# STATE OF MAINE DEPARTMENT OF TRANSPORTATION

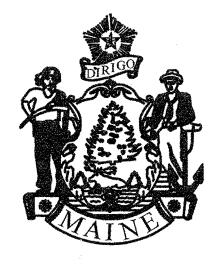
# <u>MATERIALS</u>

Concrete (Unless noted other Concrete (Curbs & Transition Concrete Wearing Surfaces Reinforcing Steel. Structural Steel: All Material.	n Barriers)	ASTM	Class "LP" Class "LP" A 6/5/A 6/5M, Grade 60
BASIC DESIGN			

Concrete	. f'c =	4.350	DS
Reinforcing Steel			

## MAINTENANCE OF TRAFFIC

The Contractor shall coordinate all maintenance of traffic with the Highway Work. See also phasing plans and special provisions 105, 107 and 652.



# FALMOUTH TO S.PORTLAND CUMBERLAND COUNTY INTERSTATE 295 SOUTHBOUND

# BRIDGE REHABILITATION PROJECTS

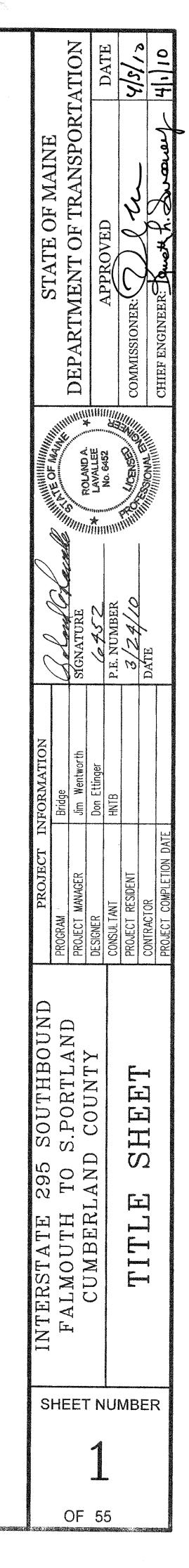
IM-1779(300)E

PROJECT LENGTH 8.2 mi. WEARING SURFACE REPLACEMENTS, DECK REHABILITATIONS, JOINT MODIFICATIONS, ENDPOST REPLACEMENTS, DRAIN AND RAILING REPAIRS

> BRIDGE NUMBERS: 1505, 5618, 5616, 5617, 0816, 6300, 6298, 6297, 6296, 6295, 6294, 6292, 6291, 6281, 6249, 1513, 3088, 6299

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						ESTIMA	TED BRIDGE	C QUANTITIE	S										
ITEM NO	O. DESCRIPTION	QUANTITY	QUANTITY	QUANTITY	QUANTITY	QUANTITY	QUANTITY	QUANTITY	QUANTITY	QUANTITY	QUANTITY	QUANTITY	QUANTITY	QUANTITY	QUANTITY	QUANTITY	QUANTITY	TOTAL	UNIT
		Presumpscot	Kensington	SLARR/CNRR	Sherwood	Washington	Franklin	Forest	St. John	PTRR - (St.	St. James	Congress St -	Portland	PTRR	Fore	Westbrook	8239E (State		
		River	Street		Street	Avenue	Arterial	Avenue	Street	John)	Street	Park Avenue	Connector	(Fore River)	River	Street	Route 703)		
		Br. No. #/505	Br. No. 5618	Br. No. 56/6	Br. No. 5617	Br. No. 08/6		Br. No. 6298	Br. No. 6297	Br. No. 6296	Br. No. 6295	Br. No. 6294			Br. No. 628/	Br. No. 6249			
202.202	2 REMOVING PAVEMENT SURFACE	985	300	875	245	0	735	670	600	620	575	1020	855	1110	2750	650	1050	13040	SY
202.30	REMOVING EXISTING CONCRETE WEARING SURFACE (605 SY)	0	0	0	0	/	0	0	0	0	0	0	0	0	0	0	0	1	LS
502.29	STRUCTURAL CONCRETE WEARING SURFACE ON BRIDGE (38 CY)	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	LS
502.70	BRIDGE DRAIN - TYPE A	0	0	8	0	0	0	0	0	0	0	0	0	0	0	0	4	12	ΕA
502.70	BRIDGE DRAIN - TYPE C	0	0	0	0	0	0	0	0	0	0	0	0	0	20	0	0	20	ΕA
502.701	BRIDGE DRAIN GRATE MODIFICATION	20	0	0	0	0	0	0	0	0	0	0	0	0	0	4	0	24	EA
507.0926	6 FURNISH ALUMINUM BRIDGE RAIL COMPONENTS	0.2	0	0	0	0	0.1	0	0	0.2	0	0.2	0	0.2	0./	0	0	/	LS
507.0927		4	0	0	0	0	0	0	0	0	0	/	0	2	/	0	0	8	EA
	8 ALUMINUM BRIDGE RAIL, RAIL SECTION REPLACEMENT	120	0	0	0	0	40	0	0	160	0	160	0	200	40	0	0	720	LF
507.30	ALUMINUM BRIDGE RAIL SPLICE RETROFIT	24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	24	ΕA
508.14		0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.1	0./5	0.05	0.1	/	LS
5/5.2/		0.04	0.03	0.03	0.03	0.5	0.03	0.03	0.03	0.03	0.03	0.04	0.03	0.04	0.04	0.03	0.04	/	LS
* 5/8.39		0	15	50	15	40	35	40	35	35	35	60	50	45	185	35	70	745	LF
* 5/8.50		570	85	930	105	170	210	/90	170	180	170	590	120	640	1980	190	610	6910	SF
* 5/8.5/	REPAIR OF UPWARD FACING SURFACES - BELOW REINFORCING STEEL <7.9 IN.		40	500	60	40	50	40	40	40	40	/30	30	140	450	40	140	1910	SF
* 5/8.52		/	/	3	/	/	/	1	/	/	1	/	/	1	2	/	/	19	СҮ
* 5/8.60	REPAIR OF VERTICAL SURFACES < 7.9 IN.	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	160	SF
* 5/8.6/	REPAIR OF VERTICAL SURFACES > 7.9 IN	/	/	/	/	1	1	1	1	/	1	/	/	1	/	/	/	16	СҮ
520.241	I BRIDGE JOINT MODIFICATION TYPE I	0	0	0	0	0	0	0	0	0	0	0	0	0	0	/	0	/	EA
	2 BRIDGE JOINT MODIFICATION TYPE 2	0	0	2	0	0	2	2	/	/	/	2	2	2	0	0	0	15	EA
	3 BRIDGE JOINT MODIFICATION TYPE 3	/	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	/	EA
	4 BRIDGE JOINT MODIFICATION TYPE 4	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	2	EA
	5 BRIDGE JOINT MODIFICATION TYPE 5	/	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	3	EA
	6 BRIDGE JOINT MODIFICATION TYPE 6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	/	0	/	EA
	7 BRIDGE JOINT MODIFICATION TYPE 7	0	0	0	0	0	0	0	/	/	/	0	0	0	0	0	2	5	EA
	04 STEEL BEARINGS, EXPANSION, ROCKER	10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	10	EA
524.30/		/	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	LS
526.30/		0.05	0.07	0.07	0.07	0.06	0.02	0.02	0.06	0.06	0.06	0.08	0.07	0.02	0.17	0.06	0.06	1	LS
526.34		4	/	0	/	2	4	4	2	0	2	4	4	4	4	4	4	44	EA
527.34		/	/	0	0	/	/	/	1	0	0	/	/	/	/	/	/ /	12	UN
627.76		0.//	0.06	0.06	0.06	0.09	0	0	0.05	0.05	0.05	0.05	0.09	0	0.18	0.11	0.04	/	LS
627.77		1750	650	650	650	/300	0	0	850	850	850	850	1250	0	1900	1500	/550	14600	SF
* 629.05		10	10	10	10	10	10	10	10	10	10	10	10	10	20	20	10	180	HR
* 631.10		8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	128	HR
* 631.//	AIR TOOL (INCLUDING OPERATOR)	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	128	HR
645.306		0	100	0	0	30	0	0	40	0	0	30	30	0	30	30	0	290	EA
		-		-			-							-					+

\* Undetermined Location

Notes:

I. Estimated Quantities for each bridge are provided here for reference purposes only. 2. 403,429 and 652 pay items are included with the highway paving project, PIN #16787.00.

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PROJ. MGR. DESIGN-DETAILED CAH						REVISIONS 3 _	REVISIONS 4 _	FIELD CHANGES
295 #0	$\dot{n}$	CUMBERLAND COUNTY				FSTIMATED BRIDGE OUANTITIES		
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## GENERAL

I. Bidders and Contractors may obtain a copy of the existing bridge plans by faxing a request for information to the bid contact person. Existing bridge plans may also be accessed at the web address below. The plans are reproductions of the original drawings as prepared for the construction of the bridges. It is very unlikely that the plans will show any construction field changes or any alterations which may have been made to the bridge. http://www.maine.gov/mdot/comprehensive-list-projects/project-information.php

2. All dimensions, angles and stationing shown on existing plans are taken from as-built construction drawings from 1952 through 1995, supplemented by limited field measurements and are not guaranteed to be correct. All existing bridge information shall be verified in the field by the Contractor prior to commencing any work.

3. Bidders and Contractors may obtain a copy of bridge deck evaluation report for the existing bridges by faxing a request for information to the bid contact person. The report contains visual inspection information and deck core data of the bridge. There is no assurance the information or data is a true representation of the actual conditions at the time of construction.

4. Contractor shall note that Maine DOT has other active projects in the area including Sign Truss Replacement Projects STP-1302(300)X and IM-1302(210)E. Existing I-295 overhead sign trusses located just north of the Sherwood Street Bridge and north and south of the Tukeys Bridge are scheduled for replacement in 2010 as well as existing sign trusses on State Route 703 and Forest Avenue near I-295. Contractor shall coordinate his work and traffic control with these and other contracts.

## <u>UTILITIES</u>

I. Utilities in this contract are listed in Special Provision Section 104, Utilities.

2. All utility facilities shall be adjusted by the respective utilities unless otherwise noted.

3. The locations of the existing utilities, bridge wiring and monitoring instruments (i.e. Utilities and Special Equipment) shown on these plans are based on the best available information and are approximate. The Contractor shall verify the location of all existing utilities and special equipment prior to starting work. The Contractor shall protect existing utilities and special equipment during construction and shall provide temporary supports where required by his operations. Temporary supports shall be approved by the utility or special equipment owner prior to their installation and use. The cost of this work shall be considered incidental to the work required under Item 659.10 Mobilization.

4. The Contractor shall note that some bridges have PVC or galvanized electrical conduits embedded in the wing walls, deck curbs and decks. Prior to demolition of any component, or drilling and grouting into any component, the contractor shall field locate the conduit(s) and verify the work will not damage the conduit. The Contractor shall advise the Resident of all interferences prior to proceeding with the work. See the project as-builts for additional information. Any damaged conduits or wiring resulting from the contractors operations shall be repaired to the Resident's satisfaction at no cost to the Department.

## BRIDGE RAILING

I. All aluminum bridge rail, rail posts, and associated hardware which are to be removed shall be carefully salvaged by the Contractor and will remain property of the Department. Contractor shall transport materials to the Maine DOT maintenance lot at Dunstan Corner in Scarborough. Contact is Ken Littlefield at 592-1861. Payment will be considered incidental to related Contract items.

2. The drawinas show the approximate number of damaged bridge rail posts and damaged bridge rail sections that are to be replaced on this project. The actual quantity of bridge rail and post replacement shall be as directed by the Resident.

3. The Contractor shall furnish the quantity of bridge rail, posts and splice bars specified in the Contract to the Department. The Department shall provide the necessary bridge rail components to the Contractor to make the identified repairs. The components shall come from the Department's existing stockpiles initially, and from the materials supplied by the Contractor after the Department's stockpiles are depleted. All bridge rail post anchor bolts, anchor bolt anchoring materials, and splice rail modification bolts shall be furnished by the Contractor.

4. Bridge rail splices shall be modified on the I-295 over Presumpscot River Bridge and I-295 over Westbrook Street Bridge in accordance with the standard and supplemental details and as noted on the drawings. All splice rail modification bolts shall be furnished by the Contractor.

5. At the Resident's discretion, and based on available materials, damaged bridge rail sections may be replaced in either full length sections or in shorter rail sections. Bridge rail section replacement shall be completed such that all proposed and existing lengths of rail are attached to a minimum of two posts, and such that all rail splices are located two feet from a post.

6. Bridge rail posts that are relocated as part of the concrete transition barrier modifications, and bridge rail sections shortened or extended as part of the concrete transition barrier modifications, shall be considered incidental to the concrete transition barrier modification pay items. Components necessary to extend rails section or relocate bridge posts shall come from the Department's stockpiles located at the Maine DOT maintenance lot, Dunstan Corner in Scarborough. Contact Ken Littlefield at 592-1861. All bridge rail post anchor bolts, anchor bolt anchoring materials, and splice rail modification bolts shall be furnished by the Contractor.

7. Numerous bridges on this project have no existing concrete end post on the departure passing side of the bridge. Existing bridge rail extends across the median along the closure wall. Concrete transition barrier is proposed at these locations. Contractor shall remove the l'-6" radius rail corner sections and cut or remove additional rail as necessary to complete the work, but removal shall not exceed I'-O" beyond the proposed back of endpost unless directed by Resident. Coordinate work with Resident. Work considered incidental to item 526.34.

items.

2. Reinforcing steel schedules will be the responsibility of the Contractor. Refer to Subsection 503.03 of the Standard Specifications for more information. Payment for all work associated with developing reinforcing steel schedules will be considered incidental to related Contract items.

6. Removal of existing bridge rail transition barriers and installation of new bridge rail transition barriers shall occur behind concrete barrier and NCHRP350 compliant impact attenuation systems.

7. Any damage to existing concrete or reinforcing steel resulting from the work performed, shall be repaired or replaced by a method approved by the Resident at no cost to the Department.

8. All reinforcing steel that is to be exposed and reused shall be cleaned by a method approved by the Resident. Payment shall be incidental to related contract items.

II. All expansion joints shall be fabricated so the expansion joints construction joints align with the phasing plans. New seals shall be installed full length after all sections of the joint armor have been installed.

12. All existing materials which are removed from the work area shall be removed from the site and properly disposed of by the Contractor in a manner approved by the Resident. These existing materials include, but are not limited to, concrete, metal casing, reinforcing steel, silt and other debris on or attached to the structure within the work areas. The cost of removal and disposal shall be considered incidental to the cost of the work items for which these removals are required.

13. Contractor shall form a one inch V-groove on the fascias at the horizontal joint between the curb and slab.

15. Mortar for bedding and for joints in the granite curb shall contain an approved non-shrink additive.

17. The Contractor is advised none of the bridge decks are scheduled to be scarified. Only the existing pavement, membrane, and pavement shim (where applicable) is to be removed. See Section 202.031 of the Specifications for additional information.

18. If the depth of the deteriorated concrete is below the reinforcing steel then remove the concrete to a minimum depth of linch below the bars.

19. Anchor rods shall be ASTM F1554, Grade 55.

20. Where railing posts are required to be relocated new anchor rods conforming to ASTM FI554 Grade 50 shall be furnished and drilled and anchored into the existing curb. The depth of embedment shall be sufficient to develop an ultimate tension capacity of 33 kips per anchor rod. Payment for bridge rail post relocation and associated materials, equipment, labor and incidentals necessary to complete the work will be considered incidental to Item 526.34. Permanent Concrete Transition Barrier.

21. All transverse reinforcing steel in the deck and backwall shall run continuously along the full width of the bridge. Payment for lap splices and threaded couplers will not be paid for directly, but shall be considered incidental to the related contract items.

22. The reinforcing steel and anchor rod anchoring material shall be selected from Maine DOT's qualified products list or an approved equal. The contractor shall submit the proposed system to the resident for approval. The selected anchoring material shall be installed in strict accordance with the selected manufacturer's recommendations. Reinforcing steel and anchor rods, drilled and anchored into existing concrete, shall be embedded to develop 125% of the yield strength of the bar.

## <u>STRUCTURAL</u>

I. Payment for removing existing concrete end posts will be considered incidental to related Contract

3. Granite curb salvaged from the project site will be substituted for Terminal Curb Type 2 where available. Payment for reuse of granite curb or for Terminal Curb Type 2 will be considered incidental to Item No. 606.1721, Bridge Transition Type I.

4. Protective coating for concrete surfaces shall be applied to the following areas of new concrete:

All exposed surfaces of concrete curbs,

Fascias down to the drip notch,

All exposed surfaces of Concrete Transition Barriers. 12 Inches below the top of backwalls on the back side.

Concrete wearing surfaces.

5. An NCHRP350 compliant impact attenuation system shall be installed concurrently with the placement of each run of concrete barrier.

9. The integrity of existing approach pavement and subbase gravel shall be maintained during removal of backwall concrete. Payment for any repair or damages shall be incidental to related contract items.

IO. Gland seal(s) or compression seal(s) shall be approved by the Resident prior to installation of joint armor.

14. Reinforcing steel shall have a 2 inch minimum cover unless otherwise noted.

16. For all drilling and anchoring, the anchor material chosen from the pregualified list shall be submitted to the Resident for approval.

23. All proposed anchor rods shall be hot dip galvanized.

## CONCRETE WEARING SURFACE

I. The Contractor will be required to hold pre-placement meetings for the concrete wearing surface one week prior to each placement.

2. Top of concrete wearing surface elevations shall be established by the Contractor at centerline and gutter at IO foot intervals based on centerline finish grade profile. Elevations shall be provided to the Resident one week prior to setting top of concrete wearing surface grades.

3. A steel tine finish shall be applied to the concrete wearing surface.

4. The Contractor shall provide a minimum 7 day wet cure for the concrete wearing surface. After 7 days of wet cure, the Contractor shall allow normal live load traffic, provided that the concrete has reached 80% of design strength. The Contractor shall make concrete test specimens and cure with the concrete wearing surfaces. The Contractor shall submit compressive strength test results to the Resident prior to allowing live loads on the bridge.

5. The existing latex modified concrete wearing surface on I-295 over Washington Street may not be a consistent  $l_{4}$  depth over the entire surface due to a discrepancy in the as-constructed joint elevations. The Contractor shall pothole the existing concrete deck in multiple places prior to removing the wearing surface to determine the actual latex modified wearing surface depths and ensure the structural concrete deck is not damaged during the wearing surface removal. The joint elevation discrepancy will be addressed as part of this contract, and the proposed wearing surface thickness will be varied as required to develop the deck cross slope shown on the original design plans.

# CONSTRUCTION PHASING

I. All traffic control shall be in accordance with the Manual for Uniform Traffic Control Devices for Streets and Highways, USDOT, FHWA, Latest Edition

2. Contractor shall submit traffic control plans for all bridges/work zones in accordance with the Special Provisions 105, 107 & 652 and the Manual of Uniform Traffic Control Devices, latest edition.

3. The construction phasing for the bridge work has been separated into II work zones as follows:

a. I-295 Over Presumpsco
b. I-295 Over Kensington
c. I-295 Over Washington
d. I-295 Over Franklin Ar
e. I-295 Over Forest Aven
f. I-295 Over St John Stre
g. I-295 Over Portland Co
h. I-295 Over PTRR (Fore
i.I-295 Over Fore River
j. I-295 Over Westbrook S
k. I-295 Over State Route

Contractor shall plan the work accordingly. Any proposed modifications to the work zones (grouping of bridges) or phasing of work shall be submitted to the Resident for review and approval.

4. Construction phasing plans represent bridge phasing work only. Required maintenance of traffic is not shown and shall be designed by the Contractor in accordance with Special Provision 652.

5. Contractor shall note work zone time restrictions exist for all work zones. See Special Provisions 105 and IO7 for specific work zone time restrictions and limitations of operations.

6. Contractor shall provide two II foot travel lanes and two I foot shoulders in all work zones, unless otherwise noted on the Plans or in the Specifications. Contractor shall provide one II foot travel lane minimum and two I foot shoulders in all work zones when permitted to reduce traffic to one travel land

7. All lanes in long term lane closures and work zones shall be delineated with temporary paint lines or temporary raised pavement markings. Temporary paint lines will not be permitted on the surface course of new pavement. Temporary raised pavement markings shall only be used when approved by the Resident.

8. Excessively wide lane widths may cause driver confusion. Contractor shall avoid lane widths in excess of 15'-O" unless approved by the Resident.

Plans.

IO. Placement of the high performance membrane shall be in accordance with standard specifications and manufacturers published recommendations. Contractor shall submit proposed membrane overlap details at the longitudinal joints to the Resident for review and approval. Details shall include proposed methodology for bond breaker for the overlaps between construction phases as well as procedures for infilling and removal of bituminous material without damage to the membrane.

II. Single sided bolt down barrier will be required for the Fore River Bridge repair work. Single sided barrier shall be furnished and paid for under 526.301, Temporary Concrete Barrier Type I. Anchorage of the bridge barrier shall be achieved through the use of removable anchorages. Once the barrier is removed the contractor shall remove the anchorages, pack the holes in the deck with mortar, apply hot rubber sealant to the top of the mortar, and pack the hole in the pavement with hot mix asphalt. Payment for this work shall be considered incidental to the Temporary Concrete Barrier pay item.

12. Design of bolted temporary bridge barrier is the responsibility of the Contractor where applicable.

13. Contractor is responsible for all maintenance of traffic required for all work including ramp closures as shown on the plans.

ot River Street, CNRR, Sherwood Street

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านอ reet, PTRR (St John), St James Street, and Congress Street/Park Avenue onnector e River)

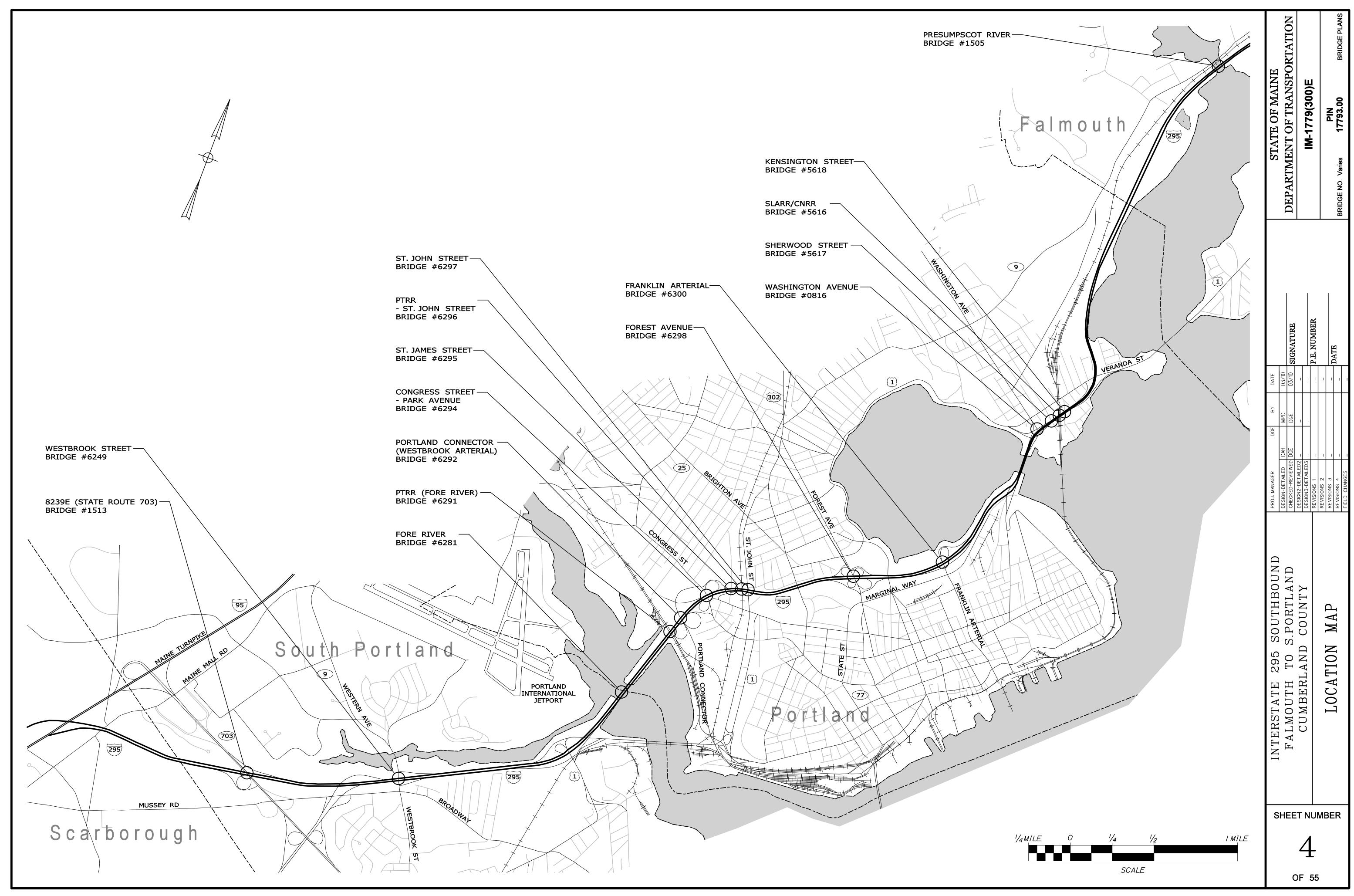
Street

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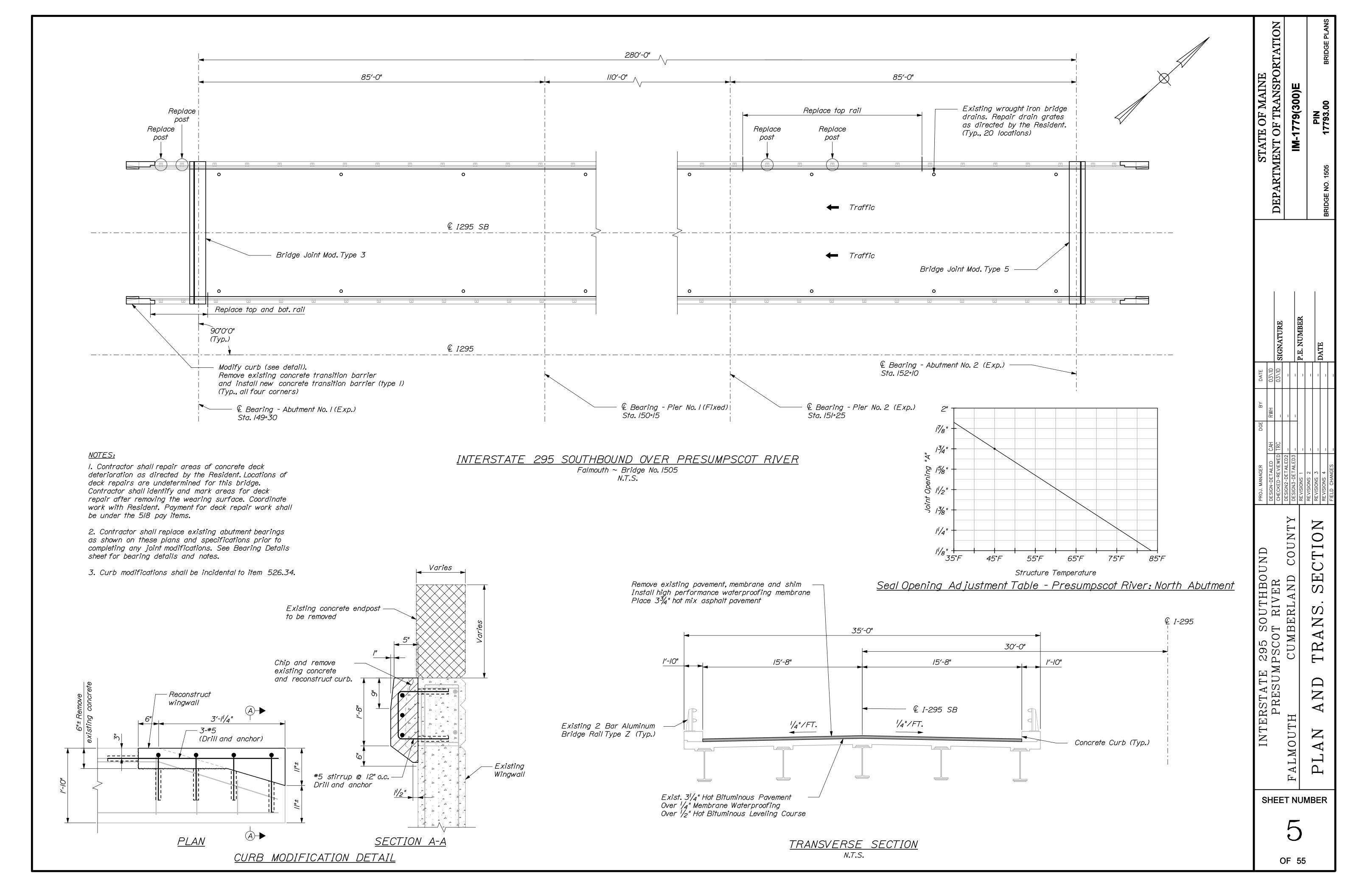
9. Contractor shall install longitudinal pavement joints at crown lines or lane lines as noted on the

	STATE OF MAINE		DEPARTMENT OF TRANSPORTATION		IM-1779/300/F			PIN	RIDGE NO Varies 17793 00 BRIDGE PI ANS	
е	DATE	03/10	03/10 SIGNATURE	1		P.E. NUMBER	-			-
e.	PROJ. MANAGER DGE BY	DESIGN-DETAILED CAH RWH	CHECKED-REVIEWED DGE	DESIGN2-DETAILED2	DESIGN3-DETAILED3	REVISIONS 1	REVISIONS 2 –	REVISIONS 3	REVISIONS 4 _	FIELD CHANGES
	INTERSTATE 295 SOUTHBOUND	E	FALMOUTH TO S.PORTLAND		COMBERTAND COUNTI					
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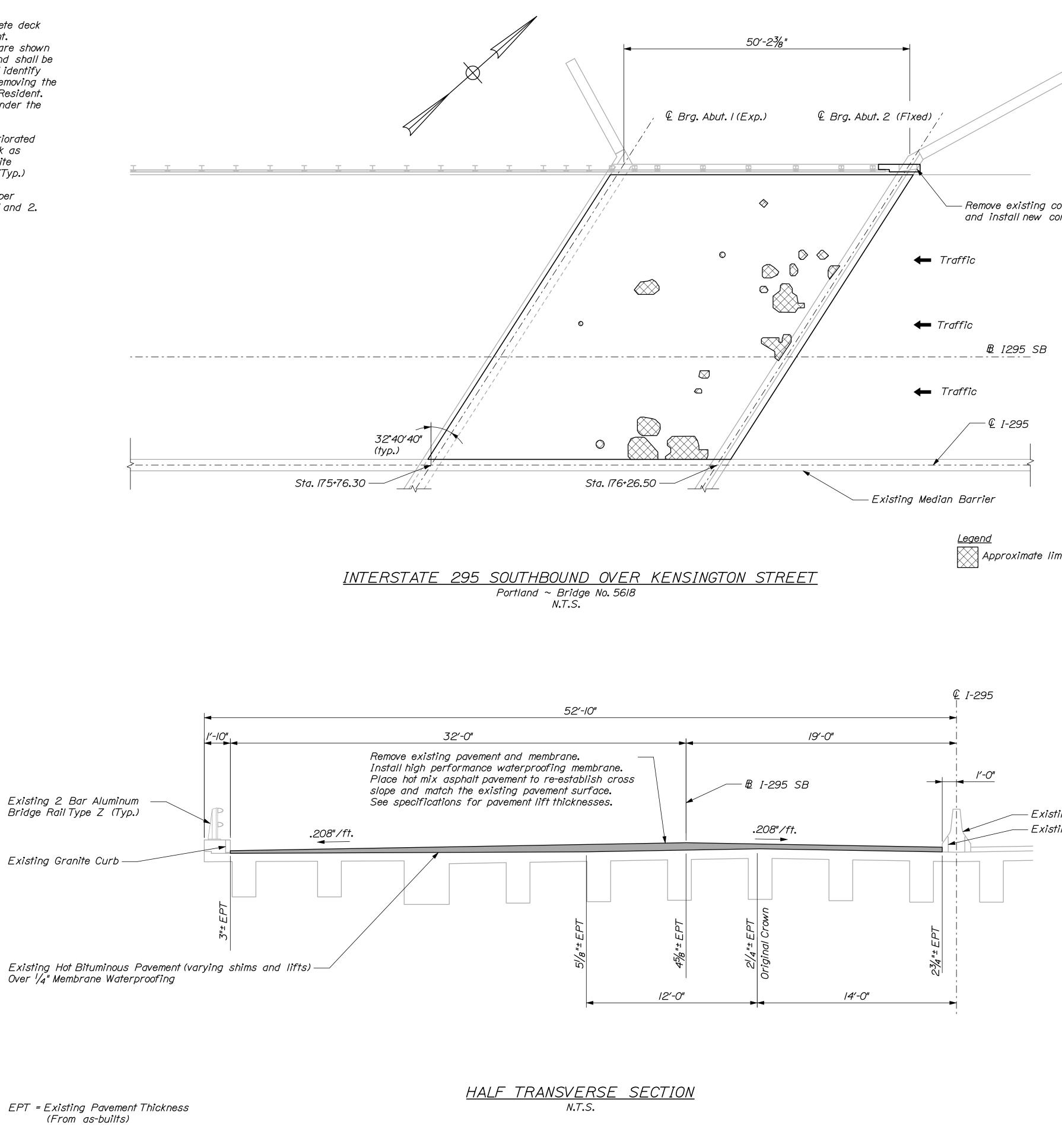
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NOTES:

I. Contractor shall repair areas of concrete deck deterioration as directed by the Resident. Approximate locations for deck repairs are shown on the plan. Exact locations may vary and shall be determined in the field. Contractor shall identify and mark areas for deck repair after removing the wearing surface. Coordinate work with Resident. Payment for deck repair work shall be under the 518 pay items.

2. Contractor shall repair areas of deteriorated granite curb bedding mortar on the deck as required. Locations of deteriorated granite curb bedding mortar are undetermined. (Typ.)

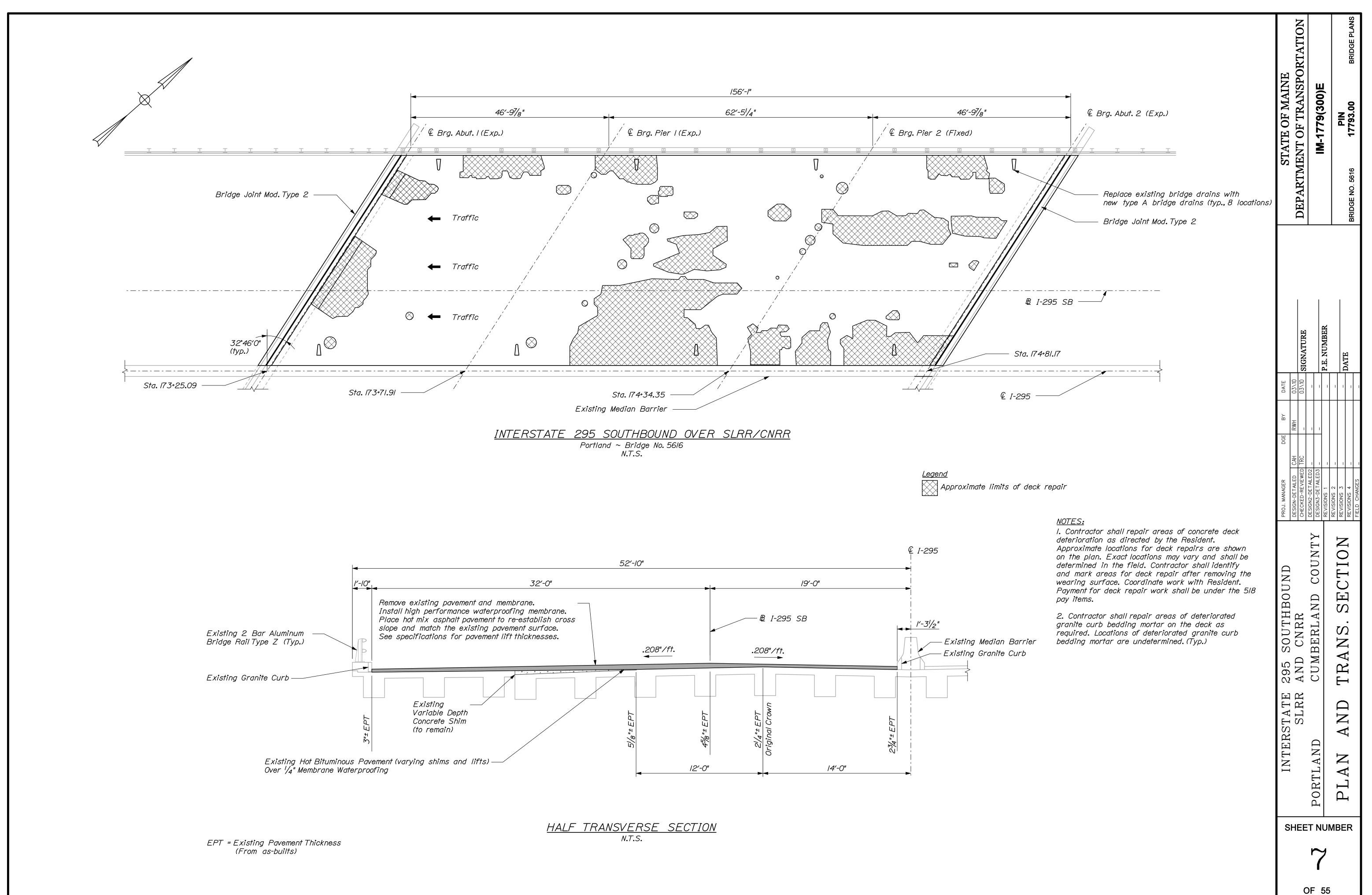
3. Install composite pavement interlayer per detail shown on sheet 23 at Abutments I and 2.



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concrete transition barrier concrete transition barrier (type 2)	STATE OF MAINE         STATE OF MAINE         DEPARTMENT OF TRANSPORTATION         DEPARTMENT OF TRANSPORTATION         IM-1779(300)E         BRIDGE NO. 5618       IT793.00         PIN         PIN
imits of deck repair	PROJ. MANAGERDGEBYDATEDESIGN-DETALEDCAHRWH03/10DESIGN-DETALEDCAHRWH03/10CHECKED-REVIEWEDTRC
sting Median Barrier sting Granite Curb	INTERSTATE 295 SOUTHBOUND KENSINGTON STREET PORTLAND CUMBERLAND COUNTY PLAN AND TRANS. SECTION
	SHEET NUMBER
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	OF 55



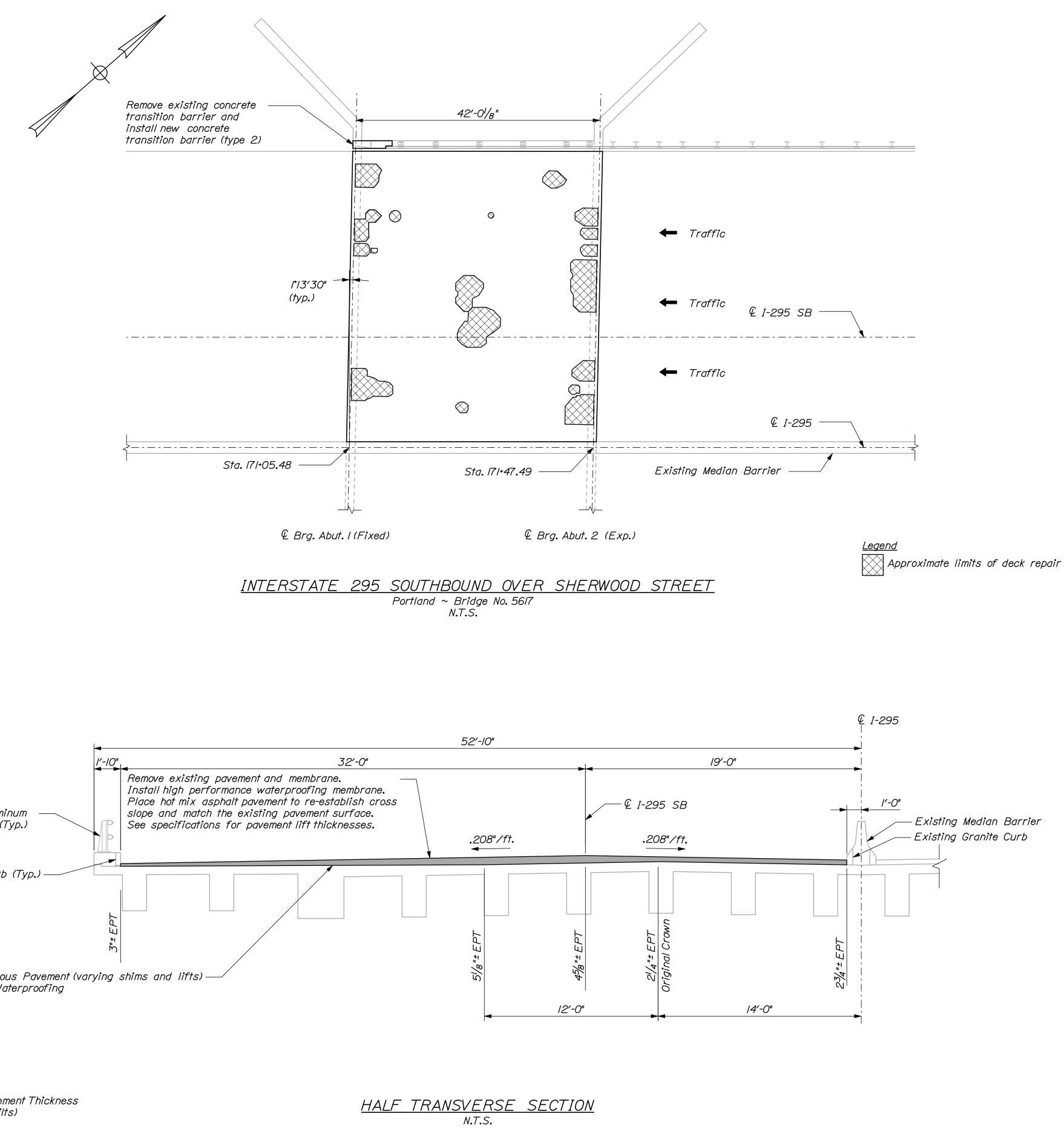
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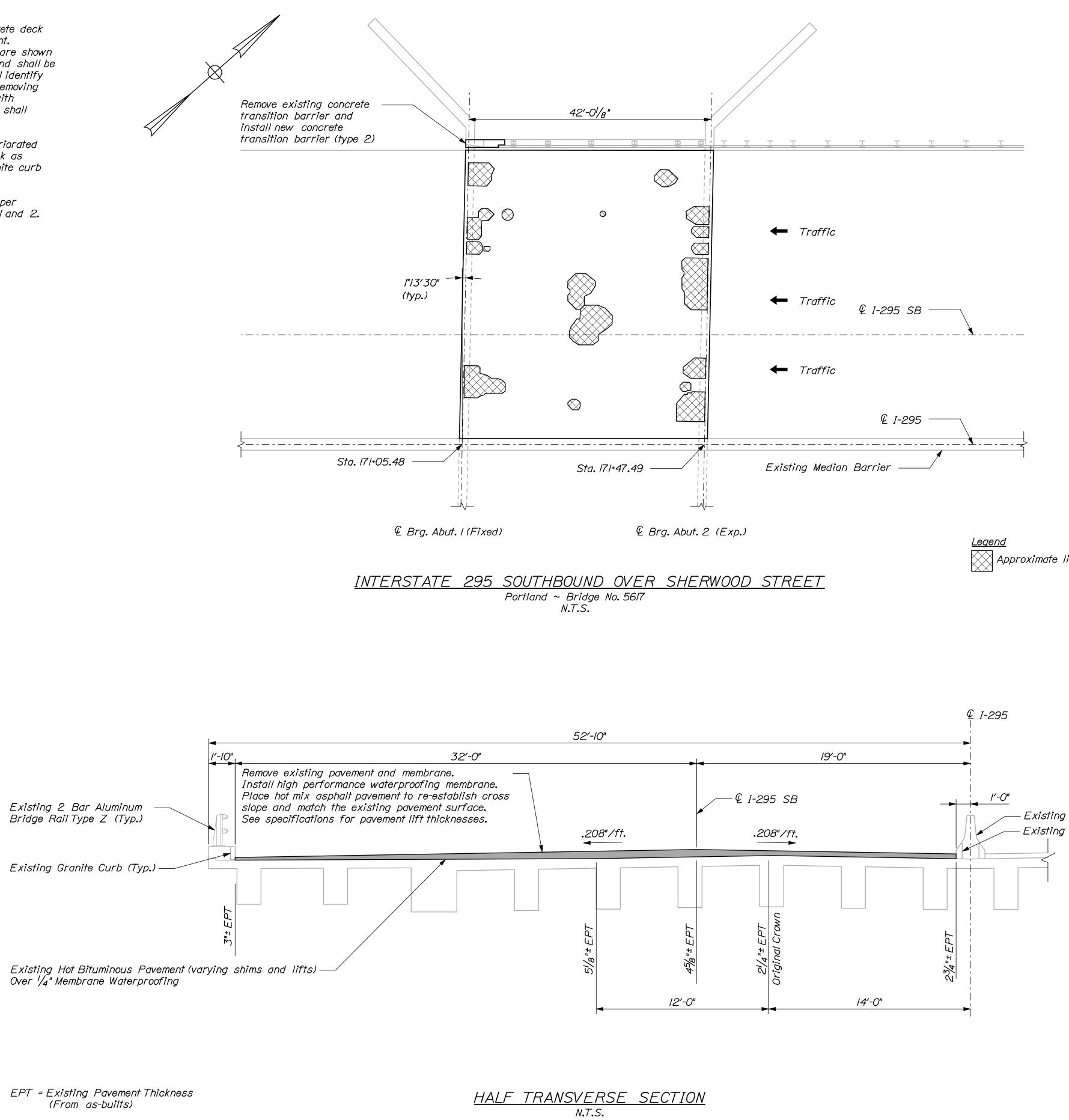
NOTES:

I. Contractor shall repair areas of concrete deck deterioration as directed by the Resident. Approximate locations for deck repairs are shown on the plan. Exact locations may vary and shall be determined in the field. Contractor shall identify and mark areas for deck repair after removing the wearing surface. Coordinate work with Resident. Payment for deck repair work shall be under the 518 pay items.

2. Contractor shall repair areas of deteriorated granite curb bedding mortar on the deck as required. Locations of deteriorated granite curb bedding mortar are undetermined.(Typ.)

3. Install composite pavement interlayer per detail shown on sheet 23 at Abutments I and 2.





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DGE         BY         DATE           D         CAH         RWH         03/10           WED         TRC	STATE     295     SOUTHBOUND     PRO. MANGER     DOE     BY     DATE       SHERWOOD     STREET     DESIGN-DETALED     CAH     RWH     03/10       SHERWOOD     STREET     DESIGN-DETALED     CAH     RWH     03/10       CUMBERLAND     COUNTY     DESIGN-DETALED2     L     03/10       CUMBERLAND     COUNTY     DESIGN-DETALED2     L     D       Revisions     1     L     L     L       AND     TRANS.     SECTION     Revisions     2     L       AND     TRANS.     SECTION     A     DATE	STATE OF MAINE		DEPARTMENT OF TRANSPORTATION		IM_1779/2001E			NIA	17793 DD BRIDGE DI ANS	
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RSTATE 295 SOUTHBOU SHERWOOD STREET CUMBERLAND CUMBERLAND AND TRANS. SEC	RAMERATATE 295 SOUTHBOU SHERWOOD STREET PORTLAND CUMBERLAND PLAN AND TRANS. SEC		DESIGN-DETAILED CAH	CHECKED-REVIEWED TRC	DESIGN2-DETAILED2 _	DESIGN3-DETAILED3 _	REVISIONS 1 _	REVISIONS 2	REVISIONS 3	REVISIONS 4 _	FIELD CHANGES
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— Existing Median Barrier

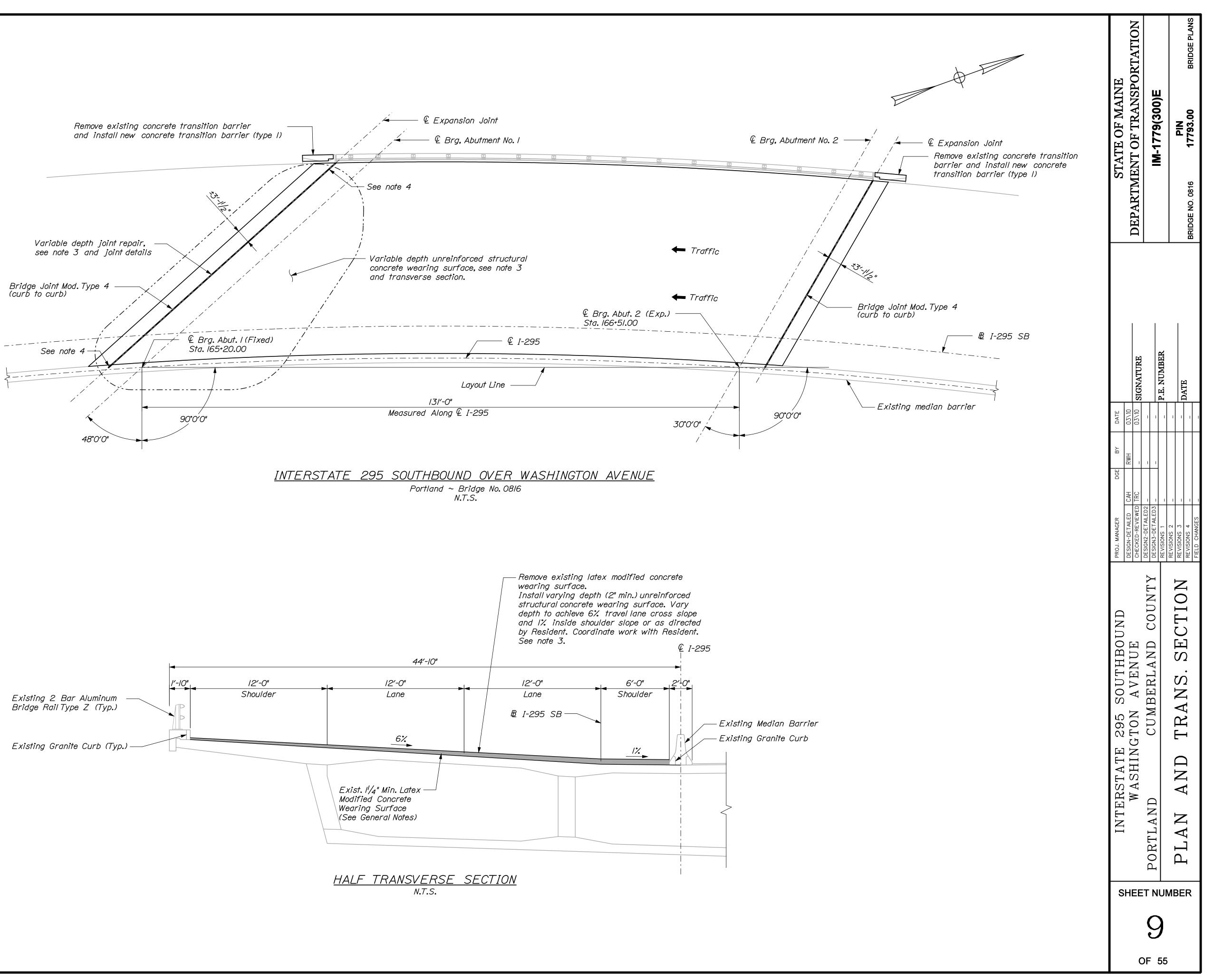
### NOTES:

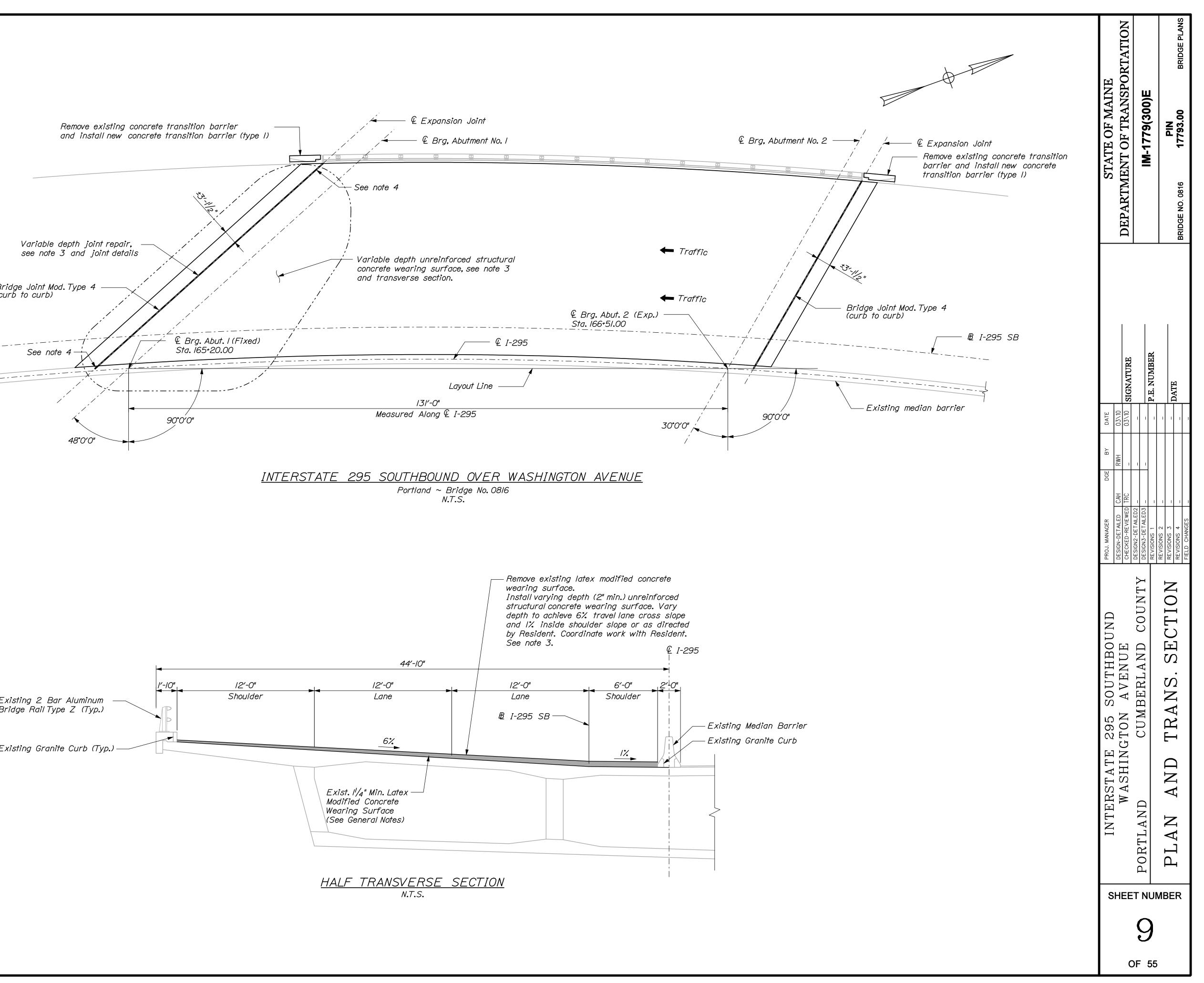
I. Contractor shall repair areas of concrete deck deterioration as directed by the Resident. Locations of deck repairs are undetermined for this bridge. Contractor shall identify and mark areas for deck repair after removing the wearing surface. Coordinate work with Resident. Payment for deck repair work shall be under the 518 pay items.

2. Contractor shall repair areas of deteriorated granite curb bedding mortar on the deck as required. Locations of deteriorated granite curb bedding mortar are undetermined. (Typ.)

3. Contractor shall survey along top of existing deck, joints, and roadway approaches 100 feet beyond joints. Collected information shall include elevation grades at crown, breaks, and 10 feet on center. Contractor shall provide information to resident at least 15 working days before planned joint repair work. Resident to provide proposed finish grades for wearing surface and joint repair work in areas where proposed depths vary. All work associated with survey collection and coordination is considered incidental to the 502 pay items. See also General Notes.

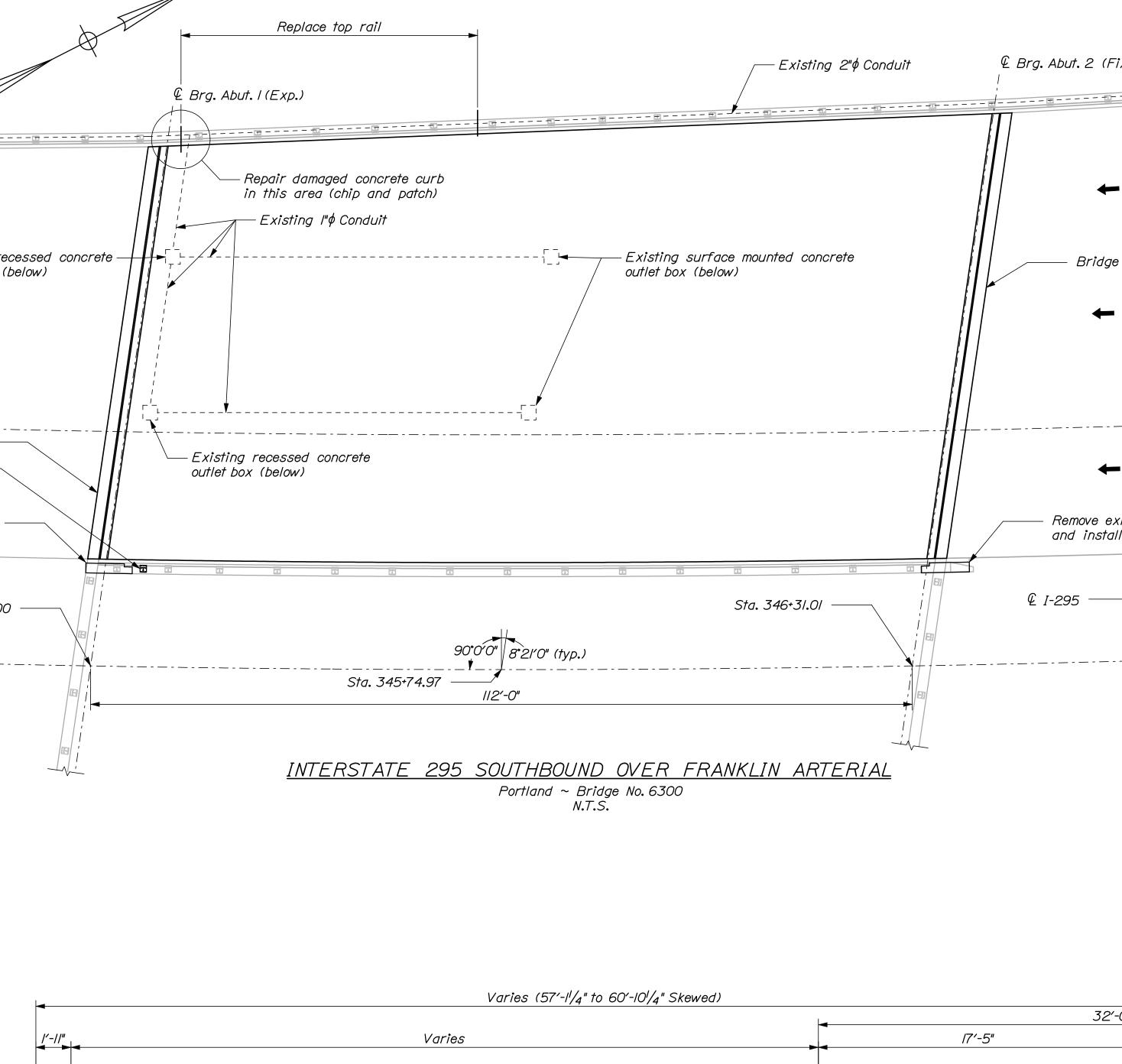
4. At abutment I the proposed steel extrusion and gland seal for the joint modification shall extend beyond the curbline and into the median barrier and turn upward at a 45 degree angle to produce a water-tight joint. The final details of the joint modification, and its attachment to the existing joint armor at the median barrier, will be developed in the field by the Resident once final joint elevations have been developed. At the outside roadway curb (west curb) the top of extrusion elevation shall taper from the corrected elevation to the existing top of extrusion elevation over a distance of approximately four feet. The proposed extrusion shall match into the existing element approximately 6" from the curbline.

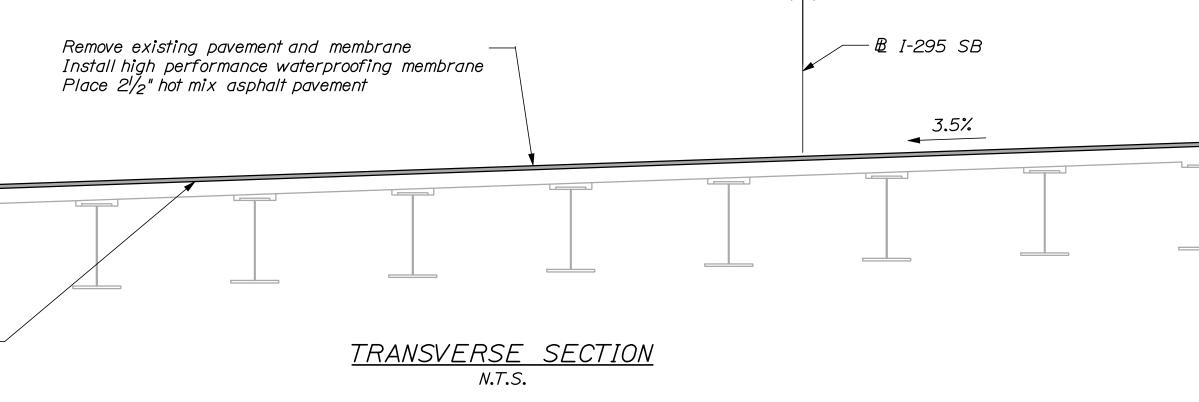




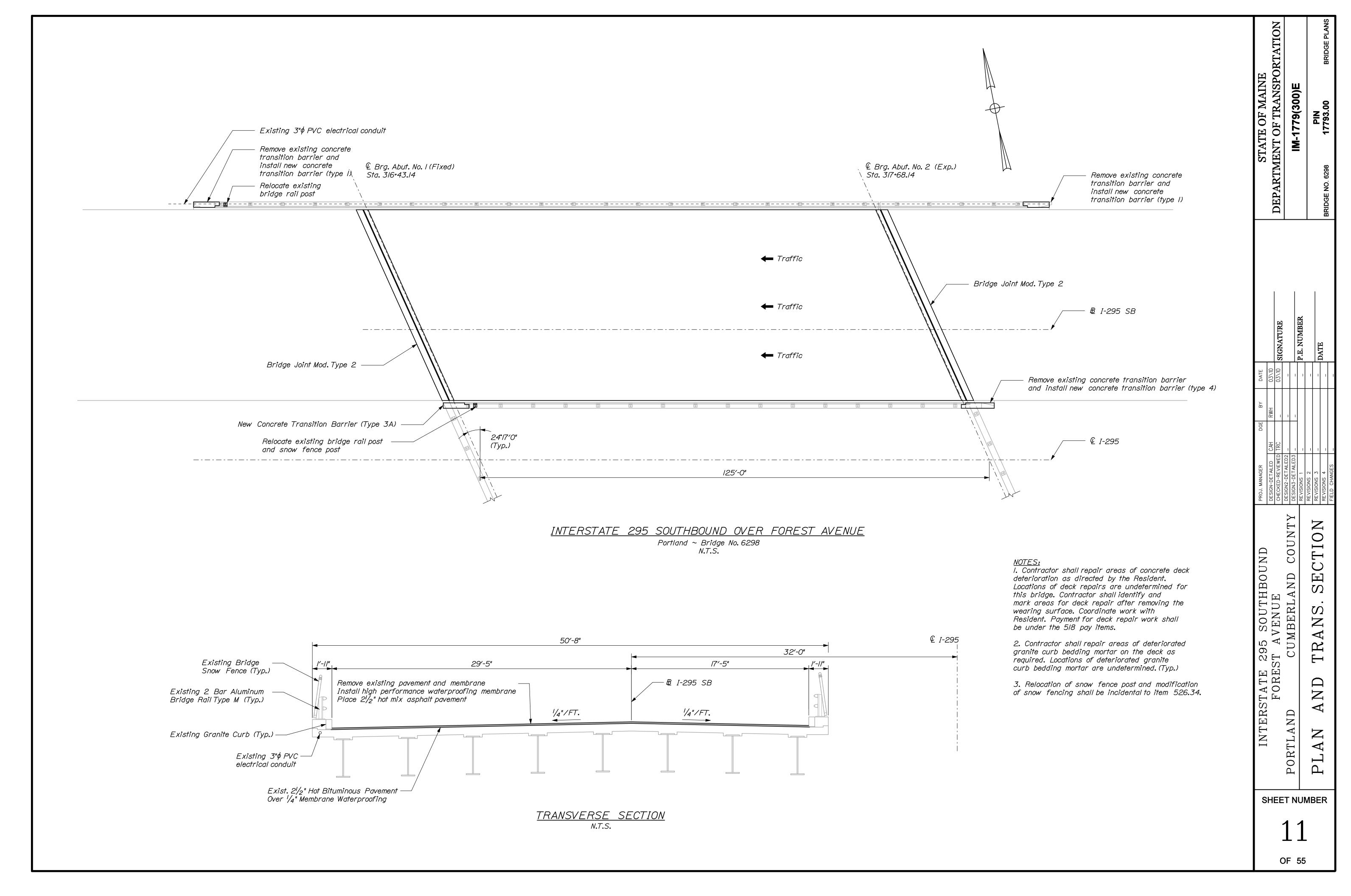
Relocate existing bridge rail post Remove existing concrete -transition barrier and install new concrete transition barrier (type I) Existing recessed concrete – outlet box (below) \_-----Bridge Joint Mod.Type 2 — Relocate existing bridge rail and snow fence post New Concrete Transition Barrier (Type 3A) Sta. 345+/9.00 — \_-----\_ - \_ - \_ -*|′-||"* ◀ ►|◀ Existing Bridge – Snow Fence (Typ.) Existing 2 Bar Aluminum Bridge RailType M (Typ.) Existing Granite Curb (Typ.) — Existing 2"¢ PVC – electrical conduit Exist. 21/2" Hot Bituminous Pavement -Over 1/4" Membrane Waterproofing

me: mcundiff Date:3/26,





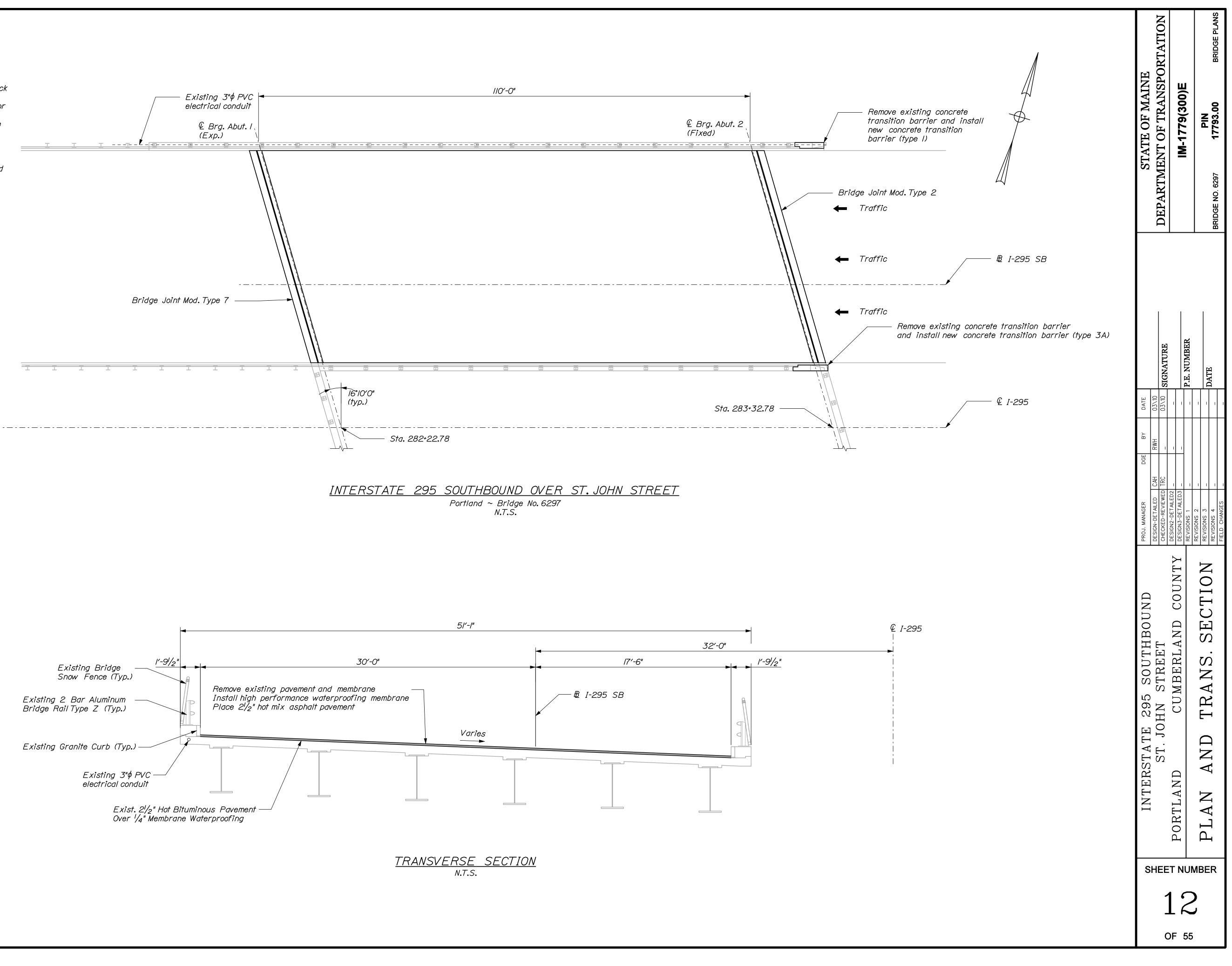
Traffie	Fixed) Fixed) Remove existing concrete transition barrier and install new concrete transition barrier (type ()) Traffic e Joint Mod. Type 2	STATE OF MAINE DEPARTMENT OF TRANSPORTATION IM-1779(300)E	PIN BRIDGE NO. 6300 17793.00 BRIDGE PLANS
	<ul> <li>I 1-295 Southbound</li> <li>Traffic</li> <li>xisting concrete transition barrier (type 4)</li> <li>NOTES:</li> <li>1. Contractor shall repair areas of concrete deck deterioration as directed by the Resident. Locations of deck repairs are undetermined for this bridge. Contractor shall identify and mark areas for deck repair after removing the wearing surface. Coordinate work with Resident. Payment for deck repair work shall be under the 518 pay items.</li> <li>2. Contractor shall repair areas of deteriorated granite curb bedding mortar on the deck as required. Locations of deteriorated granite curb bedding mortar are undetermined. (Typ.)</li> <li>3. Relocation of snow fence post and modification of snow fencing shall be incidental to item 526.34.</li> </ul>	INTERSTATE 295 SOUTHBOUND FROJ. MANGER     PROJ. MANGER     DGE     BY     DATE       PROJ. MANGER     PROJ. MANGER     DESIGN-DETALED     CH     RWH     03/10       PROJ. FRANKLIN     ARTERIAL     DESIGN-DETALED     CH     RWH     03/10       PORTLAND     CUMBERLAND     COUNTY     DESIGN2-DETALED2     D     D       PORTLAND     CUMBERLAND     COUNTY     D     D     D     D       REVISIONS     2     2     2     2     2     2	PLAN AND TRANS. SECTION REVISIONS 3



### <u>NOTES:</u>

I. Contractor shall repair areas of concrete deck deterioration as directed by the Resident. Locations of deck repairs are undetermined for this bridge. Contractor shall identify and mark areas for deck repair after removing the wearing surface. Coordinate work with Resident. Payment for deck repair work shall be under the 518 pay items.

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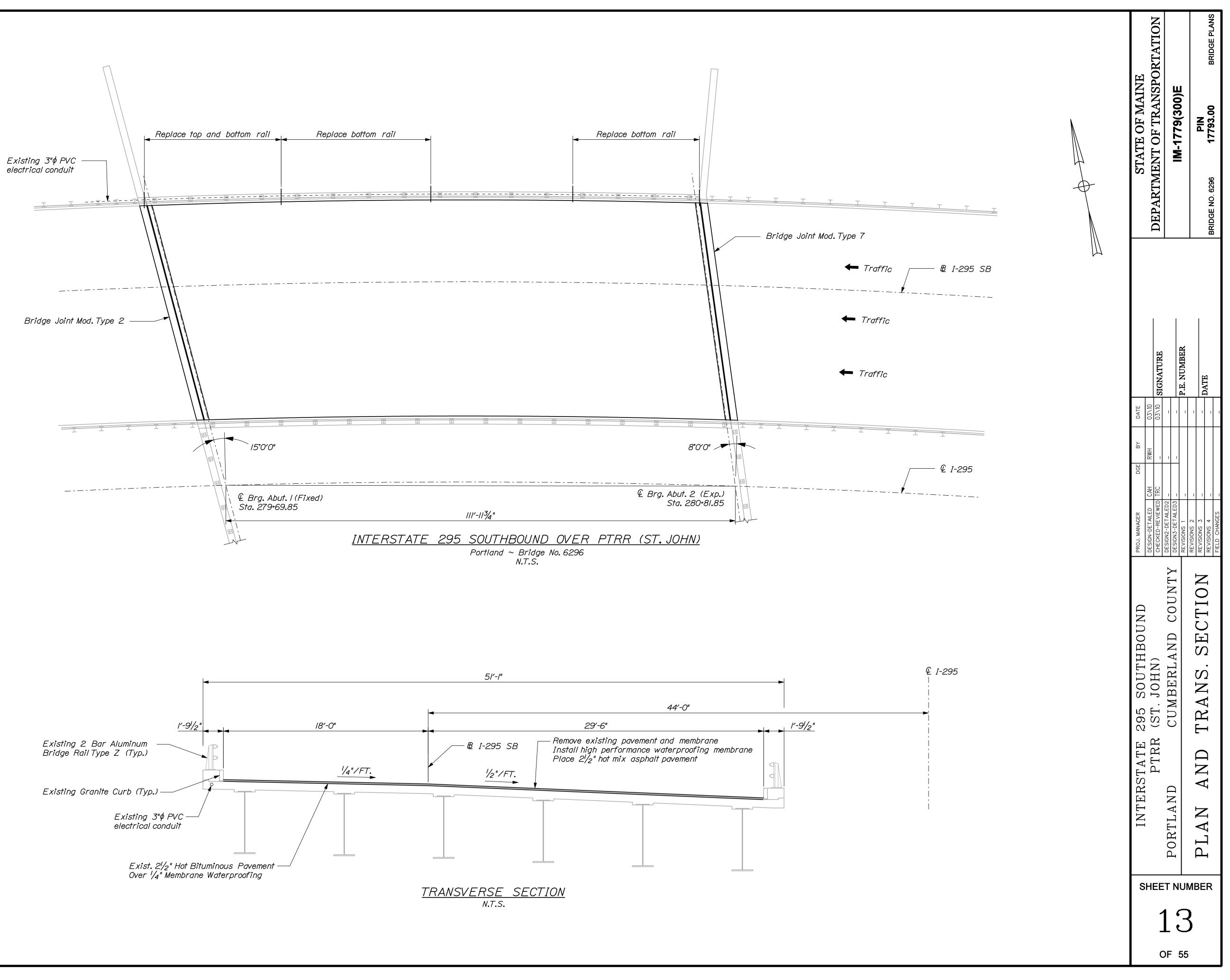


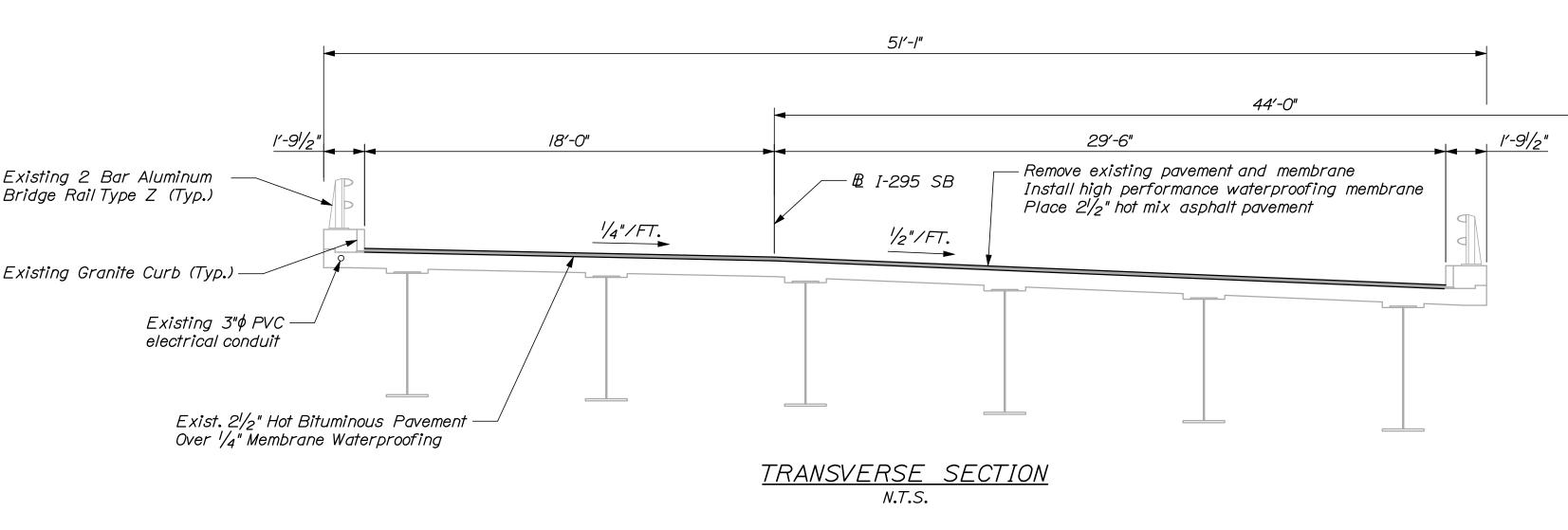
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### <u>NOTES:</u>

I. Contractor shall repair areas of concrete deck deterioration as directed by the Resident. Locations of deck repairs are undetermined for this bridge. Contractor shall identify and mark areas for deck repair after removing the wearing surface. Coordinate work with Resident. Payment for deck repair work shall be under the 518 pay items.

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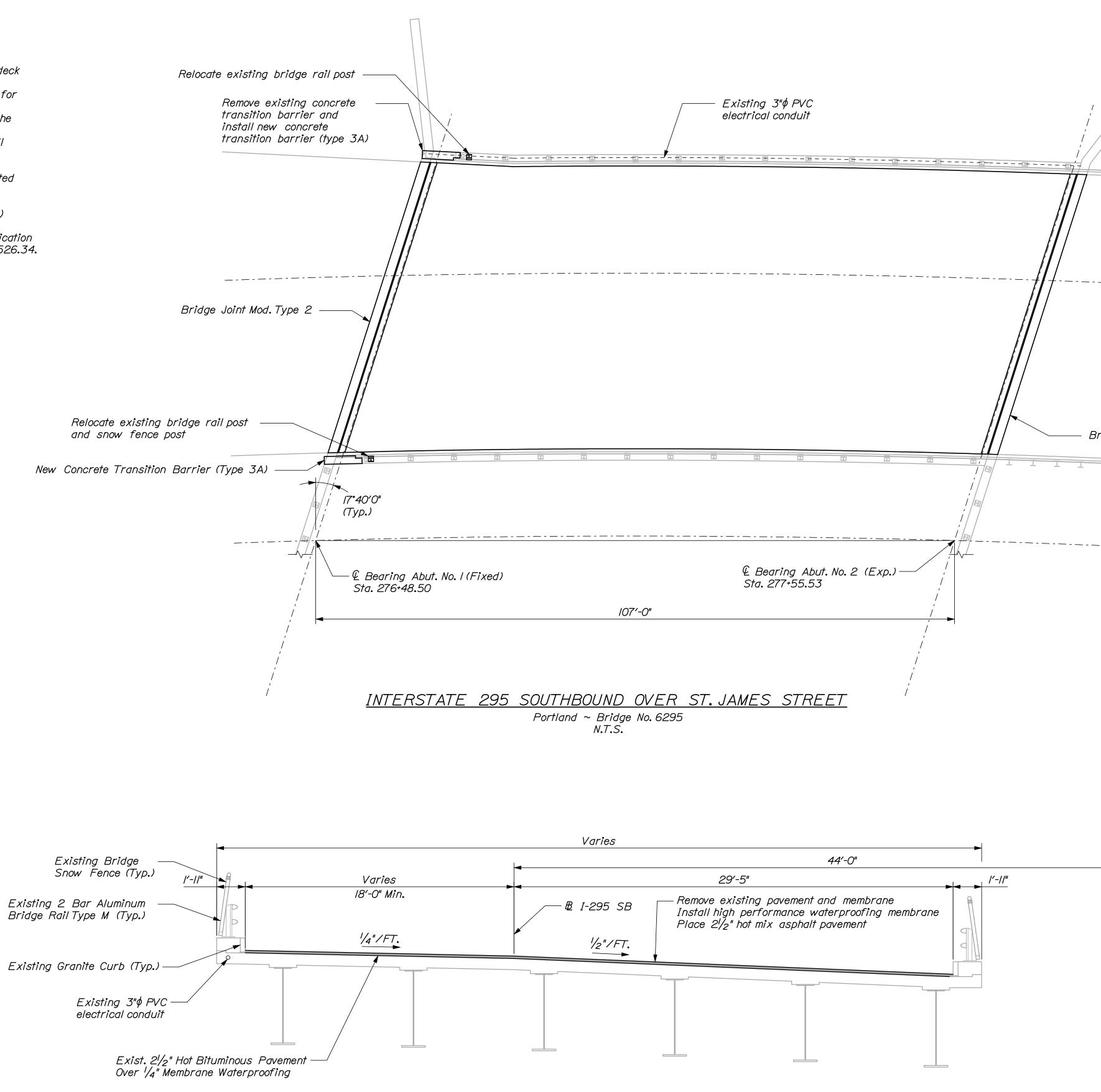


NOTES:

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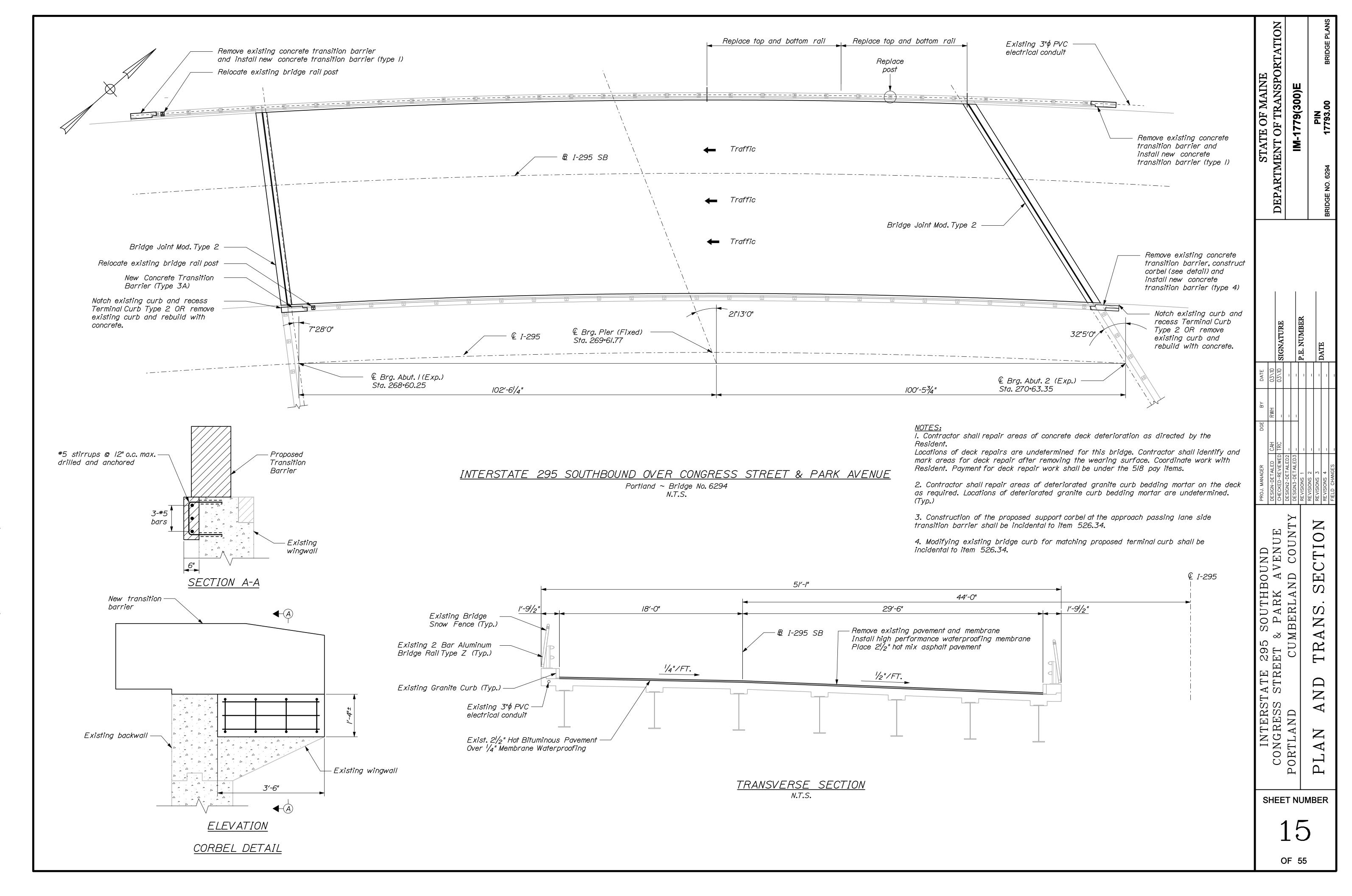
3. Relocation of snow fence post and modification of snow fencing shall be incidental to item 526.34.

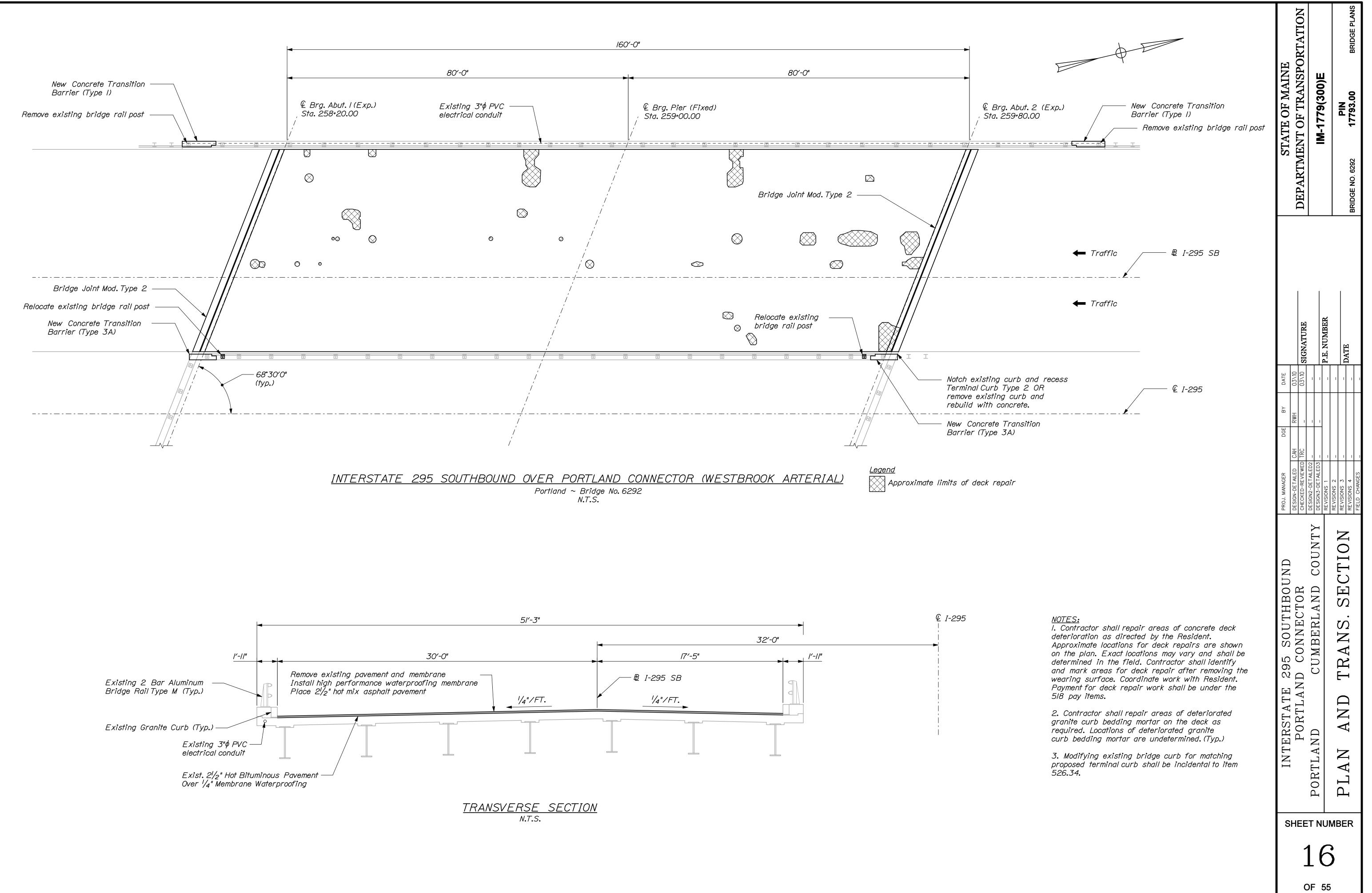


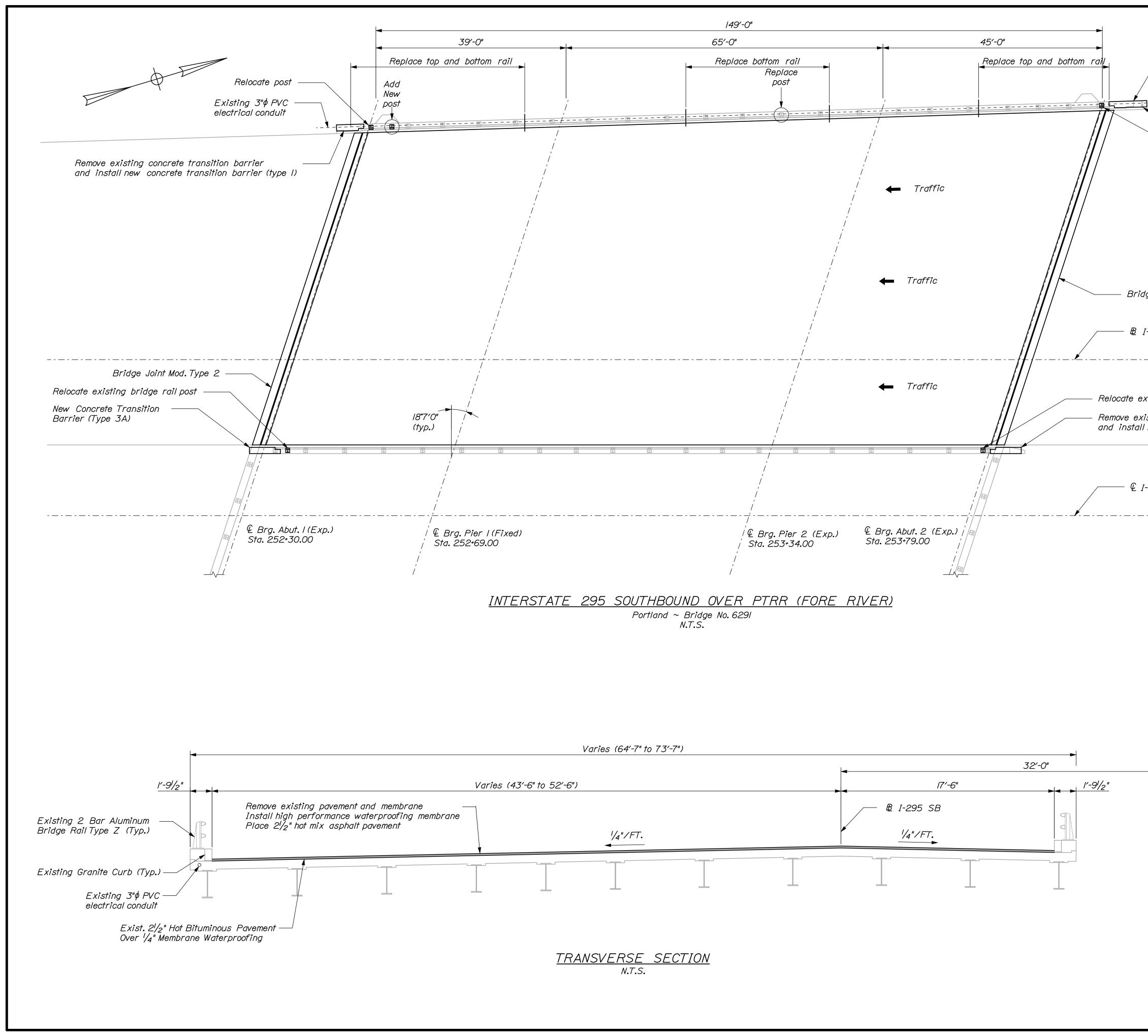
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TRANSVERSE SECTION N.T.S.

Traffic	STATE OF MAINE DEPARTMENT OF TRANSPORTATION	IM-1779(300)E	PIN BRIDGE NO. 6295 17793.00 BRIDGE PLANS
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← Traffic Bridge Joint Mod.Type 7	SIGNATURE	P.E. NUMBER	DATE
 € 1-295	DGE         BY         DATE           CAH         RWH         03\10           TRC         _         03\10	DESIGN2-DETAILED2	REVISIONS         2              REVISIONS         3         _         _         _         _         D           REVISIONS         4         _         _         _         D         _         D           FIELD         CHANGES         _         _         _         _         _         D
¢ 1-295	INTERSTATE 295 SOUTHBOUND ST. JAMES STREET	PORTLAND CUMBERLAND COUNTY	PLAN AND TRANS. SECTION
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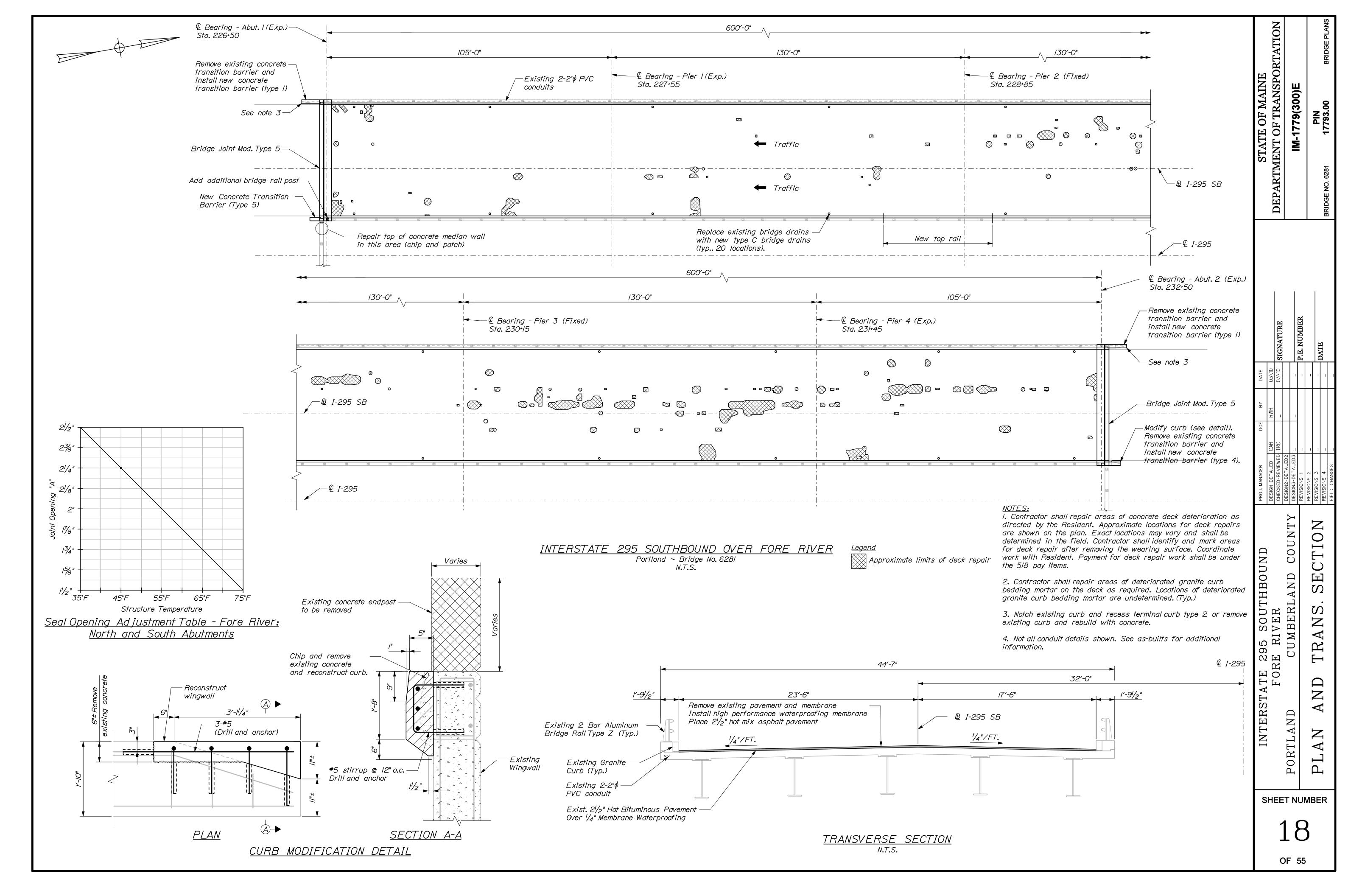


Date:3/26/2010

RIDGE Username: n

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Remove existing concrete transition barrier and install new concrete transition barrier (type I) Remove existing wingwall mounted guardrail post Relocate existing bridge rail post	STATE OF MAINE DEPARTMENT OF TRANSPORTATION	IM-1779(300)E	PIN BRIDGE NO. 6291 17793.00 BRIDGE PLANS
lge Joint Mod. Type 2 T-295 SB	SIGNATTIRE	P.E. NUMBER	
xisting bridge rail post isting concrete transition barrier new concrete transition barrier (type 4)	DATE 03/10 03/10 SIGN		DATE
-295 NOTES: 1. Contractor shall repair areas of concrete deck discretions of deck repairs are undetermined for this bridge. Contractor shall dentify and mark areas for deck repair after removing the wearing surface. Coordinate work with Resident. Payment for deck repair work shall be under the 518 pay items. 2. Contractor shall repair areas of deteriorated granite curb bedding mortar on the deck as required. Locations of deteriorated granite curb bedding mortar are undetermined. (Typ.) ✓ 1-295	PROJ. MANAGER     DGE     DPUL       PROJ. MANAGER     DGE     DFUL       PROJ. MANAGER     DGE       PROJ. MANAGER     DGE       PROJ. MANAGER       PROJ. MANAGER	BERLAND COUNTY DESIGN2-DETALEDZ	PLAN     AND     TRANS.     SECTION     REVISIONS 2     -       REVISIONS 3     -     -
		17 OF 55	



Date:3/26/201

### NOTES:

I. Contractor shall repair areas of concrete deck deterioration as directed by the Resident. Locations of deck repairs are undetermined for this bridge. Contractor shall identify and mark areas for deck repair after removing the wearing surface. Coordinate work with Resident. Payment for deck repair work shall be under the 518 pay items.

2. Contractor shall repair areas of deteriorated granite curb bedding mortar on the deck as required. Locations of deteriorated granite curb bedding mortar are undetermined.(Typ.)

3. Reanchor the sign bridge supports (not shown) into curb and grout void under steel support as directed by Resident. Paid under time and materials.

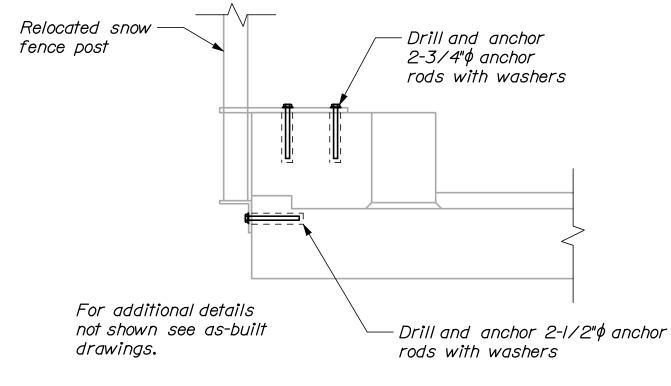
4. After demolishing the existing passing approach transition barrier the exisitng reinforcing steel shall be cut 2" below the demolished surface. The contractor shall chip localized areas of concrete as required to allow the bars to be cut and then fill the depressions with grout to provide a flush surface.

5. Relocate existing bridge rail post and snow fence post and modify snow fencing as required. See snow fence post relocation detail. Incidental to item 526.34.

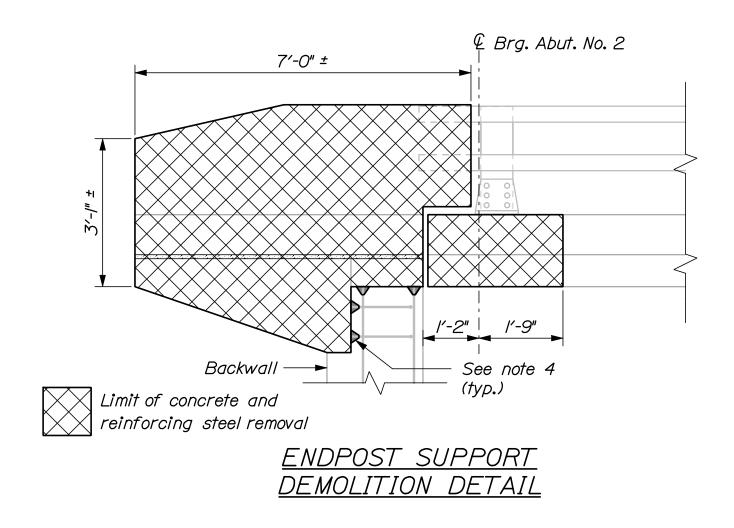
6. Repair areas of damaged curb at departure passing endpost location as directed by The Resident. Payment to be made under Repair of Vertical Surfaces < 7.9 Inches, Item No. 5/8.60.

7. Replace toggle bolts on all type J rail posts per standard detail BDI08-65. Payment by time and materials.

8. Center all splice tubes and secure one side of splice tube to type J bridge rail. Payment by time and materials.







Notch existing curb and recess Terminal Curb Type 2 OR remove existing curb and rebuild with concrete.

Remove existing concrete transition barrier and install new concrete transition barrier (type 3A)

Bridge Joint Mod. Type I

Install new concrete transition barrier (type 3A)

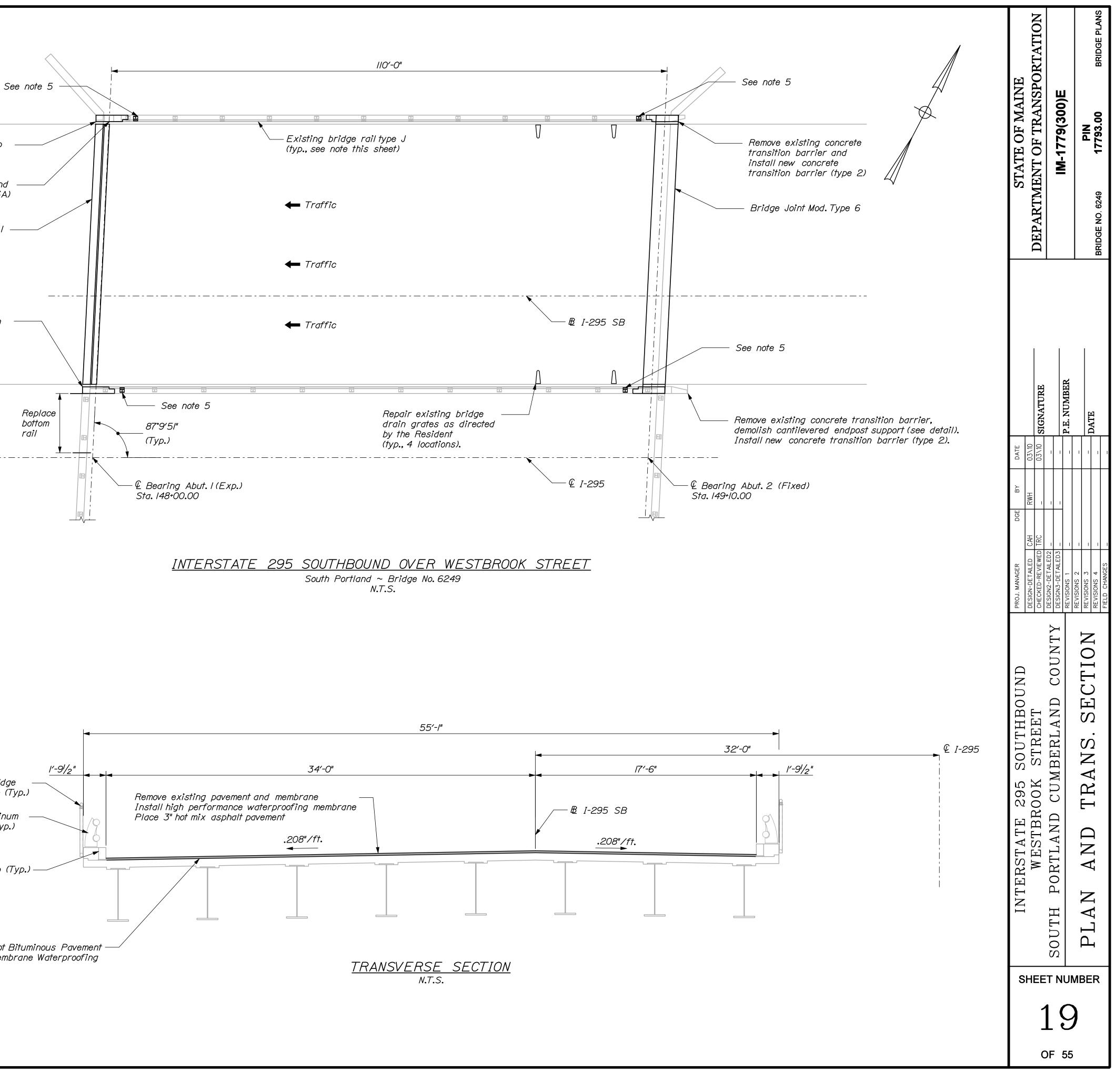
> Replace bottom rail

Existing Bridge Snow Fence (Typ.)

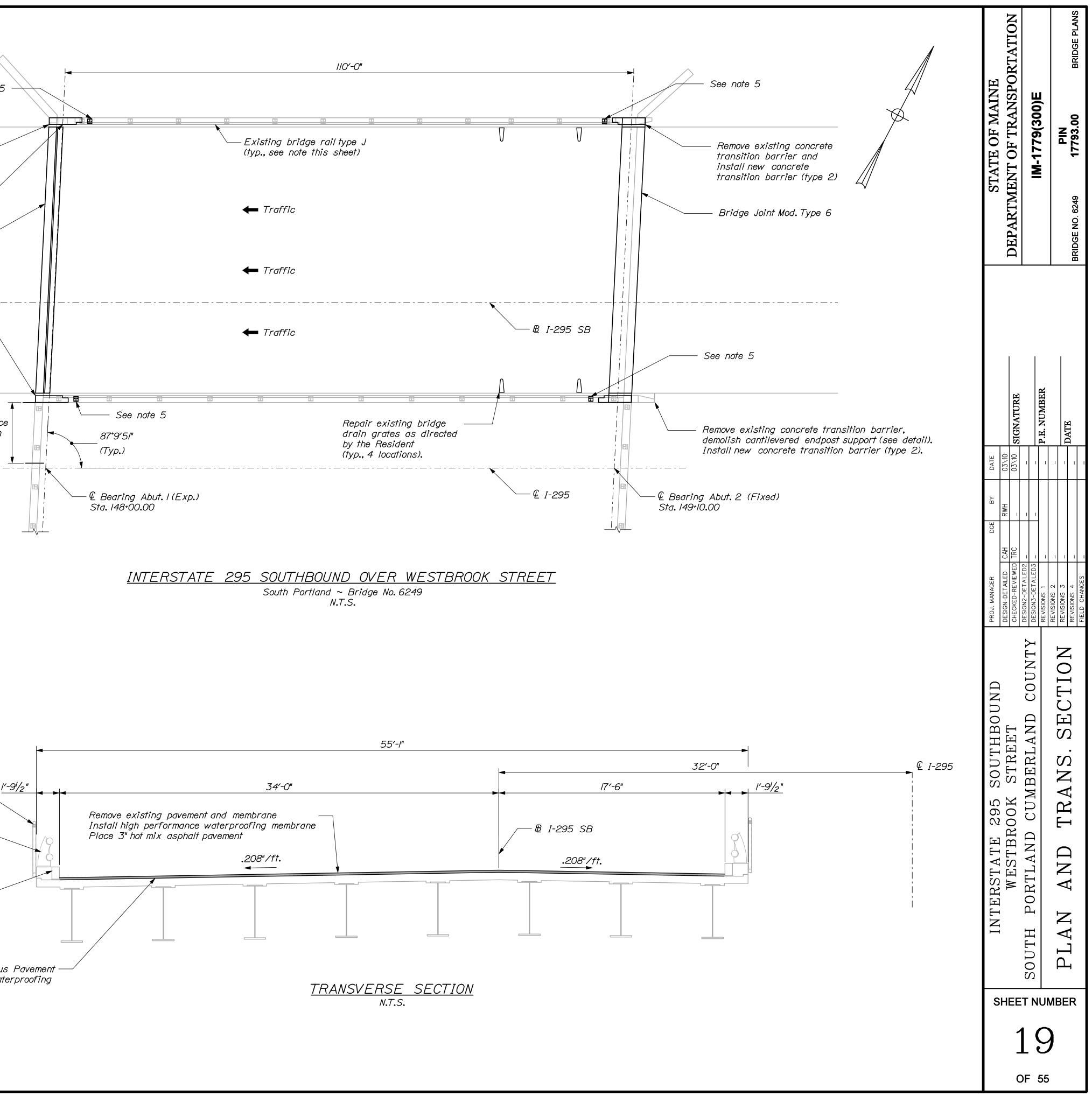
Existing 2 Bar Aluminum Bridge Rail Type J (Typ.)

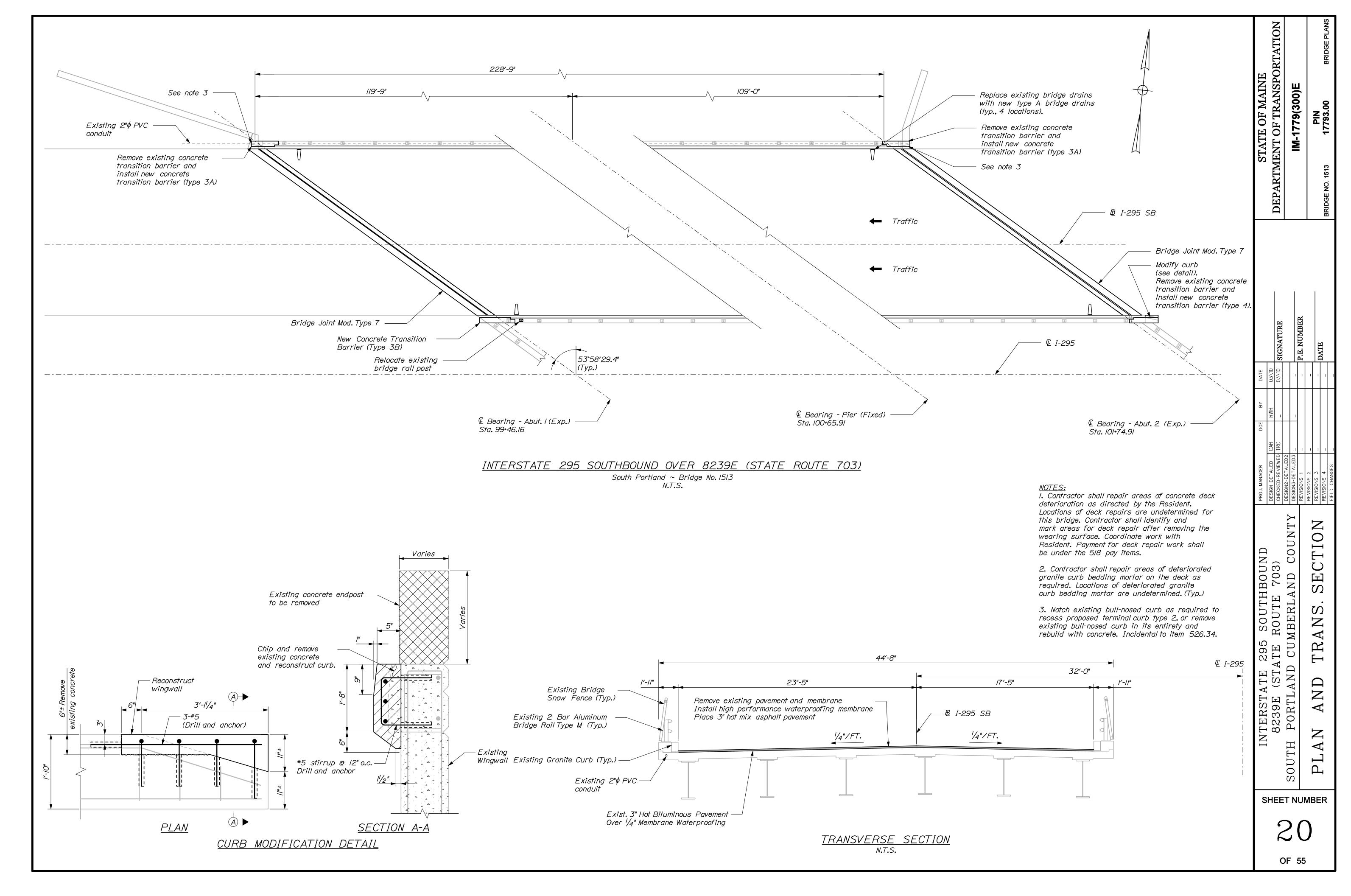
Existing Granite Curb (Typ.)

Exist. 3" Hot Bituminous Pavement Over 1/4" Membrane Waterproofing







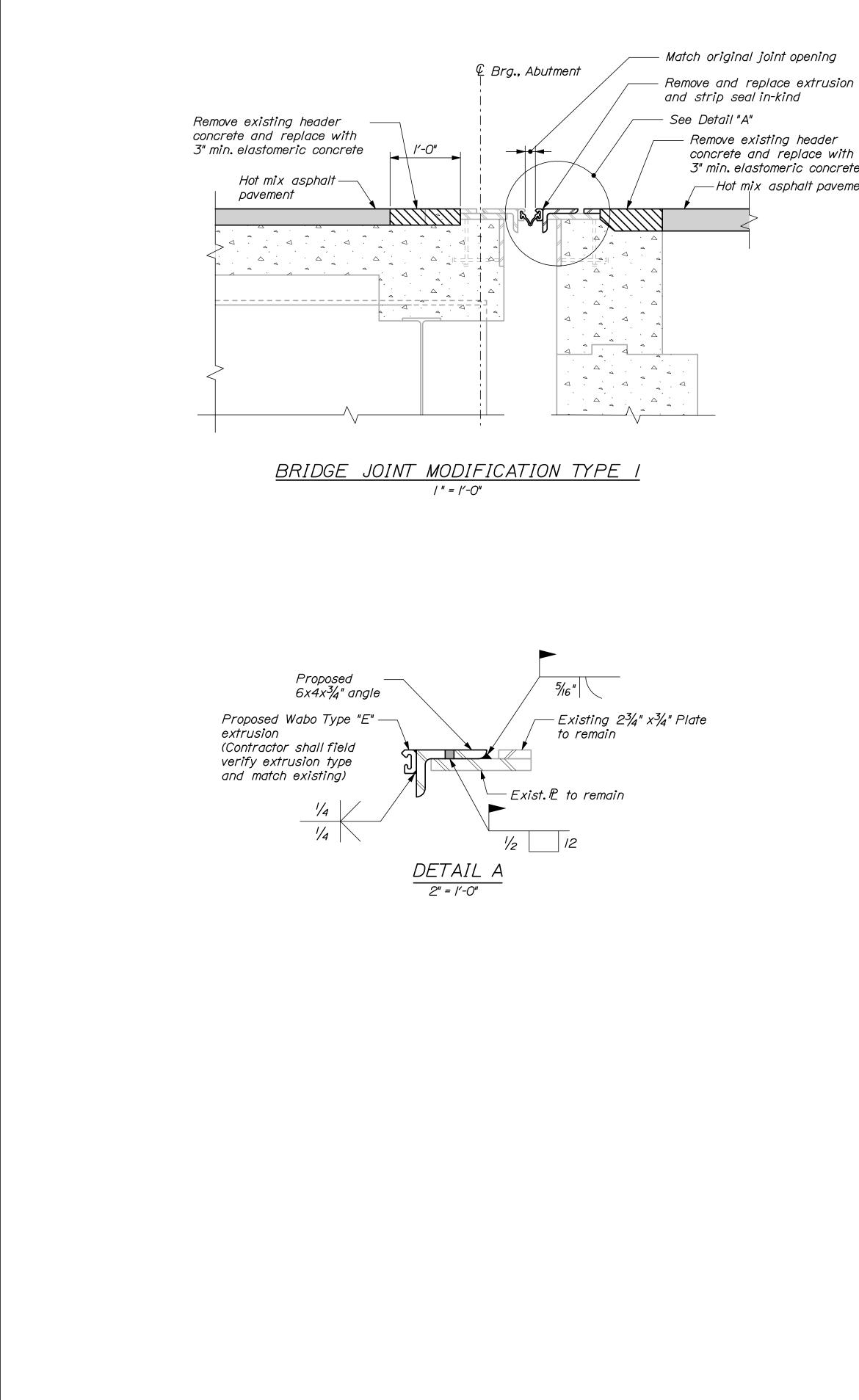


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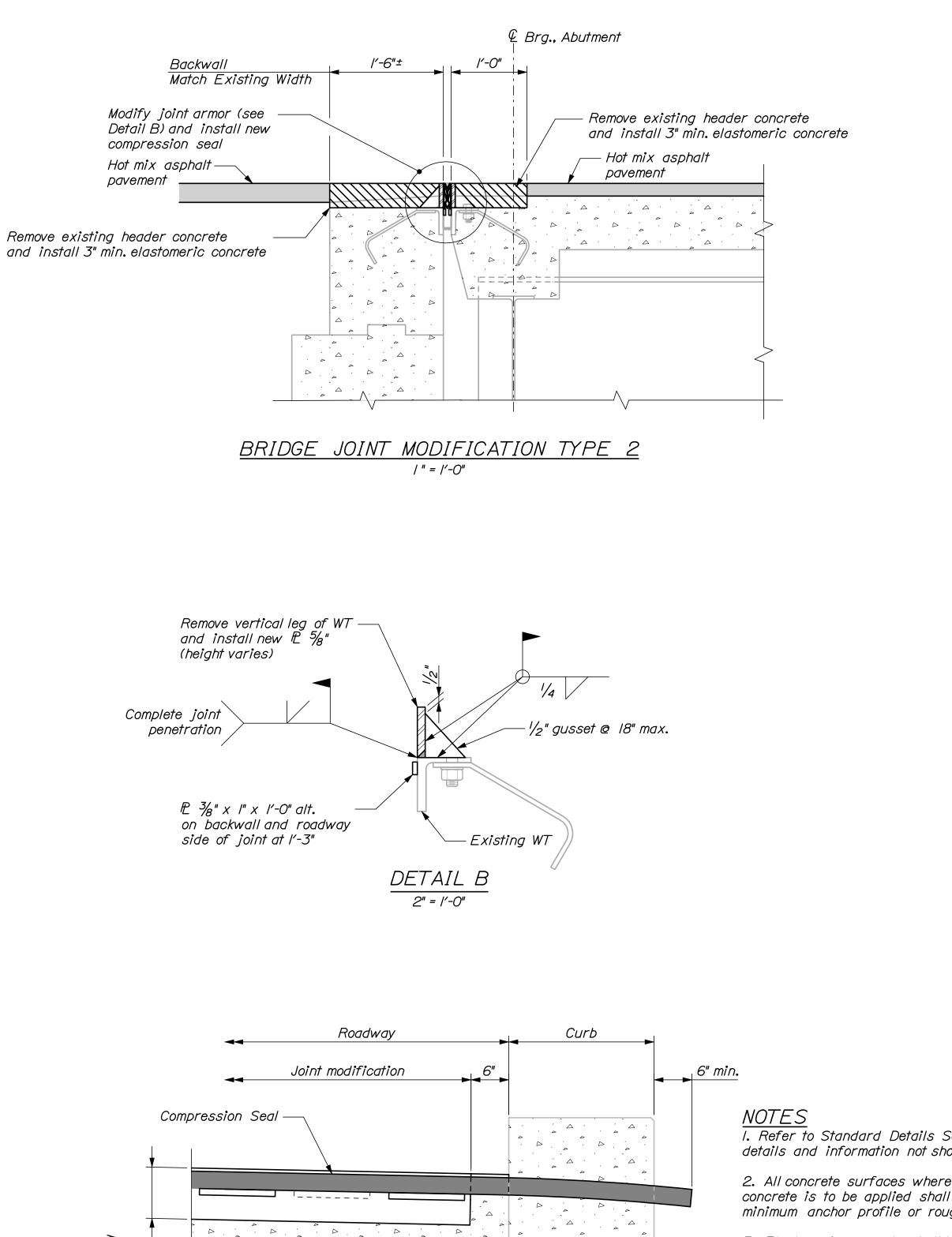
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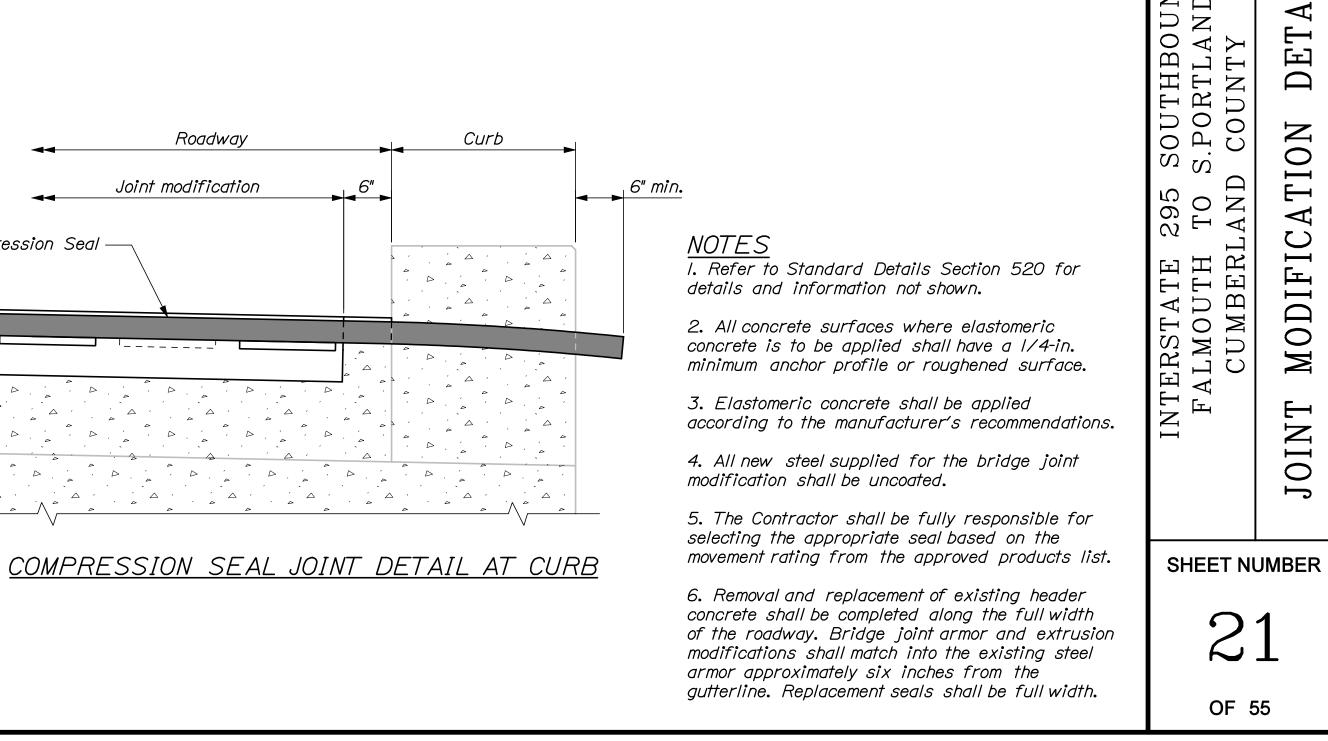


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3" min. elastomeric concrete —Hot mix asphalt pavement



Modifi Joint Eleme



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STATE OF MAINE DEPARTMENT OF TRANSPORTA1

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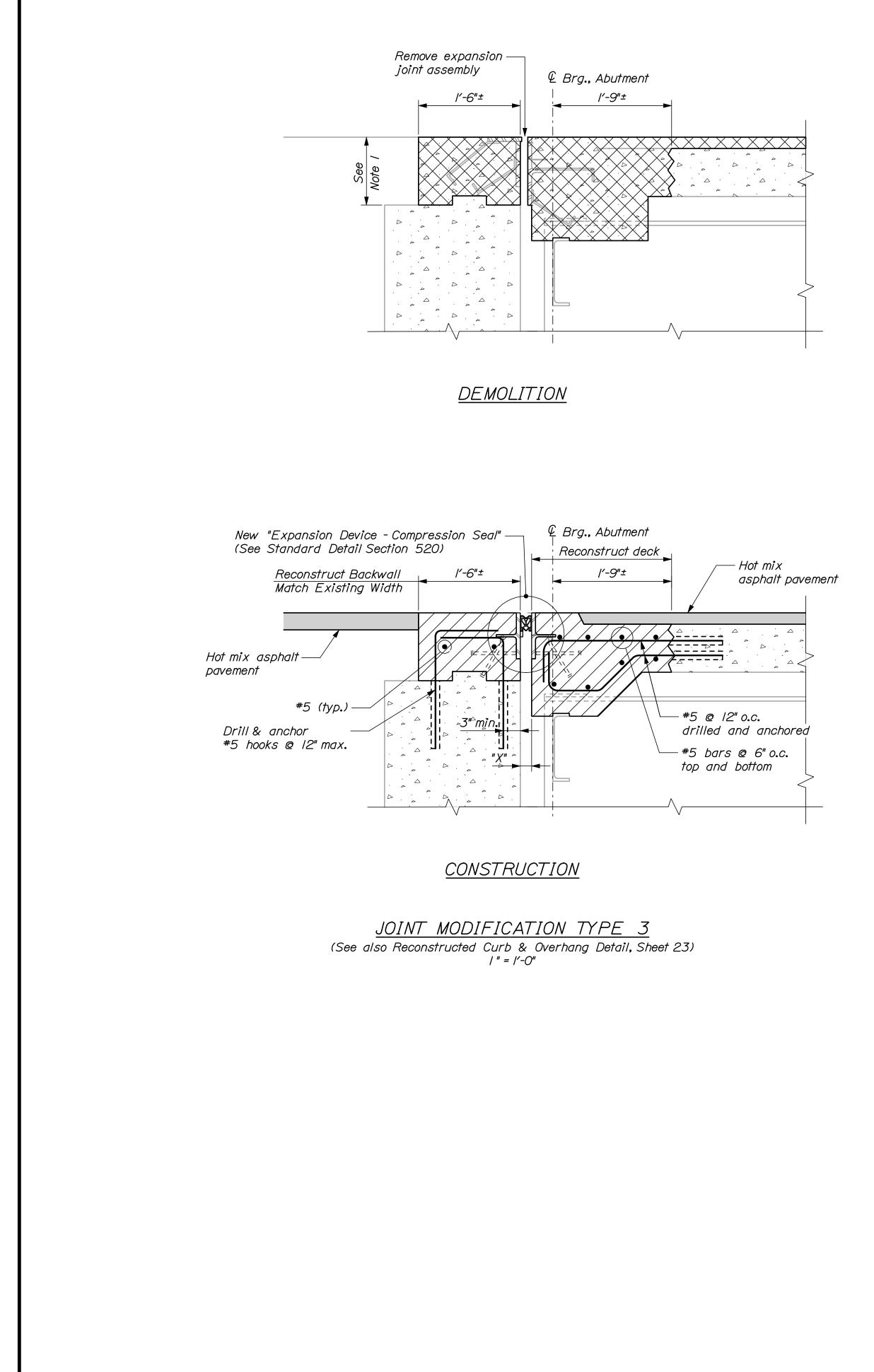
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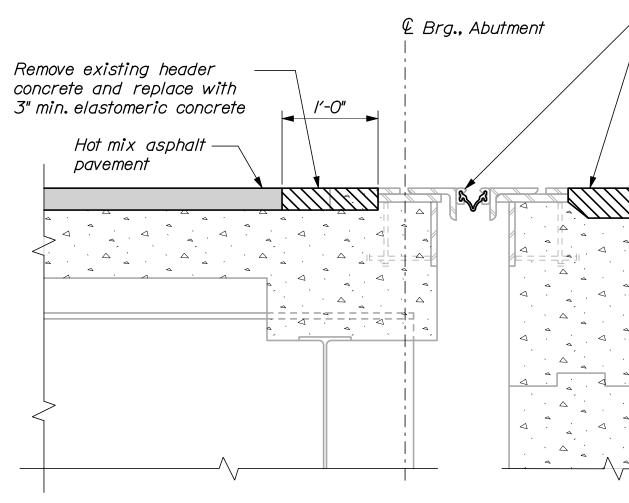
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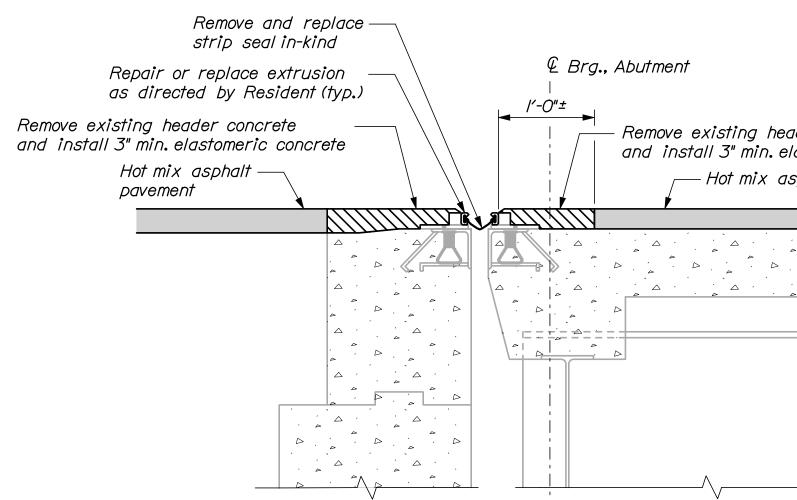
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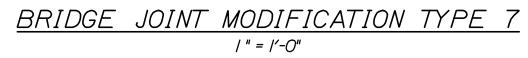
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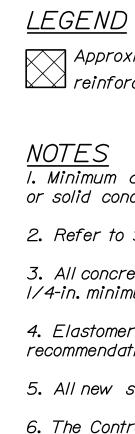


<sup>8239</sup>E (STATE ROUTE 703) OVERPASS



ST. JOHN, ST. JAMES AND PTRR (ST. JOHN) OVER

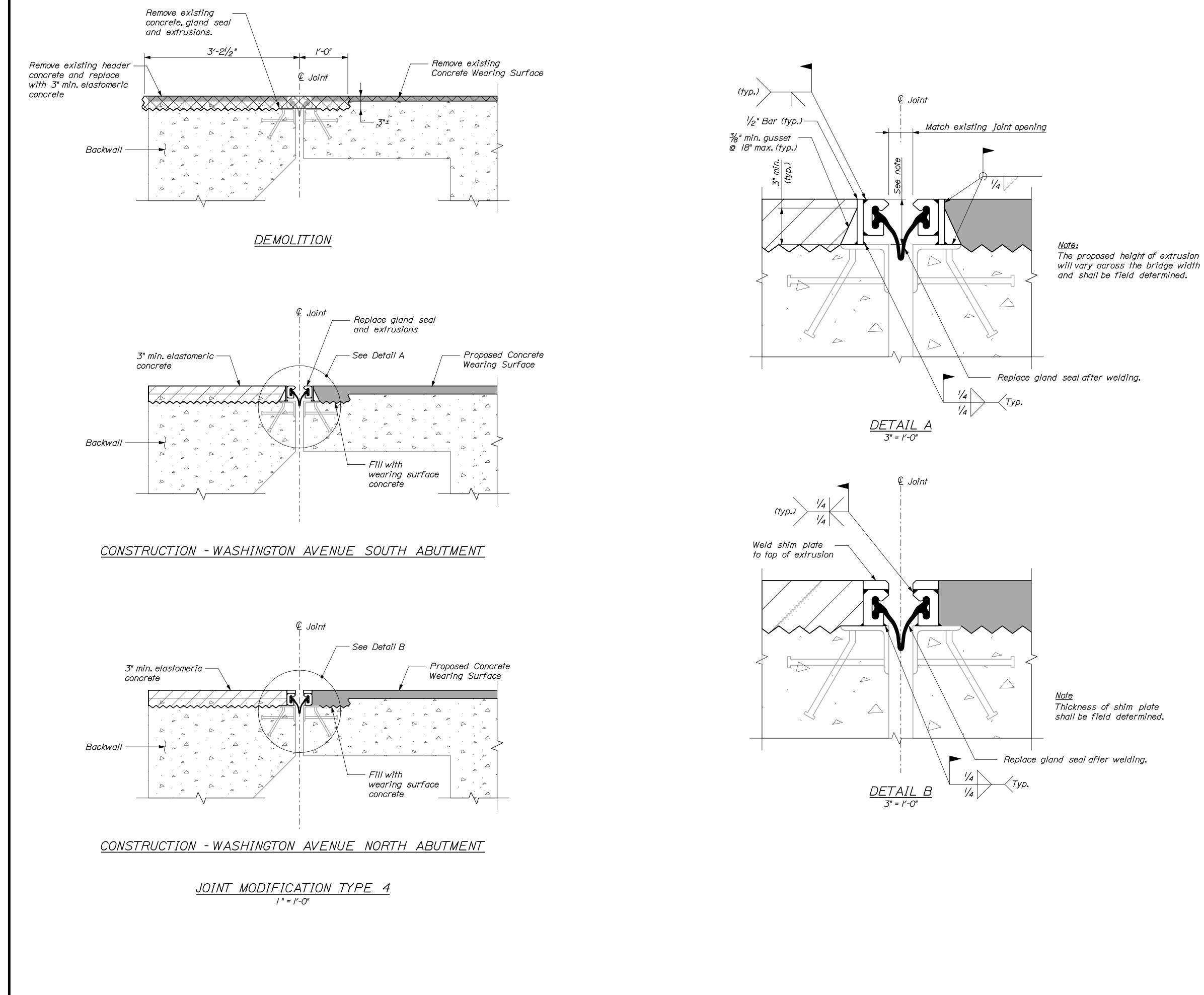




6. The Contr based on the

7. Removal a the full width shall match gutterline. R

Remove and replace strip sedi in-kind Remove existing header concrete and replace with 3" min. elastomeric concrete Hot mix asphalt pavement	STATE OF MAINE DEPARTMENT OF TRANSPORTATION	IM-1779(300)E	PIN       BRIDGE NO. Varies     17793.00
ader concrete elastomeric concrete asphalt pavement	PROJ. MANAGERDGEBYDATEDESIGN-DETAILEDCHHRWH03/10CHECKED-REVIEWEDTRC03/10	DESIGN2-DETAILED2	2
RPASSES	INTERSTATE 295 SOUTHBOUND FALMOUTH TO S.PORTLAND	CUMBERLAND COUNT	JOINT MODIFICATION DETAILS II
ractor shall be fully responsible for selecting the appropriate seal the movement rating from the approved products list. and replacement of existing header concrete shall be completed along h of the roadway. Bridge joint armor and extrusion modifications into the existing steel armor approximately six inches from the			JMBER
Replacement seals shall be full width.	(	OF 5	5



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<u>LEGEND</u>

Approximate limit of concrete and reinforcing steel removal

<u>NOTES</u> I. Refer to Standard Details Section 520 for details and information not shown.

2. All concrete surfaces where elastomeric concrete is to be applied shall have a 1/4-in. minimum anchor profile or roughened surface.

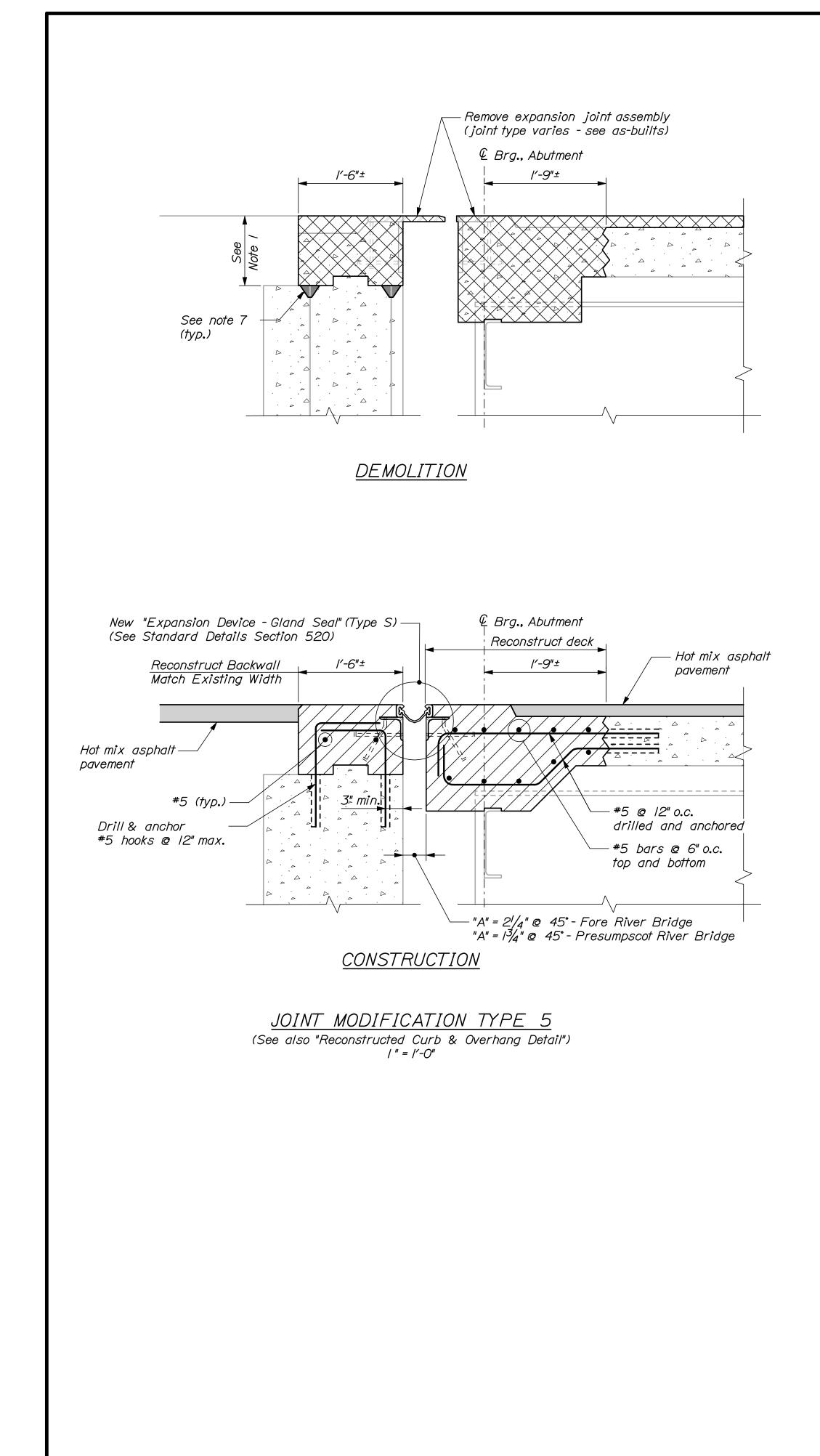
3. Elastomeric concrete shall be applied according to the manufacturer's recommendations.

4. All new steel supplied for the bridge joint modification shall be uncoated.

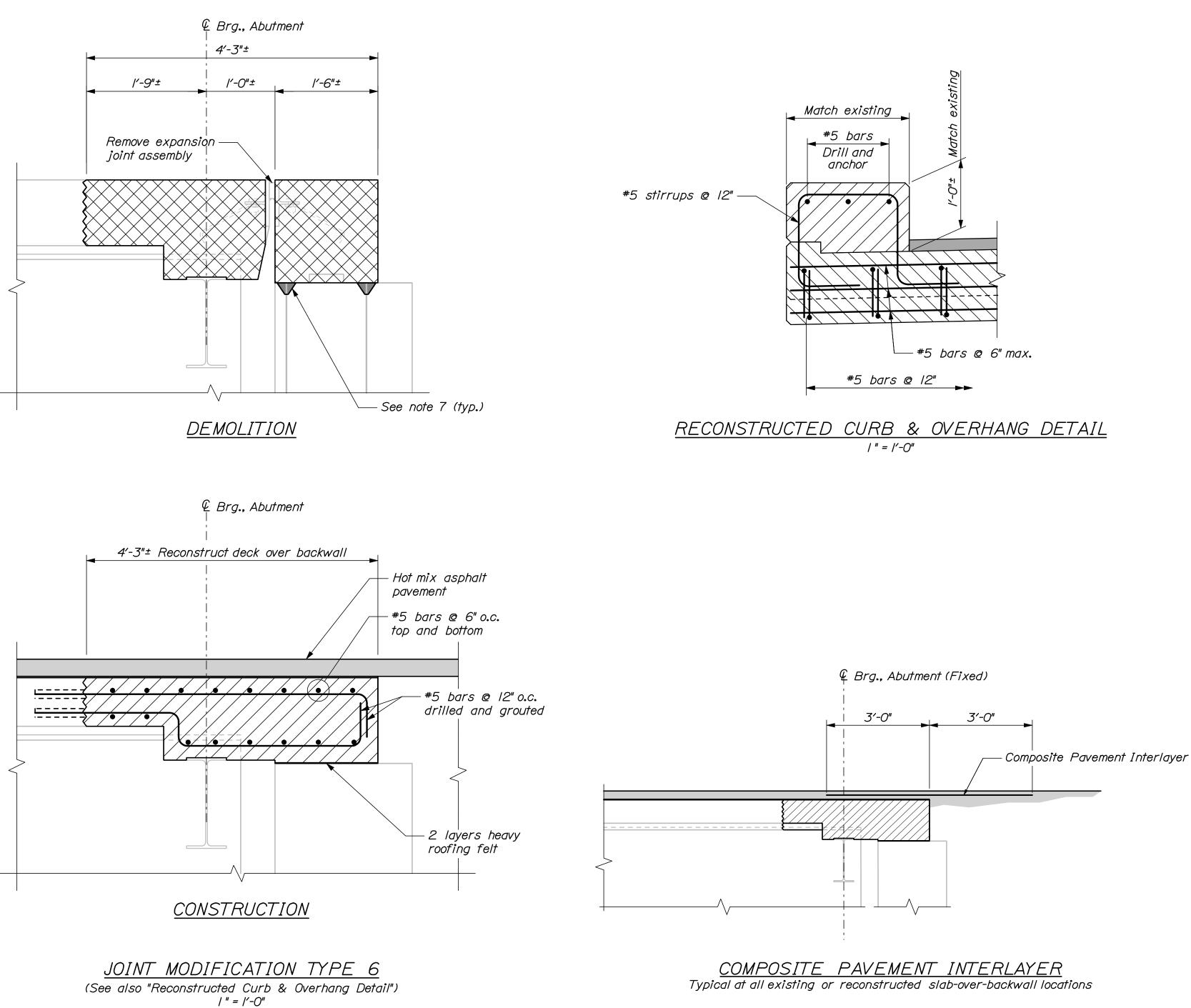
5. The Contractor shall be fully responsible for selecting the appropriate seal based on the movement rating from the approved products list.

6. Removal and replacement of existing header concrete shall be completed along the full width of the roadway. Bridge joint armor and extrusion modifications shall extend to the limits described on sheet 9. Replacement seals shall be full width.

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# <u>LEGEND</u>



Approximate limit of concrete and reinforcing steel removal

## NOTES

I. Minimum depth of backwall reconstruction shall be to backwall construction joint or solid concrete, whichever is greater. 2. Refer to Standard Details Section 520 for details and information not shown.

3. All concrete surfaces where elastomeric concrete is to be applied shall have a 1/4-in. minimum anchor profile or roughened surface.

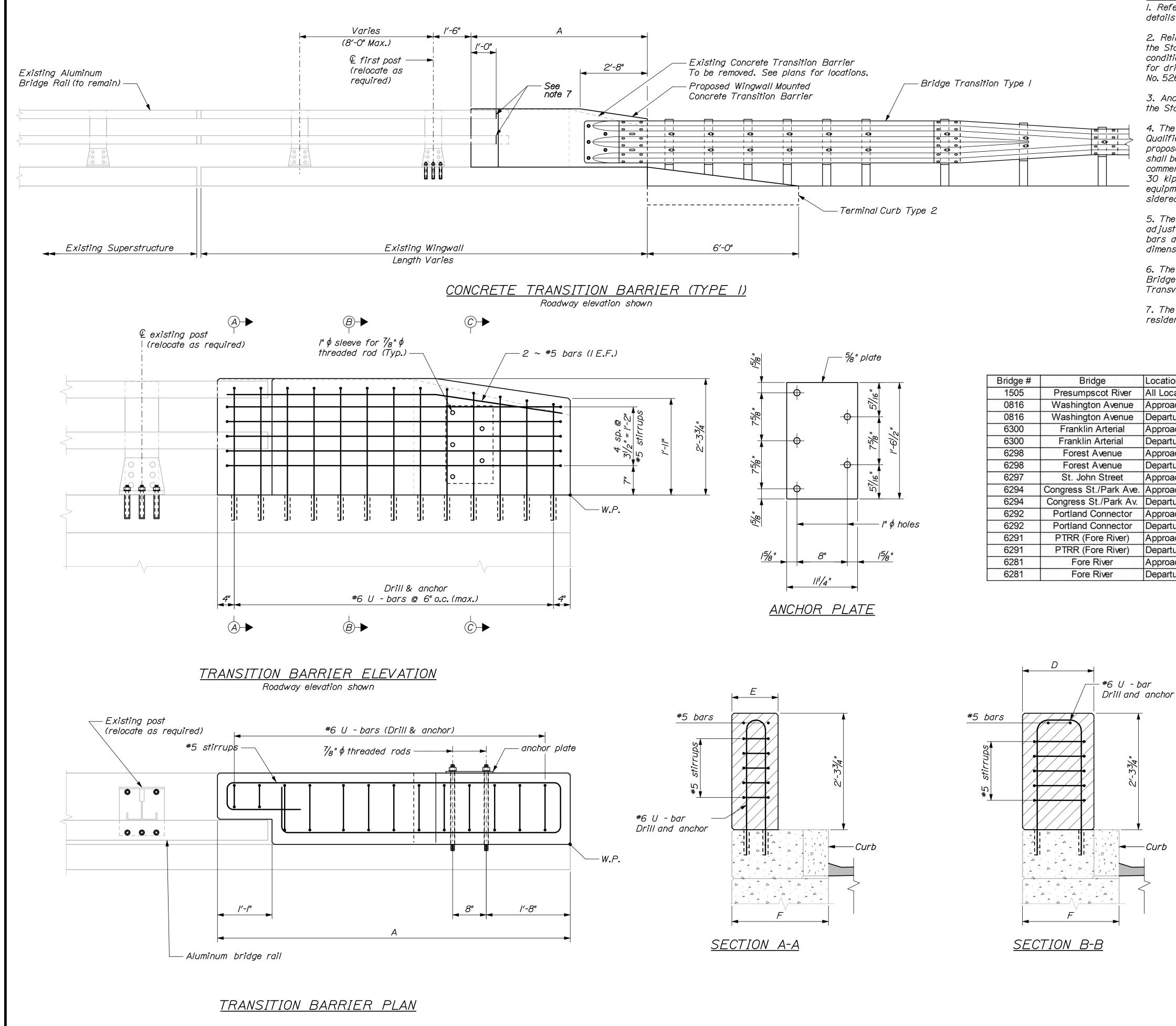
4. Elastomeric concrete shall be applied according to the manufacturer's recommendations.

5. All new steel supplied for the bridge joint modification shall be uncoated.

6. The Contractor shall be fully responsible for selecting the appropriate seal based on the movement rating from the approved products list.

7. After demolishing the existing backwall concrete the exisitng reinforcing steel shall be cut 2" below the demolished surface. The contractor shall chip localized areas of concrete as required to allow the bars to be cut and then fill the depressions with grout to provide a flush surface. Following demolition of the backwall concrete the top of backwall surface shall recieve a thin layer of patching mortar to provide a smooth uniform surface on which to cast the slab-over-backwall. The patching mortar shall be selected from Maine DOT's qualified products list.

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Bridge #	Bridge	Location	A	D	E	F
1505	Presumpscot River	All Locations	7'-0"	1'-4"	11"	1'-10"
0816	Washington Avenue	Approach Travel Lane	6'-10"	1'-4"	11"	1'-10"
0816	Washington Avenue	Departure Travel Lane	6'-9"	1'-4"	11"	1'-10"
6300	Franklin Arterial	Approach Travel Lane	6'-5"	1'-4"	11"	1'-11"
6300	Franklin Arterial	Departure Travel Lane	6'-6"	1'-4"	11"	1'-11"
6298	Forest Avenue	Approach Travel Lane	6'-5"	1'-4"	11"	1'-11"
6298	Forest Avenue	Departure Travel Lane	6'-4"	1'-4"	11"	1'-11"
6297	St. John Street	Approach Travel Lane	6'-6"	1'-3 1/2"	10 1/2"	1'-9 1/2
6294	Congress St./Park Ave.	Approach Travel Lane	6'-2"	1'-3 1/2"	10 1/2"	1'-9 1/2
6294	Congress St./Park Av.	Departure Travel Lane	6'-4"	1'-3 1/2"	10 1/2"	1'-9 1/2
6292	Portland Connector	Approach Travel Lane	7'-9"	1'-4"	11"	1'-11"
6292	Portland Connector	Departure Travel Lane	7'-11"	1'-4"	11"	1'-11"
6291	PTRR (Fore River)	Approach Travel Lane	7'-9"	1'-3 1/2"	10 1/2"	1'-9 1/2
6291	PTRR (Fore River)	Departure Travel Lane	5'-7"	1'-3 1/2"	10 1/2"	1'-9 1/2
6281	Fore River	Approach Travel Lane	8'-0"	1'-3 1/2"	10 1/2"	1'-9 1/2
6281	Fore River	Departure Travel Lane	8'-0"	1'-3 1/2"	10 1/2"	1'-9 1/2

CONCRETE TRANSITION BARRIER NOTES I. Refer to Standard Details Section 526 - Concrete Transition Barrier for details and information not shown.

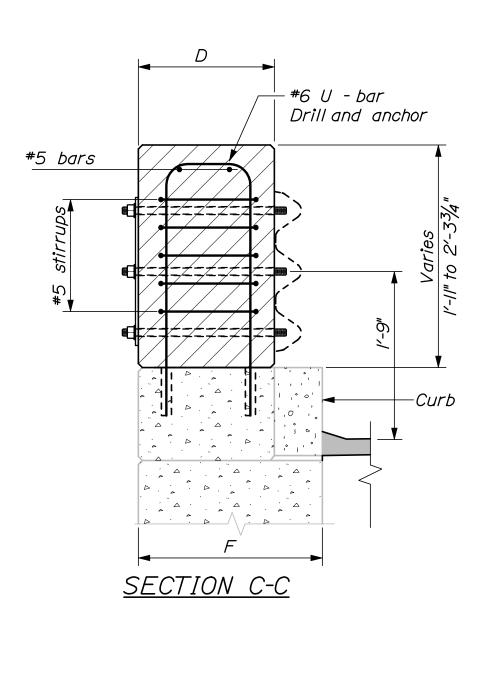
2. Reinforcing steel for the Transition Barriers is based on details shown in the Standard Details. Reinforcing steel shall be modified to fit the details and conditions shown on the plans. Payment for modifying reinforcing steel and for drilling and anchoring bars as shown will be considered incidental to Item No. 526.34, Permanent Concrete Transition Barrier.

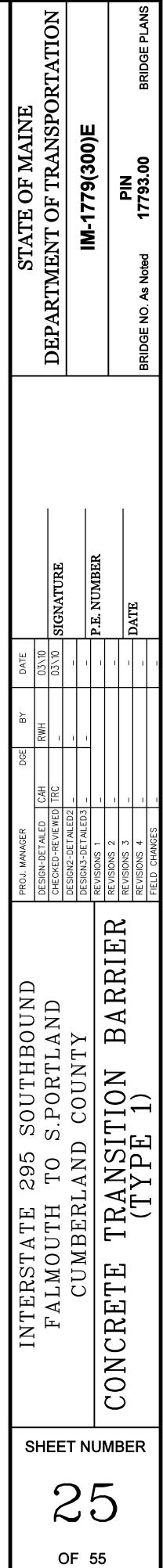
3. Anchor plates and threaded rods shall be galvanized in accordance with the Standard Specifications and the Standard Details.

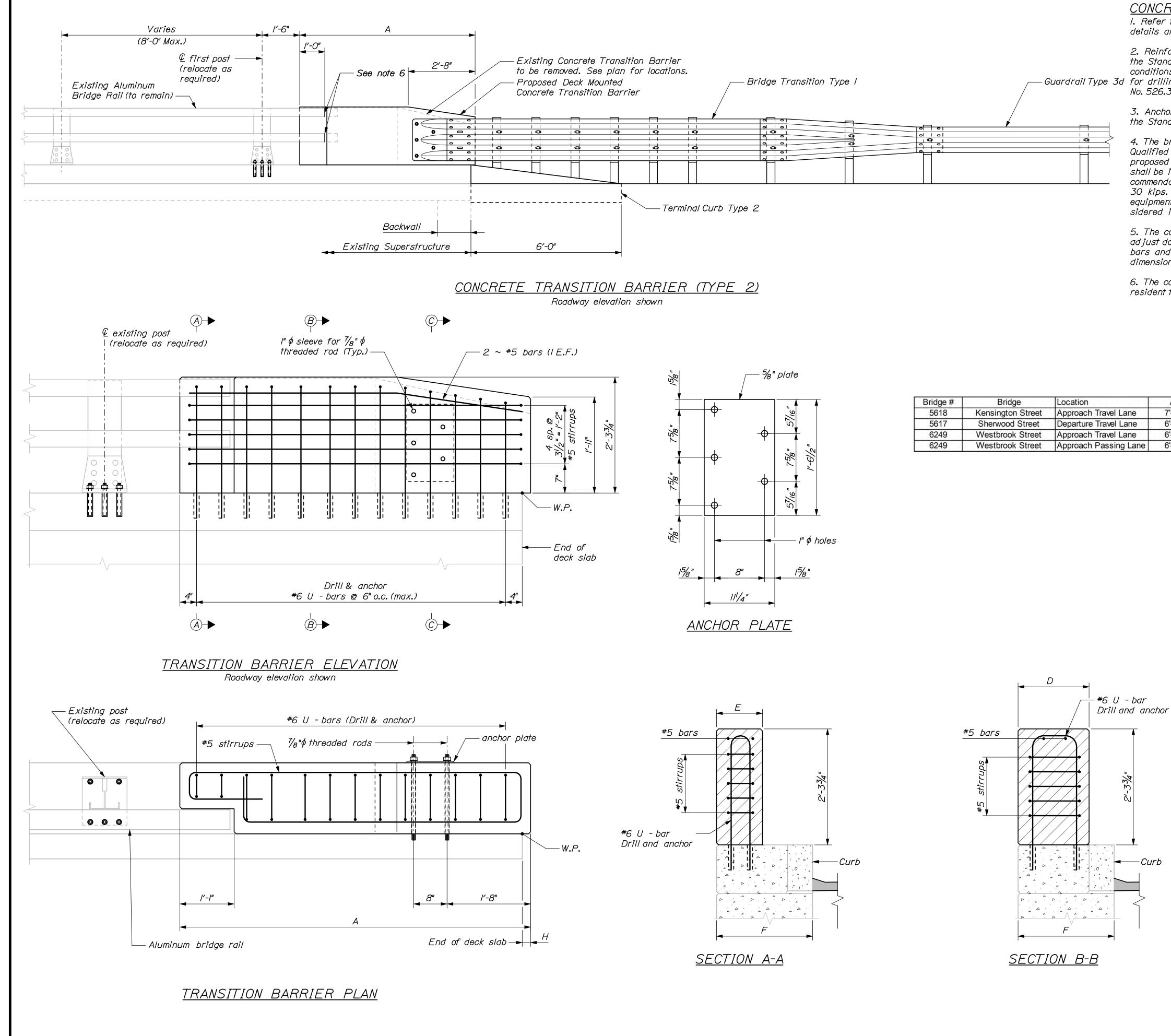
4. The bridge rail post bolt anchorage system shall be from MaineDOT's Qualified Products List or an approved equal. The Contractor shall submit the proposed system to the Resident for review prior to use. The bolt anchorages shall be installed in strict accordance with the selected manufacturer's recommendations. The anchor bolts shall have an ultimate tension capacity of 30 kips. Payment for bridge rail post relocation and associated materials, equipment, labor and incidentals necessary to complete the work will be considered incidental to Item No. 526.34, Permanent Concrete Transition Barrier.

5. The contractor shall locate existing curb reinforcing steel and conduit and adjust dowel and bridge rail post anchor stud locations to avoid cutting existing bars and damaging existing electrical conduit. Any adjustments from plan dimensions shall be approved by the Resident.

6. The contractor shall reconstruct the existing curb at the Presumpscot River Bridge prior to completing the required endpost modifications. See Plan and Transverse Section sheet for details.







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Bridge #	Bridge	Location	А	D	E	F	н
5618	Kensington Street	Approach Travel Lane	7'-4"	1'-4"	11"	1'-10"	11"
5617	Sherwood Street	Departure Travel Lane	6'-9"	1'-4"	11"	1'-10"	0"
6249	Westbrook Street	Approach Travel Lane	6'-4"	1'-3 1/2"	9 1/2"	1'-9 1/2"	0"
6249	Westbrook Street	Approach Passing Lane	6'-4"	1'-3 1/2"	9 1/2"	1'-9 1/2"	0"

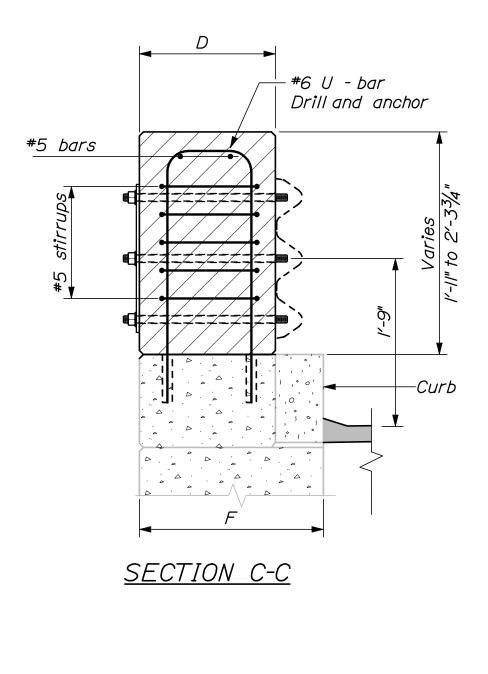
CONCRETE TRANSITION BARRIER NOTES I. Refer to Standard Details Section 526 - Concrete Transition Barrier for details and information not shown.

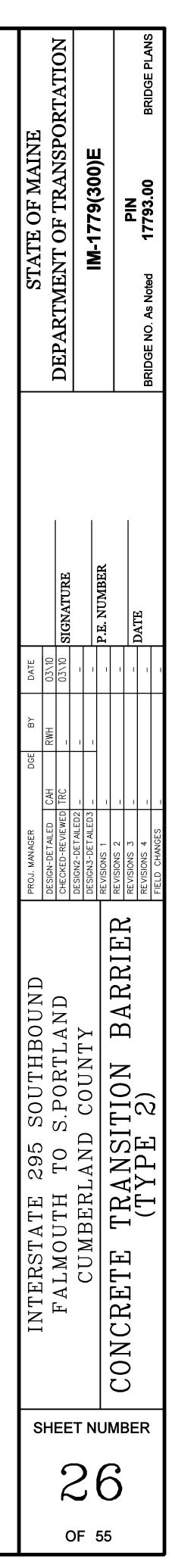
2. Reinforcing steel for the Transition Barriers is based on details shown in the Standard Details. Reinforcing steel shall be modified to fit the details and conditions shown on the plans. Payment for modifying reinforcing steel and - Guardrail Type 3d for drilling and anchoring bars as shown will be considered incidental to Item No. 526.34, Permanent Concrete Transition Barrier.

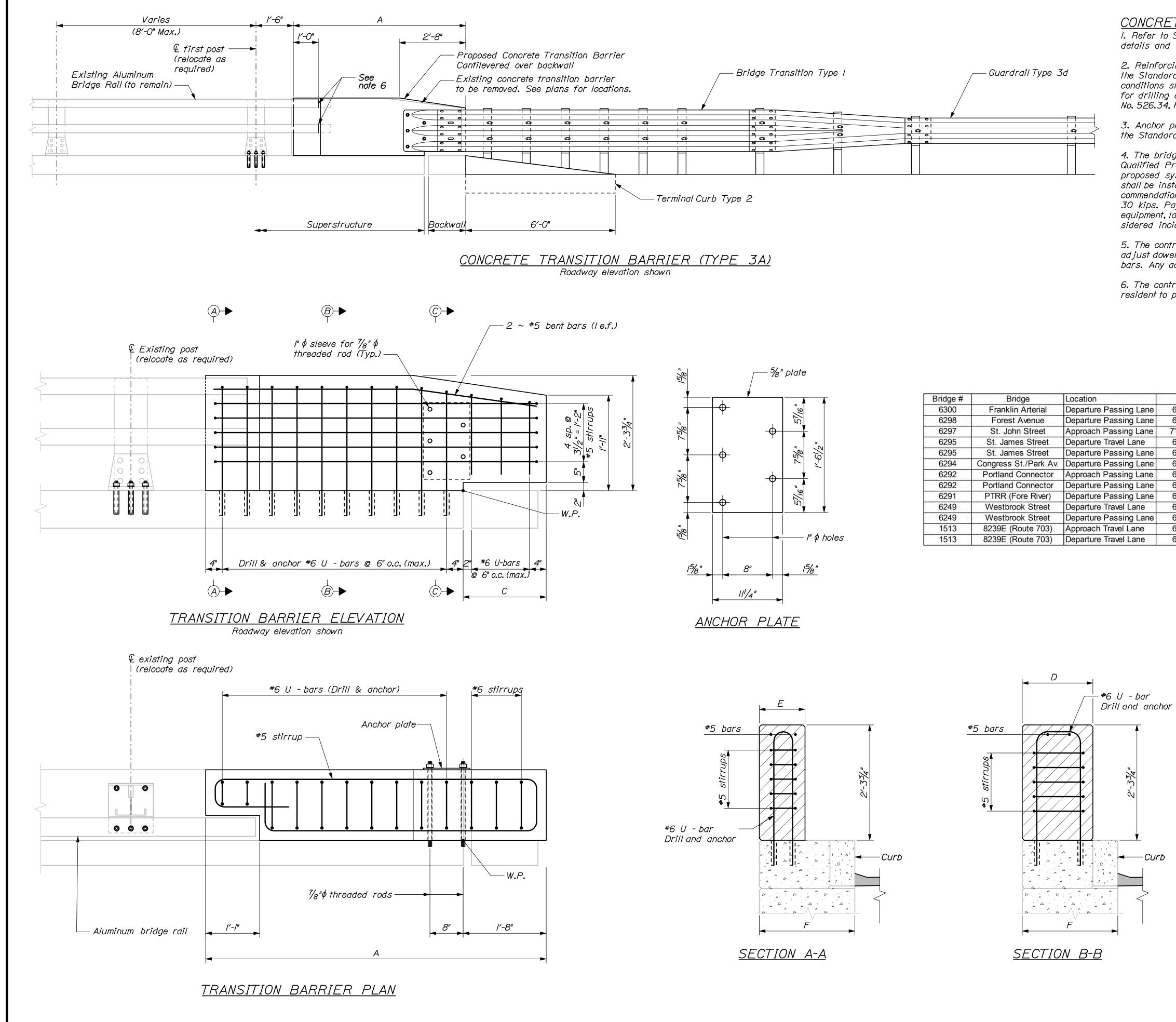
> 3. Anchor plates and threaded rods shall be galvanized in accordance with the Standard Specifications and the Standard Details.

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5. The contractor shall locate existing curb reinforcing steel and conduit and adjust dowel and bridge rail post anchor stud locations to avoid cutting existing bars and damaging existing electrical conduit. Any adjustments from plan dimensions shall be approved by the Resident.







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Bridge #	Bridge	Location	А	C	D	E	F
6300	Franklin Arterial	Departure Passing Lane	6'-4"	1'11"	1'-4"	11"	1'-11"
6298	Forest Avenue	Departure Passing Lane	6'-4"	2'-0"	1'-4"	11"	1'-11"
6297	St. John Street	Approach Passing Lane	7'-10"	2'-0"	1'-3 1/2"	10 1/2"	1'-9 1/2"
6295	St. James Street	Departure Travel Lane	6'-4"	1'-7"	1'-4"	11"	1'-11"
6295	St. James Street	Departure Passing Lane	6'-4"	2'-3"	1'-4"	11"	1'-11"
6294	Congress St./Park Av.	Departure Passing Lane	6'-4"	1'-8"	1'-3 1/2"	10 1/2"	1'-9 1/2"
6292	Portland Connector	Approach Passing Lane	6'-4"	1'-9"	1'-4"	11"	1'-11"
6292	Portland Connector	Departure Passing Lane	6'-4"	2'-3"	1'-4"	11"	1'-11"
6291	PTRR (Fore River)	Departure Passing Lane	6'-4"	2'-2"	1'-3 1/2"	10 1/2"	1'-9 1/2"
6249	Westbrook Street	Departure Travel Lane	6'-4"	1'-9"	1'-3 1/2"	9 1/2"	1'-9 1/2"
6249	Westbrook Street	Departure Passing Lane	6'-4"	1'-10"	1'-3 1/2"	9 1/2"	1'-9 1/2"
1513	8239E (Route 703)	Approach Travel Lane	6'-9"	2'-1"	1'-4"	11"	1'-11"
1513	8239E (Route 703)	Departure Travel Lane	6'-8"	2'-1"	1'-4"	11"	1'-11"

## CONCRETE TRANSITION BARRIER NOTES

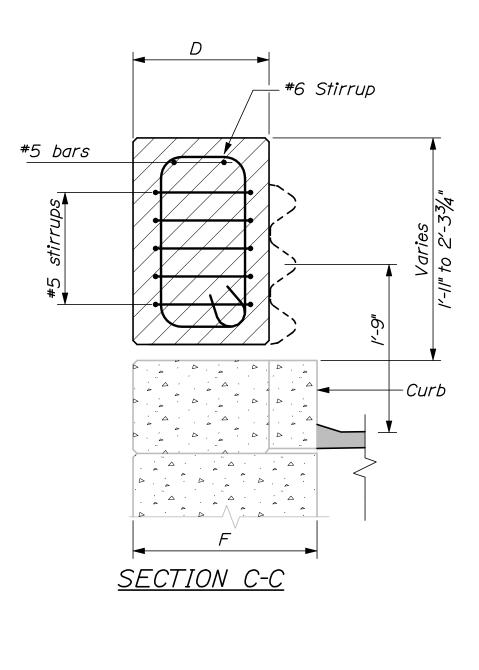
I. Refer to Standard Details Section 526 - Concrete Transition Barrier for details and information not shown.

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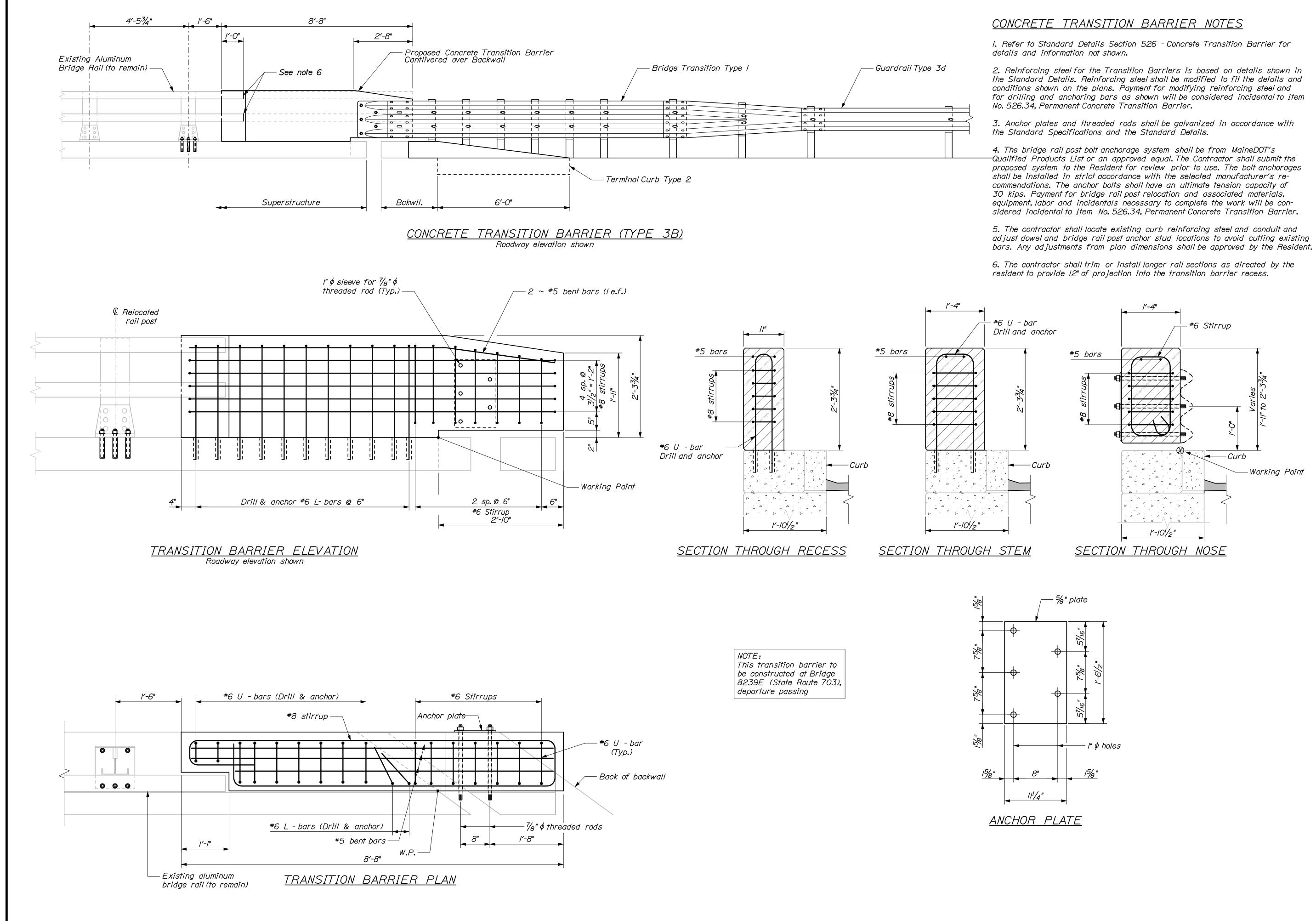
3. Anchor plates and threaded rods shall be galvanized in accordance with the Standard Specifications and the Standard Details.

4. The bridge rail post bolt anchorage system shall be from MaineDOT's Qualified Products List or an approved equal. The Contractor shall submit the proposed system to the Resident for review prior to use. The bolt anchorages shall be installed in strict accordance with the selected manufacturer's recommendations. The anchor bolts shall have an ultimate tension capacity of 30 kips. Payment for bridge rail post relocation and associated materials, equipment, labor and incidentals necessary to complete the work will be con-sidered incidental to Item No. 526.34, Permanent Concrete Transition Barrier.

5. The contractor shall locate existing curb reinforcing steel and conduit and adjust dowel and bridge rail post anchor stud locations to avoid cutting existing bars. Any adjustments from plan dimensions shall be approved by the Resident.

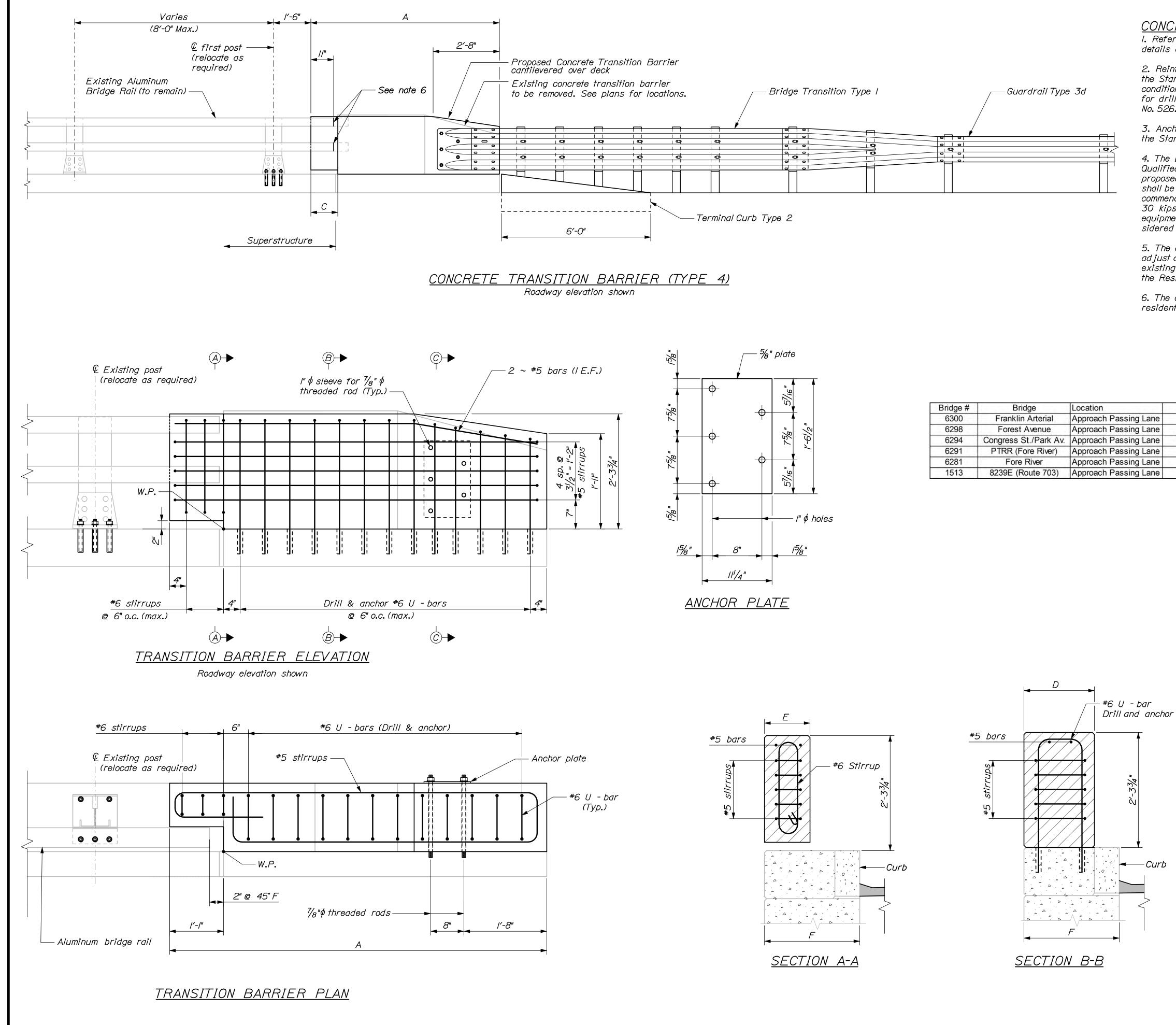


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Bridge #	Bridge	Location	А	С	D	E	F
6300	Franklin Arterial	Approach Passing Lane	6'-7"	1'-11"	1'-4"	11"	1'-11"
6298	Forest Avenue	Approach Passing Lane	8'-1"	1'-8"	1'-4"	11"	1'-11"
6294	Congress St./Park Av.	Approach Passing Lane	6'-11"	1'-2"	1'-3 1/2"	10 1/2"	1'-9 1/2"
6291	PTRR (Fore River)	Approach Passing Lane	6'-4"	1'-2"	1'-3 1/2"	10 1/2"	1'-9 1/2"
6281	Fore River	Approach Passing Lane	7'-0"	1'-4"	1'-3 1/2"	10 1/2"	1'-9 1/2"
1513	8239E (Route 703)	Approach Passing Lane	7'-1"	6"	1'-4"	11"	1'-11"

# CONCRETE TRANSITION BARRIER NOTES

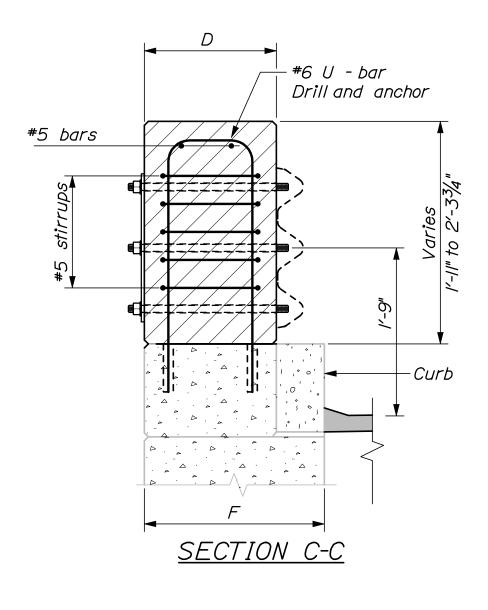
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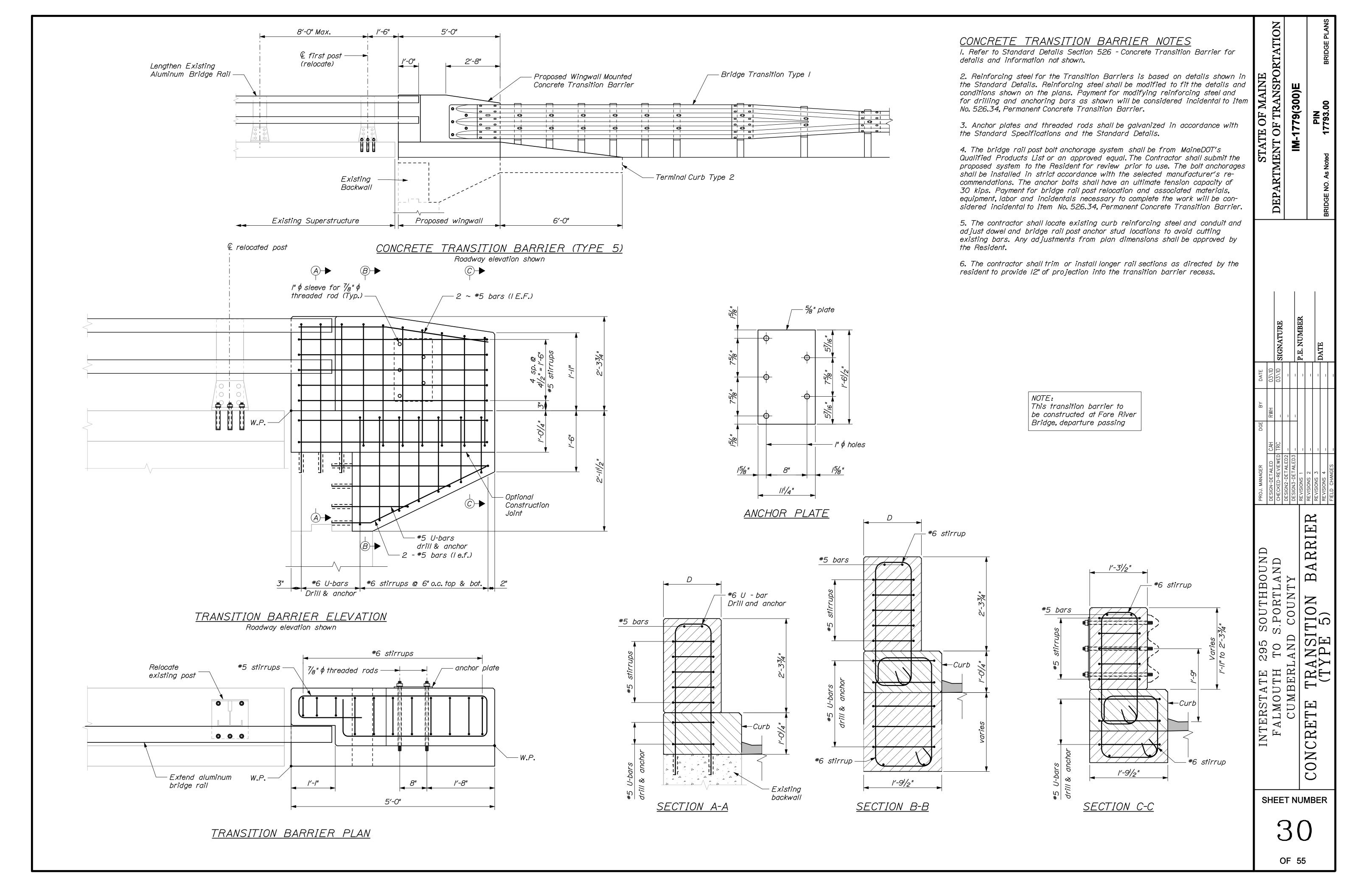
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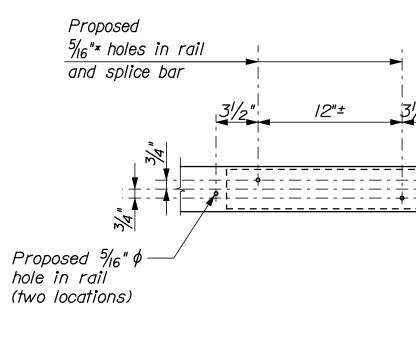


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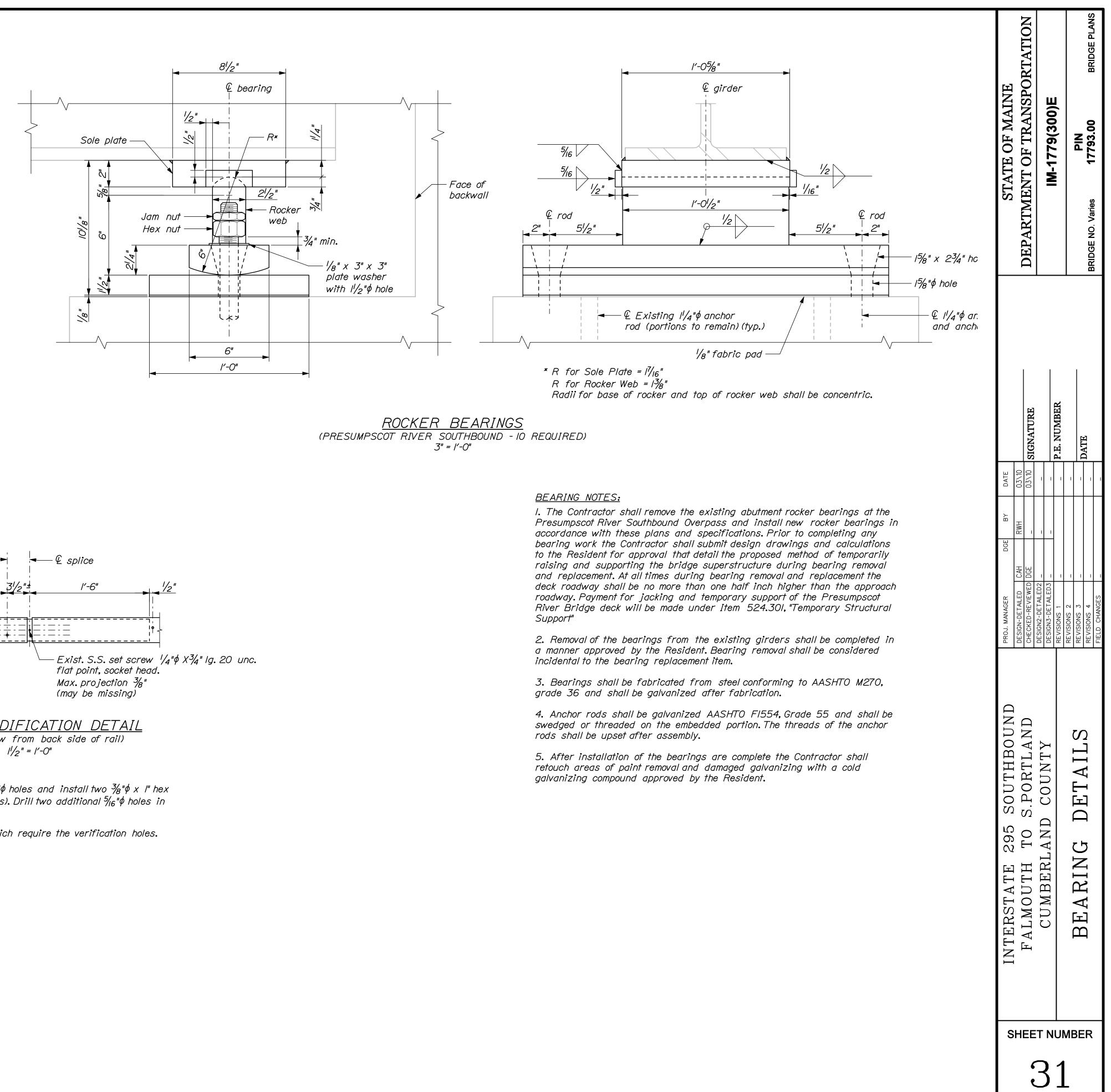
SPLICE MODIFICATION NOTES:

I. Recenter existing splice bar and drill two  $\frac{5}{16}$ " $\phi$  holes and install two  $\frac{3}{6}$ " $\phi$  x I" hex washer head tapping screws, type F (stainless). Drill two additional  $\frac{5}{16}$ "  $\phi$  holes in rail for splice location verification.

2. Only 2 splice bars need to be recentered which require the verification holes.

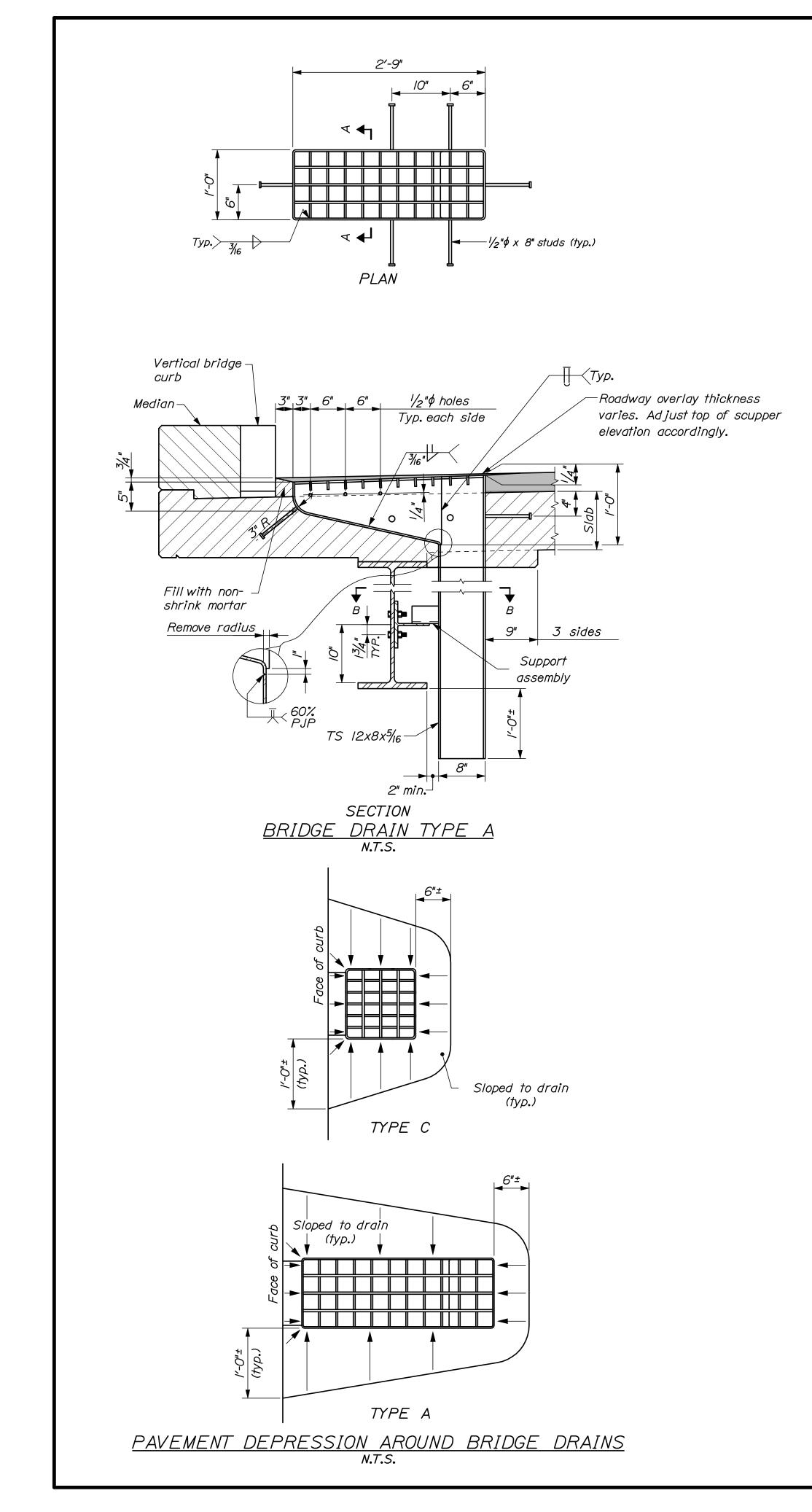
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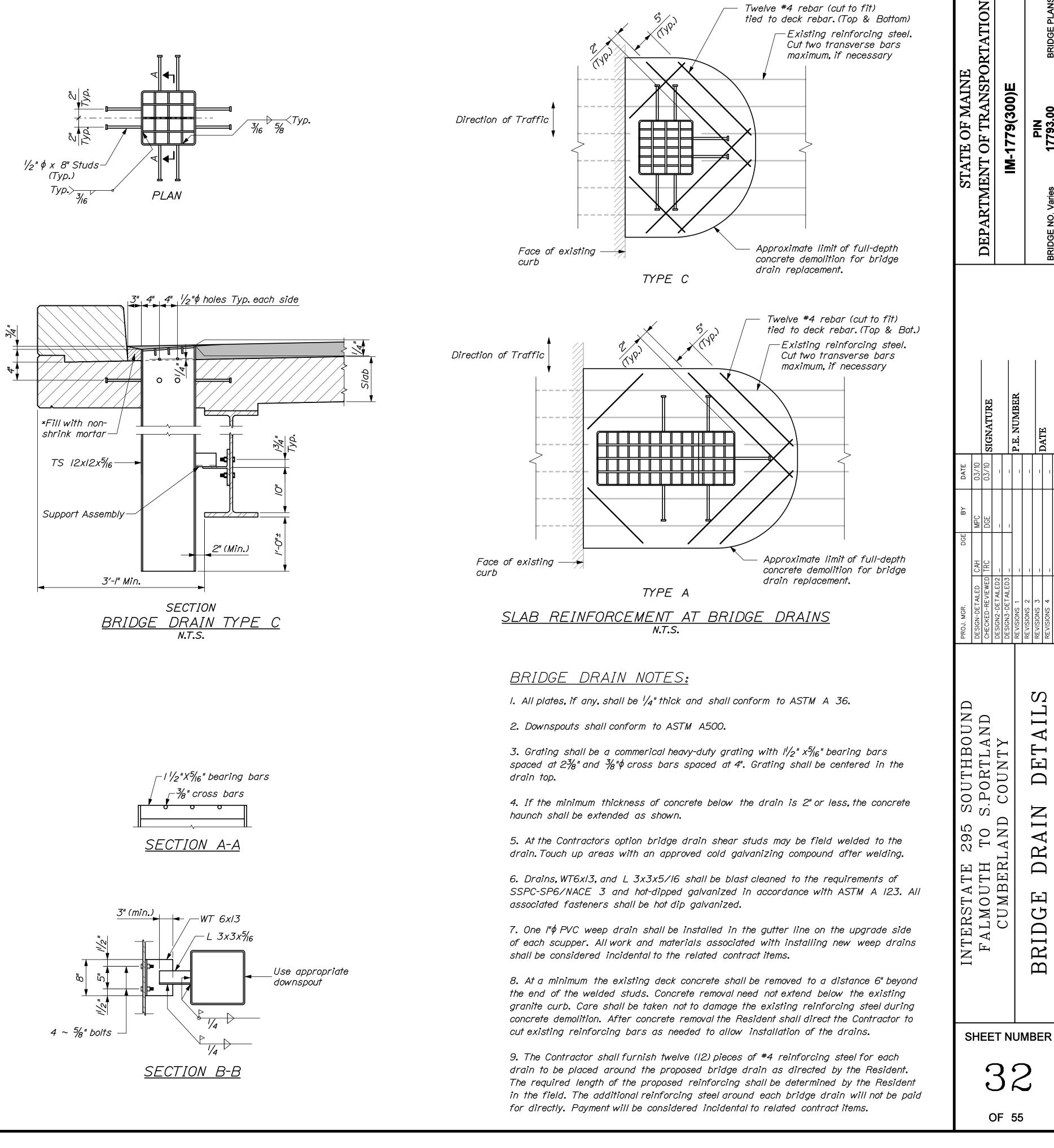
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SPLICE MODIFICATION DETAIL (Elevation view from back side of rail)



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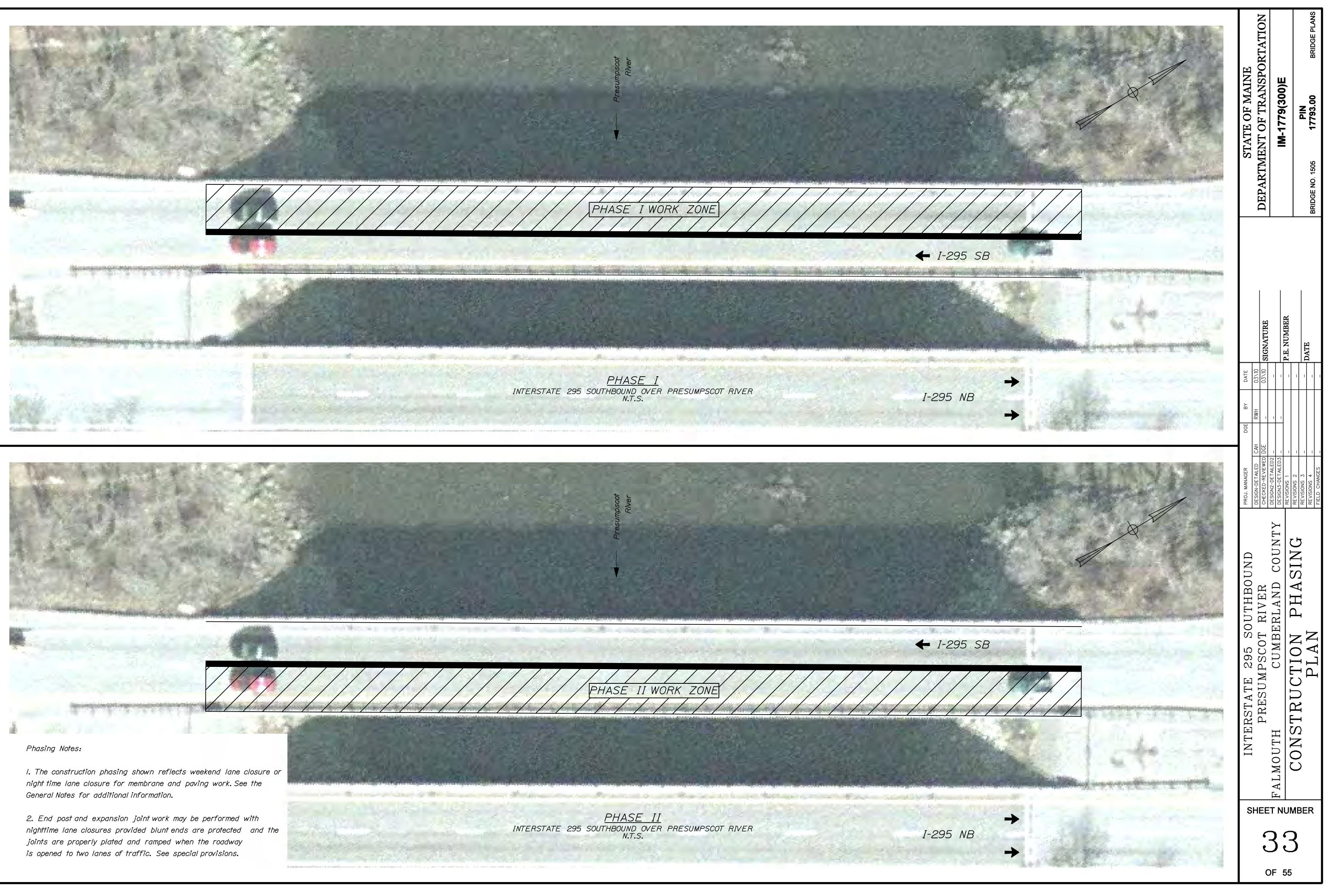
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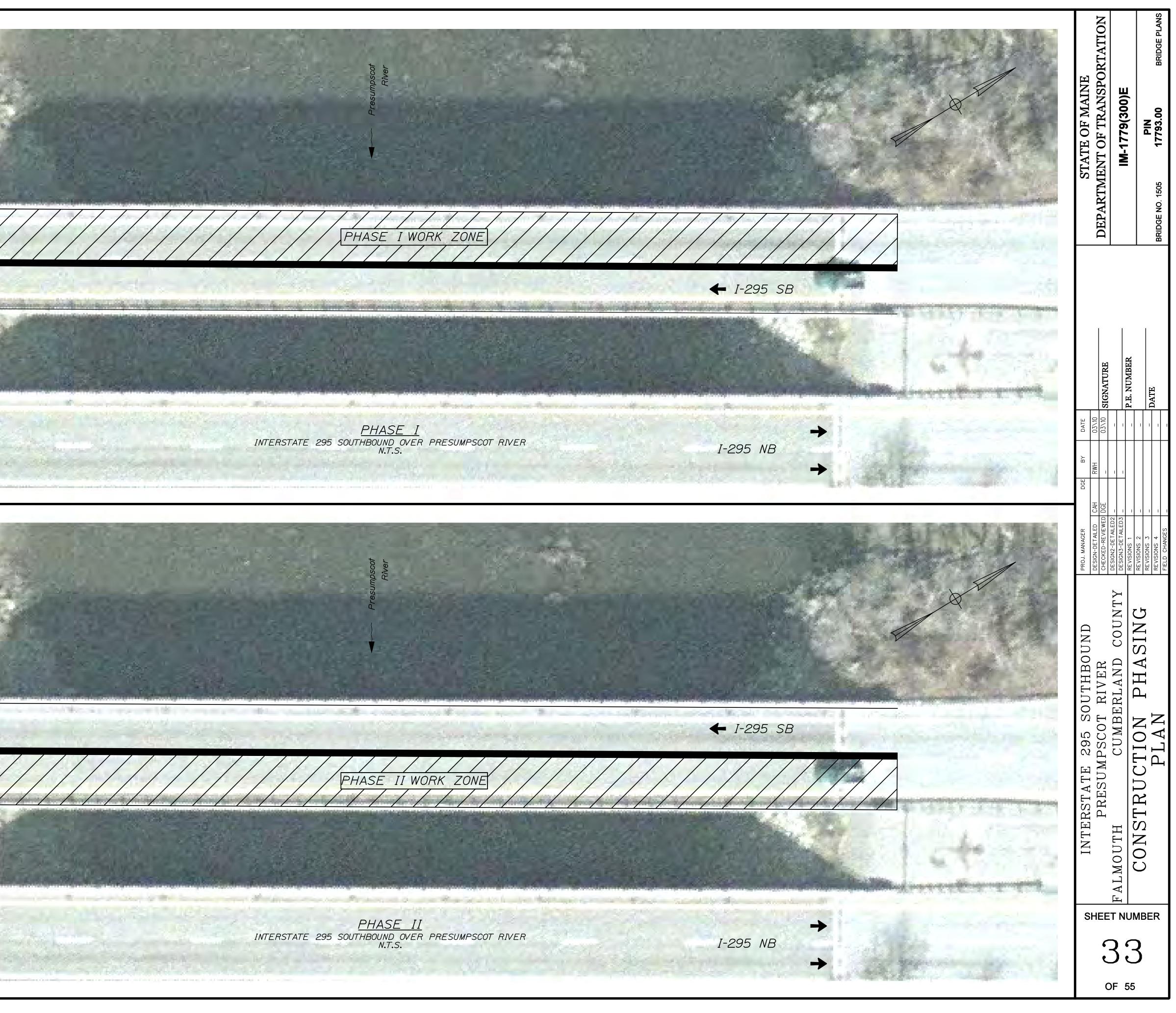
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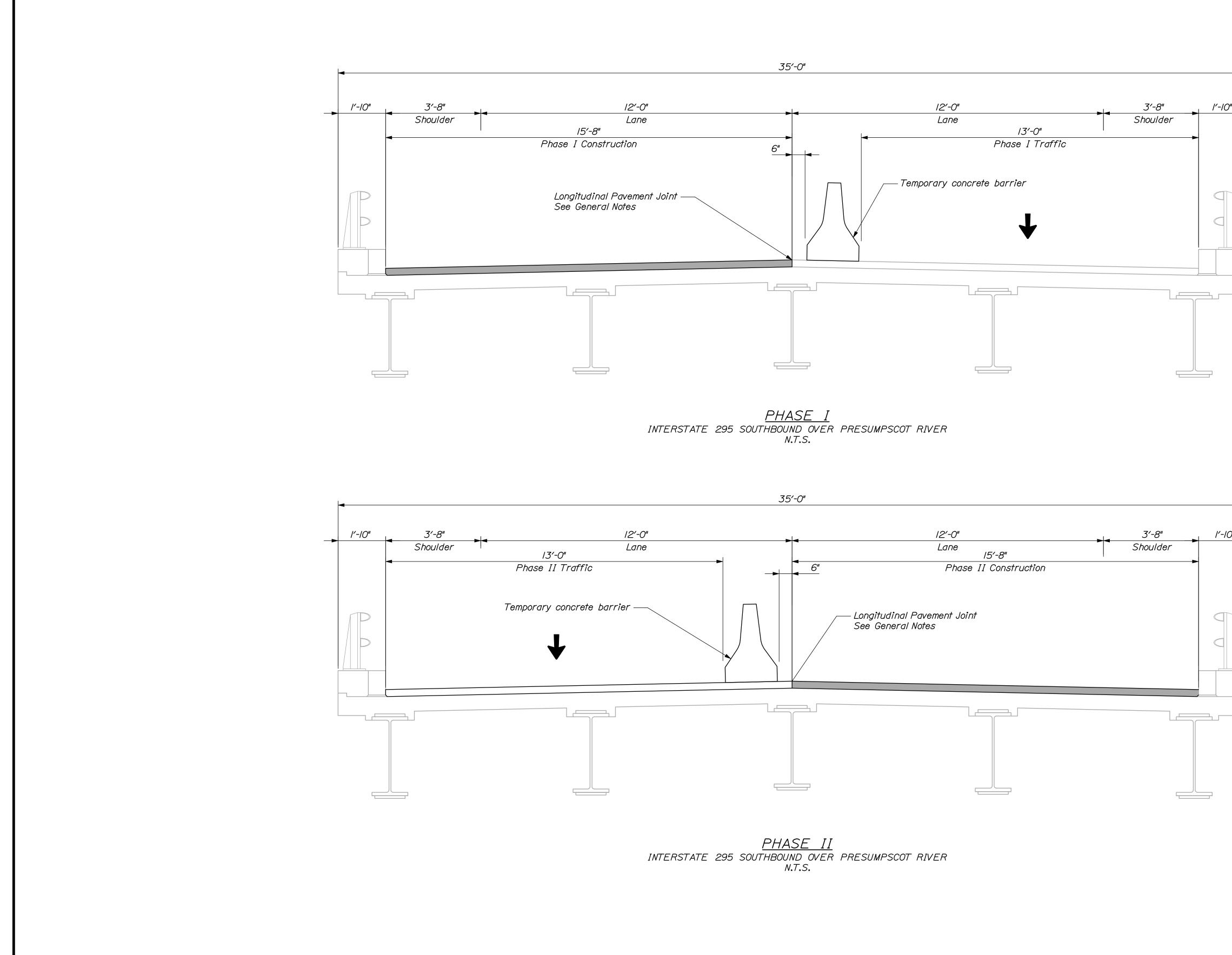
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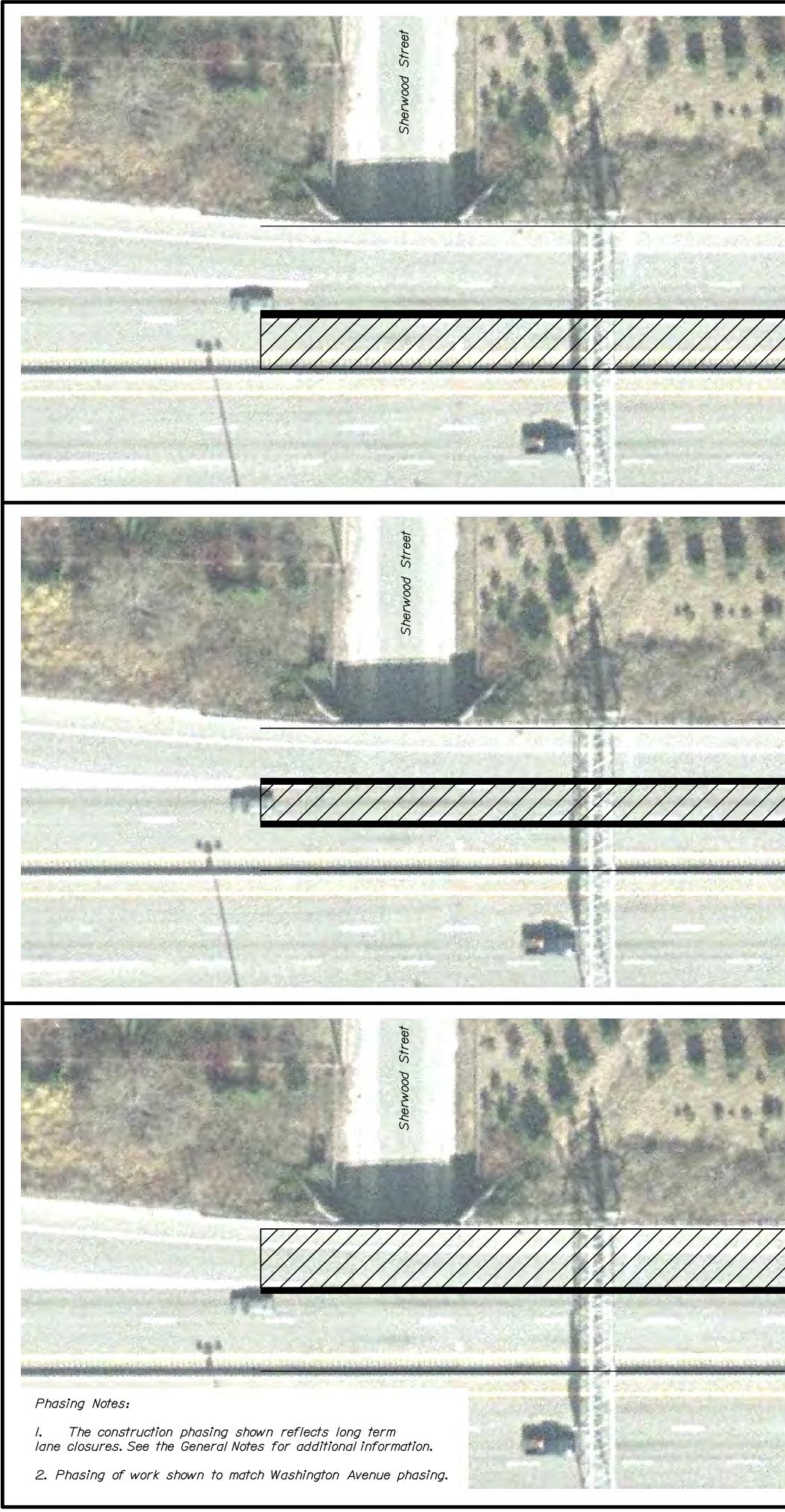
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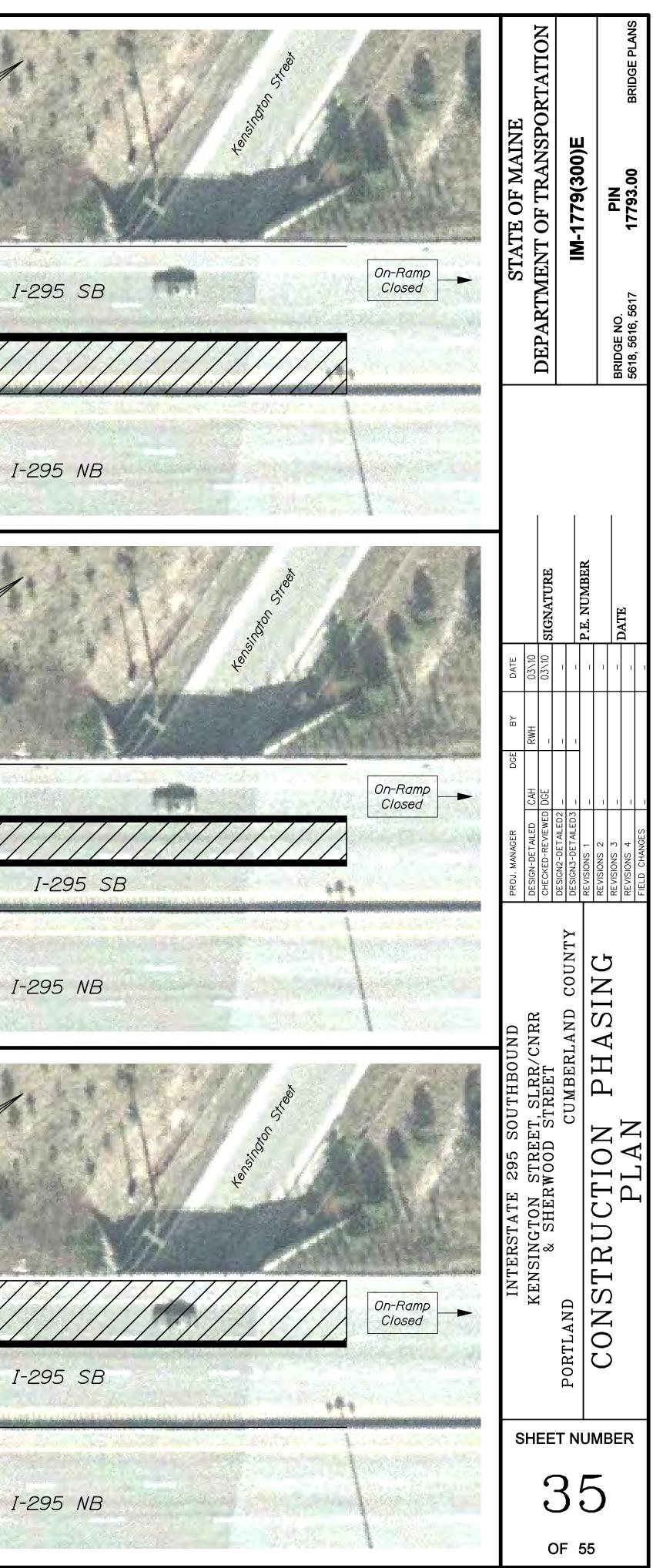


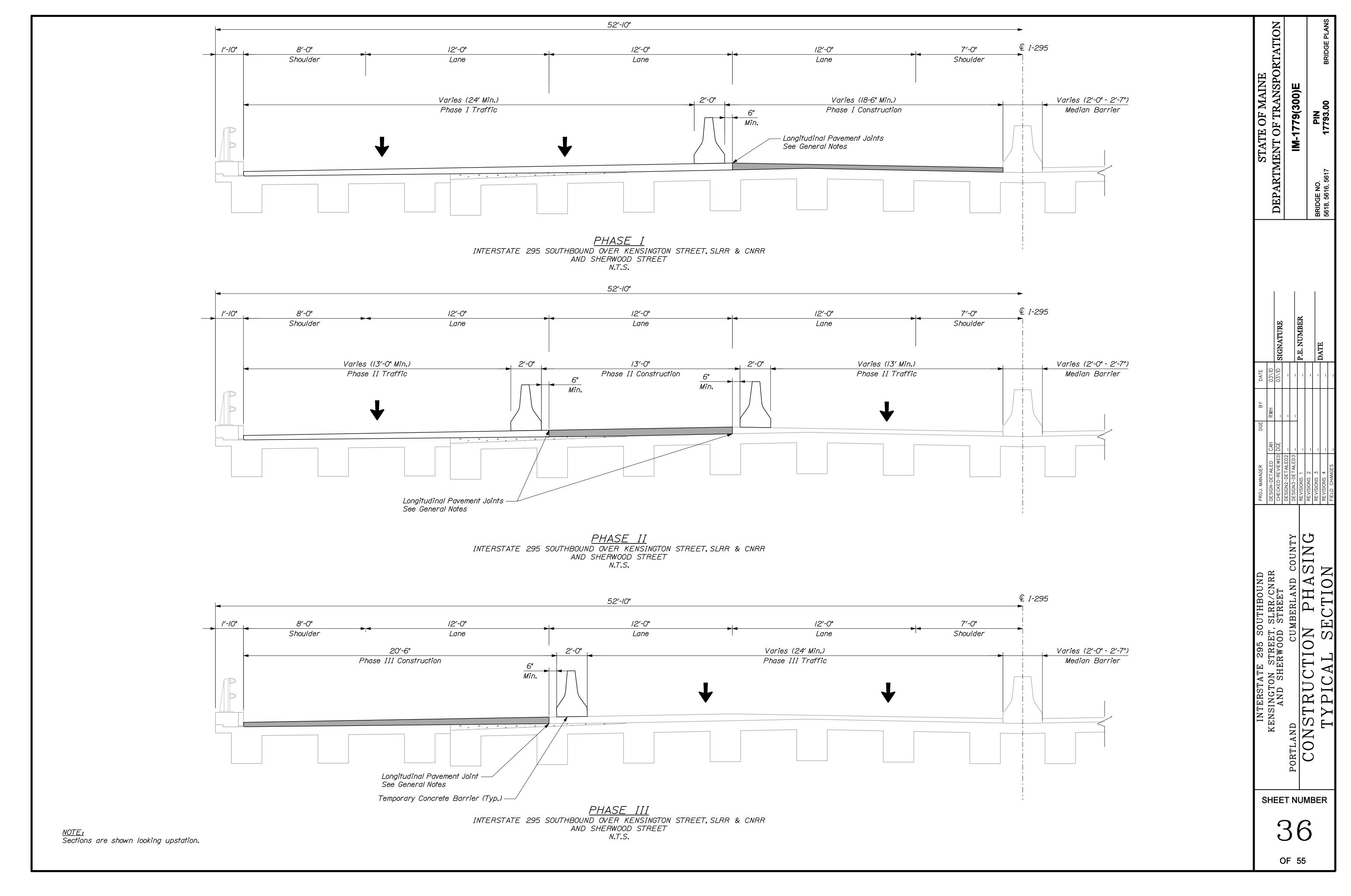


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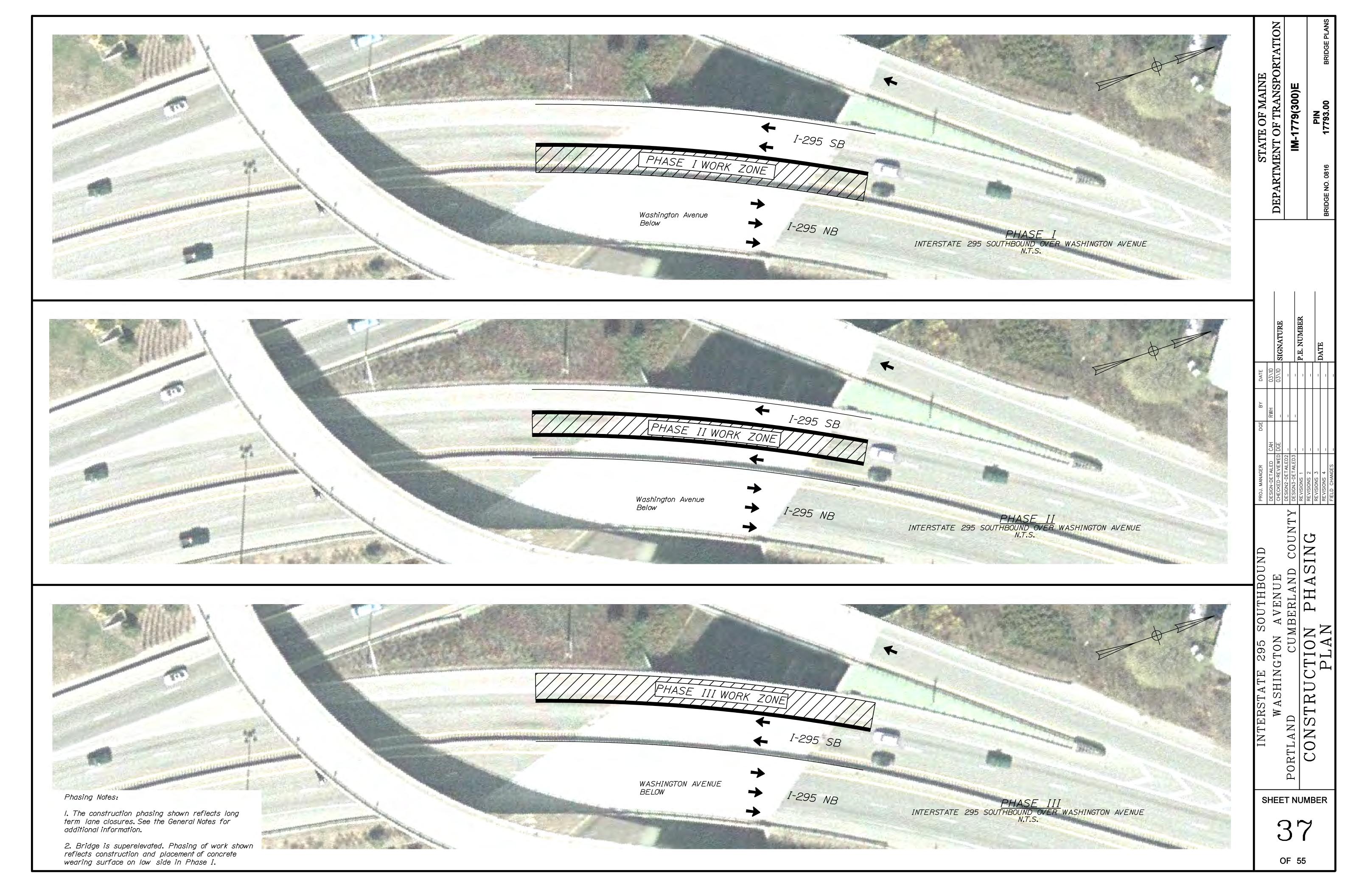
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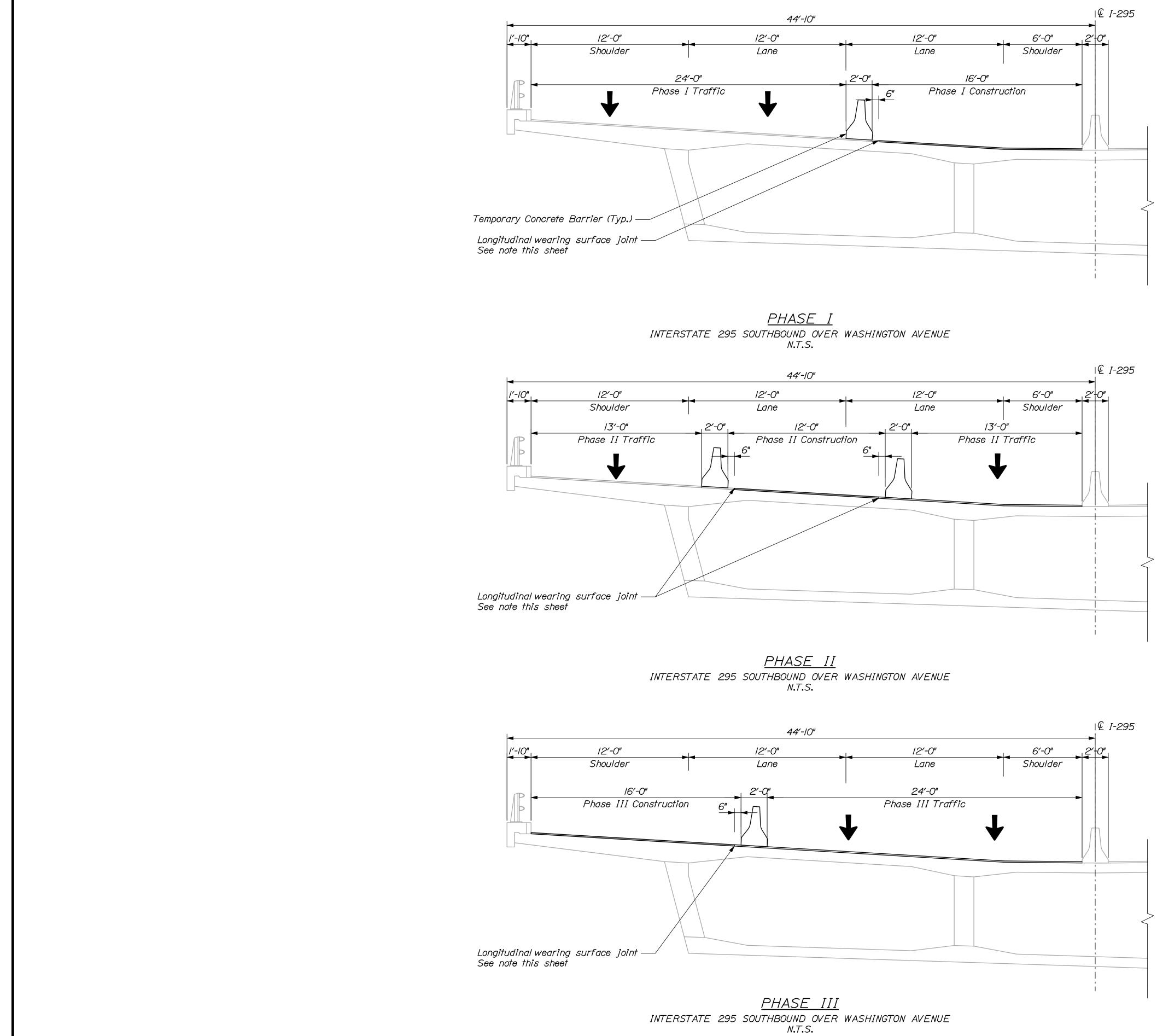




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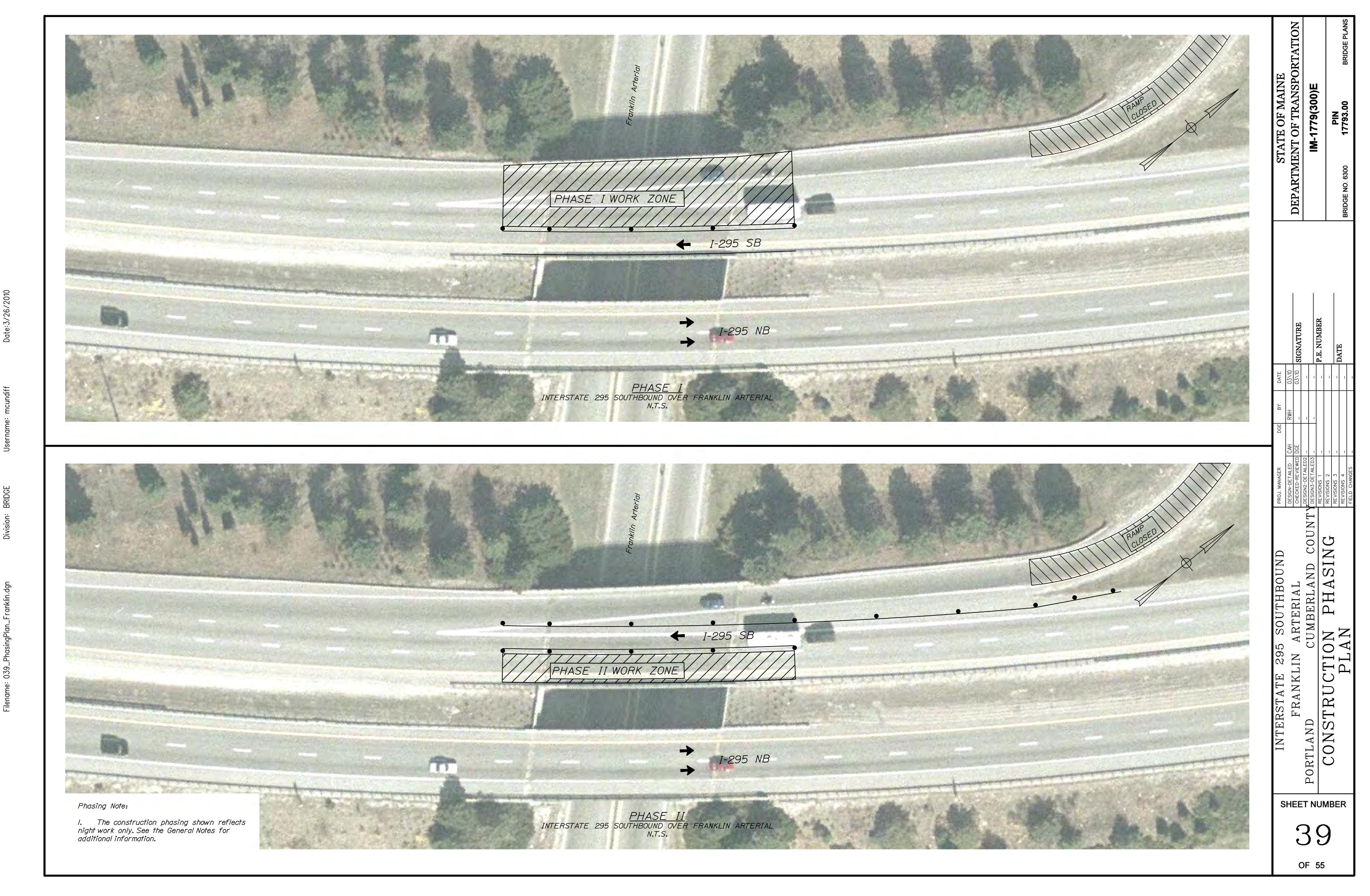
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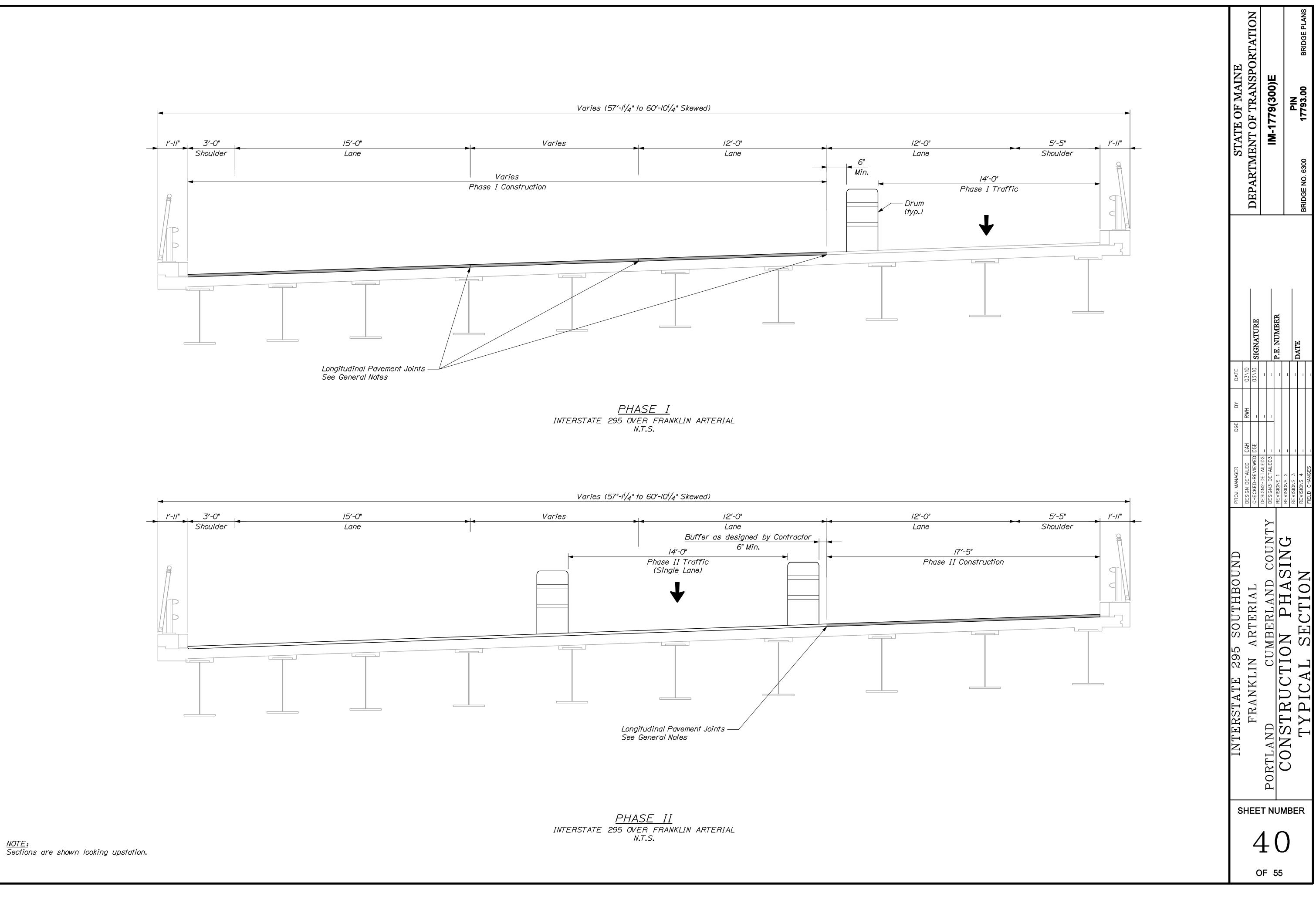
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<u>NOTES:</u> I. Longitudinal concrete wearing surface joints for the Washington Avenue Bridge are not located at crown lines or lane lines.

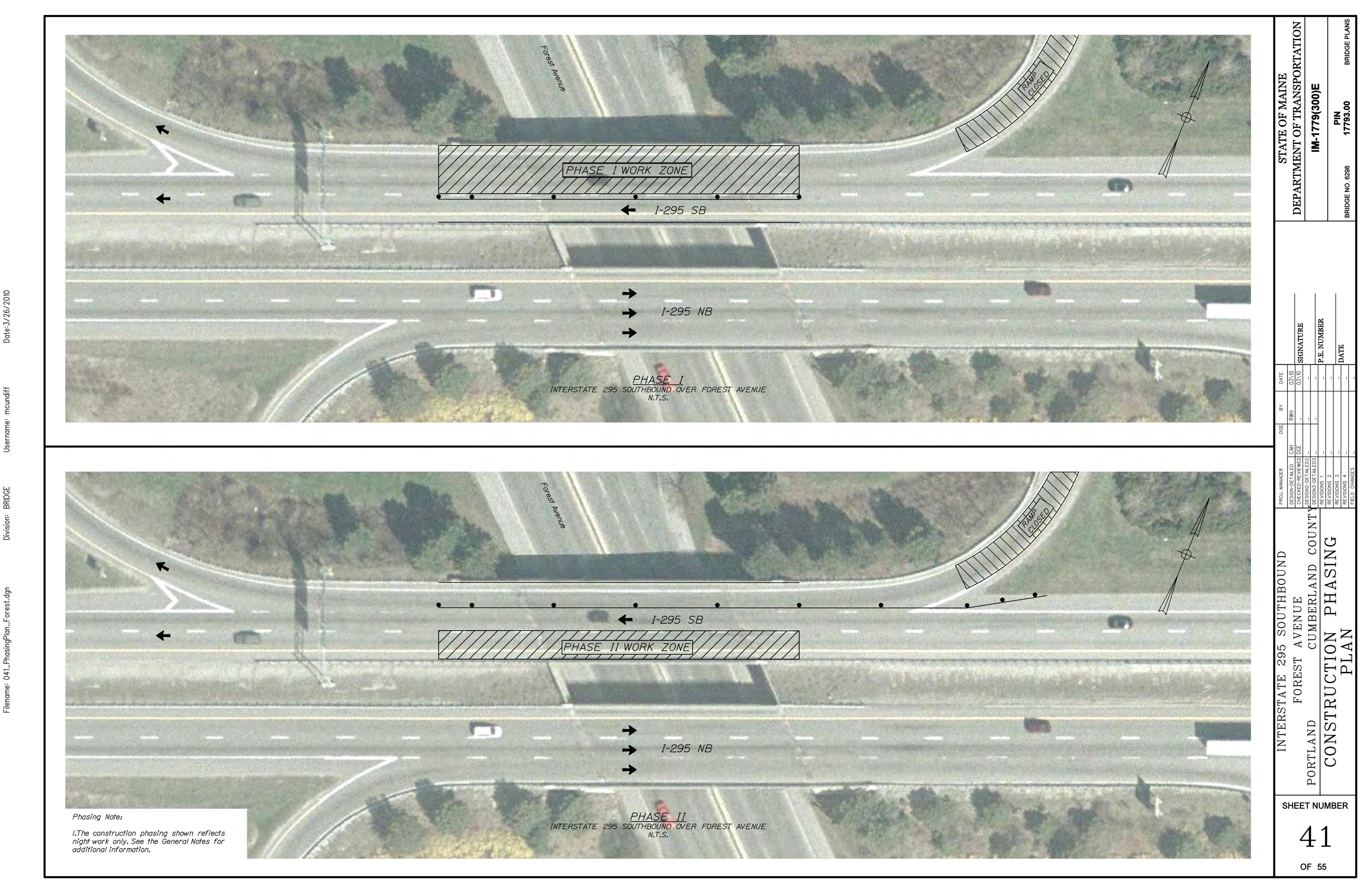
2. Sections are shown looking upstation.

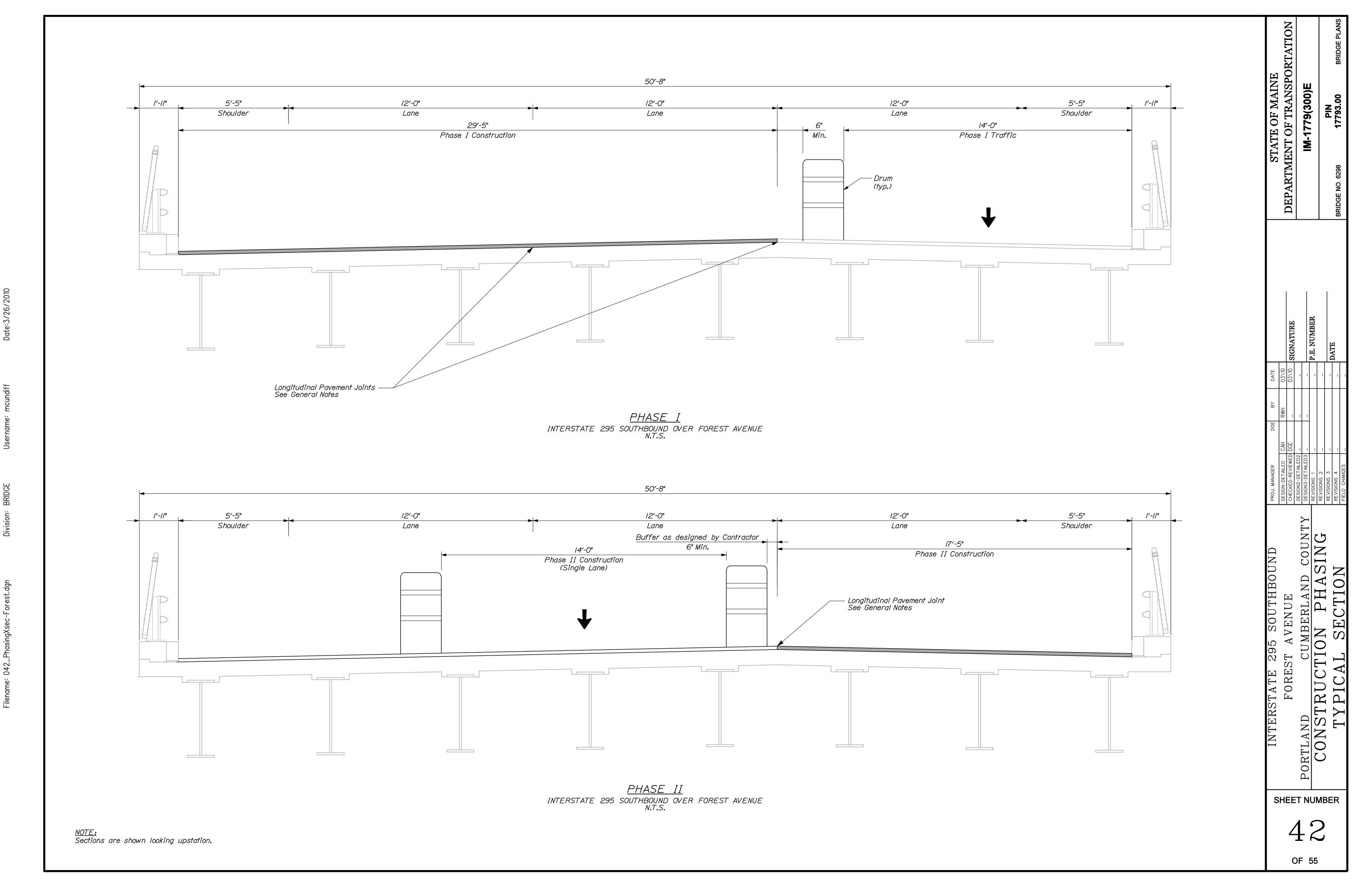


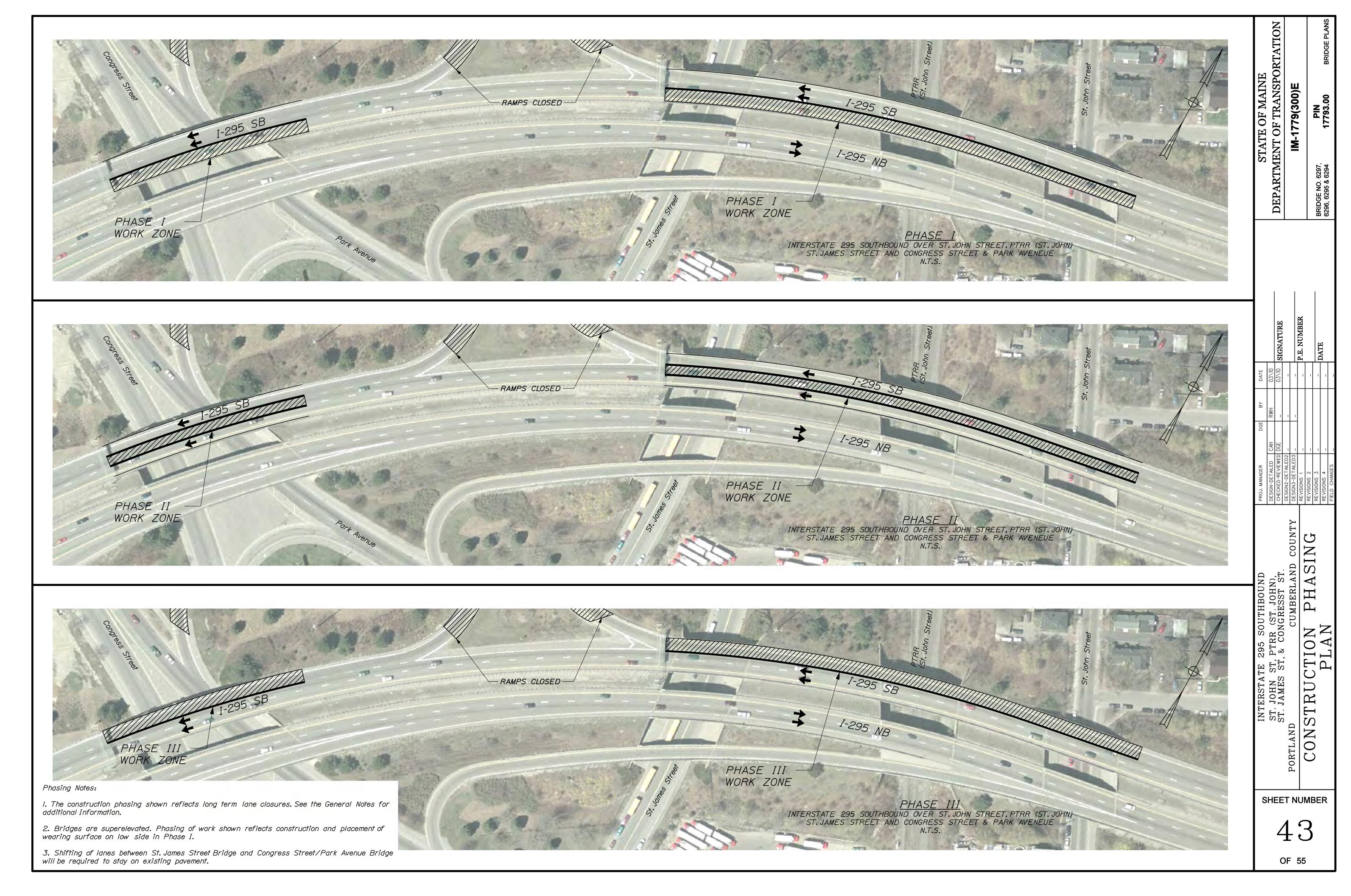


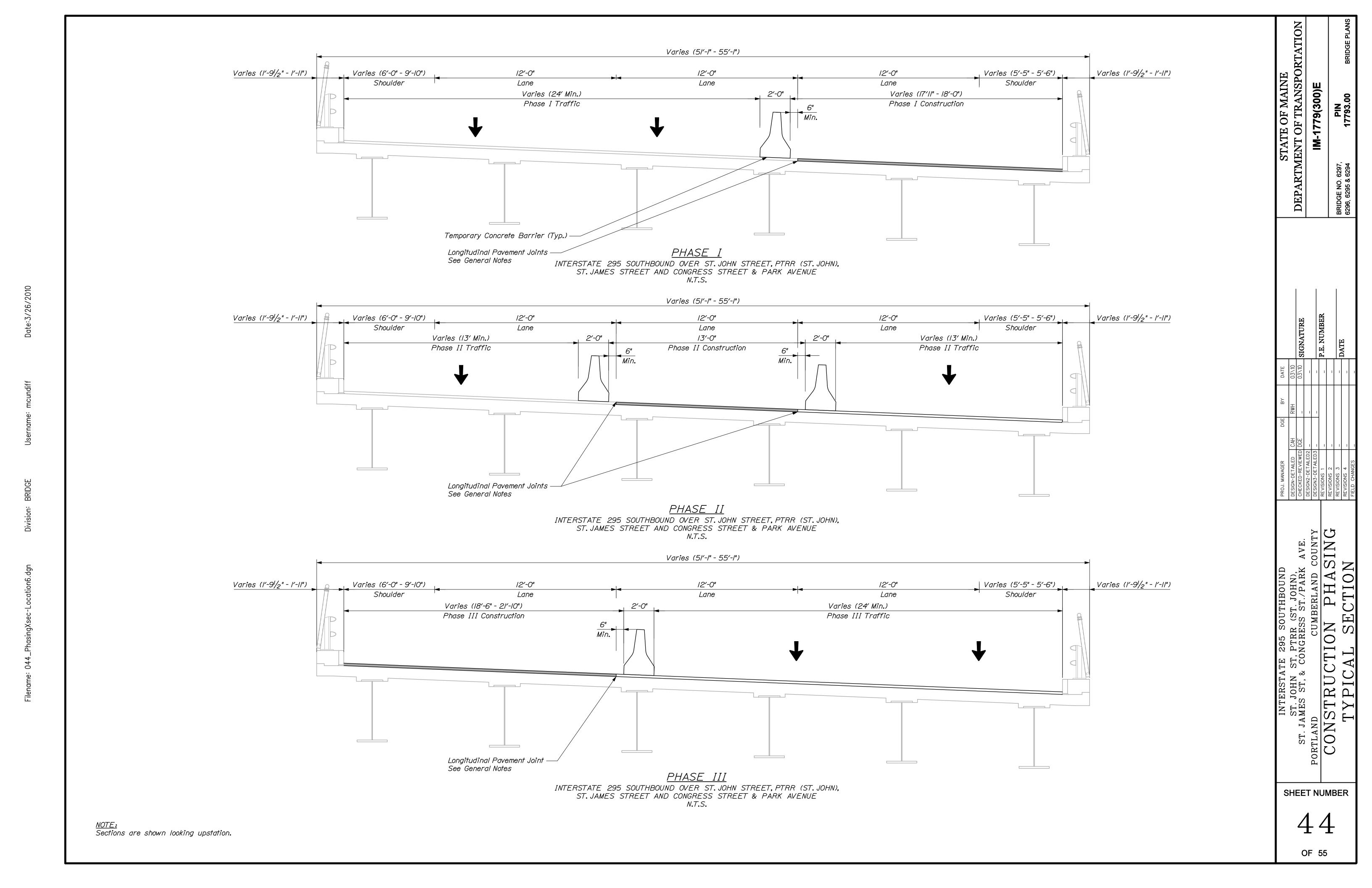
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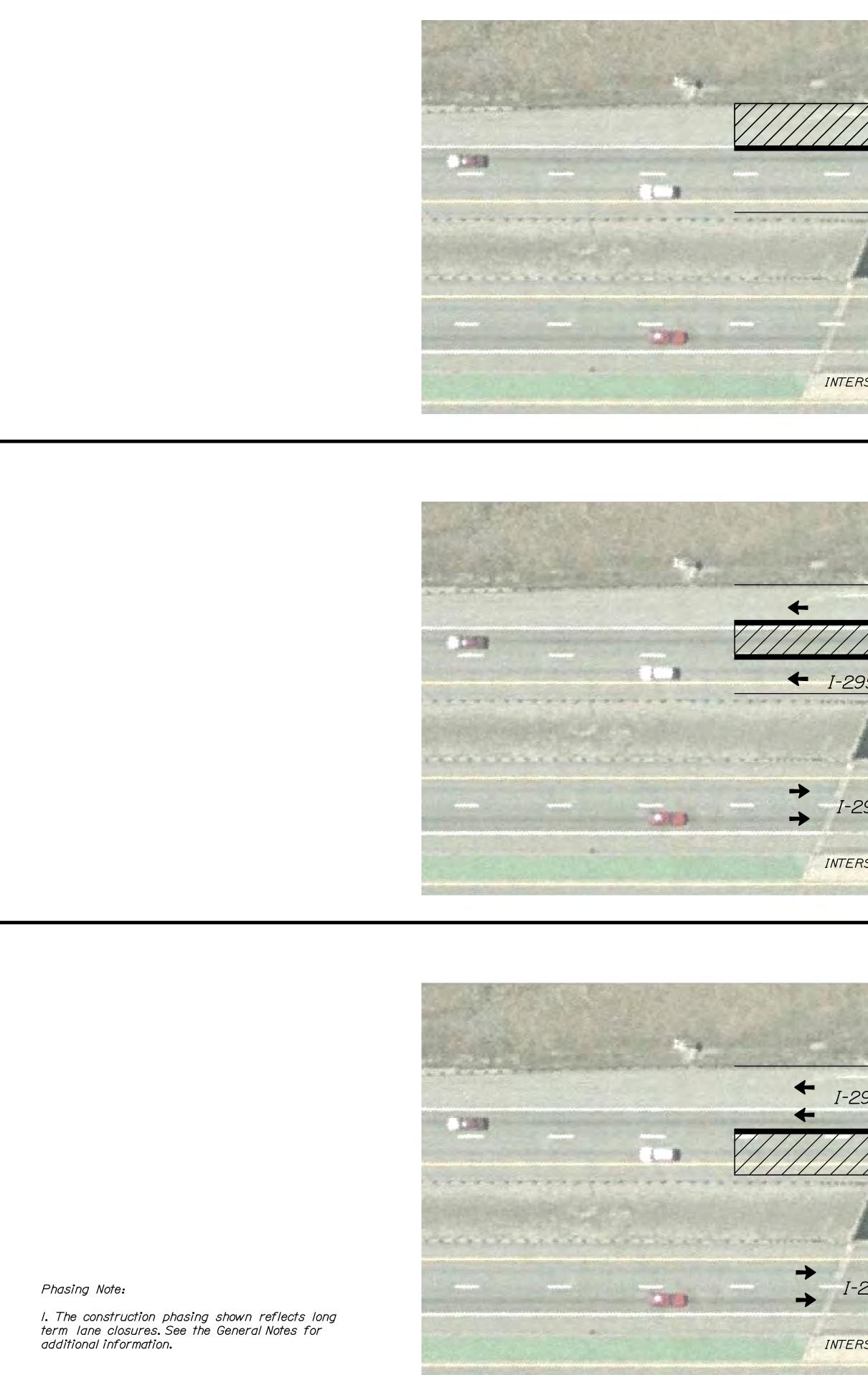
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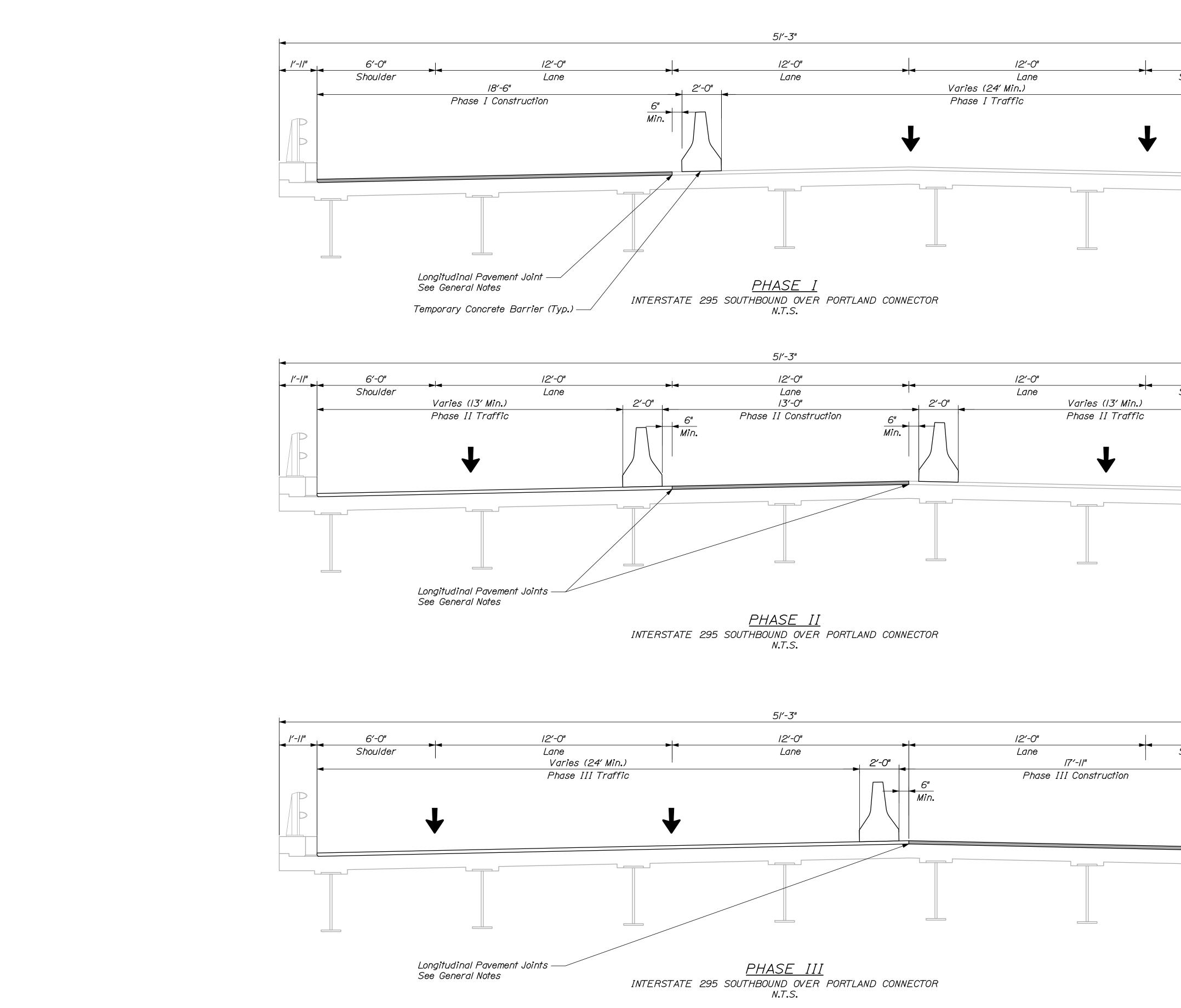


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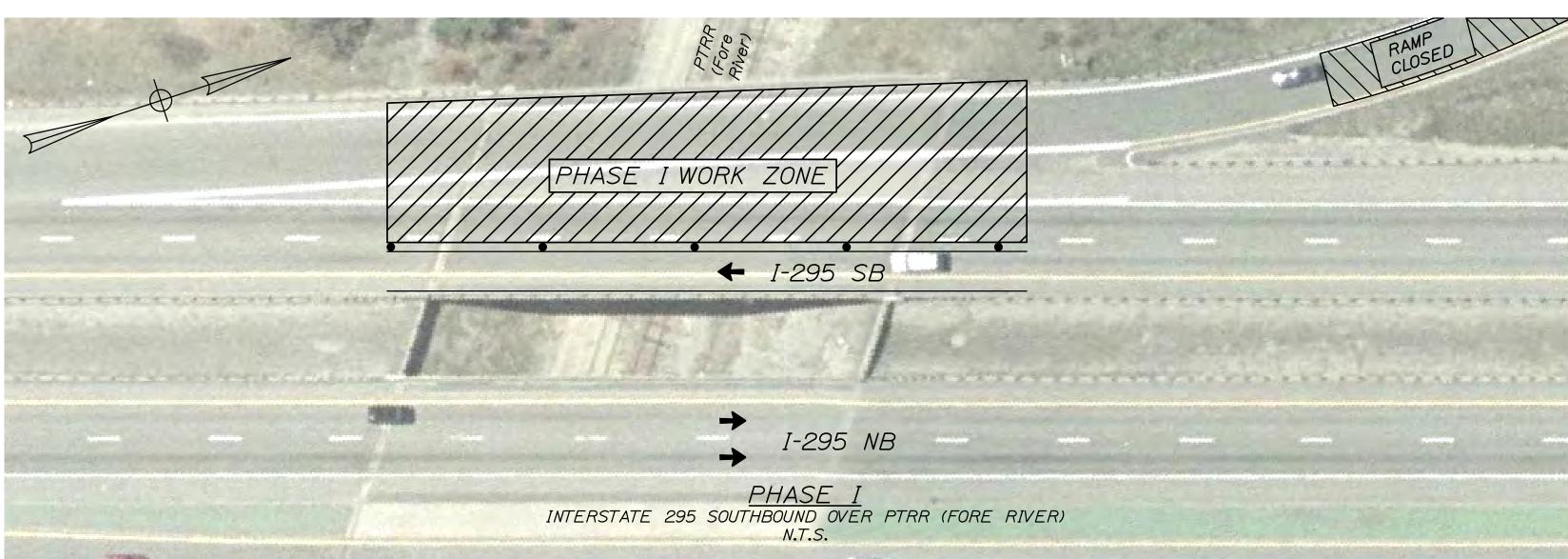
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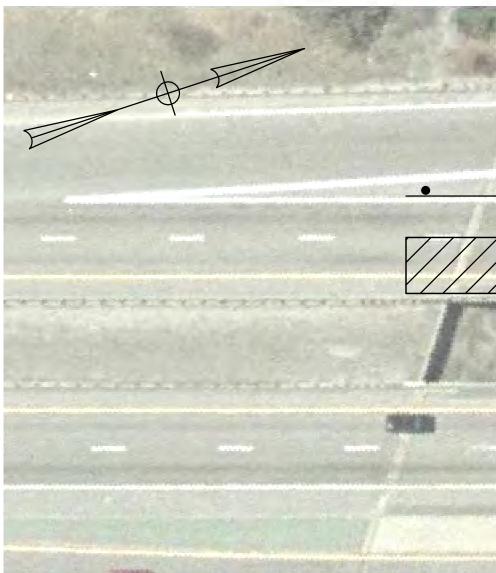
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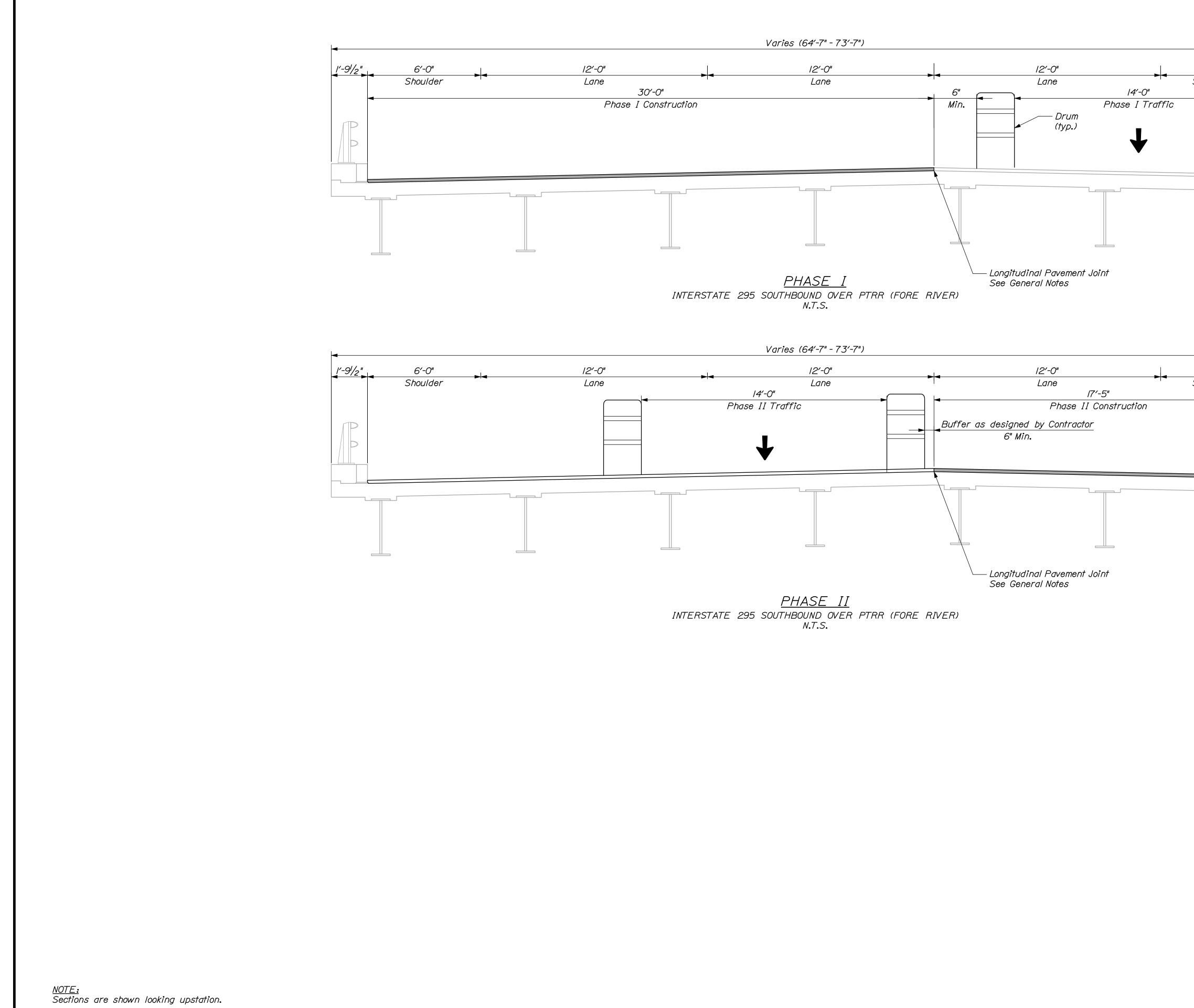
Phasing Note:

I. The construction phasing shown reflects night work only. See the General Notes for additional information.

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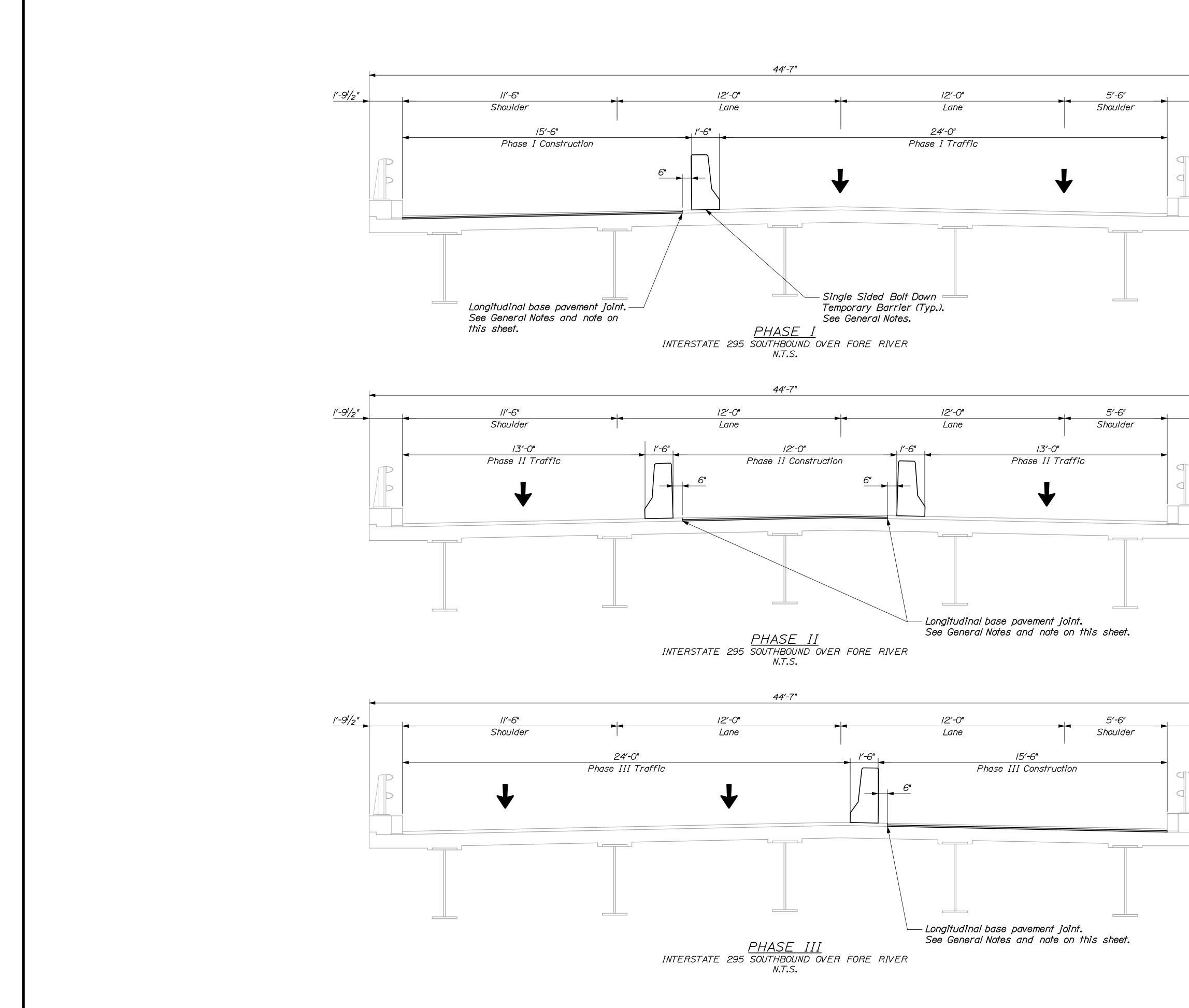
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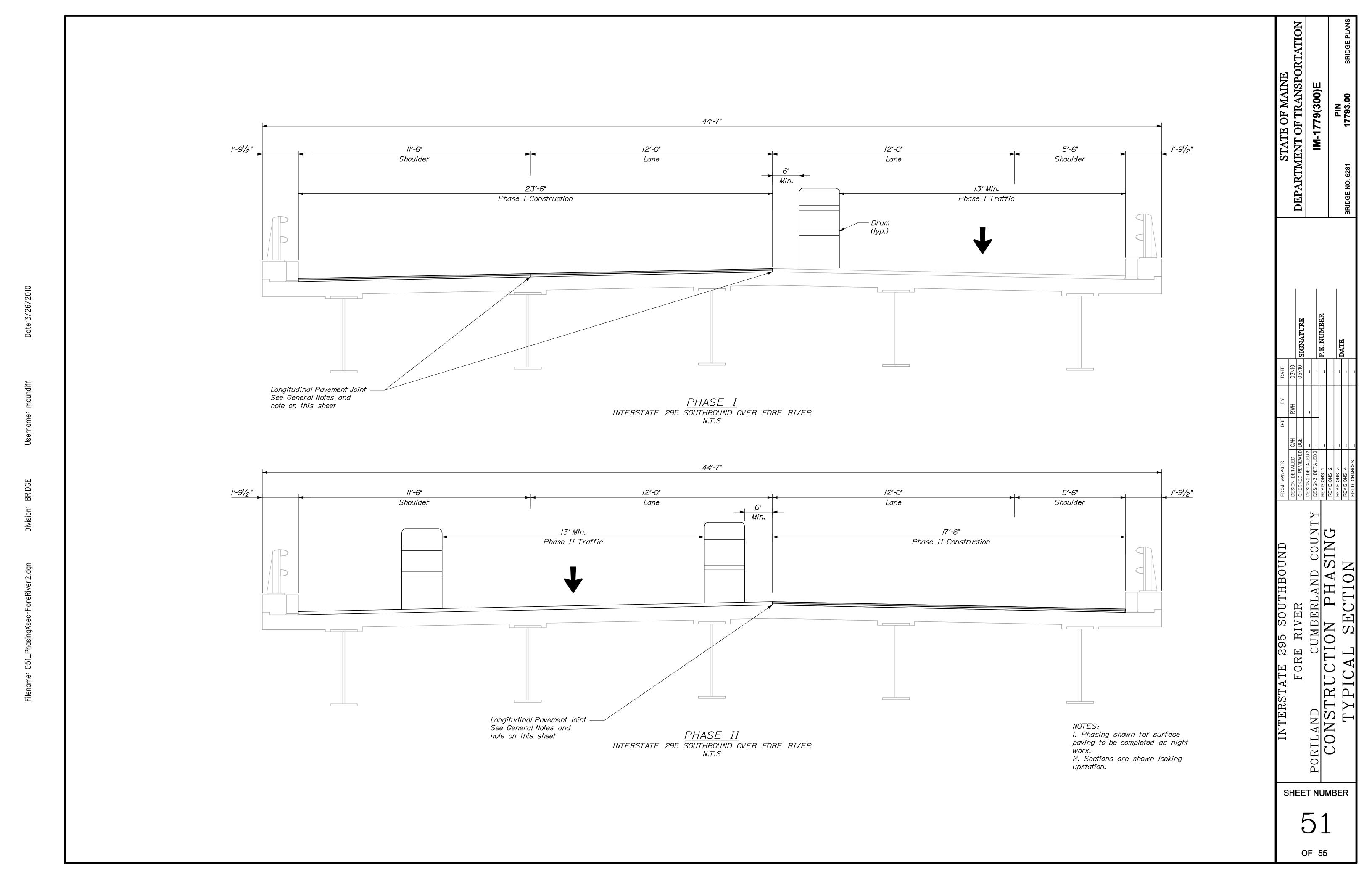


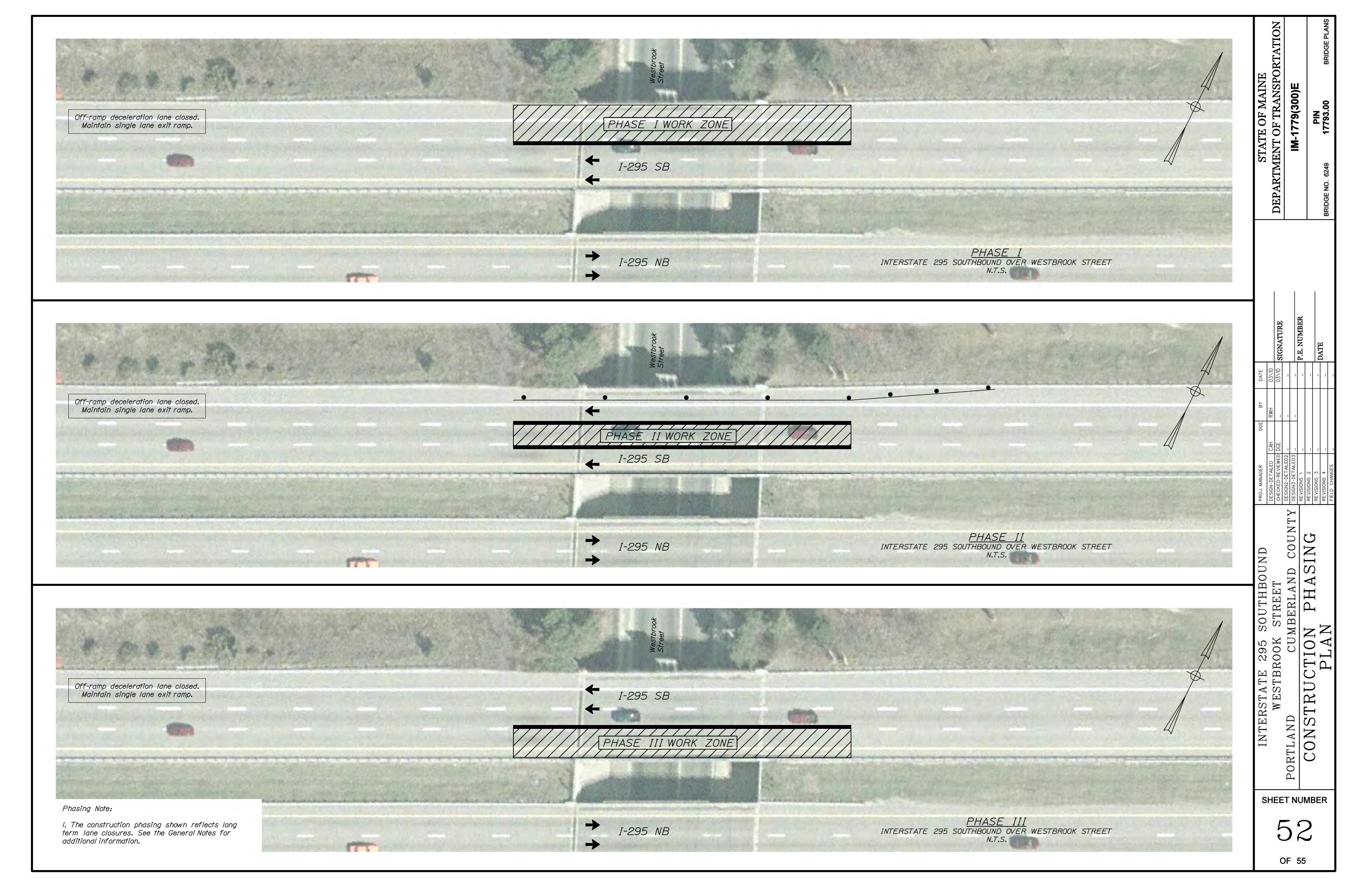


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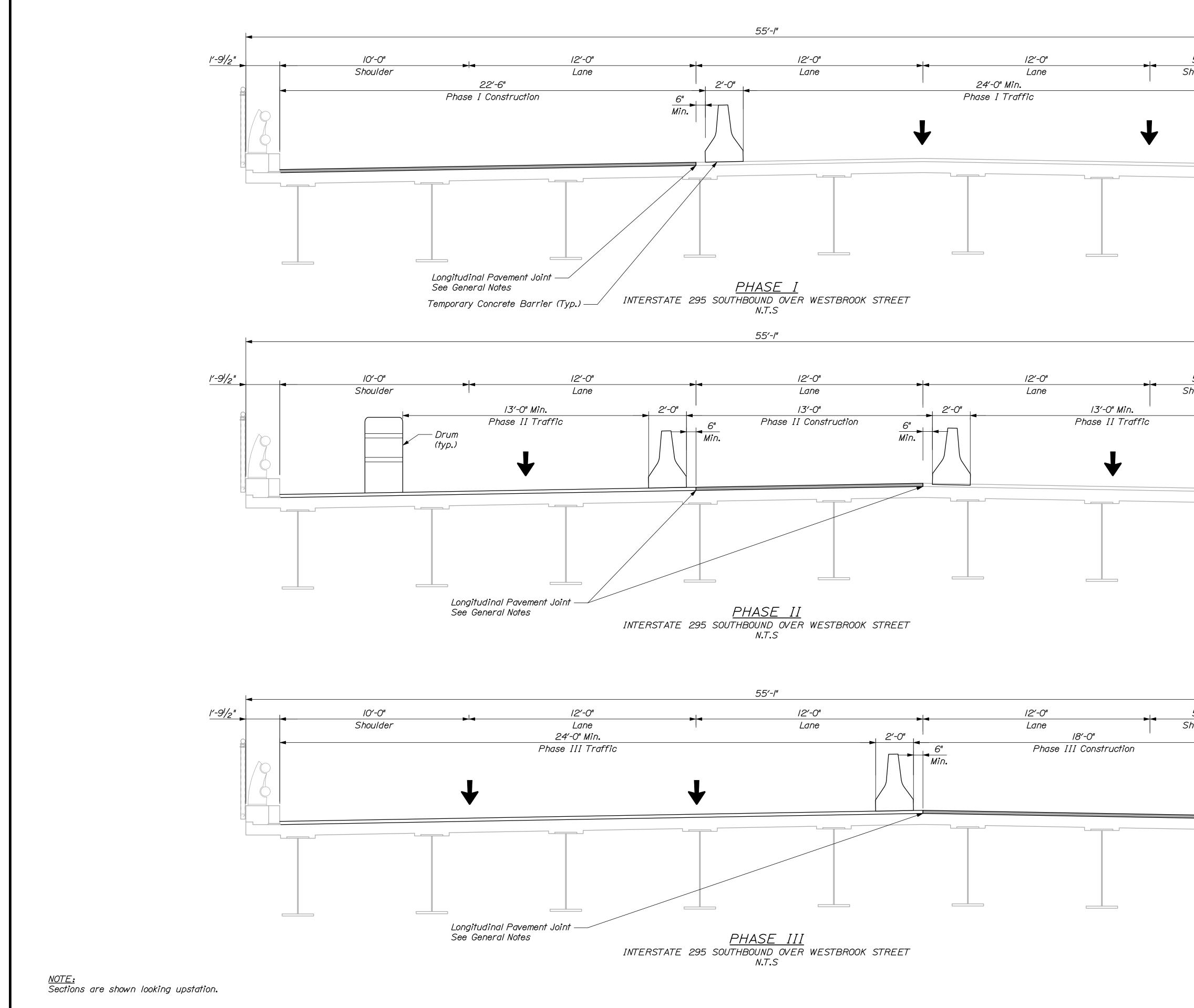
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1/9/*         1/9/*         NOTES: I. Phasing shown for deck rehabilitation, portant. Surface paying shall be completed as night work. See next sheet.         2. Sections are shown looking upstation.	<u>1'-91/2</u> "		STATE OF MAINE         DEPARTMENT OF TRANSPORTATION         DEPARTMENT OF TRANSPORTATION         IM-1779(300)E         BRIDGE NO. 6281         PIN         PIN	
NOTES: I. Phasing shown for deck rehabilitation, joint modification, membrane and base pavement. Surface paving shall be completed as night work. See next sheet. 2. Sections are shown looking upstation. SHEET NUMBER			PROJ. MANAGER     DGE     BY     DATE       DESIGN-DETAILED     CAH     RWH     03\10       CHECKED-REVIEWED     DGE	FIELD CHANGES   -   -
		I. Phasing shown for deck rehabilitation, joint modification, membrane and base pavement. Surface paving shall be completed as night work. See next sheet.	INTERSTATE 295 SOUTHBOU FORE RIVER RIVER CONSTRUCTION PHAS TYPICAL SECTION	





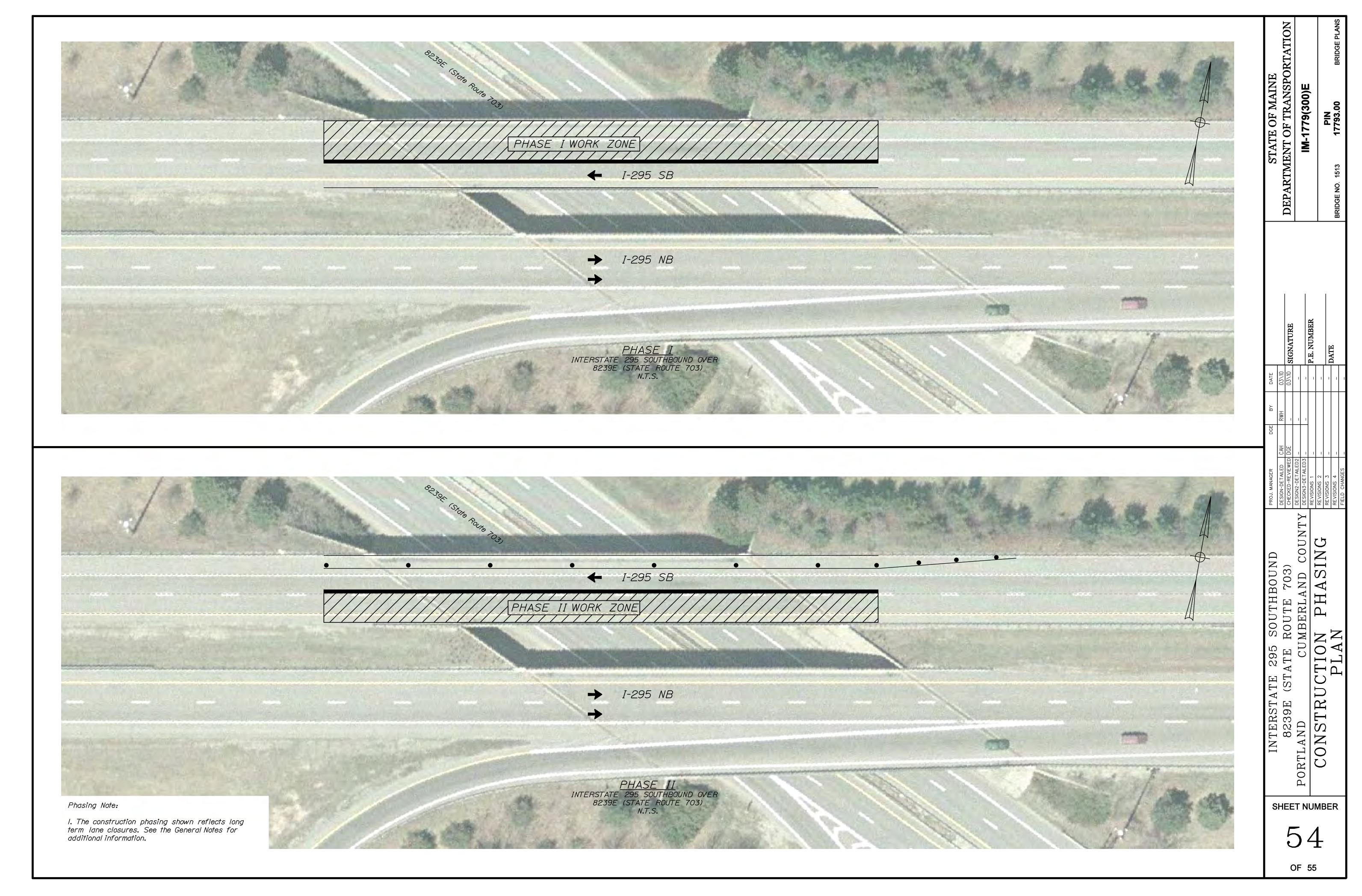
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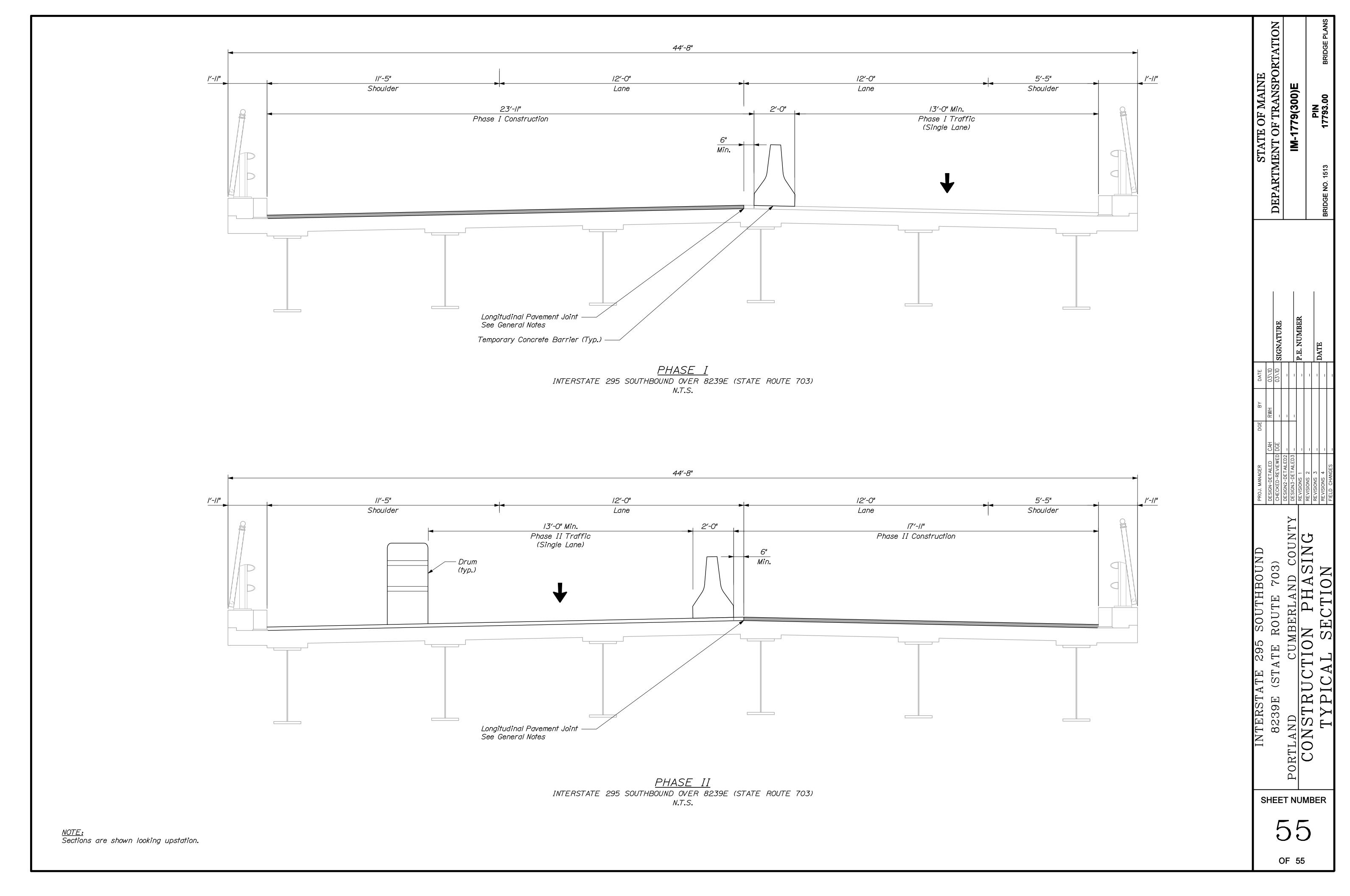


Date:3/26/201

3: 053\_PhasingXsec-Westbrook Street.dgn Division: BRIDGE Us€

5'-6" Shoulder	STATE OF MAINE DEPARTMENT OF TRANSPORTATION	IM-1779(300)E	PIN BRIDGE NO. 6249 17793.00 BRIDGE PLANS
5'-6" Shoulder	PROJ. MANAGERDGEBYDATEDESIGN-DETAILEDCAHRWH03/10CHECKED-REVIEWEDDGE_03/10SIGNATURE	DESIGN2-DETAILED2	REVISIONS         2
5'-6" Shoulder	INTERSTATE 295 SOUTHBOUND WESTBROOK STREET	E	TYPICAL SECTION
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e: 055\_PhasingXsec-Route 703.dgn Division: BRIDGE Username: mcundiff Date:3/

### STATE OF MAINE DEPARTMENT OF TRANSPORTATION



#### SPECIFICATIONS

DESIGN: AASHTO LRFD Bridge Design Specifications, Second Edition 1998 and Interim Specifications through 2002.

#### DESIGN LOADING

Live Load (Existing) ...... HS20-44 as modified for Interstate Highways

#### TRAFFIC DATA

Current (2003) AADT	
Future (2023) AADT	
DHV - % of AADT	
Design Hour Volume	
% Heavy Trucks (AADT)	
% Heavy Trucks (DHV)	
Directional Distribution (DHV)	100
18 kip Equivalent P 2.0	
18 kip Equivalent P 2.5	
Design Speed (mph)	

#### MATERIALS

#### BASIC DESIGN STRESSES

UTILITIES

001..Title

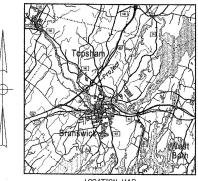
Maine Central / Springfield Terminal Railroad Mdot-Railroad <u>MAINTENANCE OF TRAFFIC</u>

Maintain one 14 foot travel lane at all times using temporary concrete barrier and crash barrels. TOPSHAM SAGADAHOC COUNTY INTERSTATE 95 SOUTHBOUND OVER MAINE CENTRAL RAILROAD

**INTERSTATE 95** 

AC-IM-95-1105(600)E PROJECT LENGTH 0.025 MILES WEARING SURFACE REPLACEMENT

#### Bridge No. 1512





LIST OF DRAWINGS Title Sheet ...... Quantities, Notes and Stage Construction Superstructure...... DEP

TOPSHAM INTERSTATE 95 SOUTHBOUND

SHEET

TITLE

SHEET NUMBER

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OF 3

PIN

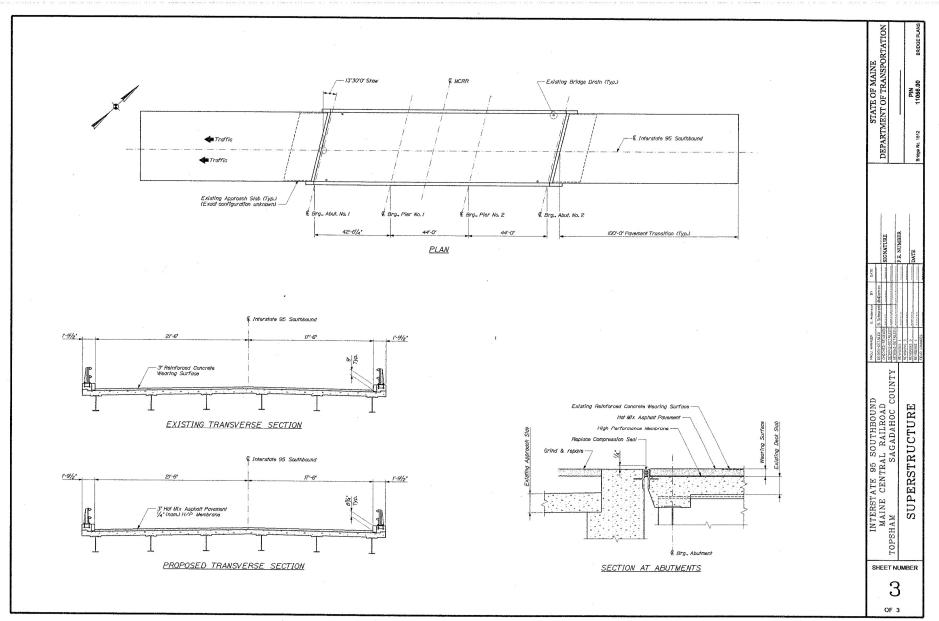
95-1105(600)E

AC-IM-9

#### SCOPE OF WORK

 Replace reinforced concrete wearing surface with high - performance membrane and asphalt pavement
 Grind and repave 100' on approaches at each end of bridge
 Replace compression seals in deck expansion joints
 Retrofit aluminum bridge rail bar splices using set screws
 Repair fascia concrete adjacent to end posts
 Replace damaged sections of approach guardrail
 Replace guardrail leading end treatment with NCHRP 350 compliant system

ITEM NO. DESCRIPTION QUANTITIES DESCRIPTION QUANTITY UNIT 202/07 REMAINS EXISTING CONCRETE: I LS GENERAL CONSTRUCTION NOTES		
200 /07 DELL SWITT OF DAVISITION		STATE OF MAINE DEPARTMENT OF TRANSPORTATION AC-IM-95-1105(600)E PIN Manh 112 1066 00 BENDER 100
202.127 REM EXIST BIT PAVEMENT I LS I AN INTERFECTIVE FORMULA BY THE CONTRACT OF A CON		
403.213 HOT MIX ASPHALT 12.5 MM HMA BASE 1/26 T		713
403.2/0     HOT MIX ASPHALT 9.5 MM HMA     III     T       507.30     ALUM RAIL SPLICE RETROFT     B     EA     2. Plans of the existing bridge are available for the Contractor's reference		E O E
508.14 HIGH PERFORMANCE WATERPROOFING MEMBRANE I LS of the Bridge Program's office In Augusta, The plans are reproductions		NI ISI DO
500 51 DEPAIR OF LIGHTADD FLO SUDE DELOW DE STEL		AN AN
SI0.51     REPAIR OF UPWARD FAC SURF-BELOW RE STEEL     20     SF     In 8 very dimension field changes       SI8.60     REPAIR OF VERTICAL SURFACES < 7.9 IN.		STATE OF MAINE MENT OF TRANSPO AC-IM-95-1105(600) AC-IM-95-1105(600)
516.70 REPAIR OF OVERHEAD SURFACES < 7.9 IN. 4 SF		DF TF 0F TF 95-11
520.22     EXPANSION DEVICE     COMPRESSION SEAL     2     EA       600.07     GR TP 32     SGL RAIL     NOO     LF       600.16     GR DEFUBERING PROF     4     F		
bridge. There is no assurance that the information or data is a true		E H J
606.363     GR     REMOVE     AND DISPOSE     150     LF     representation of the only deal of the deal       606.79     GUARDRAIL 350     FLARED     TERMINAL     2     EA		A IN
6/5.07 LOAM 5 CY atherwise nated.		N N N
elia.400   SEEDING METHOD INUBER E - PLAN QUANTITY I UN 4. Any damage to exialing concrete resulting from the work performed, shell 627.72 6 WHITE PAREMENT MARKING LINE IN 000 LF		EP/
629.05 HAND LABOR STRAIGHT TIME 20 HB contraction of the expense of the		A I
631.12 ALL-PURPOSE EXC (INC OPERATOR) 20 HR		
631.172     TRUCK-LARGE (INC OPERATOR)     20     HR     5. Reinforcing steel shall have a 2 <sup>th</sup> inimum caver unless althouse table       633.9     FIELD OFFICE TYPE B     I     EA       6 The Conducator shall use once on the avistical policitical and table		
652.39 WORK ZONE TRAFFIC CONTROL / LS bill Contract for a control of the Contract for a control of the Contract for the Control of the Contro		I
ESUS TEAM SOLE CHOS, AND WATCH POLL CONTROL I LS by the Resident at no expense to the Department.		
7. After the axisting concrete wearing surface has been removed. The Contractor may be directed by the Resident to rehabilitide areas at the deal. Program will be maken under tems 528.00 or 516.5 Winkbarer		
Control may be uncertain by the reasonant or the control may an of the control of		
Is applicable.		
B. If the depth of the detarforded concrete is below the reinforcing bars, then remove concrete to a minimum depth of P below the reinforcing		12 12
steel.		SIGNATURE P.E. NUMBER
9. Depress wearing surface around existing bridge drains as directed & Interstate 95 Southbound		LE. P
by the Resident.		
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STAGE_III Open bridge to traffic		12
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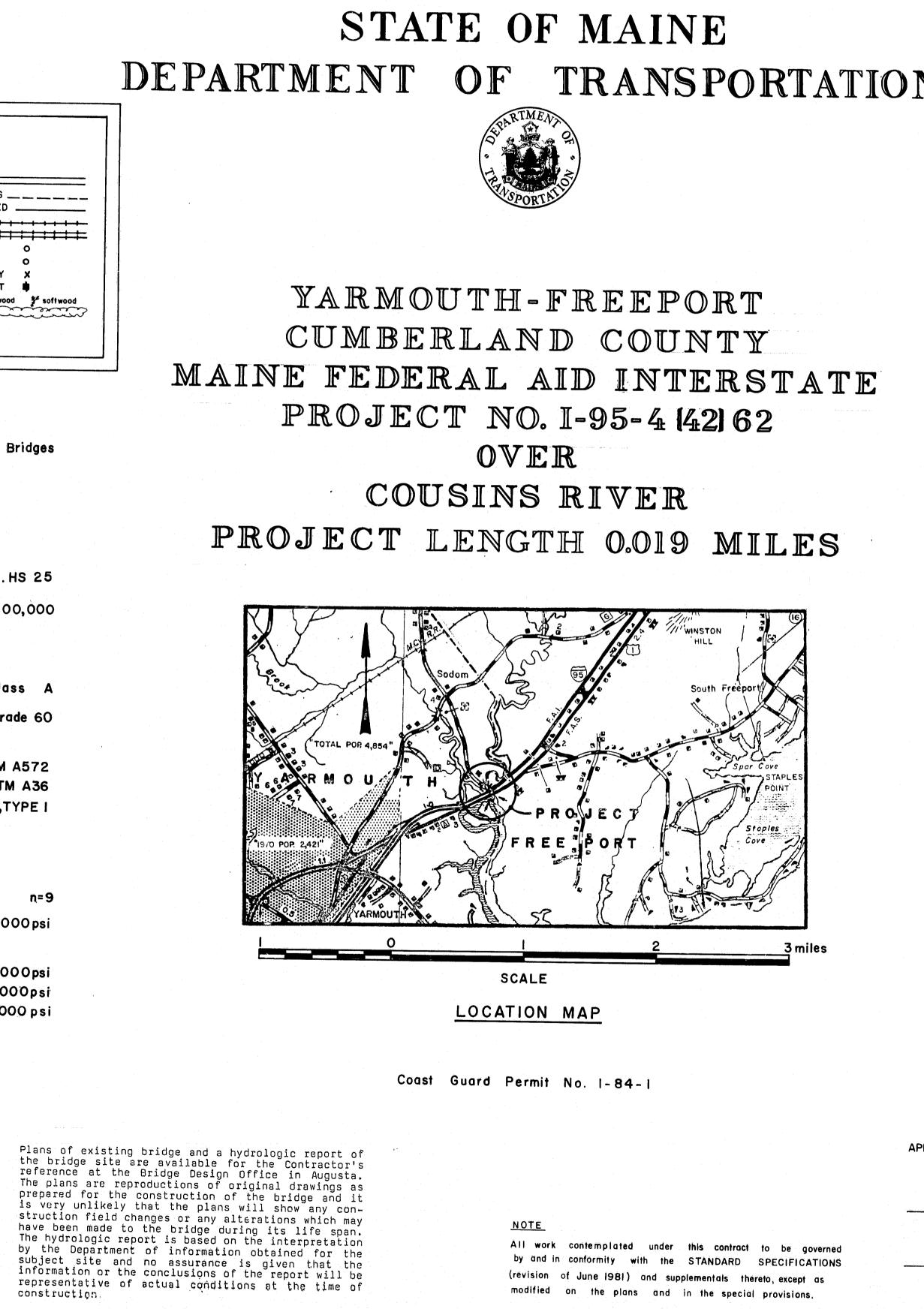
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	DESIGN: Load Factor Design per AASHTO Standard Specifications for 1977 and interim specifications thru 1983.	Highway Br
	CONTRACT: State of Maine, Department of Transportation, Standard	
	Specifications, Highways and Bridges, Revisions of June	1981.
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<u>+</u>	ESTIMATED QUANTITIES		
ITEM NO.	DESCRIPTION	QUANTITY	UNIT
202.19	Removing Existing Bridge	1	L. S.
203.25	Granular Borrow	5000	с. <i>Ү</i> .
203.26	Gravel Borrow	110	С. Ү.
206-081	Str. Earth Exc Abuts., Ret. Walls, Box Culverts, & Struc. Plate Units	10	С. Ү.
403.08	Hot Bituminous Povement, Grading C	145	Ton
501.2/7	Steel H Beam Piles 89 Ibs/ft	6120	L.F.
502.21	Str. Concrete, Abuts. & Retaining Walls	542	С. У.
502.260	Str. Concrete Roadway & Sidewalk Slabs on Steel Bridges	1	L.S.
502.310	Str. Concrete Approach Slabs	1	L. S.
503,12	Reinforcing Steel Fab & Delivered	87,800	LBS
503.13	Reinforcing Steel Placing	87,800	LBS
504.700 ,	Str. Steel Fabi & Delivered	1	<i>Ļ, 5.</i>
504.710	Str. Steel Erection	1	L, S.
505.080	Shear Connectors	/	L.S.
506.141	Field Painting New Structual Steel	1	L.S.
507.092	Aluminum Bridge Railing, 2 Bar	400	L. F.
508.10	Membrane Waterproofing	880	5. Y.
511.0701	Cofferdam Abut. 1	/	۷. 5.
511.0702	Cofferdam Abut. 2	/	Ζ. 5.
512.08	French Drains	276	2. F.
514.06	Curing Box for Concrete Cylinders	/	Each
515.2.1 -	Protective Coating for Concrete Surfaces	/	<i>L.S.</i>
520.22	Expansion Device - Compression Seal	2	Each
609.132	Vertical Bridge Curb Type 1B	422	L. F.
610.03	Plain Riprop	1800	С. У.
616.08 1	Sodding	50	<i>5. Y.</i>
618.15	Temporary Seeding	30	LBS.
619.12	Mulch	9	Unit
639.19	Field Office Type B		Each

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BY DATE MEB J.W.D. 2/84 7911) 2/84 PROJECT DESIGN ENGINEER MEB DESIGN - DETAILED CHECKED REVISIONS FIELD CHANGES

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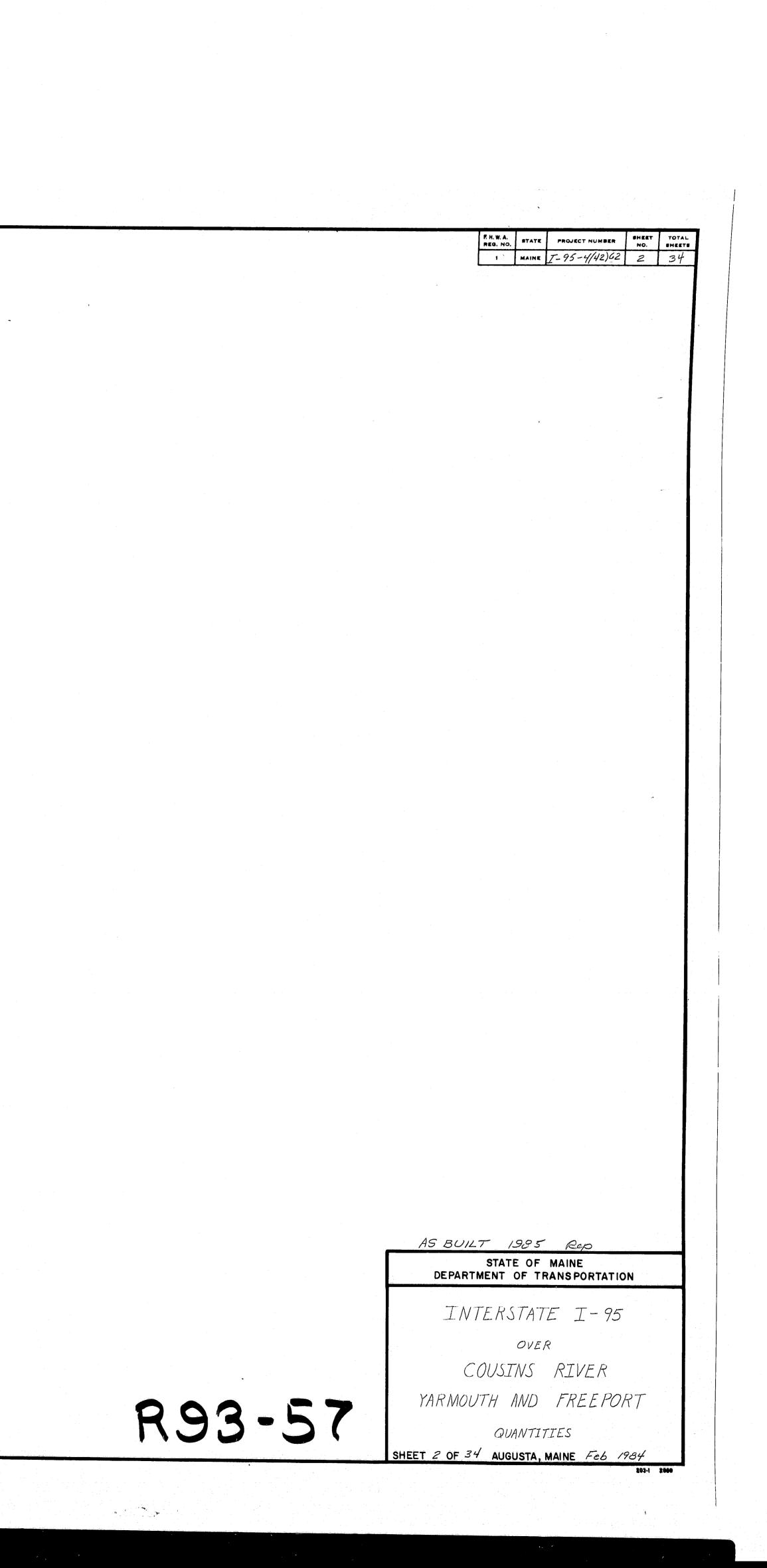
# ESTIMATED QUANTITIES ITEM NO. DESCRIPTION QUANTITY UNIT 652,31 Type I Barricodes 10 Each 652.35 Construction Signs 300 S.F. 652.361 Mointenance of Traffic Control Devices L.S. / 652.38 Flogger 300 M.H. 656.50 Baled Hay, In Place. Each 15 656.51 Sandbags, In Place 15 Each 657.24 Seeding Pits 15 Unit 659.10 Mobilization L. S. / 660.21 On-the-Job Training (Bid) M. H. 1000 Estimate of Lump Sum Quantities 502.26 Str. Concrete Roodway & Sidewalk Slabs on Steel Bridges 262 С. У. 502.31 Str. Concrete Approach Slabs 60 Str. Steel Fab & Delivered 504.70 288,000 LBS. 504.71 Str. Steel Erection 288,000 LBS. 505.08 Shear Connectors 3048 Each

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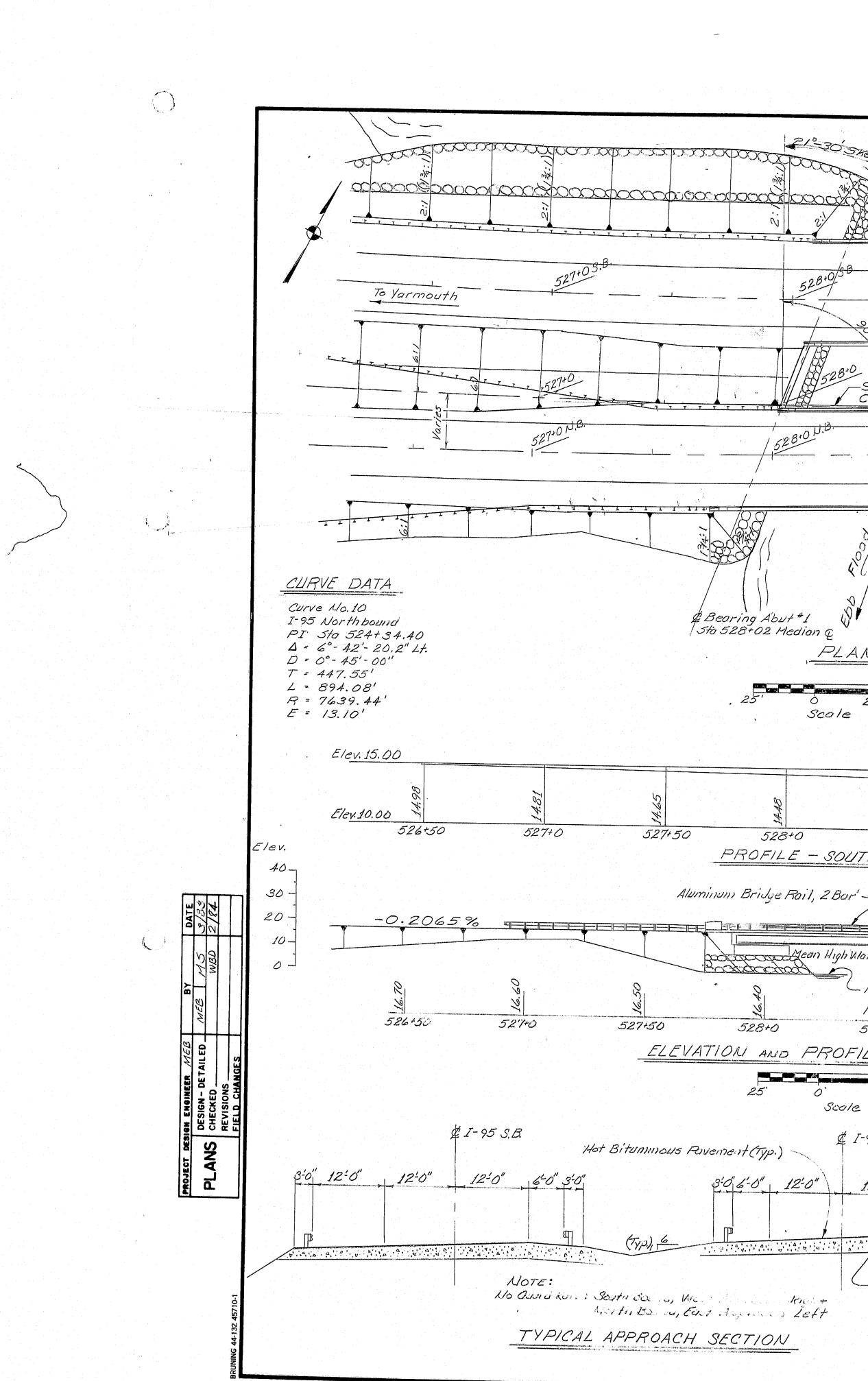
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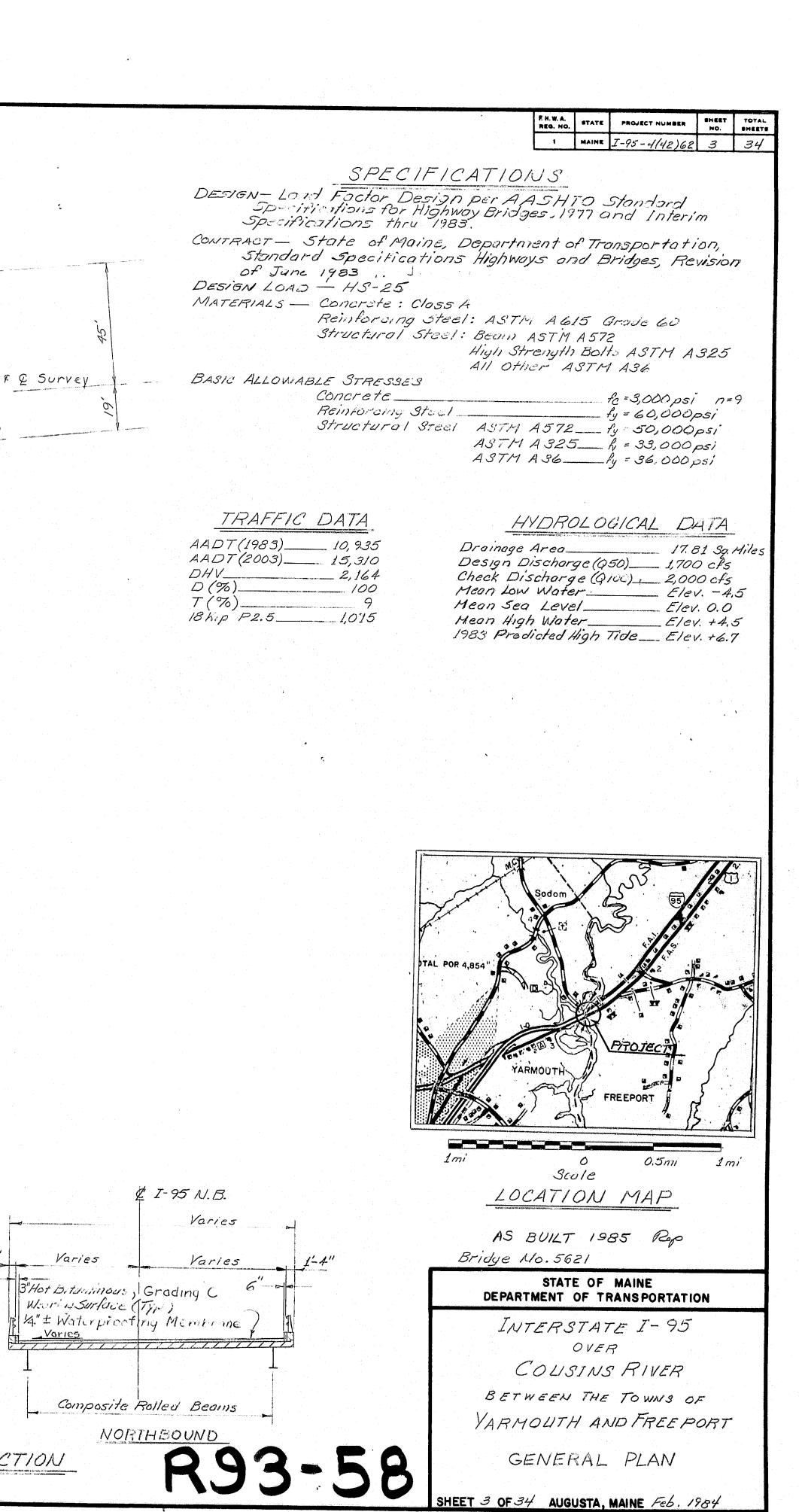
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21°-30'SHEW(TYD) TT TTTTT - & I-95 S.B. 528+(" 11/1/528+0 - & Median & & Survey -95 O"Chord C-C Bearings C& I-95 N.B To Freeport Guard Rail Type 36 (Typ.) (By Others) manabaaadaaaabaaabaa harbootoboood = Sta 528+77.69 Median &, 19.00' Right CURVE DATA d' Bearing Abut #2 1 Sta. 528+97 Mediang Curve No. 1 Curve No. 8 Curve No. 11 I-95 Northbound Median Centerline P.I. Sta. 530+96.88 I-95 Southbound 

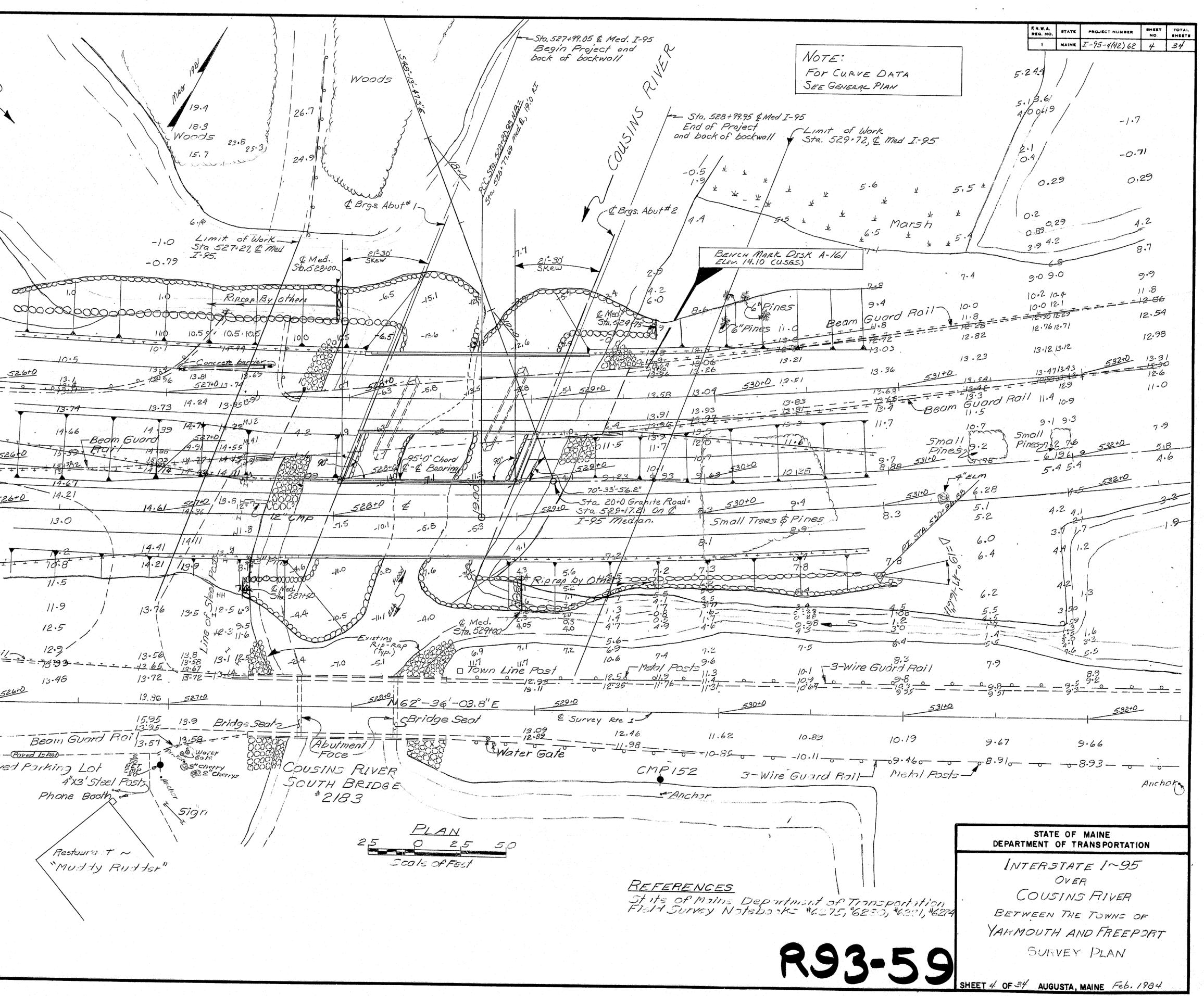
 PI Sta 530+89.03
 PI Sta. 532+62.6

  $\Delta = 19^{\circ} - 47' - 16.6'' Lt.$   $\Delta = 11^{\circ} - 21' - 31.3'' Lt.$ 
 $D = 1^{\circ} - 31' - 04.4''$   $D = 1^{\circ} - 29' - 33.3''$ 
PI Sta. 532+62.69 PLAN  $\Delta = 19^{\circ} - 47' - 16.6''' Lt.$   $D = 1^{\circ} - 30' - 00'''$  T = 666.23'T = 658.38' T = 381.76' L= 1319.20' L = 761.01' R = 3838.72' E = 18.94' L = 1303.66' R = 38/9,72' R = 3774.72' Scole E=57.67' E = 56.99' -0.33% 528+50 529+0 529+50 530+0 530+50 PROFILE - SOUTHBOUND Guard Roil, Type 36 (Typ.) (By Others) - Concrete End Post (Typ.) Bachanatan High Wloter, Elev 4.5 5 have an a construction and a construction of a - Mean Sea Level, Elev. O. O 16.29 16.19 528+50 529+0 529+50 530+0 530+50 ELEVATION AND PROFILE - NORTHBOUND 25'50 Scale ¢ I-95 S.B. Varies \$ I-95 N.B. 1-4" Varies Varies j-4" Varies <u>[-</u>4" 12:0" 10:0" 3:0" Guard Rail Type 3 (Typ.) 5/8"/ft. 1 (Typ.) Agyregate Subbase Course - Gravel (Typ.) Composite Rolled Beams Structural Concrete Shak Typ.) SOUTHBOUND BRIDGE SECTION





 $\bigcap$ 5.8 6.0 5.5 6-2 5.6 45.0 5.4 5.8 2/6 Marsh 5.4 61 410 7.0 000000000000 7.6 7.3 8.1 8.5 9.3 9.1 € I 95 SB 11.4 525+0 2.2 13.03. -12-92 13.05 0\_\_\_\_0/3 13-77 13.78 13:73 13.81 14.61 14.68 14.68 14.77 SESTO MEDIAN & SURVEY 15+35 15.53 15.9 + 45 69+ + 11.8 15.9 ---- 15-30\_\_\_. \$ I-95 NB-12.5 14.7 525+0 14.21 13.4 526+0 10.1 8.0 13.0 10.4 10.2 8.5 -9.1 8-0 8-1 7-7 8.5 7.6 7-8 8.2 8.5 7.6 7.8 11.5 14" WILLOW 3.6 8.6 8.9 Ø DATE 2/84 11.9 10.9 12.5 Beom Guard Rail 13-48 N-620-06-37.8"E 525+0 526+0 -Poved Istant-Paved Island Paved Parking Lot €
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PLANS DESIGN - DETAILED MER N/EP /2/ CHECKED UUBD 2/ REVISIONS	ROJECT DES	IOJECT DESIGN ENGINEER MEB	BΥ		DATE
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Anna I

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NORTHBOUND

	F.H.W.A. STATE PROJECT NUMBER SHEET T REG. NO. STATE PROJECT NUMBER NO. SI
	1 MAINE I-95-4142)62 5 3
GENERAL CONSTRU	ICTION NOTES
1 All utility facilities shall be adj	justed by the respective utilities
unless noted.	n an frainn an tha an tha ann an t An tha ann an tha ann a An tha ann an
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2. For easements, construction lim. refer to Right-of-Way Map.	ind und right - of - way thes
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3. — Place a 2 foot wide strip of so top of the riprap.	od on the side slopes along the
na na sina na s Manazari na sina na sina Manazari na sina	a de la segura de la seconda de la construcción de la seconda de la seconda de la seconda de la seconda de la s Esta de la seconda de la se
4. — All embankment material, exception below Elevation 6.00, shall be requirements of Subsection 703. Backfill.	opt as otherwise shown, placed
requirements of Subsection 703. Backfill.	19, Material for Underwater
	n markan kanala kanala kanala kanala sa kanala k Kanala kanala kanala Kanala kanala
5 Removal of the Existing Bridge	e shall include the removal of
The superstucture, removal of f	he abiltment parturalle dound
to the bridge seat elevations, I the elevation of adjacent bridg	e seats, and remained of the
Pre- IC IC CEPTIT OF C FEET	below the face of riprap or to Whichever is higher. Poyment will
be made Under Item 202.19, Removi	ing Existing Bridge, Lump Sum.
6. This Project shall be built in 7	two stages described as follows:
Stage I ~ The abutments (stage I	) for northbound and the
Stage I ~ The abutments (stage I northbound superstucture shall placed as shown on the plane	be constructed and backfill
placed as shown on the plans. A detour (by others) shall be southbound traffic over the no.	constructed to route
southbound traffic over the no.	rthbound span.
Stage II ~ The existing southb	ound bridge shall be removed
to the limits described in note for southbound and the southbour	not superstructure shall be
constructed, and backfill placed	as shown on the plans.
AS BUILT NO	
The abutoments moved towards each a	other and as a result the arms 1
The abutments moved towards each a joint opening at abutment 1 staged to the point that we were seal. D	ge - (northbound structure)
seal. Rep	anable to install the complession
I Vep	
	AS BUILT 1985 Rep
	AS BUILT 1985 Rep STATE OF MAINE
	STATE OF MAINE DEPARTMENT OF TRANSPORTATION
	STATE OF MAINE DEPARTMENT OF TRANSPORTATION INTERSTATE I- 95
	STATE OF MAINE DEPARTMENT OF TRANSPORTATION INTERSTATE I- 95 OVER
	STATE OF MAINE DEPARTMENT OF TRANSPORTATION INTERSTATE I- 95 OVER COUSINS RIVER
	STATE OF MAINE DEPARTMENT OF TRANSPORTATION INTERSTATE I- 95 OVER
Q92.CA	STATE OF MAINE DEPARTMENT OF TRANSPORTATION INTERSTATE I- 95 OVER COUSINS RIVER YARMOUTH AND FREEPORT
R93-60	STATE OF MAINE DEPARTMENT OF TRANSPORTATION INTERSTATE I- 95 OVER COUSINS RIVER YARMOUTH AND FREEPORT PROFILE AND CONSTRUCTION LIM

• • • •



					E Bearings, Abut #1 Sta. 528 + 14.72	# Bearings, Abut #2 Sta. 529+ 09.90		
lev. 30.00					Sta. 328 + 14. 12	Sta, 529+ 09.90		
24. 25.00			X H			×	<b>34</b>	
			oht.	2-113	95' Beam Span	2-111/2"	88	<del>нбуд</del>
V. 20.00	andra ann an Aonaichte An Aonaichte an Aonaichte An Aonaichte an Aonaichte an Aonaichte		t of 527	Bock of Bock wall-		-Bock of Bockwoll 5	25.9+	
		Finish Grade						estat magnan <sup>si</sup> te ya a si sant isi ka cui ka
		ng Ground -	Lim Sta.	Approach Slab-	-8"Struct. Conc. Slab		27a	
V, 15.00	-0.33%	/				ce Approach Slab		
			- By Others					Ander of the Protocol of the California of the C
v. 10.00	Subgrade		F		- W36 × 230	By Other		
			12"Gravel Bo	www.				
					Mean High Water Elev.		Subgrade -	
V. 5.00			Granular Borr	pm		Granular Borro	2W	
					Menn Sen level			
v. 0.00		•	,	Drains-	Mean Sea Level Elev. 0.0	French Drain	<b>S</b>	
				and a superior of the second		9		
				H-Beam Piles	Plain Riprap -	H-Beam Piles		
<u>v5.00</u>								
v10.00	*****							
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				and a second				<b>NATE</b> (1997)
		n 1919 - Anna Anna Anna Anna Anna Anna Anna						
- 20.00			an mya waka mana kana kana kana kana kana kana k					
14	00		5		Q			
- 25.00	7.	<del>/</del> 8	7. 6	48	<u>, , , , , , , , , , , , , , , , , , , </u>	66	8	

PROJECT DES	MOJECT DESIGN ENGINEER MEB	8		DATI
	DESIGN - DETAILED	NEB	NEP	12/
PLANS	CHECKED		WBD	2
	REVISIONS			

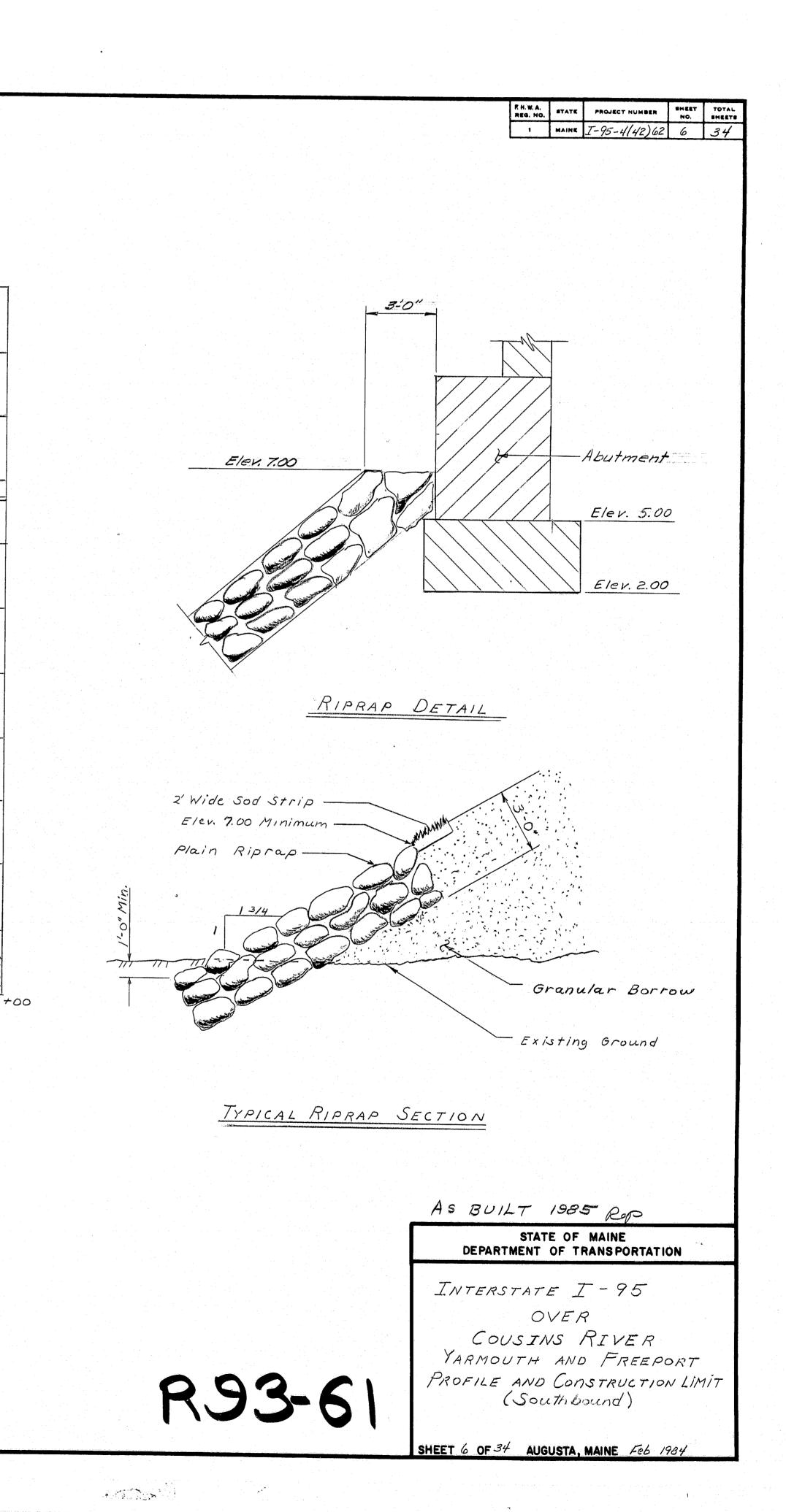
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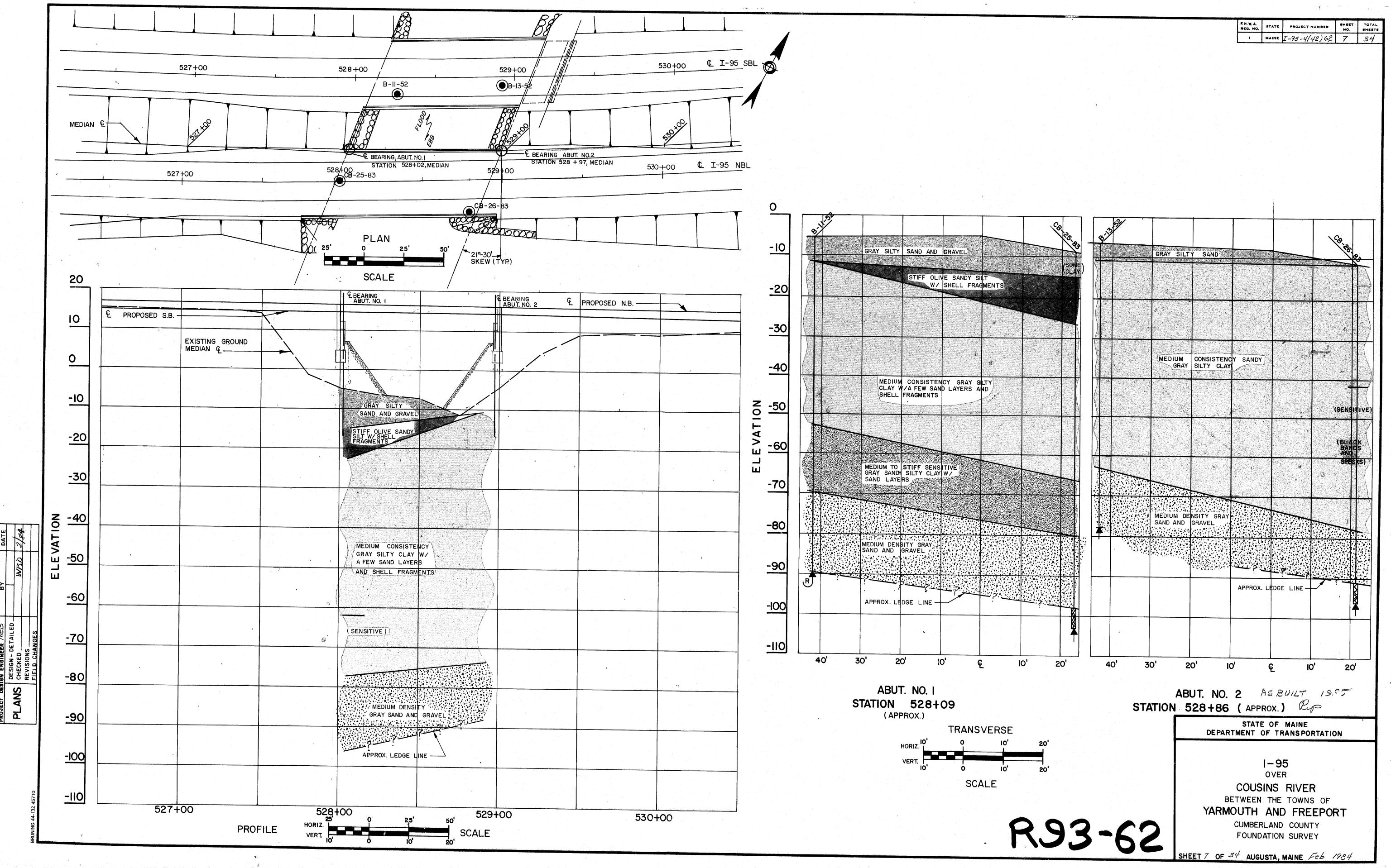
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SOUTH BOUND





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WISD 2/84 DESIGN - DET DESIGN - DET CHECKED REVISIONS PROJECT DESIG

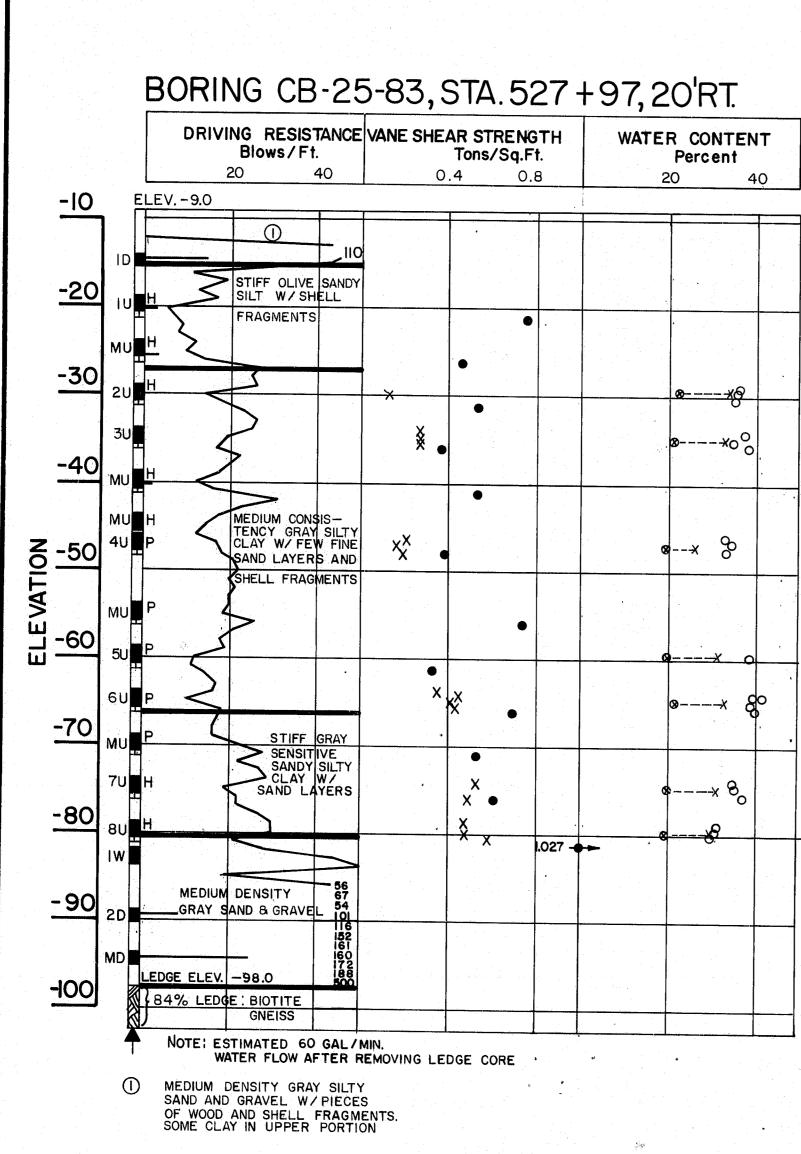
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ROJECT DE	PROJECT DESIGN ENGINEER MEB	ВҮ	DATE
	DESIGN - DETAILED		-
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	REVISIONS		
	FIELD CHANGES		

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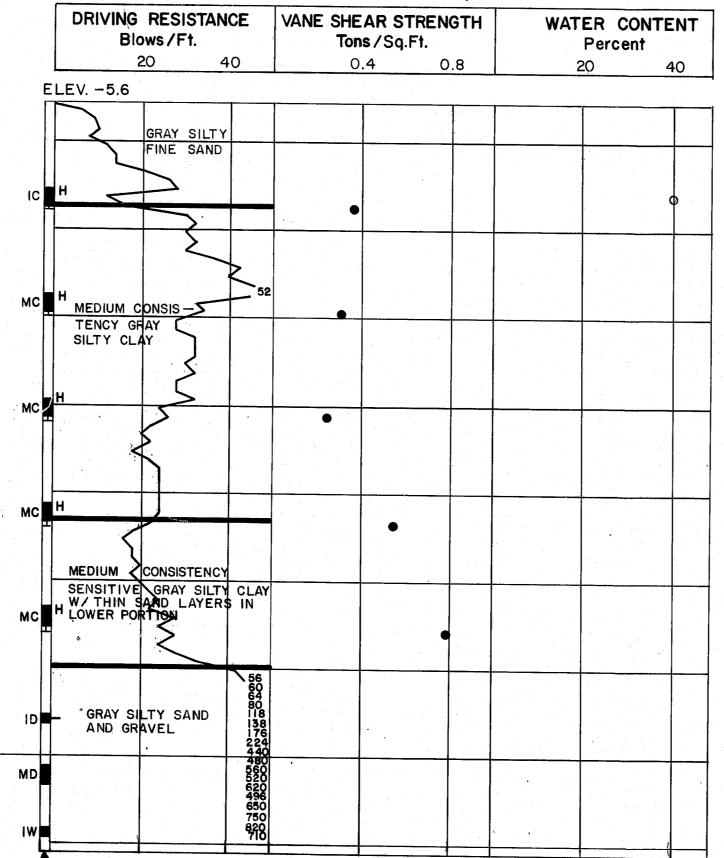
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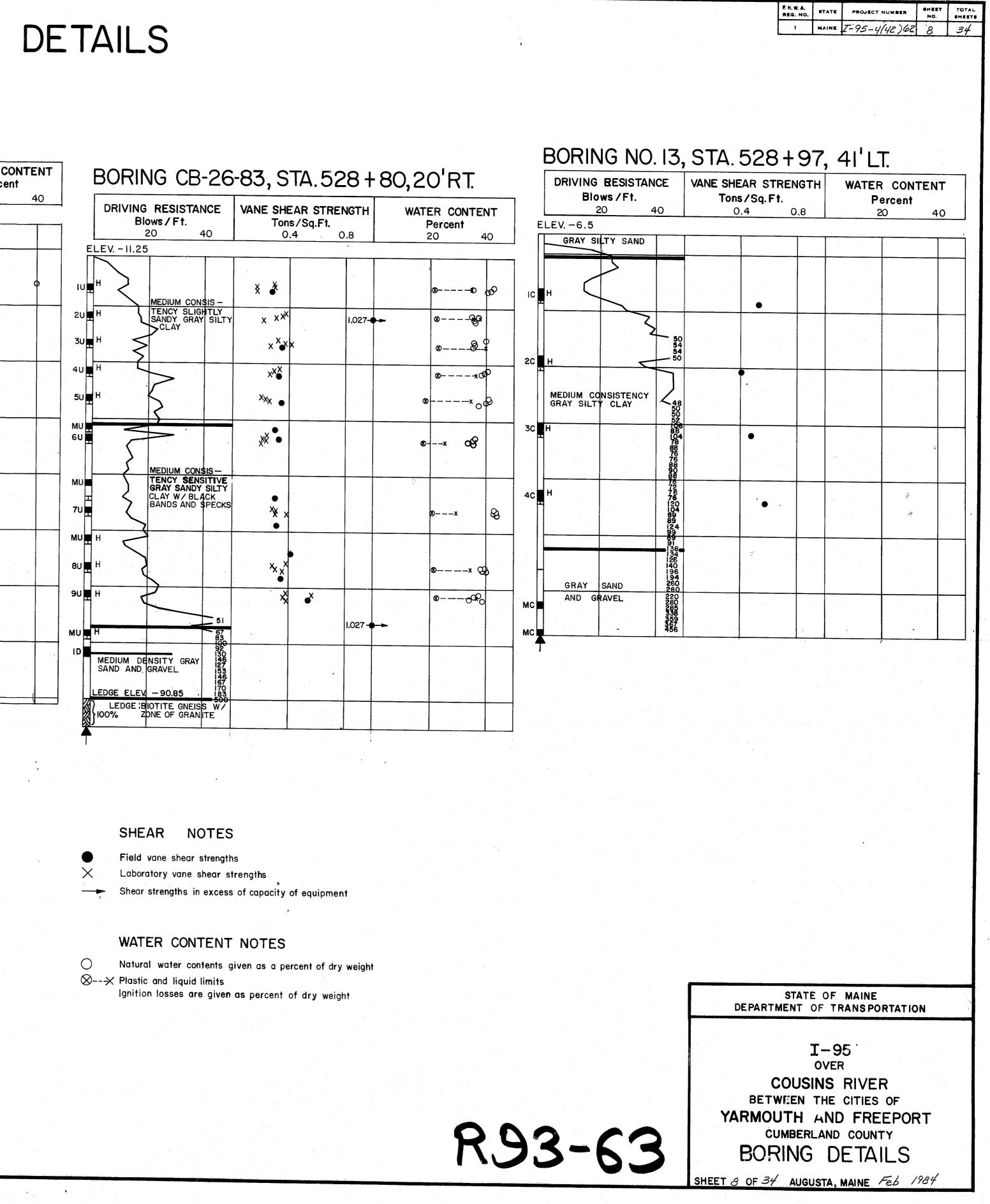
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# BORING DETAILS

# BORING NO.11, STA. 528 + 31, 35'LT.





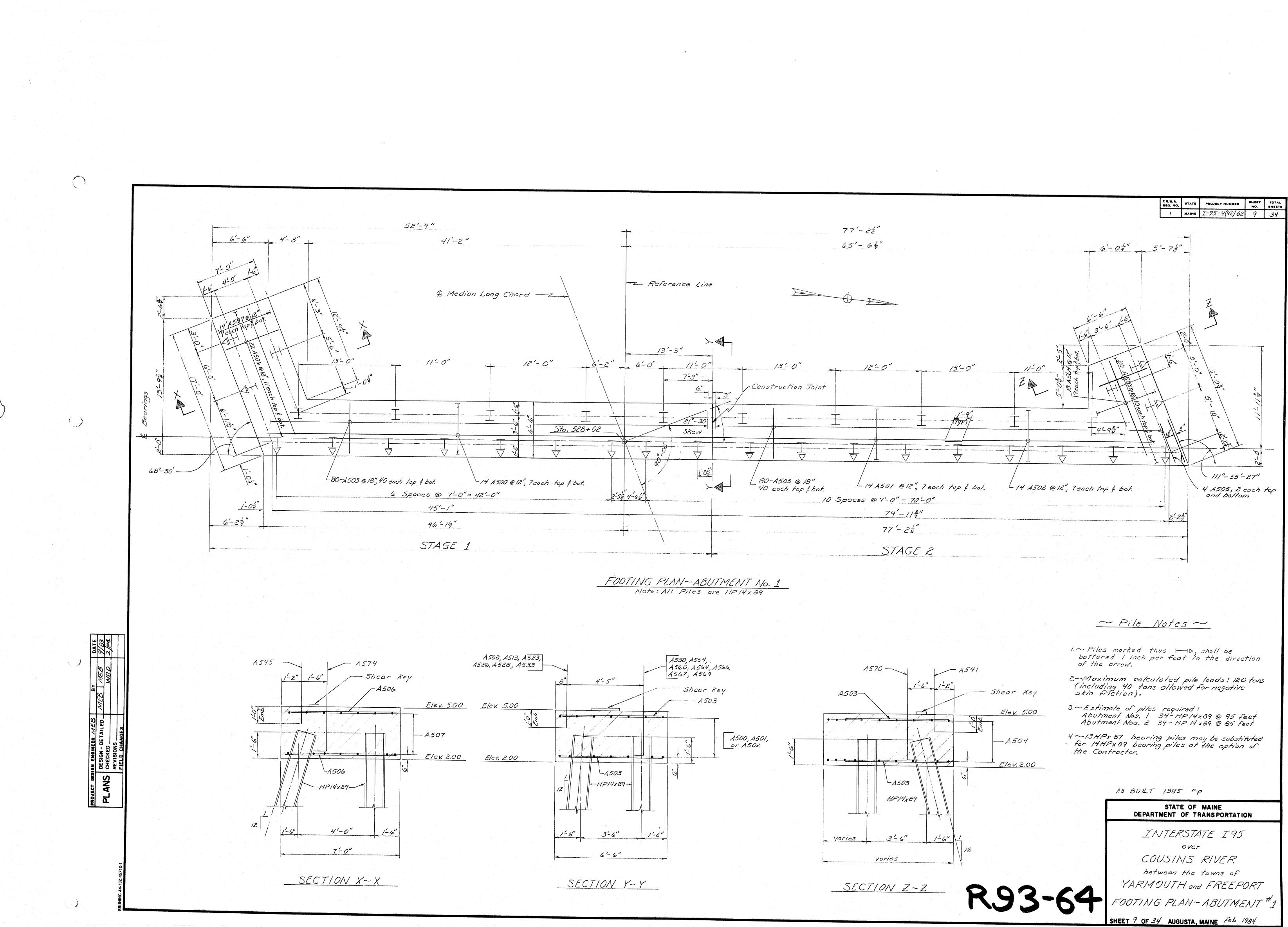
## BORING NOTES

R

All samples and vanes are made ahead of casing
Number of blows required to drive extra heavy casing one foot with 400 ft. lbs. of energy per blow
Location of sample or sample attempt
Number and type of dry sample
S&H Sampler #1290's
2" O.D. 16 ga. seamless tubing
3 1/2" O.D. 16 ga. seamless tubing
Wash sample and number
Unsuccessful sample attempt and type of sampler
Number of blows required to drive spoon or tubing one foot with 350 ft.lbs of energy per blow
Sampling spoon or seamless tubing driven by static weight of drill rods and hammer
Piston sampler
Field vane test
Bottom of boring ( may not be bottom of soil strata)
Locations cored by diamond bit and percent recovery of rock

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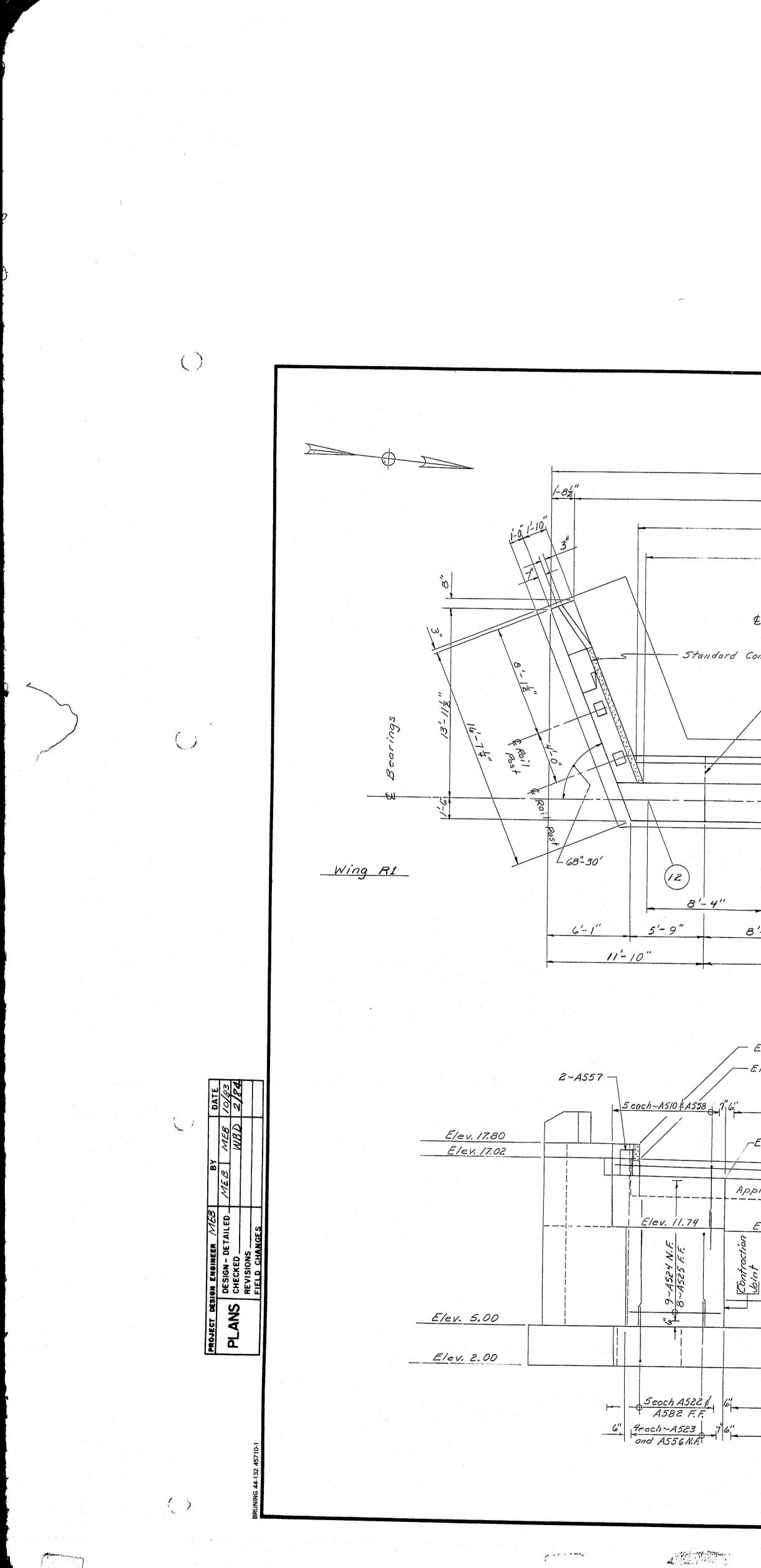




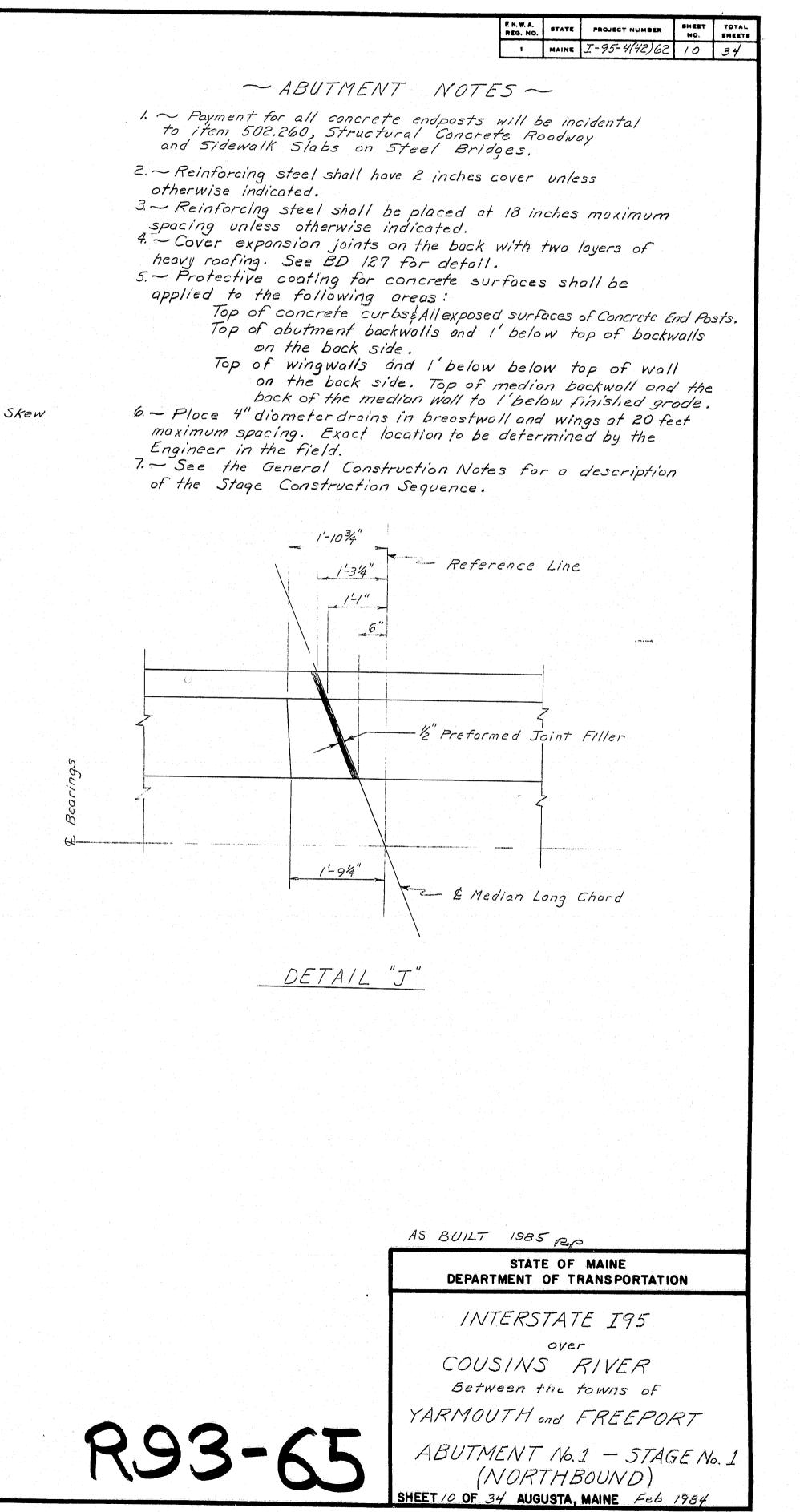
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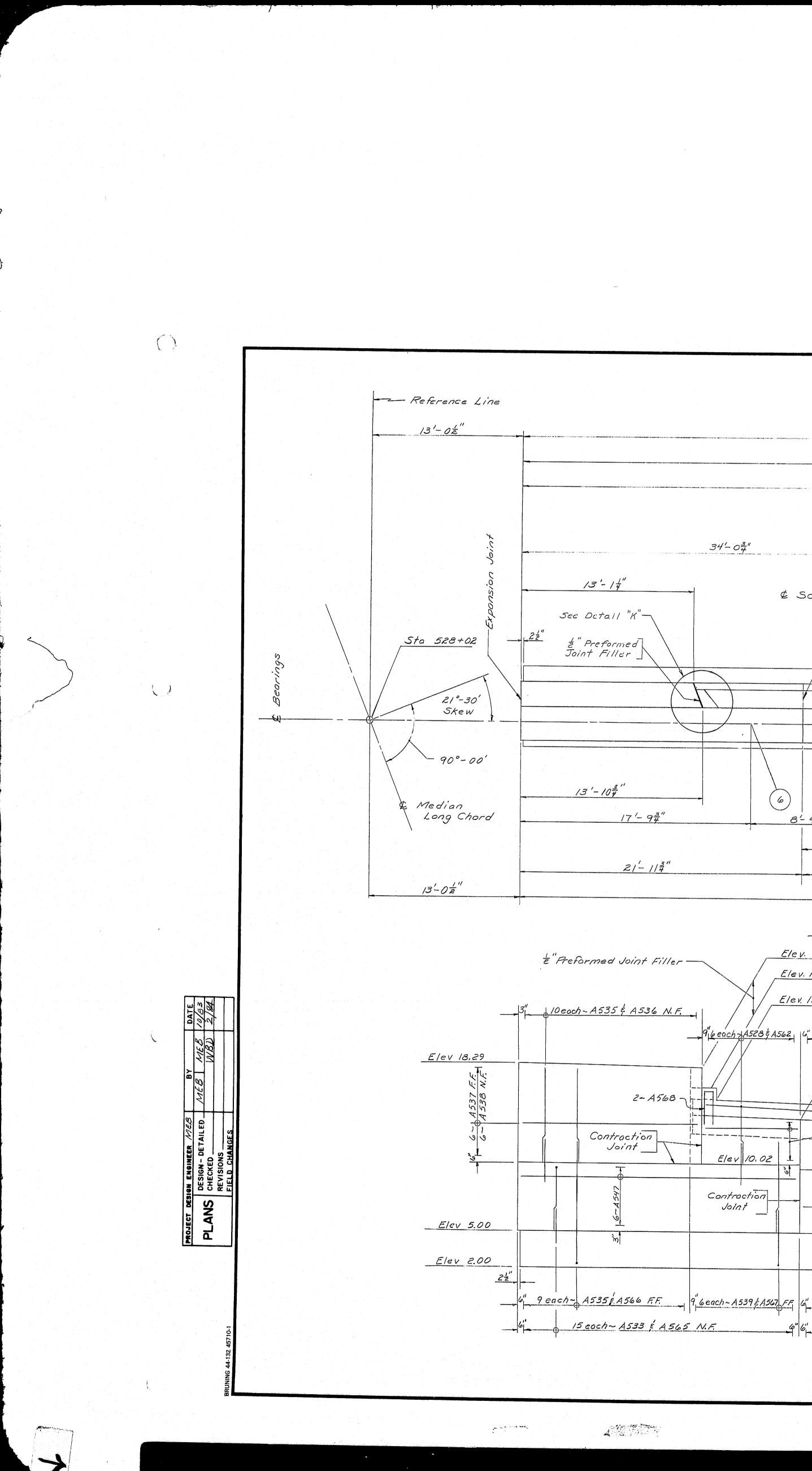




51-4" 13'-0" 49'-7'2" 44'-11'2" 44'-414" 21-32" & Northbound ------& Median Long Chord ------ See Detail "J" - Standard Concrete Endpost - 21°-30' Skew Sta. 528+02 - Contraction Joint -' Preformed \_\_\_\_\_ Joint Filler e: e: - 90°-00' 10) ( / / )(9)  $(\boldsymbol{s})$ 8'-4" 8'-4" 8'-4" 8'-4" 8'- 4" 8'- 4" 8'-4" 6-2" 25'-0" 14'- 6" 13'-0" PLAN VIEW - "Preformed Joint Filler - Elev. 17.77 Elev. 18.55 -----Elev. 17.02 - Elev. 16.40 Elev. 16.65 10 each-A515 \$ A516 N.F. + 17each ~ A510 & A552 616 9 eoch ~ A 510 \$ A 559 \$ Northbound 2~A512--Elev 15.66 Elev. 15,90 -Elev. 18.29 -Elev 15.00 Approach Slab Seat Contraction -2- A520 N.F. & 2-A521 F.F. Joint -----Elev. 11.52 Elev. 11.30 Elev. 11.07 Elev. 10.85 Elev. 10.62 Elev. 10.02 1-A520 N.F. 4 Contraction 4519 1-A521 F.F. Joint [ 06 × L Elev. 5.00 Elev. 2.00 17each - 4550 \$ 4509 F.F. " 9 each-A514 \$ A554 F.F. 62" 10each-A516 \$ A560 F.F. 17 eoch - A508 & A551 N.F. 19 each ~ A513 \$ A553 N.F. ELEVATION

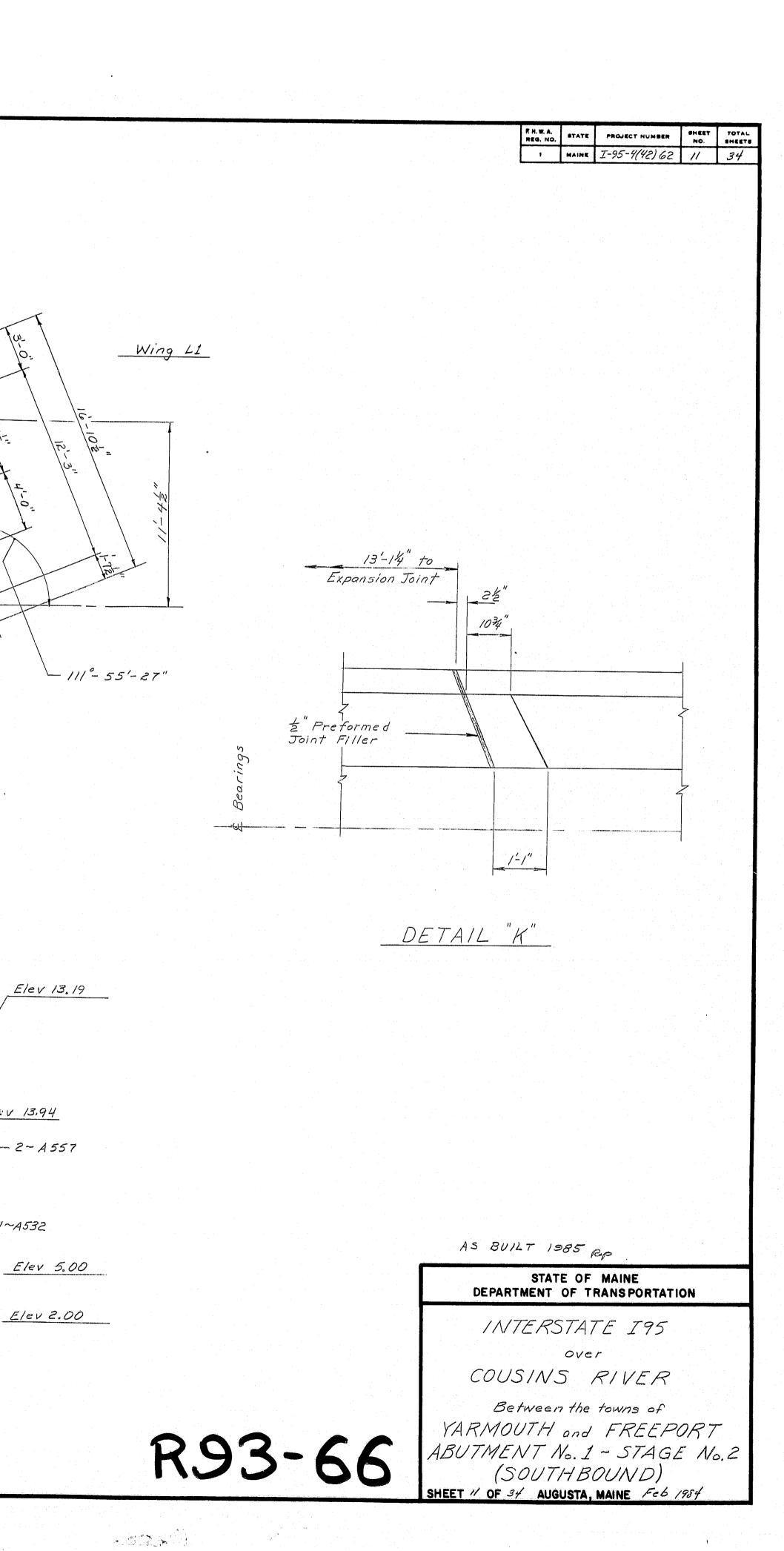






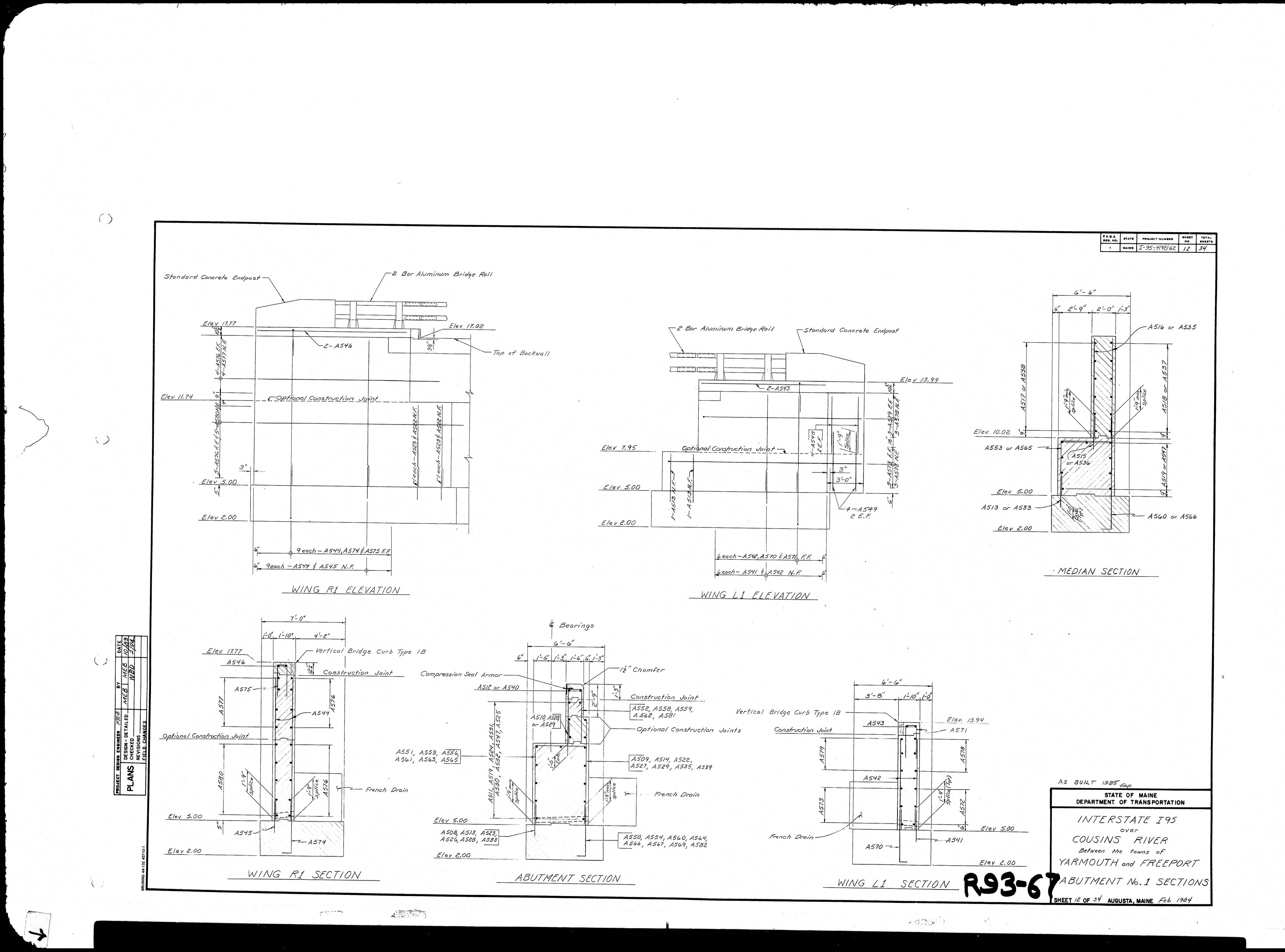
62'-10<del>3</del>" 57- 82" 5'-24" 54'-94" 1-82 1-22" 11-0" 34'-07 Standard Concrete Endpost - Contraction Joint (No Key) V (5) 6 (4) (3) (z) $( \prime )$ 8-4" 8'-4" 8'-4" 8'-4" 8'-4" 8'-4" 8'-4" 8'-4" 8'-4" 25'-0" 15'-11" 62'-10 3 " \_PLAN VIEW Elev. 18.02 Elev. 16,12 Elev. 15,37 Elev 14.44 -9 6 each - 4528 \$ A562 16" . 17each ~ A528 \$ A562 -16"5" 10 each-A529 \$ 4581 Elev 13.80 & Southbound Elev 12.56 -2-A540 Elev 13.94 3-A542 N.F. 3=A509F.F.--• •••• |--- •••• •••• ---- -----------Construction Joint 2- 2- A 557 15 ] ------1511 15122 Elev 10.02 Contraction Joint ----Elev 9,61 Elev 9,19 10 Elev 8.78 0 Elev 8.37 M L \_\_\_\_\_ IElev 7.95 453 Contraction - Approach Slab Seat 1~A532 Joint 17 coch - A527 \$ A569 F.F. 11 cach - A529 \$ A564 F.F. 5 66 17 eoch - A526 \$ A561 N.F. 4"6-11eoch- A528 & A563 N.F. 66 ELEVATION

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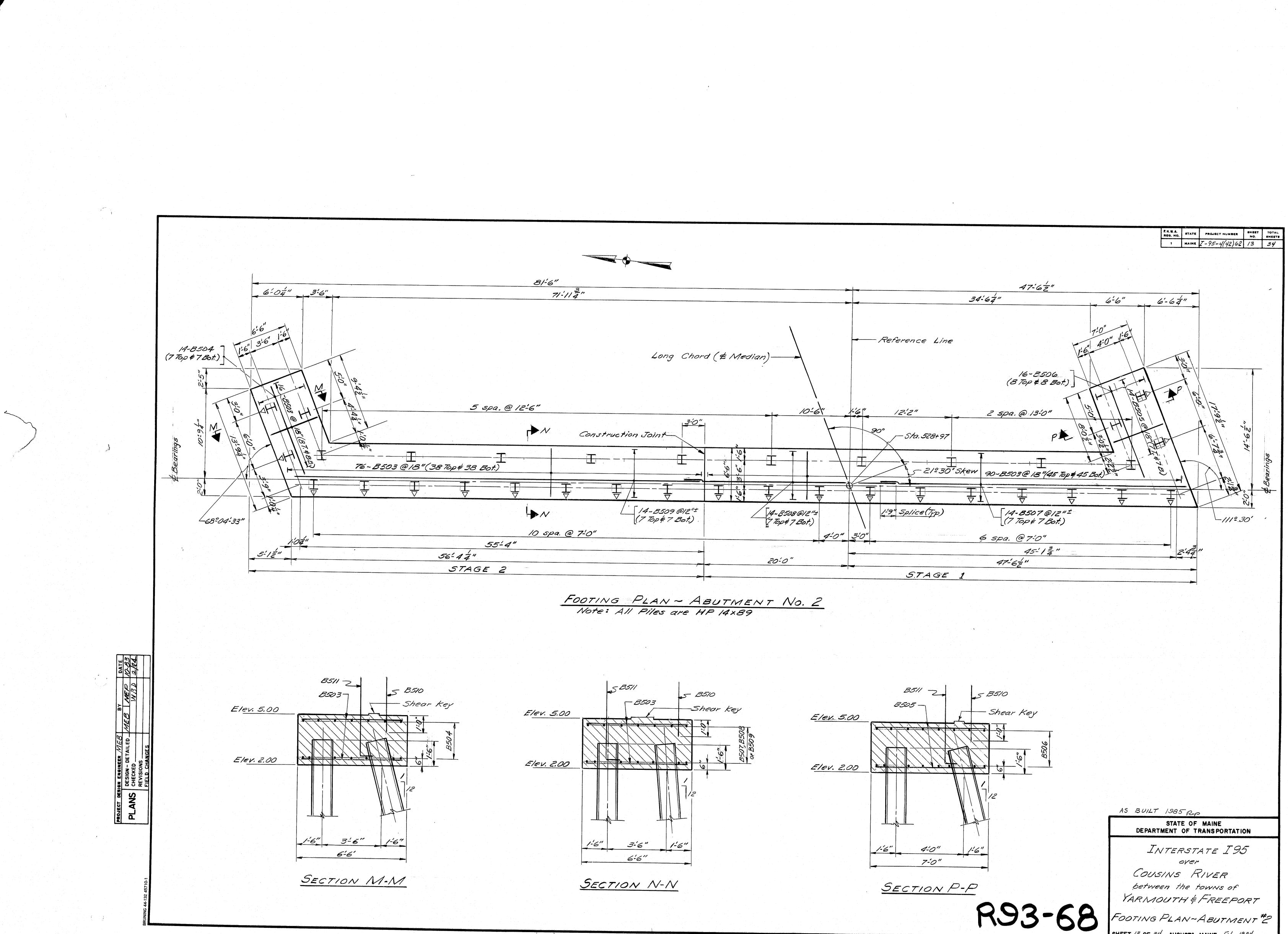


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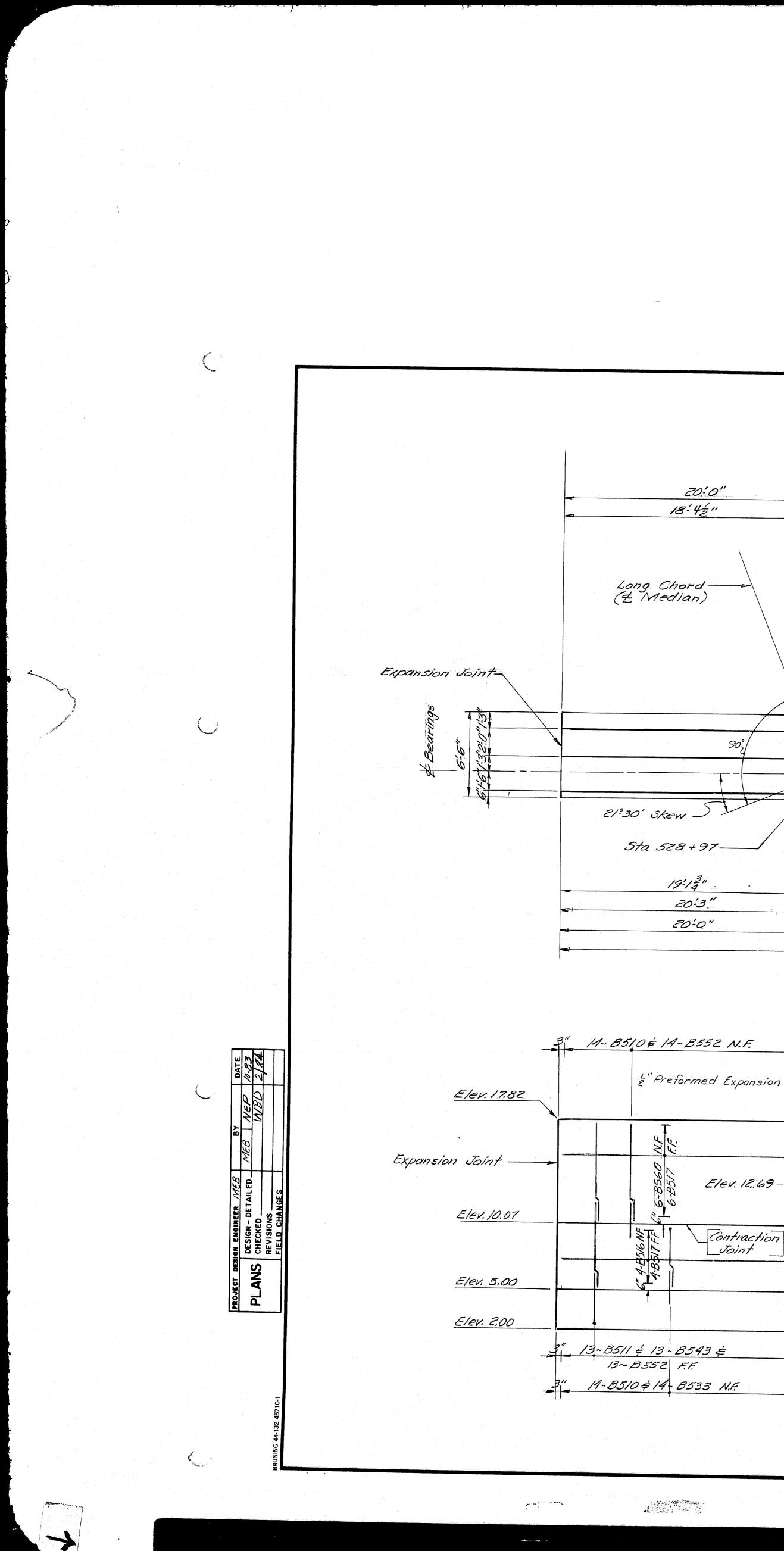


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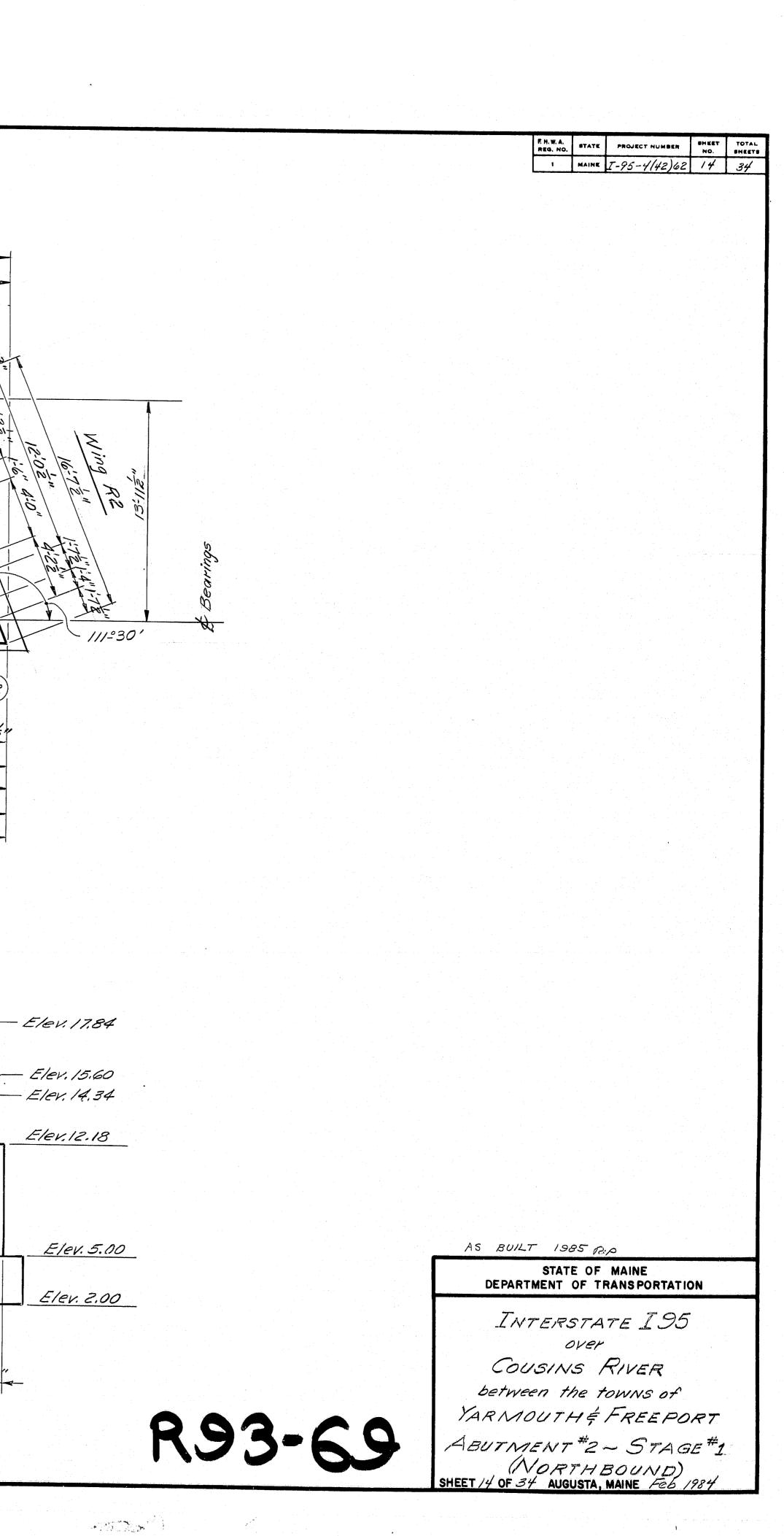
7/2	AS BUILT 1985 Rop
	STATE OF MAINE DEPARTMENT OF TRANSPORTATION
1.6"	INTERSTATE I95 over Cousins River
<u>-</u> <i>P</i>	between the towns of YARMOUTH & FREEPORT
R93-68	FOOTING PLAN~ABUTMENT #2 SHEET 13 OF 34 AUGUSTA, MAINE Feb 1984



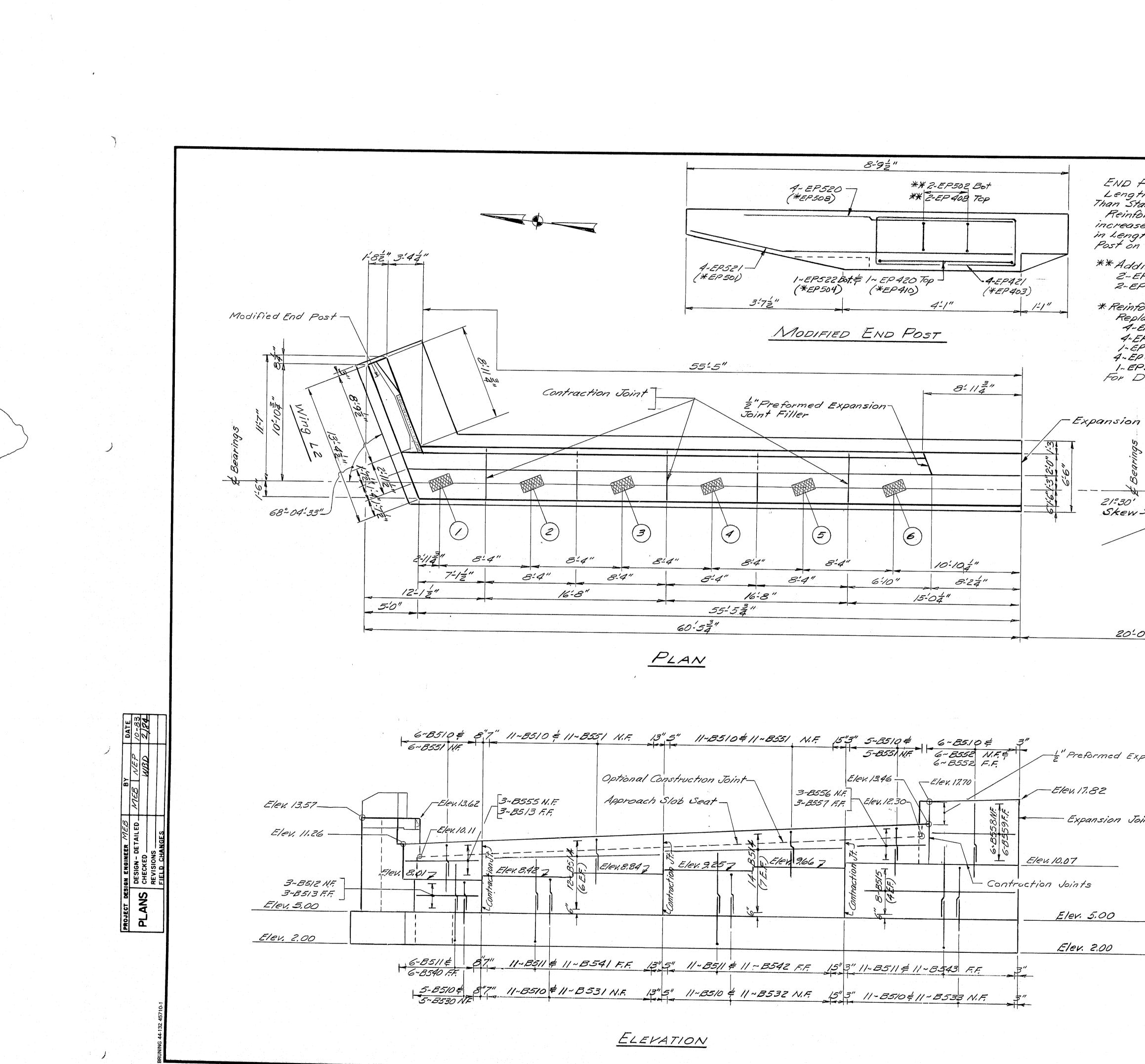


46-34" 40-94 5-6" 1-13" 39:03" Standard Concrete Endpost\_ - Reference Line 10:31 E"Preformed Expansion Joint Filler Contraction Joint 90°,/  $\overline{\mathcal{P}}$ (8) 9  $(\prime\prime)$ (10)(12)1041 6. 8:4" 8:4" 8-4" 8-4" 8-4" 2-72" P 6-2" 8-4" 8-4" 8:4" 8:4" 1 6-94" 14-3" 15-14" 16-8" . . 46-34" 66-34" PLAN 11-8510 # 11-8551 N.F. 6"8" 11-13510 # 11-8551 N.F. 12"6" 10-8510 # 10 8551 N.F. 11 "Preformed Expansion Joint Filler-Approach Slab Seat-TElev 18.02 Elev. 17.86 Optional Const. Joint-3-8562 N.F. 3-8522 F.F. 3-8561 N.F. 3.8519 F.F. V-Elev. 13.85 Elev. 12:69-خند مصدري -----\_\_\_\_\_ -----Elev. 11867 Elev. 10,867 Elev. 11.207 00 Elev. 11:53-2 Elev. 10.517 SN.F Contraction Joint in 11-8511 \$ 11-8544 F.F. 6'8" 11-B511 \$ 11-B545 F.F 13 6" 10-8511 \$ 10- 8546 FF 10-8510\$10-8535 NF. 68" 11-8510\$ 11-8536 N.F. 12"6" 11-8510 \$ 11-8537 NF 3" ELEVATION

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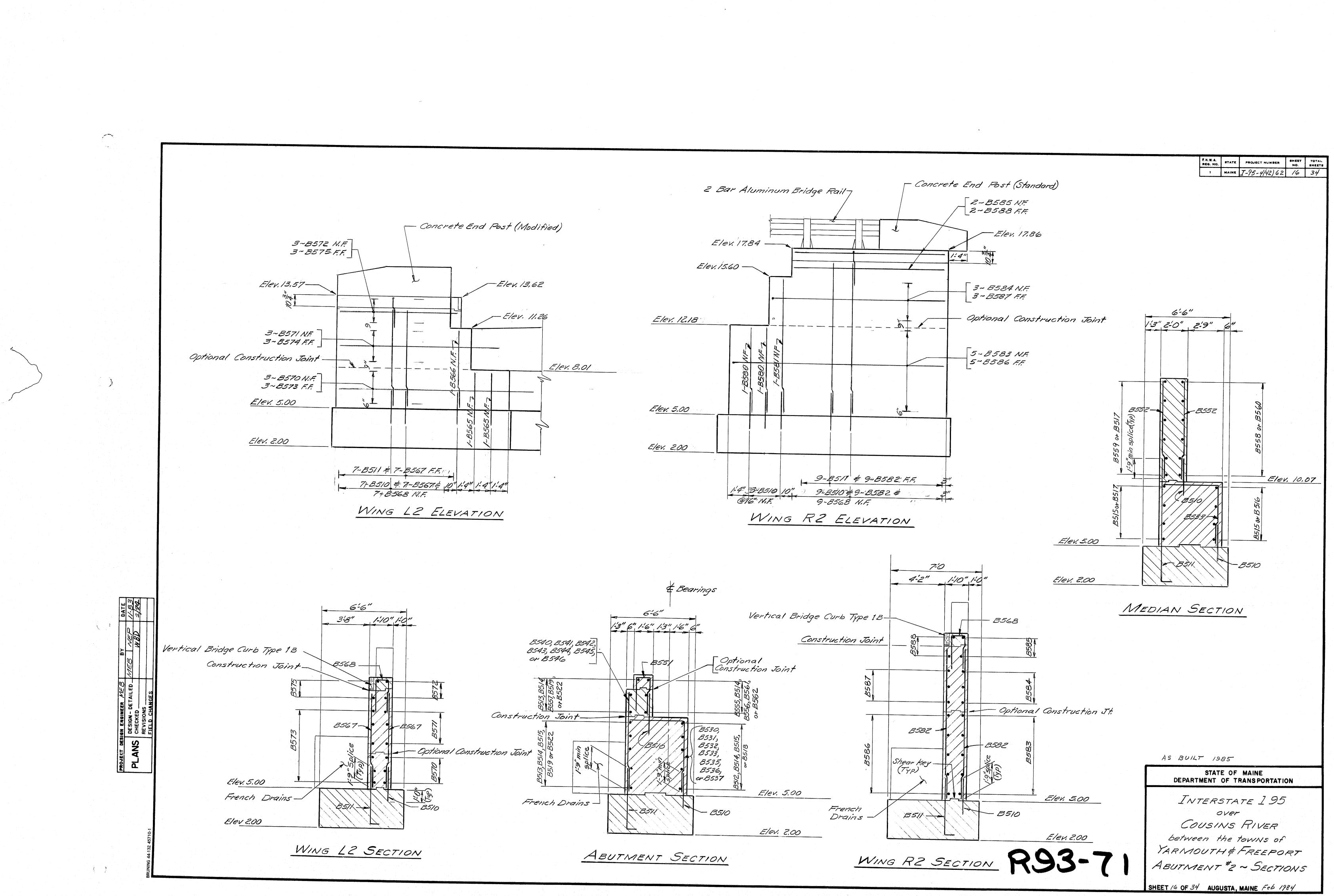
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		F. H. W. A. REG. NO.	STATE	PROJECT NUMBER	SHEET NO.	TOTAL BHEET
of End Post 2:2" Longer		<b></b>	MAINE	I-95-4(42)61	2 15	34
dard End Post						
ing Steel Detailed is that in Number or Changed from the Standard End						
30 120-81						
ional Reinforcing Steel Required						
502 408						
cino sterl Replacements.						
cing Steel Replacements: ement Old Designation 520 EP 508						
521 EP.501						
120 EP 410 121 EP 403						
tails not shown see Standard Details.						
				•		
<del>7"</del> •						
Joint						
- Sta. 528+97						
Long Chard						
Long Chord ( Median )						an an ta
					- •,	
90°5						
- Reference Line				•		
nsion Joint Filler						
				. •		
	AS BUILT			MAINE	<u>.</u>	
	DEPAR			RANSPORTAT	ION	
	IN	TERS	STA	TE I 9.	5	· · ·
		0	Ver		·	
				RIVER		
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002-70	IARM	OUTH	→ <i>Ę</i> . #	FREEP	0RT	
R93-70	ABUTN SHEET 15 OF 3	IENT	2	~ STAC	GE <sup>T</sup> Z	2
		11111	- <b></b>	SUNN)	1	1



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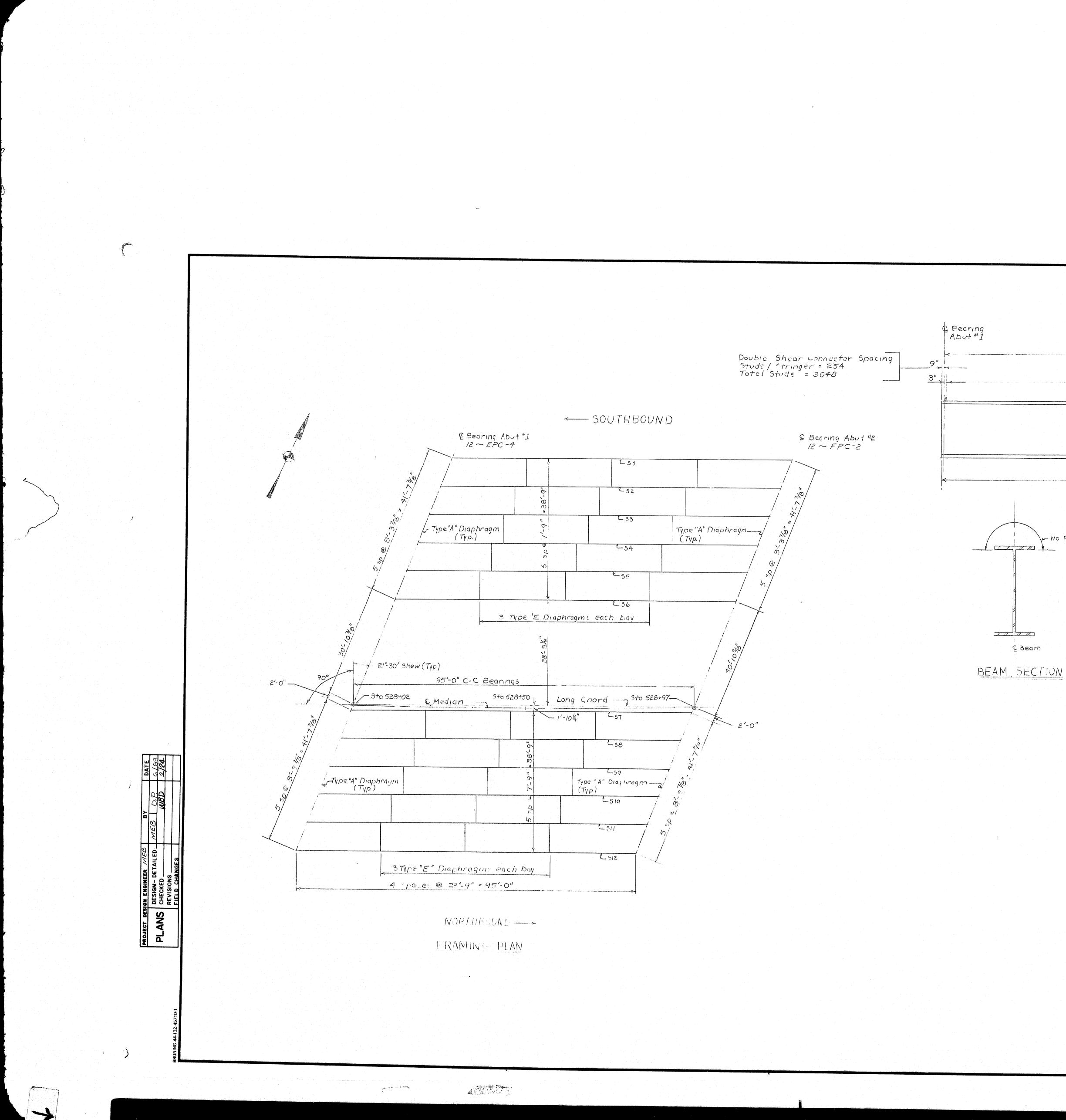
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				F.H.W.A. REG. NO.	STATE	PROJECT	NUMBER	SHEET NO.	TOTAL
95'-0" 126 space @ 9" = 94'-6" 3" W 36 × 230					MAINE	I-95-41	(42)62	17	34
95'-0" 126 space @ 9" = 94'-6" 3" W 36 × 230									
126 space: @ 9" = 94'-6" 3" W 36 × 230							¢ Bea Abu	ring + # 2	
126 space @ 9" = 94'-6" 3" W 36 × 230	<u> </u>	95'-0"							
W36×230									
W36×230		126 spaces @ 9" =	94'-6"			s in Annagen syndrog a dage stray	211		
W 36×230 (A512 Grade 50)									
W36×230 (A572 Grade 50)									
		W 36×230 (A512 Grade 50)				anda Maria Productional Productional			

BEAM ELEVATION

No Paint

STRUCTURAL STEEL NOTES 1 \_\_\_\_ Camber each beam, 434" up. The camber is to compensate for all dead load deflections.

2. \_\_ Cross-frame or diaphragm connection plate may be either plumb or normal to the top flange.

BASIC ALLOWABLE STRESSES

Structural Steel: A.S.T.M. A5T2 --- Fy = 50,000 psi A S.T.M. A36 --- Fy = 36,000 psi A S.T.M. A325 --- Fy = 33,000 psi

MATERIALS

Structural Sterl Stringer \_\_\_\_\_ A=TMA512 Grave 50 High Strength Bolt \_\_\_\_\_ ASTMA325, Typ 1 All Other \_\_\_\_\_ ASTM A36

YARMOUTH AND FREEPORT

STRUCTURAL STEEL SHEET 17 OF 34 AUGUSTA, MAINE Feb 1984

AS BUILT 1985 STATE OF MAINE DEPARTMENT OF TRANSPORTATION INTERSTATE I-95 OVER COUPINS INVES BETWEEN THE TOWN OF

R93-72

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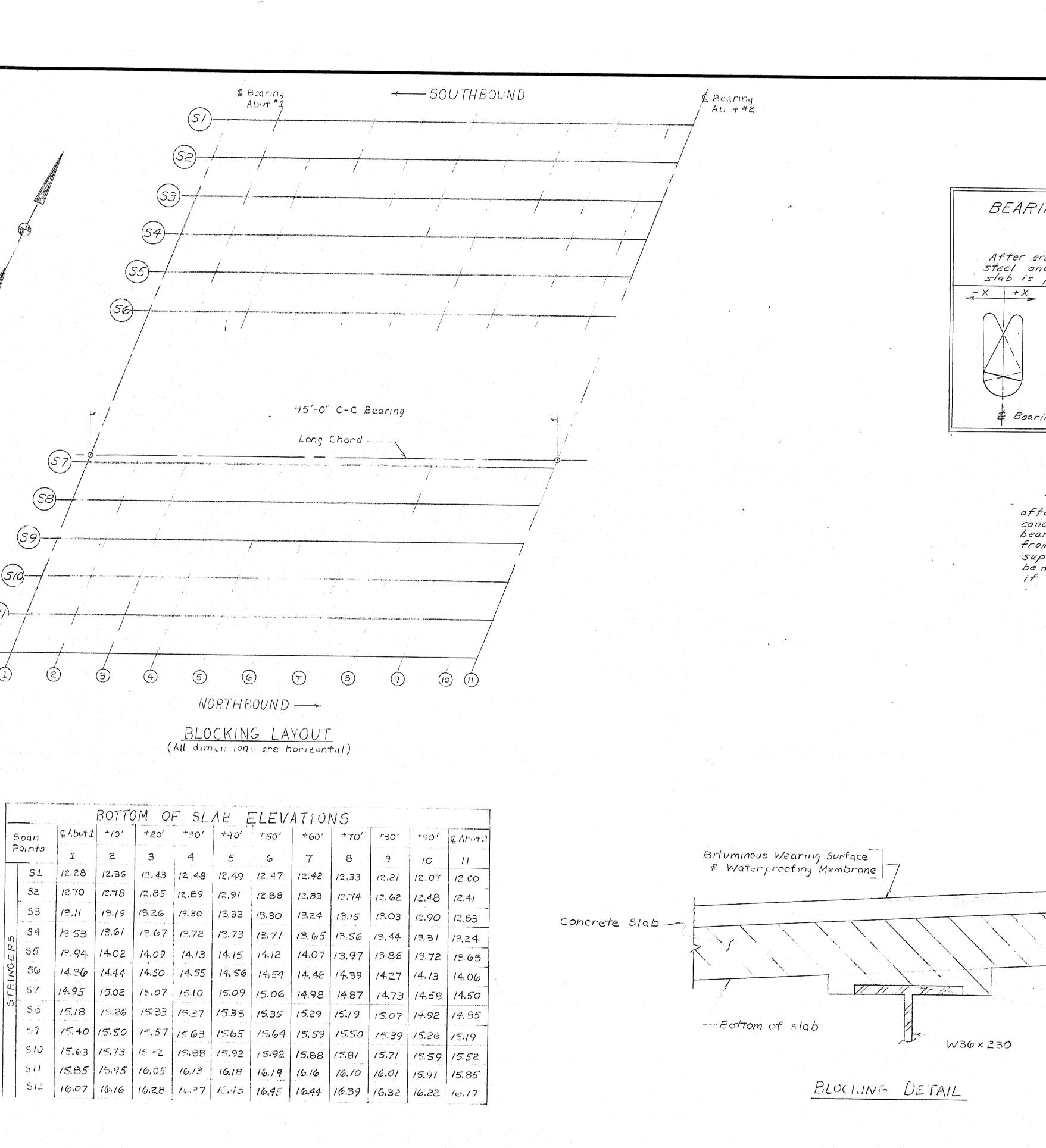


2						
					& Bear Abu- SI SZ Abu-	"1() y + " 1 
				54- (55)	1997 - 1997 - 1992 - 1992 - 1994 - 1995 - 19	ntantena (h
			(58)			95'-0" C Long Ch
			(59)		Managana - An anal - A an	
	6/BJTE	(5/2)-	1 2	3 4	5 NORTHBOU <u>BLOCKING</u> All dumention a	
	PLANS DESIGN - DE TAILED MEB BY D.P. DESIGN - DE TAILED MEB D.P. D.P. D.P. D.P. D.P. D.P. REVISIONS D.P. D.P. D.P. REVISIONS D.P. D.P. D.P. D.P. D.P. D.P. D.P. D.P		Span       Q Abut:         Points       1         S1       12.28         S2       12.70         S3       13.11         S4       13.53         S5       12.94         S2       14.36         S7       14.95	2 3 12.36 12.43 12.78 12.85 13.19 13.26 13.61 13.67 14.02 14.09 14.44 14.50	+ 30' + 40' + 4 4 5 12,48 12,49 12 12,89 12,91 12 13,30 13,32 13 13,72 13,73 13 14,13 14,15 14 14,55 14,56 14	EV/ATIONS 50' +60' 6 7 .47 12.42 12 .88 12.83 12 .30 13.24 13 .71 13.65 13 .12 14.07 13 .54 14.48 14 .06 14.98 14
			6) 53 15.18 59 15.40 510 15.63 511 15.85	15.73 15 HZ	15.63 15.65 15 15.88 15.92 15	.35 15.29 15 5.64 15.59 14 5.92 15.88 15

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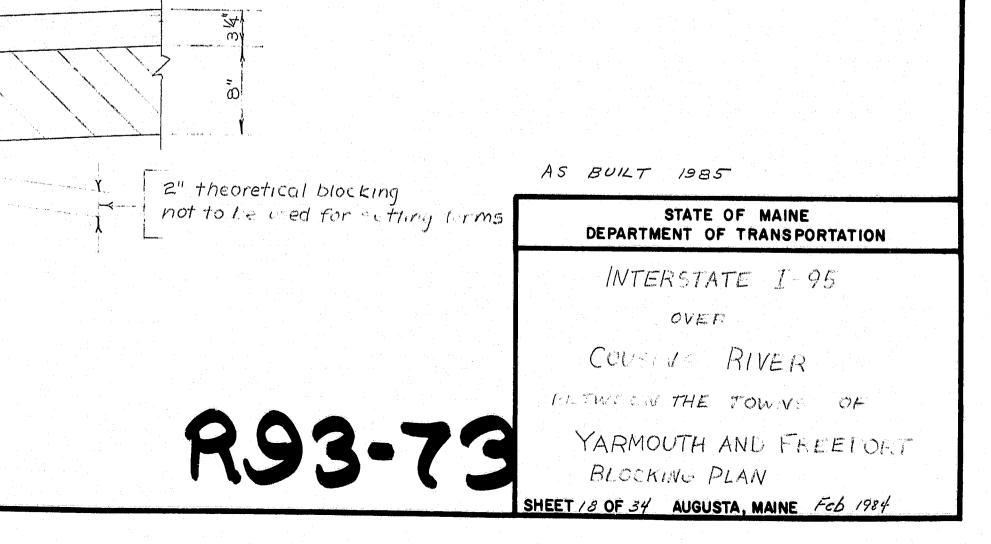
NG SETTING	a	Temp.	Abutment No. 1
DATA	62	'120°	-1/6"
	Setting	105°	+ 1/6"
erecting structural nd before concrete	Se	90°	+ 3/16."
placed.	୍	75°	+ 1/4"
	L'	60°	+ 3/8''
	263	45°	+ 1/2"
(+) sign indicates distance is away	Degr	30°	+ 5/8"
from Abutment No. 1 Backwall.		15°	+ 3/4"
	lemp.	0°	+ 13/16
		-15°	+ 15/16"
rings Abutment No. 1		- <i>30</i> °	+11/6

EH.W.A. STATE PROJECT NUMBER

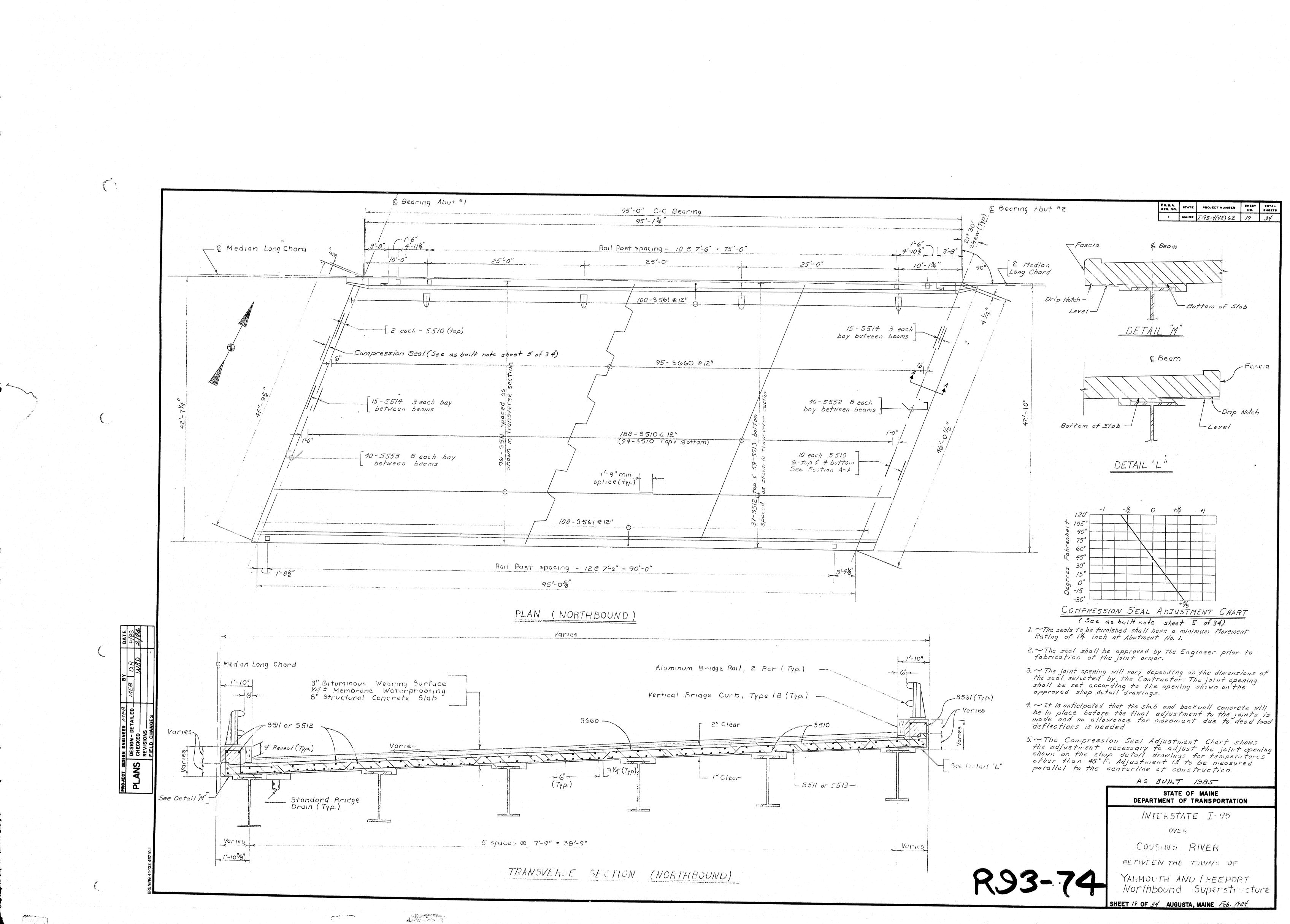
F.H.W.A. REG. NO. STATE PROJECT NUMBER SHEET TOTAL MAINE Z-95-4(42)62 18 34

BEARING SETTING NOTE 

The Bearing Setting Data is to set bearings after erecting structural steel and before the concrete slab is placed. It is anticipated that the bearings at Abutment No. 1 will move be inch away from the fixed bearings due to the placement of the superstructure concrete. No separate payment will be made for resetting bearings to the final position if an adjustment is required.

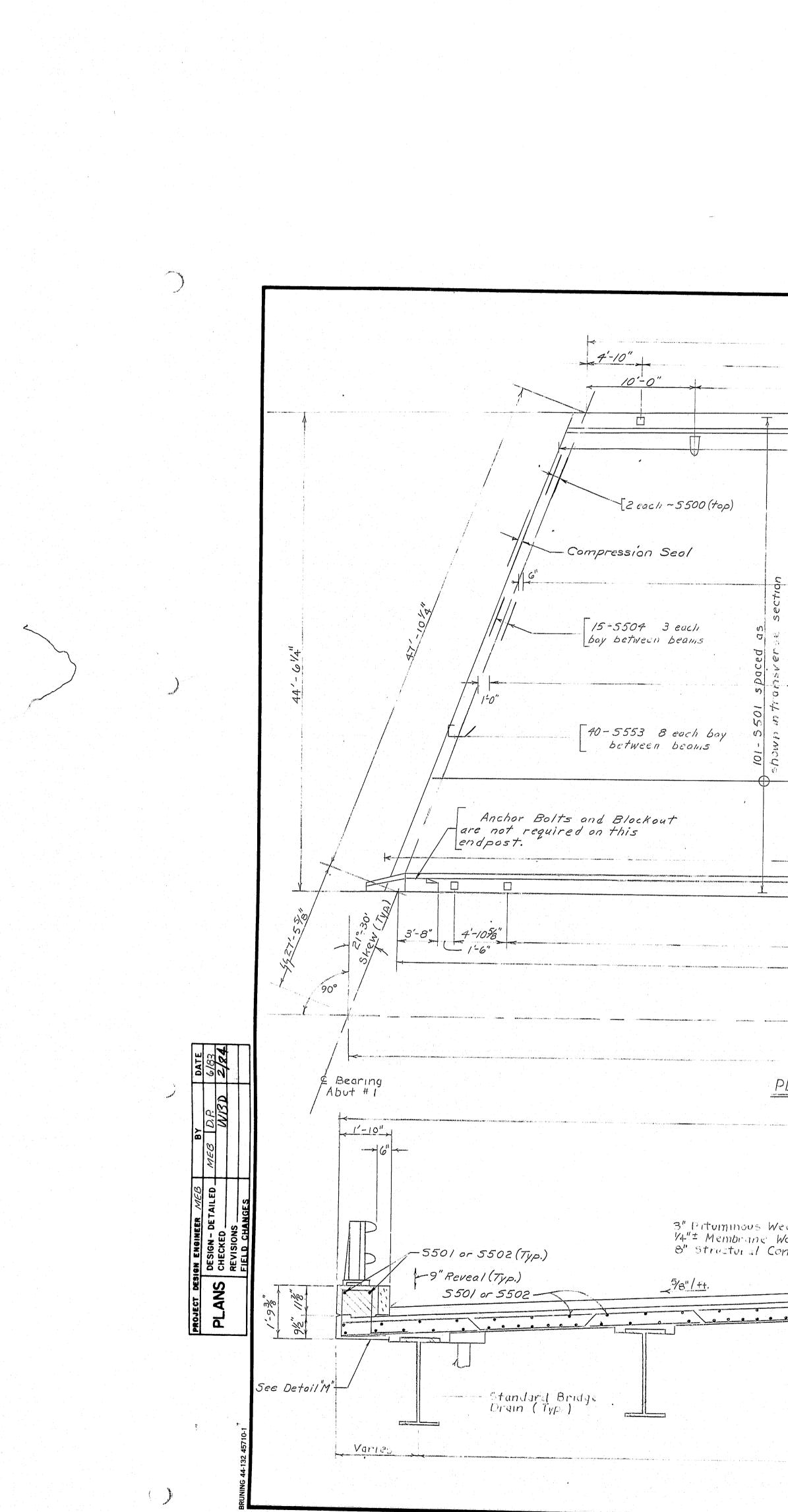






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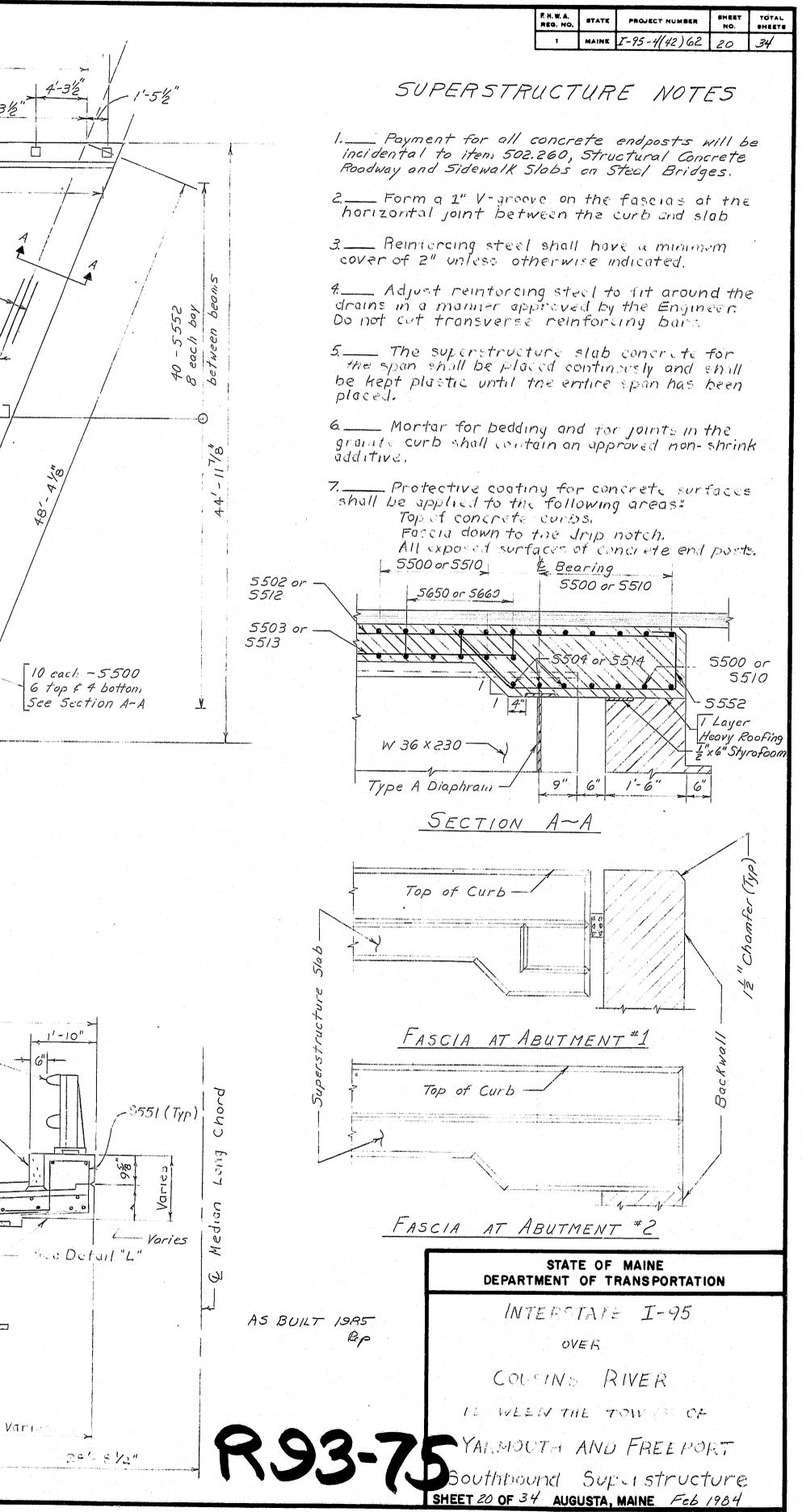
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1.1

Rail Post	95'- 312" F spacing - 11 C 7'-1	0" = 86'-2″	•		
25'-0"	25'-0"		25'-0'		
100-5	551 @ 12"				
				15-5504 3 each bay between bed	
95 -	5650 @ /2"		<b></b>		6" /
		ton. ection			$\rightarrow$
	* bottom)	5503 Bot.		kolli Sannongan kulan. U.S. Lata - ee eman mangan kulan ing ana ana 🗫	1=0"/
1'-9" mi splice (	n l	5 62- in tr			
sp//c		J as shown		/	
100-5551 12"		39 - 5. Spaced		TH.	
Rail Post spacing - 10 C 7'-6" = 75'-0 25'-1'14"	2″		4'-105%" 3'	-8"	X
& Median Long	Chord -		X		
95'-0" C-C Bearing					
AN (SOUTHBOUND)			g Bearin Abut #2	7	
Varies	ал от та та <b>станот произволители от с</b> ал разликарена, посто се станот се се станот от се станот от се станот от с	Alu	minum Bridge Rail	, 2 Bar (Τγρ.)	араанаа, н. б. с. ж. оны жайон өөрөөн өөрөө жайыр ж. бараан ал
		Vert	ical Bridge Luik	, Туре 1В (Тур.)	
ring Surface terpisoting crete Slab		•		3500	
\$650		2" Clear		, , , , , , , , , , , , , , , , , , ,	
	3 1/4 (Typ)	1" Clear		5501 or 5503-	
Protection and Annual Annua	Harrison and Har		Proprietorial Construction of the Construction		
5 j. 10 ce 3 7'- 9" =	- 3,2,1,1				
TRAN VER E TON (5	1. The second s second second s second second se Second second se Second second sec	and a second second Second second second Second second		en e	

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			REINFORCING	STEEL	SCH	EDULE										FHWA
	STRAIG	IT BARS			T					DENT						FHWA REG. NO. STATE PROJECT N I MAINE I-95-4(
MARK NO. LENGTH	LOCATION MARK NO. LENG		MARK NO. LENGTH	LOCATION	MARK N	O. LENGTH	TYPE		BC	BENT D	BARS					TYPE-BENDING DIAG
	A500 14 60'0	" Footing	A549 4 4'6"	Vertical	A550 /	7 5'7"		+	4'10"				НО		LOCATION	THE BENDING DIAG
	A501 14 35'0	" "			A551 17	10'4"			5'11"						Dowel	
	A502 14 22'0	и и			A552 17	10'6"	.5	▋	4'8" 1'2	2" 4'8"					Vertical Breastwall	
	A503 180 6'0	, i)		·····	A553 19	9' 3"	L		4'10"						Vertical Backwall	B
	A504 18 11'6'	n n			A554 9	5'10"	L	╂	5'1"		· · · · · · · · · · · · · · · · · · ·			_	Vertical Breastwall	
	A505 4 5'0	η			A555 2	4'6"	S		2'0" 0'6	5" 2'0"					Dowel	<b>D В Е С В D В</b>
	A506 22 6'6'	11			A556 4	10'10"		╂────┼──	2°0 °0°	20					Curb	C D A G C HB H S SI
	A507 14 16'0"	<i>U</i>			A557 4	4'9"	5	#	2'0" 0' 5	9" 2'0"					Vertical Breastwall	
	A508 17 3'3"	Dowel			A558 5	11'0"	5			2" <u>4'</u> ]]"		-			Curb	A B H E C
	A509 20 8' 4"	Breastwall			A559 9	10'8"	5		4'9" 1'2		· · · · · · · · · · · · · · · · · · ·				Vertical Backwall	
	A510 31 2'9"	Vertical Backwal			A560 10			┫────┤──	10'9"							BAB HH AB
	A511 17 24'8'	Horizontal Breastw	all	· · · · · · · · · · · · · · · · · · ·	A561 17			4'5"							Dowel	
	A 512 2 45' 2				A562 23		5		3'5"  '2	on 419"					Vertical Breastwall	
	A513 21 3'7"	Dowel			A563 11				2'9"	. 77					Vertical Backwall	<u>PA</u> EP
	A514 9 7'9"	Vertical Breastwa	//		A564 11				5'2"					-	Vertical Breastwall	B∕•C G ⊨ B
	A515 10 3'0"	Dowel Median Wal			A565 15				4'10"					++	Vertical Backwall	
	A516 20 8'1"	Vertical Median Wa		and the second	17566 9	10'0"			9'3"				· · · · · · · · · · · · · · · · · · ·		Vertical Median	A E R
	A517 6 13'4"	Horizontal Median Wa		······	A567 6	5'6"			4'9"							W
	A518 6 14'1"				A568 2	4'6"	5		· · · · · · · · · · · · · · · · · · ·	6" 2'0"					Vertical Breastwall	
	A519 8 26'11"	Horizontal Breastw	all		A569 17	6'6"			5'9"	20					Curb	
	A520 3 13'6"	Horizontal Backwa			A570 6	5'3"	╉────╫	<u>├}</u>	4'6"						Dowel	
	A521 3 12'8"	И И			A571 6	6'3"	2 5		2'9" 0'9	2" 219"					Dowel Wing LI	
	A522 7 6'6"	Vertical			A572 3	/8'3"			1'0" 13'0						Curb " ""	
	A523 6 219"	Dowel			A573 3	15'0"	T		1'0" 11'0					.6"	Horizontal " " "	
	A524 9 5'3"	Horizontal Breastwa	//	······	A574 9	5'3"			4'6"					6.	<i>n n n</i>	
	A525 8 7'2"	и и			A575 9	6' 3"	5			" 2'9"				[	Dowel Wing RI	All dimensions are out to out of rein
	A526 17 3'7"	Dowel			A576 9	14'9"		C	2 9 0 9		2'0"		1.1011		Curb " "	Bending details and hooks shall a the recommendations of the curry
	A527 17 5'11"	Vertical Breastwal			A577 4	17'0"							'10"		Horizontal " "	of ACI Standard 318.
	A528 34 3'2"	Dowel			A578 3	//0	J	3'9" 1	1'0'' 13'6	/3'3"	3.8.		3'6"		1) H H H	Reinforcing Bar : ASTM A615 Gr
	A529 11 5'3"	Dowel			A579 3	15'0"	<b> </b>		'0" //'0					6"	" <u> </u>	GENERAL NOTE
	A530 15 24'8"	Horizontal Breastw	1//		A580 5	18'3"	V	50 /			010#			. 6"		1. First digit(s) following the letter of indicates size of reinf. bar.
	A531 3 15'6"	11 11			A581 10		S		1.9" 1.2"	16'3" " 41'9"	2'0"		'10"		17-1	Indicates size of reinf. bar. Mark (4 502) have size
	A532 9 12'0"	" "				5'0"			י2' ו'?' י3''			-			Vertical Backwall	Mark (A 502) bar size - *5 Mark (P 1001) bar size - *10 Mark (S 603) bar size - *6
	A533 15 2'9"	Dowel			A582 5		L	0'9" 4	/						Dowel	
																2. Each truss bar, Type B, replaced by two (2) straigh (ane top & ane bottom) of bar size as the truss bar In either case shall be be
8	A535 19 8'1"	Vertical Median										· · · · · · · · · · · · · · · · · · ·	-	-		bar size as the truss bar
	A536 10 3'0"	// 1/			·····							• • • • • • • • • • • • • • • • • • •				In either case shall be be truss bars as scheduled
	A537 6 12'9"	Horizontal Median		annan (A. da ch g. t.												
	A538 6 13'6"															AS BUILT 1985 Rap
	A539 6 7'2"	Vertical Breastwar				· · · · ·					- 1					A Revised ACI Standard
	A540 2 47'0"	Horizontal Backwa														REVISIONS
	A541 6 2'9"	Dowe I												· · · · · · · · · · · · · · · · · · ·		STATE OF MAINE DEPARTMENT OF TRANSPO
	A542 15 7'8"	Vertical & Horizontal														
	A543 2 7'8"	Curb													-	INTERSTATE I
	A544 18 11'10"	Vertical														OVER
	A545 9 2'9"	Dowel											-			
	A546 2 13'4"	Curb														COUSINS RIVE
	A547 6 21'8"	Horizontal Breastwar	y								1				2-76	YARMOUTH AND FRE.
	A548 4 4'9"	Vertical			MARK NO.											ABUTMENIT # 1 REINFORCING STEEL SCH

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		······································		· · · · · · · · · · · · · · · · · · ·	SI	TRAIGHT	BARS																	
MARK	NO.	LENGTH	LOCATION	MARK	NO.	LENGTH	LOCATION	MARK	NO.	LENGTH	LOCATION	MAR	NO.	LENGTH	TYPE	Α	В	C C	BENT	E	RS	G	н	
				B503	182	6'0"	Footing	B552	39	7'4"	Median Barrier	B511	100	5'5"			9"							0
				B504	14	11'0"	II.					DJI	700			. 4'8"	7							
				B505	14	6'6"	$\mathbf{H}^{(1)}$	B555	3	7'8"	Backwall	B530	5	7' / "		2'9"	4'4"							
				B506	16	12'0"	<u>II</u>	B556	. 3	6' 5 "		B531		7'6"		3'2"	414"	<b>_</b>						
				B507	14	41' 0"	11	B557	3	5' 8"	11	B532		8' 4"	L	4'0"	4'4"							
				B508	14	30'0"	$u_1$	B558	6	7'10"	Median Barrier	B533	25	9'2"	2	4'10"	4.4"	· · · ·						
				B509	14	56'0"	11 I	B559	6	8'6"	<i>))      </i>												······	
				B510	188	3'3"	Dowell	B560	6	18' 8"	n I	B535	10	9' 10"	L e e	5'6"	4'4"							
								B561	3	15'0"	Backwall	B536	11	10' 4"	L	6'0"	41411						 -	-
				B5/2	3	6' 9"	Breastwall	B562	3	13' 8"	<i>II</i>	<i>B5</i> 37	11	10'9"	L	6'5"	4'4"							-
				B513	6	7'0"	Breastwall + Backwall																	
				B514	42	16' 4"	11	<u>B565</u>	2	3'10"	Wing L2	B551	65	6'10"	S		2'10"	1'2"	2'10"					
				<u>B5/5</u>	/3	14'8"	Breastwall	<u>B566</u>	/	6'0"	$\mu_{\rm eff} = \mu_{\rm eff} + \mu_{\rm eff}$													
				B516	4	19'8"	'' Median	B567	14	7' 4"	n n	B568	16	6' 10"	'S		2'10"	1'2"	2'10"					
		·····		B517	10	17'11"	Breastwall + Barrier																	
				B518	5	14'2"	Breastwall	<u>B572</u>	2	8'5"	<u>р</u> ри	B570	3	15'0"					13'0"	2'0"			1'10"	
				B519	8	5'   "	Breastwall + Backwall					B571	3	12'0"	V				10'0"	2'0"			1'10"	
				B522		121 011		B575	2	8'//"	μ													
				DJZC	8	12'8"		0.50.5				B573	3	10' 10"	V				8'10"	2'0"			1'10"	
· · ·				B540	6	4'10"		B580	_2	7'0"	Wing R2	B574	3	11'5"	V				9'5"	2'0"			1'10"	
				B541		5'3"		B581		10' 5"	η η η		and the second s					· · · · ·					<del></del>	
				. B542		6'1"	p	<u>B582</u>	18	// 7"	· / /	B583	_5	18'2"	VV				16' 2"	2'0"			9"	
					24	6' 11"		B585	2	11'7"	<u>л</u> . р. п	B584	3	15' 2"	VV				13'2"	2'0"			9"	
	n Saist F			B544	11	7'7"	11 11	2000				0.504												
				B545	11	8'1"	D II	B588	2	10'11"	h p II	B586	5		VV				10'10"				9"	
				B546	10	8'6"	$\mu$ ,		<u> </u>	10 11		<i>B5</i> 87	3	13' 4"	VV				11'4"	2'0"			9"	
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"4" "4"									Breastwall
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				-	-	<u> </u>			
1'4"									11
11 41									μ
1'4"									II.
10"	1'2"	2'10"					•		Backwall
10"	110"								
10"	1'2"	2'10"							Wings L2 + R2
		13'0"	2'0"			11/10/1			
	<u></u>	10'0"	2'0"			1'10" 1'10"	 		Wing L2
						, ,0	. <u>.</u>		
		8'10"	2'0"			1'10"			n n n
		9'5"	2'0"			1'10"			Н н. Н
		16' 2"	2'0"	· · ·		9"	· · · · · · · · · · · · · · · · · · ·		Wing R2
		13'2"	2'0"			9."			н н н
		10/10"							
		10'10"	2'0"			9" 0"			
		11 7	2'0"			9"			<u>н</u> н н
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MARK	NO.	LENGTH	LOCA	TION	MARK	1	LENGTH	1	MARK	NO.	LENGTH	LOCATION	MARK	NO.	LENGTH	TYPE	Α	В		BENT		ARS				T	I
							(S.B.)	SUPERSTRUCTURE				POSTS								D	E		G	<u> </u>	0	R	LOCATIO
· . · ·					5500	2.00	47'6"	Transverse										0072	F S / K	<u>ucruk</u>	E (S.E	2, V					
					5501	101	60'0"		EP401	60	1'10"	End Posts	5551	200	6' 11"		1'3"	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,								
		· · · · · · · · · · · · · · · · · · ·			S502	39	40'2"	LongitudInal (top)					5552	40	6'5"	SB	13	'4" 3'4"		1'5"	1'10"		: .				Curb
					5503	62	35'9"	" (bottom)	EP 405	32	1'5"	End Posts	5553	40	4'6"	X	/ / //			6							Slab Haunch
					5504	30	7'11"	Haunch (3 each bay)	-											G						а 1. Гал — А	11 11
									EP508	24	4'0"	End Posts	5650	95	49'3"	B		4'5'2'	" · 7 = "	2/0/11	2/-3/						
							(N.B.)	SUPERSTRUCTURE			, ,		0.000					7 52	+	+		5'0"			47'534	1	Transver.
	· · · · · · · · · · · · · · · · · · ·				5510	200	45'1"		EP520	4	6'2"	Mudified End Post					· · · ·		x 10	X 5	x 4		-				
· · · · · · · · · · · · · · · · · · ·					5511	101	60'0"	Longitudinal			- 0	TTOUTTED ETTO TOST	-										-				
					5512	39	-	Longitudinal (top)	EP708	4	4'0"	<i>II II II</i>						SUPE	RSTRU	ICTUR	E (N.B.	)					
						62	36'6"	" (bottom)													-		-				
					5514	30	7'11"	Haunch (3 each bay)					\$551		6' 11"	SB	1'3"	1'4"		1'5"	1'10"		-				Curb
								() () (ach Day)					5552		6'5"		:/'7"	3'4"	1'0"	6"							Haunch Abu
						·····						· · · · · · · · · · · · · · · · · · ·	\$553	40	4'6"	X	/'7"	1'5"	1'0"	6"							н. н.
							APPPODC	4 SLABS					-														
					AS400		30'0"	NB + SB					5660	95	46'11"	B		3'5±"	7ź"	3'9气"	3'73"	3'8"			45'13,"		Transver
					AS401	·····													× 10	× 5	X 4						
					115901	32	14'0"	SB Lane					-														
					AS403	32	11'10"												END	POSTS							
							// /0	NB Lane			-																
					AS600	312	15160						EP402	32	4'9"	S	0	2'1"	0'7"	2'1"			0				End Posts
				<b>/</b> ,	//3600	JIE	15'0"	NB+SB					EP403		4' 8"	H	0'4"	1'0"	1'0"	1'0"	1'0"		0'4"				11 11
													EP 404	32	3'/"	S	0	1'3"	0'7"	1'3"			0				H H
						<del></del>			· · · · · · · · · · · · · · · · · · ·																		
													EP 408	26	4'3"	S	0	1'10"	0'7"	1'10"			0				11
		· · · · · · · · · · · · · · · · · · ·											EP 409	16	4'2"	S		1'10"	0'6"	-1'10"			0				μ
							· · ·						EP410	7	4'6"	S	0	1'10"	0'10"	1'10"			0				11 11
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								· · · · · · · · · · · · · · · · · · ·					EP420	/	6'8"	S		1'10"	3'0"	1'10"				a			Modified End
			-										EP421	4	9'0"		0' 4"	1'0"	3'2"	1'0"	3'2"		0'4"				/I II
													EP501	24	5'3"	V				3'0"	2'3"			0'4"			End Post.
													EP502	23	4' 11"	S	ола О	'  "	0'7"	1.11.			0'6"				n n
													EP503	14	4'10"	S	0	'  "	0'6"	1'11"			0'6"				п
													EP504	6	6'5"	H	0'5"	1'11"	0'10"	1'11"	0'10"	-	0'5"				n n
		·····																						<u></u>			<del>,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,</del>
													EP521	4	7'5"					5'2"	2'3"			0'4"			Modified End
							· · · · · · · · · · · · · · · · · · ·						EP522	1	10' 8"	Н	0'5"	'  "	3'0"	'  "	3'0"	<u></u>	0'5"				// //
							***************************************						EP 701	4	5'3"	V				3'0"	2'3"			0' 4"			Canterlevered Er
				· · · · · · · · · · · · · · · · · · ·								· · · · · · · · · · · · · · · · · · ·	EP 702	3	4' //"	S	0	1'11"	0'7"	1' 11"	· · · · ·		0'6"				Canterlevered Post At Abut. H
										2 			EP 703	2	4'10"	S	0	1'//"	0'6"	1'//"		· · · ·	0'6"				Conterlevered E. Post At Abut #
													EP704		6'5"	H	0'5"			1' //"	0'10"		0'5"				Conterlevered En Post At Abut. #
			an an an Anna a			  																					1 UST MT MOVT. H
						-				and a second																	
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			an a			-																	<u></u>			<b>7</b> †	5-1
								T		<u> </u>			MARK	NO	LENGTH	TYPE				<b>N</b>	<u> </u>						
											a series and s	and the second		<b>-</b>				- <b>C</b>	U 1	י ט		- F 1	G	F	0	R	LOCATION

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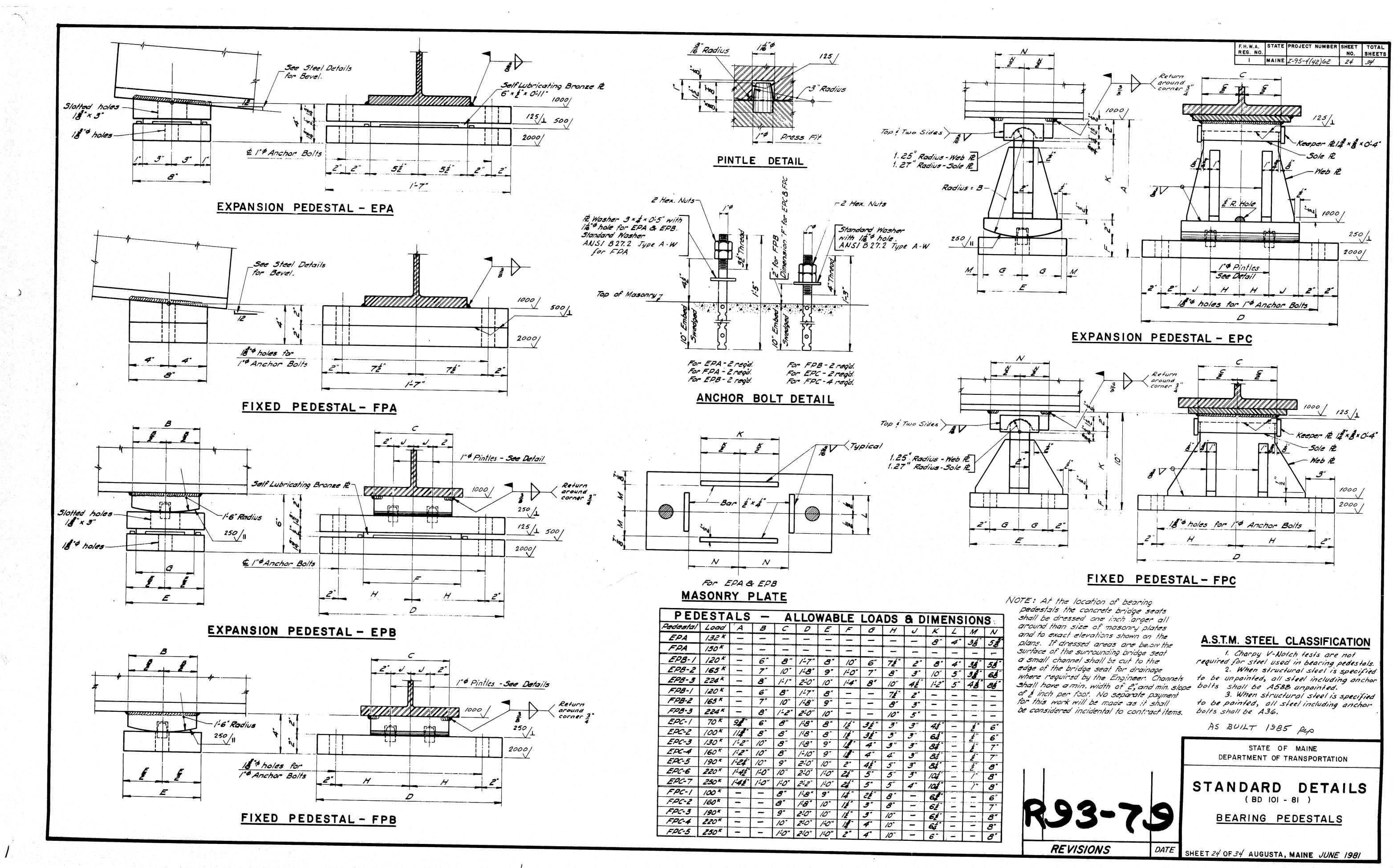
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						THWA REG. NO. STATE PROJECT NUMBER NO. SHEET I MAINE I-95-4(42)62 23 34
F	G	н	0	R	LOCATION	TYPE-BENDING DIAGRAMS
						B El E2etc. F
						DI D2 I D3 etc.
. 1					Curb	0 <u>B</u>
					Slab Haunch Abut. #2	<u>EA</u> BCAGC
					11 11 11 # /	
~ //						$\begin{array}{c c} \hline c \\ \hline c \\ \hline D \\ \hline A \\ \hline G \\ \hline C \\ \hline E \\ \hline E \\ \hline HB \\ \hline HB \\ \hline H \\ \hline S \\ \hline S \\ S \\$
0″			47'534"		Transverse	HB H <u>S</u> <u>SL</u> <u>SB</u>
					Curb	
					Haunch Abut. # 2	$\begin{array}{c c} - & - & - & - & - & - & - & - & - & - $
					11 11 # /	
9″			45'13;"		Transverse	
						$\underline{W}$
						D
				I.		c
	0				End Posts	B
	0'4"				11 11	$\frac{J}{X}$
	0	· · · · ·			н н	
	0				H H	All dimensions are out to out of reinf. bar
· .	0				H H	Bending details and hooks shall conform to the recommendations of the current revision
						of ACI Standard 318.
					Modified End Post	
	0'4"					GENERAL NOTES
						1. First digit(s) following the letter of the Mark indicates size of reinf. bar.
		0'4"			End Posts	Mark (A 502) bar size - #5 Mark (P 1001) bar size - #10
	0'6"	· · · ·			n n	Mark (5603) bar size - *6
	0'6"				и и	2. Each truss bar, Type B, may be replaced by two (2) straight bars
	0'5"				n y	(one top & one bottom) of the same bar size as the truss bar. Payment In either case shall be based on
	<u> </u>	0'4"		· · ·	Modified End Post	truss bars as scheduled on plans.
	0'5"				//////////////////////////////////////	AS RULL ISOF
		0' 4"			Canterlevered End Post	AS BUILT 1985 Rep
	0'6"				Canterlevered End Post At Abut. H1	ARevised ACI Standard5-12-83REVISIONSDATE
	0'6"				Canterlevered End Post At Abut. #1	STATE OF MAINE DEPARTMENT OF TRANSPORTATION
	0'5"				Conterlevered End Post At Abut. # 1	
						INTERSTATE I-95
						OVER
						COUSINS RIVER
				0	2 7 4	YARMOUTH AND FREEPORT
				2	<b>3</b> -( A	
	G	H	0	R	LOCATION	REINFORCING STEEL SCHEDULE
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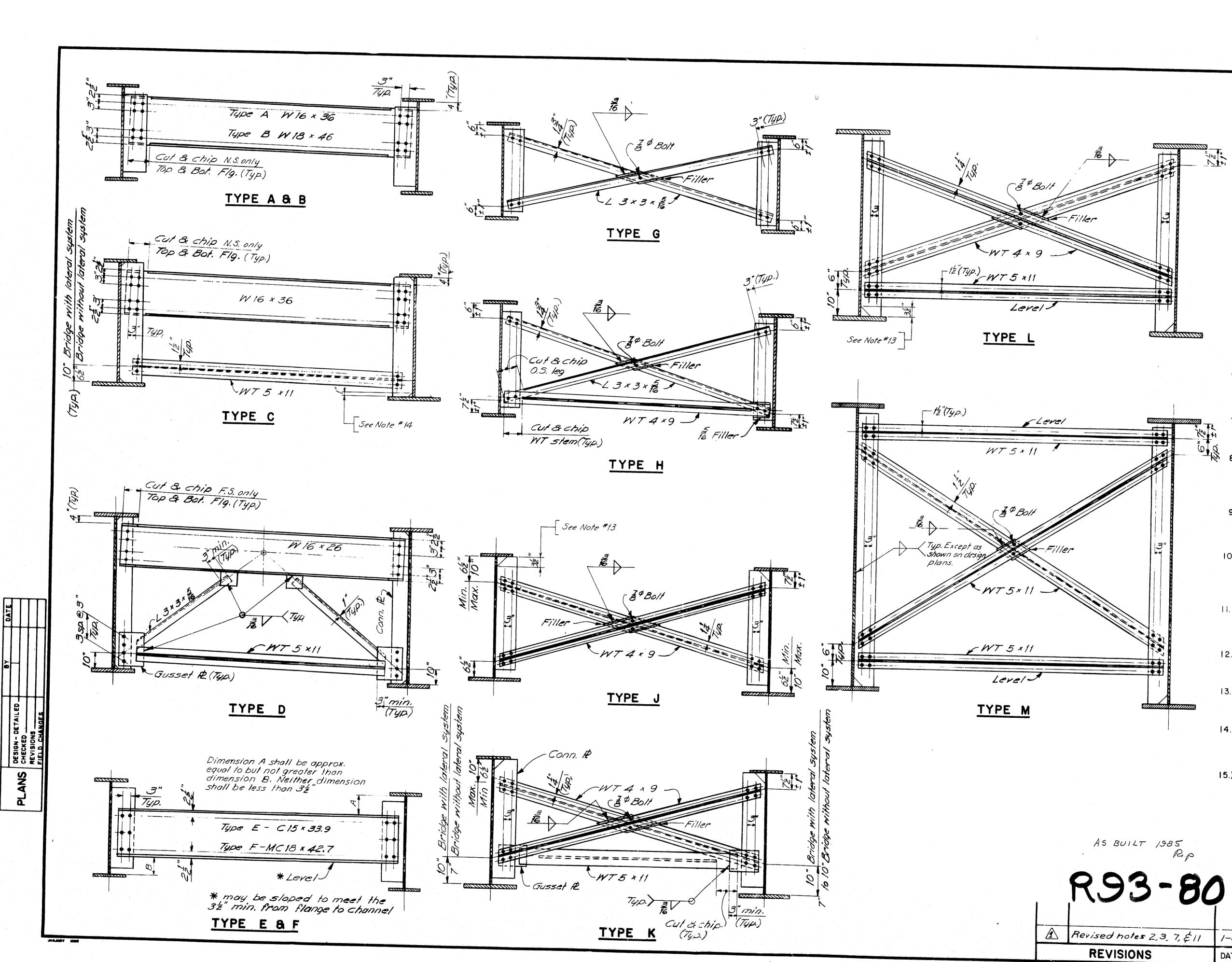




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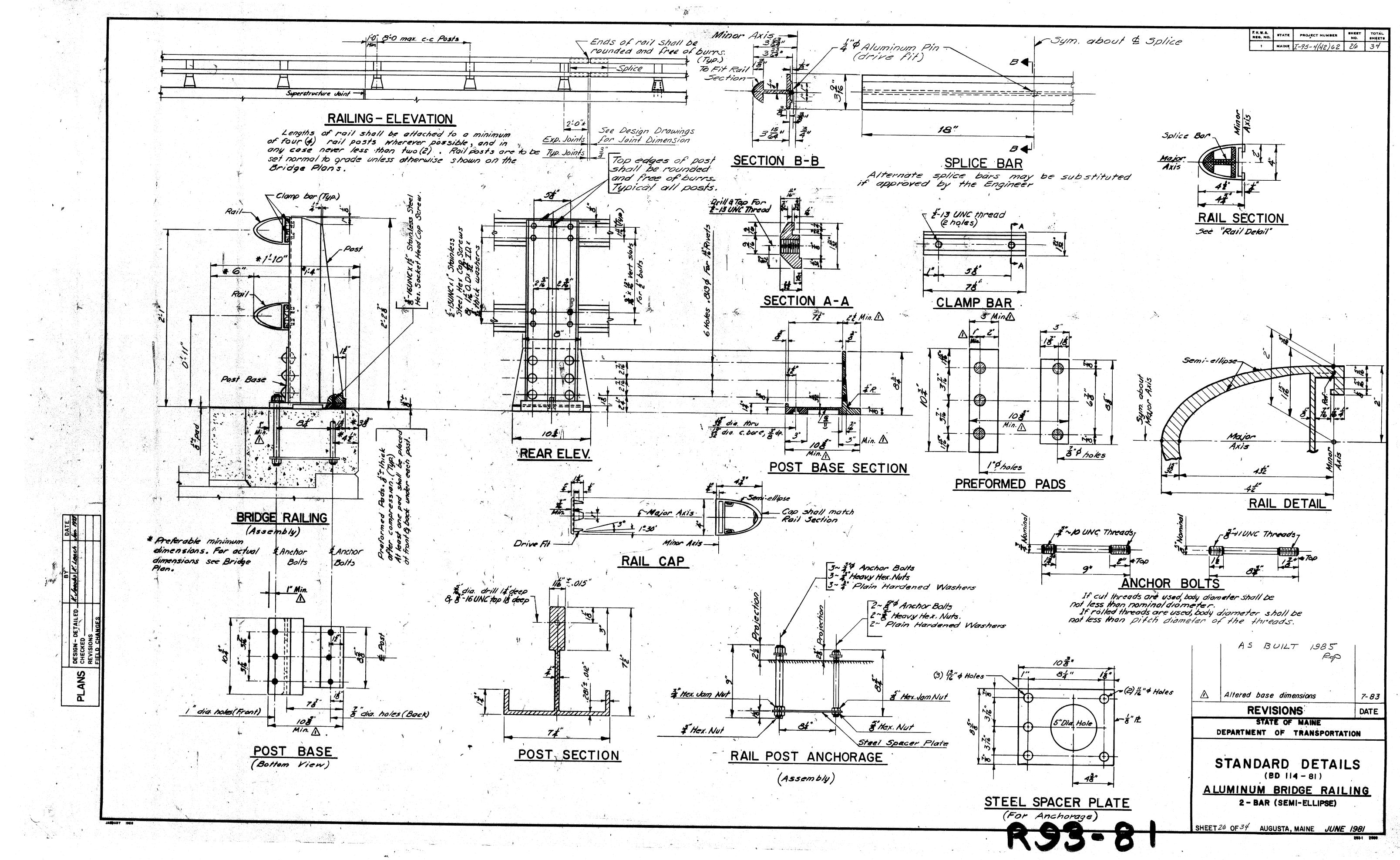
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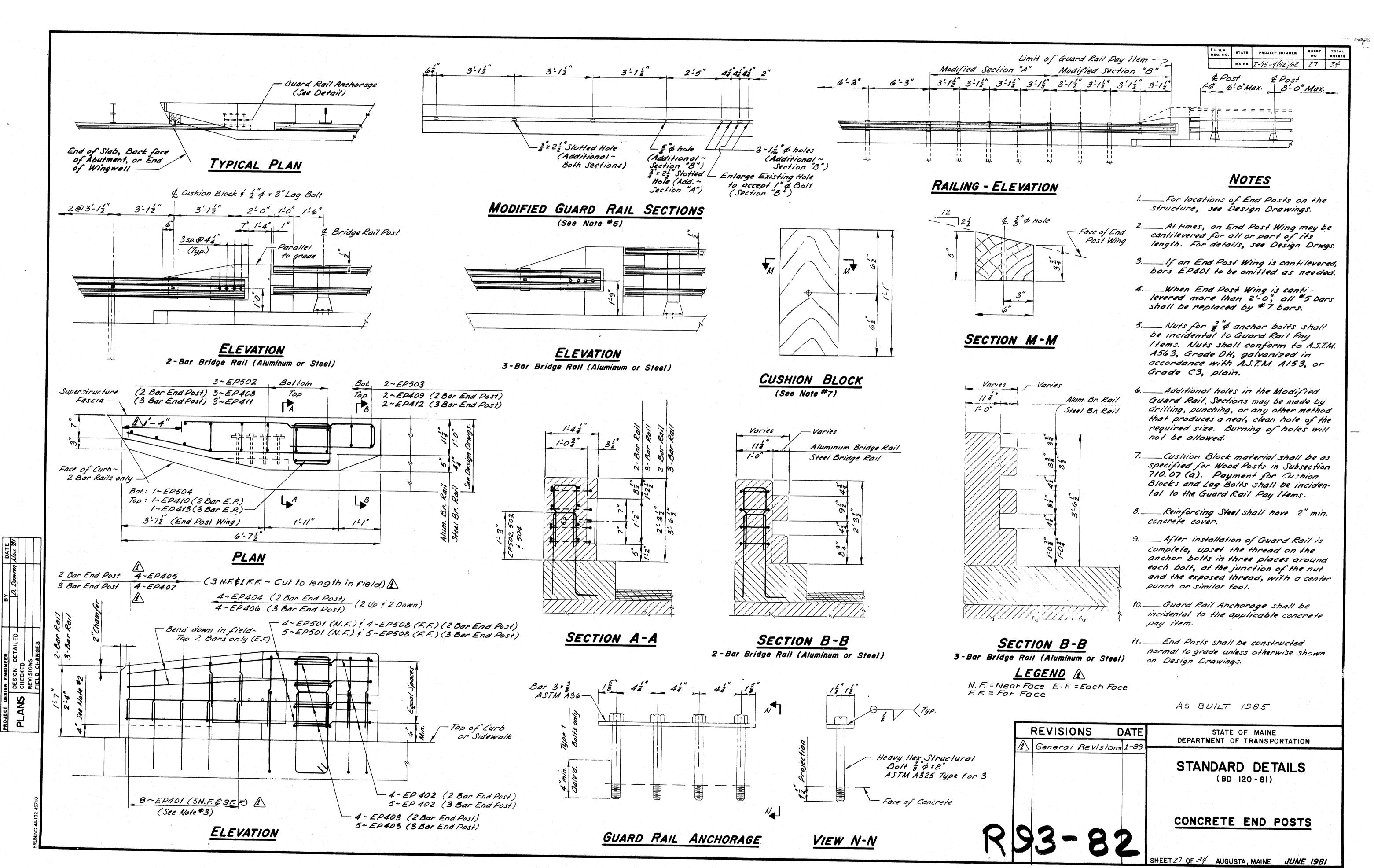
		F. H. W. A. REG. NO.	TATE	PROJECT NUMBER	SHEET NO.	TOTAL SHRETS
		<u> </u>	AME Z	-95-4142)62	25	34
	<b>Fm A m m</b>		• • -			
				NOTES		
	All bolts shall be for bolts shall c the Standard S tances shall be [	onform necificati	o S	ection 504.	23 of	
2.)	Connection Plates minimum thicknes width to provide o stiffeners or inter connection plates design drawings.	s and gus s of <u>s</u> an erection rmediate	set p d sh clear stif	plates shall h all have suff ances. For b feners and f	icient icient	g
t S I.	Connection Plate by fillet welds a be the minimum s Standard Specifi 7. 21, unless of	s shown. ize as sp cations f h <b>erwise</b>	All ecif or H show	fillet welds ied in A.A.S ighway Brid n on design	shal H.T.( ges,A draw	). D. In <b>t.</b> ings.
4.) C e	Connection Plates except as indicate	s shall be d by note	3 <sup>1</sup> / <sub>2</sub> c s 5 8	lear from flo 36	Inges	,
5.) C s t	Connection Plates hall extend to the op flange is alwa	e top flai ys in con	nge i Ipres	n areas whei ssion.	re the	
a w b	onnection Plates t points where la velded beams and ottom flange is d	teral bro d girders always in	in a com	gis attached reas where f pression.	l and the	on
NU +1 SI	Then a connection hall fit within $\frac{1}{16}$ is to be welded.	n plate is except i	ext f the	ended to a fl e design drav	ange vingssl	it how
to fu	earing Stiffener both top and bot both flanges. We all penetration w a fillet weld bo	tom flan eld at bot eld. Wel	ges c tom d ot	and shall be flange shall top flange s	welde	d d
ex W(	earing Stiffeners (tend to both top elded to the bott eld and shall fit y	and bott om flana	om f e wi	langes, shal th a full pere	1 he	a a second
an pre	termediate Stiff id bottom flange ession flange with ite 3) and shall f	s,shall b h a fillet	e wel welc	lded to the c t on both side	om – as (se	e
ln a <b>n</b>	e only those iten case of conflict b d design drawings llowed.	etween t	hese	standard de	tails	vings
ord	l dimensions sho der to allow a ser me slopes and/o	ies of cr	ossfi	rames to nav	ble ir ve the	
10 (	connection plate flange shall be c note 14.	s and stif clipped 3	fene ;,ex	rs hataree) cept as indic	ctende cated	d
bea flar	aring stiffeners o at top and bottom Irings shall be c nge.	. Bearing lipped l <u>1</u> "	g sti at t	ffeners at <b>a</b> l he compress	l othe sion	<b>r</b> - 4
ana For phr exc	unpainted appli crossframes sho bridges specifie agms and connec ept other steel cl to the approval o	all be A.S. d to be p tion plat lassifica	T.M. ainte es st tion	-A588, ed the steel f nall be A.S.T. s may be use	or dia	-
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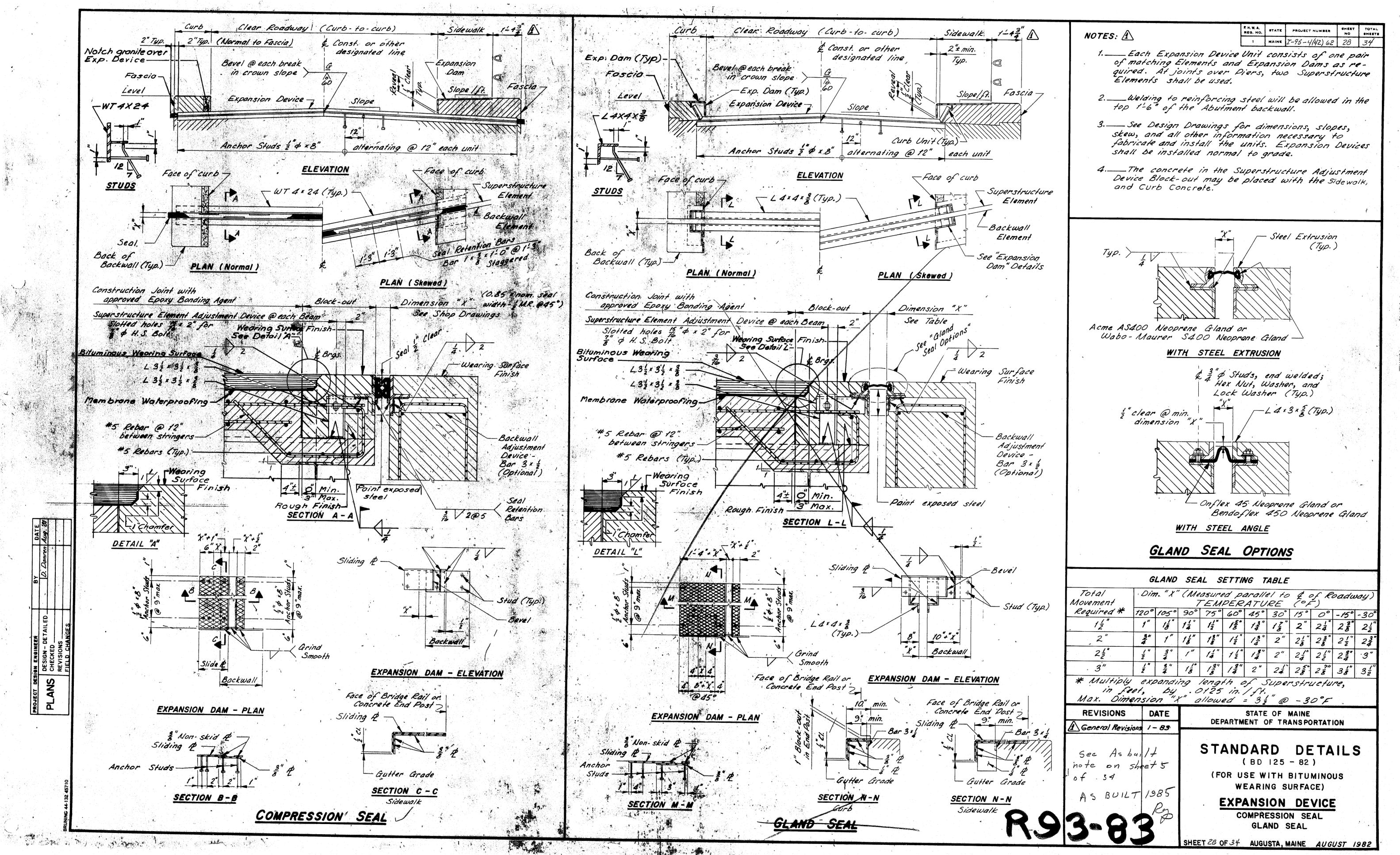
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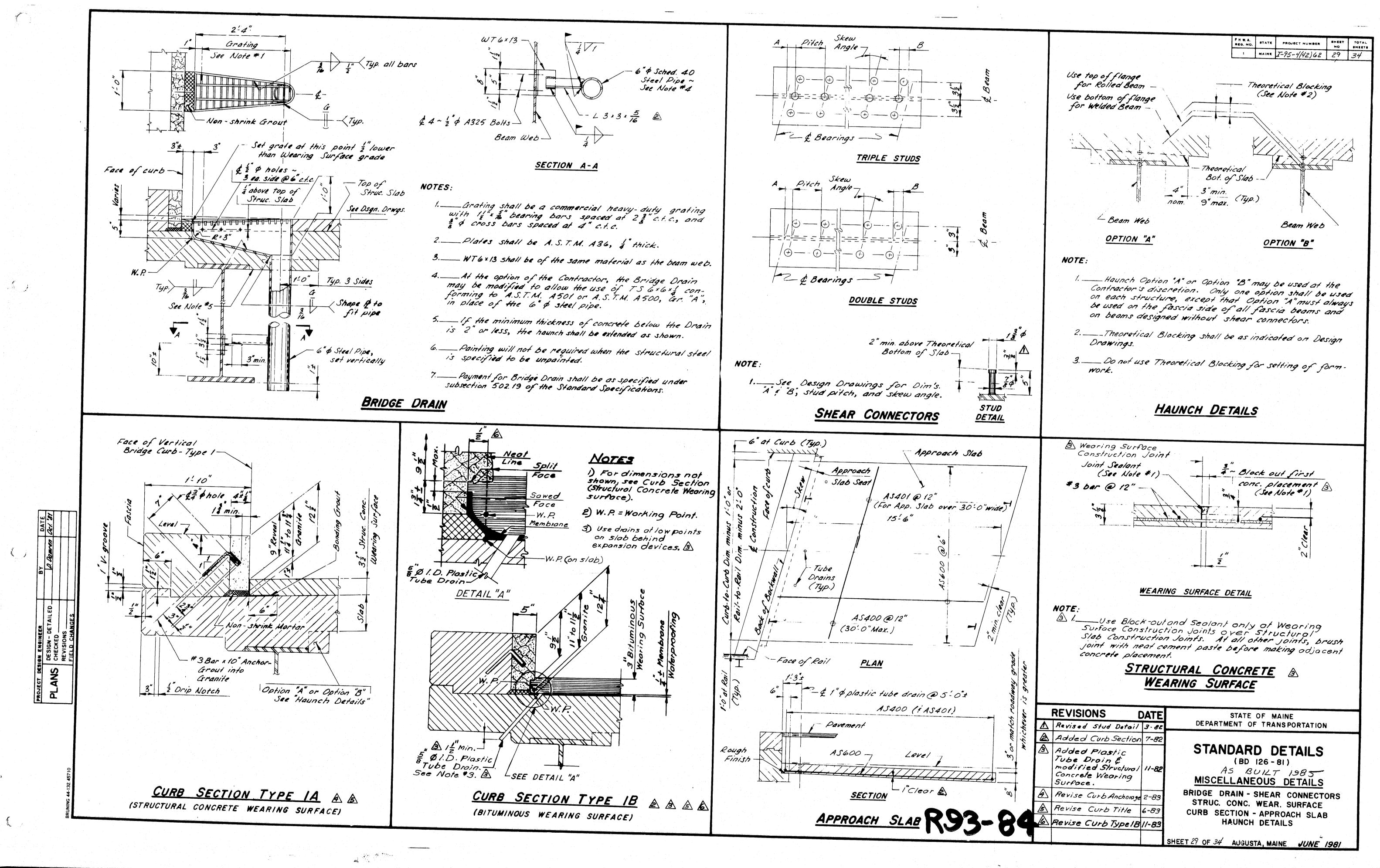




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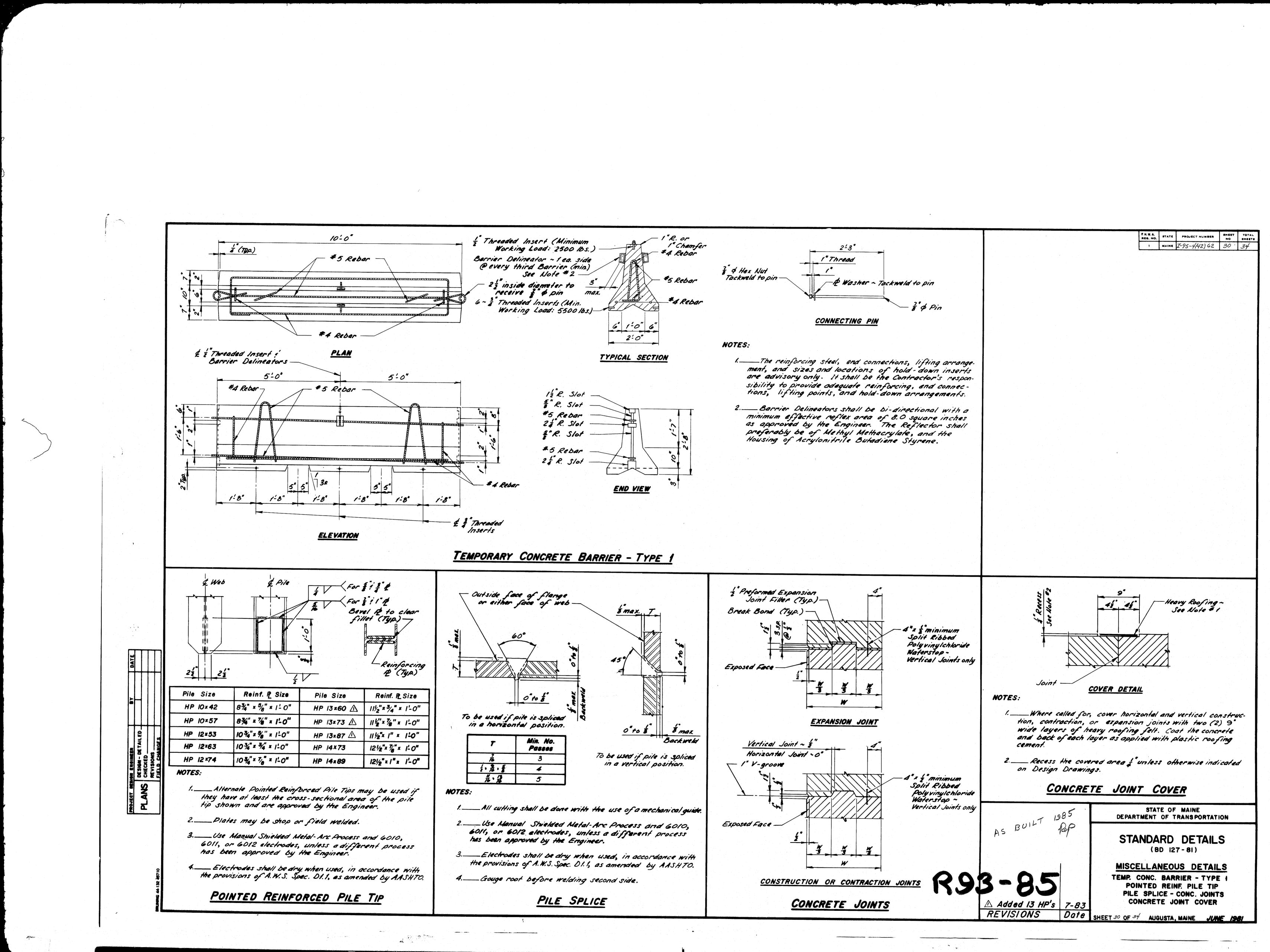




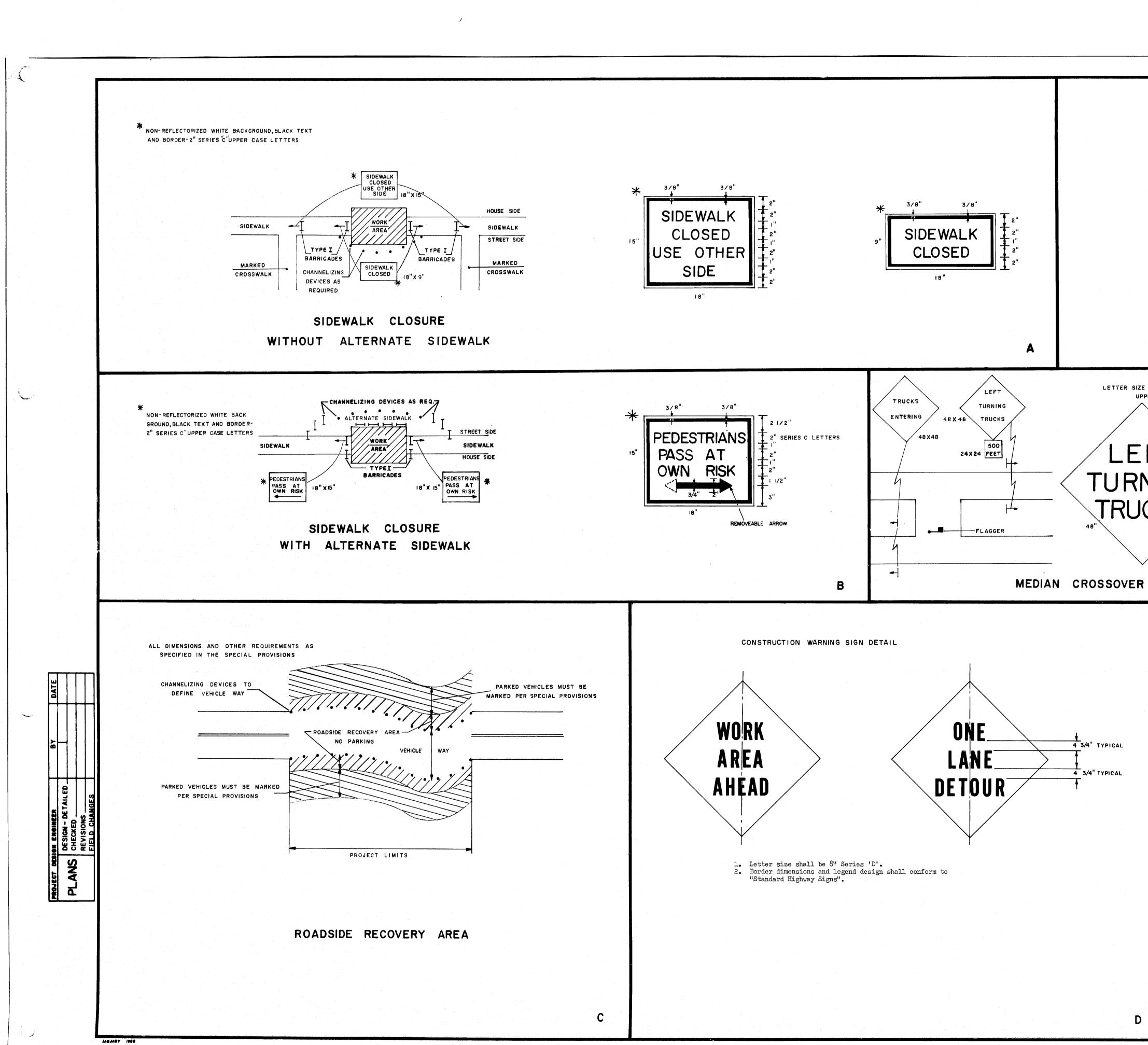
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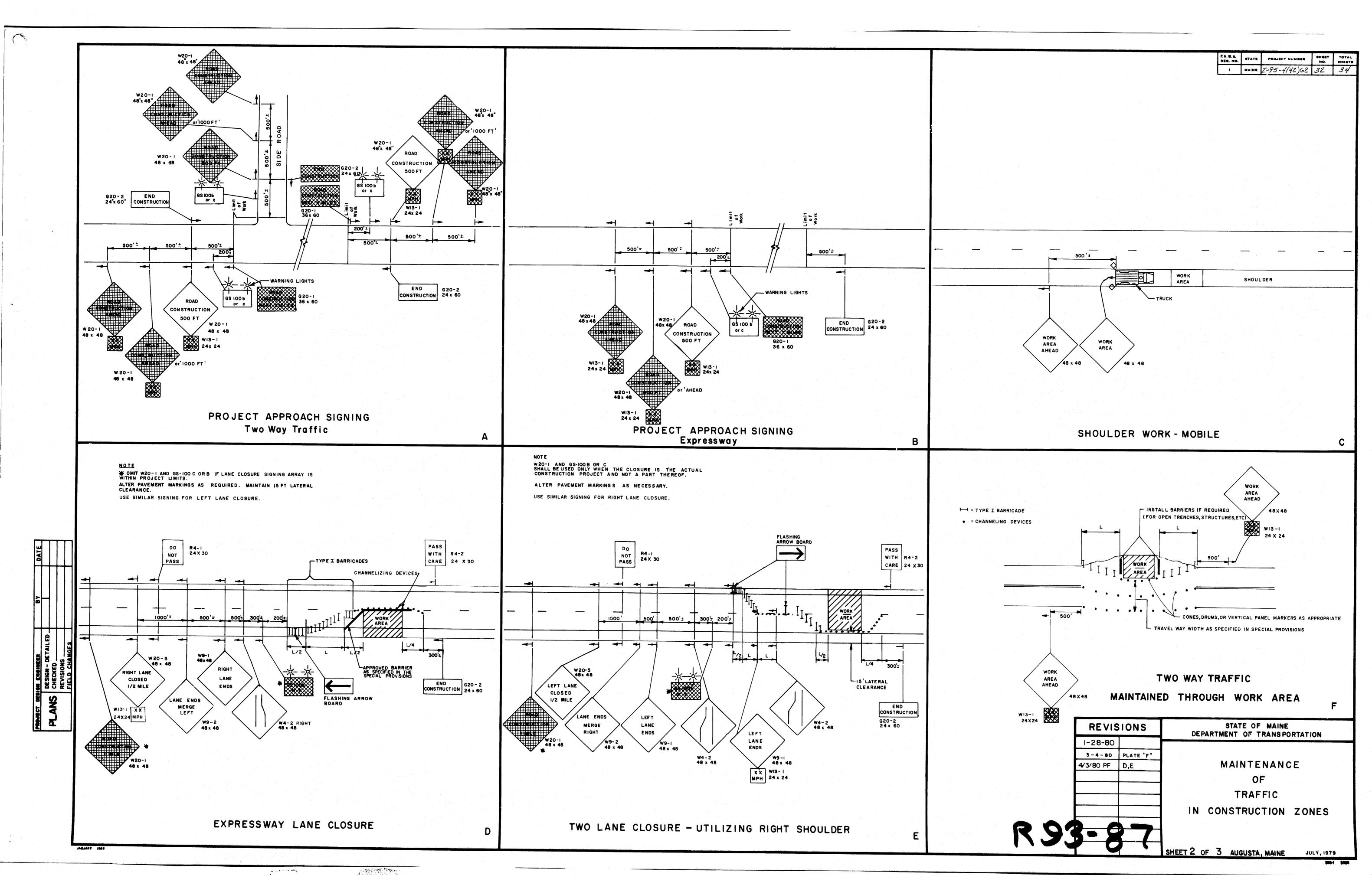
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RH.W.A. REG. NO. T MAINE PROJECT NUMBER SHEETS MAINE 7-95-41(42)62 31 34 GENERAL NOTES 1. Distances shown for sign placement are nominal, exact locations shall be determined by the Engineer. 2. Grades on temporary roadways through the construction zone used by the public shall not exceed 10 percent. 3. Advisory speed consistant with prevailing conditions shall be as deter-mined by the Engineer. 4. Use snaded signs when specified in the Special Provisions. 5. The length of tapers shall be determined from the following formulae: LETTER SIZE SHALL BE 8" SERIES "D" If S is equal to or  $\perp$ ess than <sup>1</sup>40 MPH L = (W x S x S) / 60 UPPER CASE LETTERS If S is equal to or greater than 45 MPH L = WSWhere: EFT L = taper length in feet S = operating speed in MPH W = width of roadway to be closed in feet 4 3/4" Taper lengths shall be rounded to the nearest five feet. 4 3/4" It may be required to extend lane closure tapers to provide a smooth transition where geometric alignment reduces sight distance. TRUCKS 6. The maximum longitudinal spacing of channelizing devices shall conform the maximum fongituathat spacing of chamberizing devices shall of to the following:

 (a) 50 feet through work areas
 (b) A distance in tapers equal to the numerical value of the operating speed, i.e., 45 MPH = 45 feet
 (c) in all areas not covered above maximum spacing shall be as follows: Radius of curve Spacing

 50' to 300' 301' to 700' 701' to 1000' over 1000' 5 times the operating speed E The maximum transverse spacing in tapers shall be determined from the the following formula:  $D = (W \times S) / L$ Where: D = transverse spacing in feet W = width of roadway to be closed in feet L = taper length in feet S = operating speed in MPH 7. BORDER DIMENSIONS AND LEGEND DESIGN SHALL CONFORM TO THE STANDARD HIGHWAY SIGNS BOOKLET. STATE OF MAINE DEPARTMENT OF TRANSPORTATION REVISIONS 3-4-80 GENERAL NOTES 4/3/80 PF A,B,C,GN MAINTENANCE OF TRAFFIC IN CONSTRUCTION ZONES SHEET 1 OF 3 AUGUSTA, MAINE Feb 1984 202-1 2000

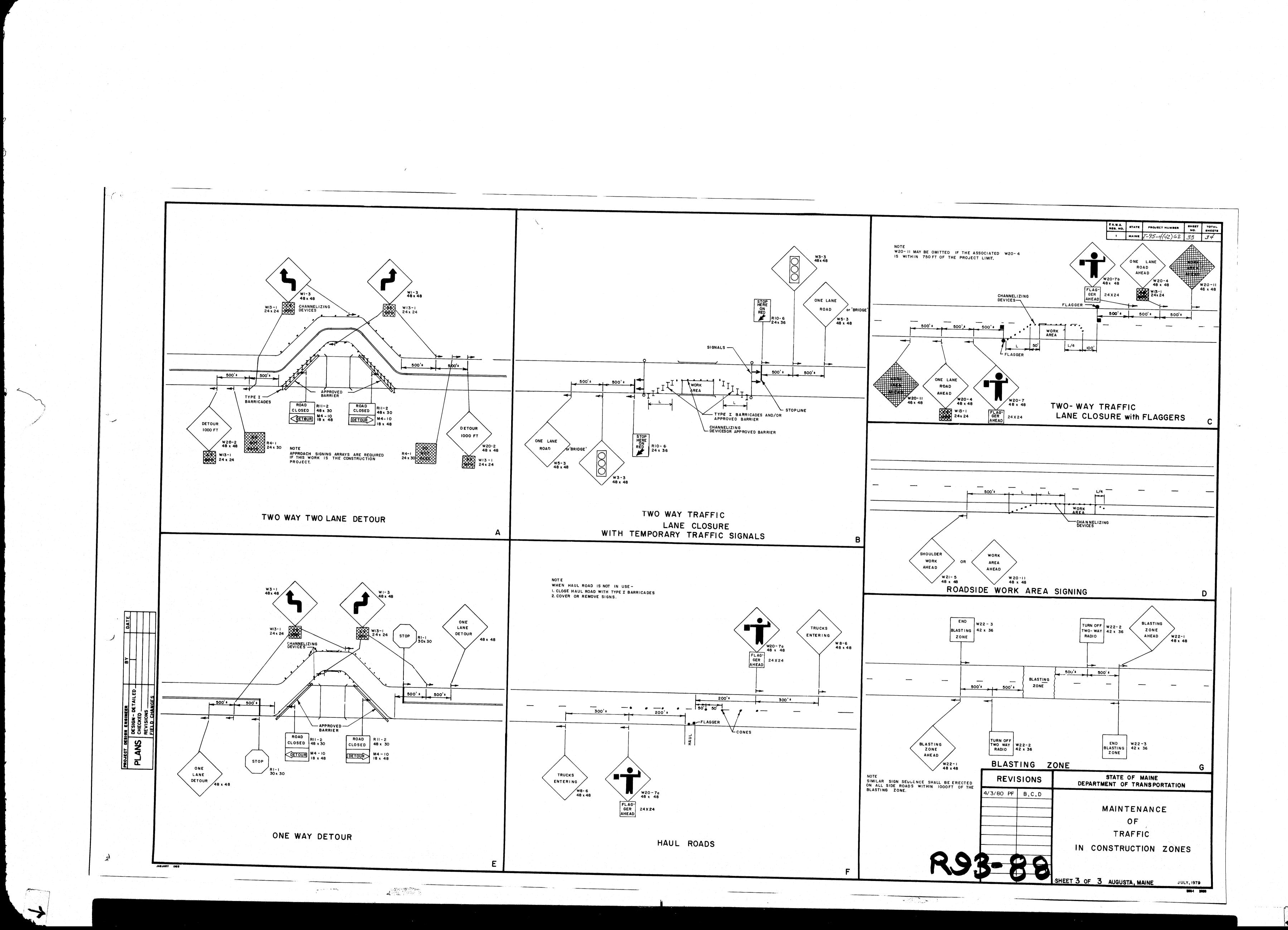




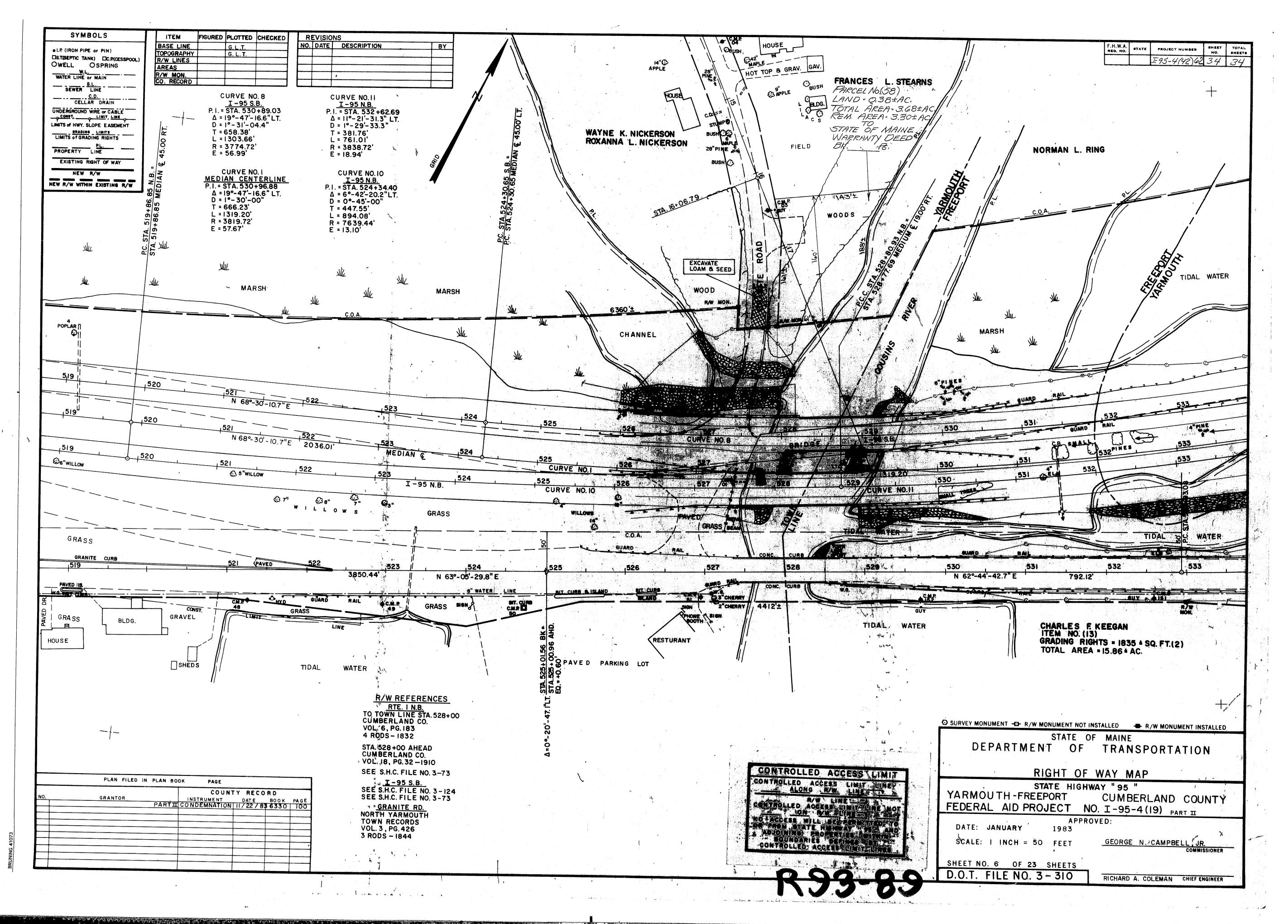
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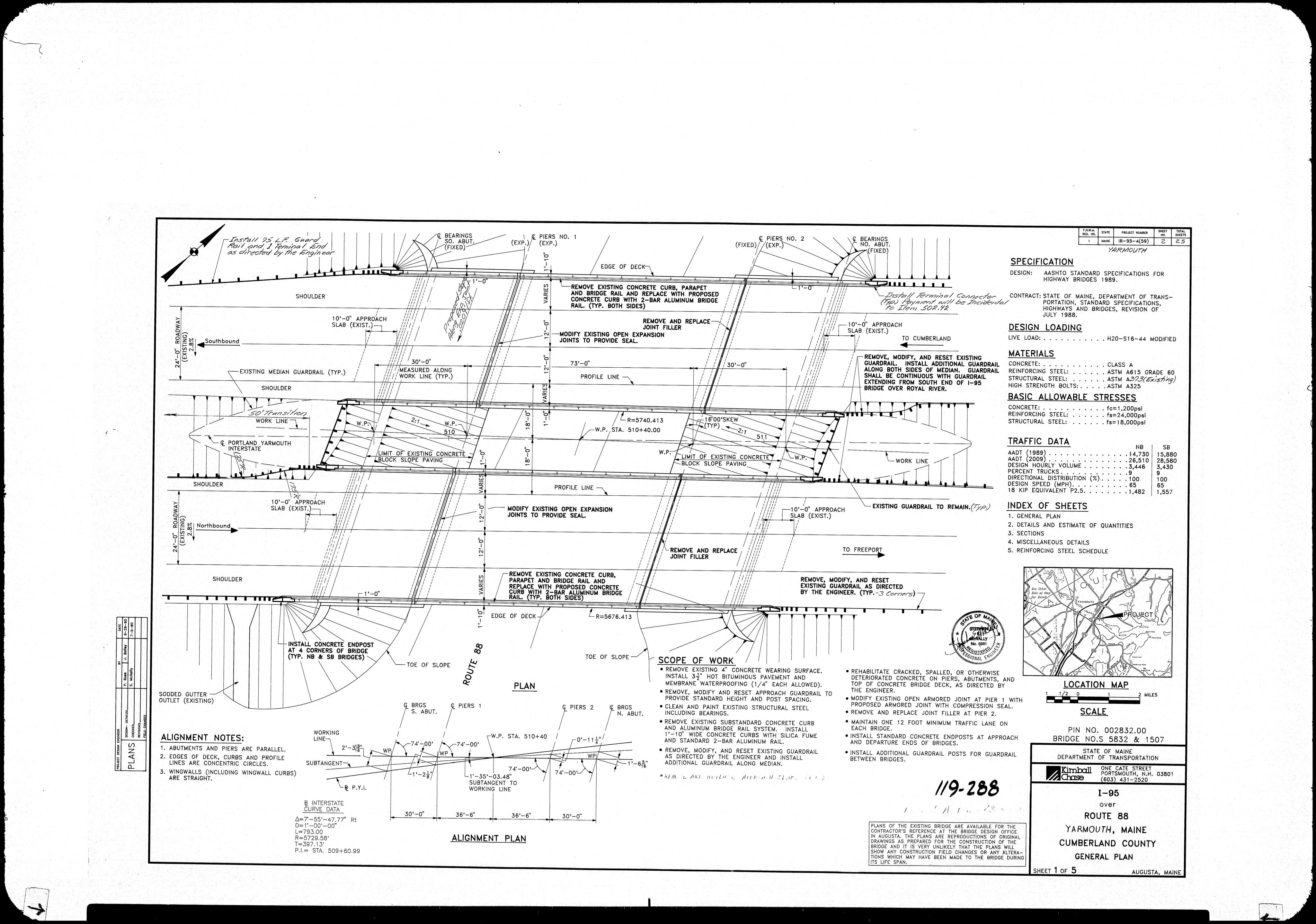


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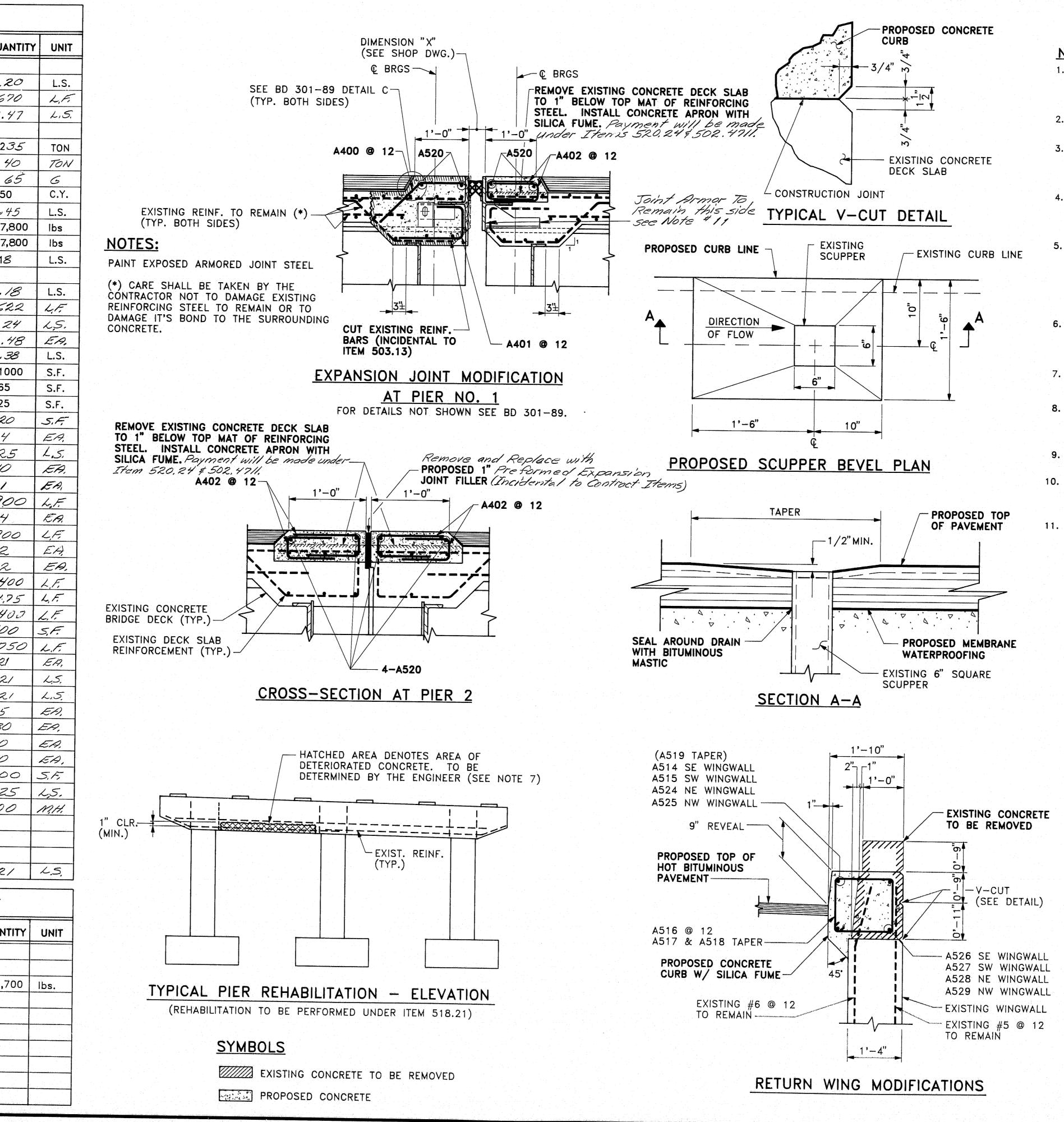
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606.265       Terminal End-Single Rail ~ Galvanized Steel         606.364       Guardrail-Remove, Medify, and Reset Type 3b       15         606.367       Replace Unusable Existing Guard Rail Post       16         606.55       Guardrail Type 3~Single Rail       17         606.751       Widen Shoulder For Breakaway Coble Terminal       16         606.752       Breakaway Cable Terminal       16         606.751       Widen Shoulder For Breakaway Coble Terminal       16         606.752       Breakaway Cable Terminal       16         606.751       Ginch Solid While Pavement Marking Line       17         627.621       Ginch Broken White Pavement Marking Line       17         627.631       Ginch Solid Yellew Pavement Marking Line       17         627.631       Ginch Solid Yellew Revenent Marking Line, Yellow or While 1       16         627.67       Removing Pavement Marking Line, Yellow or While 1       16         637.18       Field Office Type A       0.         637.23       Testing Facilities Bituminous Mixes       0.         637.23       Testing Facilities Concrete       0.         652.35       Construction Signs       3.         652.35       Construction Signs       3.         657.10       Moblization	202.117       Rem. Exist. Reil - Property of Contractor         202.117       Rem. Exist. Str. Canc.         403.10       HOT BITUMINOUS PAVEMENT, GRADING D         403.12.1       Hot Bituminous Pavement, Grading E         1709.15       Bituminous Pavement, Grading E         1709.15       Bituminous Pavement, Grading E         502.42       Struct. CONC. RDW & SUMUK SLAB ON STEEL BRIDGES         502.411       SILICA FUME ADDITIVE         503.13       REINFORCING STEEL, FABRICATION AND DELIVERED         503.13       REINFORCING STEEL, PLACING         506.17       Surf. Prep. EXISTING STRUCTURAL STEEL         506.17       Surf. Prep. EXISTING STRUCTURAL STEEL         506.17       Burninum Bridge Railing, 2-Bor         507.072       Rumninum Bridge Railing, 2-Bor         508.13       Membrane Waterproofing         514.06       Curring Bax for Concrete Cylliders         515.21       PROTECTIVE COALING FOR CONCRETE SUBSTRUCTUR         518.30       REHAB. OF STRUC. CONC. SLAB - TO REINFORCING STEEL         518.31       REHAB. OF STRUC. CONC. SLAB - TO REINFORCING STEEL         518.32       Rehab. of Struct. Conc. SLAB - TO REINFORCING STEEL         518.33       Rehab. of Struct. Conc. SLAB - TO REINFORCING STEEL         518.34       Rehab. of Struct. Conc. S			
202.1/F       Rem. Exist. Str. Conc.       0         202.1/7       Rem. Exist. Str. Conc.       0         403.10       HOT BITUMINOUS PAVEMENT, GRADING D       0         403.11       Hot BITUMINOUS PAVEMENT, GRADING D       0         403.12       Hot BITUMINOUS PAVEMENT, GRADING D       0         409.15       BiTuminous Favement, Grading E       0         502.42       STRUC. CONC. ROWY & SDWLK SLAB ON STEEL BRIDGES       0         503.13       REINFORCING STEEL, PLACING       0         503.13       REINFORCING STEEL, PLACING       0         503.13       REINFORCING STEEL, PLACING       0         504.172       Field Pauhting Existing Structural Steel       0         505.07072       Relmembrane Water prooffing       0         515.21       PROTECTIVE COATING FOR CONCRETE SUBSTRUCTURE       0         515.21       PROTECTIVE COATING FOR CONCRETE SUBSTRUCTURE       0         515.21       REHAB. OF STRUC. CONC. SLAB - TO REINFORCING STEEL       518.30         518.31       REHAB. OF STRUC. CONC. SLAB - TO REINFORCING STEEL       518.32         518.32       Remaber Struc Conc. SLAB - TO REINFORCING STEEL       518.32         518.32       Remaber Struc Conc. SLAB - TO REINFORCING STEEL       518.32         518.32<	202.19       Rem. Exist. Seri. Conc.         202.17       Rem. Exist. Str. Conc.         403.10       HOT BITUMINOUS PAVEMENT, GRADING D         403.11       Hot Bituminous Povement, Grading E         199.12       Bituminous Pavement, Grading E         199.13       Bituminous Povement, Grading E         199.14       Hot Bituminous Povement, Grading E         199.15       Bitumineus Tack Coal Applied         502.42       STRUC. CONC. RDWY & SDWLK SLAB ON STEEL BRIDGES         502.47       SLICA. FUME ADDITIVE         503.12       REINFORCING STEEL, FABRICATION AND DELIVERED         503.13       REINFORCING STEEL, PLACING         506.17       Surf. Frep. EXISTING STRUCTURAL STEEL         506.17       Surf. Frep. EXISTING STRUCTURAL STEEL         507.072       Blumminum Bridge Railing, 2-Bar         508.13       Membrane Waterproofing         518.21       REHABID FSTRUC. CONC. SLAB - TO REINFORCING STEE         518.31       REHAB. OF STRUC. CONC. SLAB - TO BELOW REINF. STE         518.31       REHAB. OF STRUC. CONC. SLAB - TO BELOW REINF. STE         518.32       Rehab. of Struc. Canc. Slab - Fail Depth         528.432       Barbale of Struc. Canc. Slab - Fail Depth         528.432       Brande Struc. Canc. Slab - Fail Depth			
202.12       Rema Exist Str. Carro.       0         403.10       HOT BITUMINOUS PAVEMENT, GRADING D       1         4103.12/       Hot Bituminaus Tack Coat Appoint       1         502.42       STRUC. CONC. RDWY & SDWLK SLAB ON STEEL BRIDGES       5         502.471       SULCA FUME ADDITIVE       1         503.13       REINFORCING STEEL, FABRICATION AND DELIVERED       1         503.13       REINFORCING STEEL, FLORING       1         504.172       Surf. Prep. EXISTING STRUCTURAL STEEL       0         504.172       Field Painting Existing Structural Steel       0         505.13       Membrane Waterproofing       0         515.21       PROTECTIVE COATING FOR CONCERTE SUBSTRUCTURE       0         518.21       REHAB. OF STRUC. CONC. SLAB - TO REINFORCING STEEL       0         518.31       REHAB. OF STRUC. CONC. SLAB - TO BELOW REINF, STEEL       0         518.31       REHAB. OF STRUC. CONC. SLAB - TO BELOW REINF, STEEL       0         518.31       REHAB. OF STRUC. CONC. SLAB - TO BELOW REINF, STEEL       0         518.32       Remained Single Rain - Galvanized Steel       0         522.400       Bringer Single Rain - Galvanized Steel       0         518.32       Refrabel Crash Barries       0         522.41 </td <td>202.17       Rem. Exist. Str. Conc.         403.10       HOT BITUMINOUS PAVEMENT, GRADING D         403.12       Hot Bituminous Pavement, Grading E         149.15       Situminous Tack Coat Applied         502.471       SILCA FUME ADDITIVE         503.12       REINFORCING STEEL, FABRICATION AND DELIVERED         503.13       REINFORCING STEEL, FABRICATION AND DELIVERED         504.172       Field Painthing Existing Structural steel         506.172       Field Painthing Existing Structural steel         506.172       Field Painthing Existing Structural steel         506.172       Field Painthing Existing Structural steel         507.072       Aluminum Bridge Railing, 2-Bar         508.13       Membrane Waterproofing         515.21       PROTECTIVE COATING FOR CONCRETE SUBSTRUCTURE         518.21       REHAB. OF STRUC. CONC. SLAB - TO REINFORCING STEEL         518.31       REHAB. OF STRUC. CONC. SLAB - TO BELOW REINF, STE         518.32       Rehab of Strue. Conc. SLAB - TO BELOW REINF, STE         518.31       REHAB. OF STRUC. CONC. SLAB - TO REINFORCING STEEL         518.31       REHAB. OF STRUE. CONC. SLAB - TO REINFORCING STEEL         518.32       Rehab of Strue. Conc. SLAB - TO REINFORCING STEEL         518.32       Rehab of Strue. Conco. SLAB - Full Depth</td> <td>· · · · · ·</td>	202.17       Rem. Exist. Str. Conc.         403.10       HOT BITUMINOUS PAVEMENT, GRADING D         403.12       Hot Bituminous Pavement, Grading E         149.15       Situminous Tack Coat Applied         502.471       SILCA FUME ADDITIVE         503.12       REINFORCING STEEL, FABRICATION AND DELIVERED         503.13       REINFORCING STEEL, FABRICATION AND DELIVERED         504.172       Field Painthing Existing Structural steel         506.172       Field Painthing Existing Structural steel         506.172       Field Painthing Existing Structural steel         506.172       Field Painthing Existing Structural steel         507.072       Aluminum Bridge Railing, 2-Bar         508.13       Membrane Waterproofing         515.21       PROTECTIVE COATING FOR CONCRETE SUBSTRUCTURE         518.21       REHAB. OF STRUC. CONC. SLAB - TO REINFORCING STEEL         518.31       REHAB. OF STRUC. CONC. SLAB - TO BELOW REINF, STE         518.32       Rehab of Strue. Conc. SLAB - TO BELOW REINF, STE         518.31       REHAB. OF STRUC. CONC. SLAB - TO REINFORCING STEEL         518.31       REHAB. OF STRUE. CONC. SLAB - TO REINFORCING STEEL         518.32       Rehab of Strue. Conc. SLAB - TO REINFORCING STEEL         518.32       Rehab of Strue. Conco. SLAB - Full Depth	· · · · · ·		
403.10       HOT BITUMINOUS PAVEMENT, GRADING D.         403.12/       Hot Bituminous Pavement, Grading £         407.15       Bituminous Tack Caol Appohent         502.42       STRUC. CONC. RDWY & SDWLK SLAB ON STEEL BRIDGES         502.41       SILICA TUME ADDITIVE         603.12       REINFORCING STEEL, FABRICATION AND DELIVERED         503.13       REINFORCING STEEL, FABRICATION AND DELIVERED         506.172       Surf. Prep. EXISTING STRUCTURAL STEEL         506.172       Field Painthy Existing Structural Steel         506.172       Field Painthy Existing Structural Steel         507.072       Aluminum Bridge Railing, 2-Bor         508.13       REMABRANE Waterproofing         6       Struct Couring Box For Concreate Cythioderss         515.21       PROTECTIVE CONTING FOR CONCRETE SUBSTRUCTURE         518.31       REHAB. OF STRUC. CONC. SLAB - TO REINFORCING STEEL         518.31       REHAB. OF STRUC. CONC. SLAB - TO REINFORCING STEEL         518.31       REHAB. OF STRUC. CONC. SLAB - TO REINFORCING STEEL         518.32       Rehab. of Struct. Conc. SLAB - TO REINFORCING STEEL         518.32       Rehab. of Struct. Conc. SLAB - TO REINFORCING STEEL         518.32       Rehab. OF STRUC. CONC. SLAB - TO REINFORCING STEEL         518.32       Rehab. OF Struct. Conc. Slab - To HILL Dep	403.10       HOT BITUMINOUS PAVEMENT, GRADING D         1/03.12/       Hot Bituminous Pavement, Grading E         1/09.15       Siluminaus Toak Coat Applied         502.42       STRUC. CONC. RWY & SDWLK SLAB ON STEEL BRIDGES         502.411       SILICA FUME ADDITIVE         503.13       REINFORCING STEEL, FABRICATION AND DELIVERED         503.13       REINFORCING STEEL, PLACING         506.17       Surf. Frep. EXISTING STRUCTURAL STEEL         506.172       Field Painting Existing Structural Steel         506.072       Alumnium Bridge Ruiling, 2-Bar         508.13       Meenbrane Waterproofing         578.02       Meenbrane Waterproofing         518.21       PROTECTIVE COATING FOR CONCRETE SUBSTRUCTUR         518.31       REHAB. OF STRUC. CONC. SLAB - TO BELOW REINF. STE         518.31       REHAB. OF STRUC. CONC. SLAB - TO BELOW REINF. STE         518.30       Emporary Concrete Barrier         528.53       Emporary Concrete Barrier         528.54       Emporary Concrete Barrier         508.25       Farninal End- Single Rull's, and Reset Type 3b         606.55       Guardrail-Remove, MediSt, and Reset Type 3b         606.55       Guardrail Type 3-Single Rull         606.55       Guardrail Type 3-Single Rull         606.55 <td></td>			
4123.12/       Hot Bituminaus Pavement, Grading E         4109.15       Bituminaus Tack Coat Applied         502.42       STRUC. CONC. RDWY & SDWLK SLAB ON STEEL BRIDGES         502.42       STRUC. CONC. RDWY & SDWLK SLAB ON STEEL BRIDGES         502.41       SULCA FUME ADDITIVE         503.12       REINFORCING STEEL, FABRICATION AND DELIVERED         503.13       REINFORCING STEEL, PLACING         504.17       Surf. Prep. EXISTING STRUCTURAL STEEL         60.172       Field Painthy Existing Structural Steel         60       Struct Prep. EXISTING STRUCTURAL STEEL         504.072       Aluminum Bridge Railing, 2-Bar         505.13       Membrane Waterproofing         515.21       PROTECTIVE COATING FOR CONCETE SUBSTRUCTURE         518.30       REHAB. OF STRUC. CONC. SLAB - TO BELOW REINF. STEEL         518.31       REHAB. OF STRUC. CONC. SLAB - TO BELOW REINF. STEEL         518.32       Rehab. of Struc. Conc. Slab - Full Depth         528.391       Fandorary Concrede Barrier         518.30       REINFORCING TEST. FOULT BS         528.392       Fortable Crossk Barriels         606.364       Guardroil-Remove, Medify, and Reset Type 3b         528.391       Fandoral Cold Tarring Guard Call Plast         606.555       Guardroil-Removes, Medify, and Reset T	103.12/       Hat Bituminous Taok Coal Applied         502.42       STRUC. CONC. RDWY & SOWLK SLAB ON STEEL BRIDGES         502.471       SILCA FUME ADDITIVE         503.12       REINFORCING STEEL, FABRICATION AND DELIVERED         503.13       REINFORCING STEEL, PLACING         504.171       Surf. Prep. EXISTING STRUCTURAL STEEL         506.172       Field Painthing Existing Structural Steel         506.172       Field Painthing Existing Structural Steel         507.072       Aluminum Bridge Rolling, 2-Bor         508.172       Fred Painthing Existing Structural Steel         507.072       Aluminum Bridge Rolling, 2-Bor         508.172       PROTECTIVE COATING FOR CONCRETE SUBSTRUCTURAL         518.21       REHAB. OF STRUC. CONC. SLAB - TO REINFORCING STEEL         518.21       REHAB. OF STRUC. CONC. SLAB - TO ELOW REINF. STE         518.31       REHAB. OF STRUC. CONC. SLAB - TO ELOW REINF. STE         518.32       Rehab. of Strue. Conc. SLAB - TO ELOW REINF. STE         518.31       REHAB. OF STRUE. CONC. SLAB - TO ELOW REINF. STE         518.32       Rehab. STRUE. CONC. SLAB - TO ELOW REINF. STE         518.32       Rehab. STRUE. CONC. SLAB - TO ELOW REINF. STE         518.32       Rehab. STRUE. CONC. SLAB - TO ELOW REINF. STE         518.32       Rehab. STRUE. CONC. SLAB - TO ELOW			
4123.12/       Hot Bituminaus Pavement, Grading E         4109.15       Bituminaus Tack Coat Applied         502.42       STRUC. CONC. RDWY & SDWLK SLAB ON STEEL BRIDGES         502.42       STRUC. CONC. RDWY & SDWLK SLAB ON STEEL BRIDGES         502.41       SULCA FUME ADDITIVE         503.12       REINFORCING STEEL, FABRICATION AND DELIVERED         503.13       REINFORCING STEEL, PLACING         504.17       Surf. Prep. EXISTING STRUCTURAL STEEL         60.172       Field Painthy Existing Structural Steel         60       Struct Prep. EXISTING STRUCTURAL STEEL         504.072       Aluminum Bridge Railing, 2-Bar         505.13       Membrane Waterproofing         515.21       PROTECTIVE COATING FOR CONCETE SUBSTRUCTURE         518.30       REHAB. OF STRUC. CONC. SLAB - TO BELOW REINF. STEEL         518.31       REHAB. OF STRUC. CONC. SLAB - TO BELOW REINF. STEEL         518.32       Rehab. of Struc. Conc. Slab - Full Depth         528.391       Fandorary Concrede Barrier         518.30       REINFORCING TEST. FOULT BS         528.392       Fortable Crossk Barriels         606.364       Guardroil-Remove, Medify, and Reset Type 3b         528.391       Fandoral Cold Tarring Guard Call Plast         606.555       Guardroil-Removes, Medify, and Reset T	103.12/       Hat Bituminous Taok Coal Applied         502.42       STRUC. CONC. RDWY & SOWLK SLAB ON STEEL BRIDGES         502.471       SILCA FUME ADDITIVE         503.12       REINFORCING STEEL, FABRICATION AND DELIVERED         503.13       REINFORCING STEEL, PLACING         504.171       Surf. Prep. EXISTING STRUCTURAL STEEL         506.172       Field Painthing Existing Structural Steel         506.172       Field Painthing Existing Structural Steel         507.072       Aluminum Bridge Rolling, 2-Bor         508.172       Fred Painthing Existing Structural Steel         507.072       Aluminum Bridge Rolling, 2-Bor         508.172       PROTECTIVE COATING FOR CONCRETE SUBSTRUCTURAL         518.21       REHAB. OF STRUC. CONC. SLAB - TO REINFORCING STEEL         518.21       REHAB. OF STRUC. CONC. SLAB - TO ELOW REINF. STE         518.31       REHAB. OF STRUC. CONC. SLAB - TO ELOW REINF. STE         518.32       Rehab. of Strue. Conc. SLAB - TO ELOW REINF. STE         518.31       REHAB. OF STRUE. CONC. SLAB - TO ELOW REINF. STE         518.32       Rehab. STRUE. CONC. SLAB - TO ELOW REINF. STE         518.32       Rehab. STRUE. CONC. SLAB - TO ELOW REINF. STE         518.32       Rehab. STRUE. CONC. SLAB - TO ELOW REINF. STE         518.32       Rehab. STRUE. CONC. SLAB - TO ELOW			
109.15       Biluminaus Tack Coal Applied         502.42       STRUC, CONC, RUWY & SDWLK SLAB ON STEEL BRIDGES         502.47.11       SILCA FUME ADDITIVE         503.12       REINFORCING STEEL, FARRICATION AND DELIVERED         503.13       REINFORCING STEEL, FARRICATION AND DELIVERED         506.17       Surf. Prep. EXISTING STRUCTURAL STEEL       0         506.172       Field Painthy Existing Structural Steel       0         506.172       Field Painthy Existing Structural Steel       0         508.17       Reinford Bax For Concrete Cylinders       0         508.18       Mambrane Waterparaefing       0         515.21       PROTECTIVE COATING FOR CONCRETE SUBSTRUCTURE       0         518.21       REHABILITATION OF STRUCT CONC. SLAB - TO REINFORCING STEEL       0         518.31       REHAB. OF STRUC, CONC. SLAB - TO REINFORCING STEEL       5         518.31       REHAB. OF STRUC, CONC. SLAB - TO REINFORCING STEEL       0         528.50       Temporary Concrete Barrior       0         528.50       Temporary Concrete Barrior       0         528.50       Guardrail-Remos, MediSi, and Reset Type 3b       1         606.324       Guardrail-Remos, MediSi, and Reset Type 3b       1         606.332       Replace Unusoble Existing Guard Rail Past <td>149,15       Billuminus Tack Coat Applied         502.42       STRUC. CONC. ROWY &amp; SOWLK SLAB ON STEEL BRIDGES         503.12       REINFORCING STEEL, FABRICATION AND DELIVERED         503.13       REINFORCING STEEL, FABRICATION AND DELIVERED         503.13       REINFORCING STEEL, FABRICATION AND DELIVERED         503.13       REINFORCING STEEL, FABRICATION AND DELIVERED         506.172       Surf. Prep. EXISTING STRUCTURAL STEEL         506.172       Field Painthy Existing Structural Steel         507.072       Aluminum Bridge Reilling, 2-Bar         508.13       Membrane Waterproofing         517.21       PROTECTIVE COATING FOR CONCRETE SUBSTRUCTURE         518.21       REHABILITION OF STRUCTURAL CONCRETE SUBSTRUCTURE         518.30       REHAB. OF STRUC. CONC. SLAB - TO REINFORCING STEEL         518.31       REHAB. OF STRUC. CONC. SLAB - TO BELOW REINF. STE         518.32       Rehab of Struct. Conc. SLAB - TO BELOW REINF. STE         518.33       REHAB. OF STRUC. CONC. SLAB - TO BELOW REINF. STE         518.31       REHAB. OF STRUC. CONC. SLAB - TO REINFORCING STEEL         518.32       Rehab of Struct. Conc. SLAB - TO REINFORCING STEEL         518.31       REHAB. OF STRUC. CONC. SLAB - TO REINFORCING STEEL         518.32       Rehab. of Struct. Conc. Slab - Furting Dearting Deart Rest</td> <td></td>	149,15       Billuminus Tack Coat Applied         502.42       STRUC. CONC. ROWY & SOWLK SLAB ON STEEL BRIDGES         503.12       REINFORCING STEEL, FABRICATION AND DELIVERED         503.13       REINFORCING STEEL, FABRICATION AND DELIVERED         503.13       REINFORCING STEEL, FABRICATION AND DELIVERED         503.13       REINFORCING STEEL, FABRICATION AND DELIVERED         506.172       Surf. Prep. EXISTING STRUCTURAL STEEL         506.172       Field Painthy Existing Structural Steel         507.072       Aluminum Bridge Reilling, 2-Bar         508.13       Membrane Waterproofing         517.21       PROTECTIVE COATING FOR CONCRETE SUBSTRUCTURE         518.21       REHABILITION OF STRUCTURAL CONCRETE SUBSTRUCTURE         518.30       REHAB. OF STRUC. CONC. SLAB - TO REINFORCING STEEL         518.31       REHAB. OF STRUC. CONC. SLAB - TO BELOW REINF. STE         518.32       Rehab of Struct. Conc. SLAB - TO BELOW REINF. STE         518.33       REHAB. OF STRUC. CONC. SLAB - TO BELOW REINF. STE         518.31       REHAB. OF STRUC. CONC. SLAB - TO REINFORCING STEEL         518.32       Rehab of Struct. Conc. SLAB - TO REINFORCING STEEL         518.31       REHAB. OF STRUC. CONC. SLAB - TO REINFORCING STEEL         518.32       Rehab. of Struct. Conc. Slab - Furting Dearting Deart Rest			
502.42       STRUC. CONC. RDWY & SDWLK SLAB ON STEEL BRIDGES         502.4211       SILICA FUME ADDITIVE         503.12       REINFORCING STEEL, FABRICATION AND DELIVERED         503.13       REINFORCING STEEL, FLACING         506.17       Surf. Prop. EXISTING STRUCTURAL STEEL         506.172       Field Painting Existing Structural Steel         506.172       Field Painting Existing Structural Steel         506.172       Membrane Waterproofing         507.0727       Aluminum Bridge Railing, 2-Bar         507.0727       Aluminum Bridge Railing, 2-Bar         515.21       PROTECTVE COATING FOR CONCRETE SUBSTRUCTURE         518.21       REHABILITATION OF STRUCTURAL CONCRETE SUBSTRUCTURE         518.30       REHAB. OF STRUC. CONC. SLAB - TO REINFORCING STEEL         518.31       REHAB. OF STRUC. CONC. SLAB - TO BELOW REINF. STEEL         518.31       REHAB. OF STRUC. CONC. SLAB - TO REINFORCING STEEL         518.30       Rehab. of STRUC. CONC. SLAB - TO REINFORCING STEEL         518.31       REHAB. OF STRUC. CONC. SLAB - TO REINFORCING STEEL         518.31       REHAB. OF STRUC. CONC. SLAB - TO REINFORCING STEEL         528.300       Bridge Jaint Modification I=257/Routfe BB         528.301       Bridge Jaint Modification I=257/Routfe BB         528.302       Brachaway Cable Existing and	502.42       STRUC. CONC. RDWY & SDWLK SLAB ON STEEL BRIDGES         502.4711       SILICA FUME ADDITIVE         503.13       REINFORCING STEEL, FLACING         503.13       REINFORCING STEEL, PLACING         504.17       SULF, Frep. EXISTING STRUCTURAL STEEL         506.17       Sulf, Frep. EXISTING STRUCTURAL STEEL         506.17       Field Painthy Existing Structural Steel         507.072       Aluminum Bridge Railing, 2-Bar         508.13       Membrane Waterproofing         514.21       PROTECTIVE COATING FOR CONCRETE SUBSTRUCTURE         518.21       REHAB. OF STRUC, CONC. SLAB - TO BELOW REINF, STE         518.30       REHAB. OF STRUC, CONC. SLAB - TO BELOW REINF, STE         518.31       REHAB. OF STRUC, CONC. SLAB - TO BELOW REINF, STE         518.31       REHAB. OF STRUC, CONC. SLAB - TO BELOW REINF, STE         518.31       REHAB. OF STRUC, CONC. SLAB - TO BELOW REINF, STE         518.32       Rehab. of Struc, Conc. Slab - Full Depth         528.430       Tempocrary Concreate Barrier         528.431       Tempocrary Concreate Barrier         528.322       Portable Crash Barriels         608.426       Tempocrary Concreate Marking Cuard Rail Post         608.367       Replace Unusable Existing Guard Rail Post         606.364       Guardrail			
S02.4711       SUICA FUNE ADDITI'S       ()         S03.12       REINFORCING STEEL, FABRICATION AND DELIVERED       ()         S03.13       REINFORCING STEEL, PLACING       ()         S06.17       Surf. Prop. EXISTING STRUCTURAL STEEL       ()         S06.172       Field Painthing Existing Structural Steel       ()         S06.172       Field Painthing Existing Structural Steel       ()         S07.0722       Aluminum Stridge Railing, 2-Sar       ()         S08.13       Membrane Waterproofing       ()         S08.13       Membrane Waterproofing       ()         S18.21       PROTECTIVE COATING FOR CONCRETE SUBSTRUCTURE       ()         S18.31       REHAB. OF STRUC. CONC. SLAB - TO REINFORCING STEEL       ()         S18.31       REHAB. OF STRUC. CONC. SLAB - TO REINFORCING STEEL       ()         S18.31       REHAB. OF STRUC. CONC. SLAB - TO REINFORCING STEEL       ()         S18.31       REHAB. OF STRUC. CONC. SLAB - TO REINFORCING STEEL       ()         S18.31       REHAB. OF STRUC. CONC. SLAB - TO REINFORCING STEEL       ()         S27.32       Partobe Cross Barrels       ()         S08.255       Guardrail End-Single Roll - Galvenized Steel       ()         S08.255       Guardrail End-Single Roll - Galvenized Steel       ()	502.4711 SILICA FUME ADDITIVE 503.12 REINFORCING STEEL, FABRICATION AND DELIVERED 503.13 REINFORCING STEEL, FABRICATION AND DELIVERED 503.13 REINFORCING STEEL, PLACING 506.17 Surf. Prep. EXISTING STRUCTURAL STEEL 506.17 Field Painthy Existing Structural Steel 507.072 Aluminum Bridge Reiting, 2-Bar 508.13 Membrane Waterproofing 515.21 PROTECTIVE COATING FOR CONCRETE SUBSTRUCTUR 518.30 REHABILITION OF STRUCTURAL CONCRETE SUBSTRUCTUR 518.31 REHABILITION OF STRUCTURAL CONCRETE SUBSTRUCTUR 518.32 Rehab. of Struc, Canc, SLAB - TO REINFORCING STEE 518.31 REHAB. OF STRUC, CONC, SLAB - TO BELOW REINF, STE 518.32 Rehab. of Struc, Canc, SLAB - TO BELOW REINF, STE 528.32 Rehab. of Struc, Canc, SLAB - TO BELOW REINF, STE 528.32 Rehab. of Struc, Canc, SLAB - TO JELOW REINF, STE 528.32 Rehab. of Struc, Canc, SLAB - TO JELOW REINF, STE 528.32 Rehab. of Struc, Canc, SLAB - TO JELOW REINF, STE 528.32 Rehab. of Struc, Canc, SLAB - TO JELOW REINF, STE 528.32 Rehab. of Struc, Canc, SLAB - TO JELOW REINF, STE 528.32 Rehab. of Struc, Canc, SLAB - TO JELOW REINF, STE 528.33 Rehab. of Struc, Canc, SLAB - TO JELOW REINF, STE 528.33 Rehab. of Struc, Canc, SLAB - TO JELOW REINF, STE 528.33 Rehab. of Struc, Canc, SLAB - TO JELOW REINF, STE 528.33 Rehab. of Struc, Canc, SLAB - TO JELOW REINF, STE 528.33 Rehab. of Struc, Canc, SLAB - TO JELOW REINF, STE 528.33 Rehab. of Struc, Canc, SLAB - TO JELOW REINF, STE 528.33 Rehab. of Struc, Canc, SLAB - TO JELOW REINF, STE 528.33 Rehab. of Struc, Cancels 606.35 Guardrail Jene Stigle Rail-Galvanized Stocl 606.55 Guardrail Jene Stigle Rail-Galvanized Marking Line 627.62 Girch Stocken White Revennent Marking Line 627.62 Girch Stocken White Revennent Marking Line 627.63 Girch Solid Yellow Reventent Marking Line 627.63 Feature Rail Revented Marking Line 627.63 Feature Rail Revented 627.63 Feature Rail Re			
503.12       REINFORCING STEEL, FABRICATION AND DELIVERED         503.13       REINFORCING STEEL, PLACING         506.17       Surf: Prep. EXISTING STRUCTURAL STEEL         506.172       Field Painting Existing Structural Steel         507.072       Bluminum Bridge Railing, 2-Bar         508.13       Membrane Waterproofing         517.10       Curring Bax for Concrete Subfaces         518.21       PROTECTIVE COATING FOR CONCRETE SUBSTRUCTURE         518.21       REHAB. OF STRUC. CONC. SLAB - TO REINFORCING STEEL         518.31       REHAB. OF STRUC. CONC. SLAB - TO REINFORCING STEEL         518.31       REHAB. OF STRUC. CONC. SLAB - TO REINFORCING STEEL         518.32       Rehab. of STRUC. CONC. SLAB - TO REINFORCING STEEL         518.31       REHAB. OF STRUC. CONC. SLAB - TO REINFORCING STEEL         518.32       Rehab. of STRUC. CONC. SLAB - TO REINFORCING STEEL         518.31       REHAB. OF STRUC. CONC. SLAB - TO REINFORCING STEEL         528.28       Readewide Concreate Barrier         528.30       Temporary Concreate Barrier         528.32       Rearbab. of Struc. Conc. Stab - Full Depth         528.32       Readewide For Greekaway Cable Terminal         606.324       Guardrail Type 3-Single Rail         606.324       Guardrail Type 3-Single Rail <t< td=""><td>503.12       REINFORCING STEEL, FABRICATION AND DELIVERED         503.13       REINFORCING STEEL, PLACING         506.17       Surf. Prep. EXISTING STRUCTURAL STEEL         506.172       Field Painthy Existing Structural Steel         506.172       Field Painthy Existing Structural Steel         507.072       Aluminum Bridge Railing, 2-Bar         508.13       Membrane Waterproofing         517.21       PROTECTIVE COATING FOR CONCRETE SUBSTRUCTURE         518.21       REHABILITATION OF STRUCTURAL CONCRETE SUBSTRUCTURE         518.31       REHAB. OF STRUC, CONC. SLAB - TO REINFORCING STEE         518.31       REHAB. OF STRUC, CONC. SLAB - TO BELOW REINF. STE         518.31       REHAB. OF STRUC, CONC. SLAB - TO REINFORCING STEE         518.32       Rehab. of Struct. Conc. Slab - Full Depth         529.324       Bridge Joint Medification, I=25/Route ES         520.301       Empoarary Concrete Barrior         522.322       Portable Crash Barrels         606.405       Farminal End-Single Rail - Galvenized Stoel         606.307       Replace Unusable Existing Guard Rail Past         606.55       Guardrail Type 3-Single Rail         606.57       Guardrail Yeb 3-Single Terminal         606.79       Wide Shoulder Far Brackaway Cable Terminal         602.617</td><td></td></t<>	503.12       REINFORCING STEEL, FABRICATION AND DELIVERED         503.13       REINFORCING STEEL, PLACING         506.17       Surf. Prep. EXISTING STRUCTURAL STEEL         506.172       Field Painthy Existing Structural Steel         506.172       Field Painthy Existing Structural Steel         507.072       Aluminum Bridge Railing, 2-Bar         508.13       Membrane Waterproofing         517.21       PROTECTIVE COATING FOR CONCRETE SUBSTRUCTURE         518.21       REHABILITATION OF STRUCTURAL CONCRETE SUBSTRUCTURE         518.31       REHAB. OF STRUC, CONC. SLAB - TO REINFORCING STEE         518.31       REHAB. OF STRUC, CONC. SLAB - TO BELOW REINF. STE         518.31       REHAB. OF STRUC, CONC. SLAB - TO REINFORCING STEE         518.32       Rehab. of Struct. Conc. Slab - Full Depth         529.324       Bridge Joint Medification, I=25/Route ES         520.301       Empoarary Concrete Barrior         522.322       Portable Crash Barrels         606.405       Farminal End-Single Rail - Galvenized Stoel         606.307       Replace Unusable Existing Guard Rail Past         606.55       Guardrail Type 3-Single Rail         606.57       Guardrail Yeb 3-Single Terminal         606.79       Wide Shoulder Far Brackaway Cable Terminal         602.617			
503.13       REINFORCING STELL, FLACING       AND DELIVERED         506.17       Surf. Prep. EXISTING STRUCTURAL STEEL       0         506.17       Surf. Prep. EXISTING STRUCTURAL STEEL       0         506.17       Field Painting Existing Structural Steel       0         507.072       Aluminum Bridge Railing, 2-Bar       0         507.072       Aluminum Bridge Railing, 2-Bar       0         515.21       PROTECTIVE COATING FOR CONCRETE SUBSTRUCTURE       0         518.21       REHABILITATION OF STRUCTURAL CONCRETE SUBSTRUCTURE       0         518.31       REHAB. OF STRUC. CONC. SLAB - TO REINFORCING STEEL       0         518.31       REHAB. OF STRUC. CONC. SLAB - TO REINFORCING STEEL       0         518.30       Remote Joint Medification I=PS/Routle SB       0         520.307       Emporary Concrede Barrier       0         520.328       Perfolde Crash Barrier       0         606.324       Guardrail End-Single Rail- Galvanized Steel       0         606.324       Guardrail Finde Single Rail- Galvanized Steel       0         606.324       Guardrail Finde Single Rail       1       1         606.324       Guardrail Finde Single Rail       1       1         606.55       Guardrail Finde Single Rail       1 <t< td=""><td>503.13       REINFORCING STEEL, PLACING         506.17       Surf. Prep. EXISTING STRUCTURAL STEEL         506.17       Surf. Prep. EXISTING STRUCTURAL STEEL         506.172       Field Painting Existing Structural Steel         507.072       Aluminium Bridge Railing, 2-Bar         508.13       Membrane Waterproofing         511.21       PROTECTIVE COATING FOR CONCRETE SUBFACES         518.21       PROTECTIVE COATING FOR CONCRETE SUBSTRUCTURAL         518.31       REHAB. OF STRUC. CONC. SLAB - TO REINFORCING STEE         518.32       REHAB. OF STRUC. CONC. SLAB - TO BELOW REINF. STE         518.31       REHAB. OF STRUC. CONC. SLAB - TO BELOW REINF. STE         518.32       Rehab. of Struc. Conc. Slab - Full Depth         528.28       Rehab. of Struc. Conc. Slab - Full Depth         528.30       Temporary Concrete Barmber         520.312       Portoble Crosh Barrels         606.324       Generdrail-Remove, Medify, and Reset Type 3b         606.325       Guardrail Type 3-Single Rail         606.326       Replace Unasoble Existing Guard Rail Post         606.327       Widen Shaulder For Breokaway Coble Terminal         606.326       Guardrail Type 3-Single Rail         606.327       Widen Shaulder For Breokaway Coble Terminal         627.621       Guark</td><td>6</td></t<>	503.13       REINFORCING STEEL, PLACING         506.17       Surf. Prep. EXISTING STRUCTURAL STEEL         506.17       Surf. Prep. EXISTING STRUCTURAL STEEL         506.172       Field Painting Existing Structural Steel         507.072       Aluminium Bridge Railing, 2-Bar         508.13       Membrane Waterproofing         511.21       PROTECTIVE COATING FOR CONCRETE SUBFACES         518.21       PROTECTIVE COATING FOR CONCRETE SUBSTRUCTURAL         518.31       REHAB. OF STRUC. CONC. SLAB - TO REINFORCING STEE         518.32       REHAB. OF STRUC. CONC. SLAB - TO BELOW REINF. STE         518.31       REHAB. OF STRUC. CONC. SLAB - TO BELOW REINF. STE         518.32       Rehab. of Struc. Conc. Slab - Full Depth         528.28       Rehab. of Struc. Conc. Slab - Full Depth         528.30       Temporary Concrete Barmber         520.312       Portoble Crosh Barrels         606.324       Generdrail-Remove, Medify, and Reset Type 3b         606.325       Guardrail Type 3-Single Rail         606.326       Replace Unasoble Existing Guard Rail Post         606.327       Widen Shaulder For Breokaway Coble Terminal         606.326       Guardrail Type 3-Single Rail         606.327       Widen Shaulder For Breokaway Coble Terminal         627.621       Guark	6		
S06.17       Surf. Frep. EXISTING STRUCTURAL STEEL       0.         S06.172       Field Painting Existing Structural Steel       0.         S06.172       Field Painting Existing Structural Steel       0.         S07.072       Aluminum Bridge Railing, 2-Bar       0.         S08.15       Mambrane Waterproofing       0.         S18.21       PROTECTIVE COATING FOR CONCRETE SUBSTRUCTURE       0.         S18.21       REHABLITATION OF STRUCTURAL CONCRETE SUBSTRUCTURE       518.31         S18.31       REHAB. OF STRUC. CONC. SLAB - TO REINFORCING STEEL       518.31         S18.32       Rehab. of STRUC. CONC. SLAB - TO REINFORCING STEEL       578.32         S18.31       REHAB. OF STRUC. CONC. SLAB - TO REINFORCING STEEL       578.32         S18.31       REHAB. OF STRUC. CONC. SLAB - TO REINFORCING STEEL       578.32         S18.31       REHAB. OF STRUC. CONC. SLAB - TO REINFORCING STEEL       578.32         S18.31       RENDERCY Concrete Barrier       0.         S20.32       Partable Crass Barriels       7.         S08.32       Replace Unusable Existing Guard Rail Past       606.324         Guardrail-Remove, Medify, and Reset Type 3b       7.         606.324       Guardrail-Remove, Medify, and Reset Type 3b       7.         606.324       Guardrail Type S-si	S06.17       Surf. Prep. EXISTING STRUCTURAL STEEL         S06.172       Field Painting Existing Structural Steel         S07.072       Aluminum Bridge Railing, 2-Bar         S08.13       Membrane Waterproofing         S18.24       Aluminum Bridge Railing, 2-Bar         S08.13       Membrane Waterproofing         S18.21       REMAB. OF STRUC CONCETE SUBSTRUCTUR         S18.21       REHAB. OF STRUC. CONC. SLAB - TO REINFORCING STEE         S18.31       REHAB. OF STRUC. CONC. SLAB - TO BELOW REINF. STE         S18.32       Rehab. of STRUC. CONC. SLAB - TO BELOW REINF. STE         S18.33       REHAB. OF STRUC. CONC. SLAB - TO BELOW REINF. STE         S18.34       REHAB. OF STRUC. CONC. SLAB - TO BELOW REINF. STE         S18.35       Rehab. of Struc. Conc. SLAB - TO BELOW REINF. STE         S18.32       Rehab. of Struc. Conc. SLAB - TO BELOW REINF. STE         S18.32       Rehab. of Struc. Conc. SLAB - TO BELOW REINF. STE         S28.430       Emporaty Concreate Barrier         S28.430       Emporaty Concreate Barrier         S28.431       Brakeway Colle Existing Guard Rail Post         606.245       Ferminal End- Single Rail         606.355       Guardrail Type 3-Single Rail         606.351       Widen Shoulder for Breakaway Coble Terminal         627.621			
506.172       Field Painting Existing Structural Steel       0         507.072       Aluminum Bridge Railing, 2-Bar       0         508.13       Membrane Waterproofing       0         511.21       PROTECTIVE COATING FOR CONCRETE SUBFACES       0         518.21       PROTECTIVE COATING FOR CONCRETE SUBSTRUCTURE       518.21         518.21       PREHABLOF STRUC, CONC, SLAB - TO REINFORCING STEEL       518.31         518.31       REHAB, OF STRUC, CONC, SLAB - TO BELOW REINF, STEEL       518.32         518.32       Rehab, of Struc, Conc, Slab - Full Depth       524.32         528.32       Rehab, of Struc, Conc, Slab - Full Depth       524.32         528.30       Emporary Concrete Barrier       0         528.32       Fortable Crosh Barrels       0         606.324       Guardrail-Remove, Madify, and Reset Type 3b       12         606.334       Guardrail-Remove, Madify, and Reset Type 3b       12         606.344       Guardrail-Remove, Madify, and Reset Type 3b       12         606.355       Guardrail Type 3-Single Roil       12         606.354       Guardrail Remove, Madify, and Reset Type 3b       12         606.354       Guardrail Type 3-Single Roil       14         606.354       Guardrail Type 3-Single Roil       14	506.172       Field Painting Existing Structural Steel         507.072       Aluminum Bridge Railing, 2-Bar         508.13       Membrane Waterproofing         518.21       PROTECTIVE COATING FOR CONCRETE SUBSTRUCTUR         518.21       REHABILITATION OF STRUCTURAL CONCRETE SUBSTRUCTUR         518.21       REHAB OF STRUC, CONC. SLAB - TO REINFORCING STEE         518.31       REHAB OF STRUC, CONC. SLAB - TO BELOW REINF. STE         518.32       Rehab of Struc, Conc. SLAB - TO BELOW REINF. STE         518.32       Rehab of Struc, Conc. SLAB - TO BELOW REINF. STE         518.32       Rehab of Struc, Conc. SLAB - TO BELOW REINF. STE         518.32       Rehab of Struc, Conc. SLAB - TO BELOW REINF. STE         518.32       Rehab of Struc, Conc. SLAB - TO BELOW REINF. STE         518.32       Rehab of Struc, Conc. SLAB - TO BELOW REINF. STE         518.32       Rehab of Struc, Conc. SLAB - TO BELOW REINF. STE         518.32       Rehab of Struc, Conc. SLAB - TO BELOW REINF. STE         518.33       Rehab of Struc, Conc. SLAB - TO BELOW REINF. STE         518.32       Rehab of Struc, Conc. SLAB - TO BELOW REINF. STE         527.32       Portable Crash Barrels         606.35       Guardrail Fade Single Rail - Galvonizaci Steel         606.455       Immarking Line         606.55       Guardrai			
506.172       Field Painting Existing Structural Steel       0         507.072       Aluminum Bridge Railing, 2-Bar       0         508.13       Membrane Waterproofing       0         511.21       PROTECTIVE COATING FOR CONCRETE SUBFACES       0         518.21       PROTECTIVE COATING FOR CONCRETE SUBSTRUCTURE       518.21         518.21       PREHABLOF STRUC, CONC, SLAB - TO REINFORCING STEEL       518.31         518.31       REHAB, OF STRUC, CONC, SLAB - TO BELOW REINF, STEEL       518.32         518.32       Rehab, of Struc, Conc, Slab - Full Depth       524.32         528.32       Rehab, of Struc, Conc, Slab - Full Depth       524.32         528.30       Emporary Concrete Barrier       0         528.32       Fortable Crosh Barrels       0         606.324       Guardrail-Remove, Madify, and Reset Type 3b       12         606.334       Guardrail-Remove, Madify, and Reset Type 3b       12         606.344       Guardrail-Remove, Madify, and Reset Type 3b       12         606.355       Guardrail Type 3-Single Roil       12         606.354       Guardrail Remove, Madify, and Reset Type 3b       12         606.354       Guardrail Type 3-Single Roil       14         606.354       Guardrail Type 3-Single Roil       14	506.172       Field Painting Existing Structural Steel         507.072       Aluminum Bridge Railing, 2-Bar         508.13       Membrane Waterproofing         518.21       PROTECTIVE COATING FOR CONCRETE SUBSTRUCTUR         518.21       REHABILITATION OF STRUCTURAL CONCRETE SUBSTRUCTUR         518.21       REHAB OF STRUC, CONC. SLAB - TO REINFORCING STEE         518.31       REHAB OF STRUC, CONC. SLAB - TO BELOW REINF. STE         518.32       Rehab of Struc, Conc. SLAB - TO BELOW REINF. STE         518.32       Rehab of Struc, Conc. SLAB - TO BELOW REINF. STE         518.32       Rehab of Struc, Conc. SLAB - TO BELOW REINF. STE         518.32       Rehab of Struc, Conc. SLAB - TO BELOW REINF. STE         518.32       Rehab of Struc, Conc. SLAB - TO BELOW REINF. STE         518.32       Rehab of Struc, Conc. SLAB - TO BELOW REINF. STE         518.32       Rehab of Struc, Conc. SLAB - TO BELOW REINF. STE         518.32       Rehab of Struc, Conc. SLAB - TO BELOW REINF. STE         518.33       Rehab of Struc, Conc. SLAB - TO BELOW REINF. STE         518.32       Rehab of Struc, Conc. SLAB - TO BELOW REINF. STE         527.32       Portable Crash Barrels         606.35       Guardrail Fade Single Rail - Galvonizaci Steel         606.455       Immarking Line         606.55       Guardrai	0		
507.092       Aluminum Bridge Railing, 2-Bar       0         508.13       Membrane Waterproofing       0         514.04       Curing Bax for Concrete Cylinders       0         518.21       PROTECTIVE COATING FOR CONCRETE SUBSTRUCTURE       0         518.21       REHABILITATION OF STRUCTURAL CONCRETE SUBSTRUCTURE       0         518.31       REHAB. OF STRUC, CONC, SLAB - TO REINFORCING STEEL       0         518.32       Rehab, of Struc, Conc, SLAB - TO BELOW REINF, STEEL       0         518.32       Rehab, of Struc, Conc, SLAB - TO BELOW REINF, STEEL       0         518.31       REHAB. OF STRUC, CONC, SLAB - TO BELOW REINF, STEEL       0         518.32       Rehab, of Struc, Conc, SLAB - TO BELOW REINF, STEEL       0         518.32       Bridge Jaint Medification 1:25/Route BB       0         524.301       Emporary Concrete Barrier       0         528.302       Emporary Concrete Barrier       0         528.303       Emporary Concrete Barrier       0         528.301       Emporary Concrete Barrier       0         528.302       Ferminal End-Single Rail - Golwanized Steel       0         606.324       Guardrail-Remove, Medify, and Reset Type 3b       0         606.327       Breakawy Cyble Terminal       0	507.092       Aluminum Bridge Railing, 2-Bar         508.13       Membrane Waterproofing         514.06       Curing Box for Concrete Syntalers         515.21       PROTECTIVE COATING FOR CONCRETE SUBTRUCTURE         518.21       REHABILITATION OF STRUCTURAL CONCRETE SUBSTRUCTURE         518.31       REHAB. OF STRUC. CONC. SLAB - TO BEINFORCING STEE         518.31       REHAB. OF STRUC. CONC. SLAB - TO BEINFORCING STEE         518.32       Rehab. of Struc. Conc. SLAB - TO BEINFORCING STEE         518.32       Rehab. of Struc. Conc. SLAB - TO BEINFORCING STEE         518.32       Rehab. of Struc. Conc. SLAB - TO BEINFORCING STEE         528.30       Temporery Concrete Barrier         527.32       Partable Crash Barrels         606.344       Guardrait Fermos, Medify, and Reset Type 3b         606.345       Replace Unusoble Existing Guard Raill Post         606.55       Guardrait Type 3-Single Rail         606.54       Breakaway Coble Terminal         606.751       Widen Shoulder Far Breakaway Coble Terminal         627.621       Effect Solid Yellow Revenent Marking Line         627.621       Effect Office Type A         627.631       Glich Solid Yellow Revenent Marking Line         627.631       Glich Solid Yellow Revenent Marking Line         627.621			
507.092       Aluminum Bridge Railing, 2-Bar       0         508.13       Membrane Waterproofing       0         514.04       Curing Bax for Concrete Cylinders       0         518.21       PROTECTIVE COATING FOR CONCRETE SUBSTRUCTURE       0         518.21       REHABILITATION OF STRUCTURAL CONCRETE SUBSTRUCTURE       0         518.31       REHAB. OF STRUC, CONC, SLAB - TO REINFORCING STEEL       0         518.32       Rehab, of Struc, Conc, SLAB - TO BELOW REINF, STEEL       0         518.32       Rehab, of Struc, Conc, SLAB - TO BELOW REINF, STEEL       0         518.31       REHAB. OF STRUC, CONC, SLAB - TO BELOW REINF, STEEL       0         518.32       Rehab, of Struc, Conc, SLAB - TO BELOW REINF, STEEL       0         518.32       Bridge Jaint Medification 1:25/Route BB       0         524.301       Emporary Concrete Barrier       0         528.302       Emporary Concrete Barrier       0         528.303       Emporary Concrete Barrier       0         528.301       Emporary Concrete Barrier       0         528.302       Ferminal End-Single Rail - Golwanized Steel       0         606.324       Guardrail-Remove, Medify, and Reset Type 3b       0         606.327       Breakawy Cyble Terminal       0	507.092       Aluminum Bridge Railing, 2-Bar         508.13       Membrane Waterproofing         514.06       Curing Box for Concrete Syntalers         515.21       PROTECTIVE COATING FOR CONCRETE SUBTRUCTURE         518.21       REHABILITATION OF STRUCTURAL CONCRETE SUBSTRUCTURE         518.31       REHAB. OF STRUC. CONC. SLAB - TO BEINFORCING STEE         518.31       REHAB. OF STRUC. CONC. SLAB - TO BEINFORCING STEE         518.32       Rehab. of Struc. Conc. SLAB - TO BEINFORCING STEE         518.32       Rehab. of Struc. Conc. SLAB - TO BEINFORCING STEE         518.32       Rehab. of Struc. Conc. SLAB - TO BEINFORCING STEE         528.30       Temporery Concrete Barrier         527.32       Partable Crash Barrels         606.344       Guardrait Fermos, Medify, and Reset Type 3b         606.345       Replace Unusoble Existing Guard Raill Post         606.55       Guardrait Type 3-Single Rail         606.54       Breakaway Coble Terminal         606.751       Widen Shoulder Far Breakaway Coble Terminal         627.621       Effect Solid Yellow Revenent Marking Line         627.621       Effect Office Type A         627.631       Glich Solid Yellow Revenent Marking Line         627.631       Glich Solid Yellow Revenent Marking Line         627.621	- (		
508.13       Membrane Waterproofing       0         514.06       Curing Bax for Concrete Cylinders       0         515.21       PROTECTIVE COATING FOR CONCRETE SUBTRUCTURE       0         518.21       REHABILITATION OF STRUCTURAL CONCRETE SUBSTRUCTURE       0         518.30       REHAB. OF STRUC, CONC, SLAB - TO REINFORCING STEEL       5         518.31       REHAB. OF STRUC, CONC, SLAB - TO BELOW REINF, STEEL       5         518.32       Rehab. of Struc, Conc, Slab - Full Depth       5         528.30       Temporary Concrete Barrier       0         527.32       Portable Crash Barrier       0         606.265       Temporary Concrete Barrier       0         606.364       Guardrail-Remove, Medify, and Reset Type 3b       1         606.364       Guardrail Type 3-Single Rail - Golvenized Steel       1         606.364       Guardrail Type 3-Single Rail       1         606.371       Men Shoulder For Breekawey Coble Terminal       1         606.425       Ereakawy Coble Terminal       1         606.721       Ginch Broken White Pavement Marking Line       1         627.621       Ginch Broken White Pavement Marking Line       1         627.621       Ginch Broken White Pavement Marking Line      1         627.621 <td>508.13       Membrane Waterproofing         514.06       Curing Box for Concrete Cylinders         515.21       PROTECTIVE COATING FOR CONCRETE SUBSTRUCTURE         518.21       REHABILITATION OF STRUCTURAL CONCRETE SUBSTRUCTURE         518.31       REHAB OF STRUC. CONC. SLAB - TO REINFORCING STEE         518.32       Rehab. OF STRUC. CONC. SLAB - TO REINFORCING STEE         518.31       REHAB OF STRUC. CONC. SLAB - TO REINFORCING STEE         518.32       Rehab. of Struc. Conc. SLAB - TO HELOW REINF. STE         528.32       Rehab. of Struc. Conc. SLAB - TO HELOW REINF. STE         528.32       Rehab. of Struc. Conc. SLAB - To HELOW REINF. STE         528.32       Rehab. of Struc. Conc. SLAB - To HELOW REINF. STE         528.32       Rehab. of Struc. Conc. SLAB - To HELOW REINF. STE         528.32       Rehab. of Struc. Conc. SLAB - To HELOW REINF. STE         528.32       Rehab. of Struc. Conc. SLAB - To HELOW REINF. STE         528.32       Replace Unusoble Existing Calor Schematical Steel         606.46       Guardrail Type 3 - Single Roll         606.55       Guardrail Type 3 - Single Roll         606.51       Widen Schulder for Brookaway Coble Terminal         606.72       Breakaway Coble Terminal         607.621       Ginch Solid White Pavement Marking Line         627.631       <td< td=""><td></td></td<></td>	508.13       Membrane Waterproofing         514.06       Curing Box for Concrete Cylinders         515.21       PROTECTIVE COATING FOR CONCRETE SUBSTRUCTURE         518.21       REHABILITATION OF STRUCTURAL CONCRETE SUBSTRUCTURE         518.31       REHAB OF STRUC. CONC. SLAB - TO REINFORCING STEE         518.32       Rehab. OF STRUC. CONC. SLAB - TO REINFORCING STEE         518.31       REHAB OF STRUC. CONC. SLAB - TO REINFORCING STEE         518.32       Rehab. of Struc. Conc. SLAB - TO HELOW REINF. STE         528.32       Rehab. of Struc. Conc. SLAB - TO HELOW REINF. STE         528.32       Rehab. of Struc. Conc. SLAB - To HELOW REINF. STE         528.32       Rehab. of Struc. Conc. SLAB - To HELOW REINF. STE         528.32       Rehab. of Struc. Conc. SLAB - To HELOW REINF. STE         528.32       Rehab. of Struc. Conc. SLAB - To HELOW REINF. STE         528.32       Rehab. of Struc. Conc. SLAB - To HELOW REINF. STE         528.32       Replace Unusoble Existing Calor Schematical Steel         606.46       Guardrail Type 3 - Single Roll         606.55       Guardrail Type 3 - Single Roll         606.51       Widen Schulder for Brookaway Coble Terminal         606.72       Breakaway Coble Terminal         607.621       Ginch Solid White Pavement Marking Line         627.631 <td< td=""><td></td></td<>			
5/14.06       Curring Bax for Concrete Cylinders       0         515.21       PROTECTIVE COATING FOR CONCRETE SUBFACES       0         518.21       REHABILITATION OF STRUCTURAL CONCRETE SUBSTRUCTURE       0         518.31       REHAB. OF STRUC, CONC, SLAB - TO REINFORCING STEEL       0         518.31       REHAB. OF STRUC, CONC, SLAB - TO REINFORCING STEEL       0         518.32       Rehab, of Struc, Conc, Slab - Full Depth       5         528.32       Rehab, of Struc, Conc, Slab - Full Depth       5         528.30       Temporary Concrete Barrier       0         528.32       Pertable Crash Barrels       0         606.324       Guardrail-Remove, Mudisy, and Reset Type 3/s       10         606.334       Guardrail Type 3 ~ Single Roil       11         606.355       Guardrail Type 3 ~ Single Roil       11         606.351       Miden Shoulder For Breakaway Coble Terminal       16         627.621       Eich Solid Yellow Revenent Marking Line       11         627.621       Grach Solid Yellow Revenent Marking Line       12         627.62	5/406       Curring Box for Concrete Cytholers         515.21       PROTECTIVE COATING FOR CONCRETE SURFACES         518.21       REHABILITATION OF STRUCTURAL CONCRETE SUBSTRUCTUR         518.31       REHAB. OF STRUC. CONC. SLAB - TO REINFORCING STEE         518.31       REHAB. OF STRUC. CONC. SLAB - TO REINFORCING STEE         518.31       REHAB. OF STRUC. CONC. SLAB - TO BELOW REINF. STE         518.32       Rehab. of Struc. Canc. Stab - Full Depth         578.32       Rehab. of Struc. Canc. Stab - Full Depth         578.32       Rehab. of Struc. Canc. Stab - Full Depth         578.32       Rehab. of Struc. Canc. Stab - Full Depth         578.32       Portoble Crask Barriels         606.301       Emporary Concrede Barrier         606.302       Reglace Unusoble Existing Guard Roll Post         606.303       Replace Unusoble Existing Guard Roll Post         606.304       Guardrail Type 3-Single Roll         606.305       Guardrail Type 3-Single Roll         606.306       Replace Unusoble Existing Guard Roll Post         606.307       Breakeway Coble Terminal         606.308       Guardrail Type 3-Single Roll         606.309       Breakeway Coble Terminal         606.301       Ginch Solid Vellow Parement Marking Line         627.611       Ginch Solid V			
515.21       PROTECTIVE COATING FOR CONCRETE SURFACES       0         518.21       REHABILITATION OF STRUCTURAL CONCRETE SUBSTRUCTURE         518.31       REHAB. OF STRUC. CONC. SLAB - TO REINFORCING STEEL         518.31       REHAB. OF STRUC. CONC. SLAB - TO REINFORCING STEEL         518.32       Rehab. of STruc. Conc. SLAB - TO REINFORCING STEEL         518.32       Rehab. of STRUC. CONC. SLAB - TO REINFORCING STEEL         518.32       Rehab. of STruc. Conc. SLAB - TO REINFORCING STEEL         518.32       Rehab. of STruc. Conc. SLAB - Full / Dept/fb         522.32       Rehab. of Struc. Conc. SLAB - Full / Dept/fb         522.32       Rentoble Crash Barrels         606.245       Remporary Concrete Barrior         606.346       Guardrail-Remove, MediSy, and Reset Type 3.b         606.347       Replace Unusable Existing Guard Rail Post         606.55       Guardrail Type 3-Single Rail         606.51       Widen Shoulder Far Breekaway Coble Terminal         627.621       Ereakaway Cable Terminal         627.621       Erenkaway Cable Terminal         627.621       Erenken White Pavement Marking Line         627.621       Erence Marking Line         627.621       Erence Marking Line         627.621       Erence Marking Line         627.621       <	515.21       PROTECTIVE COATING FOR CONCRETE SURFACES         518.21       REHABILITATION OF STRUCTURAL CONCRETE SUBSTRUCTUR         518.31       REHAB. OF STRUC. CONC. SLAB - TO REINFORCING STEE         518.31       REHAB. OF STRUC. CONC. SLAB - TO BELOW REINF. STE         518.32       Rehab. of Struc. CONC. SLAB - TO Depth         520.2401       Bridge Jaint Modification I-95/Route 88         520.2401       Bridge Jaint Modification I-95/Route 88         520.321       Emporary Concrete Barrier         527.322       Portable Crossh Barriels         606.265       Terminal End-Single Rail - Galvanized Steel         606.367       Replace Unusable Existing Guard Rail Post         606.367       Widen Shaulder Far Brackaway Coble Terminal         606.751       Widen Shaulder Far Brackaway Coble Terminal         606.751       Widen Shaulder Far Brackaway Coble Terminal         627.671       Einch Solid While Pavement Marking Line         627.671       Einch Solid Vellav Pavement Marking Line         627.671       Einch Solid Yellav Barment Marking Line         627.671       Empo G'Plastic Pave Marking Line <td></td>			
518.21       REHABILITATION OF STRUCTURAL CONCRETE SUBSTRUCTURE         518.30       REHAB. OF STRUC. CONC. SLAB - TO REINFORCING STEEL         518.31       REHAB. OF STRUC. CONC. SLAB - TO BELOW REINF. STEEL         578.32       Rehab. of Struc. Conc. SLAB - TO BELOW REINF. STEEL         578.32       Rehab. of Struc. Conc. SLAB - Full Depth         578.24(f)       Bridge Jaint Modification I = 257 Route 88         526.301       Emporary Concrete Barrier         606.265       Terminal End-Single Roll-Calvanized Steel         606.364       Guardrail-Remove, Medify, and Reset Type 3b         606.364       Guardrail Type 3-Single Roll         606.365       Guardrail Type 3-Single Roll         606.55       Guardrail Type 3-Single Roll         606.56       Guardrail Type 3-Single Roll         606.57       Widen Shoulder För Breakawey Coble Terminal         620.67       Breakawy Cable Terminal         620.61       Ginch Broken White Pavement Marking Line         627.62       Ginch Broken White Pavement Marking Line         627.63       GInch Solid Yellen Barriels         627.63       GInch Solid Yellen Barriels         627.63       GInch Solid Yellen Barriels         627.62       Removing Revement Marking Line         627.63       GInch Solid Yellen Barriel	518.21       REHABILITATION OF STRUCTURAL CONCRETE SUBSTRUCTURE         518.30       REHAB. OF STRUC. CONC. SLAB - TO REINFORCING STEE         518.31       REHAB. OF STRUC. CONC. SLAB - TO BELOW REINF. STE         518.32       Rehab. of Struc. CONC. SLAB - TO BELOW REINF. STE         528.32       Rehab. of Struc. Conc. Slab - Full Depth         528.430       Bridge Jain Madification J-95/Route 88         528.30       Temporary Concrete Barrier         527.32       Portable Crash Barrels         606.265       Temporary Concrete Barrier         527.32       Portable Crash Barrels         606.364       Guardrail-Remove, Medify, and Reset Type 3b         606.367       Replace Unusable Existing Guard Rail Post         606.55       Guardrail Type 3~Single Rail         606.54       Pareakaway Cable Terminal         627.67       Breakaway Cable Terminal         627.67       Breakaway Cable Terminal         627.67       Broken White Pavement Marking Line         627.62       Grady Breken White Pavement Marking Line         627.62       Removing Fourment Marking Line         627.62       Removing Favement Marking Line         627.62       Removing Favement Marking Line         627.62       Removing Favement Marking Line         627.62<			
518.30       REHAB. OF STRUC. CONC. SLAB - TO REINFORCING STEEL         518.31       REHAB. OF STRUC. CONC. SLAB - TO BELOW REINF. STEEL         518.32       Rehab. of Struc. Canc. Slab - Full Depth         528.28       Rehab. of Struc. Canc. Slab - Full Depth         528.30       Remoorary Concrete Barrier         528.30       Temporary Concrete Barrier         606.265       Temporary Concrete Barrier         606.364       Guardrait-Remove, IMadify, and Reset Type 3b         606.367       Replace Unusable Existing Guard Rail Post         606.55       Guardrail Type 3-Single Rail         606.54       Guardrail Type 3-Single Rail         606.55       Guardrail Wise Shoulder For Breakaway Coble Terminal         606.751       Widen Shoulder For Breakaway Coble Terminal         627.621       Ginch Solid While Pavement Marking Line         627.621       Ginch Solid Yellaw Bwement Marking Line         627.631       Gind Solid Yellaw Bwement Marking Line         627.631       Gind Solid Yellaw Bwement Marking Line         627.631       Frenzing Facilities Bituminous Mixes         637.23       Fashing Facilities Bituminous Mixes         637.23       Fashing Arrow Board         637.23       Flashing Arrow Board         652.35       Construction	518.30       REHAB. OF STRUC. CONC. SLAB - TO REINFORCING STEE         518.31       REHAB. OF STRUC. CONC. SLAB - TO BELOW REINF. STE         518.32       Rehab. of Struc. Conc. Slab - Full Depth         520.2401       Bridge Joint Modification, I=95/Route 88         526.301       Emporary Concrete Barrier         527.32       Portable Crash Barrels         606.265       Terminal End-Single Rail - Galvanized Steel         606.364       Guardrail-Remove, Modify, and Reset Type 3b         606.365       Guardrail Type 3 ~ Single Rail         606.367       Replace Mousable Existing Guard Rail Post         606.367       Breakaway Coble Terminal         606.378       Widen Shaulder For Breokawey Coble Terminal         606.379       Breakaway Coble Terminal         606.371       Ginch Solid White Pavement Marking Line         627.621       Ginch Solid Yellow Pavement Marking Line         627.621       Ginch Solid Yellow Revenent Marking Line         627.621       Frequency Galve Barrieus         627.621       Flashing Arrow Boord         637.23       Testing Facil/Mas Conc			
518.31       REHAB. OF STRUC. CONC. SLAB - TO BELOW REINF. STEEL         5/8.32       Rehab. of Struc. Canc. Slab - Full Depth       5         5/8.32       Rehab. of Struc. Canc. Slab - Full Depth       5         5/8.32       Rehab. of Struc. Canc. Slab - Full Depth       5         5/8.32       Rehab. of Struc. Canc. Slab - Full Depth       5         5/8.30       Temporary Concrete Barrier       0         5/8.32       Portable Crash Barrier       0         5/8.332       Rentable Crash Barrier       0         5/8.332       Rentable Crash Barrier       0         5/8.331       Replace Unusable Existing Guard Reil Post       15         606.367       Replace Unusable Existing Guard Reil Post       16         606.55       Guardrail Type 3 ~ Single Rail       17         606.57       Widen Shoulder For Breakaway Cable Terminal       16         607.61       Ginch Solid While Pavement Marking Line       17         627.621       Ginch Solid Yellow Revement Marking Line       17         627.637       Removing Revement Markings       17<	518.31       REHAB. OF STRUC. CONC. SLAB - TO BELOW REINF. STE         518.32       Rehab. of Struc, Canc, Slab - Full Depth         529.2401       Bridge Jaint Modification I-95/Route 88         528.321       Temporary Concrede Barrier         527.32       Portable Crash Barrier         606.324       Guardrait End-Single Rail - Galvanizad Steel         606.324       Guardrait End-Single Rail - Galvanizad Steel         606.327       Replace Unusable Existing Guard Rail Post         606.327       Replace Unusable Existing Guard Rail Post         606.327       Widen Shoulder for Breakaway Coble Terminal         606.327       Breakaway Cable Terminal         606.321       Widen Shoulder for Breakaway Cable Terminal         602.721       GInch Solid Yellaw Revenent Marking Linc         627.621       GInch Solid Yellaw Revenent Marking Linc         627.621       GInch Solid Yellaw Revenent Marking Linc         627.627       Removing Pavement Marking Linc         627.62       Termin 6 Froc Structi			
5/8.32       Rehab, of Strue, Cane, Stab - Full Depth         5/8.92/1       Bridge Joint Modification I-95/Route 88         5/8.32/1       Emporary Concrete Barrier       0.         5/8.32/1       Emminal End-Single Rail - Calvanized Steel       1.         606.35       Guardrail-Remove, Medify, and Reset Type 3b       1.         606.55       Guardrail Type 3-Single Rail       1.         606.51       Widen Shaulder For Brakaway Cable Terminal       1.         620.67       Breakaway Cable Terminal       1.         621.61       Alleh Solid Yellen Barrier       1.         622.63       GInch Solid Yellen Barrier       1.         627.62       Removing Pavement Marking Line       1.         627.62       Removing Favement Markings       1.         627.61       Temp G Plastic Pav	518.32       Rehab. of Strue, Cane, Slab - Full Depth         5202441       Bridge Jaint Madification, I-95/Route 88         520.30       Temporary Concrete Barrier         527.32       Portable Crash Barrels         606.265       Temporary Concrete Barrier         527.32       Portable Crash Barrels         606.265       Temporary Concrete Barrier         527.32       Portable Crash Barrels         606.265       Temporary Concrete Barrier         506.265       Guardrait-Remove, Medify, and Reset Type 3b         606.367       Warderdrait-Remove, Medify, and Reset Type 3b         606.367       Wile Shoulder Far Breckaway Coble Terminal         606.751       Wile Shoulder Far Breckaway Coble Terminal         627.621       Effect Solid While Pavement Marking Line         627.621       Effect Broken While Pavement Marking Line         627.621       Effect Office Type A         637.22       Removing Pavement Markings         627.631       Feeld Office Type A         637.22       Esting Facilities Bituminous Mixes         627.641       Tempo G'Plastic Pave Merking Line, Yellow or White         637.23       Festing Facilities Bituminous Mixes         637.23       Festing Facilities Bituminous Mixes         637.23       Flas	a a la		
5202401       Bridge Jaint Madification, I=95/Route 88         586.301       Emporary Concrete Barrier       0.         527.32       Portoble Crash Barrier       0.         527.32       Portoble Crash Barrier       0.         506.265       Terminal End-Single Rail-Calvanized Steel       0.         606.364       Guardrail-Removes, Medify, and Reset Type 3.5       15         606.367       Replace Unusoble Existing Guard Rail Post       16         606.367       Widen Shaulder For Breakaway Coble Terminal       17         606.79       Breakaway Coble Terminal       17         606.71       6 Jinch Schild Yellew Barenent Marking Line       17         627.621       6 Jinch Broken White Pavement Marking Line       16         627.631       6 Jinch Schild Yellew Barenent Marking Line       16         627.631       6 Jinch Schild Yellew Barenent Marking Line       16         627.631       6 Jinch Schild Yellew Barenent Marking Line       16         627.637       Removing Ravement Markings       17         627.637       Removing Ravement Markings       17         627.637       Removing Ravement Markings       16         627.637       Removing Rave Marking Line, Yellow or While 1       16         637.63       Termin	520240       Bridge Joint Madification I-95/Route 88         526.30       Temporary Concrete Barrier         527.32       Portable Crash Barrels         606.265       Teminal End-Single Rail - Galvanized Steel         606.367       Guardrail-Remove, Medify, and Reset Type 3b         606.367       Replace Unusable Existing Guard Rail Post         606.55       Guardrail Type 3 ~ Single Rail         606.79       Widen Shoulder For Breakaway Coble Terminal         602.61       & Widen Shoulder For Breakaway Coble Terminal         602.621       & Binch Solid Vellan Ravement Marking Line         627.621       & Ginch Broken White Pavement Marking Line         627.621       & Ginch Solid Yellan Ravement Marking Line         627.627       Removing Tavement Marking Line         627.637       Kernoving Tavement Marking Line, Yellow or White         637.421       Each Solid Yellan Ravement Marking Line         627.637       Removing Tavement Marking Line, Yellow or White         637.23       Testing Facilities Bituminous Mixes         627.631       Fileshing Arrow Beard         637.23       Fashing Arrow Beard         652.35       Construction Signs         652.35       Construction Signs         652.35       Construction Signs			
526.30       Temporary Concrete Barrier       0.         527.32       Portable Crash Barrels          606.265       Temninal End-Single Rail - Galvanized Steel          606.367       Guardrail-Remove, Medisy, and Reset Type 3.b       14         606.367       Replace Unusable Existing Guard Rail Post          606.55       Guardrail Type 3 ~ Single Rail          606.751       Widen Shoulder for Breakaway Coble Terminal          607.611       Gine Solid While Pavement Marking Line          627.621       Ginch Solid Yellow Revenent Marking Line          627.631       Franze Rave Marking Line, Yellow or While I          637.73       Testing Facilities Bituminous Mixes       0         637.23       Testing Facilities Bituminous Mixes       0         637.23       Testing Facilities Concrete       0 </td <td>526.30       Temporary Concrete Barrier         527.32       Portable Crash Barrels         606.265       Temminal End-Single Rail ~ Galvanized Steel         606.364       Guardrail-Remove, Medify, and Reset Type 3b         606.367       Replace Unusable Existing Guard Rail Post         606.55       Guardrail Type 3 ~ Single Rail         606.55       Guardrail Type 3 ~ Single Rail         606.55       Guardrail Type 3 ~ Single Rail         606.751       Widen Shoulder For Breakaway Coble Terminal         606.752       Breakaway Cable Terminal         606.753       Widen Shoulder For Breakaway Coble Terminal         606.754       Ginch Shoulder For Breakaway Coble Terminal         620.677       Breakaway Cable Terminal         621.611       GInch Solid Yellow Pavement Marking Line         627.621       GInch Solid Yellow Pavement Marking Line         627.627       Removing Revenent Markings         627.627       Removing Revenent Markings         627.627       Removing Revenent Marking Line         627.627       Temps &amp; Type A         637.28       Field Office Type A         637.29       Fashing Parcu Beard         637.20       Flashing Parcu Beard         637.23       Trum         652.35<td></td></td>	526.30       Temporary Concrete Barrier         527.32       Portable Crash Barrels         606.265       Temminal End-Single Rail ~ Galvanized Steel         606.364       Guardrail-Remove, Medify, and Reset Type 3b         606.367       Replace Unusable Existing Guard Rail Post         606.55       Guardrail Type 3 ~ Single Rail         606.55       Guardrail Type 3 ~ Single Rail         606.55       Guardrail Type 3 ~ Single Rail         606.751       Widen Shoulder For Breakaway Coble Terminal         606.752       Breakaway Cable Terminal         606.753       Widen Shoulder For Breakaway Coble Terminal         606.754       Ginch Shoulder For Breakaway Coble Terminal         620.677       Breakaway Cable Terminal         621.611       GInch Solid Yellow Pavement Marking Line         627.621       GInch Solid Yellow Pavement Marking Line         627.627       Removing Revenent Markings         627.627       Removing Revenent Markings         627.627       Removing Revenent Marking Line         627.627       Temps & Type A         637.28       Field Office Type A         637.29       Fashing Parcu Beard         637.20       Flashing Parcu Beard         637.23       Trum         652.35 <td></td>			
527.32       Portable Crash Barrels	527.32 Portable Crash Barrels 606.265 Terminal End-Single Rail - Galvanized Steel 606.367 Generall-Remove, Medify, and Reset Type 3b 606.367 Replace Unusable Existing Guard Rail Post 606.55 Guardrail Type 3 ~ Single Rail 606.751 Widen Shoulder For Breakaway Coble Terminal 606.751 Widen Shoulder For Breakaway Coble Terminal 607.611 & Ench Solid While Pavement Marking Line 627.621 & Ench Broken White Pavement Marking Line 627.621 & Ench Broken White Pavement Marking Line 627.631 & Ench Solid Yellow Bavement Marking Line 627.631 & Ench Solid Yellow Bavement Marking Line 627.67 Removing Pavement Marking Line 627.67 Removing Pavement Marking Line 627.67 Removing Pavement Marking Line 627.67 Removing Pavement Marking Line, Yellow or Whi 637.18 Field Office Type A 637.23 Testing Facilities Bituminous Mixes 637.23 Testing Facilities Bituminous Mixes 652.35 Construction Signs 652.35 Construction Signs 652.38 Flogger 657.10 Moblization FENNO. DESCRIPTION			
606.265       Terminal End-Single Roil ~ Galvanized Steel         606.364       Guardrail - Remove, Medify, and Reset Type 3.b       15         606.367       Replace Unusable Existing Guard Rail Post       16         606.555       Guardrail Type 3~Single Roil       17         606.557       Widen Shoulder For Breakaway Cable Terminal       16         606.751       Widen Shoulder For Breakaway Cable Terminal       16         602.751       Greakaway Cable Terminal       16         627.671       Ginch Solid While Pavement Marking Line       17         627.621       Ginch Broken White Pavement Marking Line       17         627.631       Ginch Solid Yellow Revenent Marking Line       16         627.631       Ginch Solid Yellow Revenent Marking Line       16         627.631       Frenoutry Pavement Marking Line, Yellow or While 1       16         627.677       Temp. 6''Plestic Pave Marking Line, Yellow or While 1       16         637.23       Fasting Facilities Bituminous Mixes       10         637.23       Testring Facilities Concrete       10         637.23       Fasting Arrive Beard       10         652.33       Drum       17         652.35       Construction Signs       33         52.35       Construction S	606.265 Terminal End-Single Rail - Galvanized Steel 606.364 Guardrail-Remove, Medify, and Reset Type 3b 606.367 Replace Unusable Existing Guard Rail Post 606.55 Guardrail Type 3 ~ Single Roil 606.751 Widen Shoulder For Breakaway Coble Terminal 606.751 Widen Shoulder For Breakaway Coble Terminal 606.752 Breakaway Coble Terminal 627.611 & Ench Solid While Pavement Marking Line 627.621 & Ench Broken White Pavement Marking Line 627.621 & Ench Solid Yellow Bavement Marking Line 627.631 & Ench Solid Yellow Bavement Marking Line 627.631 & Ench Solid Yellow Bavement Marking Line 627.67 Removing Pavement Marking Line, Yellow or Whi 637.18 Field Office Type A 637.23 Testing Facilities Bituminous Mixes 637.23 Testing Facilities Bituminous Mixes 652.35 Construction Signs 652.35 Construction Signs 652.38 Flogger 657.10 Moblization ESTIMATE OF LUMP SUM QUANTI, TEM NO. DESCRIPTION			
606.344       Guardrail-Removes, Medify, and Reset Type 3/5       12         606.367       Replace Unusable Existing Guard Rail Post       12         606.55       Guardrail Type 3 ~ Single Roil       12         606.751       Widen Shoulder For Breakaway Coble Terminal       12         606.751       Guardrail & Shoulder For Breakaway Coble Terminal       12         607.611       & Einch Solid Yellan Bavement Marking Line       12         627.621       Einch Broken White Pavement Marking Line       12         627.631       Ginch Solid Yellan Bavement Marking Line       14         627.631       Field Office Type A       0.         627.671       Tempor G''Plastic Pave Marking Line, Yellow or White 1       14         637.23       Festing Facilities Bituminous Mixes       0.         637.23       Testing Facilities Concrete       0.         642.30       Flashing Arrow Beard       0.         652.31       Type I Barricode       13         652.35       Construction Signs       3         623.35       Cone       14 <td>606.364 Guardroil-Remove, Medify, and Reset Type 3b 606.367 Replace Unusable Existing Guard Rail Post 606.55 Guardroil Type 3 ~ Single Rail 606.751 Widen Shoulder For Breakaway Cable Terminar 606.77 Breakaway Cable Terminal 606.79 Breakaway Cable Terminal 627.611 6 Inch Solid While Pavement Marking Line 627.621 6 Inch Broken While Pavement Marking Line 627.631 6 Inch Solid Yellow Pavement Marking Line 627.631 6 Inch Solid Yellow Pavement Marking Line 627.631 6 Inch Solid Yellow Pavement Marking S 627.67 Removing Pavement Markings 627.691 Temp. 6 "Plastic Pave Marking Line, Yellow or Whi 639.18 Field Office Type A 639.22 Testing Facilities Bituminous Mixes 639.23 Testing Facilities Concrete 652.30 Flashing Arrow Beard 652.31 Type I Barricode 652.35 Construction Signs 652.36 Maint of Traffic Control Device 652.38 Flagger 657.10 Moblizatien FEM NO. DESCRIPTION</td> <td></td>	606.364 Guardroil-Remove, Medify, and Reset Type 3b 606.367 Replace Unusable Existing Guard Rail Post 606.55 Guardroil Type 3 ~ Single Rail 606.751 Widen Shoulder For Breakaway Cable Terminar 606.77 Breakaway Cable Terminal 606.79 Breakaway Cable Terminal 627.611 6 Inch Solid While Pavement Marking Line 627.621 6 Inch Broken While Pavement Marking Line 627.631 6 Inch Solid Yellow Pavement Marking Line 627.631 6 Inch Solid Yellow Pavement Marking Line 627.631 6 Inch Solid Yellow Pavement Marking S 627.67 Removing Pavement Markings 627.691 Temp. 6 "Plastic Pave Marking Line, Yellow or Whi 639.18 Field Office Type A 639.22 Testing Facilities Bituminous Mixes 639.23 Testing Facilities Concrete 652.30 Flashing Arrow Beard 652.31 Type I Barricode 652.35 Construction Signs 652.36 Maint of Traffic Control Device 652.38 Flagger 657.10 Moblizatien FEM NO. DESCRIPTION			
606.367       Raplace Unusable Existing Guard Rail Post         606.55       Guardrail Type 3 ~ Single Rail       1         606.55       Guardrail Type 3 ~ Single Rail       1         606.751       Widen Shoulder For Breakaway Coble Terminal       6         606.72       Breakaway Coble Terminal       6         627.611       6 Inch Solid While Pavement Marking Line       1         627.621       6 Inch Solid Yellow Pavement Marking Line       1         627.631       6 Inch Solid Yellow Pavement Marking Line       1         627.631       6 Inch Solid Yellow Pavement Marking Line       1         627.631       6 Inch Solid Yellow Pavement Marking Line       1         627.631       6 Inch Solid Yellow Pavement Marking Line       1         627.631       Frequence Type A       0         627.631       Frequence Type A       0         637.23       Festing Facilities Bituminous Mixes       0         637.23       Festing Facilities Concrete       0         652.30       Flashing Arrow Beard       0         652.31       Type I Barricade       1         652.32       Construction Signs       3         623.34       Cone       1         657.10       Mablizatitern	606.367 Replace Unusable Existing Guard Rail Post 606.55 Guardrail Type 3 ~ Single Rail 606.751 Widen Shoulder For Breakaway Coble Terminal 606.721 Breakaway Coble Terminal 606.721 Breakaway Coble Terminal 627.621 GInch Solid While Pavement Marking Line 627.621 GInch Broken While Pavement Marking Line 627.631 GInch Solid Yellow Bavement Marking Line 627.631 GInch Solid Yellow Bavement Marking Line 627.631 GInch Solid Yellow Bavement Marking Line 627.631 Field Office Type A 637.23 Testing Facilities Bluminous Mixes 637.23 Testing Facilities Concrete 652.30 Flashing Arrow Beard 652.34 Cone 652.35 Construction Signs 652.361 Maint. of Traffic Control Device 652.38 Flagger 657.10 Moblization FEM NO. DESCRIPTION			
606.55       Guardrail Type 3~Single Roil       1         606.751       Widen Shoulder For Breakaway Coble Terminal         606.771       Breakaway Coble Terminal         627.611       6 Inch Solid While Pavement Marking Line         627.621       6 Inch Solid Yellaw Pavement Marking Line         627.621       7 Removing Pavement Marking Line, Yellow or While /         627.621       7 Emp. 6"Plastic Pave Marking Line, Yellow or While /         637.23       7 Field Office Type A       0.         637.23       7 Esting Facilities Bituminous Mixes       0.         652.35       Construction Signs       3         652.34       Cone       2         652.35       Construction Signs       3         653.38       Flogger       0.         657.10       Moblization       0.          Construction Signs	606.55 Guardrail Type 3 ~ Single Roil 606.751 Widen Shoulder For Breakaway Coble Terminal 606.72 Breakaway Coble Terminal 607.611 GInch Solid While Pavement Marking Line 627.621 GInch Broken White Pavement Marking Line 627.621 GInch Solid Yellow Pavement Marking Line 627.621 Removing Pavement Morkings 627.67 Removing Pavement Morkings 627.69 Temp. 6"Plastic Pave Marking Line, Yellow or Whites 637.23 Testing Facilities Bituminous Mixes 637.23 Testing Facilities Bituminous Mixes 637.23 Testing Facilities Bituminous Mixes 652.30 Flashing Arrew Beard 652.35 Construction Signs 652.35 Construction Signs 652.36 Maint of Traffic Control Device 652.38 Flagger 657.10 Moblization ESTIMATE OF LUMP SUM QUANTIN FEM NO. DESCRIPTION	/		
606.751       Widen Shoulder For Breakaway Coble Terminal         606.721       Breakaway Coble Terminal         627.611       6 Inch Solid While Pavement Marking Line         627.621       6 Inch Broken White Pavement Marking Line         627.621       6 Inch Solid Yellow Revenent Marking Line         627.621       6 Inch Solid Yellow Revenent Marking Line         627.631       6 Inch Solid Yellow Revenent Marking Line         627.631       6 Inch Solid Yellow Revenent Marking Line         627.67       Removing Pavement Marking Line, Yellow or While I         627.67       Removing Pavement Marking Line, Yellow or While I         637.82       Field Office Type A         637.23       Testing Facilities Bituminous Mixes         637.23       Testing Facilities Concrete         652.30       Flashing Arrew Board         652.31       Type I Barricode         652.35       Construction Signs         652.35       Construction Signs         652.38       Flagger         655.38       Flagger         657.10       Moblization         657.10       Moblization         657.10       DESCRIPTION	606.751       Widen Shoulder For Breakaway Coble Terminal         606.72       Breakaway Coble Terminal         627.611       61nch Solid While Pavement Marking Line         627.621       61nch Broken White Pavement Marking Line         627.631       66nch Solid Yellaw Pavement Marking Line         627.631       66nch Solid Yellaw Pavement Marking Line         627.631       66nch Solid Yellaw Pavement Marking Line         627.637       Removing Pavement Markings         627.637       Removing Pavement Markings         627.637       Removing Pavement Markings         627.637       Removing Pavement Markings         627.647       Removing Pavement Markings         637.82       Flashing Facilities Bituminous Mixes         637.23       Testing Facilities Concrete         622.30       Flashing Arrow Board         652.35       Construction Signs         652.38       Flogger         657.10       Mobli			
606.77       Breakaway Cable Terminal         627.611       6 Inch Solid While Pavement Marking Line         627.621       6 Inch Broken White Pavement Marking Line         627.621       6 Inch Solid Yellow Revement Marking Line         627.631       6 Inch Solid Yellow Revement Marking Line         627.631       6 Inch Solid Yellow Revement Marking Line         627.631       6 Inch Solid Yellow Revement Marking Line         627.671       Removing Pavement Morkings         627.691       Temp. 6" Plastic Pave Marking Line, Yellow or White I         637.18       Field Office Type A         637.23       Testing Facilities Bituminous Mixes         637.23       Testing Facilities Concrete         652.30       Flashing Arrow Board         652.31       Type I Barricode         652.35       Construction Signs         652.35       Construction Signs         652.36       Flogger         6557.10       Moblization         657.10       Moblization         657.10       DESCRIPTION	606.77 Breakawy Cable Terminal 627.611 & Inch Solid While Pavement Marking Line 627.621 & Inch Broken White Pavement Marking Line 627.631 & Inch Broken White Pavement Marking Line 627.631 & Inch Solid Yellow Pavement Markings 627.691 Temp. 6 'Plastic Pave Marking Line, Yellow or Whi 639.18 Field Office Type A 639.22 Testing Facilities Bituminous Mixes 637.23 Testing Facilities Concrete 652.30 Flashing Arrow Board 652.31 Type I Barricade 652.35 Construction Signs 652.36 Maint. of Traffic Control Device 652.38 Flogger 657.10 Mablization ESTIMATE OF LUMP SUM QUANTI, FEM NO. DESCRIPTION			
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627.621       6.Inch Broken White Pavement Marking Line       1         627.631       6.Inch Solid Yellow Pavement Marking Line       1         627.67       Removing Pavement Markings       1         637.18       Field Office Type A       0         637.23       Testing Facilities Bituminous Mixes       0         637.23       Testing Facilities Concrete       0         652.30       Flashing Arrew Beard       0         652.31       Type I Barricade       1         652.35       Construction Signs       3         652.36       Maint. of Traffic Control Device       0         657.10       Moblization       0         ESTIMATE OF LUMP SUM QUANTITIES <td colspan="2" estimate="" lump="" of="" qua<="" sum="" td=""><td>627.621 GInch Broken White Pavement Marking Line 627.631 GInch Solid Yellow Pavement Marking Line 627.671 Removing Pavement Markings 627.691 Temp. 6"Plastic Pave Marking Line, Yellow or Wh. 639.18 Field Office Type A 639.23 Testing Facilities Bituminous Mixes 639.23 Testing Facilities Concrete 652.30 Flashing Arrow Board 652.31 Type I Barricode 652.35 Construction Signs 652.36 Maint. of Traffic Control Device 652.38 Flagger 659.10 Moblization ESTIMATE OF LUMP SUM QUANTIN TEM NO. DESCRIPTION</td><td></td></td>	<td>627.621 GInch Broken White Pavement Marking Line 627.631 GInch Solid Yellow Pavement Marking Line 627.671 Removing Pavement Markings 627.691 Temp. 6"Plastic Pave Marking Line, Yellow or Wh. 639.18 Field Office Type A 639.23 Testing Facilities Bituminous Mixes 639.23 Testing Facilities Concrete 652.30 Flashing Arrow Board 652.31 Type I Barricode 652.35 Construction Signs 652.36 Maint. of Traffic Control Device 652.38 Flagger 659.10 Moblization ESTIMATE OF LUMP SUM QUANTIN TEM NO. DESCRIPTION</td> <td></td>		627.621 GInch Broken White Pavement Marking Line 627.631 GInch Solid Yellow Pavement Marking Line 627.671 Removing Pavement Markings 627.691 Temp. 6"Plastic Pave Marking Line, Yellow or Wh. 639.18 Field Office Type A 639.23 Testing Facilities Bituminous Mixes 639.23 Testing Facilities Concrete 652.30 Flashing Arrow Board 652.31 Type I Barricode 652.35 Construction Signs 652.36 Maint. of Traffic Control Device 652.38 Flagger 659.10 Moblization ESTIMATE OF LUMP SUM QUANTIN TEM NO. DESCRIPTION	
627,631       6Inch Solid Yellow Revenent Marking Line         627,677       Removing Pavement Markings         627,697       Temp. 6'Plastic Pave Marking Line, Yellow or While         637,18       Field Office Type A         637,22       Testing Facilities Bituminous Mixes         637,23       Testing Facilities Bituminous Mixes         637,23       Testing Facilities Concrete         662,30       Flashing Arrow Board         652,31       Type I Barricode         652,32       Construction Signs         652,33       Drum         652,34       Cone         652,35       Construction Signs         652,38       Flagger         652,38       Flagger         657,10       Moblization         657,10       Moblization         657,10       Deblization         657,10	627.631 GInch Solid Yellow Pavement Marking Line 627.67 Removing Pavement Markings 627.691 Temp. 6"Plastic Pave Marking Line, Yellow or Wh. 639.18 Field Office Type A 639.22 Testing Facilities Bituminous Mixes 639.23 Testing Facilities Concrete 652.30 Flashing Arrow Board 652.31 Type I Barricode 652.35 Construction Signs 652.361 Maint of Traffic Control Device 652.38 Flogger 657.10 Mobilization ESTIMATE OF LUMP SUM QUANTI. TEM NO. DESCRIPTION			
627.67       Removing Pavament Markings       /         627.691       Temp. 6"Plastic Pave Marking Line, Yellow or White 1         637.18       Field Office Type A       0.         637.21       Esting Facilities Bituminous Mixes       0.         637.23       Testing Facilities Bituminous Mixes       0.         637.23       Testing Facilities Bituminous Mixes       0.         637.23       Testing Facilities Concrete       0.         652.30       Flashing Arrew Beard       0.         652.31       Type I Barricade	627.67 Removing Pavement Markings 627.691 Temp. 6' Plastic Pave Marking Line, Yellow or Whi 637.18 Field Office Type A 639.22 Testing Facilities Bituminous Mixes 639.23 Testing Facilities Concrete 652.30 Flashing Arrow Board 652.31 Type I Barricade 652.34 Cone 652.35 Construction Signs 652.36 Maint of Traffic Control Device 652.38 Flagger 659.10 Moblization ESTIMATE OF LUMP SUM QUANTI, TEM NO. DESCRIPTION			
627.691       Temp. 6. "Plastic Pave Marking Line, Yellow or White 1         637.18       Field Office Type A       0.         637.22       Testing Facilities Bituminous Mixes       0.         637.23       Testing Facilities Concrete       0.         6437.23       Testing Facilities Concrete       0.         6437.23       Testing Facilities Concrete       0.         6427.30       Flashing Arrew Beard       0.         6452.31       Type I Barricade       2.         652.33       Drum       1.         652.34       Cone       1.         652.35       Construction Signs       3.         652.36       Maint. of Traffic Control Device       0.         657.10       Moblization       0.         ESTIMATE OF LUMP SUM QUANTITIES         DESCRIPTION	627.691 Temp. 6 "Plastic Pave Marking Line, Yellow or Wh. 639.18 Field Office Type A 639.22 Testing Facilities Bituminous Mixes 639.23 Testing Facilities Concrete 652.30 Flashing Arrow Board 652.31 Type I Barricade 652.32 Drum 652.35 Construction Signs 652.36 Maint of Traffic Control Device 652.38 Flagger 657.10 Moblization ESTIMATE OF LUMP SUM QUANTI. TEM NO. DESCRIPTION			
631.18       Field Office Type A       0.         639.22       Testing Facilities Bituminous Mixes       0.         639.23       Testing Facilities Concrete       0.         652.30       Flashing Arrow Board       0.         652.31       Type I Barricode       0.         652.32       Drum       0.         652.33       Drum       0.         652.34       Cone       0.         652.35       Construction Signs       3.         652.36       Maint. of Traffic Control Device       0.         652.38       Flagger       0.         652.38       Flagger       0.         657.10       Moblization       0.         ESTIMATE OF LUMP SUM QUANTITIES         IEM NO.         DESCRIPTION	637.18 Field Office Type A 639.22 Testing Facilities Bituminous Mixes 639.23 Testing Facilities Concrete 652.30 Flashing Arrow Board 652.31 Type I Barricode 652.33 Drum 652.34 Cone 652.35 Construction Signs 652.35 Construction Signs 652.38 Flagger 657.10 Moblization ESTIMATE OF LUMP SUM QUANTIN TEM NO. DESCRIPTION			
A39, 22       Testing Facilities Bituminous Mixes       0.         639, 23       Testing Facilities Concrete       0.         652, 30       Flashing Arrow Board       0.         652, 31       Type I Barricade       1.         652, 32       Drum       1.         652, 33       Drum       1.         652, 34       Cone       1.         652, 35       Construction Signs       3.         652, 36       Maint. of Traffic Control Device       0.         652, 38       Flagger       1.         652, 38       Flagger       1.         652, 38       Flagger       0.         652, 38       Flagger       0.         652, 38       Flagger       0.         657,10       Moblization       0.         ESTIMATE OF LUMP SUM QUANTITIES         FEM NO.         DESCRIPTION	639.22 Testing Facilities Bituminous Mixes 639.23 Testing Facilities Concrete 652.30 Flashing Arrow Board 652.31 Type I Barricade 652.33 Drum 652.34 Cone 652.35 Construction Signs 652.36 Maint of Traffic Control Device 652.38 Flagger 657.10 Moblization ESTIMATE OF LUMP SUM QUANTI, TEM NO. DESCRIPTION	1/2 /		
637.23       Testing Facilities Concrete       0.         652.30       Flashing Arrow Board       0.         652.31       Type I Barricode	639.23 Testing Facilities Concrete 652.30 Flashing Arrow Board 652.31 Type I Barricode 652.33 Drum 652.34 Cone 652.35 Construction Signs 652.361 Maint of Traffic Control Device 652.38 Flagger 657.10 Moblization ESTIMATE OF LUMP SUM QUANTI, TEM NO. DESCRIPTION	0		
652,30       Flashing Arrew Beard       0.         652,31       Type I Barricode	452.30 Flashing Arrew Beard 452.31 Type I Barricade 452.33 Drum 452.33 Drum 452.34 Cone 452.35 Construction Signs 452.36 Maint of Traffic Control Device 452.38 Flagger 4659.10 Moblization ESTIMATE OF LUMP SUM QUANTI, TEM NO. DESCRIPTION	0		
AS2.31     Type I Barricade	1652.31 Type I Barricode 1652.33 Drum 1652.34 Cone 1652.35 Construction Signs 1652.36 Maint of Traffic Control Device 1652.38 Flagger 1657.10 Moblization ESTIMATE OF LUMP SUM QUANTIN TEM NO. DESCRIPTION	0		
652,33     Drum     1       652,34     Cone     1       652,35     Construction Signs     3       652,361     Maint. of Traffic Control Device     0.       652,38     Flagger     10       657,10     Moblization     0.       ESTIMATE OF LUMP SUM QUANTITIES       TEM NO.     DESCRIPTION	652.33 Drum 652.34 Cone 652.35 Construction Signs 652.361 Maint of Traffic Control Device 652.38 Flagger 657.10 Moblization ESTIMATE OF LUMP SUM QUANTI, TEM NO. DESCRIPTION	0.		
652,33       Drum       1         652,34       Cone       1         652,35       Construction Signs       3         652,361       Maint. of Traffic Control Device       0.         652,38       Flagger       10         657,10       Moblization       0.         Estimate of Lump Sum Quantities         OF Lump Sum Quantities         OF Lump Sum Quantities	152.34 Cone 152.35 Construction Signs 152.361 Maint of Traffic Control Device 152.38 Flagger 1657.10 Moblization ESTIMATE OF LUMP SUM QUANTIN TEM NO. DESCRIPTION			
152,34       Cone       1         152,35       Construction Signs       3         152,361       Maint. of Traffic Control Device       0,         152,38       Flagger       10         1552,38       Flagger       10         1552,38       Flagger       10         1552,38       Flagger       10         1552,38       Flagger       10         1657,10       Moblization       0.         1657,10       DESCRIPTION       QUA         1657,10       DESCRIPTION       QUA	652,35 Construction Signs 52,361 Maint of Traffic Control Device 552,38 Flagger 659.10 Moblization ESTIMATE OF LUMP SUM QUANTI, TEM NO. DESCRIPTION			
152,361 Maint of Traffic Control Device 0, 10, 10, 10, 10, 10, 10, 10, 1	152,361 Maint of Traffic Control Device 152,38 Flagger 1659.10 Moblization ESTIMATE OF LUMP SUM QUANTI, TEM NO. DESCRIPTION			
152,361 Maint of Traffic Control Device 0, 10, 10, 10, 10, 10, 10, 10, 1	652,361 Maint of Traffic Control Device 652,38 Flagger 657.10 Moblization ESTIMATE OF LUMP SUM QUANTI, TEM NO. DESCRIPTION	=		
552.38 Flagger 10 659.10 Moblization 0. ESTIMATE OF LUMP SUM QUANTITIES TEM NO. DESCRIPTION QUA	552, 38 Flagger 659.10 Moblization ESTIMATE OF LUMP SUM QUANTIN TEM NO. DESCRIPTION			
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506.172 FIELD PAINTING EXISTING STRUCTURAL STEEL 357	506.172 FIELD PAINTING EXISTING STRUCTURAL STEEL			
506.172 FIELD PAINTING EXISTING STRUCTURAL STEEL 357	506.172 FIELD PAINTING EXISTING STRUCTURAL STEEL	TIES		
506.172 FIELD PAINTING EXISTING STRUCTURAL STEEL 35	506.172   FIELD PAINTING EXISTING STRUCTURAL STEEL	TIES		
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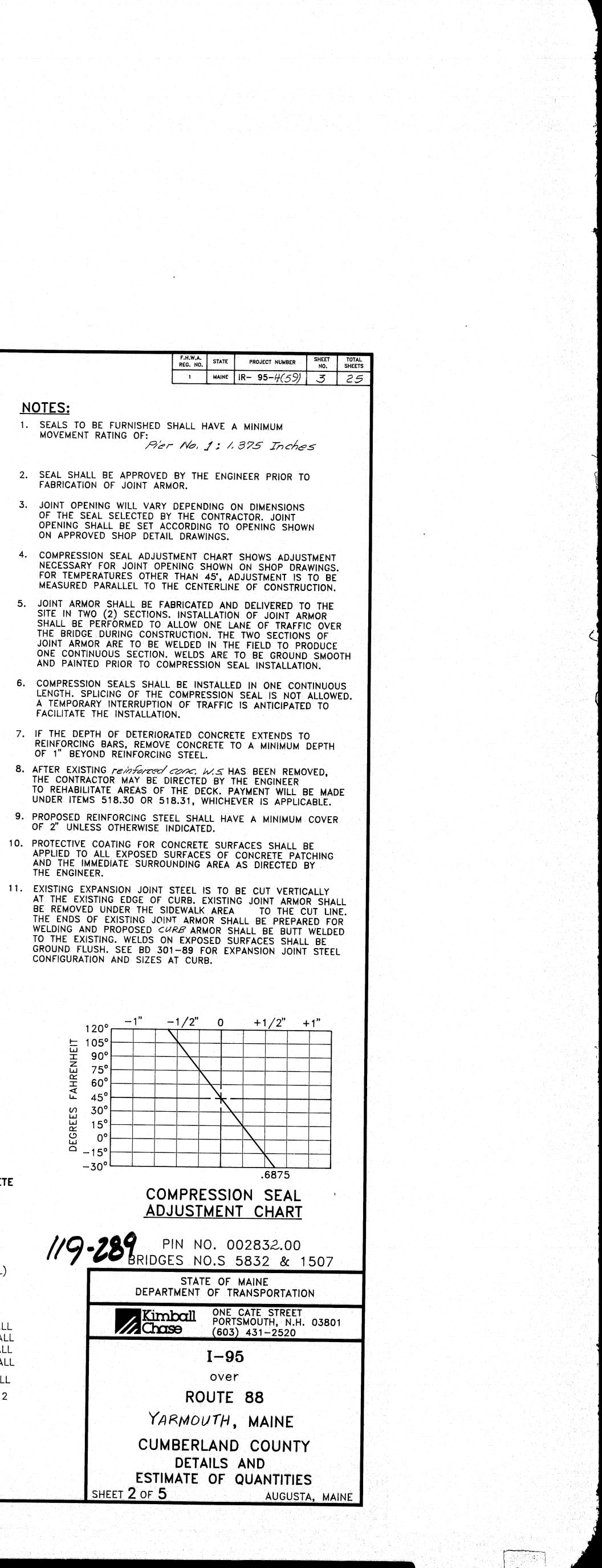
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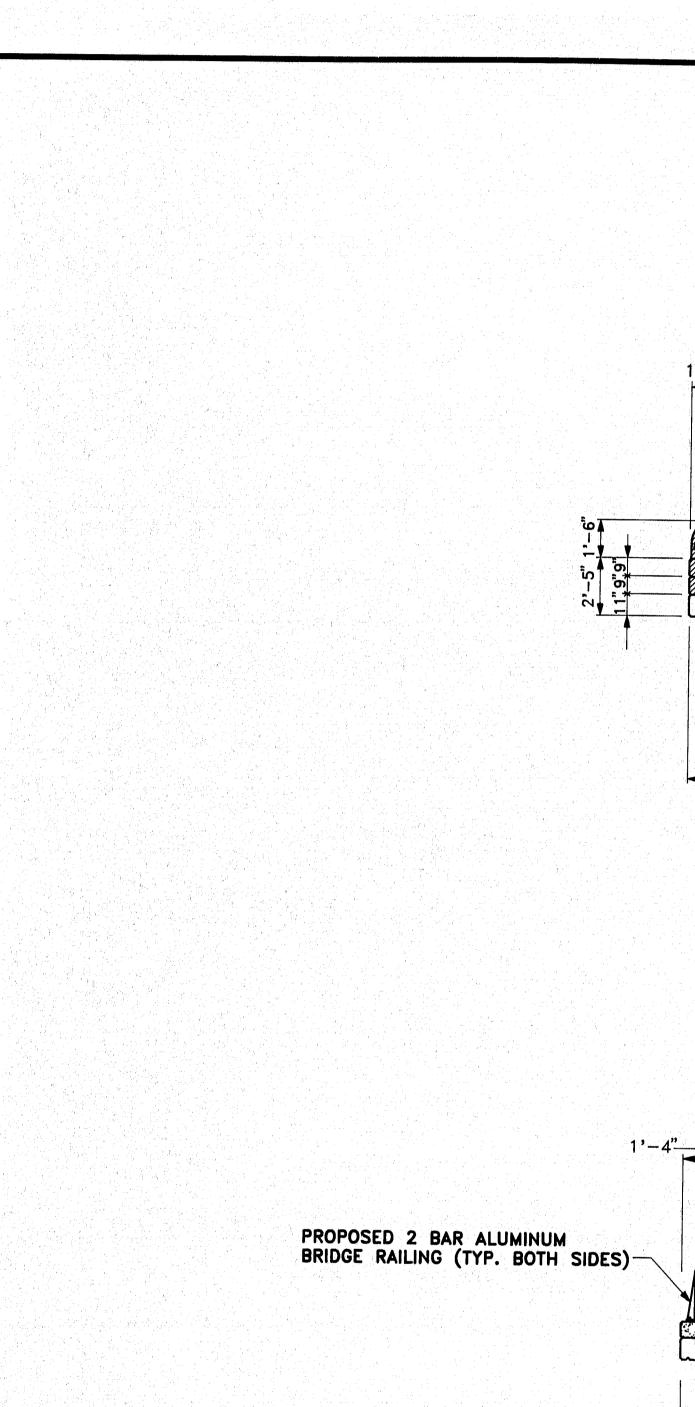


F.H.W.A. REG. NO.	STATE	PROJECT NUMBER	SHEET NO.
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NOTES:

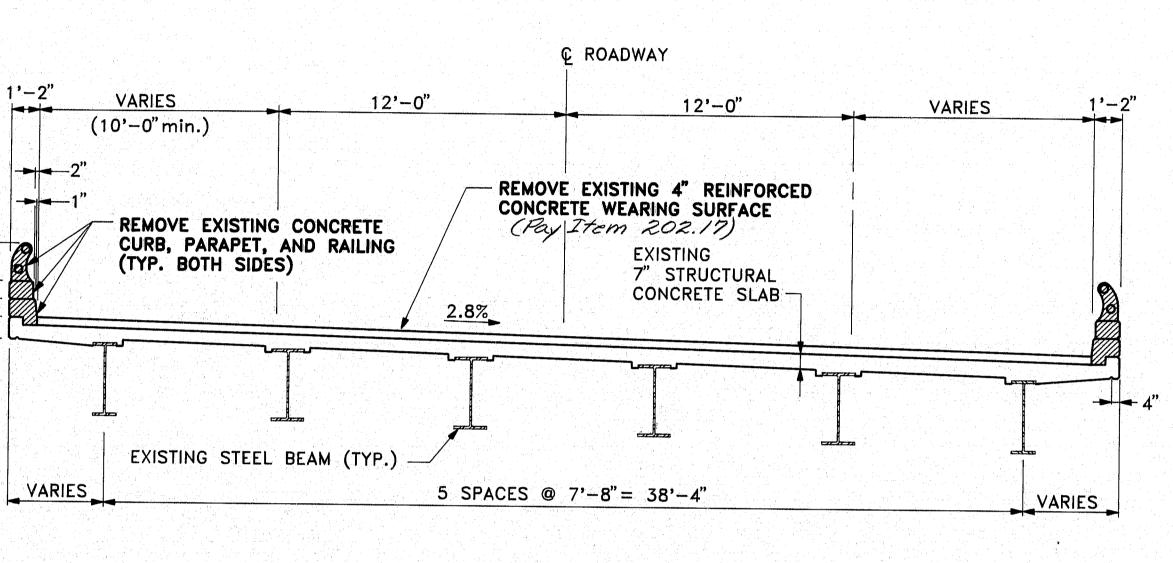
- 1. SEALS TO BE FURNISHED SHALL HAVE A MINIMUM MOVEMENT RATING OF:
- 2. SEAL SHALL BE APPROVED BY THE ENGINEER PRIOR TO
- 3. JOINT OPENING WILL VARY DEPENDING ON DIMENSIONS OF THE SEAL SELECTED BY THE CONTRACTOR. JOINT OPENING SHALL BE SET ACCORDING TO OPENING SHOWN ON APPROVED SHOP DETAIL DRAWINGS.
- 4. COMPRESSION SEAL ADJUSTMENT CHART SHOWS ADJUSTMENT MEASURED PARALLEL TO THE CENTERLINE OF CONSTRUCTION.
- JOINT ARMOR SHALL BE FABRICATED AND DELIVERED TO THE SITE IN TWO (2) SECTIONS. INSTALLATION OF JOINT ARMOR THE BRIDGE DURING CONSTRUCTION. THE TWO SECTIONS OF
- A TEMPORARY INTERRUPTION OF TRAFFIC IS ANTICIPATED TO FACILITATE THE INSTALLATION.
- OF 1" BEYOND REINFORCING STEEL.
- THE CONTRACTOR MAY BE DIRECTED BY THE ENGINEER
- 9. PROPOSED REINFORCING STEEL SHALL HAVE A MINIMUM COVER OF 2" UNLESS OTHERWISE INDICATED.
- APPLIED TO ALL EXPOSED SURFACES OF CONCRETE PATCHING AND THE IMMEDIATE SURROUNDING AREA AS DIRECTED BY THE ENGINEER.
- TO THE EXISTING. WELDS ON EXPOSED SURFACES SHALL BE



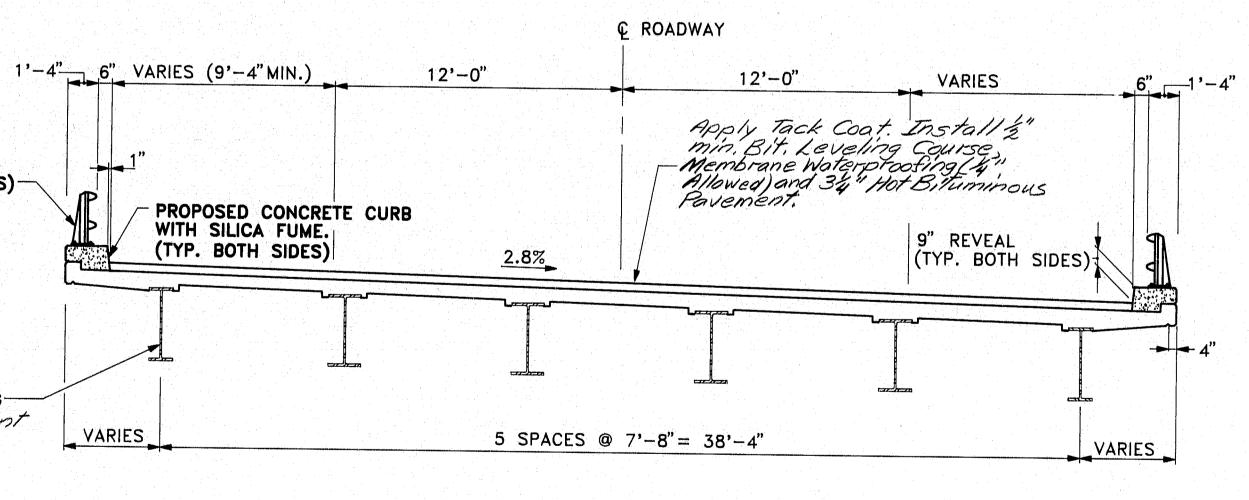


	BRIDGE RAILING (TYP. BOTH SIDES)
	CLEAN AND PAINT EXISTING STRUCTURAL STEEL INCLUDING BEARINGS (TYP.) (100 Percent of Existing Paint shall be removed)
ANGES	
FIELD CHANGES	

	ANS CHECKED S. McNally 7-5-90
DESIGN- DETAILED   P. KOSS   J. Balley   6-29-90	DETAILED I NUSS V. BUIRY

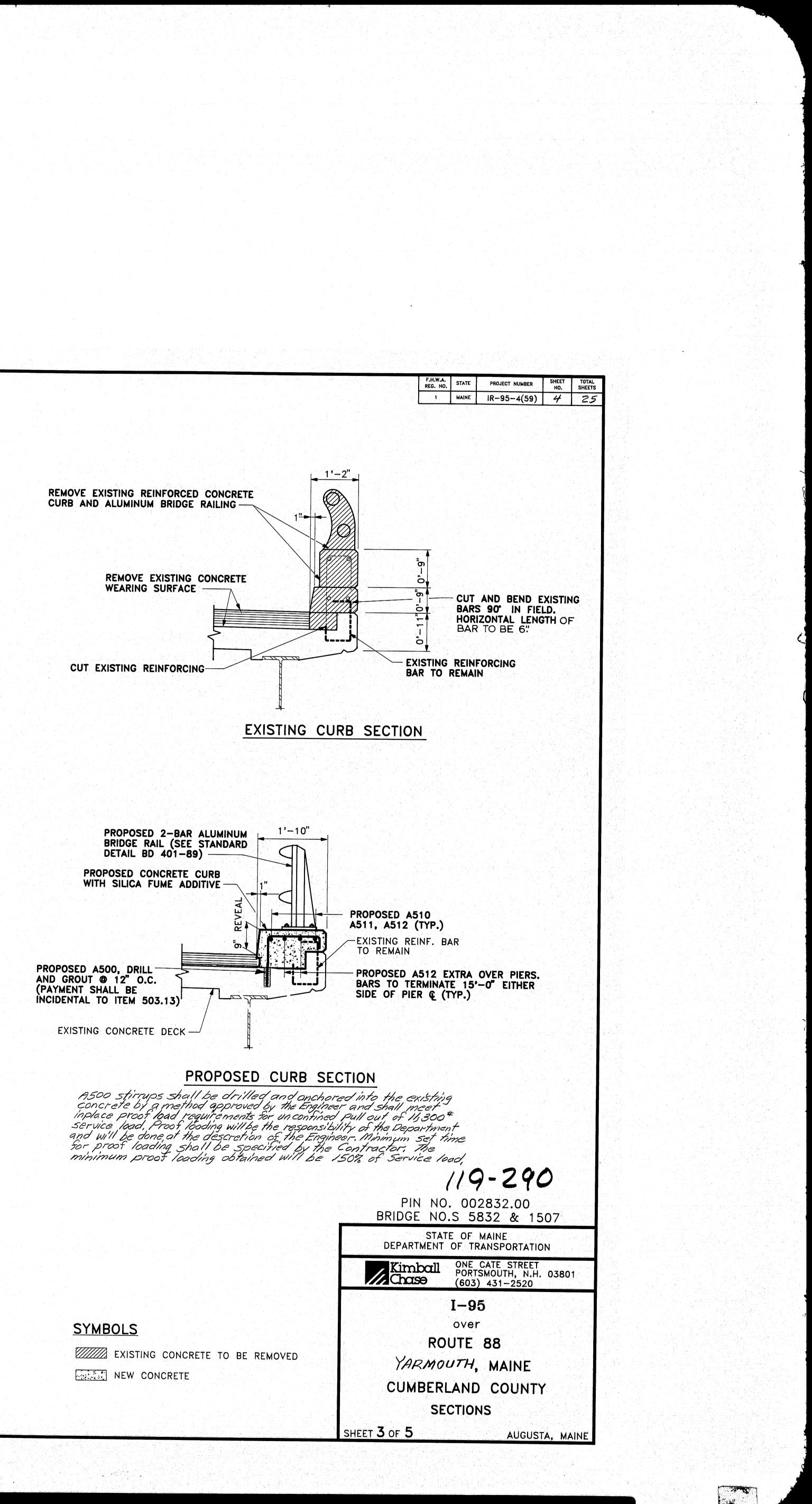


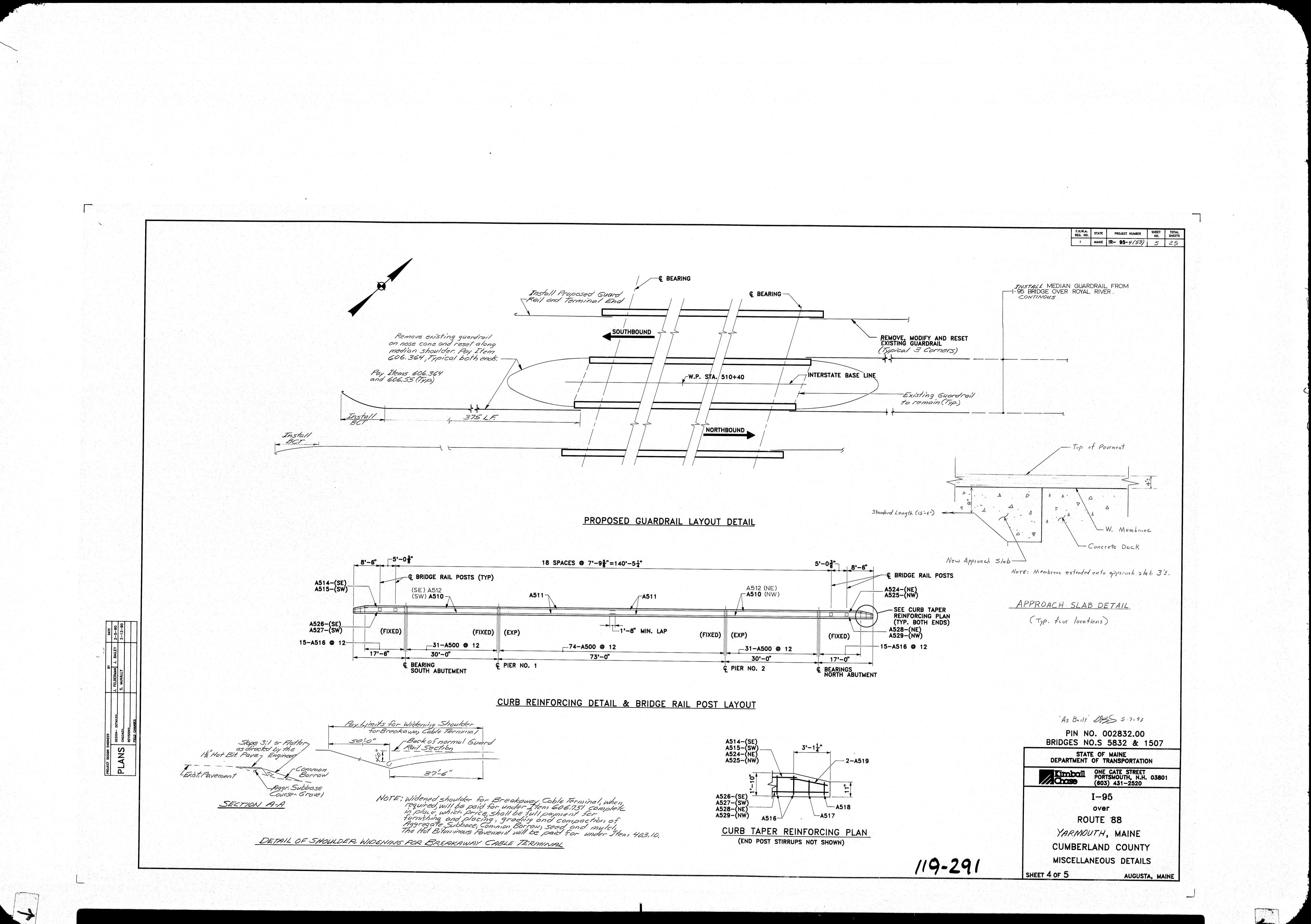
EXISTING CROSS SECTION OF DECK



# PROPOSED CROSS SECTION OF DECK

The Existing Concrete Wearing Surface may be bonded to the concrete deck, and therefore a Bridge Deck Evaluation Report for the subject bridge has been made available for the Contractor's reference at the Bridge Design Office in Augusta. This report is based on the interpretation by the Department of tests and information obtained for the subject site and no assurance is given that the information or the conclusions of the report will be representative of actual conditions at the time of construction.





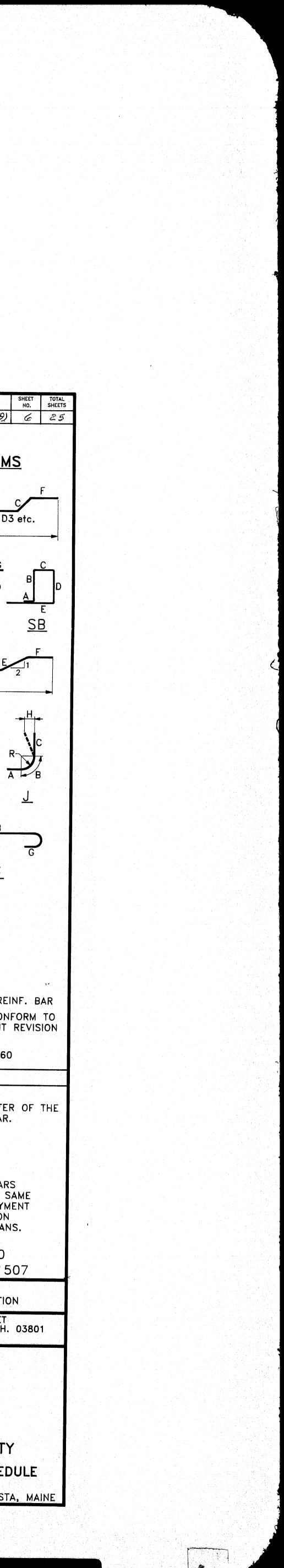
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MARK	NO.	LENGTH	LOCATION	MARK	NO.	LENGTH	LOCATION	MARK	NO.	LENGTH		LOCATION	MARK	NO.	LENGTH	TYPE	A	В	C C
	SUP	ERSTRU	CTURE										SU	PERS	TRUCTL				
A510	16	30'-3"	VERTICAL CURB										A400	1	2'-5"			-	
A511	16	37'-0"	VERTICAL CURB										A401	64	2'-7"	SB	о	0	0'-6'
A512	16	31'-0"	VERTICAL CURB										A402	-	$1'-7\frac{1}{4}"$		$0'-6\frac{1}{2}'$	-	<u> </u>
A514	4	13'-5"	S.E. WINGWALL												1 4				0-0
A515	4	12'-8"	S.W. WINGWALL									munnanananan ing pangalan na pangalan na pangan	A500	544	$3-2\frac{3}{4}$		-	$1^{9}-4\frac{3}{4}$	" 1
A520	32	31'-11"	JOINT MODIFICATION										A516	112	$5-2_{\overline{4}}$ 6'-3"	11	-		
A524	4	12'-2"	N.W. WINGWALL	1	1								A517			-	$0'-5\frac{1}{2}"$	-	
A525	4	12'-11"	N.E. WINGWALL									Antonio		8	5'-5"		$0'-5\frac{1}{2}"$		
A526	4	16'-4"	S.E. WINGWALL										A518	8	4'-7"	11	$0'-5\frac{1}{2}"$	0'-6″	1'-4
A527	4	15'-7"	S.W. WINGWALL						-		_		A519	16	4'-8"				-
4528	4	15'-1"	N.W. WINGWALL		-				i si surra Ricercia Ricercia						-				
4529		·	N.E. WINGWALL																
														END	POST				
	FND	POST											EP401	32	4'-11"	S	0	2'-0"	0'-1
P400		2'-0"											EP402	16	4'-6"	S	0	2'-0"	1
P405	48	1'-10"											EP500	32	7'-10"	S	0	5'-6"	0'-7'
													EP501	32	6'-8"	SJ	O	3'-1"	
													EP502	32	4'-7"	S	0	1'-10"	-
													EP503		4'-2"	S		1'-10"	
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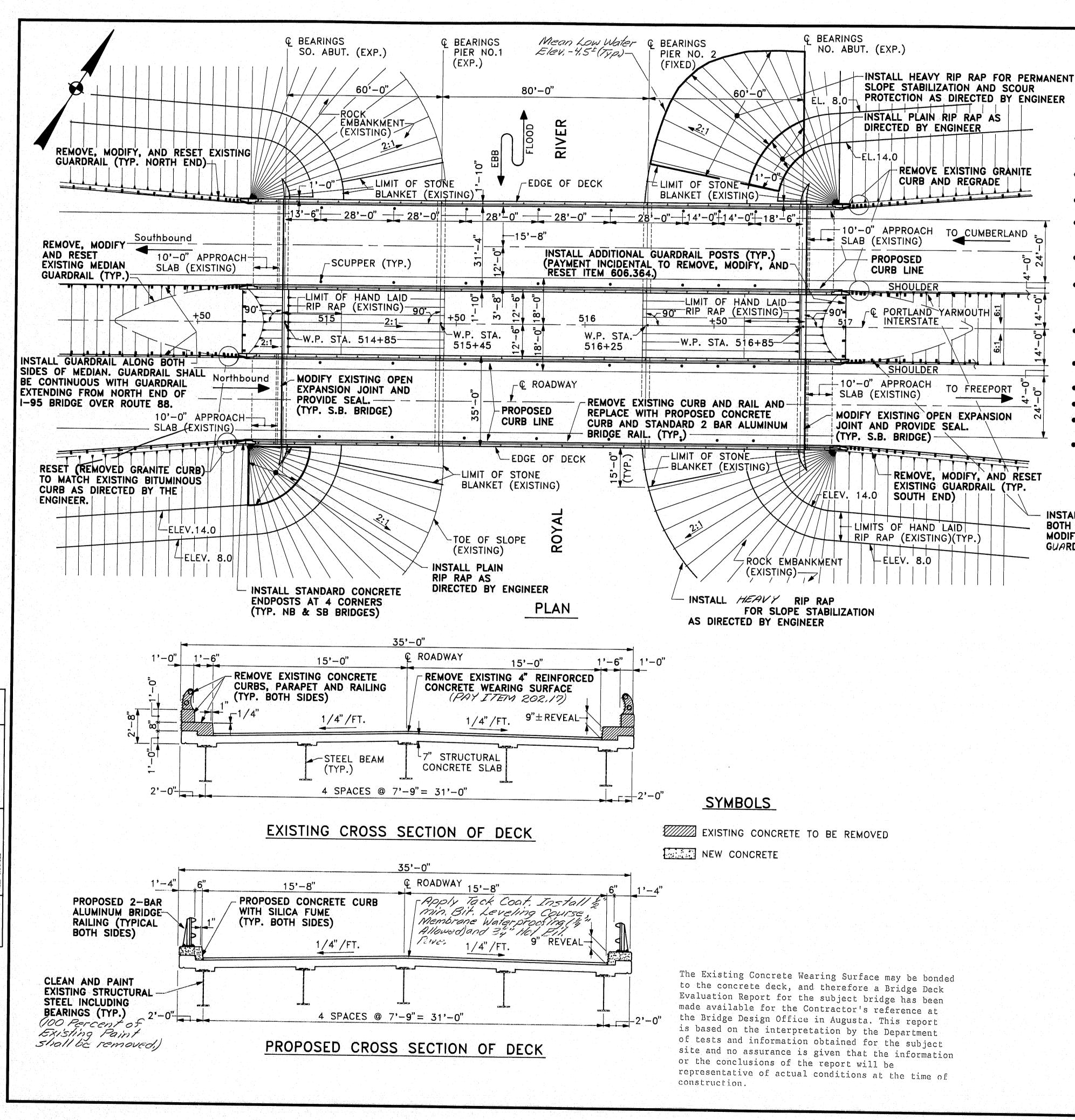
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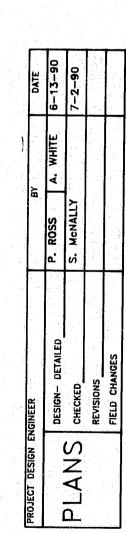
PLANS CHECKEN S. MCNALLY 7-5-90	

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									F.H.W.A. REG. NO. STATE PROJECT NUMBER
BE	NT B	ARS							1 MAINE IR- 95- 4(59)
С	D	Е	F	G	н	0	R	LOCATION	
•									TYPE-BENDING DIAGRAM
	0'-9"				0'-8"	· · · · · · · · · · · · · · · · · · ·	•	EXPANSION JOINT	B $E1$ $E2$ etc.
0'-6''		1'-4"						EXPANSION JOINT	$\begin{array}{c c} & H \\ \hline \\ D1 \\ \hline \\ D2 \\ 1 \\ \hline \\ D3 \\ \hline \\ \\ \\ D3 \\ \hline \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ $
$\frac{1}{2}$	•					0'-4"	$0'-1\frac{1}{2}$	EXPANSION JOINT	O 
" 1'—5"	0'-5"		······································		 			VERTICAL CURB	$\underline{B}$
1'-4"		1'-4"		$0'-5\frac{1}{2}"$				RETURN WING	
" 1'-4"	0'-11'	"1'-4"		$-\frac{1}{2}$		••••••		RETURN WING	
1'-4"	0'-6"	1'-4"		$0'-5\frac{1}{2}"$				RETURN WING	<u>HB</u> <u>H</u> <u>S</u> <u>SL</u>
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									ALL DIMENSIONS ARE OUT TO OUT OF REI
·····									BENDING DETAILS AND HOOKS SHALL CON THE RECOMMENDATIONS OF THE CURRENT
									OF ACI STANDARD 318.
									REINFORCING BAR: ASTM A615 GRADE 60
									GENERAL NOTES
		-							1. FIRST DIGIT(S) FOLLOWING THE LETTER MARK INDICATES SIZE OF REINF. BAR.
								anna an	
		and a second		*****					2. EACH TRUSS BAR, TYPE B, MAY BE REPLACED BY TWO (2) STRAIGHT BARS (ONE TOP & ONE BOTTOM) OF THE S
			9 19 19 19 19 19 19 19 19 19 19 19 19 19		an an ( 1-1 9 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1				BAR SIZE AS THE TRUSS BAR. PAYM
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С	D	E	F	G	Н	0	D		REINFORCING STEEL SCHED
ни 1991 — С. Алариана,					Π	V	R	LOCATION	SHEET 5 OF 5 AUGUST







## SCOPE OF WORK

- REMOVE EXISTING 4" CONCRETE WEARING SURFACE. INSTALL HOT BITUMINOUS PAVEMENT AND MEMBRANE WATERPROOFING (1/4" EACH ALLOWED).
- CLEAN AND PAINT EXISTING STRUCTURAL STEEL INCLUDING BEARINGS.
- MODIFY EXISTING OPEN ARMORED JOINTS AT NORTH AND SOUTH ENDS OF BRIDGES AND PROVIDE SEALS.
- REHABILITATE CRACKED, SPALLED OR OTHERWISE DETERIORATED CONCRETE ON ABUTMENTS AND CONCRETE BRIDGE DECK, AS DIRECTED BY THE ENGINEER.
- INSTALL STANDARD CONCRETE END POSTS AT APPROACH AND DEPARTURE ENDS OF BRIDGES.
- REMOVE EXISTING SUBSTANDARD CONCRETE CURB AND NON-CONTINUOUS ALUMINUM BRIDGE RAIL AND INSTALL 1'-10" WIDE CONCRETE CURBS WITH SILICA FUME AND STANDARD 2-BAR ALUMINUM BRIDGE RAIL.
- REMOVE, MODIFY, AND RESET APPROACH GUARDRAIL TO PROVIDE FOR STANDARD HEIGHT AND POST SPACING.
- INSTALL ADDITIONAL POSTS AT MEDIAN GUARDRAIL BETWEEN BRIDGES.
- INSTALL GUARDRAIL ALONG MEDIAN.
- MAINTAIN ONE 12 FOOT MINIMUM TRAFFIC LANE ON EACH BRIDGE.
- RIP RAP FOR EROSION PROTECTION AND INSTALL SLOPE STABILIZATION AS DIRECTED BY THE ENGINEER.
- REMOVE EXISTING GRANITE CURB AND REGRADE AT NORTH APPROACH AND RESET (REMOVED GRANITE CURB) TO MATCH EXISTING BITUMINOUS CURB AT SOUTH APPROACH AS DIRECTED BY THE ENGINEER.

INSTALL PROPOSED GUARDRAIL ALONG BOTH SIDES OF MEDIAN. REMOVE. MODIFY AND RESET EXISTING MEDIAN GUARDRAIL.

1.00	F.H.W.A. REG. NO.	STATE	PROJECT NUMBER
	1	MAINE	IR-95-4(59)
			YARMOUTH

NB

SPECIFICATION

DESIGN: AASHTO STANDARD SPECIFICATIONS FOR HIGHWAY BRIDGES 1989.

CONTRACT: STATE OF MAINE, DEPARTMENT OF TRANS-PORTATION, STANDARD SPECIFICATIONS, HIGHWAYS AND BRIDGES, REVISION OF JULY 1988.

### DESIGN LOADING

LIVE LOAD: . . . . . . . . . . . . . . . . . H20-S16-44 (MODIFIED) MATERIALS

REINFORCING STEEL: . . . . . ASTM A615 GRADE 60 STRUCTURAL STEEL: . . . . . ASTM A36 (PAINTED)

### BASIC ALLOWABLE STRESSES

CONCRETE:	• •	•		 fc=1,200psi
<b>REINFORCING STEEL:</b>	•	•	•	fs=24,000psi
STRUCTURAL STEEL:	•	•.	•	 f <sub>s</sub> =18,000psi

### TRAFFIC DATA

AADT (1989)	.14.730
AADI (2009)	.26.510
DESIGN HOURLY VOLUME	. 3.446
PERCENT TRUCKS	. 9%
DIRECTIONAL DISTRIBUTION (%)	100
POSTED SPEED (MPH)	. 65
18 KIP EQUIVALÈNT P2.5	1,482

### INDEX OF SHEETS

1) GENERAL PLAN AND SECTIONS 2) DETAILS AND ESTIMATE OF QUANTITIES

) MISCELLANEOUS DETAILS 4) REINFORCING STEEL SCHEDULE

LOCATION MAP

SCALE

119-293 STEPHEN MONAL LMNo. 5981 STE VONAL E

5/7/93

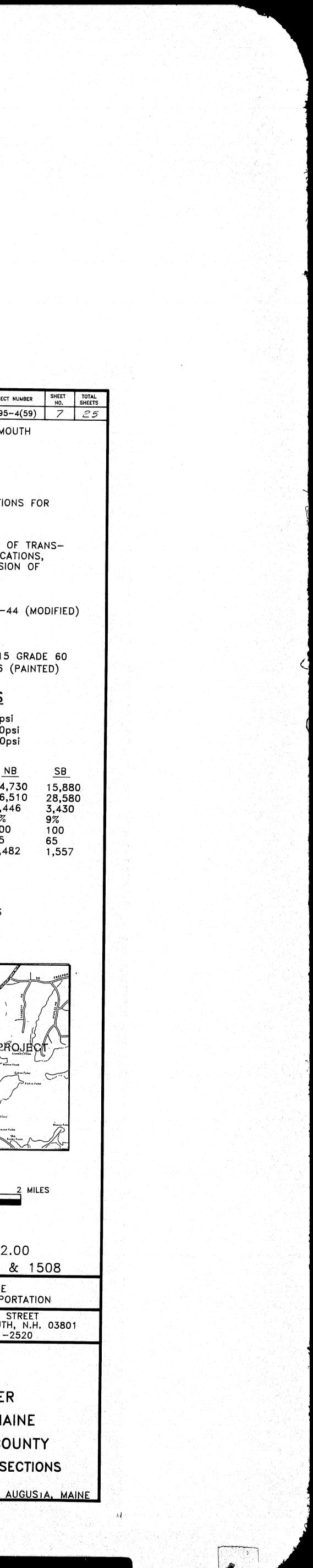
PLANS OF THE EXISTING BRIDGE ARE AVAILABLE FOR THE CONTRACTOR'S REFERENCE AT THE BRIDGE DESIGN OFFICE IN AUGUSTA. THE PLANS ARE REPRODUCTIONS OF ORIGINAL DRAWINGS AS PREPARED FOR THE CONSTRUCTION OF THE BRIDGE AND IT IS VERY UNLIKELY THAT THE PLANS WILL SHOW ANY CONSTRUCTION FIELD CHANGES OR ANY ALTERA-TIONS WHICH MAY HAVE BEEN MADE TO THE BRIDGE DURING ITS LIFE SPAN.

de part all all the

PIN NO. 002832.00 BRIDGE NO.S 5834 & 1508 STATE OF MAINE DEPARTMENT OF TRANSPORTATION Kimball ONE CATE STREET PORTSMOUTH, N.H. 03801 (603) 431-2520 (603) 431-2520 I-95 over ROYAL RIVER YARMOUTH, MAINE CUMBERLAND COUNTY

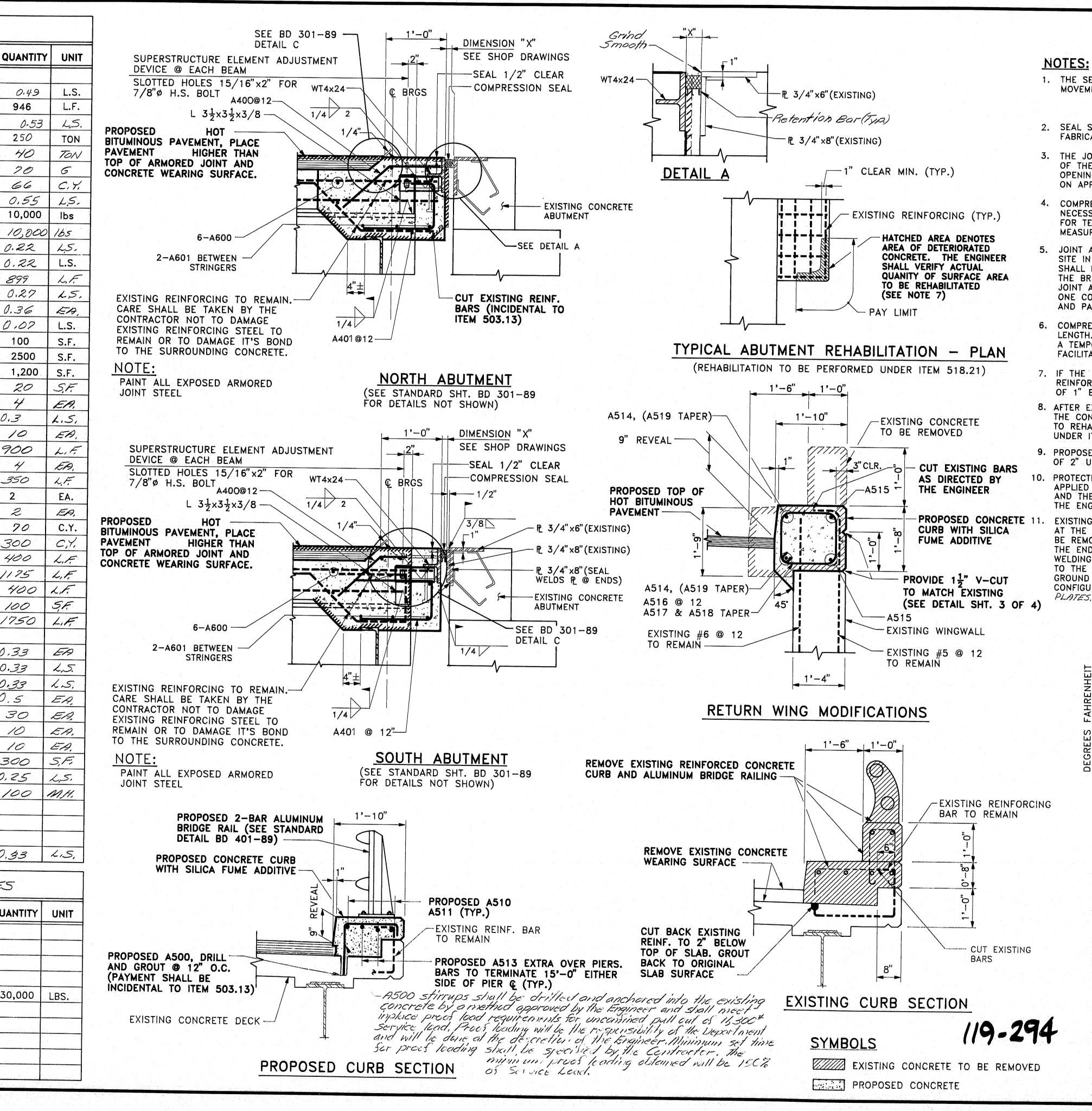
GENERAL PLAN AND SECTIONS

SHEET 1 OF 4



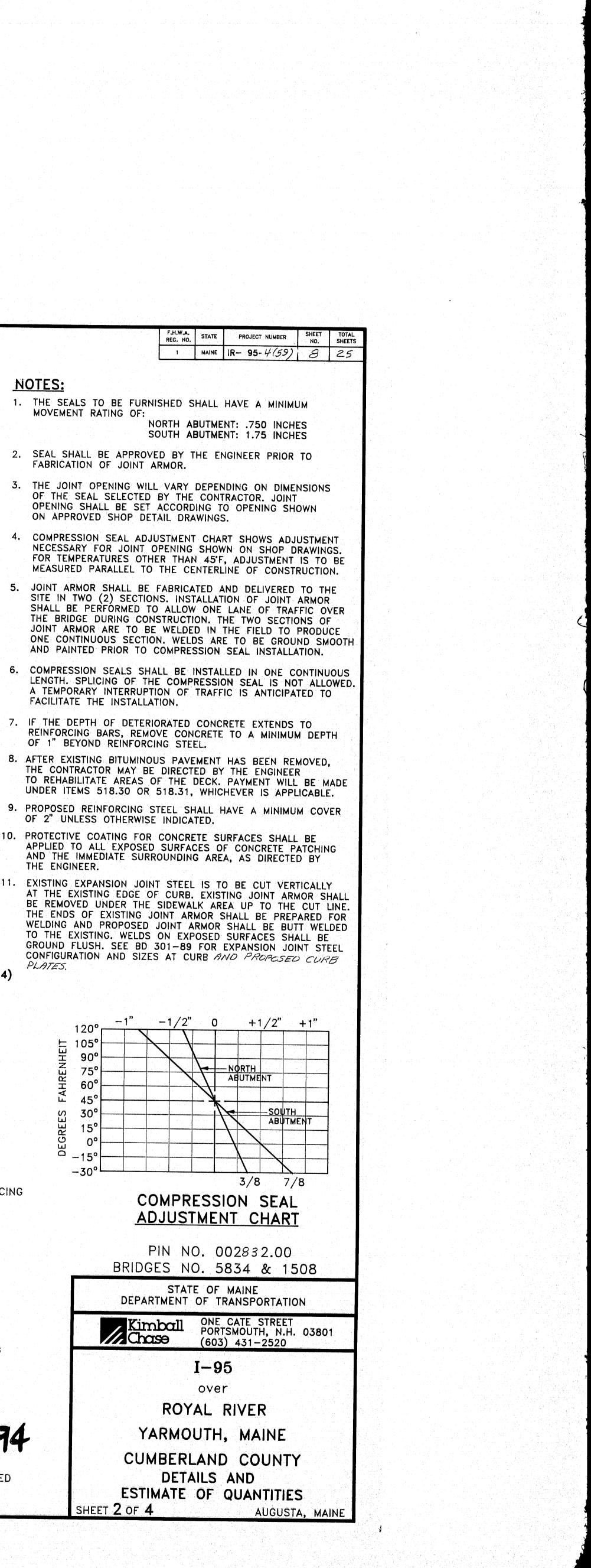
	ESTIMATED QUANTITIES	
ITEM NO.	DESCRIPTION	Q
202.128	REMOVING OF EXIST. CONCRETE CURBS & SIDEWALKS	
202.14	REMOVING EXIST. RAILING - PROP. OF CONTRACTOR	
202.17	Remove Exist. Struct. Concrete	
403.10 403.121	HOT BITUMINOUS PAVEMENT, GRADING D	
409.15	Hot Bituminous Pavement, Grading E - Shim Bituminous Tack Coat Applied	
502.42	Struc, Conc, Rdwy & Sdwlk Slab on Steel Bridges	
502,4711	Silica Fume Additive	2
503.12	REINFORCING STEEL, Fab & Del	
503,13	Reinforcing Steel, Placing	
506.17	Surface Prep. Existing Structural Steel	0
506,172	Field Painting Existing Structural Steel	0
507,092 508,13	Aluminum Bridge Railing, 2-Bar	
514,06	Membrane Waterproofing Curring Box for Concrete Cylinders	(
515.21	PROTECTIVE COATING FOR CONCRETE SURFACES	0
518.21	REHABILITATION OF STRUCTURAL CONCRETE SUBSTRUCTURE	$+\omega$
518.30	REHAB. OF STRUC. CONC. SLAB - TO REINFORCING STEEL	
518.31	REHAB. OF STRUC. CONC. SLAB - TO BELOW REINF. STEEL	
518,32	Rehab. of Struc. Conc. Slab - To Full Depth	
520,2402	Bridge Joint Modification I-95/Royal River	
526,301	Temporary Concrete Barrier	0.
527.32 606.364	Portable Crash Barrels Guardrail-Remove, Modify, and Reset, Type 36	
	Replace Unusable Existing Guard Rail Post	9
and the second	Guardrail Type 3~ Single Rail	
	Widen Shoulder for Breakaway Cable Terminal	+
the second se	Breakaway Cable Terminal	
610.08	Plain RIP RAP	
	Heavy Rip Rap	
	6 Inch Solid White Pavement Marking Line	3
	6 Inch Broken White Pavement Marking Line	11
A set of the set of	Ench Solid Yellow Pavement Marking Line Removing Pavement Markings	
	Temp, 6' Plastic Pave, Marking Line, Yellow or White	/
39.18	Field Office Type A	0.
39.22	Testing Facilities Bituminous Mixes	0.
	Testing Facilities Concrete	0.
	Flashing Arrow Board	0.
	Type I Barricade	
52,33	Drum	
	Cone Construction Signs	
	Maint. of Traffic Control Device	3 0,
	Flagger	
54.10	Moblization	0.
	Fermonte ne luna	
<u></u>	ESTIMATE OF LUMP SUM QUANTITI	Æ
EM NO.	DESCRIPTION	QUA
06.172 F	TELD PAINTING EXISTING STRUCTURAL STEEL	430
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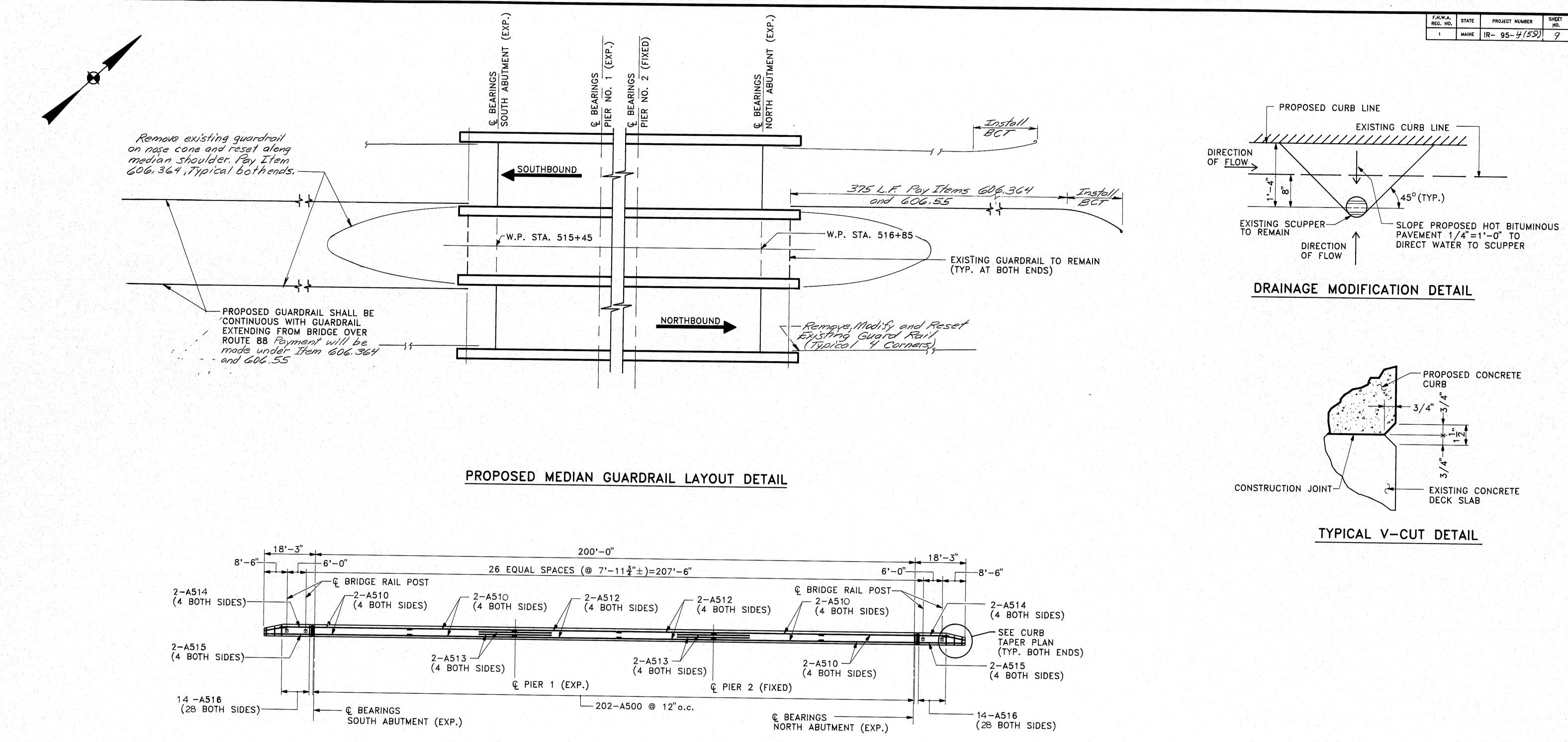
PROJECT DESIGN ENGINEER	NGINEER	β	DATE
	DESIGN- DETAILED_	P. ROSS A. WHITE	6-13-90
ANS	CHECKED_	S. McNALLY	7-2-90
	REVISIONS		
	FIELD CHANGES		

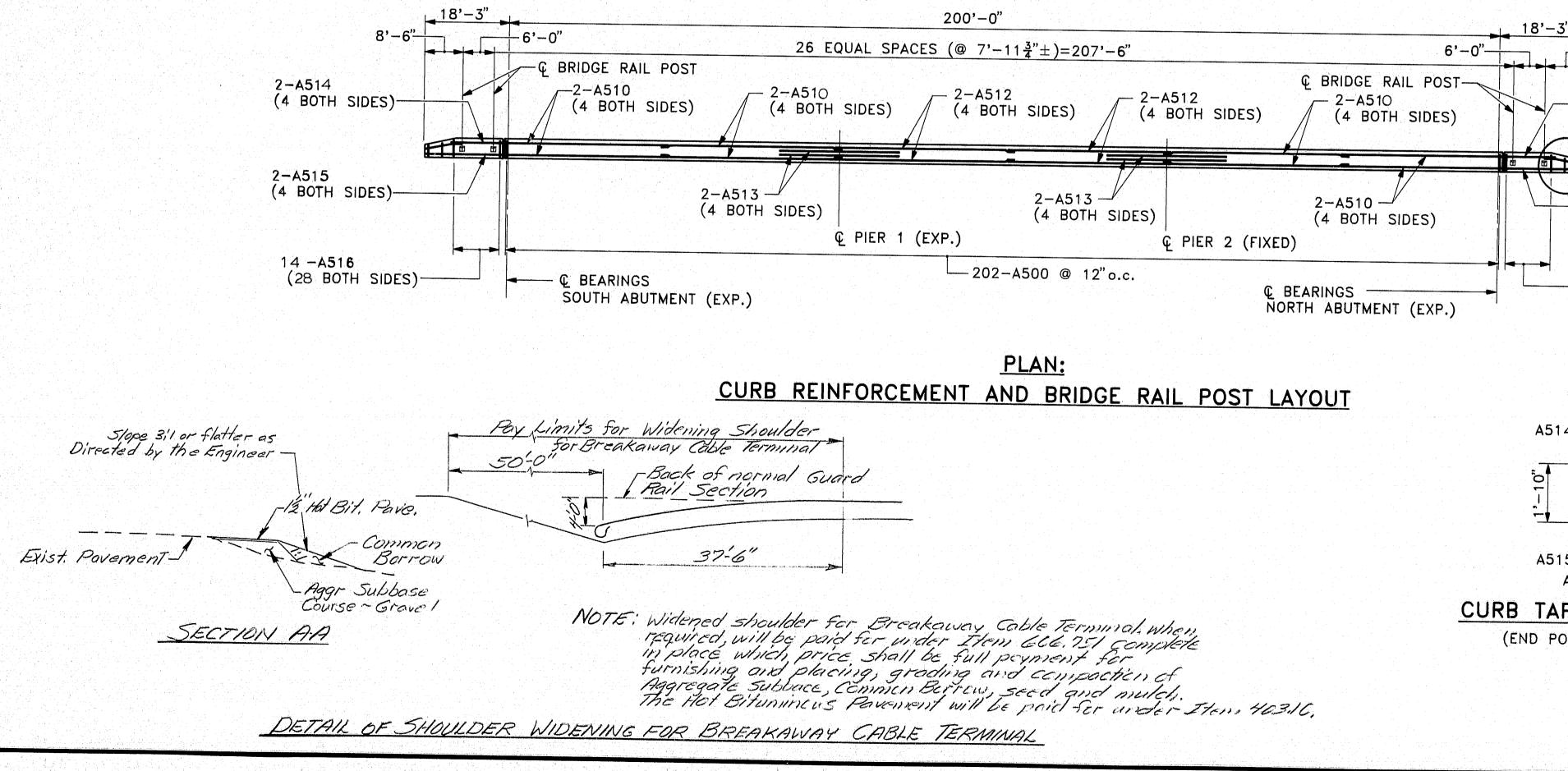


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	F.H.W.A. REG. NO.	STATE	PROJECT NUMBER	
	1997 <b>- 1</b> 997 - 19	MAINE	IR- 95-4(59)	

- 1. THE SEALS TO BE FURNISHED SHALL HAVE A MINIMUM MOVEMENT RATING OF:
- 2. SEAL SHALL BE APPROVED BY THE ENGINEER PRIOR TO FABRICATION OF JOINT ARMOR.
- OF THE SEAL SELECTED BY THE CONTRACTOR. JOINT OPENING SHALL BE SET ACCORDING TO OPENING SHOWN ON APPROVED SHOP DETAIL DRAWINGS.
- 4. COMPRESSION SEAL ADJUSTMENT CHART SHOWS ADJUSTMENT
- FACILITATE THE INSTALLATION.
- 7. IF THE DEPTH OF DETERIORATED CONCRETE EXTENDS TO OF 1" BEYOND REINFORCING STEEL.
- THE CONTRACTOR MAY BE DIRECTED BY THE ENGINEER
- OF 2" UNLESS OTHERWISE INDICATED.
- 10. PROTECTIVE COATING FOR CONCRETE SURFACES SHALL BE AND THE IMMEDIATE SURROUNDING AREA, AS DIRECTED BY THE ENGINEER.



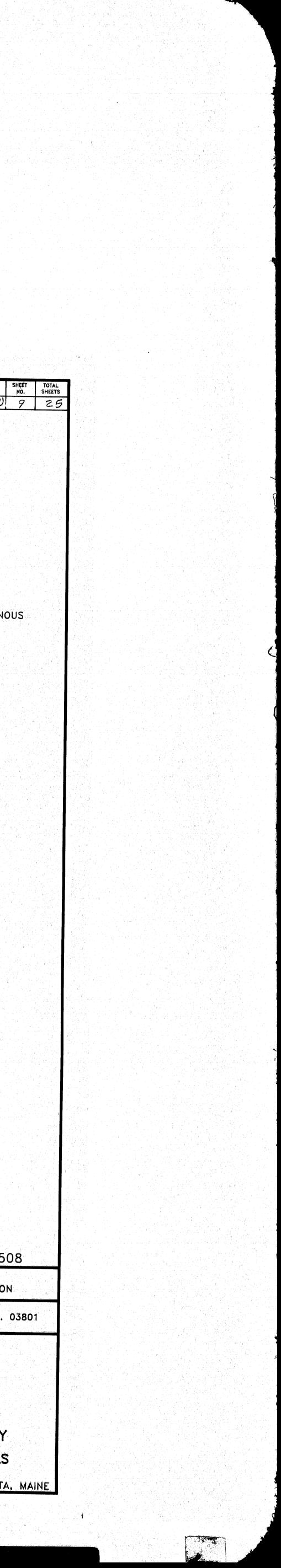




PROJECT DESIGN ENGINEER		λθ	DATE
DESIGN- DETAILED	ED	P. ROSS A. WHITE	6-13-90
DLANS   CHECKED		S. McNALLY	7-2-90
REVISIONS			

2-A514 (4 BOTH SIDES)	
SEE CURB TAPER PLAN (TYP. BOTH ENDS)	
514 - 2 - A519	PIN NO. 002832.00 BRIDGES NO. 5834 & 150
	STATE OF MAINE DEPARTMENT OF TRANSPORTATION
A518	Kimball ONE CATE STREET PORTSMOUTH, N.H. 0 (603) 431-2520
A516-V - A517	I−95 over
APER REINFORCING PLAN POST STIRRUPS NOT SHOWN)	ROYAL RIVER
	YARMOUTH, MAINE
	CUMBERLAND COUNTY
119-29	MISCELLANEOUS DETAILS
11.7 $-$	SHEET 3 OF 4 AUGUSTA,
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F.H.W.A. REG. NO.	STATE	PROJECT NUMBER
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۸512	16	41'-8"	HORIZ. CURB											A400			V	1
A513	16	30'-0"	HORIZ. CURB											A401	128	2'-7"	SB	
A514	16																	
		13'-9"	HORIZ. RETURN WING											A500	808	$3' - 2\frac{3}{4}''$	S	
A515	16	16'-8"	HORIZ. RETURN WING				en la construction de la Construction Record de la construction de la cons							A516	112	6'-3"	Н	
A600	24	31'-0"	JOINT MODIFICATION											A517	8	5'-5"	Н	-
A601	32	7'-3"	JOINT MODIFICATION											A518		4'-7"		-
	END	POST	ne e construction de la construction							<u></u>					<u></u>		H H	_
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	ander and the second se													EP502		4'-7"	S	-
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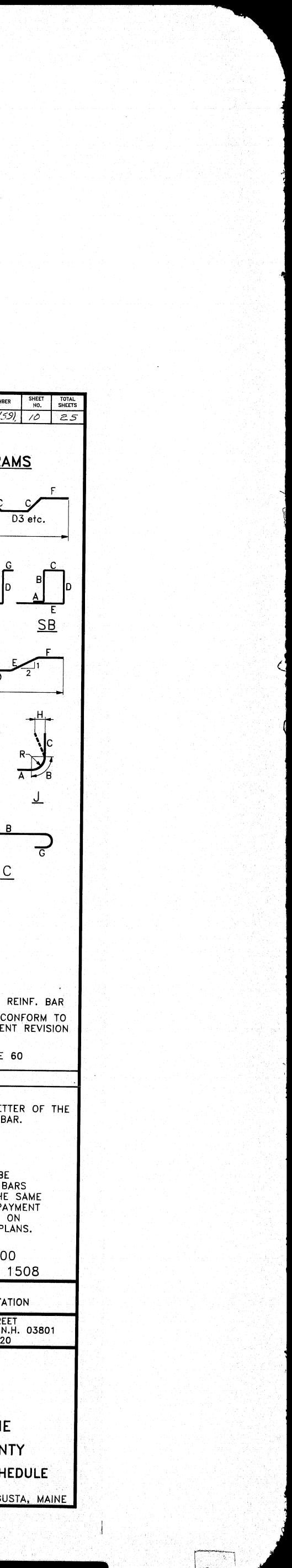
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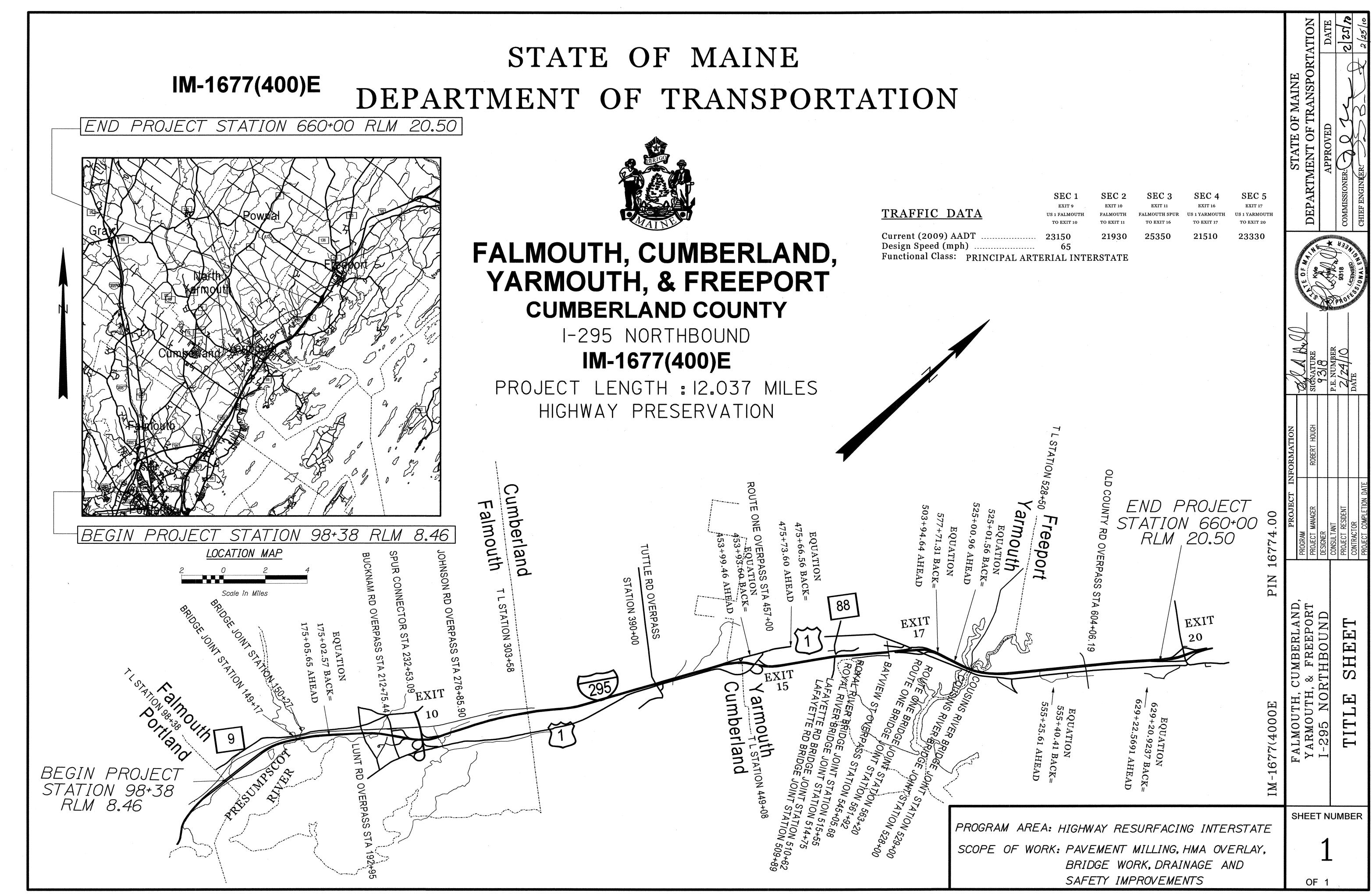
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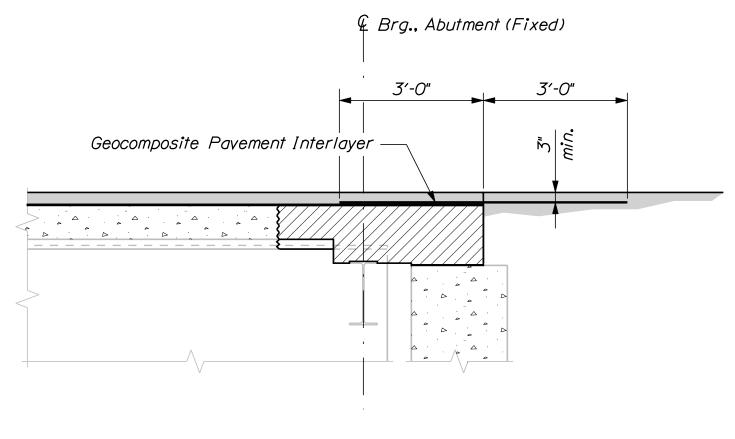
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	0'-6"	0'-9"	1'-4"						EXPANSION JOINT	$\begin{array}{c c} & H & C \\ \hline D1 & D2 \\ \end{array} \begin{array}{c} 1 \\ 1 \\ D2 \end{array}$
,,	<b>1'-5</b> "	0'-5"							VERTICAL CURB	<u> </u>
	1'-4"	1'-4"	1'-4"	·	$0'-5\frac{1}{2}"$				RETURN WING	
,,,	1'-4"	-			$0'-5\frac{1}{2}"$				RETURN WING	
-	1'-4"	0'-6"	1'-4"		$0'-5\frac{1}{2}"$				RETURN WING	$\begin{array}{c c} \hline C & D & \overline{A} & \overline{C} & \overline{C} \\ \hline \underline{HB} & \underline{H} & \underline{S} & \underline{SL} \end{array}$
		1'-8"	3'-0"	· · · · · · · · · · · · · · · · · · ·	0'-11"		-		RETURN WING	
1 1	0'-11"	2'-0"	·		0					
	0'-6"	2'-0"			0					
anto a de la composición de la	0'-7"	1'-9"								
	<u>0</u> -7 2'-7"	1'-9"	0		0	0'-8"				
	0'-11"	1'-10"			0					
	0'-6"	1'-10"			0					$\underline{PA}$ $\underline{EP}$ $\underline{PR}$
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										ALL DIMENSIONS ARE OUT TO OUT OF R
										BENDING DETAILS AND HOOKS SHALL CO THE RECOMMENDATIONS OF THE CURREN
										OF ACI STANDARD 318. REINFORCING BAR: ASTM A615 GRADE
										GENERAL NOTES
										<ol> <li>FIRST DIGIT(S) FOLLOWING THE LETT MARK INDICATES SIZE OF REINF. BA MARK (A502) BAR SIZE-#5</li> </ol>
:							<b></b>	an a san sa		MARK (P1001) BAR SIZE-#5 MARK (P1001) BAR SIZE-#10 MARK (S603) BAR SIZE-#6
			41				alada barra da a fa sport ( r.g. 1) a fandarada	anne a that a a a a far a searchadh		2. EACH TRUSS BAR, TYPE B, MAY BE REPLACED BY TWO (2) STRAIGHT BA
	19-20-20 - 20-20-20-20-20-20-20-20-20-20-20-20-20-2	· · · · · · · · · · · · · · · · · · ·			namen an		14 Mar 2010 - D. (19. 7)			(ONE TOP & ONE BOTTOM) OF THE BAR SIZE AS THE TRUSS BAR. PAY
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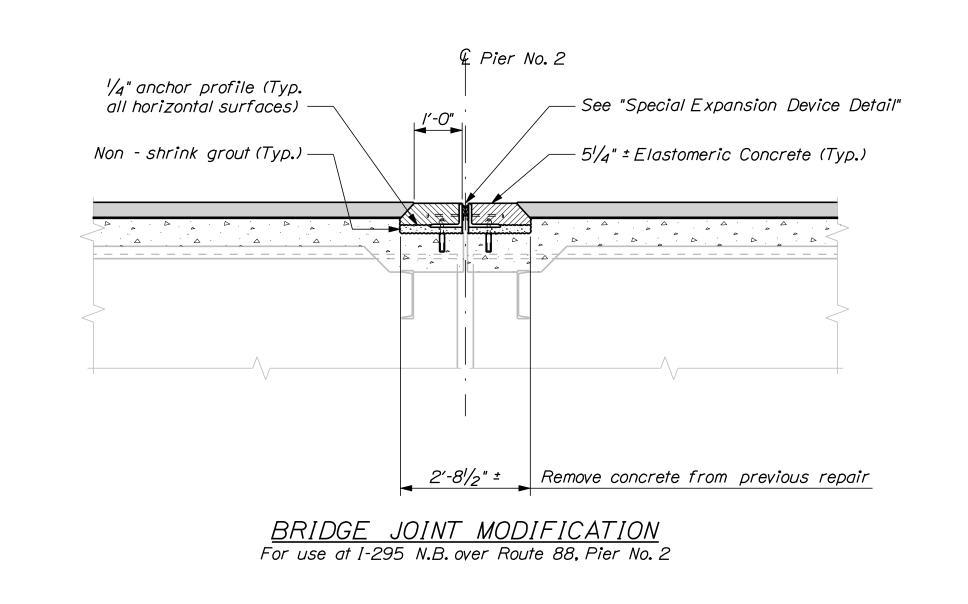




		ESTIMATED BR	IDGE QUANTITIES				·	
ITEM NO.	DESCRIPTION	QUANTITY	QUANTITY	QUANTITY	QUANTITY	QUANTITY	QUANTITY	UNIT
		Presumpscot River Bridge No. 5828	Route 88 Bridge No. 5832	Royal River Bridge No. 5834	U.S. Route I Bridge No. 5833	Cousins River Bridge No.1137	Total	
515.21	PROTECTIVE COATING FOR CONCRETE SURFACES						/	LS
518.50	REPAIR OF UPWARD FACING SURFACE TO RESTEEL	25	25	25	25	25	125	SF
518.51	REPAIR OF UPWARD FACING SURFACE TO BELOW RESTEEL	10	10	10	10	10	50	SF
5/8.60	REPAIR OF VERTICAL SURFACES < 7.9 IN.	10	10	10	10	10	50	SF
518.61	REPAIR OF VERTICAL SURFACES > 7.9 IN.	3	3	3	3	3	/5	СҮ
520.24	BRIDGE JOINT MODIFICATION		1				/	ΕA
520.241	BRIDGE JOINT MODIFICATION TYPE I	1	1	1	2	1	6	ΕA
520.242	BRIDGE JOINT MODIFICATION TYPE 2	1					/	ΕA
520.243	BRIDGE JOINT MODIFICATION TYPE 3			1			/	ΕA
520.26	LONGITUDINAL BRIDGE JOINT MODIFICATION	5	2	2	2	2	/3	LF
526.34	PERMANENT CONCRETE TRANSITION BARRIER	4	4	4	4	4	20	ΕA
606.1721	BRIDGE TRANSITION - TYPE I	4	4	4	4	4	20	EA
	Note: Estimated Quantitie	s for each bridge	are provided here f	or reference purpos	ses only.			







Estimated Bridg I-295 N.B. over I-295 N.B. over I-295 N.B. over Typical Transitic Cousins River 7 Typical Details \_

### <u>MATERIALS</u>

Concrete (Unless noted otherwise) Concrete (Curbs & Transition Barriers) Reinforcing Steel Structural Steel: All Material ASTM A 36/A 36M

### BASIC DESIGN STRESSES

Concrete Reinforcing Stee

### MAINTENANCE OF TRAFFIC

Contractor.

### GENERAL CONSTRUCTION NOTES

I. Bidders and Contractors may obtain a copy of the existing bridge plans by faxing a Request for Information to the Bid Contact Person. The plans are reproductions of the original drawings as prepared for the construction of the bridge. It is very unlikely that the plans will show any construction field changes or any alterations which may have been made to the bridge during its life span.

2. All dimensions based on or relating to the existing bridges shall be verified in the field by the Contractor, i.e., existing joint opening, joint length and backwall width.

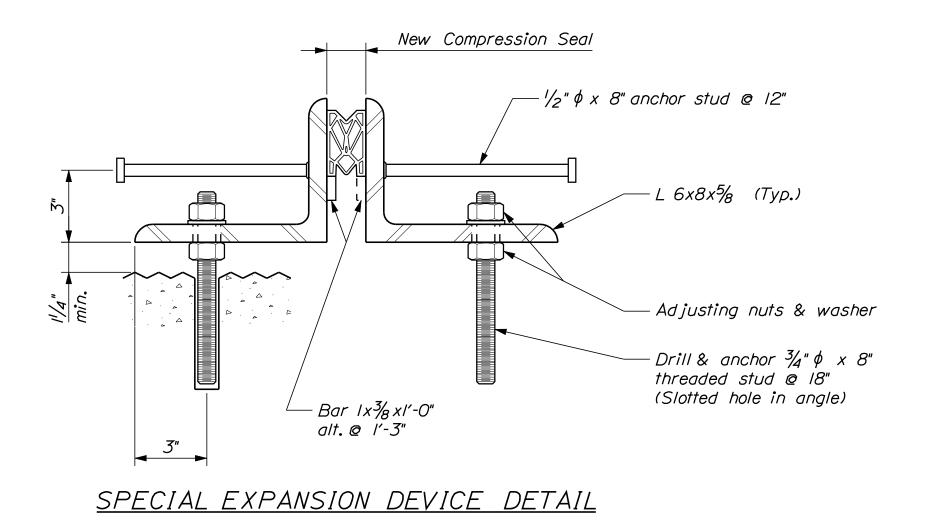
3. Payment for removing concrete end posts will be considered incidental to related Contract items.

4. Reinforcing Steel Schedules will be the responsibility of the Contractor. Refer to Subsection 503.03 of the Standard Specifications for more information. Payment for all work associated with developing reinforcing steel schedules will be considered incidental to related Contract items.

5. Granite curb salvaged from the project site will be substituted for Terminal Curb Type 2 where available. Payment for reuse of granite curb or for Terminal Curb Type 2 will be considered incidental to Item No. 526.34, Concrete Transition Barrier.

6. Protective Coating for Concrete Surfaces shall be applied to the following areas of new concrete:

All exposed surfaces of concrete curbs, Fascias down to the drip notch, All exposed surfaces of Concrete Transition Barriers, 12 inches below the top of backwalls on the back side.



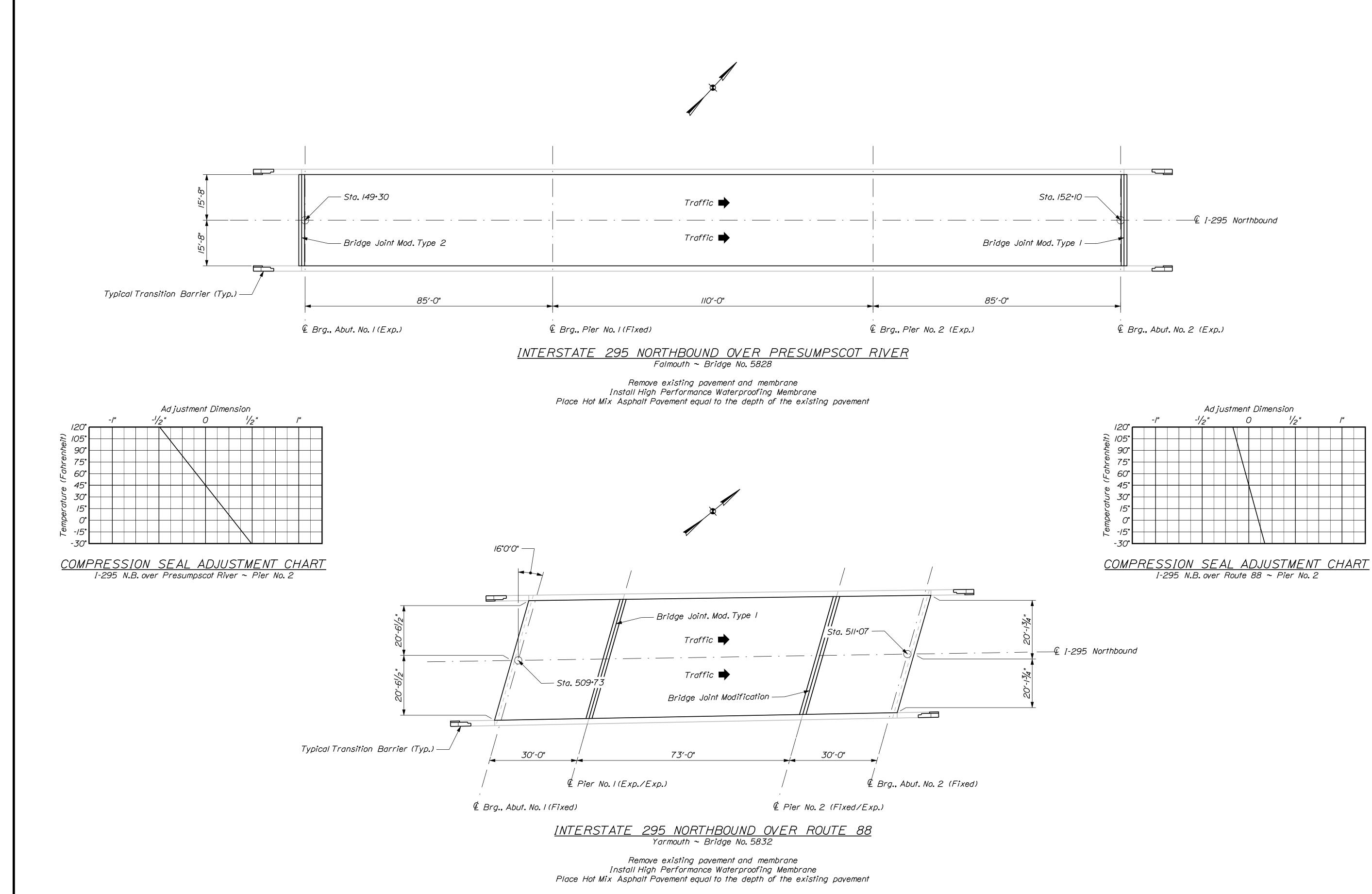
### INDEX OF BRIDGE DRAWINGS

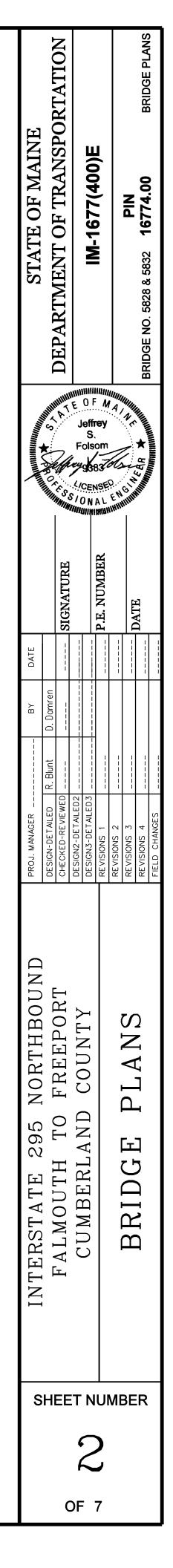
ge Quantities & General Construction Notes	/
Presumpscot River (5828) and Route 88 (5832)	
r Royal River (5834) and U.S. Route 1 (5833)	3
r Cousins River (1137)	4
on Barriers	5
Transition Barriers	6
	7

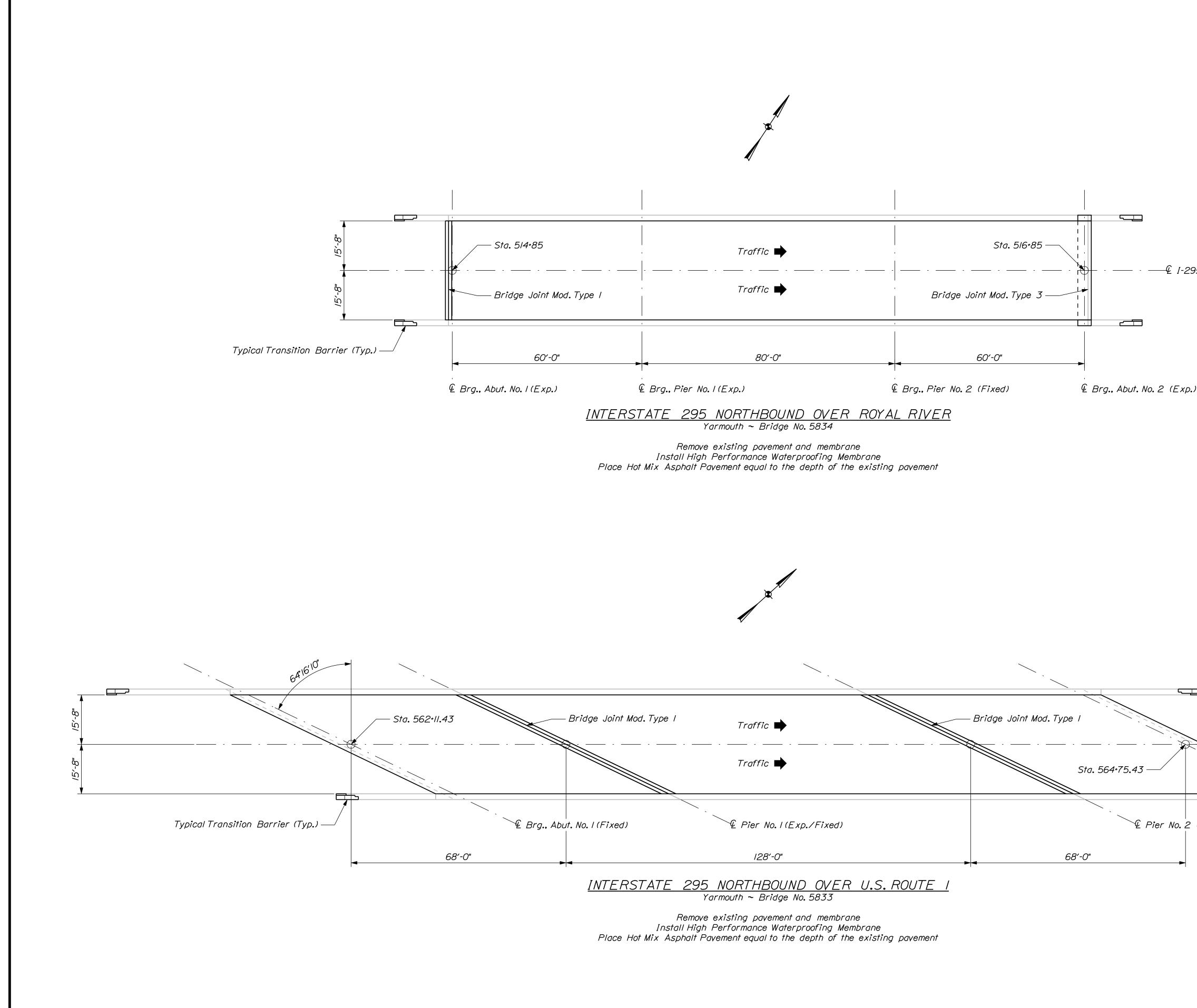
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e/	-	-	-	 	-	-		 -	-	-	-		 -	-	-	-		 -	-	 -		 -	-	fy	=	60,000	psi

The Contractor shall coordinate all maintenance of traffic with the Highway

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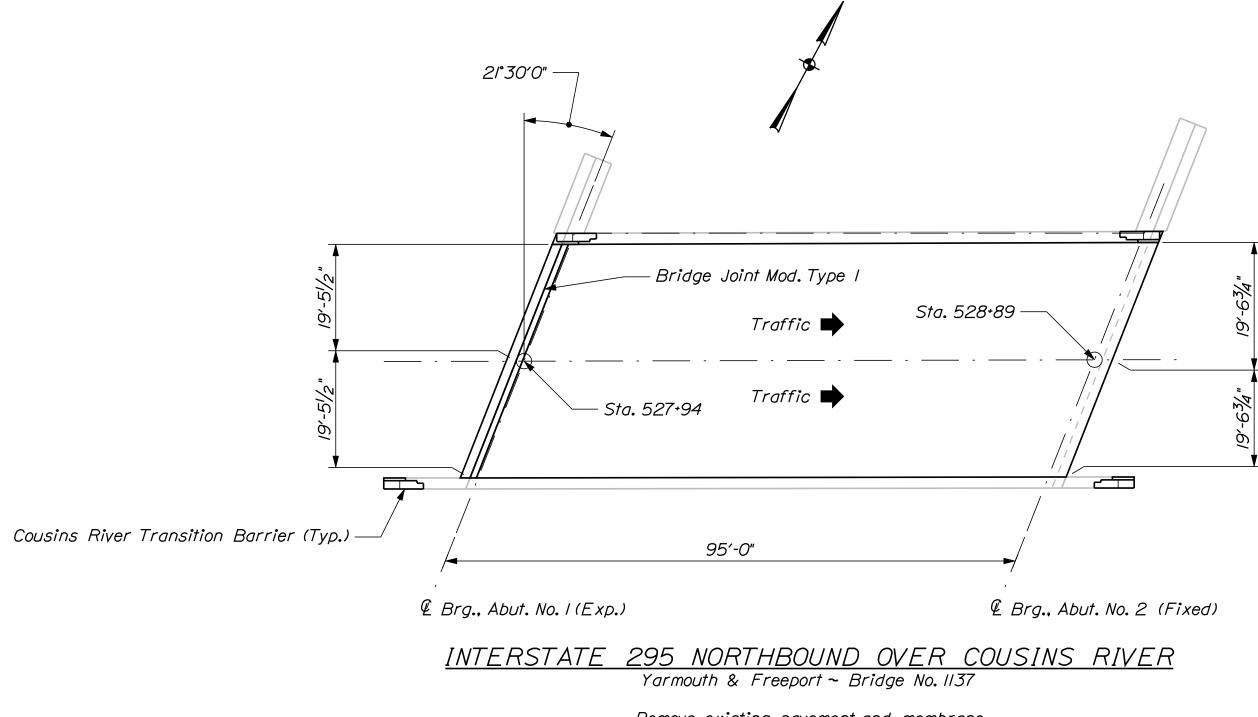
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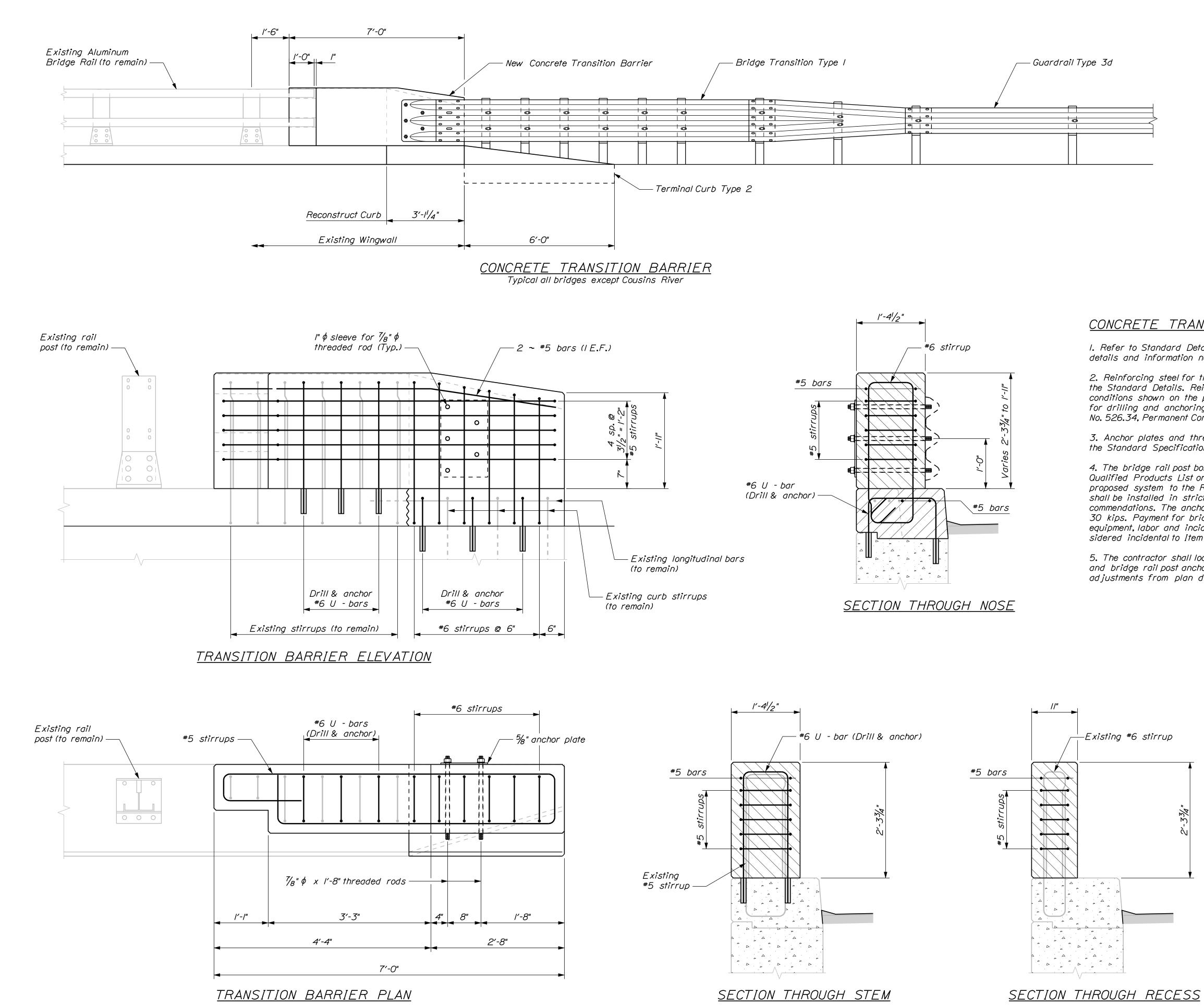
2 (Exp./Exp.) BRDIDGE BRDING BRDIN BRDING BRDING BRDIN BRDING BRDING BRDING BRDING BRDING BRDING BRD	195 Northbound	295 NORTHBOUND H TO FREEPORT	AND COUNTY DESIGN3-DETAILED3	PLANS Revisions 4 DATE
		_	AND	



Date:2/24/2010

Remove existing pavement and membrane Install High Performance Waterproofing Membrane Place Hot Mix Asphalt Pavement equal to the depth of the existing pavement

INTERSTATE 295 NORTHBOUND
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I. Refer to Standard Details Section 526 - Concrete Transition Barrier for details and information not shown.

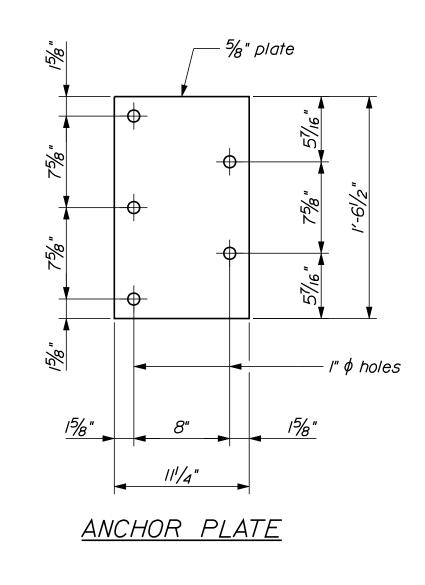
2. Reinforcing steel for the Transition Barriers is based on details shown in the Standard Details. Reinforcing steel shall be modified to fit the details and conditions shown on the plans. Payment for modifying reinforcing steel and for drilling and anchoring bars as shown will be considered incidental to Item No. 526.34, Permanent Concrete Transition Barrier.

3. Anchor plates and threaded rods shall be galvanized in accordance with the Standard Specifications and the Standard Details.

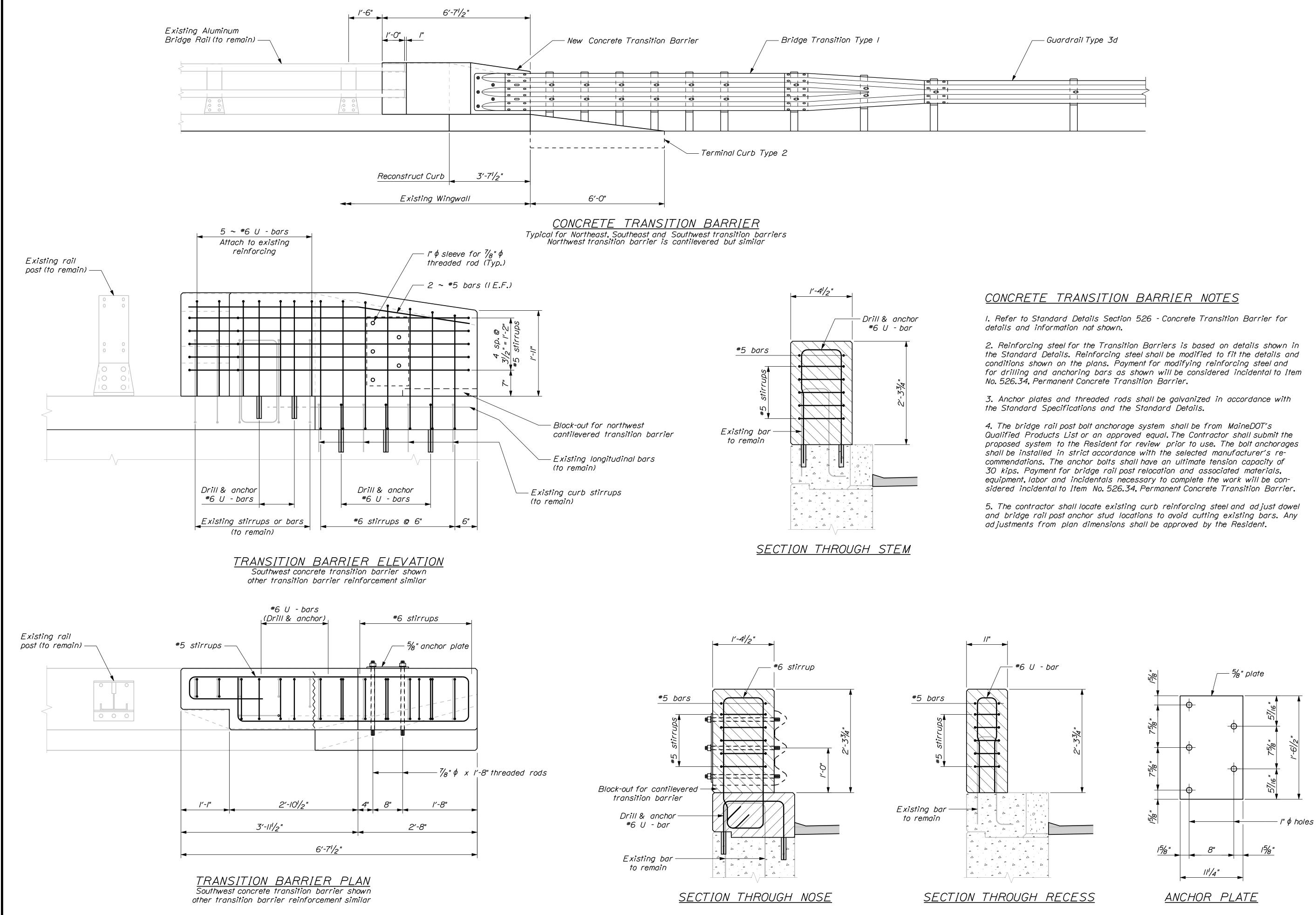
4. The bridge rail post bolt anchorage system shall be from MaineDOT's Qualified Products List or an approved equal. The Contractor shall submit the proposed system to the Resident for review prior to use. The bolt anchorages shall be installed in strict accordance with the selected manufacturer's recommendations. The anchor bolts shall have an ultimate tension capacity of 30 kips. Payment for bridge rail post relocation and associated materials, equipment, labor and incidentals necessary to complete the work will be considered incidental to Item No. 526.34, Permanent Concrete Transition Barrier.

5. The contractor shall locate existing curb reinforcing steel and adjust dowel and bridge rail post anchor stud locations to avoid cutting existing bars. Any adjustments from plan dimensions shall be approved by the Resident.

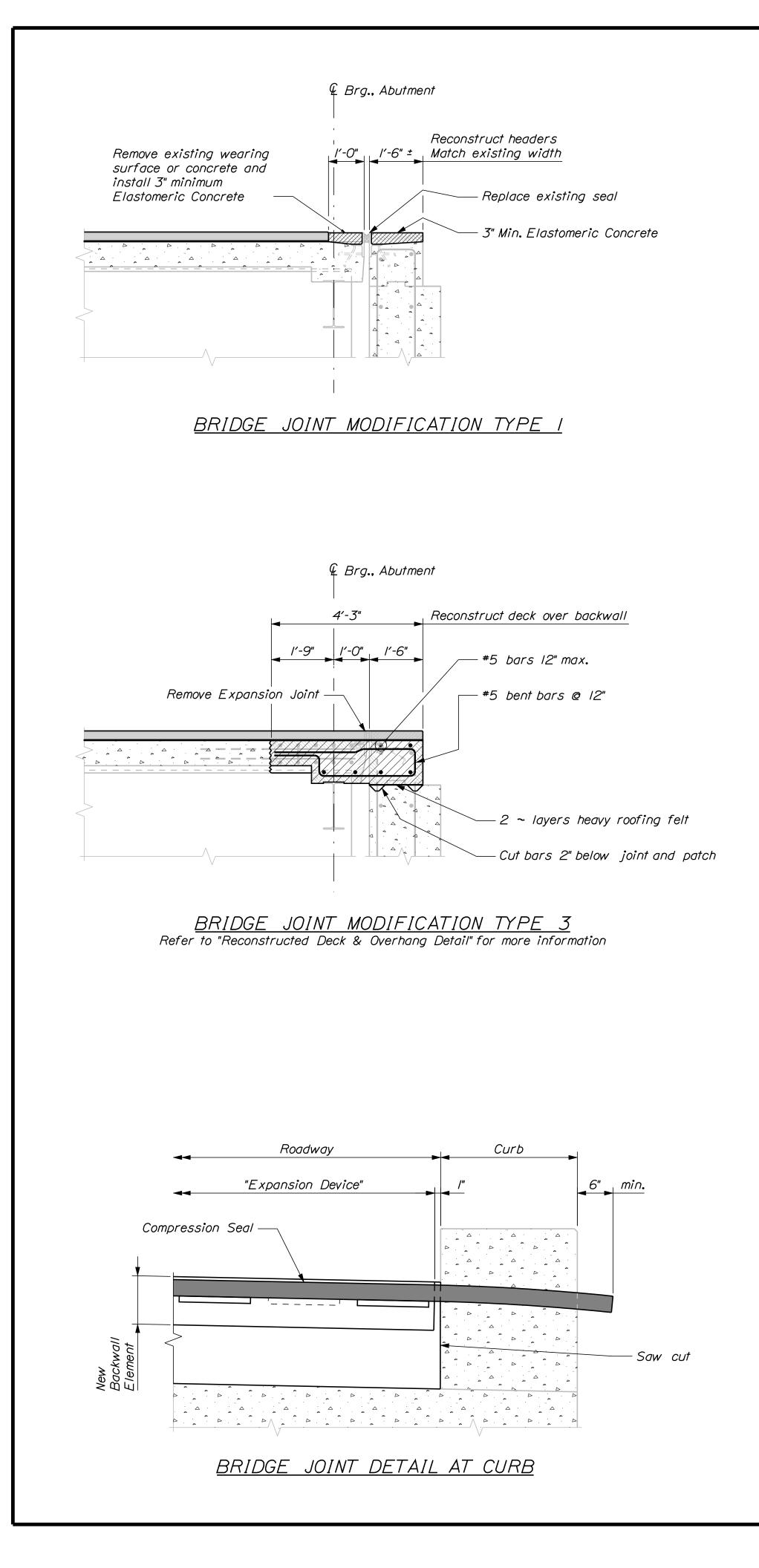


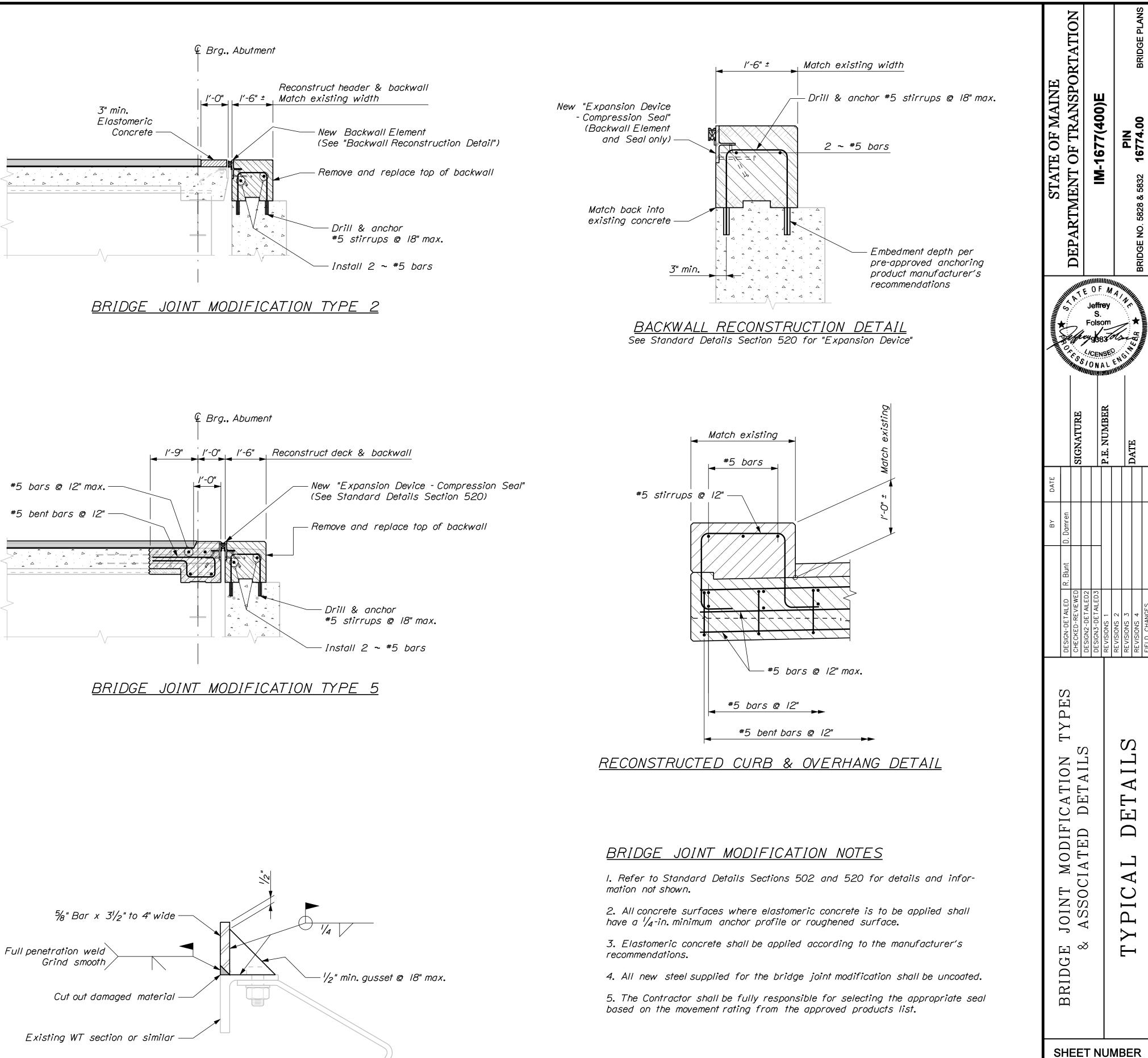


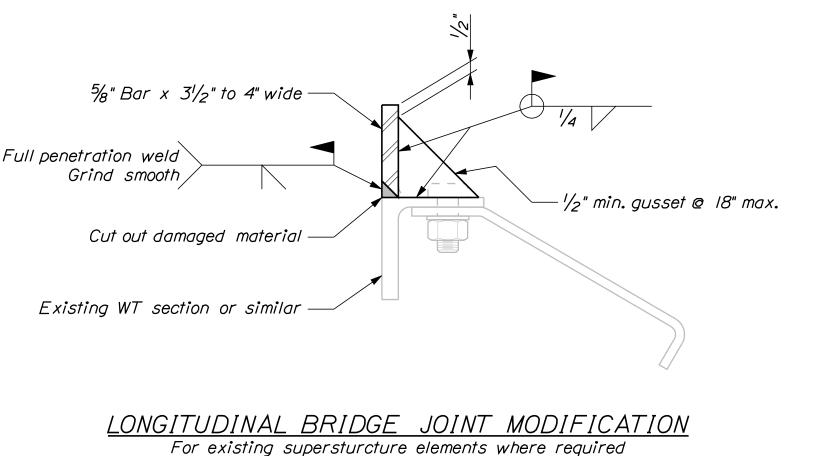
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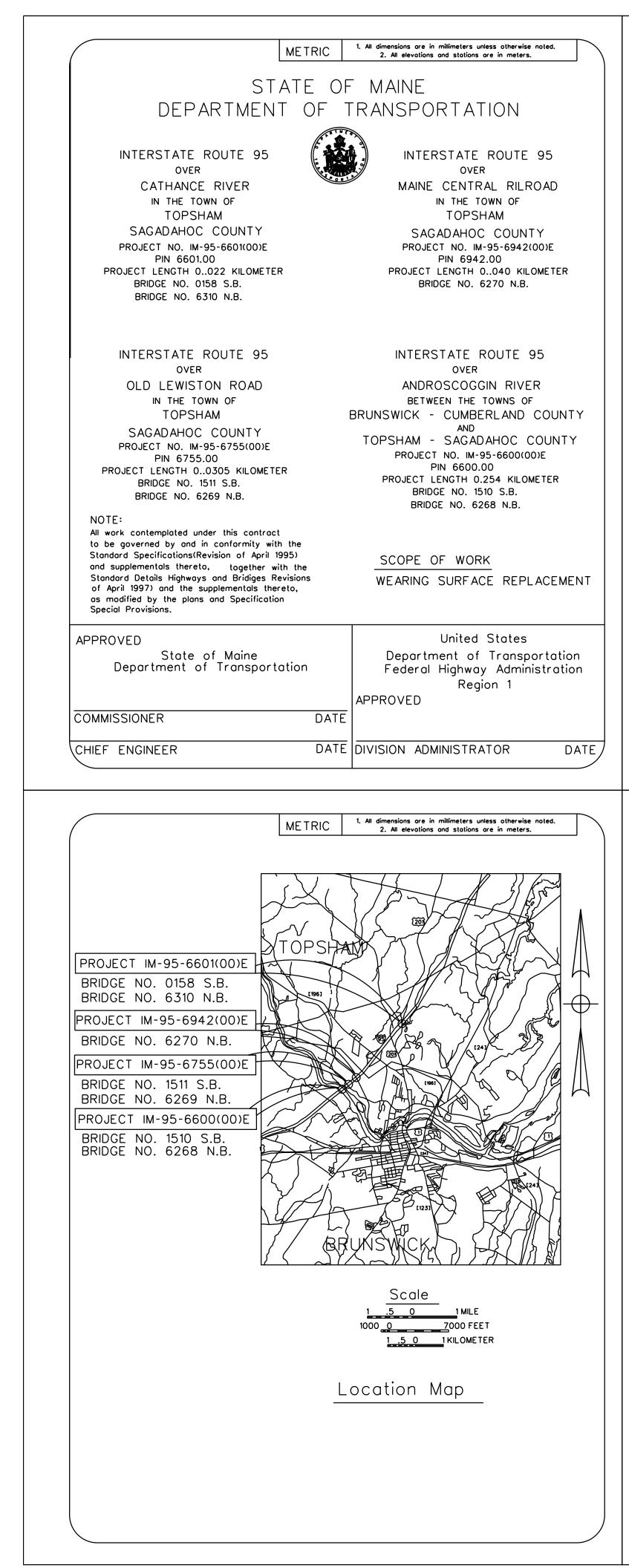


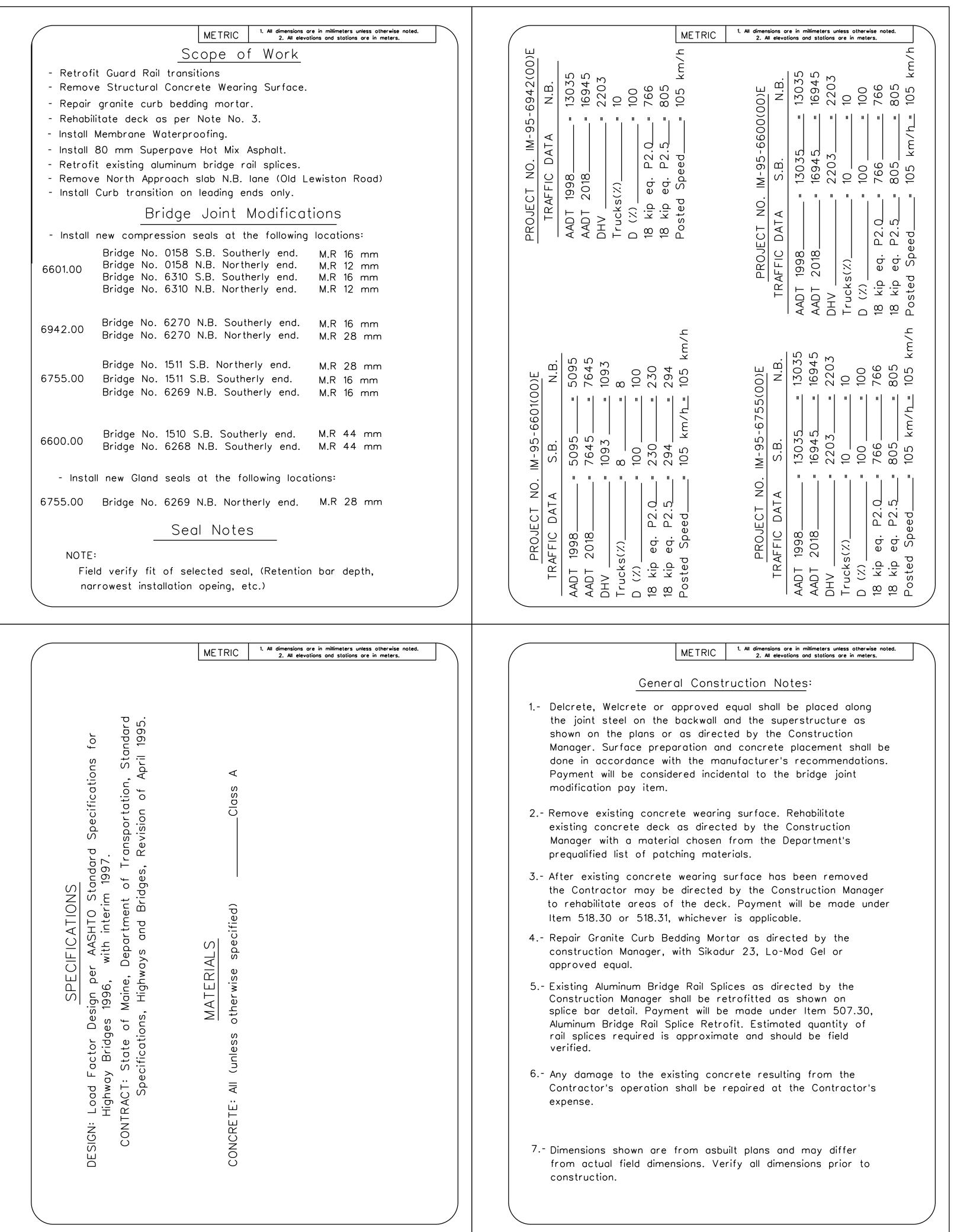


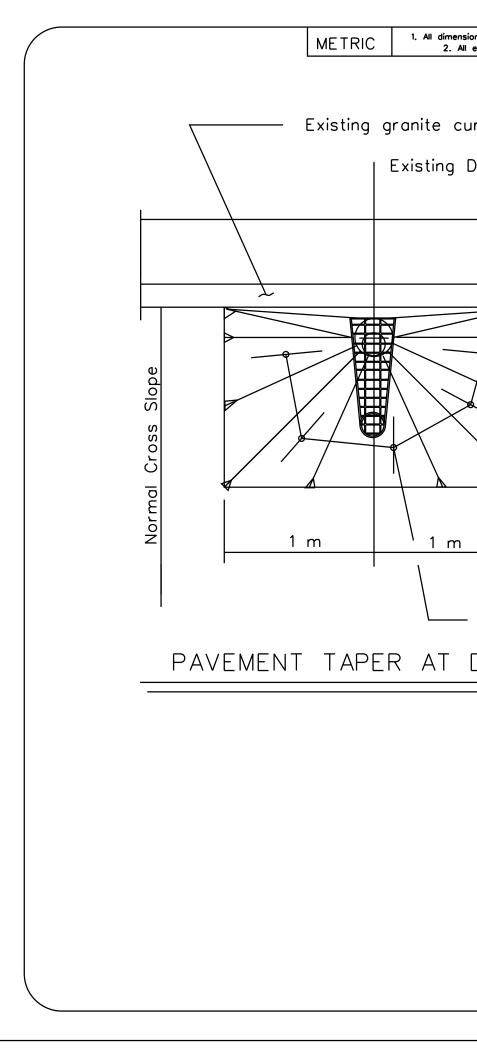


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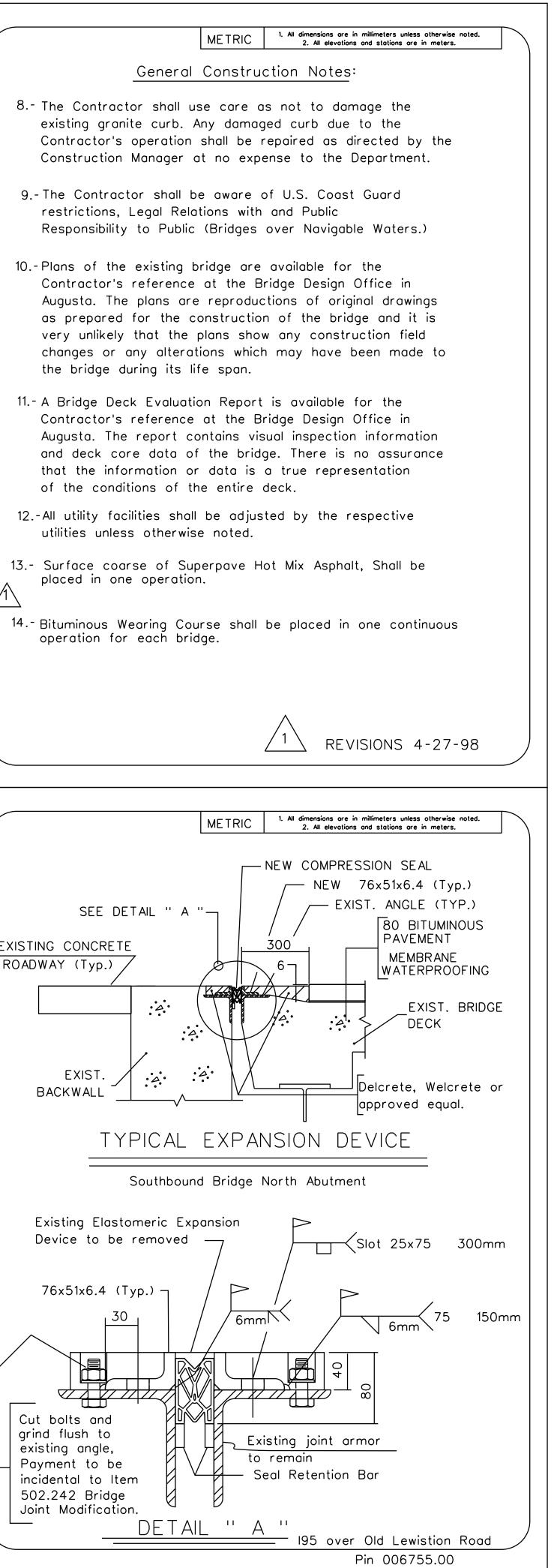


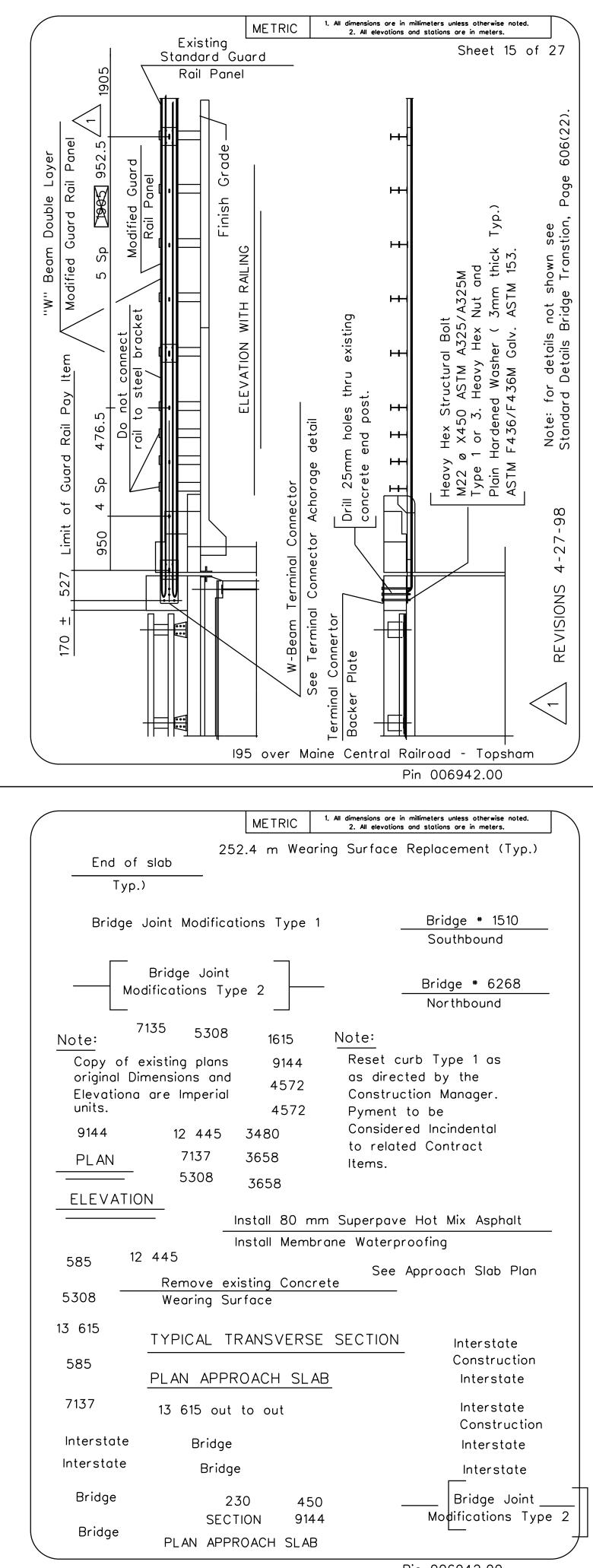




	ESTIMATED QUANTITIES					
ITEM NO.	DESCRIPTION			PIN 06942.0 QUANT	PIN 06601.00 QUANT	) то <sup>-</sup>
202.11	REMOVING PORTLAND CEMENT CONCRETE PAVEMENT					
202.17	REMOVING EXISTING STRUCTURAL CONCRETE (23 M)		1			1
403.207	SUPERPAVE HOT MIX ASPHALT 19.0 MM		48			48
403.210	SUPERPAVE HOT MIX ASPHALT 9.5 MM	1207	150	93	105	155
507.30	ALUMINUM RAIL BAR SPLICE RETROFIT	208	32	12	24	2
508.13	MEMBRANE WATERPROOFING (6,285, 735, 485, 545 m)	.78	.09	.06	.07	
518.30	REHAB. OF STRUCTURAL CONCRETE SLAB - TO REINFORCING STEEL	126	15	10	11	16
518.31	REHAB. OF STRUCTURAL CONCRETE SLAB - TO BELOW REINFORCING STEEL	126	15	10	11	16
518.32	REHABILITATION OF STRUCTURAL CONCRETE SLAB - FULL DEPTH	63	8	5	6	8
518.39	REPAIRING GRANITE CURB BEDDING MORTAR	253	30	21	22	3:
520.241	BRIDGE JOINT MODIFICATION TYPE 1	2	3	2	4	1
520.242	BRIDGE JOINT MODIFICATION TYPE 2		1			1
526.301	TEMPORARY CONCRETE BARRIER, TYPE I	.78	.09	.06	.07	1
527.32	PORTABLE CRASH BARRELS	64	8	4	4	8
606.17	GUARDRAIL TYPE 3B - SINGLE RAIL	61	61	38	61	2
606.25	TERMINAL CONNECTOR			4		
609.237	TERMINAL CURB TYPE 1 - 2.1 m	4	2	2	4	1
627.72	150 mm WHITE PAVEMENT MARKING LINE	2220	1200	720	2200	63
627.74	150 mm YELLOW PAVEMENT MARKING LINE	1110	600	360	1100	317
627.77	REMOVING PAVEMENT MARKINGS	90	80	48	116	3
627.781	TEMPORARY 150 mm PAINTED PAVEMENT MARKING LINE, WHITE OR YELLOW	2200	1200	720	2200	63
639.19	FIELD OFFICE TYPE B	.8	.1	.05	.05	
652.30	FLASHING ARROW BOARD	1	.5	.5		
652.312	TYPE III BARRICADE	6	1	1	1	Q
652.33	DRUM	80	10	5	1	9
652.34	CONE	20	2	1	5	2
652.35	CONSTRUCTION SIGNS	96	12	6	1	11
652.361	MAINTENANCE OF TRAFFIC CONTROL DEVICES	.25	.25	.25	.25	1
652.38	FLAGGER	640	80	40	40	80
659.10	MOBILIZATION	.78	.09	.06	.07	1

ons are in millimeters unless otherwise noted. elevations and stations are in meters.	METRIC <sup>1.</sup> All dimensions are in millimeters unless otherwise noted. 2. All elevations and stations are in meters.	
rb (To Remain) Drain Typical (To Remain)	<u>Maintenance of Traffic</u> 1 During construction one 3.6 m lane will be maintained by	
Biope to drain	<ul> <li>2 Payment for all the work and materials required for the maintenance of traffic, such as temporary concrete barriers, maintenance of traffic control devices, cones, drums, and temporary traffic lights as approved by the Construction Manager will be paid for under the applicable pay items.</li> </ul>	
		<u>_1</u>
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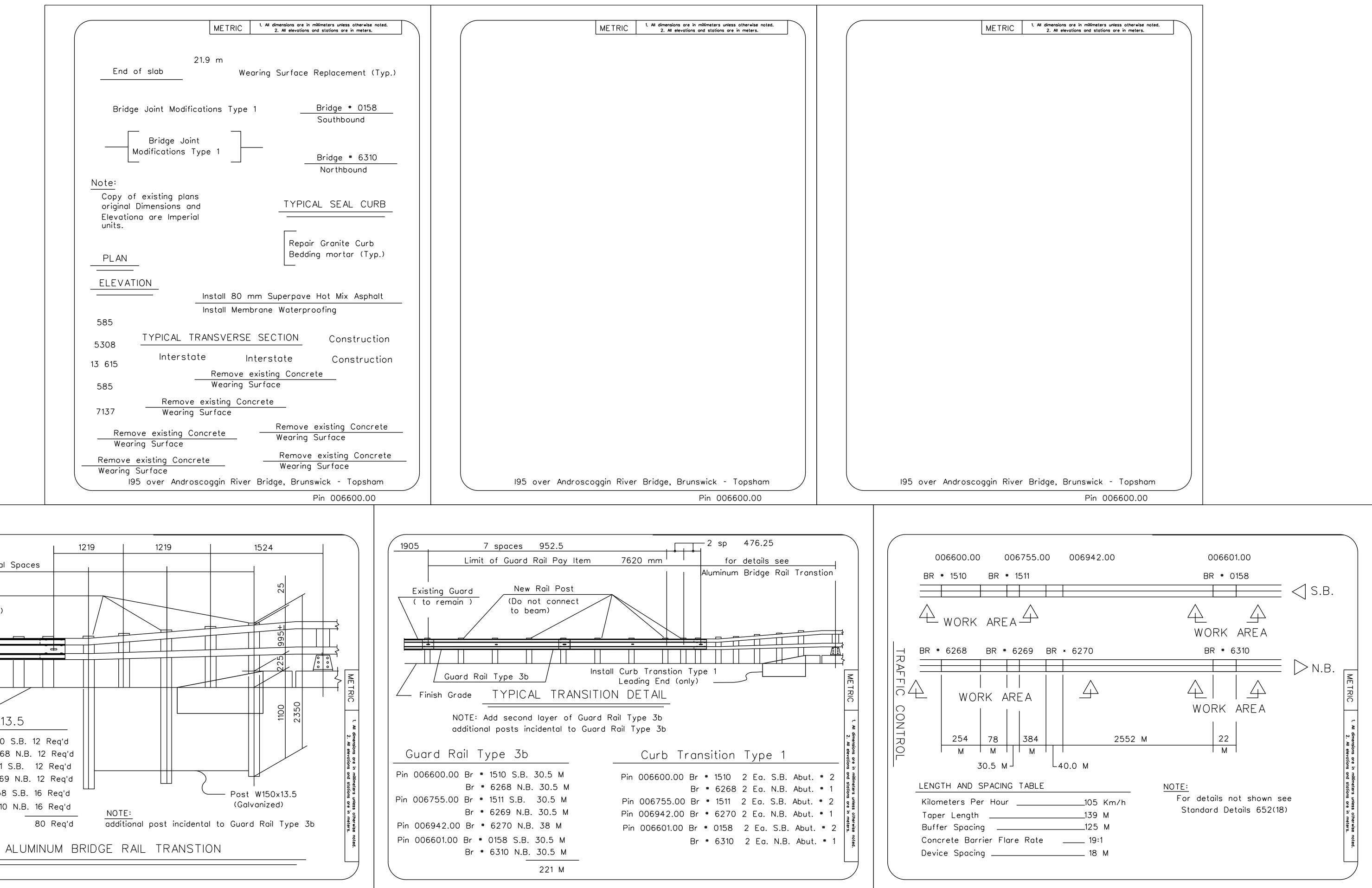


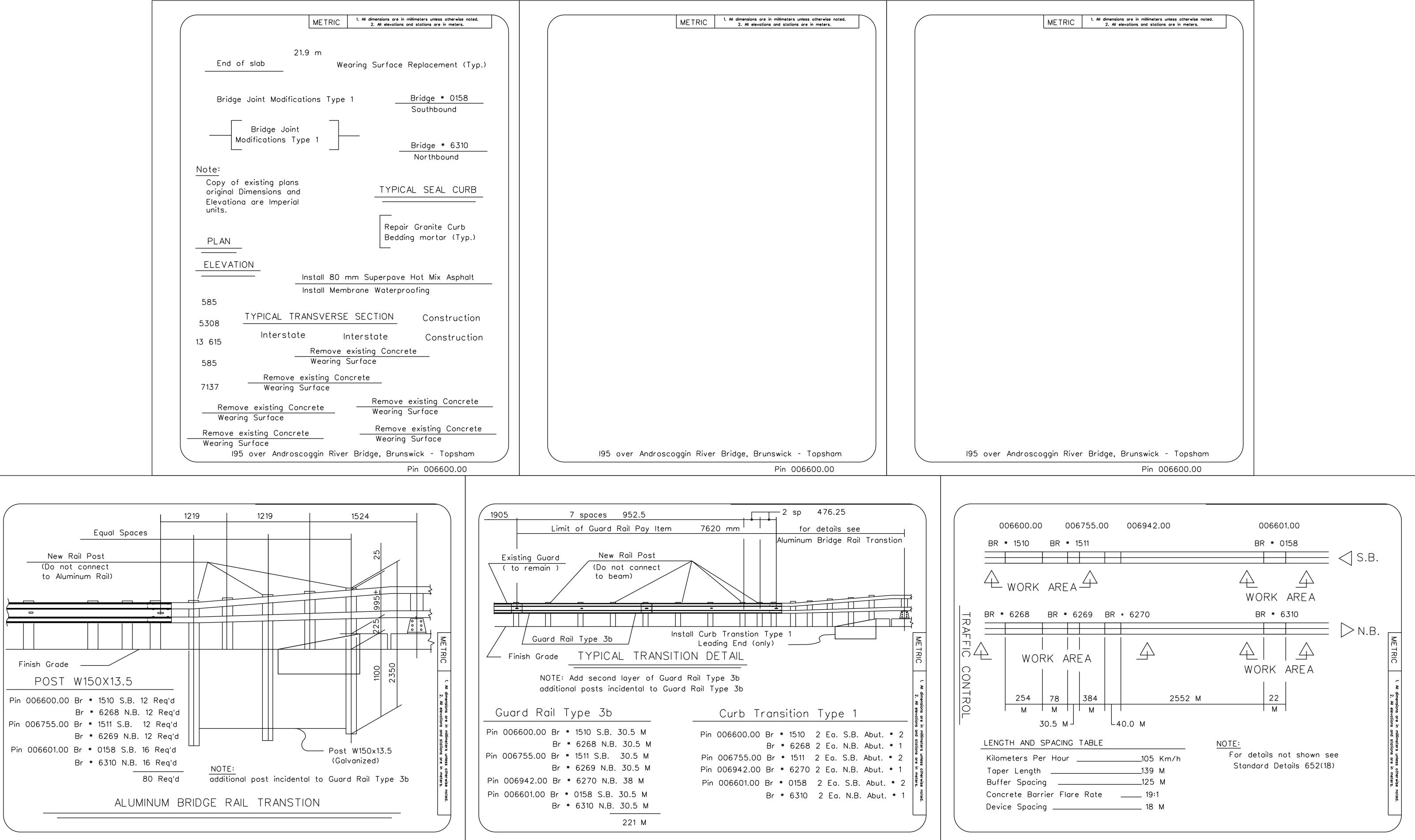


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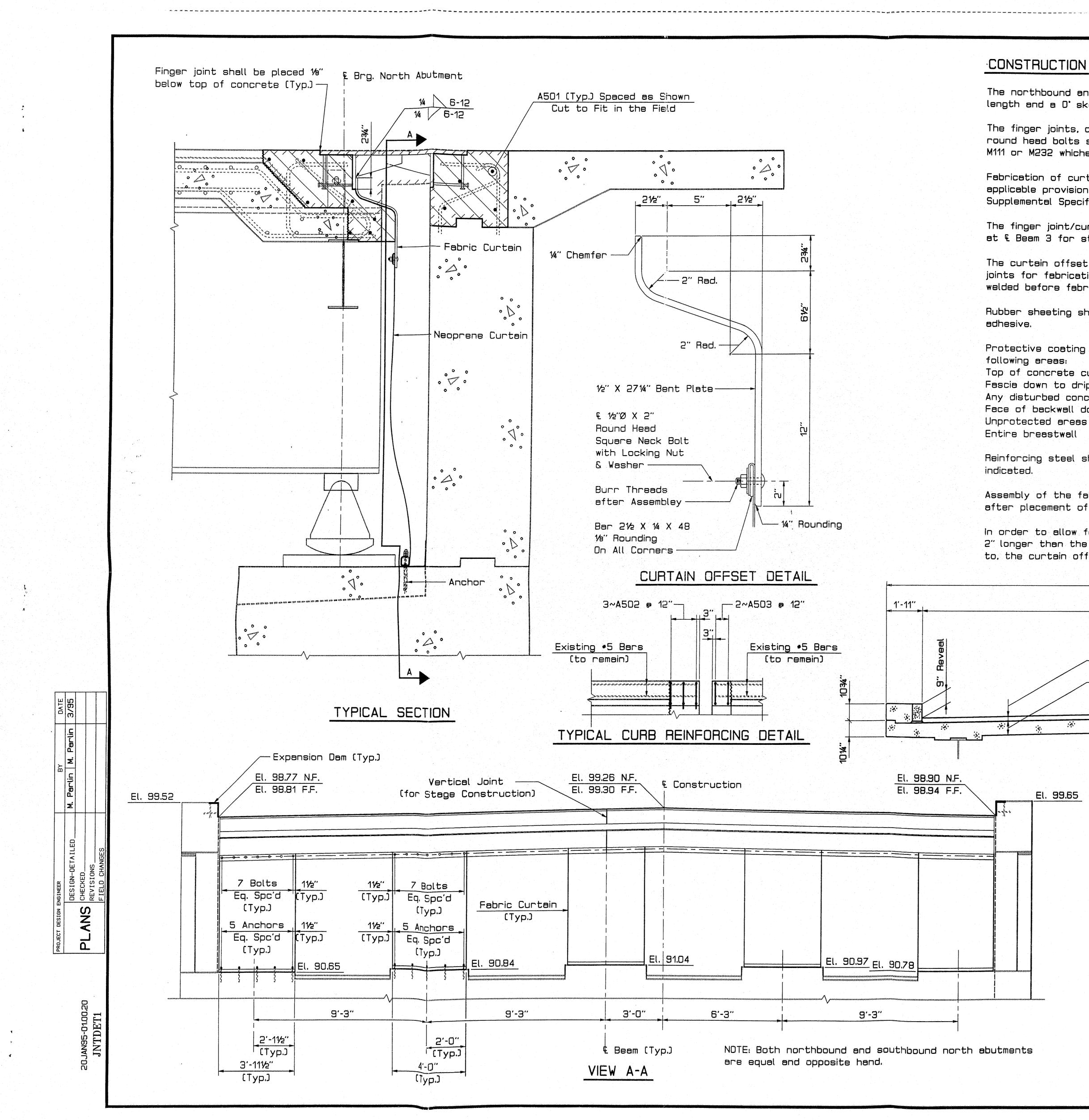
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## CONSTRUCTION NOTES

The northbound and southbound bridges both have a 687' expansion length and a O' skew.

The finger joints, curtain offsets, steel tubing, anchor bolts and round head bolts shall be galvanized in accordance with AASHTO M111 or M232 whichever is applicable.

Fabrication of curtain offsets shall be in accordance with the applicable provisions of Section 504 - Structural Steel and Supplemental Specification 504 - Structural Steel (Welding).

The finger joint/curtain offset system shall have a vertical joint at € Beam 3 for stage construction purposes.

The curtain offset plate may have a maximum of three vertical joints for febrication (bending) purposes. The joints shall be welded before fabrication is complete.

Rubber sheeting shall be bonded to concrete using an approved

Protective coating for concrete surfaces shall be applied to the following areas:

Top of concrete curbs Fascia down to drip notch Any disturbed concrete wearing surface Face of backwall down to bridge seat Unprotected areas of bridge seat

Reinforcing steel shall have a minimum cover of 2" unless otherwise

Assembly of the fabric curtain shall be done at least two days after placement of the concrete.

In order to allow for joint movement, the fabric curtain shall be 2" longer then the distance necessary to reach from, and attack to, the curtain offset and anchor.

## SPECIFICATIONS

for Highway Bridges 1992 and Interim Specifications 1994.

CONSTRUCTION: State of Maine, Department of Transportation, 1990.

### DESIGN LOADING

LIVE LOAD: HS 20-44 (Existing)

## MATERIALS

CONCRETE: Class AASF REINFORCING STEEL: ASTM A615, Grade 60 STRUCTURAL STEEL: ASTM A36 FASTENERS: ASTM A307, Grade A

## BASIC DESIGN STRESSES

CONCRETE: Class AASF, f'c = 5,000 psi REINFORCING STEEL: fy = 60,000 psi STRUCTURAL STEEL: ASTM A36. Fy = 36.000 psi ASTM A307, Fv = 14,000 psi

## SCOPE OF WORK

## MAINTENANCE OF TRAFFIC

Maintain a minimum of one 12' lane of traffic.

. Construction

		44'-B"		
	23'-5"		17'-5	5″
	— 3" Reinforced Concrete We	aring Surface		
	— 8½" Structural Concrete	Slab		
	¼"/ft.		¼"/ft	
	346'Ø X 114'' Tapcon         Masonry Anchors         Spc'd • 3''         16'' X 12''         Rubber Sheet         Neoprene Curtain         Acorn Nut         Locking Nut &         Washer         2 X 2 x 346         Structurel         Structurel         Steel Tubing         12'' Ø X 912''         Anchor Bolt         (Drill & Grout)		SVERSE SECTION         STRAIGHT BARS         MARK       NO. LENGTH LOCATION         A501       44       24'-0" Transverse         BENT BARS         MARK       NO. LENGTH TYPE A       B         A502       12       5'-5"       5       6" 1'-5"         A503       B       5'-7"       S      2'-0"         REINFORCING S         C       G	1'
nts	ANCHOR	5" DETAIL		S

