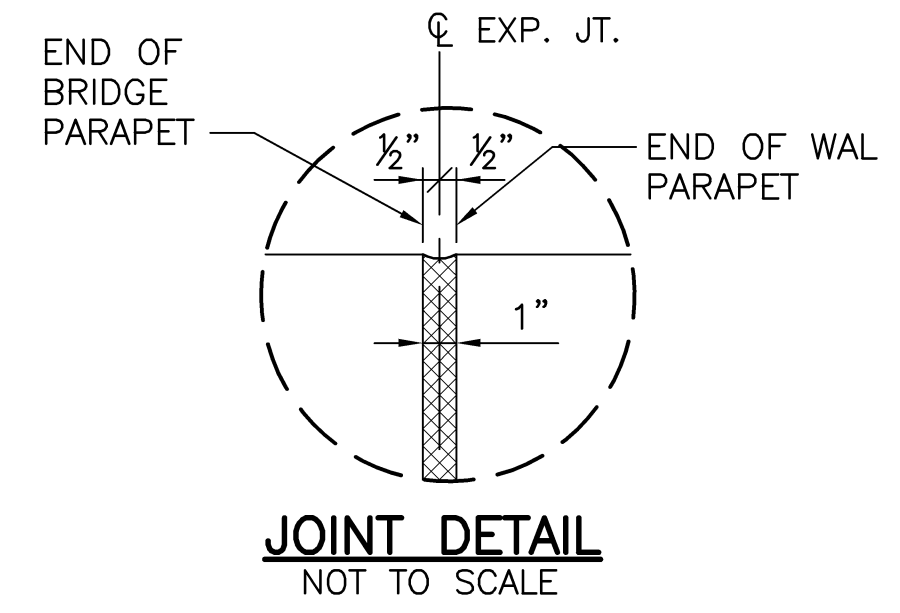
SOUTHEAST WINGWALL ELEVATION
SCALE: 1"=10'-0"



SOUTHWEST WINGWALL ELEVATION
SCALE: 1"=10'-0"



SOUTH ABUTMENT ELEVATION
SCALE: 1"=10'-0"



JOINT DETAIL
NOT TO SCALE

REVISIONS		
NO.	DATE	BY
1	5/1/19	WK

RHODE ISLAND
DEPARTMENT OF TRANSPORTATION

**BRIDGE REPLACEMENT
BRIDGE GROUP 54A -
I-95 KINGSTON ROAD**

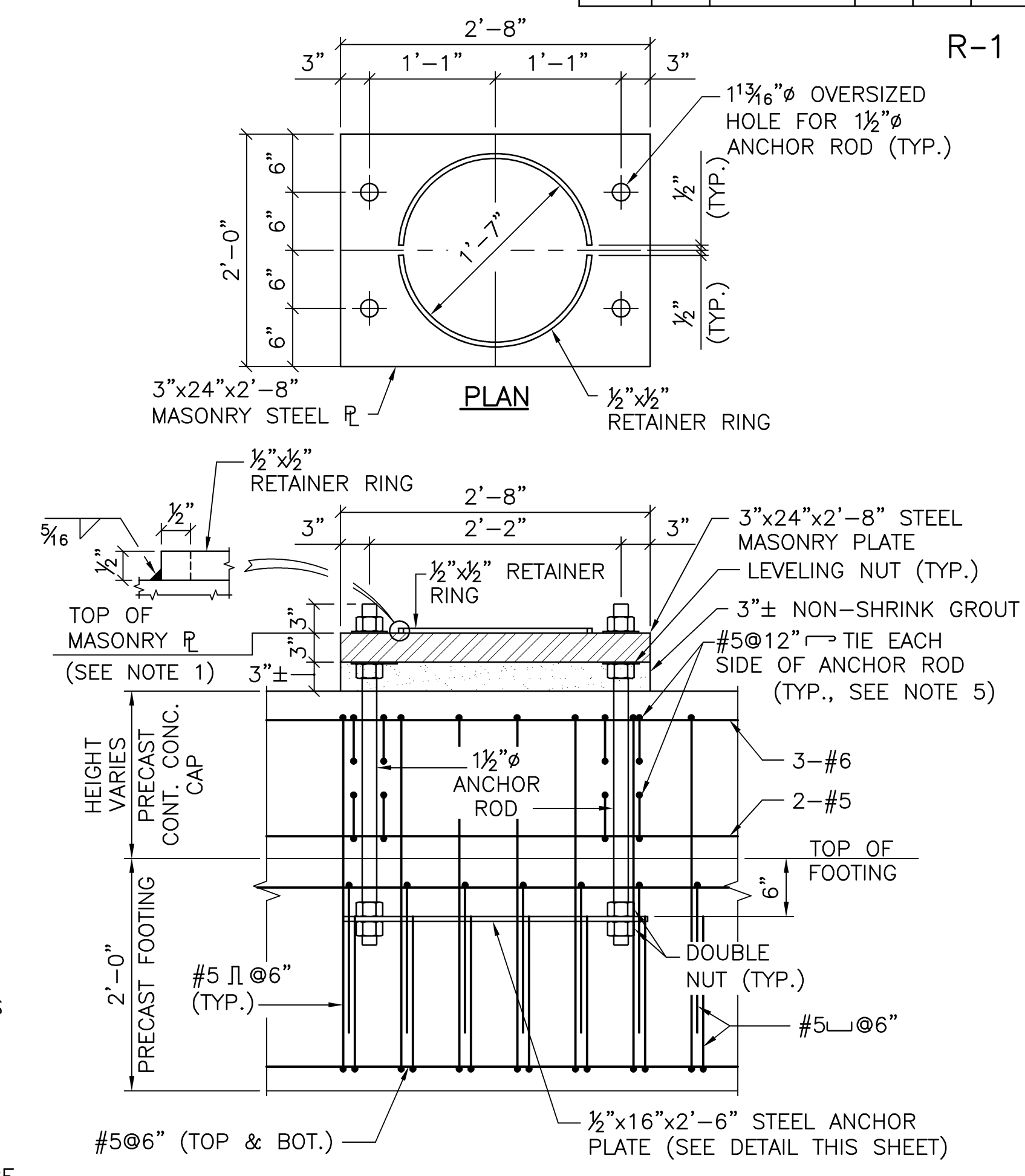
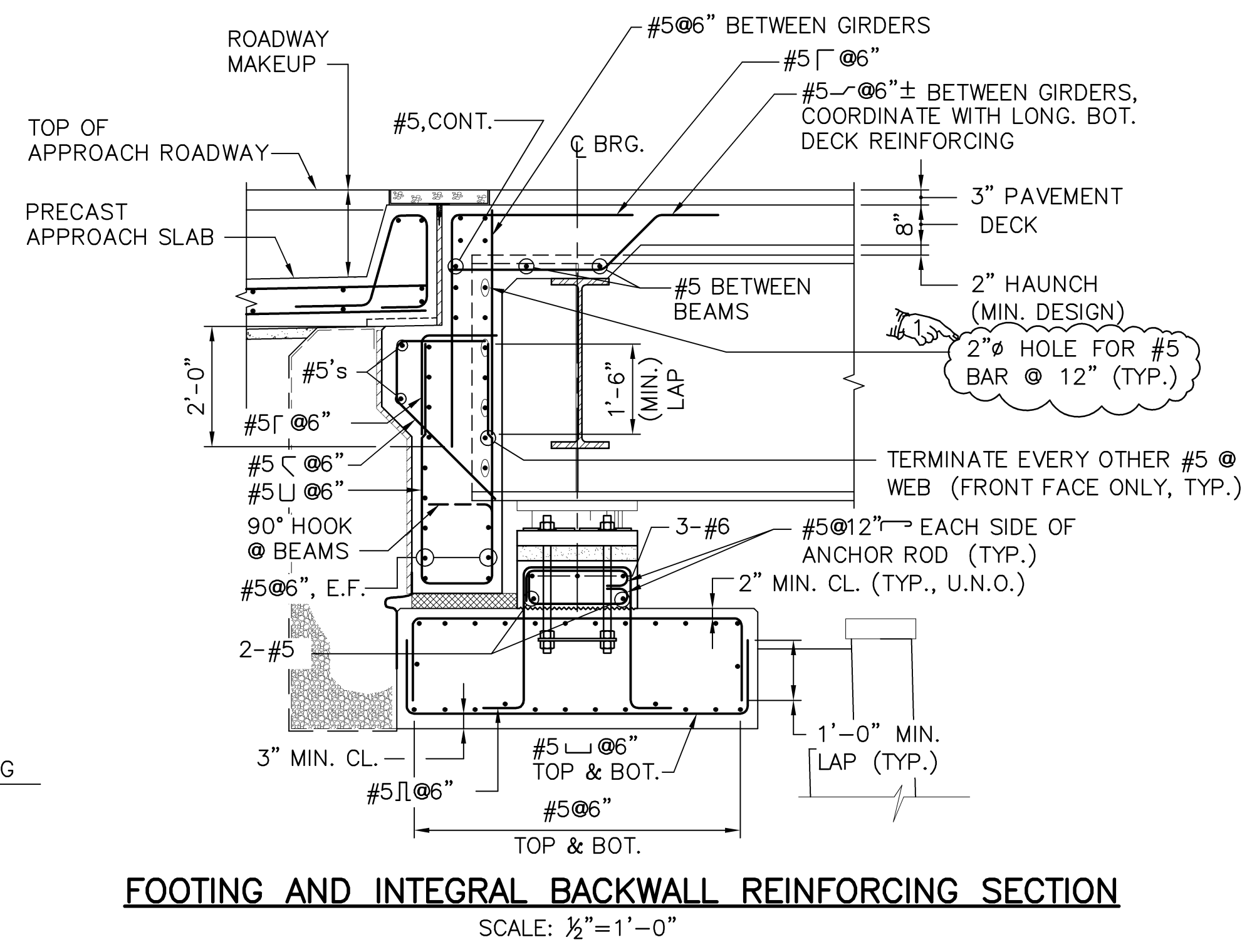
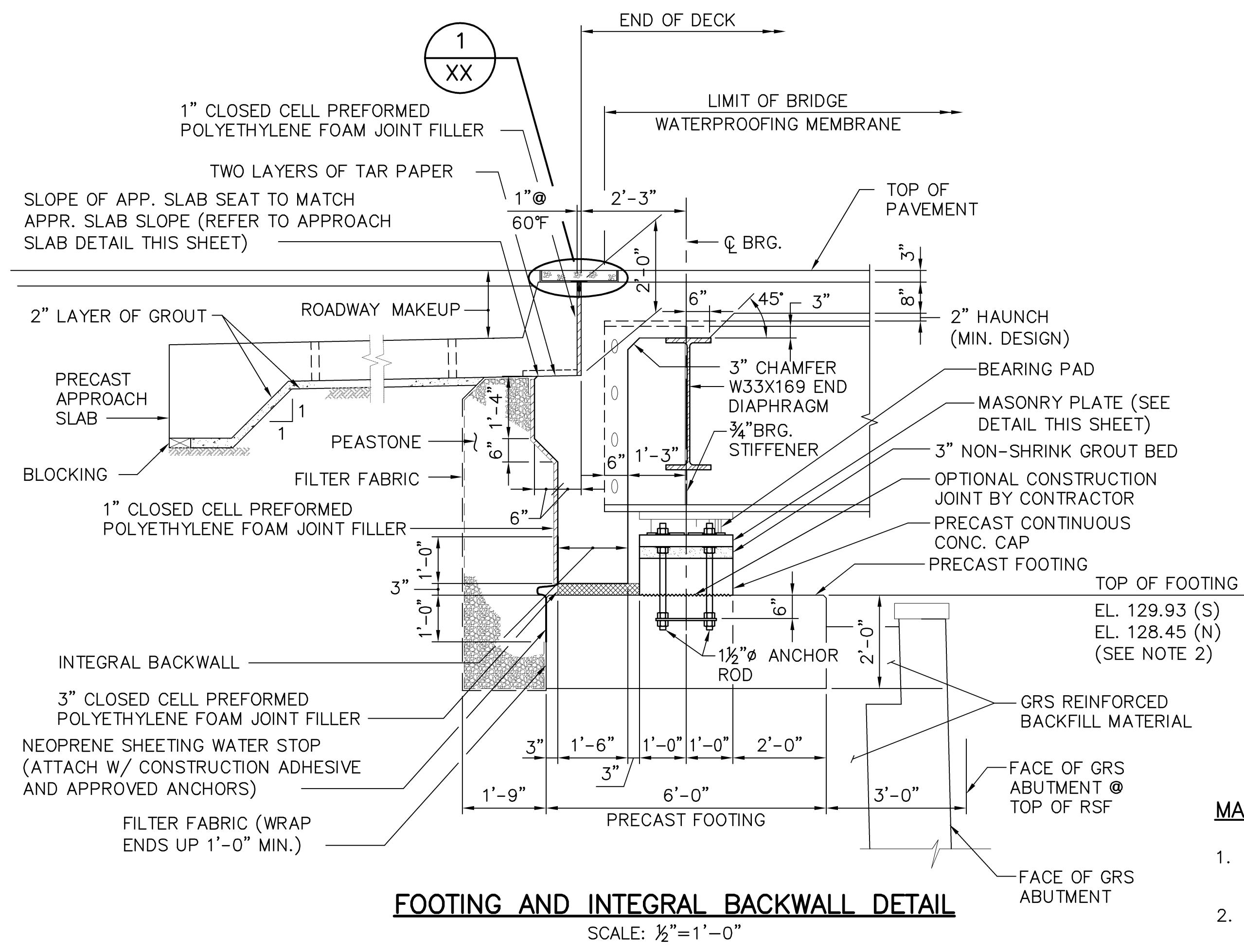
RICHMOND, RHODE ISLAND

KINGSTON ROAD BRIDGE No. 403

**SOUTH ABUTMENT
PLAN AND ELEVATION**

CHECKED BY _____ DATE _____ SCALE AS SHOWN



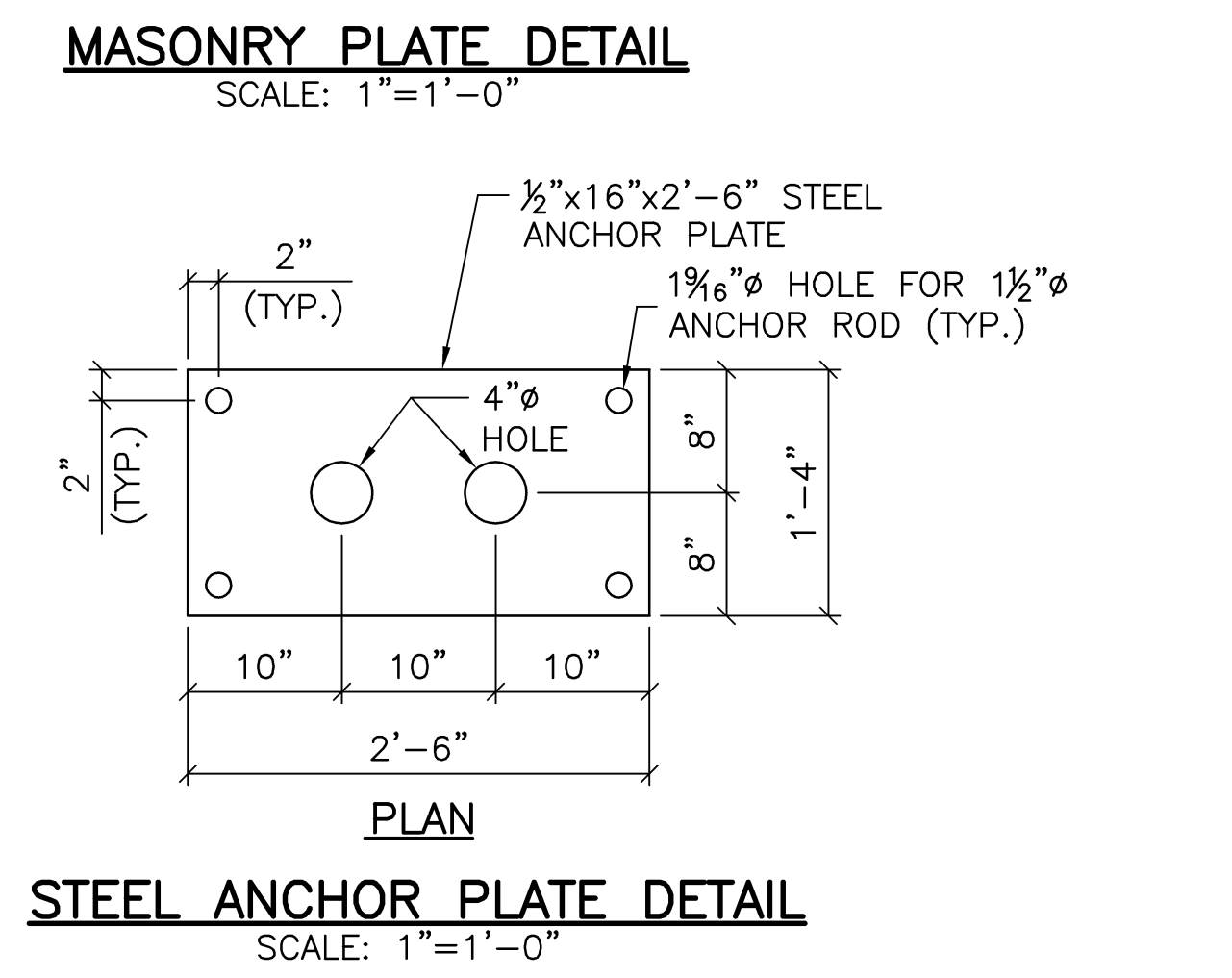
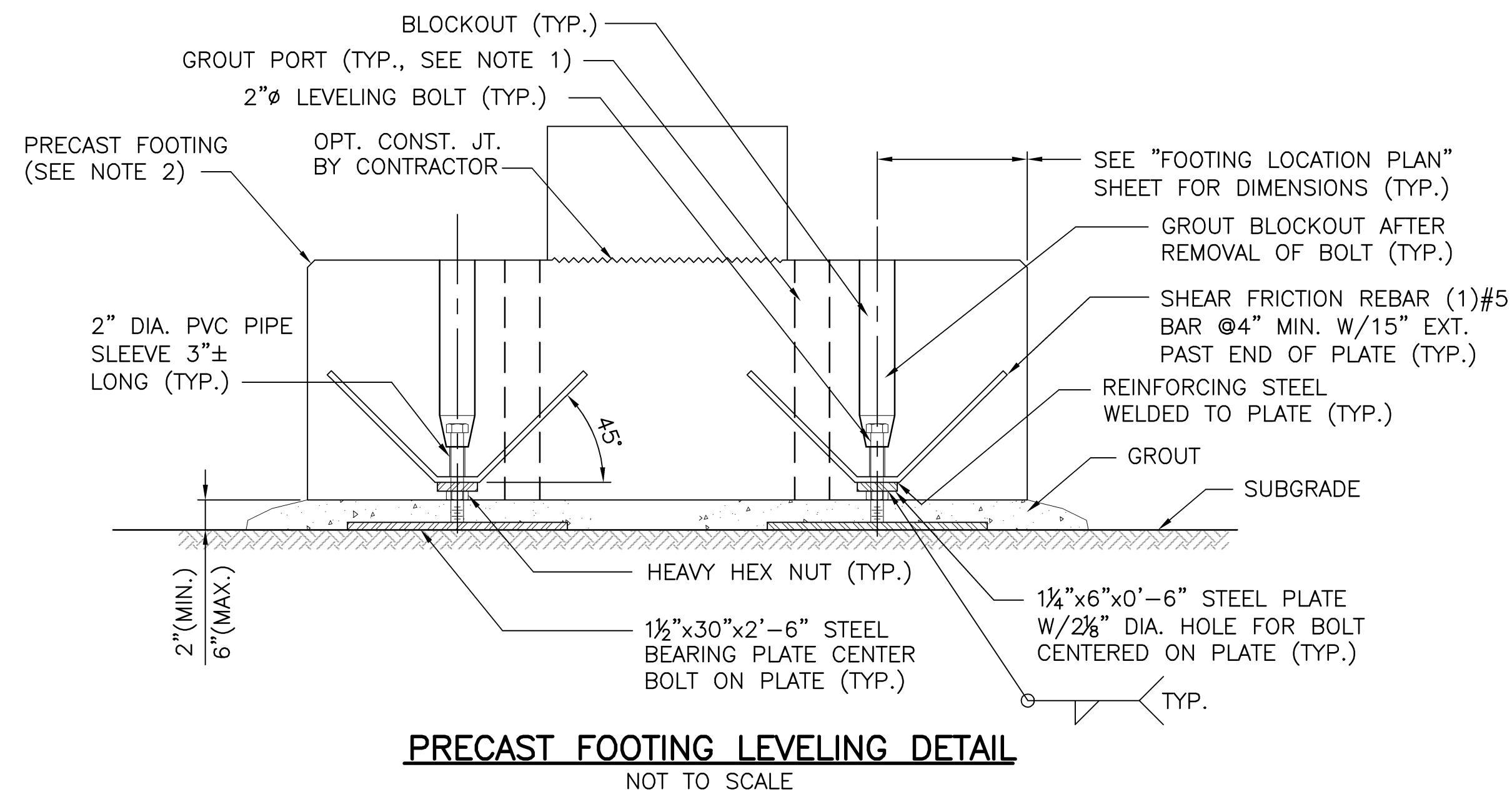


MASONRY PLATE NOTES:

- ERECTION TOLERANCE ON ELEVATION $\pm 1/8"$. THIS SHALL BE SPECIFIED AND DETAILED ON THE CONTRACTOR'S ASSEMBLY PLAN.
- PRIOR TO OPENING BRIDGE TO TRAFFIC, GROUT SHALL BE PLACED AND SHALL ACHIEVE A MINIMUM COMPRESSIVE STRENGTH OF 1500 P.S.I. AS DETERMINED THROUGH STRENGTH TESTING. THE TIMING OF SUBSEQUENT CONSTRUCTION STEPS SHALL BE SPECIFIED IN THE BRIDGE ASSEMBLY PLAN.
- CONTRACTOR TO DESIGN FORM TO RETAIN GROUT FLUSH ON ALL FACES OF MASONRY PLATE. GROUT TO BE FLOWED INTO PLACE AFTER LEVELING.
- TIES SHALL HAVE A HOOK OF NOT LESS THAN 135° WITH AN EXTENSION OF NOT LESS THAN 3 INCHES AT ONE END AND A HOOK OF NOT LESS THAN 90° WITH AN EXTENSION OF NOT LESS THAN 3 INCHES AT THE OTHER END. THE HOOKS SHALL ENGAGE PERIPHERAL LONGITUDINAL BARS AT EACH ANCHOR BOLT. THE 90° HOOKS OF TWO ADJACENT TIES ENGAGING THE SAME LONGITUDINAL BARS SHALL BE ALTERNATED END FOR END.
- STEEL PLATES ARE ASTM A709 GR50; ANCHOR RODS ARE ASTM F1554 GRADE 105. STEEL PLATES TO BE GALVANIZED ACCORDING TO ASTM A123 AND BOLTS TO BE GALVANIZED ACCORDING TO ASTM A153.

PRECAST FOOTING NOTES:

- CONTRACTOR TO DETERMINE SIZE AND SPACING OF PORTS BASED ON GROUT MIX AND FOOTING SIZE.
- ERECTION TOLERANCE ON ELEVATION $\pm 1/4"$. THIS SHALL BE SPECIFIED AND DETAILED ON THE CONTRACTOR'S ASSEMBLY PLAN.
- REINFORCEMENT HAS NOT BEEN SHOWN FOR CLARITY.
- PRECAST FOOTINGS HAVE BEEN DESIGNED TO CARRY FOOTING SELFWEIGHT ONLY WHILE BEING SUPPORTED ON AND SPANNING BETWEEN THE LEVELING DEVICES SHOWN ON THE CONTRACT DRAWINGS.
- THE CONTRACTOR SHALL ADJUST LEVELING DEVICES TO BEAR ON THE PREPARED SUBGRADE TO PROVIDE THE SUPPORT AND SPAN CONFIGURATIONS INDICATED PRIOR TO FULL RELEASE OF THE CRANE.
- ALTERNATE LEVELING DEVICES MAY BE SUBSTITUTED BY THE CONTRACTOR FOR APPROVAL BY THE ENGINEER.
- STEEL PLATES ARE ASTM A36; BOLTS ARE ASTM A325 (UNCOATED). STEEL PLATES TO BE GALVANIZED ACCORDING TO ASTM A123.
- REINFORCEMENT BARS ARE WELDABLE ASTM A706.
- GREASE OR OIL NUT & BOLT THREADS TO FACILITATE LEVELING AND REMOVAL.
- BOLT SHALL BE REMOVED AFTER THE GROUT HAS SET.
- ERECTION OF SUPERSTRUCTURE SHALL NOT COMMENCE UNTIL THE GROUT HAS ACHIEVED A MINIMUM COMPRESSIVE STRENGTH OF 1500 P.S.I. AS DETERMINED THROUGH STRENGTH TESTING. THE TIMING OF SUBSEQUENT CONSTRUCTION STEPS SHALL BE SPECIFIED IN THE BRIDGE ASSEMBLY PLAN.



REVISIONS		
NO.	DATE	BY
1	5/1/19	WK

RHODE ISLAND
DEPARTMENT OF TRANSPORTATION

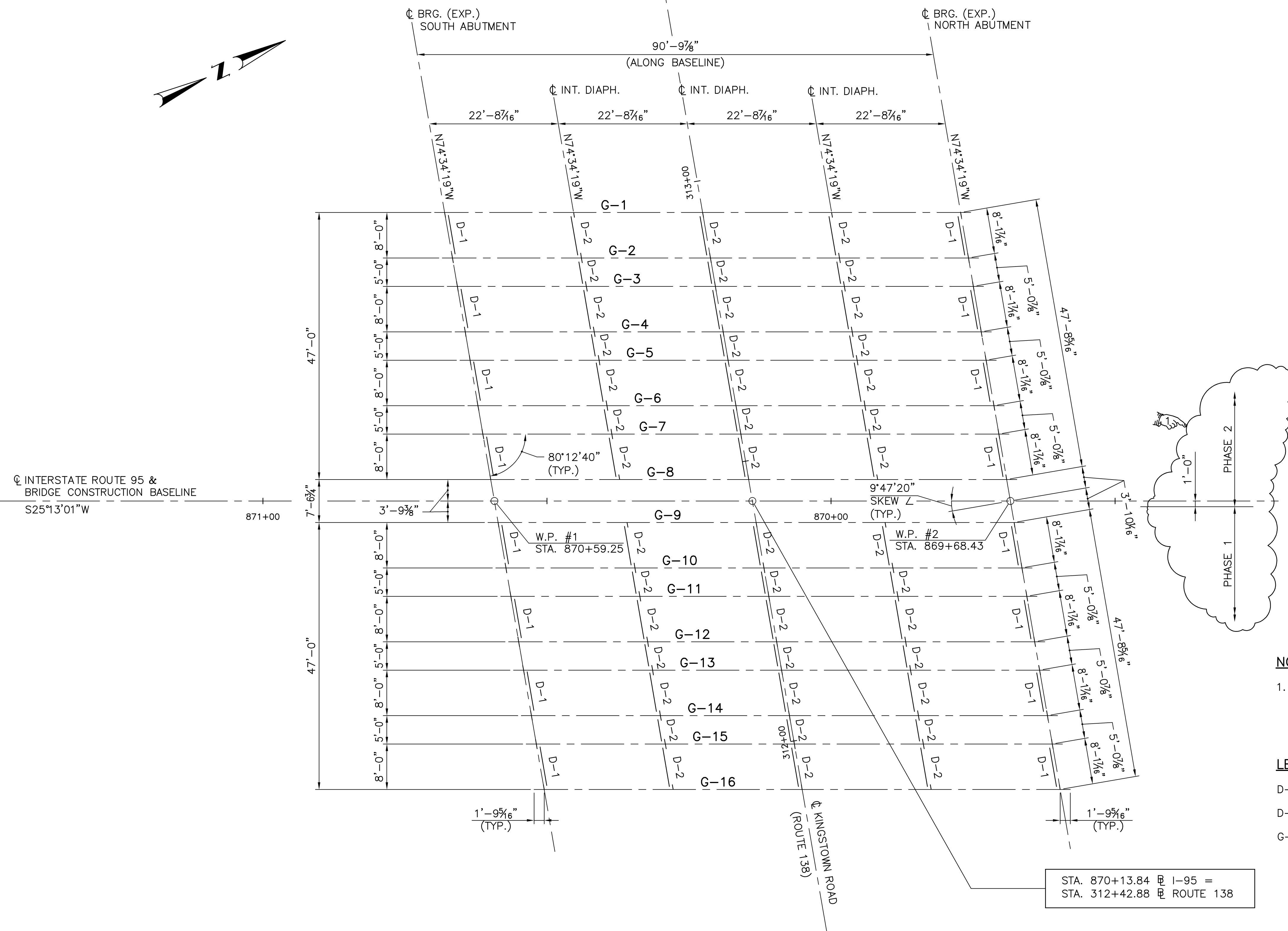
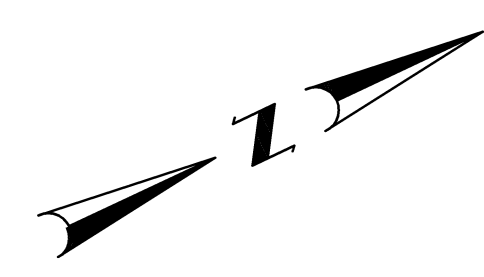
BRIDGE REPLACEMENT
BRIDGE GROUP 54A -
I-95 KINGSTON ROAD

RICHMOND, RHODE ISLAND
KINGSTON ROAD BRIDGE No. 403

TYPICAL ABUTMENT SECTIONS
AND DETAILS SHEET 1

CHECKED BY _____ DATE _____ SCALE AS SHOWN





NOTES:
 1. ALL STRUCTURAL STEEL PLATES AND SHAPES SHALL CONFORM TO AASHTO M270 GRADE 50W.

LEGEND:
 D-1 = TYPICAL END DIAPHRAGM
 D-2 = TYPICAL INTERMEDIATE DIAPHRAGM
 G-1 = GIRDER NUMBER DESIGNATION

STA. 870+13.84 @ I-95 =
 STA. 312+42.88 @ ROUTE 138

FRAMING PLAN
 SCALE: 1"=10'

REVISIONS		
NO.	DATE	BY
1	5/1/19	WK

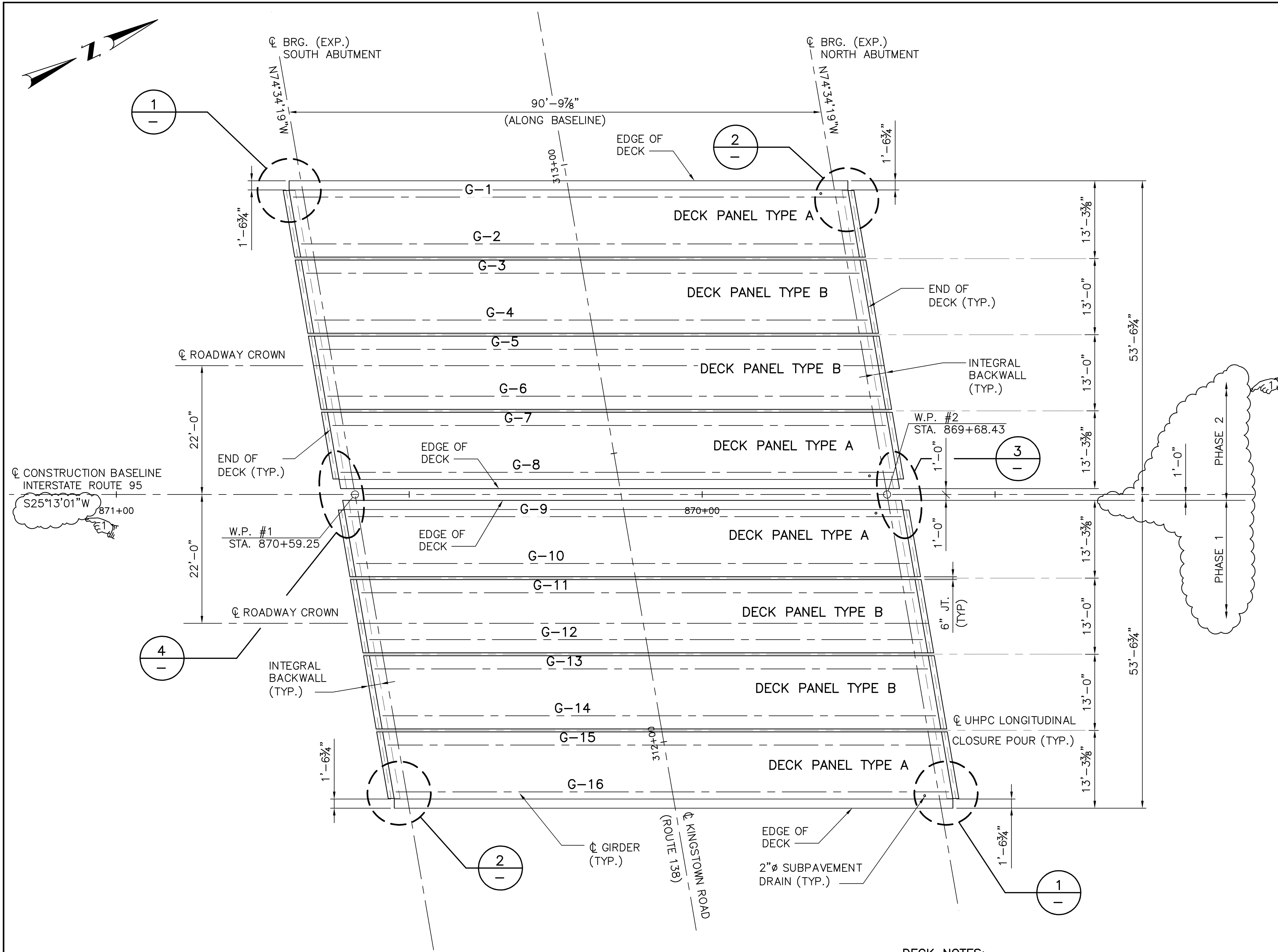
RHODE ISLAND
DEPARTMENT OF TRANSPORTATION

BRIDGE REPLACEMENT
BRIDGE GROUP 54A -
I-95 KINGSTON ROAD
 RICHMOND, RHODE ISLAND
 KINGSTON ROAD BRIDGE No. 403

FRAMING PLAN

CHECKED BY _____ DATE _____ SCALE AS SHOWN

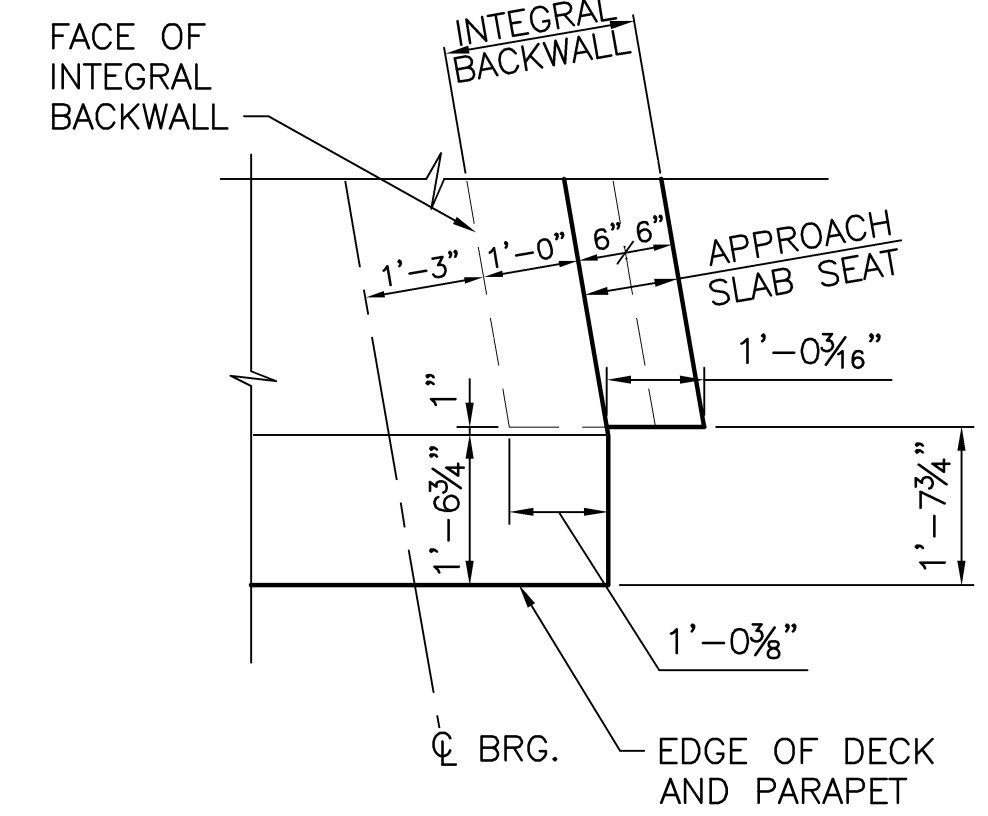




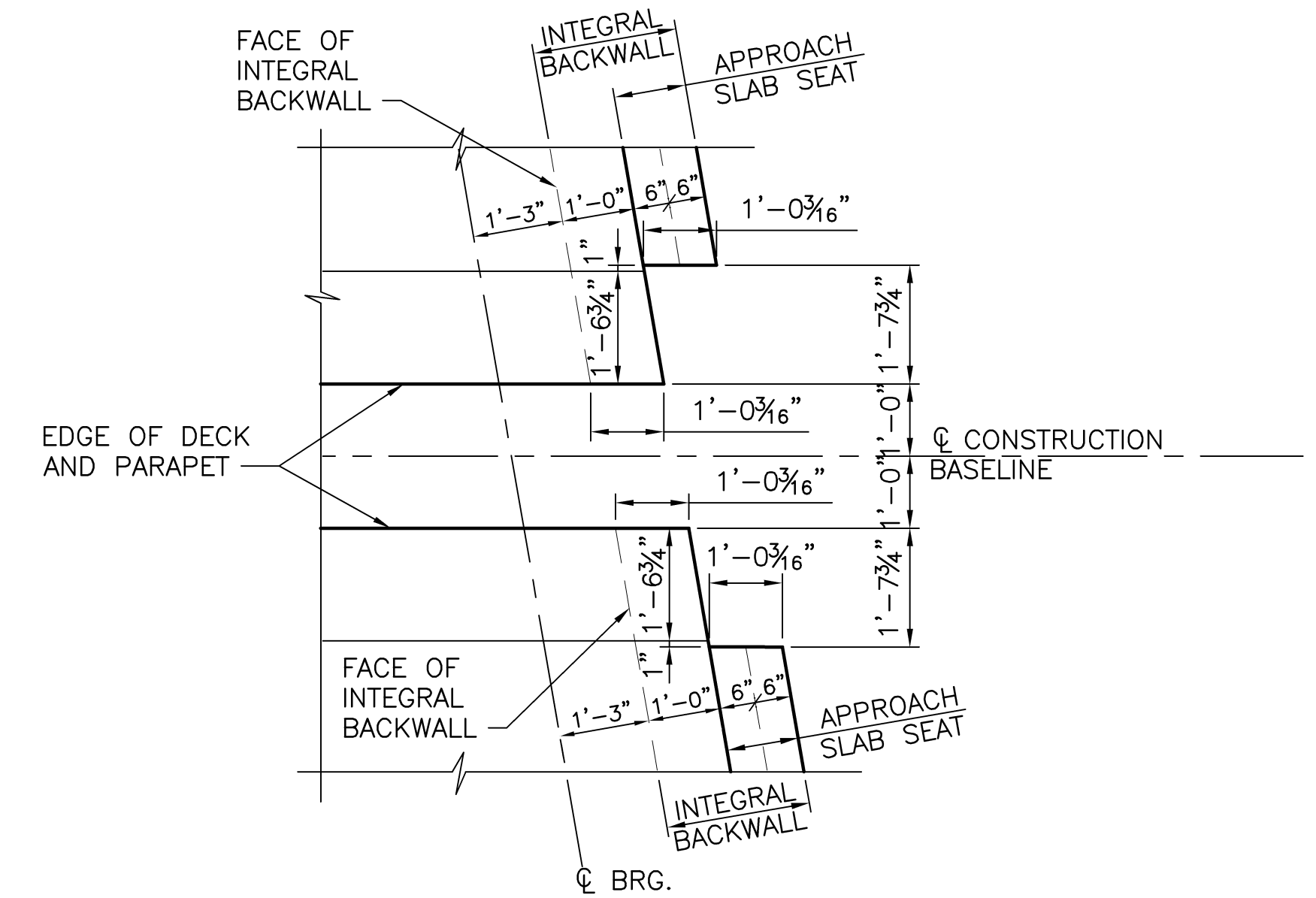
PRE-FABRICATED BRIDGE UNITS
SCALE: 1"=10'

DECK NOTES:

1. TRANSVERSE REINFORCEMENT LISTED AS STRAIGHT SHALL BE SHOP OR FIELD BENT AS REQUIRED TO PROVIDE MINIMUM COVER.
2. DECK SLAB REINFORCING COVER SHALL HAVE TOLERANCE OF (+) 1/4", (-) 0" FOR TOP BARS AND (+) 1/8", (-) 0" FOR BOTTOM BARS.
3. 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.
4. ALL TRANSVERSE DECK REINFORCEMENT TO BE PLACED PARALLEL TO CENTERLINE OF BEARINGS.
5. DECK CONCRETE PLACEMENT SHALL BE IN ACCORDANCE WITH THE R.I. STANDARD SPECIFICATIONS.



DETAIL 1-2 (SIM.)
SCALE: 1/2"=1'-0"



DETAIL 3-4 (SIM.)
SCALE: 1/2"=1'-0"

REVISIONS		
NO.	DATE	BY
1	5/1/19	WK

RHODE ISLAND
DEPARTMENT OF TRANSPORTATION

BRIDGE REPLACEMENT
BRIDGE GROUP 54A -
I-95 KINGSTON ROAD
 RICHMOND, RHODE ISLAND
 KINGSTON ROAD BRIDGE No. 403
PRE-FABRICATED BRIDGE UNITS
DETAILS SHEET 1

CHECKED BY _____ DATE _____ SCALE AS SHOWN