

STATE OF MAINE DEPARTMENT OF TRANSPORTATION



MATERIALS

Concrete: Deck Ends, Backwalls, Curbs & Transition Barriers Class "LP"
 Reinforcing Steel ASTM A 615/A 615M, Grade 60
 Steel Plating ASTM A 572, Grade 50

BASIC DESIGN STRESSES

Concrete, Class "LP" $f'_c = 5,000$ psi
 Reinforcing Steel $f_y = 60,000$ psi
 Steel Plating $f_y = 50,000$ psi

SOUTH PORTLAND & PORTLAND CUMBERLAND COUNTY INTERSTATE 295 SOUTHBOUND BRIDGE JOINT REHABILITATION FEDERAL PROJECT NO. 2361501 PROJECT LENGTH 5.5 mi. BRIDGE NUMBERS: 1513, 6532, 6534, 6533, 6556, 6535, 6536, 6537, 6538, 6539, 6540, 6541, 3088

LIST OF DRAWINGS

Title Sheet	1
General Notes and Construction Phasing	2
Estimated Quantities	3
Plan View and Transverse Section:	
State Route 703 #1513	4
Westbrook Street #6532	5
Fore River #6534	6
PTRR, Fore River #6533	7
Fore River Parkway #6556	8
Congress Street and Park Avenue #6535	9
St. James Street #6536	10
PTRR St. John Street #6537	11
St. John Street #6538	12
Forest Avenue #6539	13
Preble Street #6540	14
Franklin Street #6541	15
Tukeys Bridge #3088	16
Joint Modification Details	17-22
Concrete Transition Barriers	23-25
Joint Modification Temporary Roadway Plate	26
Bridge Phasing	27-39
Traffic Control Details	40
Traffic Control Plan	41-43
I-295 Southbound Detour Plan	44
Fore River Parkway On Ramp Detour Plan	45
Congress Street On & Off Ramp Detour Plan	46
Forest Avenue On & Off Ramp Detour Plan	47
Franklin Street On Ramp Detour Plan	48
Washington Avenue Southbound On Ramp Detour Plan	49
Local Signing Plan	50
Traffic Control Sign Summary	51-52

UTILITIES

Maine Department of Transportation
Portland Terminal Railroad

MAINTENANCE OF TRAFFIC

Extended duration lane closures at Route 703 and Westbrook Street for Phase 1 construction. Night work using interstate closure, lane closures, and two-phase construction for all other locations and phases.

PROJECT LOCATION:	I-295 Between Tukeys Bridge & Exit 1 (Multiple Bridge Locations)
PROGRAM AREA:	Bridge Preservation
OUTLINE OF WORK:	Joint Modifications

STATE OF MAINE DEPARTMENT OF TRANSPORTATION	APPROVED	DATE
COMMISSIONER: <i>[Signature]</i>	[Signature]	2-27-2020
CHIEF ENGINEER: <i>[Signature]</i>		2-27-2020

STATE OF MAINE DEPARTMENT OF TRANSPORTATION PROFESSIONAL ENGINEER	SIGNATURE	P.E. NUMBER	DATE
[Signature]	[Signature]	0671	2/27/2020

PROJECT INFORMATION	PROGRAM	PROJECT MANAGER	DESIGNER	CONSULTANT	PROJECT RESIDENT	CONTRACTOR	PROJECT COMPLETION DATE
Bridge	Mckenzie Kersbergen	Tim Cole	HNTB				

WIN 023615.01

2361501

SOUTH PORTLAND TO PORTLAND CUMBERLAND COUNTY	TITLE SHEET
---	-------------

SHEET NUMBER	1
OF 52	

Date: 1/21/2020

Username:

Division:

Filename: 001_Title Sheet.dgn



GENERAL NOTES

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

2. Project info referred to below may be accessed at the following MaineDOT web address: <http://www.maine.gov/mdot/contractors/>

3. The existing bridge plans may be accessed at the MaineDOT web address. 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.

4. All dimensions, angles and stationing shown on existing plans are taken from as-built construction drawings from 1968 through 1994, 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.

5. Contractor shall note that MaineDOT may have other active projects in the area. Contractor shall coordinate this work and associated traffic control with the other contracts.

6. Quantities included for pay items measured and paid for by Lump Sum are estimated quantities and are provided by MaineDOT for informational purposes only. Lump Sum pay items will be paid for at the Contract Bid amount, with no addition or reduction in payment to the contractor if the actual final quantities are different from the MaineDOT provided estimated quantities, except as follows:

- a. If a Lump Sum pay item is eliminated, the requirements of Standard Specifications Section 109.2, Elimination of Items, will take precedence.
- b. If other Contract Documents specifically allow a change in payment for a Lump Sum pay item, those requirements will be followed.
- c. If a design change results in changes to estimated quantities for Lump Sum pay items, price adjustments will be made in accordance with Standard Specifications section 109.7, Equitable Adjustments to Compensation.

7. Reinforcing steel shall have a minimum concrete cover of 2" unless otherwise noted.

8. Where new pavement joins existing pavement, the existing pavement shall be saw cut or milled along a smooth line to a neat, even, vertical joint, as directed by the Resident. Broken or raveled edges will not be permitted. All work necessary for the preparation of this joint will be considered incidental to the related Contract items.

9. Payment for removing existing concrete end posts will be considered incidental to Item 526.340I Permanent Concrete Transition Barrier - Modified.

10. 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.

11. 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 the related Contract items.

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

13. All existing materials which are removed from the work area shall be removed from the site and properly disposed of by the Contractor. 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 incidental to the cost of the work items for which these removals are required.

14. If the depth of the deteriorated concrete is below the reinforcing steel then remove the concrete to a minimum depth of 1 inch below the bars.

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

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

17. When a new joint is being installed, or an existing joint is being substantially modified, and field conditions permit, the approach side of the joint shall be set 1/8" - 1/4" higher than the departure side of the joint. Under no circumstances shall the departing side of the joint be higher than the approach side of the joint.

18. Deck or backwall repairs located below areas of elastomeric concrete shall be repaired in accordance with Standard Specification 518 and allowed to cure prior to placing elastomeric concrete. The concrete repairs shall be completed to provide an elastomeric concrete thickness of 3". The depth of elastomeric concrete may be increased to 4" maximum only in cases where doing so eliminates the need for patching.

19. Limited field inspections indicate potential for deck end and/or backwall concrete repairs to be required to achieve sound concrete beneath the proposed elastomeric concrete headers. The most significant repairs are anticipated at the following locations: SR 703, Westbrook Street, PTRR Fore River, Fore River Parkway, Forest Avenue, Preble Street.

20. Contractor shall install longitudinal pavement joints at crown lines or lane lines.

21. All work shall conform to MaineDOT Standard Specifications for highways and bridges.

22. Any Temporary Earth Support Systems required to support the earth adjacent to the back walls during bridge joint replacement or structural concrete repairs will not be measured separately, but shall be incidental to the related Contract Items.

CONSTRUCTION PHASING

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

2. Traffic Control Plans are provided in this plan set. If the contractor proposes a different traffic control scheme, the Contractor shall submit revised traffic control plans in accordance with the Special Provisions 107 & 652 and the Manual of Uniform Traffic Control Devices, latest edition.

3. The construction phasing for the bridge work has been separated into 9 work zones as follows:

- a. I-295 over State Route 703
- b. I-295 over Westbrook Street
- c. I-295 over Fore River
- d. I-295 over PTRR (Fore River) and Fore River Parkway
- e. I-295 over Congress Street and St. James Street
- f. I-295 over PTRR (St. John) and St. John Street
- g. I-295 over Forest Avenue and Preble Street
- h. I-295 over Franklin Street
- i. I-295 on Tukey's Bridge

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

4. Work zone time restrictions exist for all work zones. See Special Provisions 107 for specific work zone time restrictions and limitations of operations.

5. Except where noted otherwise, the Contractor shall provide 11 ft. min. width travel lanes and 1 ft. min. shoulders in all work zones, as shown on the bridge Phasing Sections. The Contractor shall maintain the number of travel lanes in work zones as defined on the Traffic Control Details and Traffic Control Plans.

6. Excessively wide lane widths may cause driver confusion. Contractor shall avoid lane widths in excess of 15'-0" unless approved by the Resident.

7. Long term lane closures required for bridge work shall be protected with temporary concrete barrier and crash cushions at the work zones. Contractor shall access the work zones from the trailing end, unless otherwise noted.

8. Wide load restrictions shall be in place for the construction duration. Advanced wide load signing shall be provided in accordance with the Traffic Control Plans. The Contractor shall contact the Maine Department of Motor Vehicles, Oversized Load Section at 207-624-9063 to coordinate the wide load restrictions, prior to the start of the work. Work shall be coordinated with the Resident. Payment for work will be considered incidental to the 652 pay items.

9. All lanes in long term lane closures and associated work zones shall be delineated with temporary paint lines. The only exception will be surface course of new pavement. Temporary pavement markings on the surface course of new pavement shall be either temporary paint lines or temporary reflectorized plastic marking lines, meeting the requirements of the 627 specifications. If temporary paint lines are installed on new surface pavement, the contractor shall remove the markings completely when work is complete in a manner that is non-destructive to the surface pavement. If temporary plastic marking lines are installed on new surface pavement, the contractor shall use the overlay method for installation in accordance with the manufacturer recommendations. Contractor shall monitor temporary plastic marking lines daily and replace any loose sections on a nightly basis. Temporary pavement marking lines will be paid for under item 627.781 regardless of the type of temporary markings used on surface pavement.

10. Temporary raised pavement markings will not be permitted in long term lane closures and associated work zones.

11. Long term lane closures shall be defined as closures that occur at a location for more than 3 days.

12. The Contractor shall remove all existing pavement markings that conflict with proposed markings.

13. The Contractor shall cover all existing signing that conflict with work zone signing (Incidental to Item 652.35).

14. The Contractor shall note that construction signing will be required to be mounted on the concrete median barrier. Contractor shall securely fasten the signs in a manner that does not present a safety risk to the traveling public. Trimming of the construction sign edges may be required to prevent signs from overhanging into the travel lanes. Coordinate work with Resident. All labor, material and equipment associated with installing median signage is incidental to Item 652.35.

15. All construction signs will be provided by the Contractor. See Sign Summary Sheet. See Special Provision 652 for information on specialty construction signs.

Date: 2/19/2020

Username:

Division:

Filename: 002_GeneralNotes.dgn

STATE OF MAINE DEPARTMENT OF TRANSPORTATION		2361501	WIN 023615.01	BRIDGE PLANS
INTERSTATE 295 SOUTHBOUND S. PORTLAND TO PORTLAND CUMBERLAND COUNTY		DATE 01/20	BY E. Beausoleil T. Cole	SIGNATURE
GENERAL NOTES AND CONSTRUCTION PHASING		DESIGN DETAILED	DESIGN REVIEWED	P.E. NUMBER
SHEET NUMBER		DESIGN DETAILED	DESIGN REVIEWED	DATE
2		REVISIONS 1	REVISIONS 2	DATE
OF 52		REVISIONS 3	REVISIONS 4	DATE
HNTB		FIELD CHANGES		

Date: 2/19/2020

Username:

Division:

Filename: 003_Estimated Quantities.dgn

ITEM NO.	DESCRIPTION	ESTIMATED BRIDGE QUANTITIES														TOTAL	UNIT
		SB State Route 703 Br. No. #1513	SB Westbrook Street Br. No. 6532	SB Fore River Br. No. 6534	SB PTRR Fore River Br. No. 6533	SB Fore River Parkway Br. No. 6556	SB Congress Street Br. No. 6535	SB St. James Street Br. No. 6536	SB PTRR St. John Br. No. 6537	SB St. John Street Br. No. 6538	SB Forest Avenue Br. No. 6539	SB Preble Street Br. No. 6540	SB Franklin Arterial Br. No. 6541	SB Tukey's Bridge Br. No. 3088			
202.202	Removing Pavement Surface	910	410	640	1190	850	850	880	850	900	940	720	990	960	11090	SY	
203.20	Common Excavation*	34	12	9	25	11	10	11	10	10	18	17	12	13	192	CY	
304.10	Aggregate Subbase Course - Gravel*	2	7	1	9	2	1	1	1	1	7	6	1	1	40	CY	
403.2101	Hot Mix Asphalt, 9.5 mm Nominal Maximum Size (Polymer Modified)	75	33	53	98	70	70	73	70	74	78	60	81	80	915	TON	
403.211	Hot Mix Asphalt, 9.5 mm Nominal Maximum Size (Shimming)	7	8	13	21	15	15	16	15	15	15	15	18	19	192	TON	
403.2131	Hot Mix Asphalt, 12.5mm Nominal Maximum Size (Base and Intermediate Base course, Polymer Modified)*	62	8	12	32	14	14	14	23	23	22	22	17	18	281	TON	
409.15	Bituminous Tack Coat, Applied	46	21	32	60	43	43	44	43	45	47	36	50	48	558	GAL	
461.131	Temporary Pavement	5	7	6	9	6	6	7	6	6	6	6	8	8	86	TON	
514.06	Curing Box for Concrete Cylinders	1	0	0	0	0	0	0	0	0	0	0	0	0	1	EA	
515.21	Protective Coating for Concrete Surfaces (15 SY)	1	0	0	0	0	0	0	0	0	0	0	0	0	1	LS	
518.51	Repair of Upward Facing Surfaces - below Reinforcing Steel < 8 inches*	53	39	31	53	39	40	38	37	38	39	35	45	47	534	SF	
518.52	Repair of Upward Facing Surfaces ≥ 8 inches*	2	4	0	6	2	0	0	0	0	4	4	0	0	22	CY	
520.2431	Bridge Joint Modification Type 3A	0	0	0	1	0	2	0	0	0	1	1	1	0	6	EA	
520.2432	Bridge Joint Modification Type 3B	1	1	0	0	0	0	0	0	0	0	0	0	0	2	EA	
520.2433	Bridge Joint Modification Type 3C	0	0	2	0	0	0	1	1	1	0	0	0	2	7	EA	
520.244	Bridge Joint Modification Type 4	0	0	0	1	2	0	1	1	1	1	1	1	0	9	EA	
520.245	Bridge Joint Modification Type 5	1	0	0	0	0	0	0	0	0	0	0	0	0	1	EA	
524.50	Temporary Roadway Mat	1	1	0	1	1	0	0	0	0	1	1	0	0	6	EA	
526.301	Temporary Concrete Barrier, Type I (1030 LF)	0.56	0.44	0	0	0	0	0	0	0	0	0	0	0	1	LS	
526.3401	Permanent Concrete Transition Barrier - Modified	2	0	0	0	0	0	0	0	0	0	0	0	0	2	EA	
527.33	Truck Mounted Attenuator	0	1	0	0	1	0	0	0	0	0	0	0	0	2	EA	
527.34	Work Zone Crash Cushions	1	1	0	0	0	0	0	0	0	0	0	0	0	2	UNIT	
627.744	6" White or Yellow Painted Pavement Marking Line	5100	1650	1900	820	550	890	500	520	510	570	410	630	2600	16650	LF	
627.77	Removing Existing Pavement Marking	1050	75	0	0	0	0	0	0	0	0	0	0	0	1125	SF	
627.781	Temporary 6" Painted Pavement Marking Line, White or Yellow	4350	1750	0	0	0	0	0	0	0	0	0	0	0	6100	LF	
629.05	Hand Labor, Straight Time	10	10	10	10	10	10	10	10	10	10	10	10	10	130	HR	
631.10	Air Compressor (including operator)	10	10	10	10	10	10	10	10	10	10	10	10	10	130	HR	
631.11	Air Tool (including operator)	10	10	10	10	10	10	10	10	10	10	10	10	10	130	HR	
631.112	Welding Machine (including operator)	0	0	0	20	0	0	0	0	20	20	0	0	0	60	HR	
631.12	All Purpose Excavator (including operator)	5	5	5	5	5	5	5	5	5	5	5	5	5	65	HR	
631.172	Truck-Large (including operator)	5	5	5	5	5	5	5	5	5	5	5	5	5	65	HR	
639.18	Field Office, Type A	1	0	0	0	0	0	0	0	0	0	0	0	0	1	EA	
652.30	Flashing Arrow	1	1	1	0	1	0	1	0	1	0	1	2	1	10	EA	
652.312	Type III Barricades	0	0	2	3	4	1	1	0	0	2	1	2	2	18	EA	
652.33	Drum	46	90	83	29	29	41	41	28	29	35	36	58	71	616	EA	
652.34	Cone	10	10	10	5	5	5	5	5	5	5	5	20	20	110	EA	
652.35	Construction Signs	510	510	510	400	400	340	340	260	260	380	380	680	650	5620	SF	
652.361	Maintenance of Traffic Control Devices	0.19	0.13	0.03	0.00	0.19	0.00	0.11	0.00	0.11	0.00	0.15	0.03	0.06	1	LS	
652.38	Flaggers	16	16	16	14	16	14	14	16	16	14	16	16	16	200	HR	
652.381	Traffic Officers	0	0	0	190	0	81	81	0	0	170	0	0	0	522	HR	
652.41	Portable-Changeable Message Sign	1	0	0	0	0	0	0	0	0	0	0	0	1	2	EA	
652.46	Sequential Flashing Warning Lights	8	8	8	3	3	3	3	3	3	3	3	5	5	58	EA	
656.75	Temporary Soil Erosion and Water Pollution Control	0.08	0.08	0.07	0.08	0.08	0.07	0.08	0.08	0.07	0.08	0.08	0.07	0.08	1	LS	
659.10	Mobilization	0.08	0.08	0.07	0.08	0.08	0.07	0.08	0.08	0.07	0.08	0.08	0.07	0.08	1	LS	

* Undetermined Location

Notes:

1. Estimated Quantities for each bridge are provided here for reference purposes only.

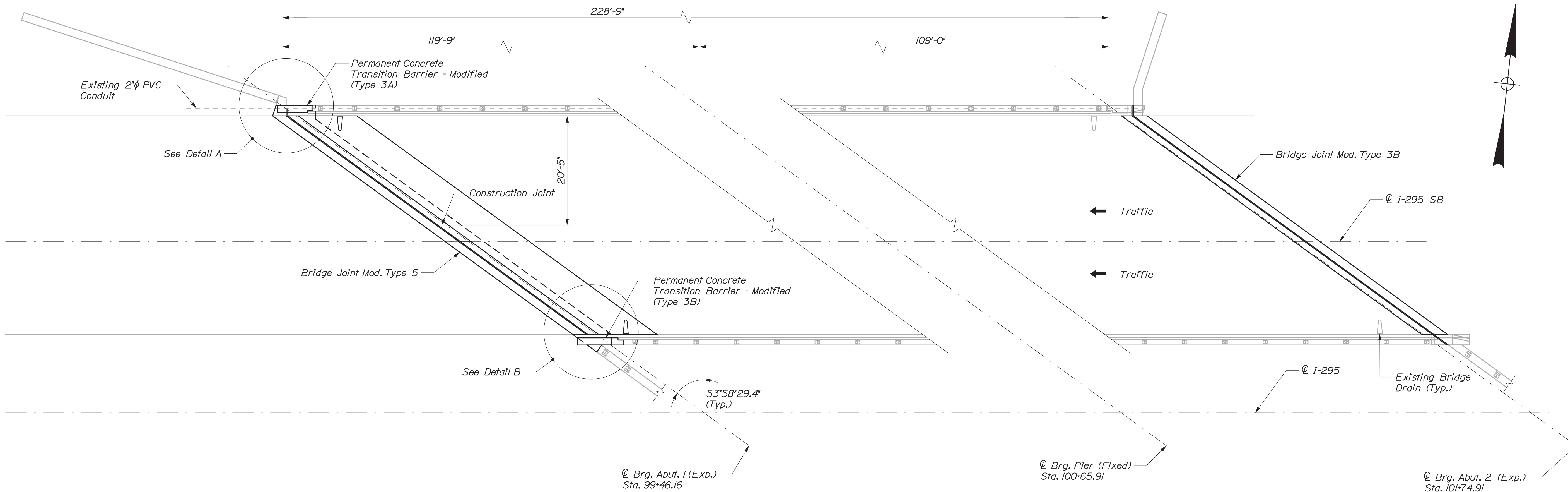
STATE OF MAINE		DEPARTMENT OF TRANSPORTATION		2361501		WIN		023615.01		BRIDGE PLANS	
INTERSTATE 295 SOUTHBOND		S. PORTLAND TO PORTLAND		ESTIMATED QUANTITIES		SHEET NUMBER		3		OF 52	
PROJ. MANAGER	M. Kerschner	DESIGN-DETAILED	G. Standley	CHECKED-REVIEWED	A. Stephens	DESIGNS-DETAILED		REVISIONS 1		REVISIONS 2	
BY	E. Beausoleil	DATE	01/20	SIGNATURE		DATE		P.E. NUMBER		DATE	
DATE	01/20	DATE	01/20	DATE		DATE		DATE		DATE	



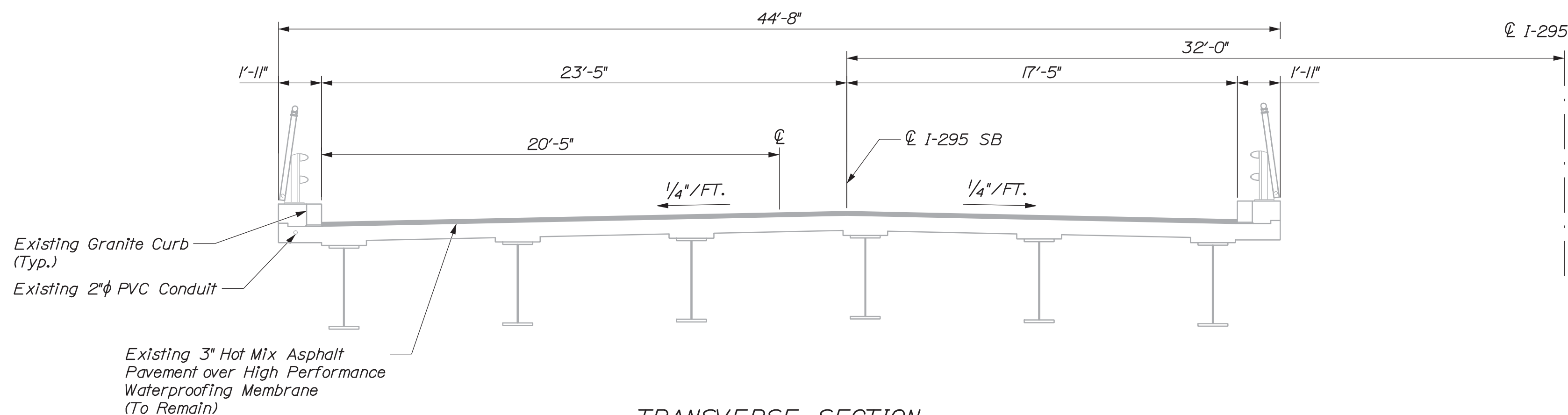
Date: 2/19/2020

Username:

Filename: 004_PlanSect - Route 703 - SB.dgn Division:



INTERSTATE 295 SOUTHBOUND OVER STATE ROUTE 703
 South Portland ~ Bridge No. 1513



- NOTES:**
- Contractor shall repair areas of concrete deck and backwall deterioration under and adjacent to the existing elastomeric header concrete as directed by the Resident. Locations of deck and backwall repairs are undetermined for this bridge. The Resident shall identify areas for deck and backwall repair after removing the existing header concrete and shall progress the repair work to reopen the travel lanes daily with temporary pavement and/or plating as required. Coordinate work with Resident. Payment for concrete repair work shall be under the 518 pay items.
 - For Details A and B see "Concrete Transition Barrier Details I"

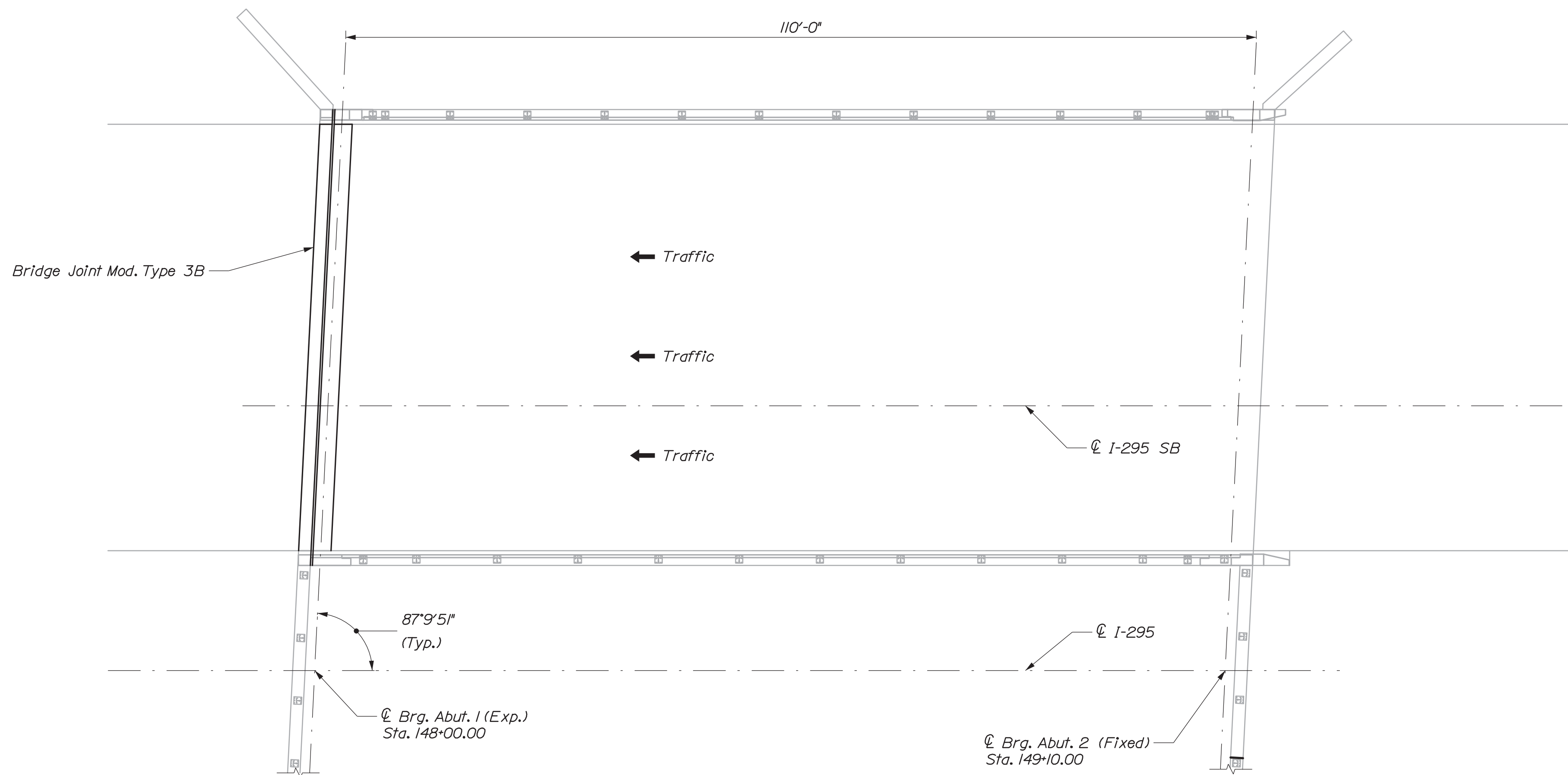


STATE OF MAINE DEPARTMENT OF TRANSPORTATION	2361501	BRIDGE NO. 1513	BRIDGE PLANS
	WIN	023615.01	

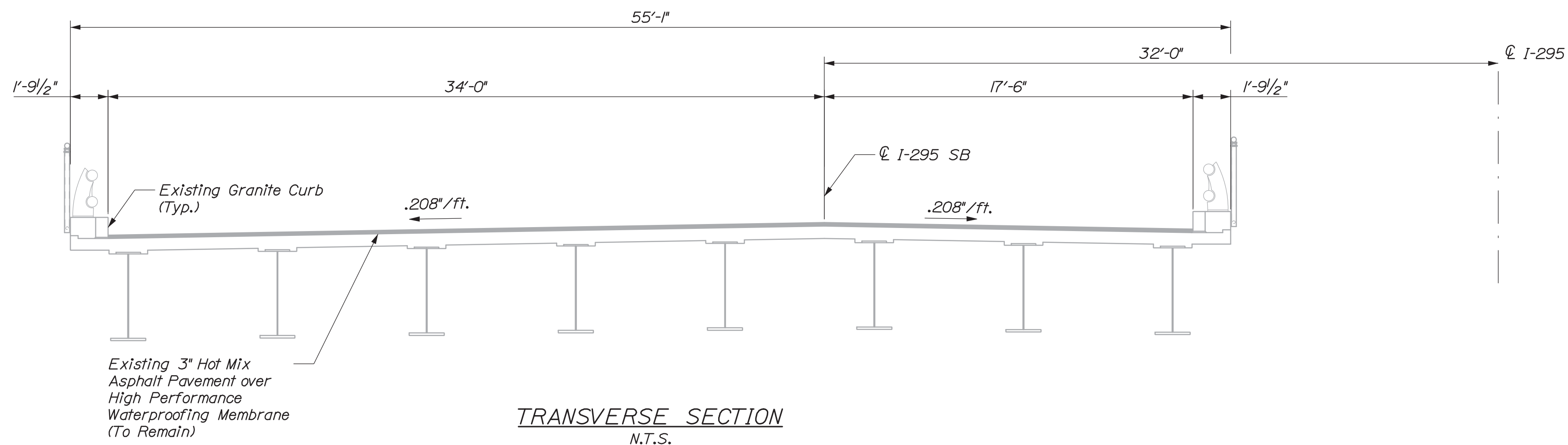
PROJ. MANAGER	M. Kerstner/gen	DATE	01/20
DESIGN/DETAILED	G. Standley	BY	E. Brunsfeld
CHECKED/REVIEWED	A. Stephens	DATE	01/20
DESIGN/REVIEWED	T. Cole	SIGNATURE	
REVISIONS 1		P.E. NUMBER	
REVISIONS 2		DATE	
REVISIONS 3			
REVISIONS 4			
FIELD CHANGES			

INTERSTATE 295 SOUTHBOUND	
S. PORTLAND TO PORTLAND	
CUMBERLAND COUNTY	
PLAN AND SECTION	
STATE ROUTE 703	

SHEET NUMBER	4
OF 52	



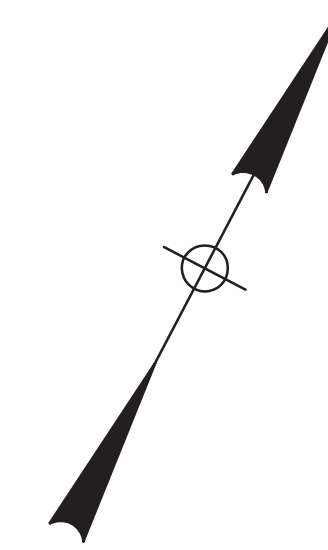
INTERSTATE 295 SOUTHBOUND OVER WESTBROOK STREET
 South Portland ~ Bridge No. 6532



NOTES:

1. Contractor shall repair areas of concrete deck and backwall deterioration under and adjacent to the existing elastomeric header concrete as directed by the Resident. Locations of deck and backwall repairs are undetermined for this bridge. The Resident shall identify areas for deck and backwall repair after removing the existing header concrete and shall progress the repair work to reopen the travel lanes daily with temporary pavement and/or plating as required. Coordinate work with Resident. Payment for concrete repair work shall be under the 518 pay items.

TRANSVERSE SECTION
 N.T.S.



STATE OF MAINE DEPARTMENT OF TRANSPORTATION 2361501		BRIDGE NO. 6532 WIN 023615.01 BRIDGE PLANS	
PROJ. MANAGER M. Kerstner/gen	BY E. Beausoleil T. Cole	DATE 01/20 01/20	SIGNATURE
DESIGN/DETAILED G. Standley A. Stephens	CHECKED/REVIEWED G. Standley A. Stephens	DESIGN/DETAILED G. Standley A. Stephens	P.E. NUMBER
DESIGN/DETAILED G. Standley A. Stephens	DESIGN/DETAILED G. Standley A. Stephens	DESIGN/DETAILED G. Standley A. Stephens	DATE
REVISIONS 1	REVISIONS 2	REVISIONS 3	REVISIONS 4
FIELD CHANGES	FIELD CHANGES	FIELD CHANGES	FIELD CHANGES
INTERSTATE 295 SOUTHBOUND S. PORTLAND TO PORTLAND CUMBERLAND COUNTY		PLAN AND SECTION WESTBROOK STREET	
SHEET NUMBER		5	
		OF 52	

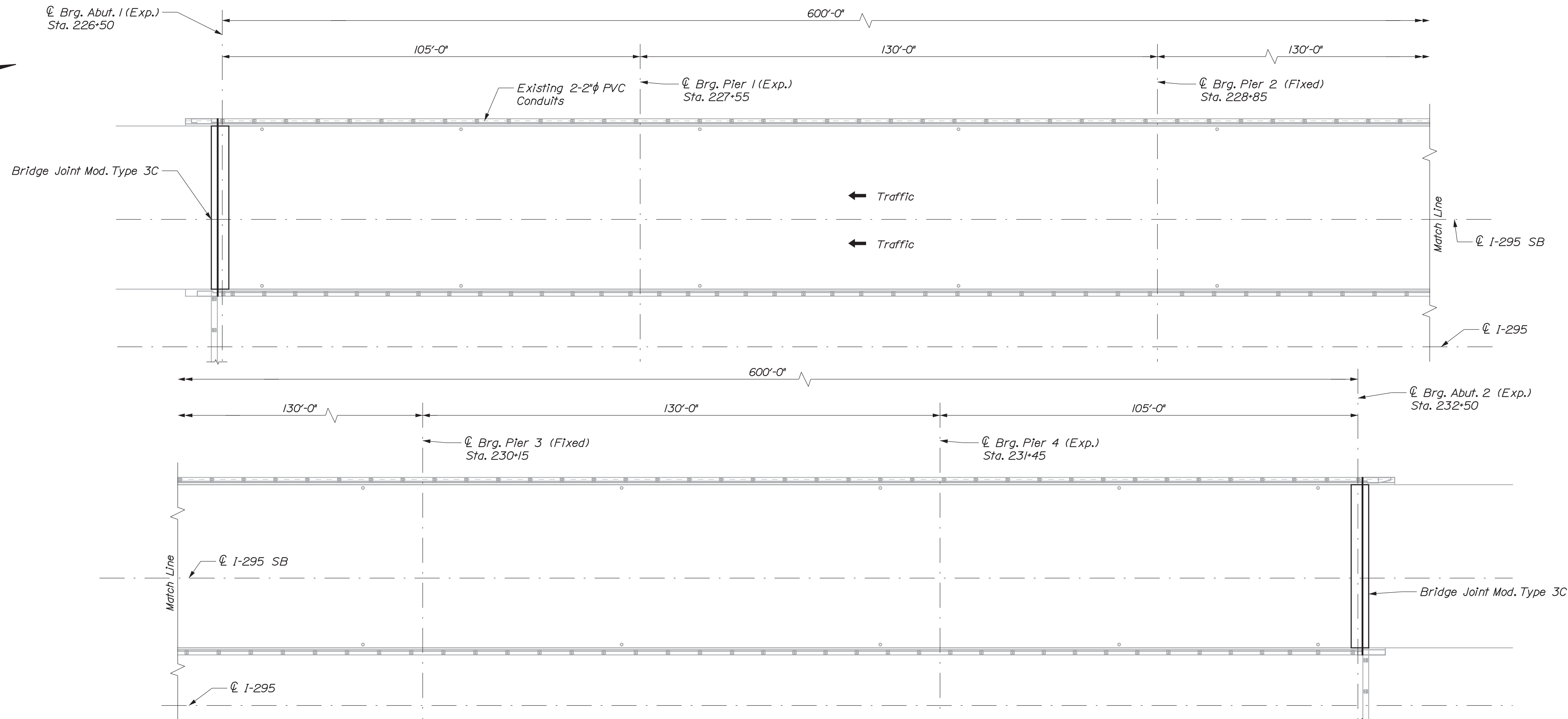
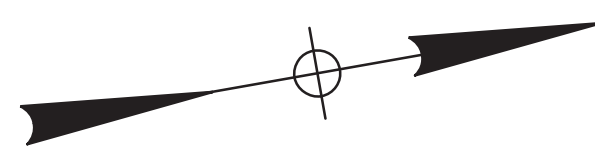


Date: 2/19/2020

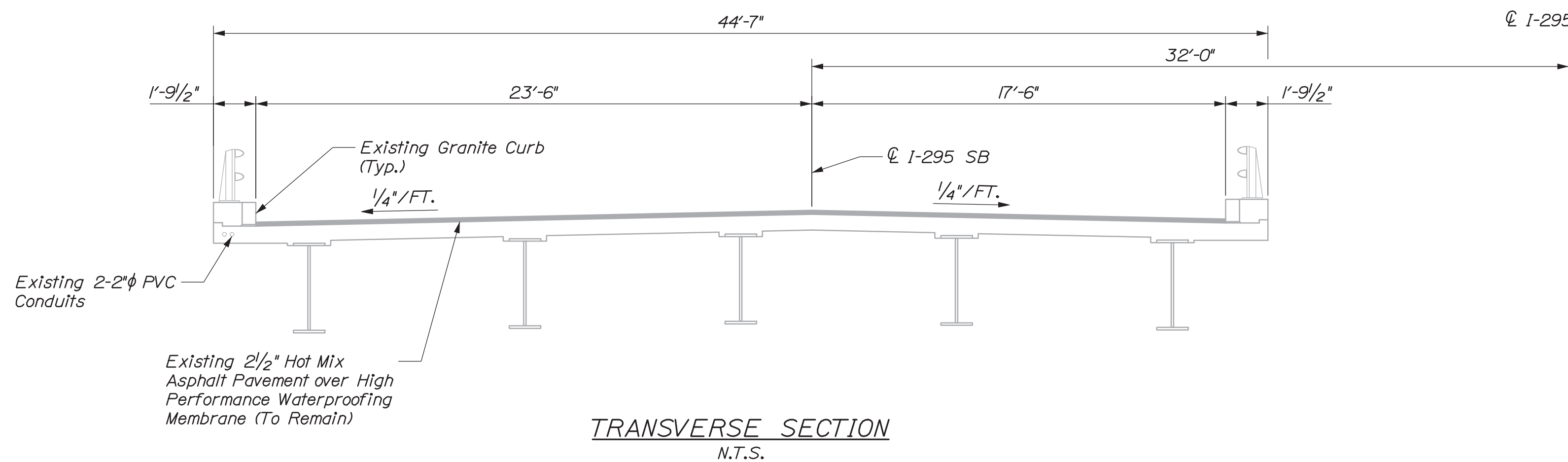
Username:

Division:

Filename: 006_PlanSect - Fore River - SB.dgn



INTERSTATE 295 SOUTHBOUND OVER FORE RIVER
 Portland ~ Bridge No. 6534



NOTES:

1. Not all conduit details shown. See as-builts for additional information.
2. Contractor shall repair areas of concrete deck and backwall deterioration under and adjacent to the existing elastomeric header concrete as directed by the Resident. Locations of deck and backwall repairs are undetermined for this bridge. The Resident shall identify areas for deck and backwall repair after removing the existing header concrete and shall progress the repair work to reopen the travel lanes daily with temporary pavement and/or plating as required. Coordinate work with Resident. Payment for concrete repair work shall be under the 518 pay items.

STATE OF MAINE	BRIDGE PLANS
DEPARTMENT OF TRANSPORTATION	WIN 023615.01
2361501	BRIDGE NO. 6534

PROJ. MANAGER	M. Kersbergen	DATE	01/20
DESIGN DETAILED	G. Standley	BY	E. Brunsell
CHECKED/REVIEWED	A. Stephens	DATE	01/20
DESIGN DETAILED		SIGNATURE	
REVISIONS 1		P.E. NUMBER	
REVISIONS 2		DATE	
REVISIONS 3			
REVISIONS 4			
FIELD CHANGES			

INTERSTATE 295 SOUTHBOUND
S. PORTLAND TO PORTLAND
CUMBERLAND COUNTY
PLAN AND SECTION
FORE RIVER

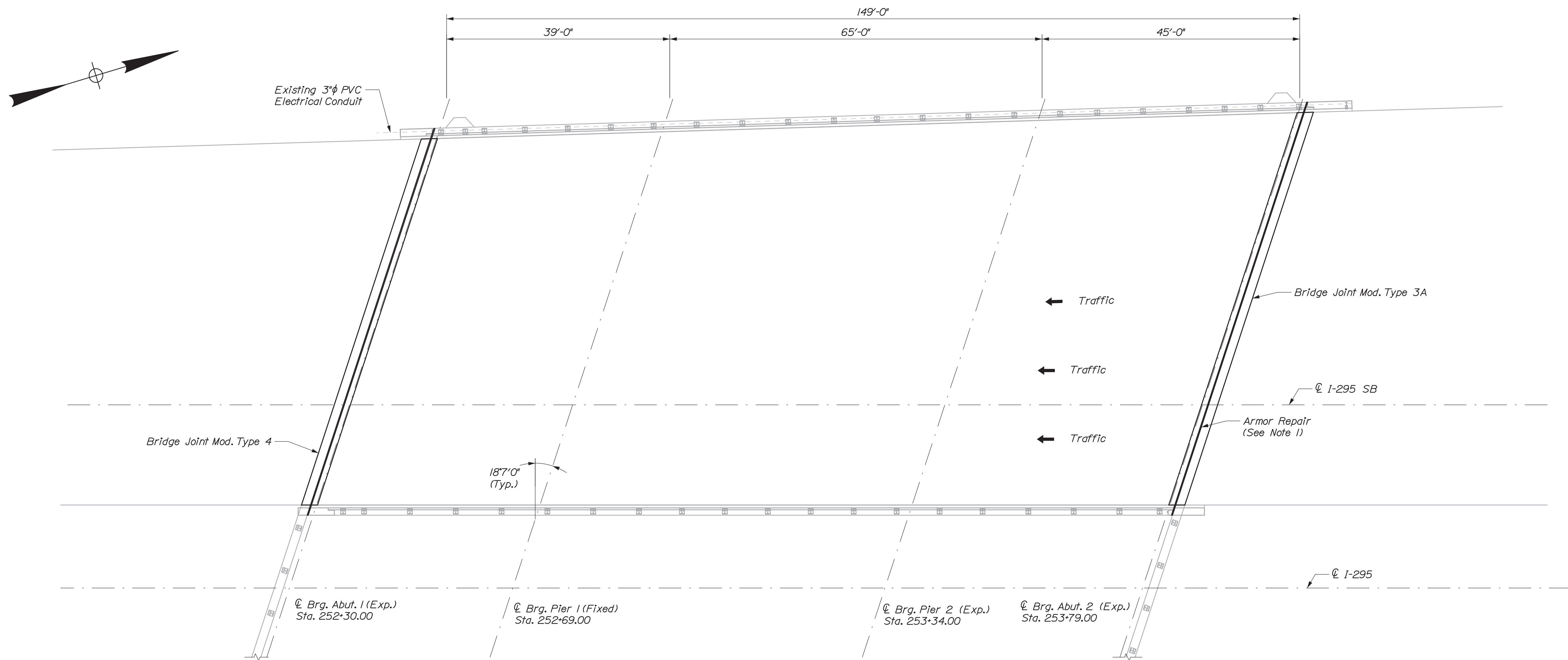
SHEET NUMBER
6
OF 52



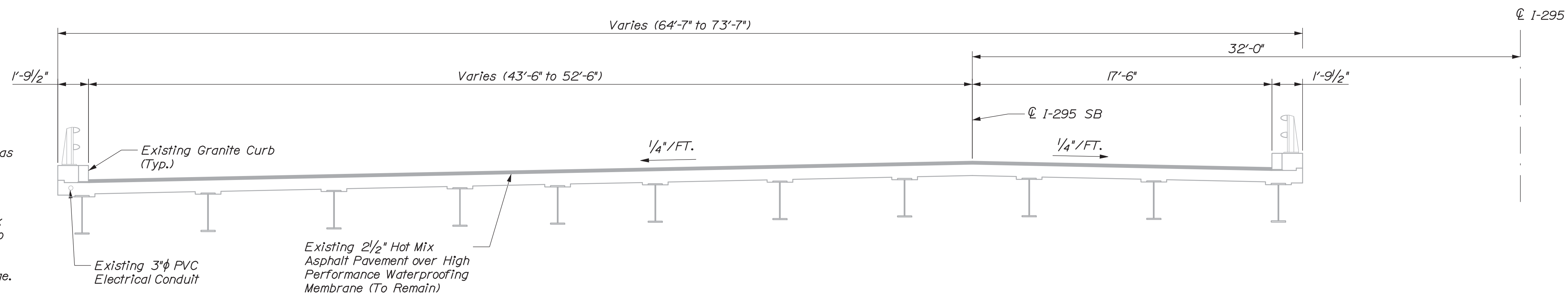
Date: 2/19/2020

Username:

Filename: 007_PlanSect - PTRR (Fore River) - SB.dgn



INTERSTATE 295 SOUTHBOUND OVER PTRR (FORE RIVER)
Portland ~ Bridge No. 6533



- NOTES:**
- The north joint armor is fractured and will require 1'-0"± of removal and in-kind replacement as directed by the Resident. The work shall be incidental to Pay Item 631.112 Welding Machine (including operator).
 - Contractor shall repair areas of concrete deck and backwall deterioration under and adjacent to the existing elastomeric header concrete as directed by the Resident. Locations of deck and backwall repairs are undetermined for this bridge. The Resident shall identify areas for deck and backwall repair after removing the existing header concrete and shall progress the repair work to reopen the travel lanes daily with temporary pavement and/or plating as required. Coordinate work with Resident. Payment for concrete repair work shall be under the 518 pay items.

TRANSVERSE SECTION
N.T.S.

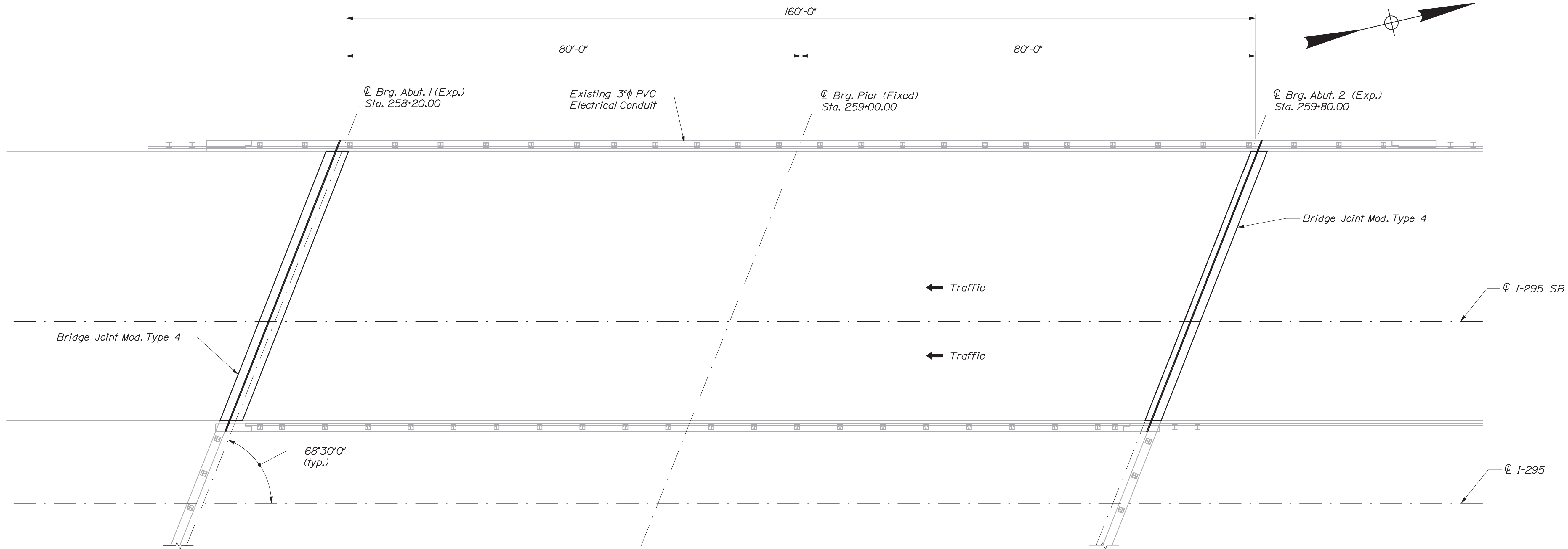
STATE OF MAINE DEPARTMENT OF TRANSPORTATION 2361501		BRIDGE NO. 6533 WIN 023615.01 BRIDGE PLANS	
PROJ. MANAGER M. Kerstner/gen	BY E. Brunsfeld T. Cole	DATE 01/20 01/20	SIGNATURE
DESIGN/DETAILED G. Standley A. Stephens	DESIGN/REVIEWED	DESIGN/DATE	P.E. NUMBER
REVISIONS 1	REVISIONS 2	REVISIONS 3	REVISIONS 4
FIELD CHANGES		DATE	
INTERSTATE 295 SOUTHBOUND S. PORTLAND TO PORTLAND CUMBERLAND COUNTY		PLAN AND SECTION PTRR (FORE RIVER)	
SHEET NUMBER		7	
		OF 52	



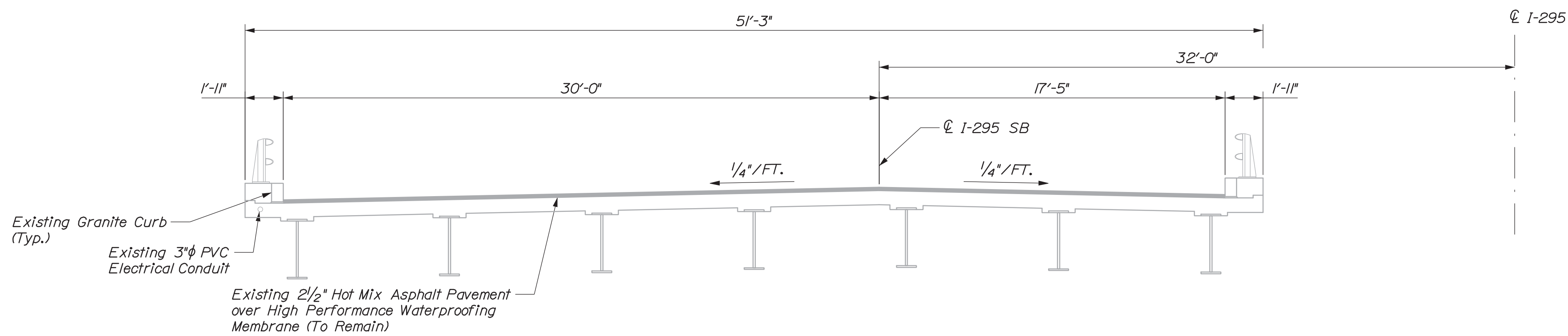
Date: 2/19/2020

Username:

Filename: 008_PlanSect - Fore River Parkway - SBD



INTERSTATE 295 SOUTHBOUND OVER FORE RIVER PARKWAY
 Portland ~ Bridge No. 6556



TRANSVERSE SECTION
 N.T.S.

NOTES:

1. Contractor shall repair areas of concrete deck and backwall deterioration under and adjacent to the existing elastomeric header concrete as directed by the Resident. Locations of deck and backwall repairs are undetermined for this bridge. The Resident shall identify areas for deck and backwall repair after removing the existing header concrete and shall progress the repair work to reopen the travel lanes daily with temporary pavement and/or plating as required. Coordinate work with Resident. Payment for concrete repair work shall be under the 518 pay items.

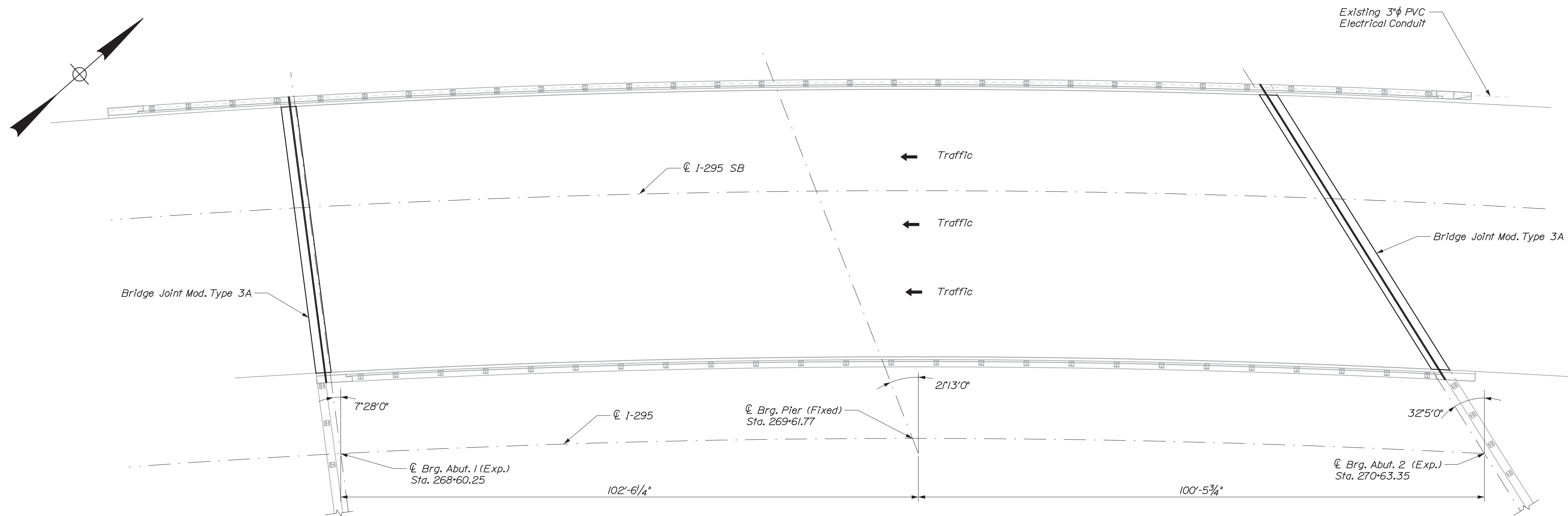
STATE OF MAINE DEPARTMENT OF TRANSPORTATION		2361501		WIN 023615.01		BRIDGE NO. 6556 BRIDGE PLANS	
INTERSTATE 295 SOUTHBOUND S. PORTLAND TO PORTLAND CUMBERLAND COUNTY		PLAN AND SECTION FORE RIVER PARKWAY		SHEET NUMBER 8		OF 52	
PROJ. MANAGER	M. Kershaugen	BY	E. Brunsell	DATE	01/20	SIGNATURE	
DESIGN/DETAILED	G. Standley	CHECKED/REVIEWED	A. Stephens	DATE	01/20	P.E. NUMBER	
DESIGN/DETAILED		DESIGN/DETAILED		DATE		DATE	
REVISIONS	1	REVISIONS	2	DATE		DATE	
REVISIONS	3	REVISIONS	4	DATE		DATE	
FIELD CHANGES		FIELD CHANGES		DATE		DATE	



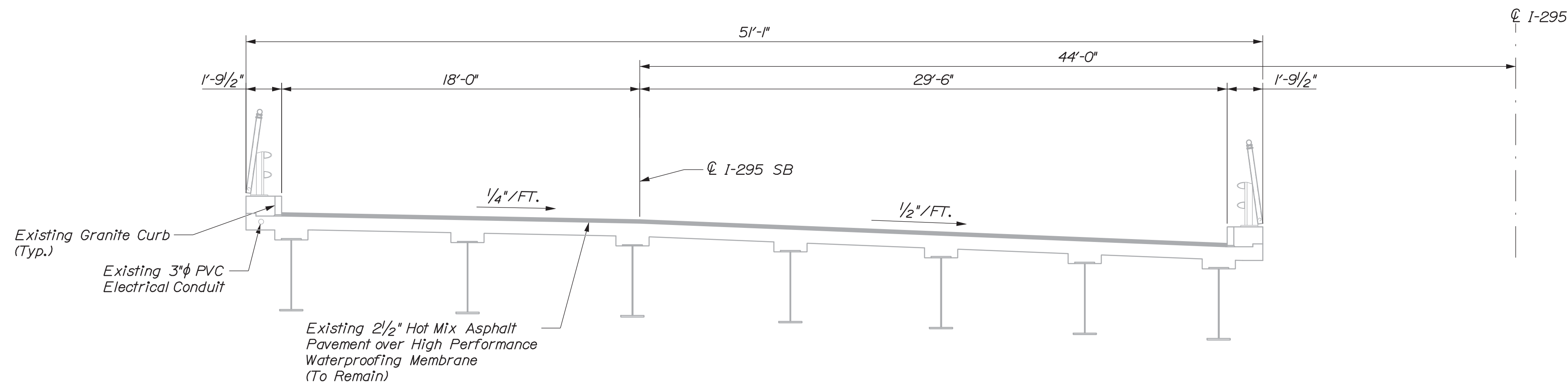
Date: 2/19/2020

Username:

Filename: 009_PlanSect - Congress Street - SB.dwg



INTERSTATE 295 SOUTHBOUND OVER CONGRESS STREET & PARK AVENUE
Portland ~ Bridge No. 6535



TRANSVERSE SECTION
N.T.S.

NOTES:

1. Contractor shall repair areas of concrete deck and backwall deterioration under and adjacent to the existing elastomeric header concrete as directed by the Resident. Locations of deck and backwall repairs are undetermined for this bridge. The Resident shall identify areas for deck and backwall repair after removing the existing header concrete and shall progress the repair work to reopen the travel lanes daily with temporary pavement and/or plating as required. Coordinate work with Resident. Payment for concrete repair work shall be under the 518 pay items.

STATE OF MAINE DEPARTMENT OF TRANSPORTATION	2361501	BRIDGE NO. 6535	WIN 023615.01	BRIDGE PLANS
--	---------	-----------------	------------------	--------------

PROJ. MANAGER	M. Kerstner/gen	DATE	
DESIGN/DETAILED	G. Standley	DATE	01/20
CHECKED/REVIEWED	E. Breussel	DATE	01/20
DESIGN/REVIEWED	A. Stephens	SIGNATURE	
DESIGN/DETAILED		P.E. NUMBER	
REVISIONS 1		DATE	
REVISIONS 2			
REVISIONS 3			
REVISIONS 4			
FIELD CHANGES			

INTERSTATE 295 SOUTHBOUND	
S. PORTLAND TO PORTLAND	
CUMBERLAND COUNTY	
PLAN AND SECTION	
CONGRESS ST. & PARK AVE.	

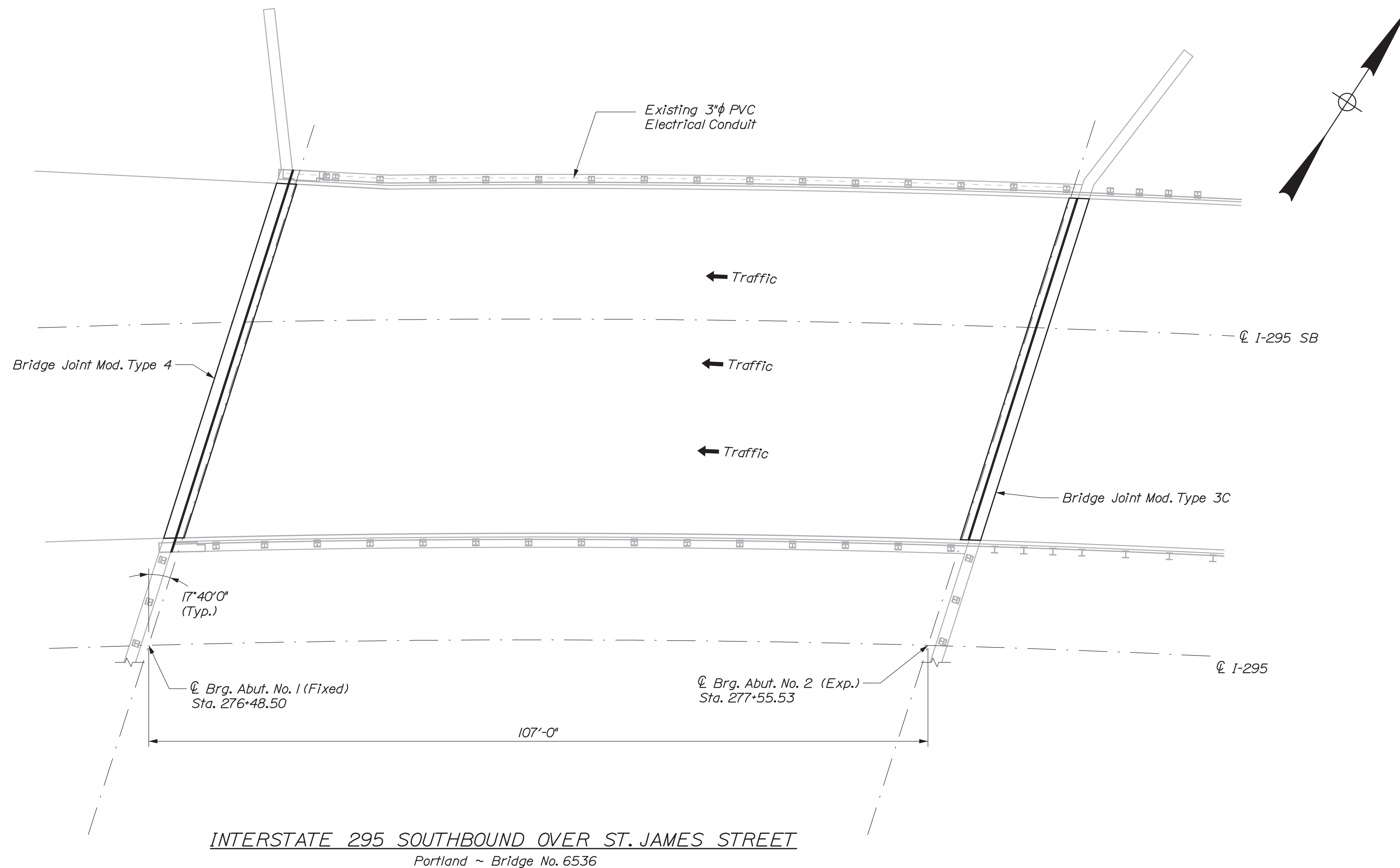
SHEET NUMBER	9
OF 52	



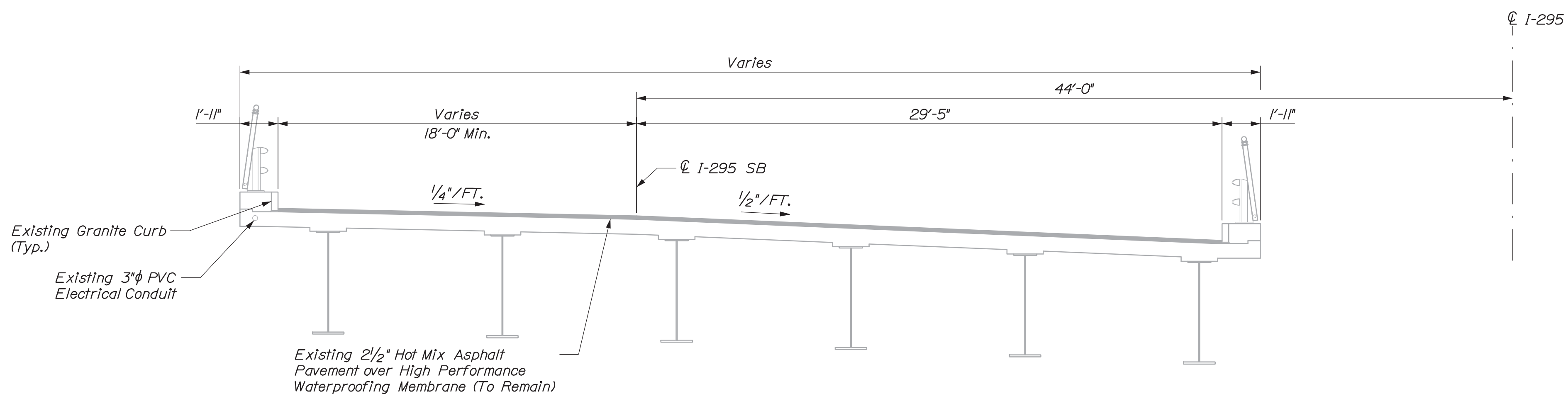
Date: 2/19/2020

Username:

Filename: 010_PlanSect - St James Street - SB.dgn Division:



INTERSTATE 295 SOUTHBOUND OVER ST. JAMES STREET
Portland ~ Bridge No. 6536



TRANSVERSE SECTION
N.T.S.

NOTES:

1. Contractor shall repair areas of concrete deck and backwall deterioration under and adjacent to the existing elastomeric header concrete as directed by the Resident. Locations of deck and backwall repairs are undetermined for this bridge. The Resident shall identify areas for deck and backwall repair after removing the existing header concrete and shall progress the repair work to reopen the travel lanes daily with temporary pavement and/or plating as required. Coordinate work with Resident. Payment for concrete repair work shall be under the 518 pay items.

STATE OF MAINE DEPARTMENT OF TRANSPORTATION	2361501	WIN	023615.01	BRIDGE NO. 6536	BRIDGE PLANS
--	---------	-----	-----------	-----------------	--------------

PROJ. MANAGER	M. Kersting	BY	E. Brunsell	DATE	01/20
DESIGN/DETAILED	G. Standley	CHECKED/REVIEWED	A. Stephens	DATE	01/20
DESIGN/DETAILED		DESIGN/DETAILED		SIGNATURE	
REVISIONS 1		REVISIONS 1		P.E. NUMBER	
REVISIONS 2		REVISIONS 2		DATE	
REVISIONS 3		REVISIONS 3			
REVISIONS 4		REVISIONS 4			
FIELD CHANGES					

INTERSTATE 295 SOUTHBOUND	
S. PORTLAND TO PORTLAND	
CUMBERLAND COUNTY	
PLAN AND SECTION	
ST. JAMES STREET	

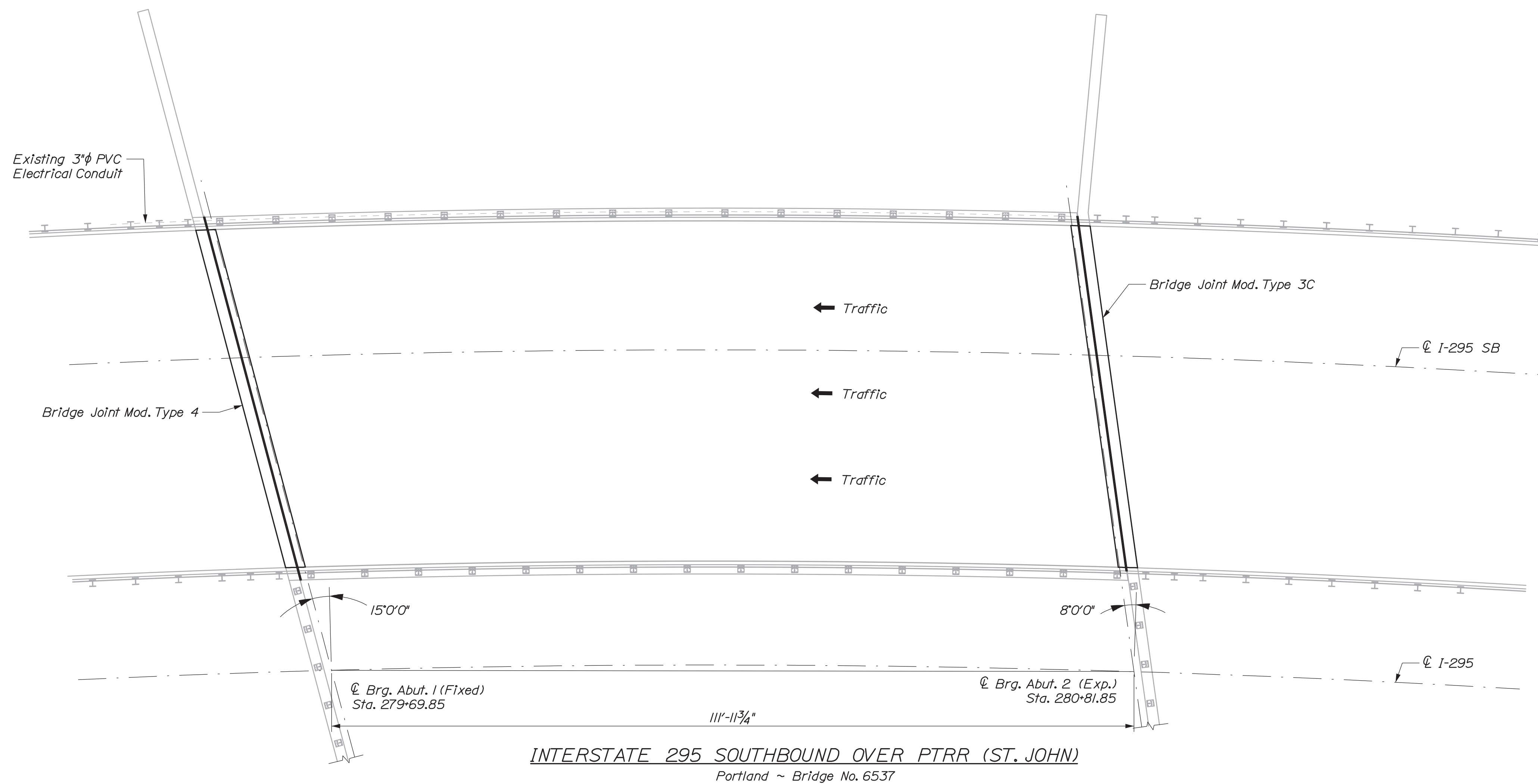
SHEET NUMBER	10
	OF 52



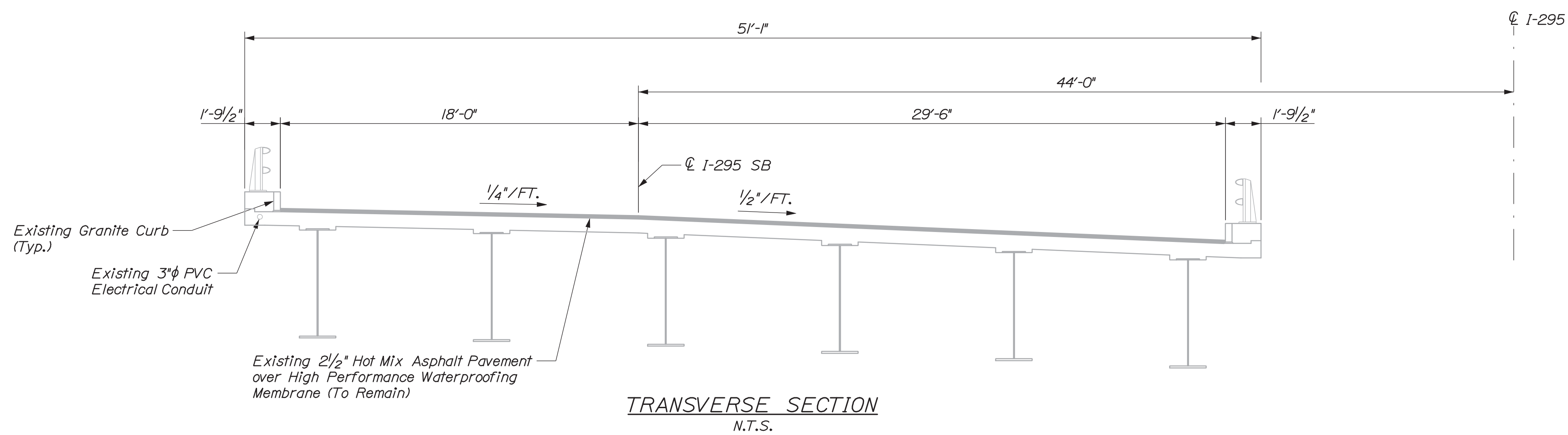
Date: 2/19/2020

Username:

Filename: 011_PlanSect - PTRR (St John Street) - SB.dwg



INTERSTATE 295 SOUTHBOUND OVER PTRR (ST. JOHN)
Portland ~ Bridge No. 6537



NOTES:

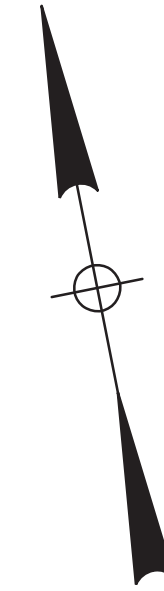
1. Contractor shall repair areas of concrete deck and backwall deterioration under and adjacent to the existing elastomeric header concrete as directed by the Resident. Locations of deck and backwall repairs are undetermined for this bridge. The Resident shall identify areas for deck and backwall repair after removing the existing header concrete and shall progress the repair work to reopen the travel lanes daily with temporary pavement and/or plating as required. Coordinate work with Resident. Payment for concrete repair work shall be under the 518 pay items.

Existing Granite Curb (Typ.)

Existing 3" PVC Electrical Conduit

Existing 2 1/2" Hot Mix Asphalt Pavement over High Performance Waterproofing Membrane (To Remain)

TRANSVERSE SECTION
N.T.S.



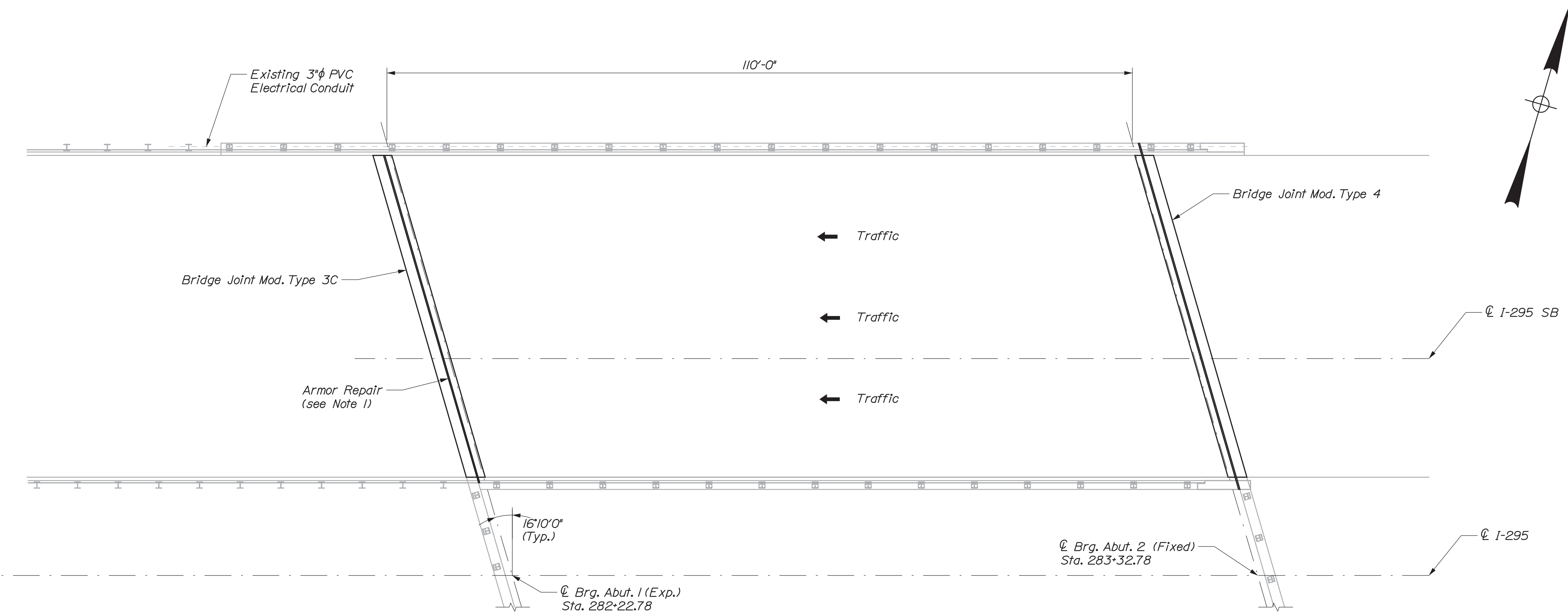
STATE OF MAINE DEPARTMENT OF TRANSPORTATION 2361501		BRIDGE NO. 6537 WIN 023615.01 BRIDGE PLANS	
PROJ. MANAGER M. Kerstberger	DESIGN DETAILED G. Standley	BY E. Brunsfeld	DATE 01/20
CHECKED/REVIEWED A. Stephens	DESIGN DETAILED	T. Cole	01/20
DESIGN DETAILED	DESIGN DETAILED		
REVISIONS 1	REVISIONS 1		
REVISIONS 2	REVISIONS 2		
REVISIONS 3	REVISIONS 3		
REVISIONS 4	REVISIONS 4		
FIELD CHANGES	FIELD CHANGES		
INTERSTATE 295 SOUTHBOUND S. PORTLAND TO PORTLAND CUMBERLAND COUNTY		SIGNATURE	
PLAN AND SECTION PTRR (ST. JOHN STREET)		P.E. NUMBER	
SHEET NUMBER		DATE	
11			
OF 52			



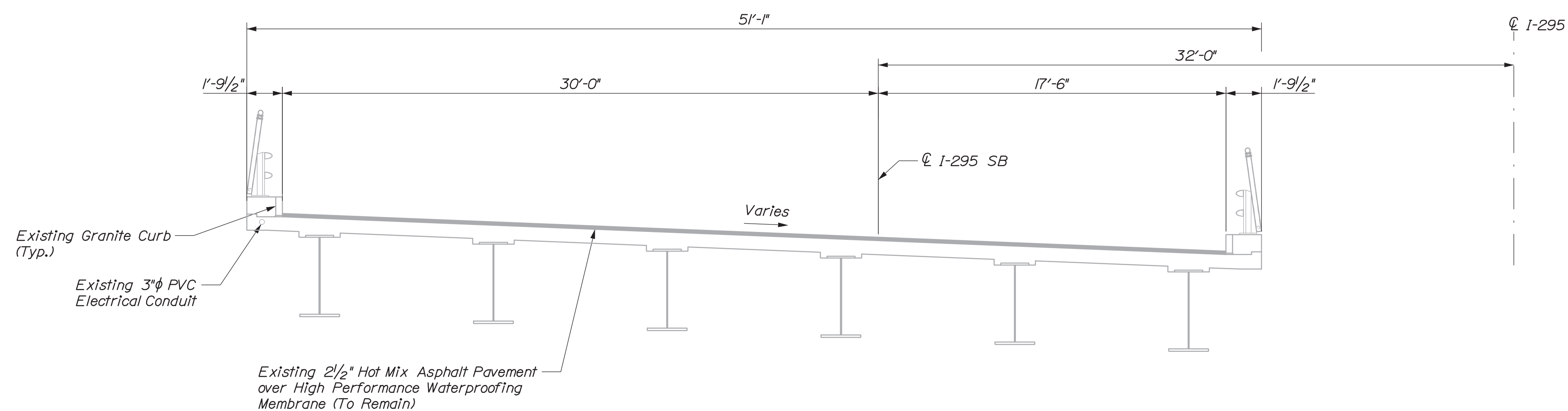
Date: 2/19/2020

Username:

Filename: 012_PlanSect - St John Street - SB.dgn Division:



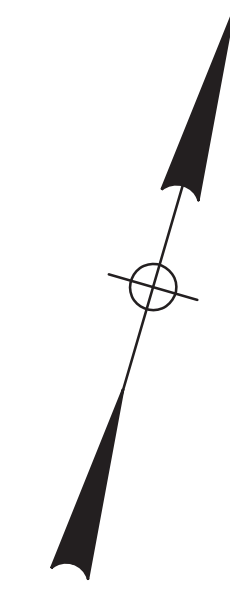
INTERSTATE 295 SOUTHBOUND OVER ST. JOHN STREET
Portland ~ Bridge No. 6538



TRANSVERSE SECTION
N.T.S.

NOTES:

- Field inspection indicates existing joint armor shear connectors on the backwall side may have failed in isolated areas. As directed by the Resident, the Contractor shall remove concrete to expose the failed shear studs, shall field weld new shear connectors, and shall repair removed concrete. Removing and repairing concrete will be paid under the appropriate 518 Pay Item, and replacing shear studs will be paid under Pay Item 631.112 Welding Machine (including operator).
- Contractor shall repair areas of concrete deck and backwall deterioration under and adjacent to the existing elastomeric header concrete as directed by the Resident. Locations of deck and backwall repairs are undetermined for this bridge. The Resident shall identify areas for deck and backwall repair after removing the existing header concrete and shall progress the repair work to reopen the travel lanes daily with temporary pavement and/or plating as required. Coordinate work with Resident. Payment for concrete repair work shall be under the 518 pay items.



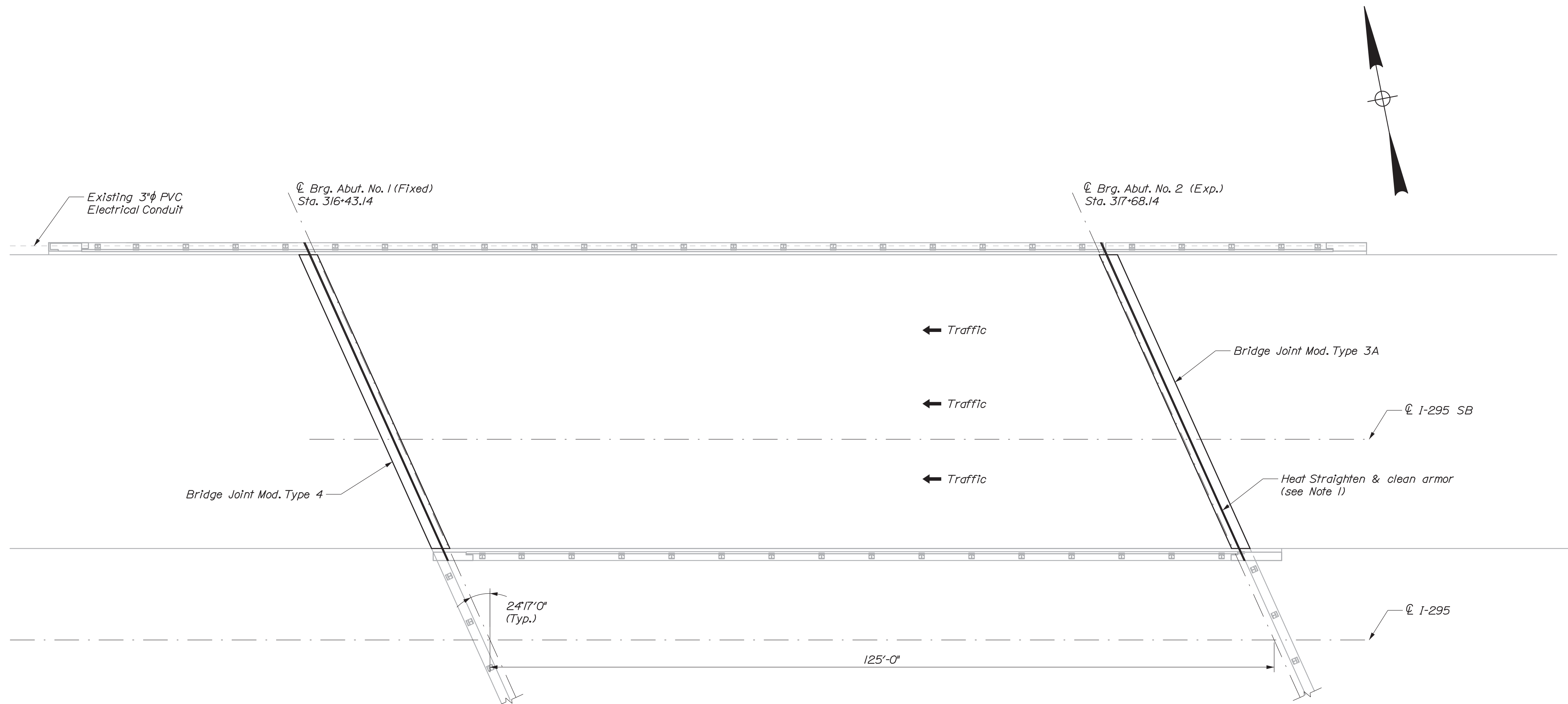
STATE OF MAINE DEPARTMENT OF TRANSPORTATION		2361501		BRIDGE NO. 6538		WIN 023615.01		BRIDGE PLANS	
INTERSTATE 295 SOUTHBOUND S. PORTLAND TO PORTLAND CUMBERLAND COUNTY		PLAN AND SECTION ST. JOHN STREET		SHEET NUMBER		12		OF 52	
PROJ. MANAGER	M. Kershaugen	BY	E. Brunsell	DATE	01/20	SIGNATURE		P.E. NUMBER	
DESIGN/DETAILED	G. Standley	CHECKED/REVIEWED	A. Stephens	DATE	01/20	SIGNATURE		P.E. NUMBER	
DESIGN/DETAILED		DESIGN/DETAILED		DATE		SIGNATURE		P.E. NUMBER	
REVISIONS 1		REVISIONS 1		DATE		SIGNATURE		P.E. NUMBER	
REVISIONS 2		REVISIONS 2		DATE		SIGNATURE		P.E. NUMBER	
REVISIONS 3		REVISIONS 3		DATE		SIGNATURE		P.E. NUMBER	
REVISIONS 4		REVISIONS 4		DATE		SIGNATURE		P.E. NUMBER	
FIELD CHANGES		FIELD CHANGES		DATE		SIGNATURE		P.E. NUMBER	



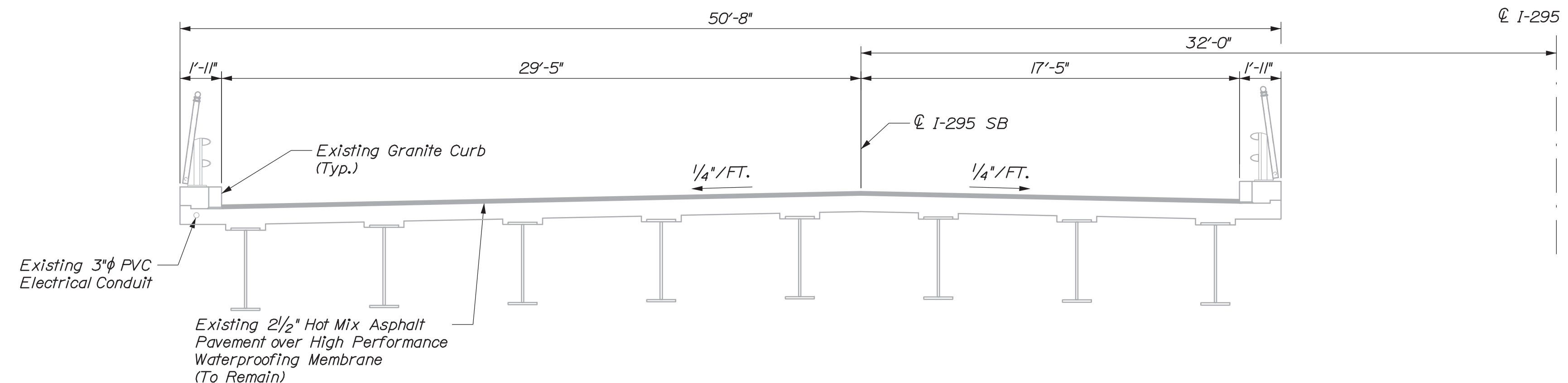
Date: 2/19/2020

Username:

Filename: 013_PlanSect - Forest Avenue - SB.dgn Division:



INTERSTATE 295 SOUTHBOUND OVER FOREST AVENUE
Portland ~ Bridge No. 6539



NOTES:

1. The existing north backwall joint armor shall be blast cleaned and heat straightened as directed by the Resident. Locations of deck and backwall repairs are undetermined for this bridge. The Resident shall identify areas for deck and backwall repair after removing the existing header concrete and shall progress the repair work to reopen the travel lanes daily with temporary pavement and/or plating as required. Coordinate work with Resident. Payment for concrete repair work shall be under the 518 pay items.
2. Contractor shall repair areas of concrete deck and backwall deterioration under and adjacent to the existing elastomeric header concrete as directed by the Resident. Locations of deck and backwall repairs are undetermined for this bridge. The Resident shall identify areas for deck and backwall repair after removing the existing header concrete and shall progress the repair work to reopen the travel lanes daily with temporary pavement and/or plating as required. Coordinate work with Resident. Payment for concrete repair work shall be under the 518 pay items.

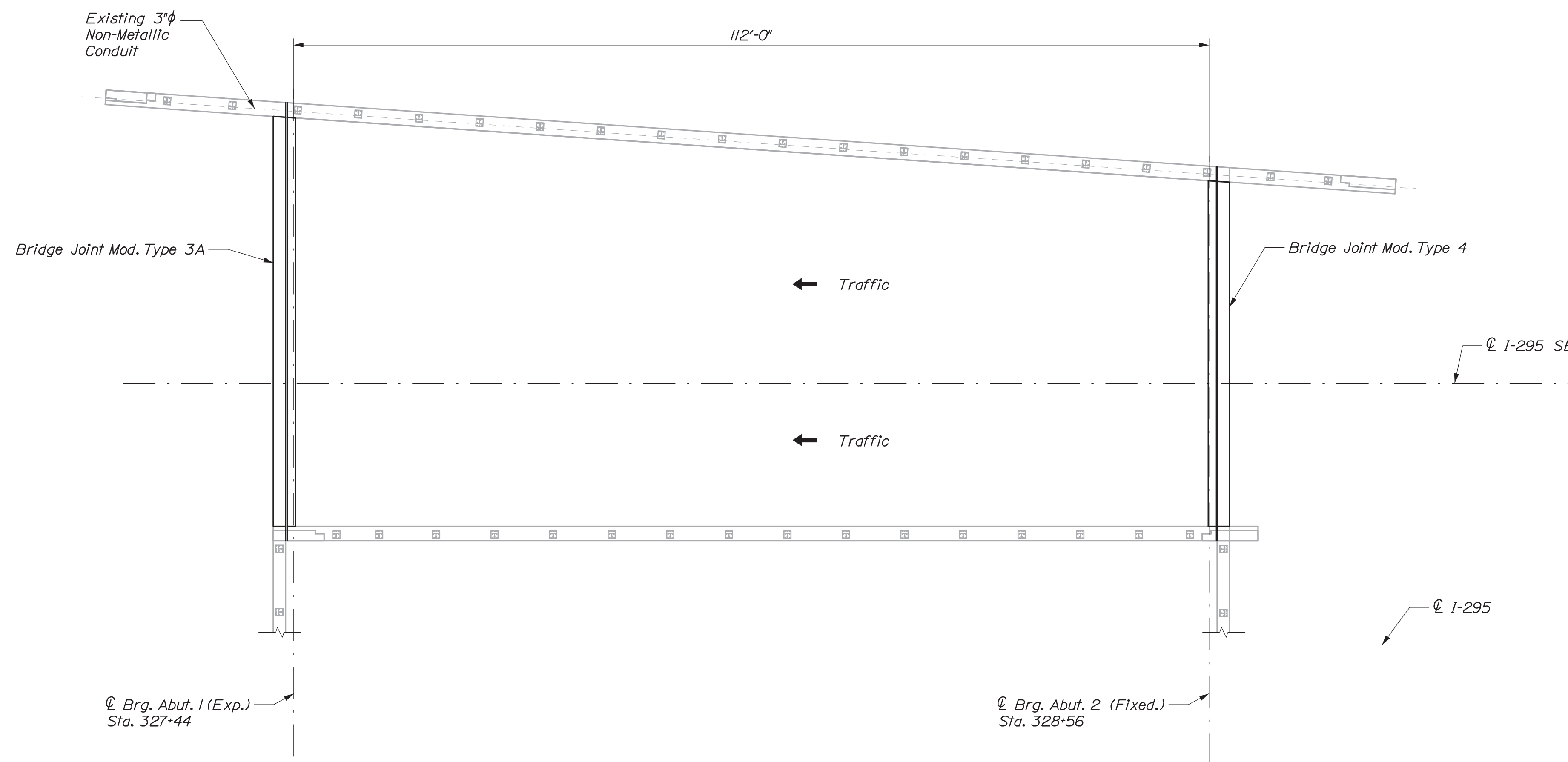
STATE OF MAINE DEPARTMENT OF TRANSPORTATION	2361501	WIN	023615.01	BRIDGE NO. 6539	BRIDGE PLANS
--	---------	-----	-----------	-----------------	--------------

PROJ. MANAGER	M. Kerstner	DATE	01/20
DESIGN DETAILED	G. Standley	BY	E. Brunsell
CHECKED/REVIEWED	A. Stephens	DATE	01/20
DESIGN DETAILED		SIGNATURE	
REVISIONS 1		P.E. NUMBER	
REVISIONS 2		DATE	
REVISIONS 3			
REVISIONS 4			
FIELD CHANGES			

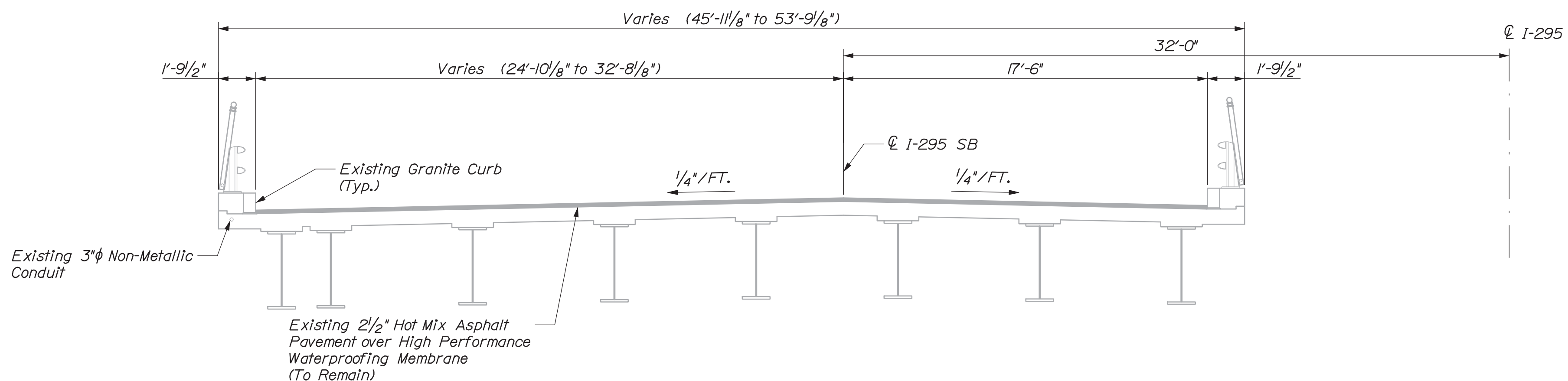
INTERSTATE 295 SOUTHBOUND	
S. PORTLAND TO PORTLAND	
CUMBERLAND COUNTY	
PLAN AND SECTION	
FOREST AVENUE	

SHEET NUMBER	13
OF 52	





INTERSTATE 295 SOUTHBOUND OVER PREBLE STREET
Portland ~ Bridge No. 6540



TRANSVERSE SECTION
N.T.S.

NOTES:

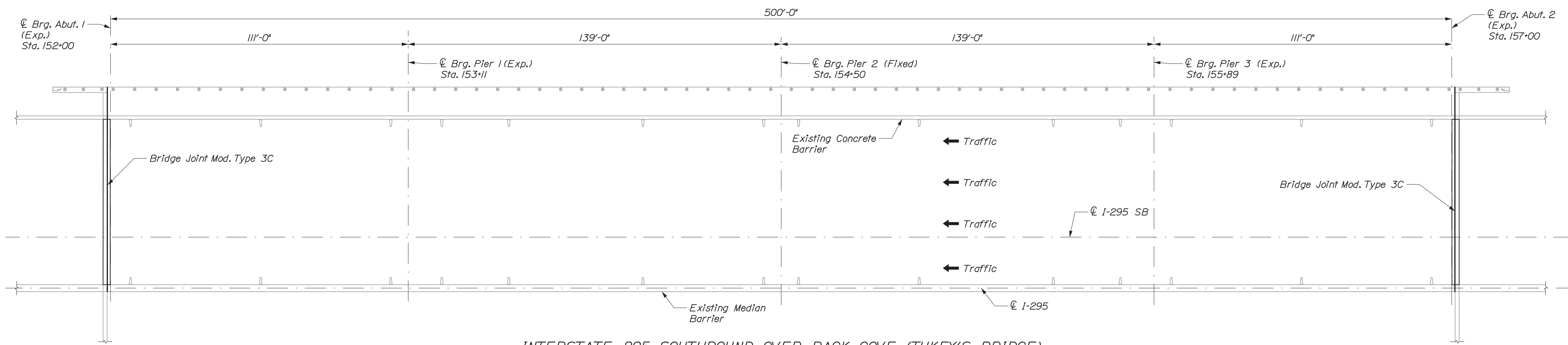
1. Contractor shall repair areas of concrete deck and backwall deterioration under and adjacent to the existing elastomeric header concrete as directed by the Resident. Locations of deck and backwall repairs are undetermined for this bridge. The Resident shall identify areas for deck and backwall repair after removing the existing header concrete and shall progress the repair work to reopen the travel lanes daily with temporary pavement and/or plating as required. Coordinate work with Resident. Payment for concrete repair work shall be under the 518 pay items.

STATE OF MAINE DEPARTMENT OF TRANSPORTATION 2361501		BRIDGE NO. 6540 WIN 023615.01 BRIDGE PLANS	
PROJ. MANAGER M. Kershaugen	DESIGN-DETAILED G. Standley	BY E. Brousseau	DATE 01/20
CHECKED-REVIEWED A. Stephens	DESIGN-REVIEWED T. Cole	BY T. Cole	DATE 01/20
DESIGN-DETAILED	DESIGN-REVIEWED	BY	DATE
REVISIONS 1	REVISIONS 1	BY	DATE
REVISIONS 2	REVISIONS 2	BY	DATE
REVISIONS 3	REVISIONS 3	BY	DATE
REVISIONS 4	REVISIONS 4	BY	DATE
FIELD CHANGES	FIELD CHANGES	BY	DATE
INTERSTATE 295 SOUTHBOUND S. PORTLAND TO PORTLAND CUMBERLAND COUNTY		PLAN AND SECTION PREBLE STREET	
SHEET NUMBER		14	
		OF 52	

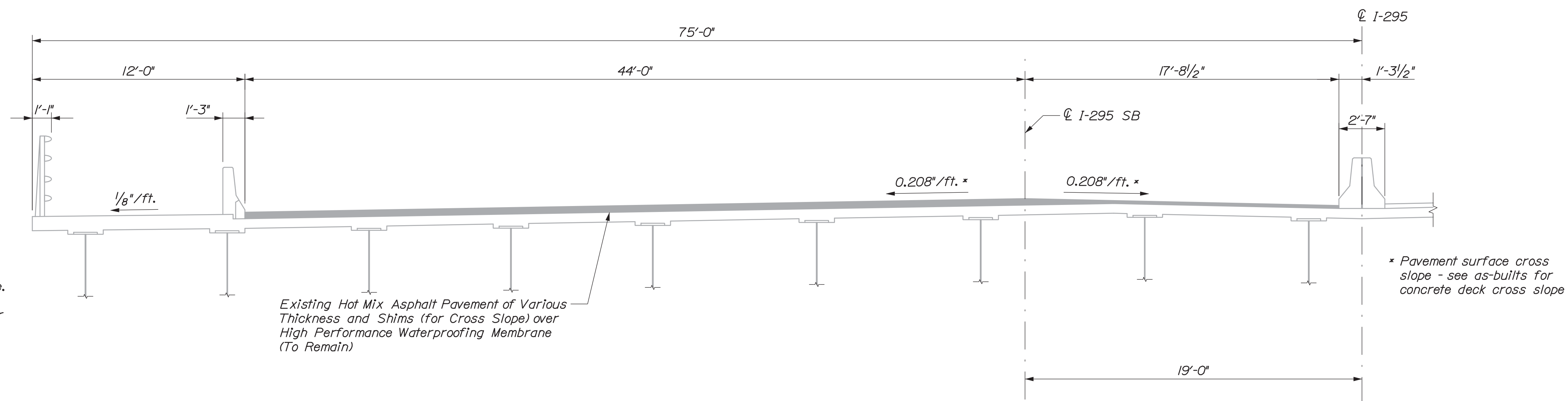
Date: 2/19/2020

Username:

Filename: 016_PlanSect - Tukeys Bridge - SB.dgn Division:



INTERSTATE 295 SOUTHBOUND OVER BACK COVE (TUKEY'S BRIDGE)
Portland ~ Bridge No. 3088

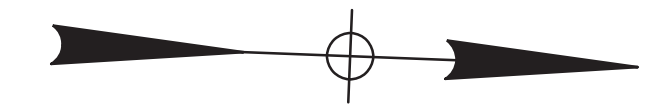


NOTES:
1. Contractor shall repair areas of concrete deck and backwall deterioration under and adjacent to the existing elastomeric header concrete as directed by the Resident. Locations of deck and backwall repairs are undetermined for this bridge. The Resident shall identify areas for deck and backwall repair after removing the existing header concrete and shall progress the repair work to reopen the travel lanes daily with temporary pavement and/or plating as required. Coordinate work with Resident. Payment for concrete repair work shall be under the 518 pay items.

Existing Hot Mix Asphalt Pavement of Various Thickness and Shims (for Cross Slope) over High Performance Waterproofing Membrane (To Remain)

* Pavement surface cross slope - see as-builts for concrete deck cross slope

TRANSVERSE SECTION
N.T.S.



STATE OF MAINE DEPARTMENT OF TRANSPORTATION 2361501		BRIDGE NO. 3088 WIN 023615.01 BRIDGE PLANS	
PROJ. MANAGER M. Kerstner/gen	BY E. Brunsfeld T. Cole	DATE 01/20 01/20	SIGNATURE
DESIGN/DETAILED G. Standley A. Stephens	CHECKED/REVIEWED A. Stephens T. Cole		P.E. NUMBER
DESIGNS/DETAILED			DATE
REVISIONS 1			
REVISIONS 2			
REVISIONS 3			
REVISIONS 4			
FIELD CHANGES			
INTERSTATE 295 SOUTHBOUND S. PORTLAND TO PORTLAND CUMBERLAND COUNTY		PLAN AND SECTION TUKEYS BRIDGE	
SHEET NUMBER		16	
		OF 52	

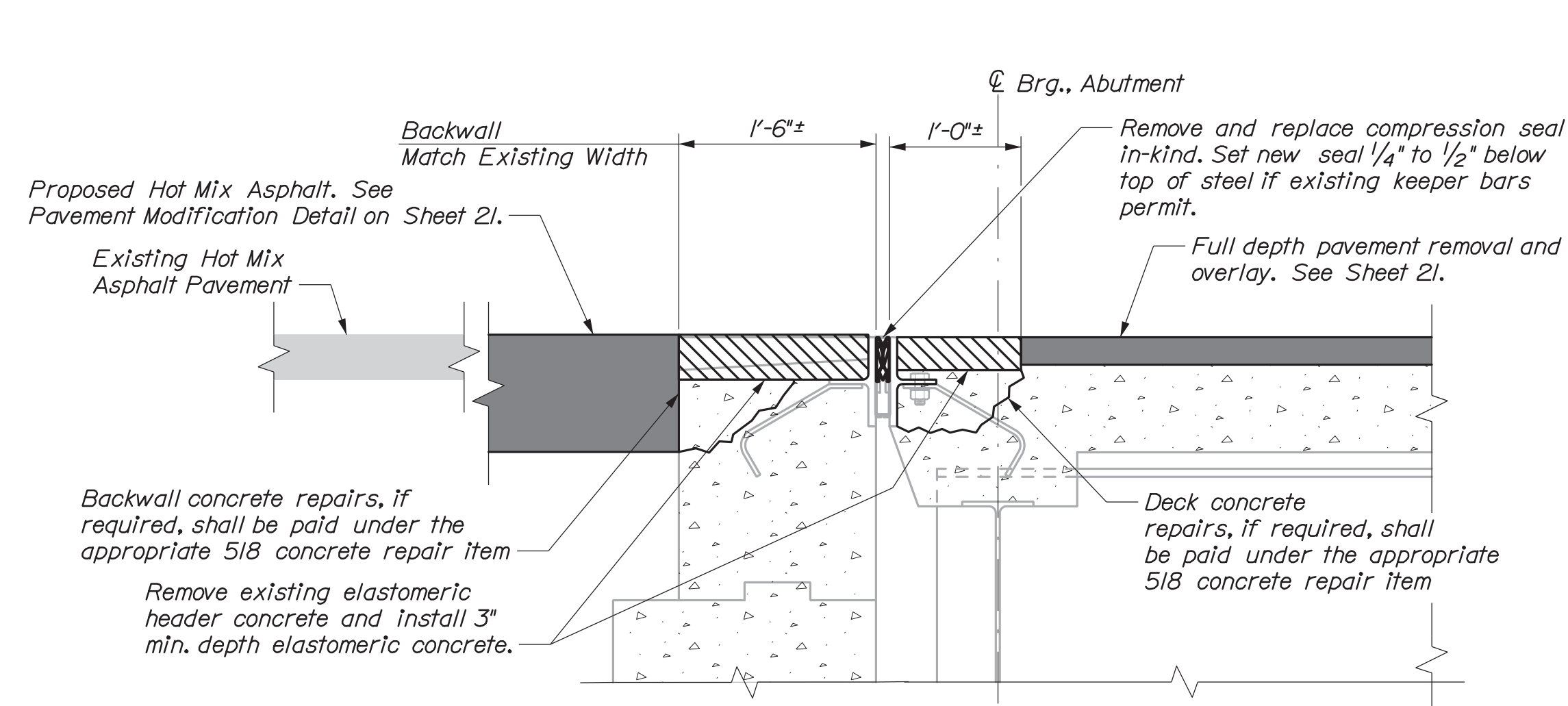


Date: 2/19/2020

Username:

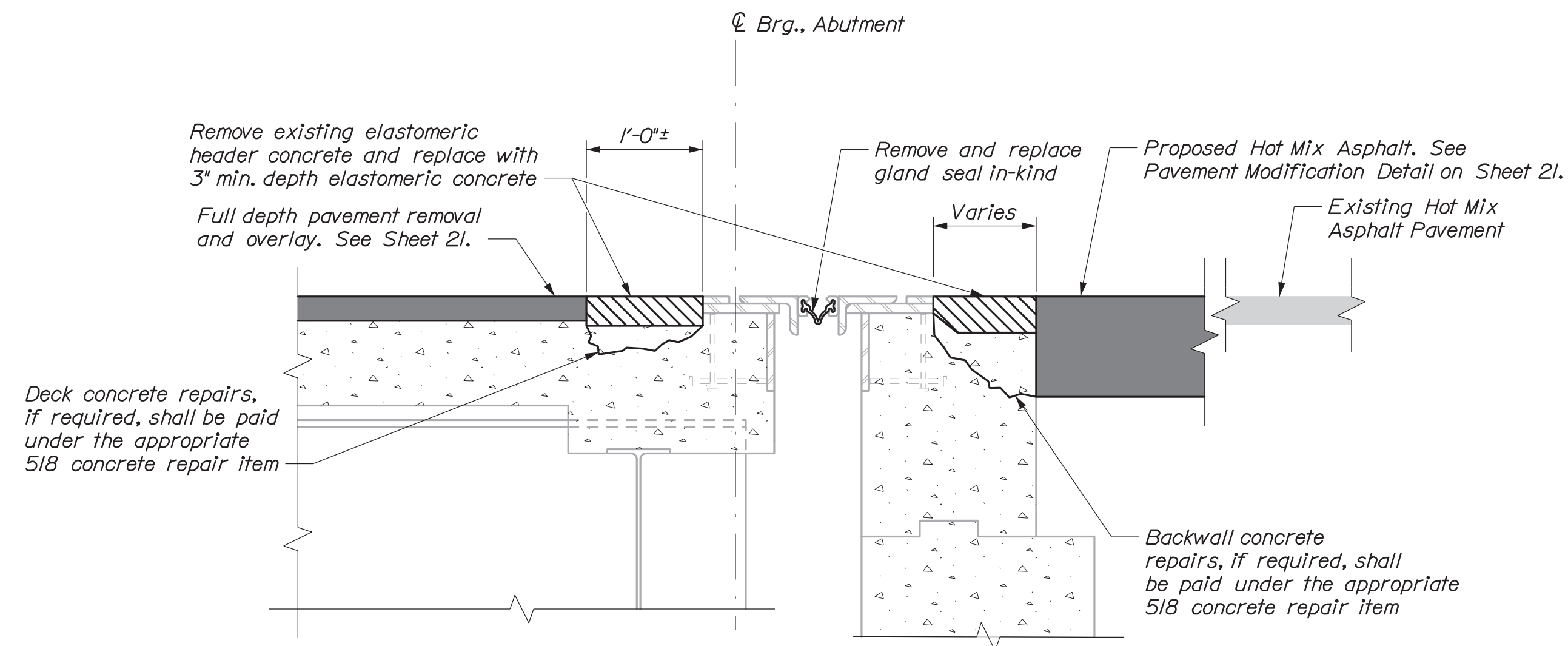
Division:

Filename: 017_Joint Modification Details 1.dgn



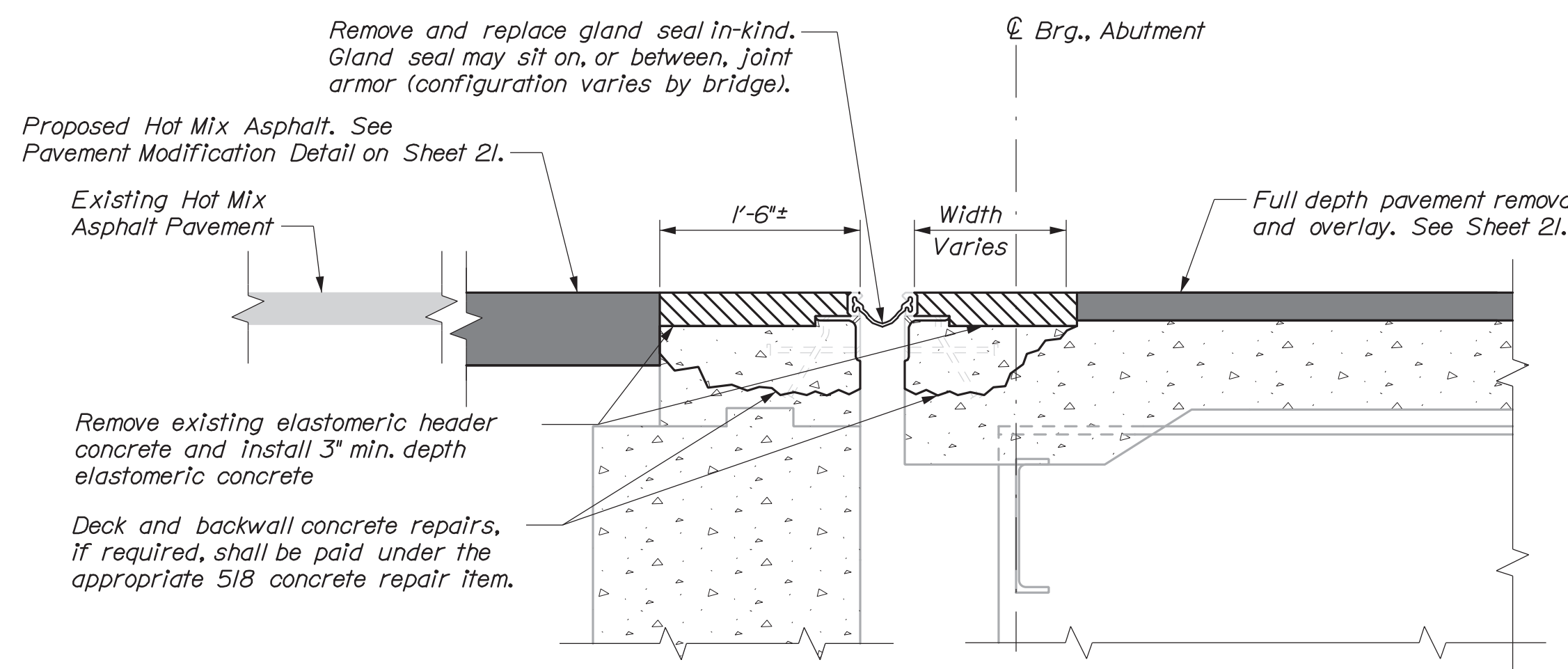
BRIDGE JOINT MODIFICATION TYPE 3A

Limits of joint modification:
 Compression seal - full deck width and completely through raised curbs plus six inch extensions per side;
 Elastomeric concrete - full deck width to face of raised curbs.



BRIDGE JOINT MODIFICATION TYPE 3B

Limits of joint modification:
 Gland seal - full deck width and partially through raised curbs (match limits of existing seal and extrusion)
 Elastomeric concrete - full deck width to face of raised curbs.



BRIDGE JOINT MODIFICATION TYPE 3C

Limits of joint modification:
 Gland seal - full deck width and partially through raised curbs (match limits of existing seal and extrusion)
 Elastomeric concrete - full deck width to face of raised curbs.

NOTES

1. Elastomeric concrete headers shall be set to the proposed roadway profile grade and deck cross slope established through the Contractor's field survey. See Special Provision 403.
2. All elastomeric header concrete shall be formed. Elastomeric header concrete shall not be cast against existing pavement.
3. The existing elastomeric header concrete shall be removed full depth on the deck and backwall. The As-Built Plans specified the elastomeric header concrete be installed to a minimum of 3 inches in depth. Actual conditions may vary.
4. After completing the elastomeric header concrete replacement, and associated joint armor, deck concrete and backwall concrete repairs:
 - a. Remove the existing deck bituminous pavement and membrane to the concrete deck surface a minimum of 5'-0" from the edge of the proposed elastomeric header concrete, apply a spray applied waterproofing membrane from the Qualified Products List and place HMA to the roadway profile grade and deck cross slope. Install a pavement transition down to the existing deck pavement. Payment for the spray applied waterproofing membrane shall be incidental to the related Contract Items.
 - b. Remove the existing approach (departure) bituminous pavement to the bottom of the deepest repair of the backwall and place HMA to the roadway profile grade and deck cross slope. Install a pavement transition down to the existing approach pavement.
5. Upon completion of the permanent HMA repairs mill and fill the deck and approaches per the details on Sheet 21.

PROJ. MANAGER	M. Kerstetter	DATE	01/20
DESIGN-DETAILED	G. Standley	BY	E. Beausoleil
CHECKED-REVIEWED	A. Stephens	DATE	01/20
DESIGN-DETAILED		SIGNATURE	
REVISIONS 1		P.E. NUMBER	
REVISIONS 2		DATE	
REVISIONS 3			
REVISIONS 4			
FIELD CHANGES			

INTERSTATE 295 SOUTHBOROUGH
S. PORTLAND TO PORTLAND
CUMBERLAND COUNTY
JOINT MODIFICATION
DETAILS I (TYPE 3A, 3B & 3C)

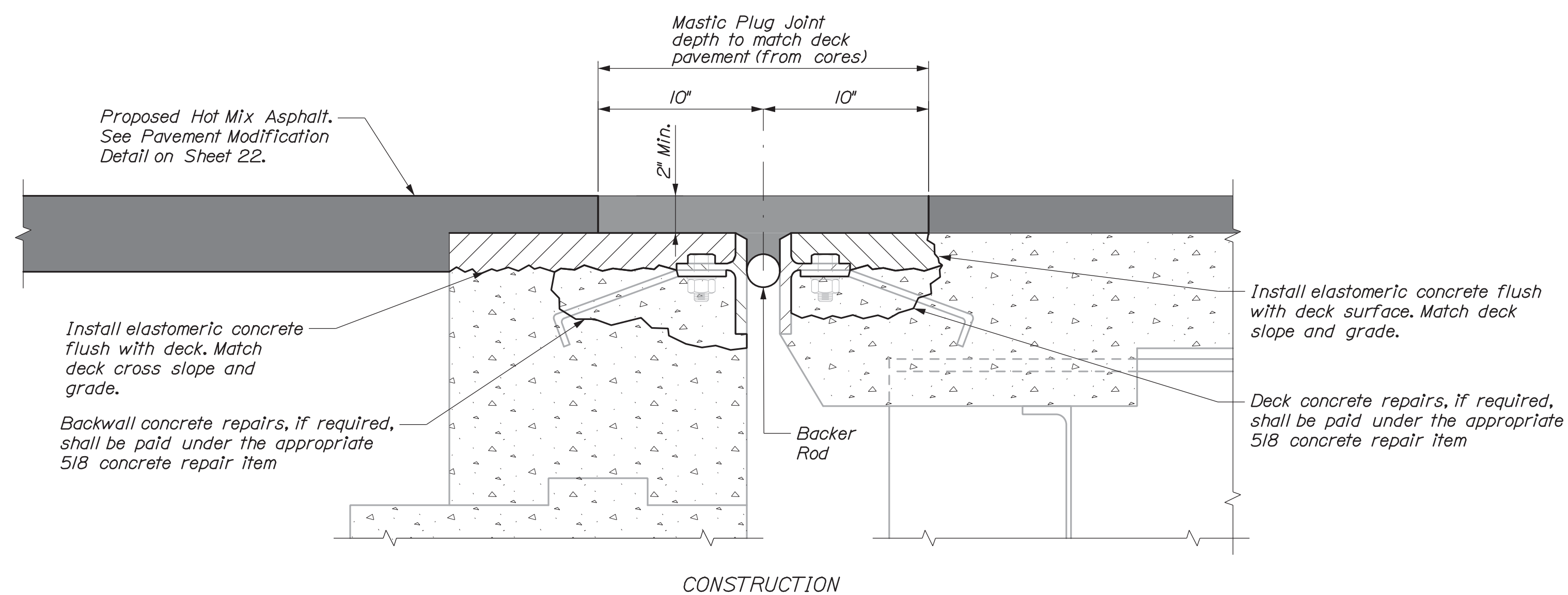
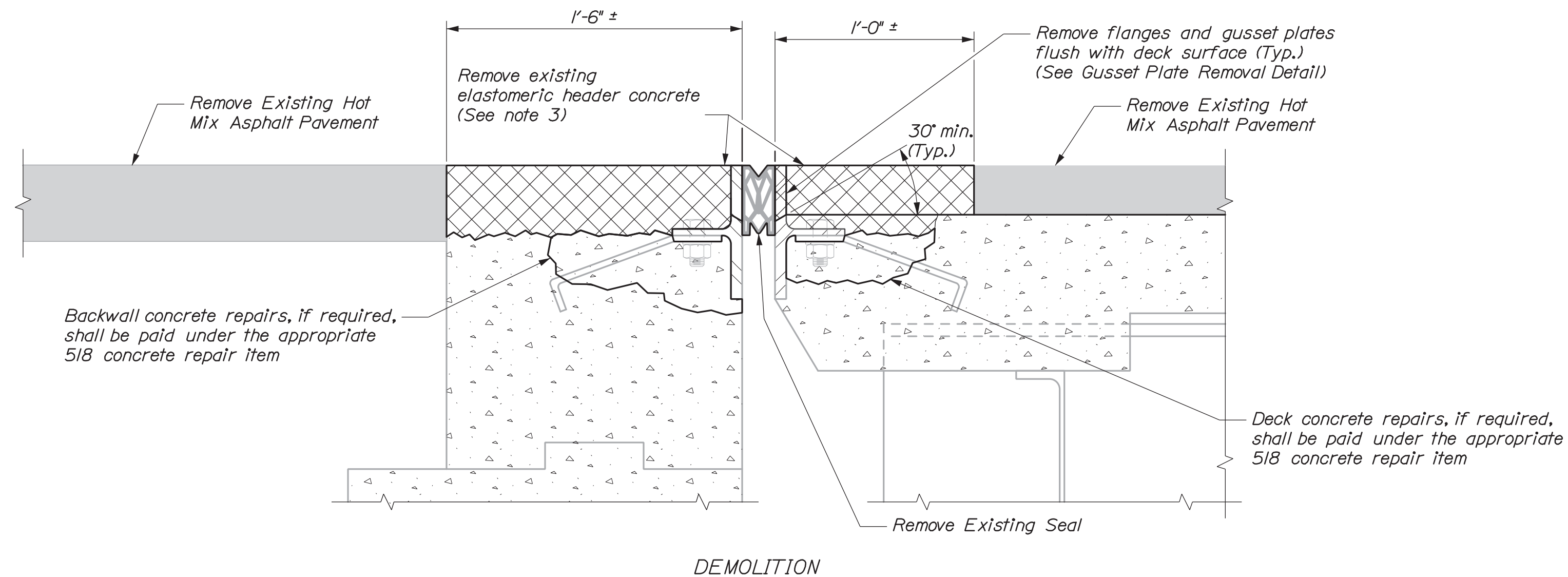
SHEET NUMBER
17
OF 52

Date: 2/19/2020

Username:

Division:

Filename: 018_Joint Modification Details 2.dgn

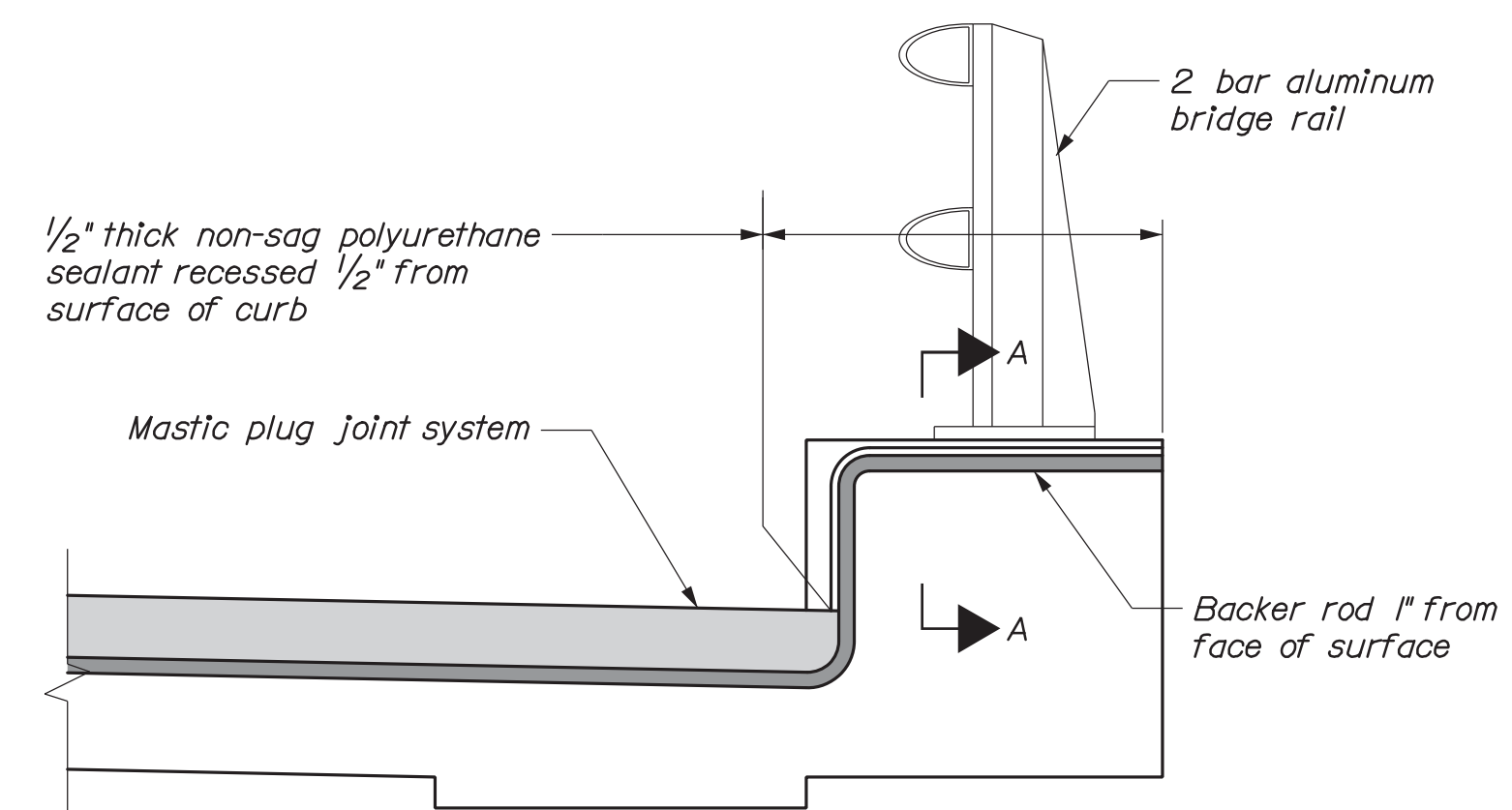


BRIDGE JOINT MODIFICATION TYPE 4

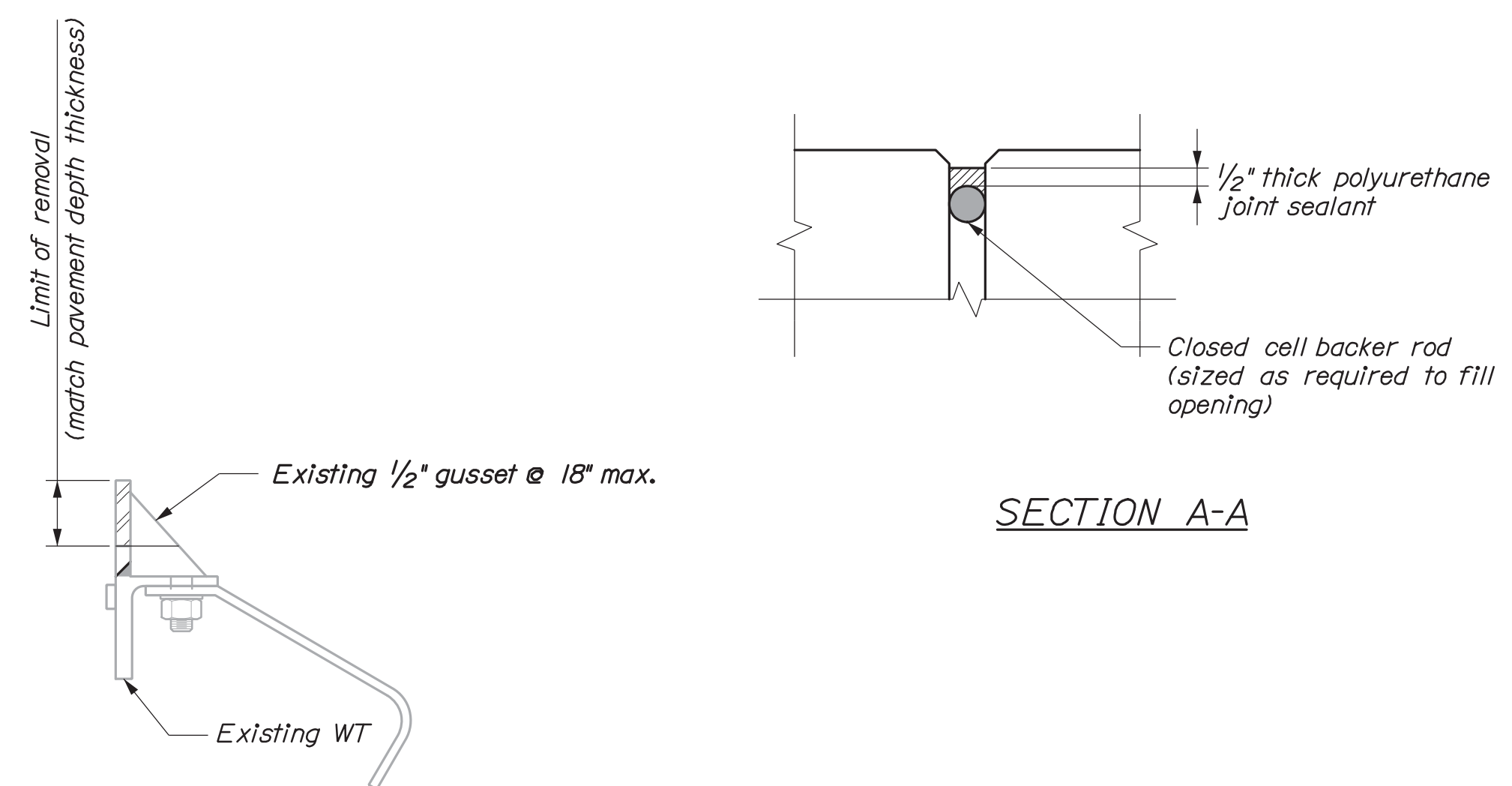
Limits of joint modification:
 Mastic joint, rapid concrete and joint armor modification
 - full deck width to face of raised curbs;
 Polyurethane sealant with backer rod - vertical face and full width of raised curbs.

NOTES

- Mastic plug joints shall be set to the proposed roadway profile grade and deck cross slope established through the Contractor's field survey. See Special Provision 403.
- All mastic plug joints shall be cast against newly placed HMA on the deck and backwall. Mastic joints shall not be placed against existing pavement.
- The existing elastomeric header concrete shall be removed full depth on the deck and backwall. The As-Built Plans specified the elastomeric header concrete be installed to a minimum of 3 inches in depth. Actual conditions may vary.
- After completing the joint armor modifications, deck concrete and backwall concrete repairs, and recasting the deck and backwall to match the existing concrete deck surface profile -
 - Remove the existing deck bituminous pavement and membrane to the concrete deck surface a minimum of 5'-0" from the edge of the proposed mastic joint, apply a spray applied waterproofing membrane for the Qualified Products List and place HMA to the roadway profile grade and deck cross slope. Install a pavement transition down to the existing deck pavement. Payment for the spray applied waterproofing membrane shall be incidental to the related Contract Items.
 - Remove the existing approach (departure) bituminous pavement to the bottom of the deepest repair of the backwall and place HMA to the roadway profile grade and deck cross slope including paving over the proposed mastic joint location. Install a pavement transition down to the existing approach pavement.
- Upon completion of the permanent HMA repairs mill and fill the deck and approaches per the detail on Sheet 22; sawcut and remove the pavement in the mastic plug joint area, and install the mastic plug joint.



JOINT TREATMENT AT BRIDGE CURB



GUSSET PLATE REMOVAL DETAIL

STATE OF MAINE	DEPARTMENT OF TRANSPORTATION	2361501	WIN	023615.01	BRIDGE PLANS
----------------	------------------------------	---------	-----	-----------	--------------

PROJ. MANAGER	BY	DATE	SIGNATURE	P.E. NUMBER	DATE
M. Kerstner/gen	E. Brunsfeld	01/20			
DESIGN-DETAILED	G. Standley				
CHECKED-REVIEWED	A. Stephens				
DESIGN-DETAILED	T. Cole				
REVISIONS 1					
REVISIONS 2					
REVISIONS 3					
REVISIONS 4					
FIELD CHANGES					

INTERSTATE 295 SOUTHBORD
 S. PORTLAND TO PORTLAND
 CUMBERLAND COUNTY
**JOINT MODIFICATION
 DETAILS II (TYPE 4)**

SHEET NUMBER	18
	OF 52



BRIDGE JOINT MODIFICATION TYPE 5 NOTES:

- Each joint consists of one backwall element and one superstructure element (or two superstructure elements over piers) with expansion dams as required.
- Refer to superstructure plan and transverse section for dimensions, slopes, skew and all other information necessary to fabricate and install each expansion device. The curb plates shall be flush or slightly recessed from the concrete faces to avoid catching plows.
- The Expansion Device shall be fabricated to be installed normal to grade.
- Submit the selected seal to the Department with the shop drawings.
- Prior to the installation of the seal the steel surfaces to receive the adhesive shall be blast cleaned and solvent washed per the seal manufacturer's instructions.
- All reinforcing steel shall be #5 bar unless noted otherwise.
- All adjustment angles shall be welded after final position adjustments are made.
- Welding to reinforcing steel is allowed in the top of the abutment backwall above the block-out joint.
- See "Joint Modification Details IV" for Detail A.

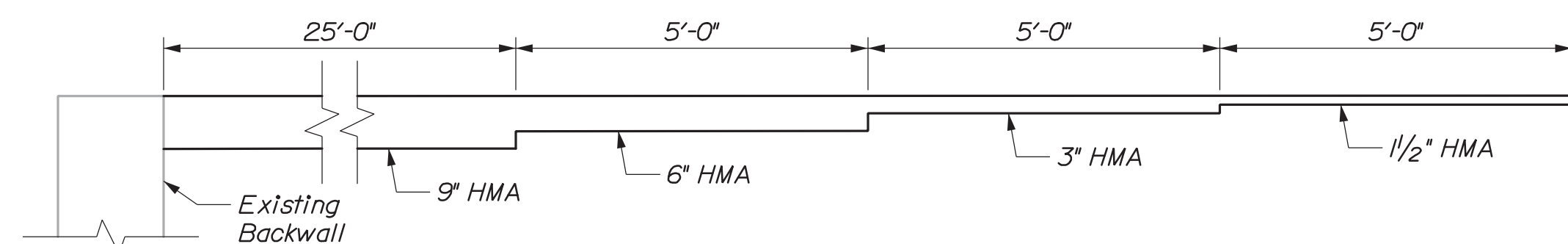
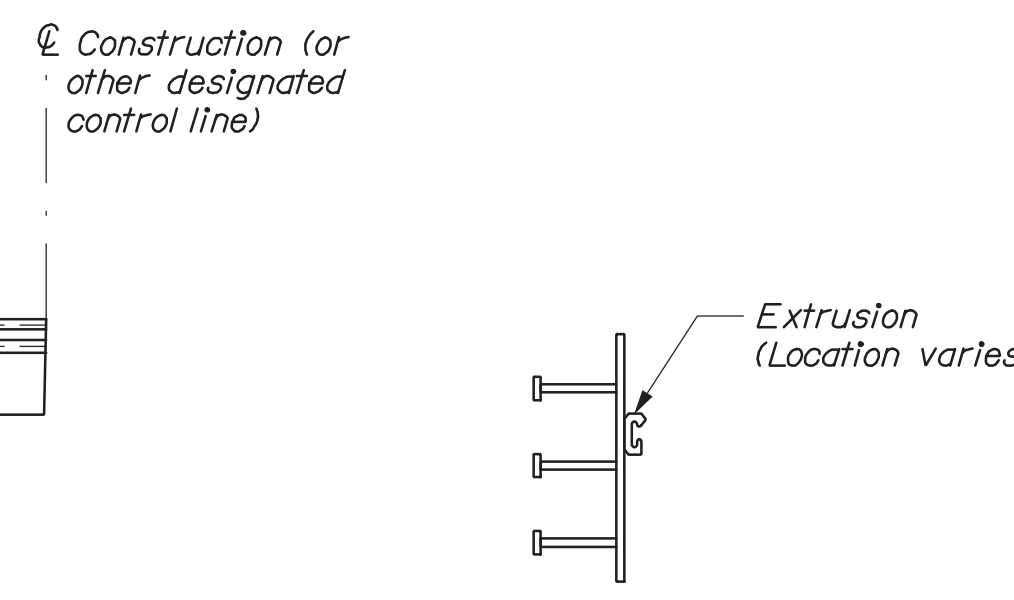
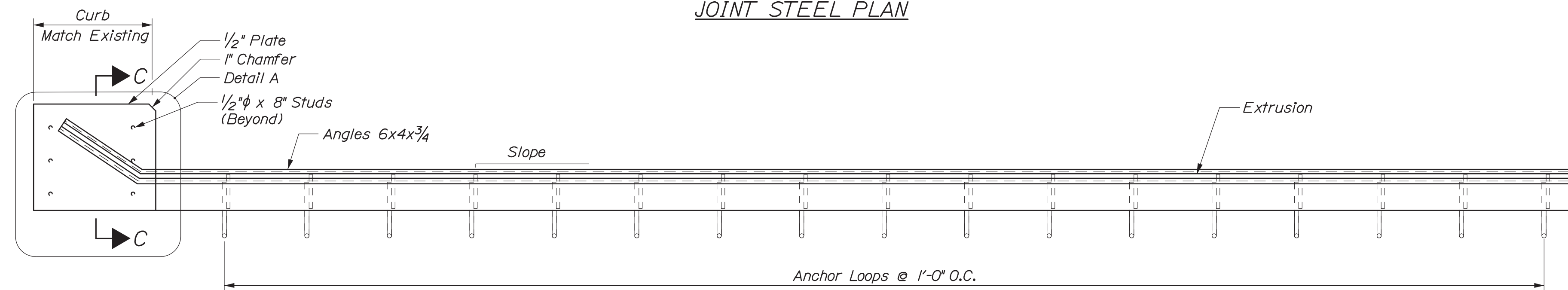
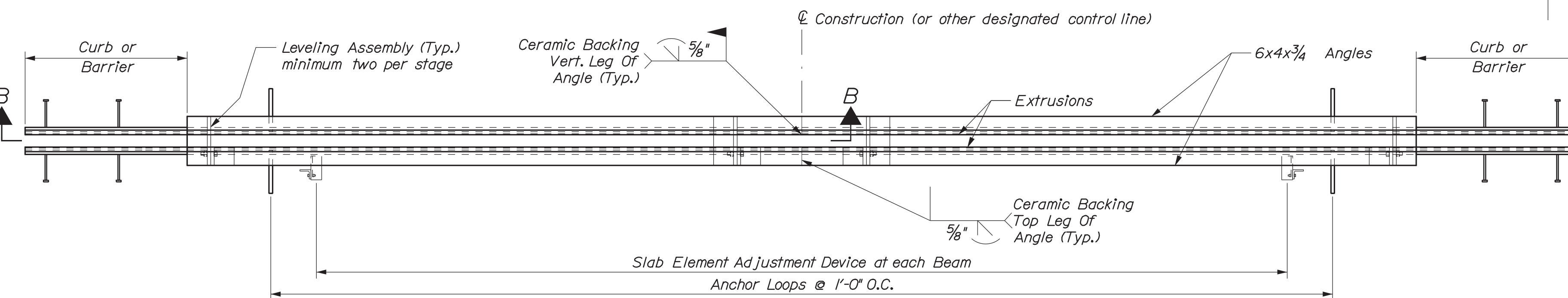
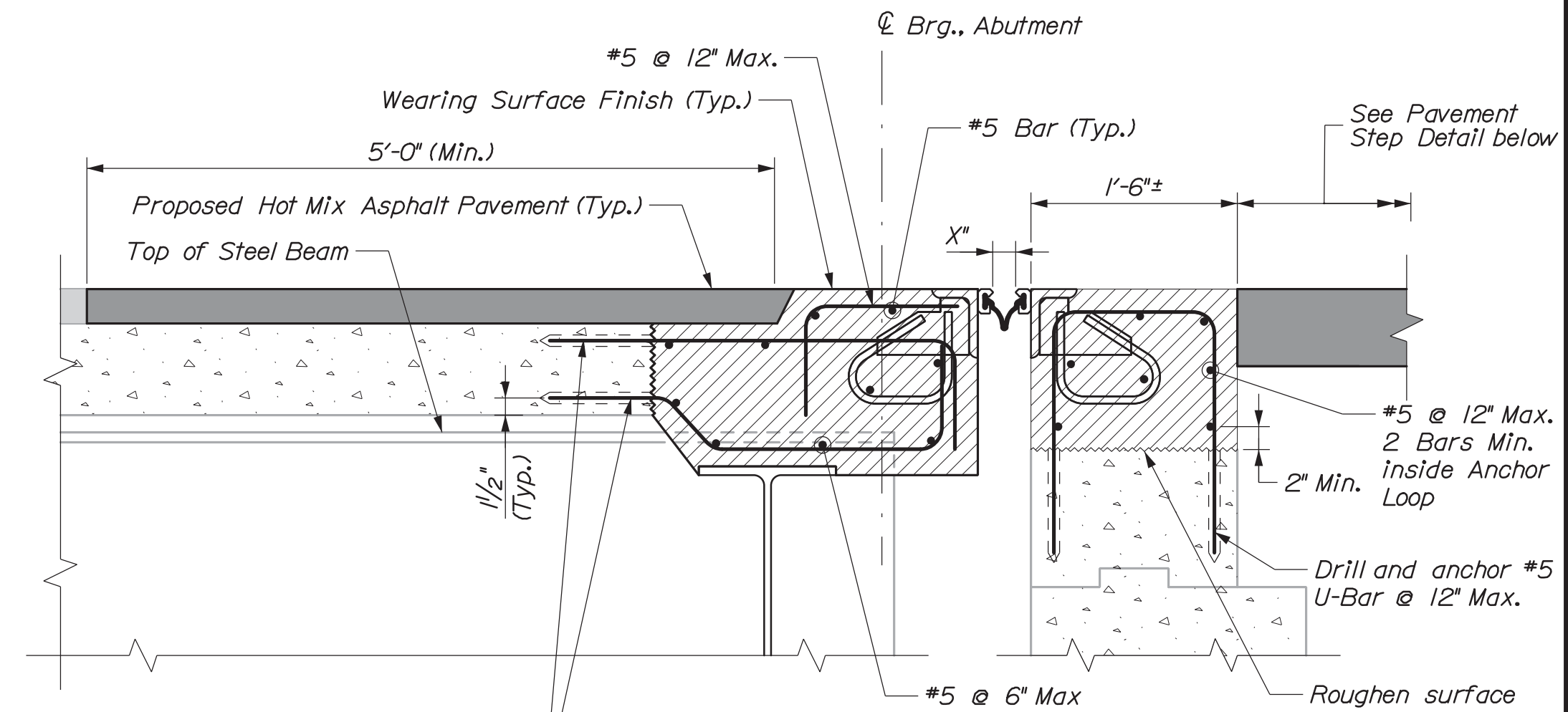
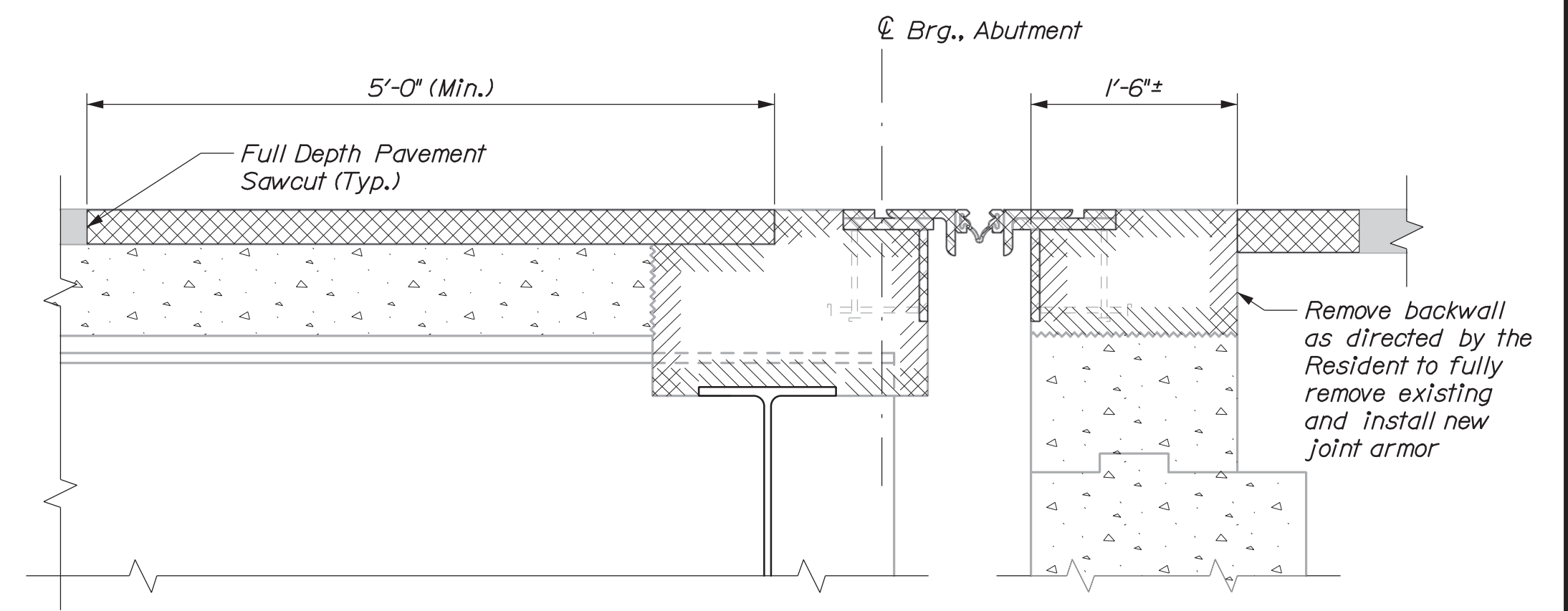
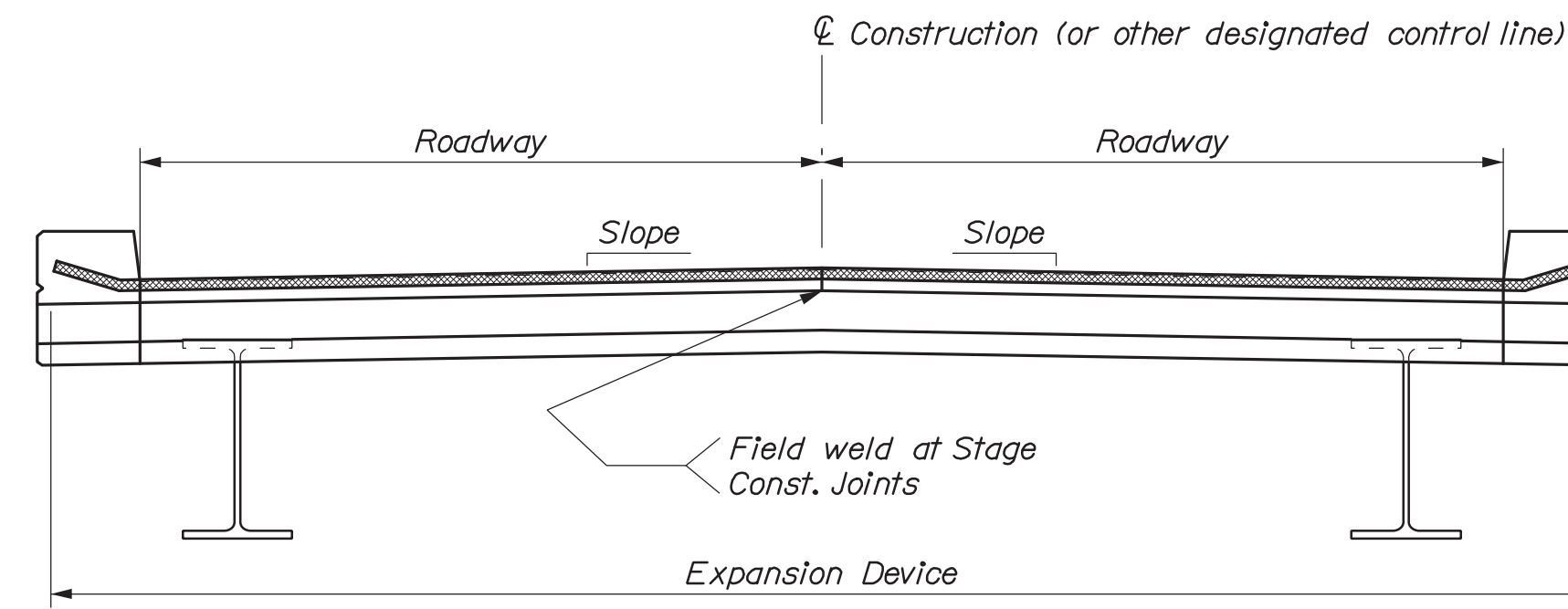
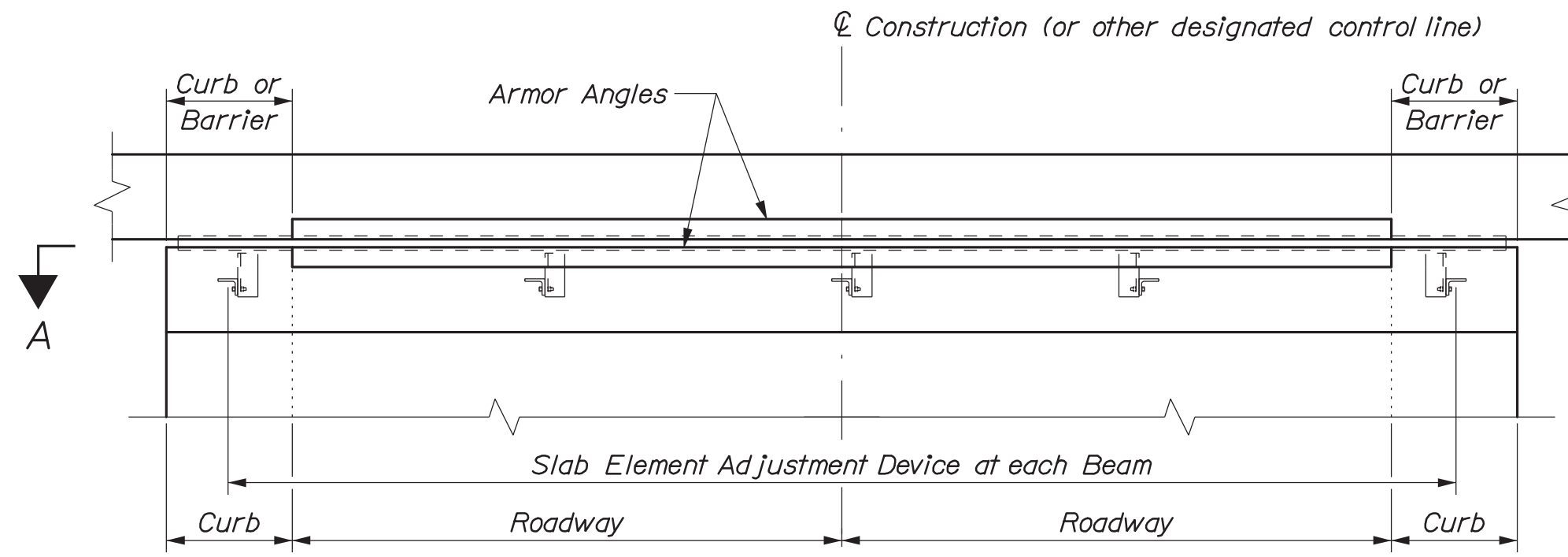
JOINT OPENING

The Expansion Device shall be set to an opening of 2" inches in the fabrication shop. The joint opening shall be adjusted for temperature in the field at the time of installation using the following formula:

$$X'' = 0.00008 \times D' \times \Delta T = \text{Adjustment (in inches)}$$

"D" is the distance in feet between the backwall and the nearest fixed bearing (for joints at abutments) or between the fixed bearings at either side of the expansion joint (for joints at piers). "ΔT" is the difference between the temperature of the bridge girders and 45° F.

A structure temperature above 45° F will result in a smaller joint opening.



BRIDGE JOINT MODIFICATION TYPE 5
(See also "Reconstructed Curb & Overhang Detail" on "Concrete Transition Barrier Details II")

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION
2361501
WIN
023615.01
BRIDGE PLANS

PROJ. MANAGER	DATE	BY	DATE	SIGNATURE	P.E. NUMBER	DATE
M. Kerstner	01/20	E. Brunsell	01/20			
C. Standley		A. Stephens				
T. Cole						
DESIGN DETAILED		DESIGN DETAILED				
DESIGNED		DESIGNED				
REVISIONS 1		REVISIONS 2				
REVISIONS 3		REVISIONS 4				
FIELD CHANGES						

INTERSTATE 295 SOUTHWEST
S. PORTLAND TO PORTLAND
CUMBERLAND COUNTY
JOINT MODIFICATION
DETAILS III (TYPE 5)

SHEET NUMBER
19
OF 52



Date: 2/19/2020

Username:

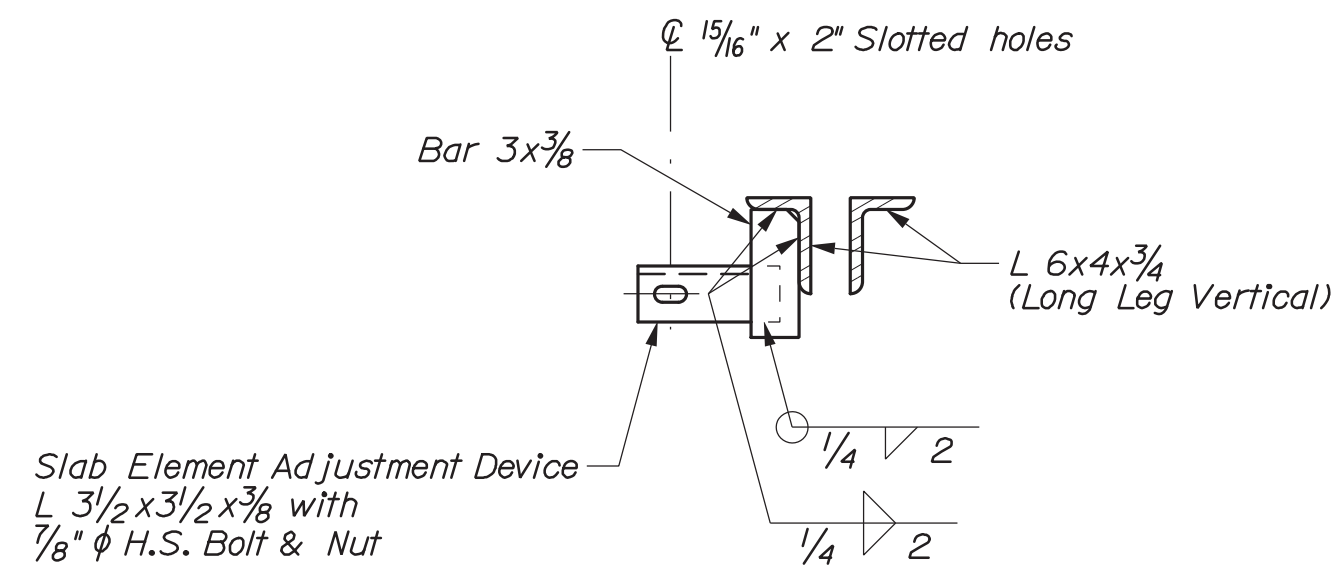
Division:

Filename: 019_Joint Modification Details 3.dgn

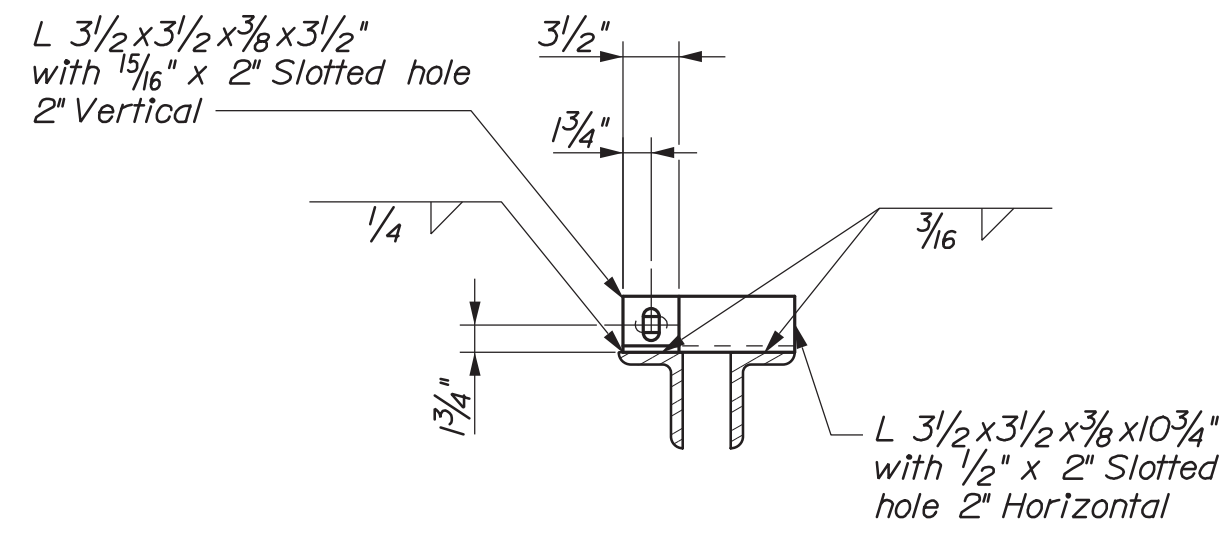
Date: 2/19/2020

Username:

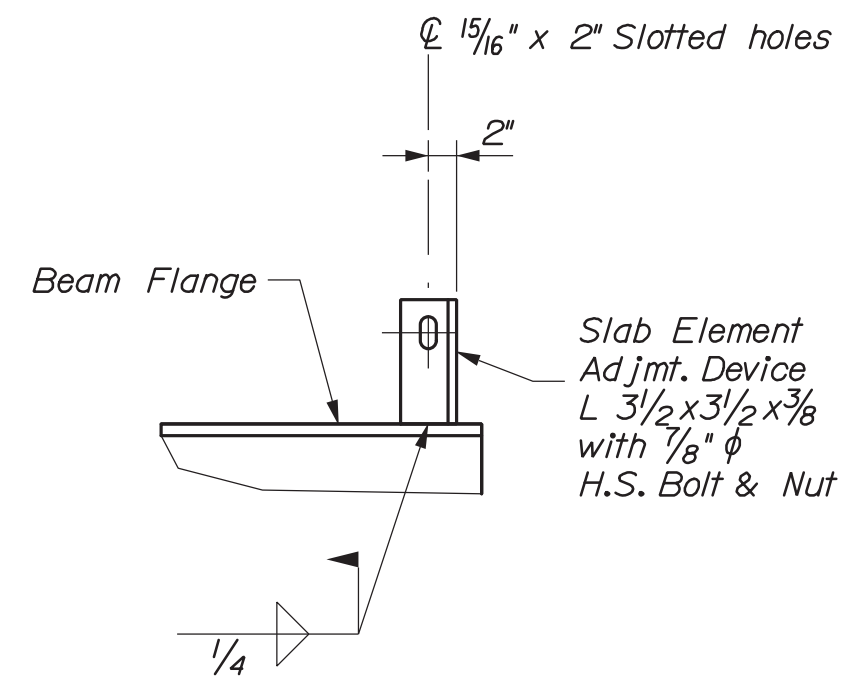
Filename: 020_Joint Modification Details 4.dgn Division:



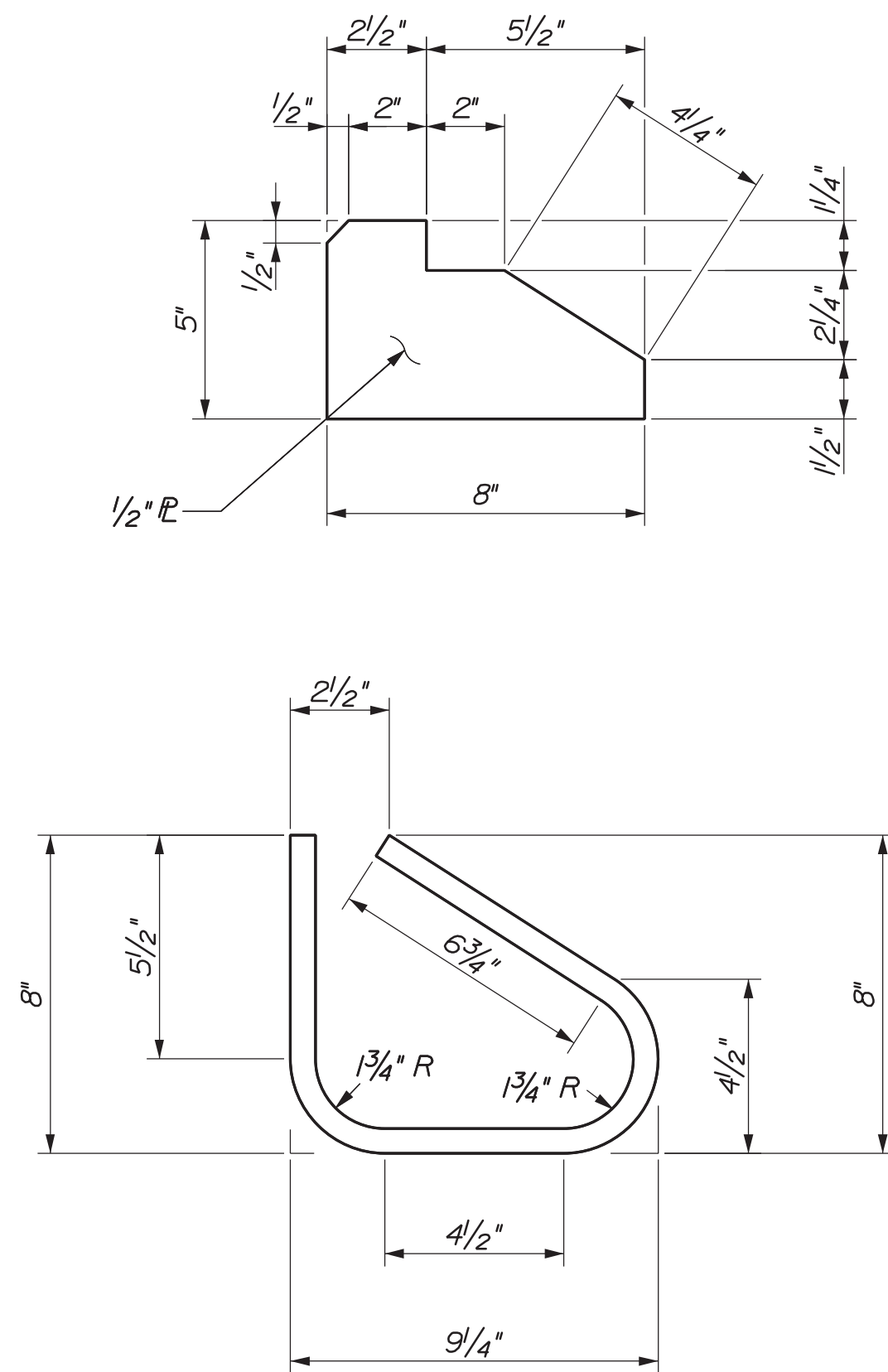
SLAB ELEMENT ADJUSTMENT DEVICE



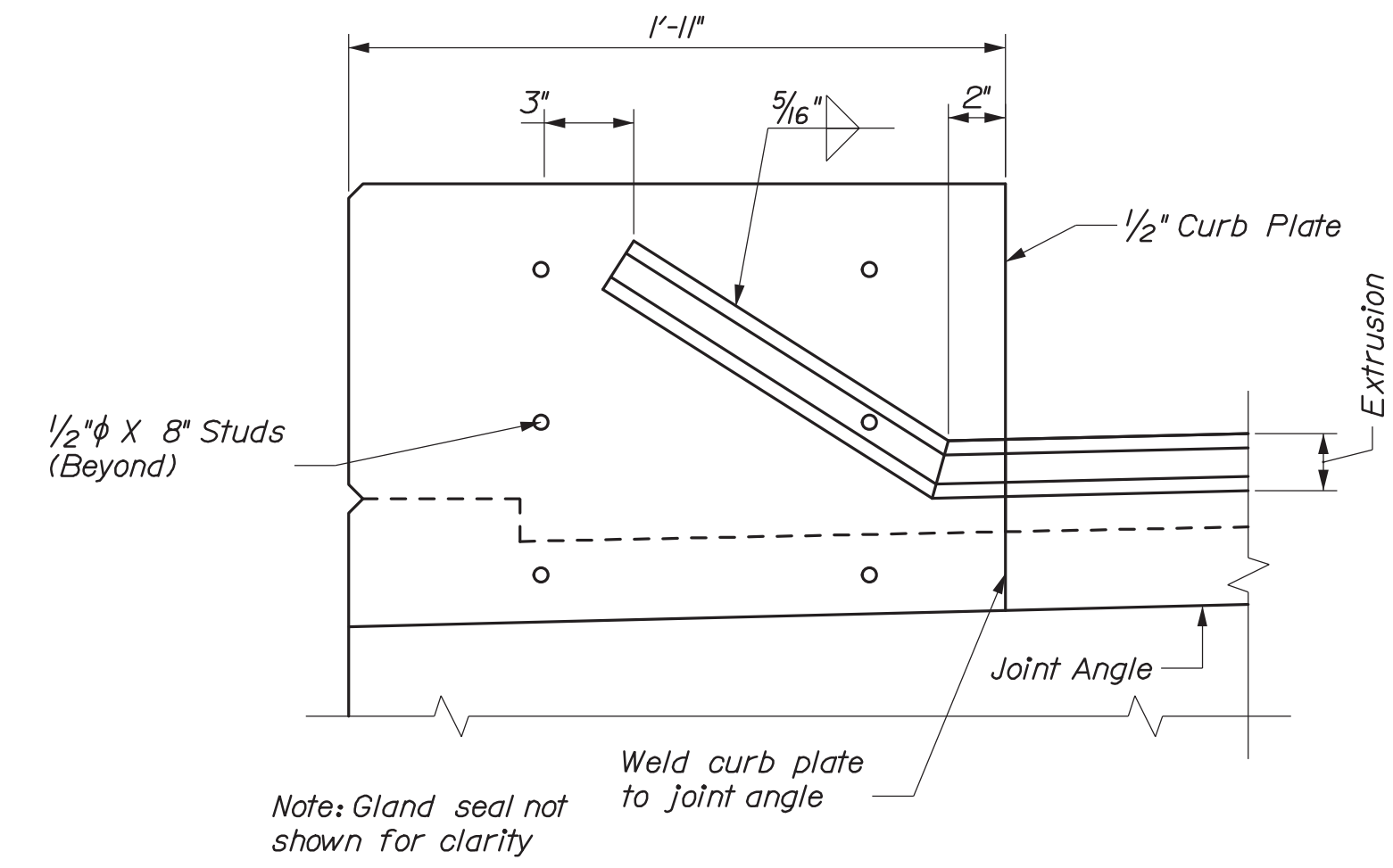
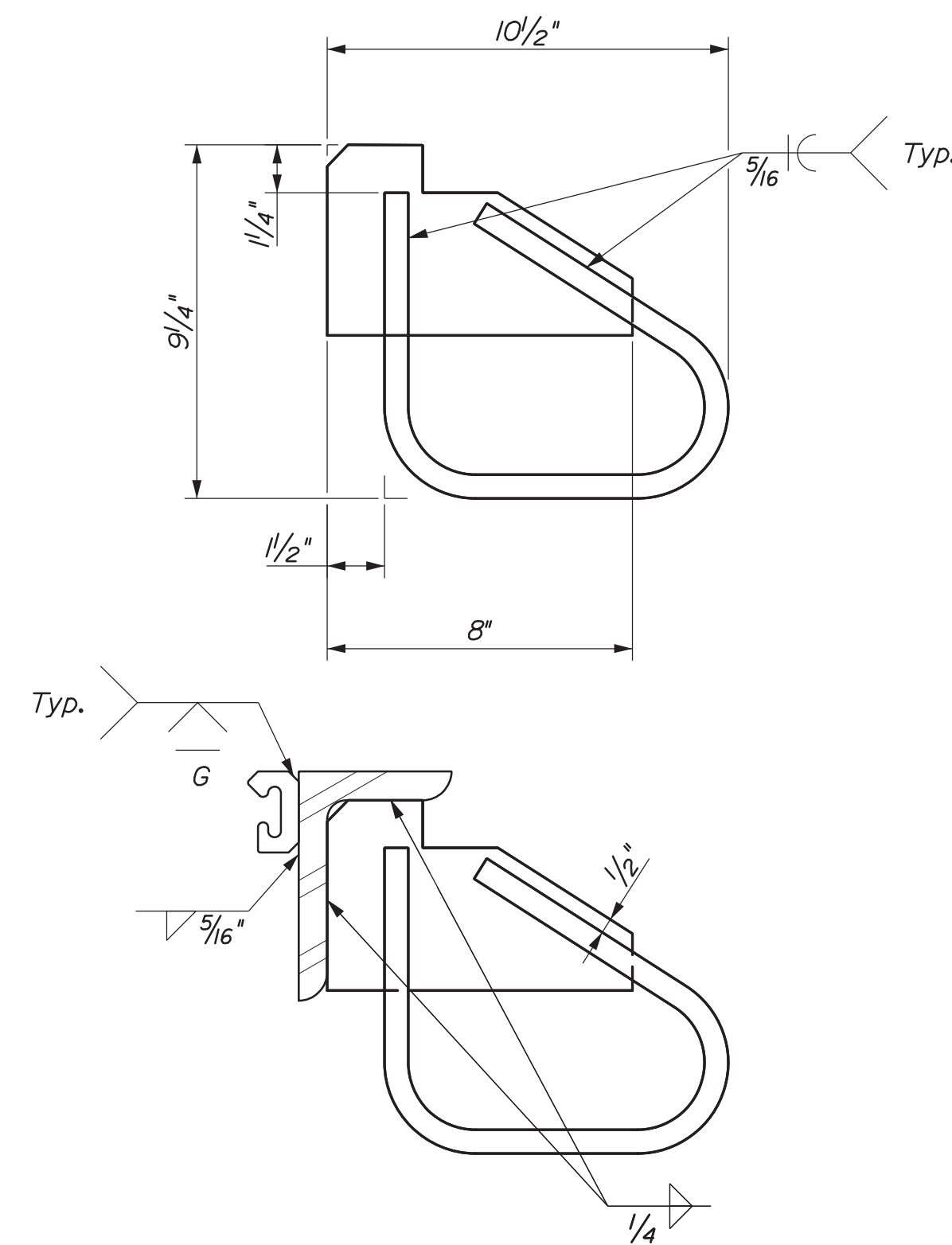
LEVELING ASSEMBLY



SLAB ADJUSTMENT DEVICE ATTACHMENT



ANCHOR LOOP DETAILS



DETAIL A

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

2361501

WIN
023615.01

BRIDGE PLANS

SIGNATURE

P.E. NUMBER

DATE

PROJ. MANAGER	BY	DATE
M. Kerstner	E. Brunsell	01/20
G. Standley	T. Cole	01/20

INTERSTATE 295 SOUTHBOND
S. PORTLAND TO PORTLAND
CUMBERLAND COUNTY

JOINT MODIFICATION
DETAILS IV (TYPE 5)

SHEET NUMBER

20

OF 52

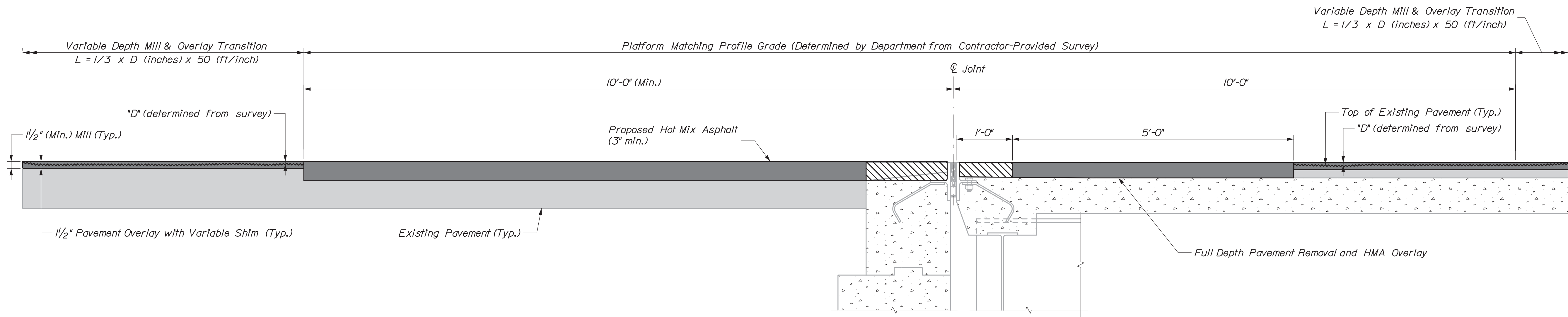


Date: 2/19/2020

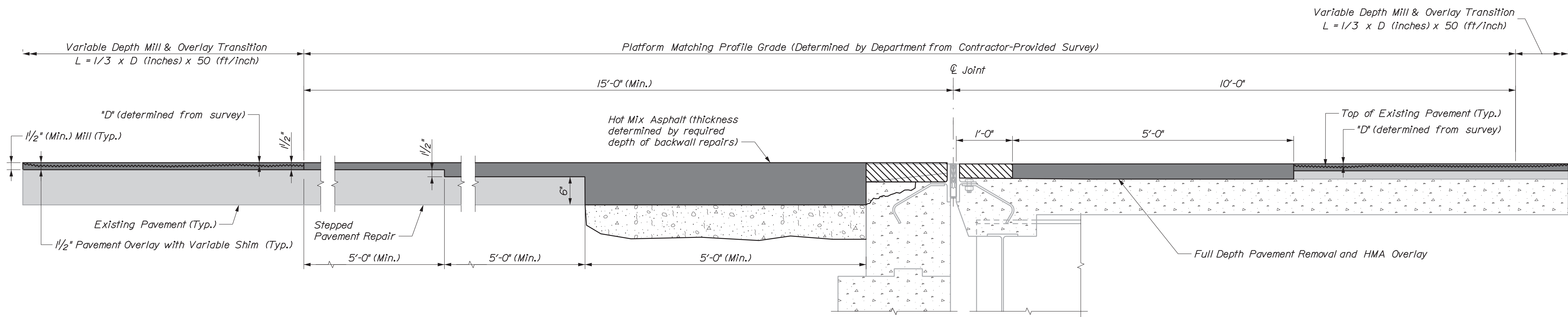
Username:

Division:

Filename: 021_Joint Modification Details 5.dgn



PROFILE GRADE CORRECTION (WITH NO BACKWALL REPAIRS)



PROFILE GRADE CORRECTION (WITH BACKWALL REPAIRS)

PAVEMENT MODIFICATION - BRIDGE JOINT MODIFICATION TYPE 3

Bridge Joint Modification Type 3A as shown, Types 3B and 3C similar
(Backwall - Left, Deck - Right as shown)
(Deck - Left, Backwall - Right similar)

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION
2361501
WIN
023615.01
BRIDGE PLANS

PROJ. MANAGER	BY	DATE	SIGNATURE	P.E. NUMBER	DATE
M. Kersting	E. Brunsell	01/20			
DESIGN DETAILED	G. Standley	01/20			
CHECKED/REVIEWED	A. Stephens				
DESIGN DETAILED	T. Cole				
REVISIONS 1					
REVISIONS 2					
REVISIONS 3					
REVISIONS 4					
FIELD CHANGES					

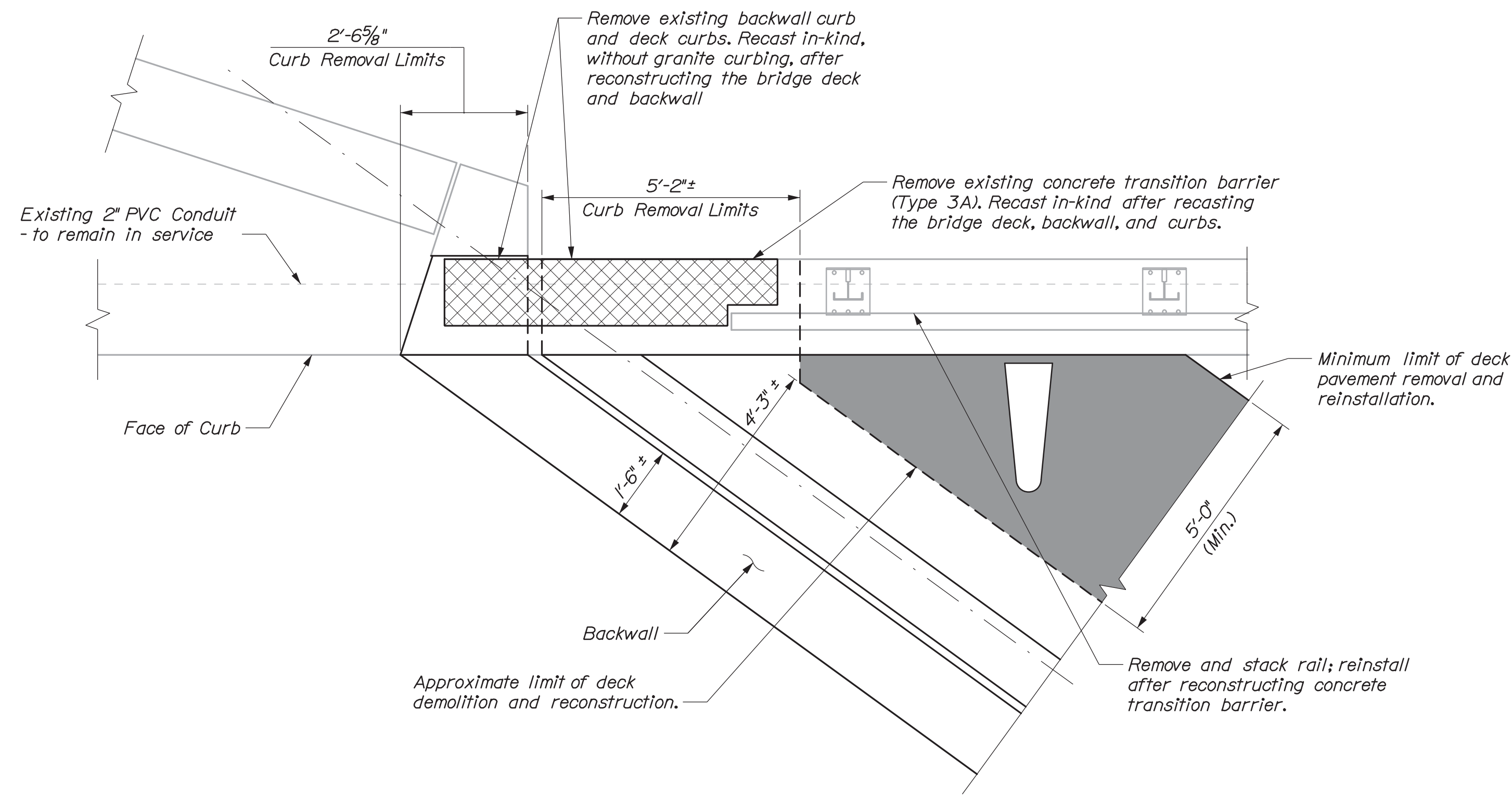
INTERSTATE 295 SOUTHBOND
S. PORTLAND TO PORTLAND
CUMBERLAND COUNTY
JOINT MODIFICATION
DETAILS V

SHEET NUMBER

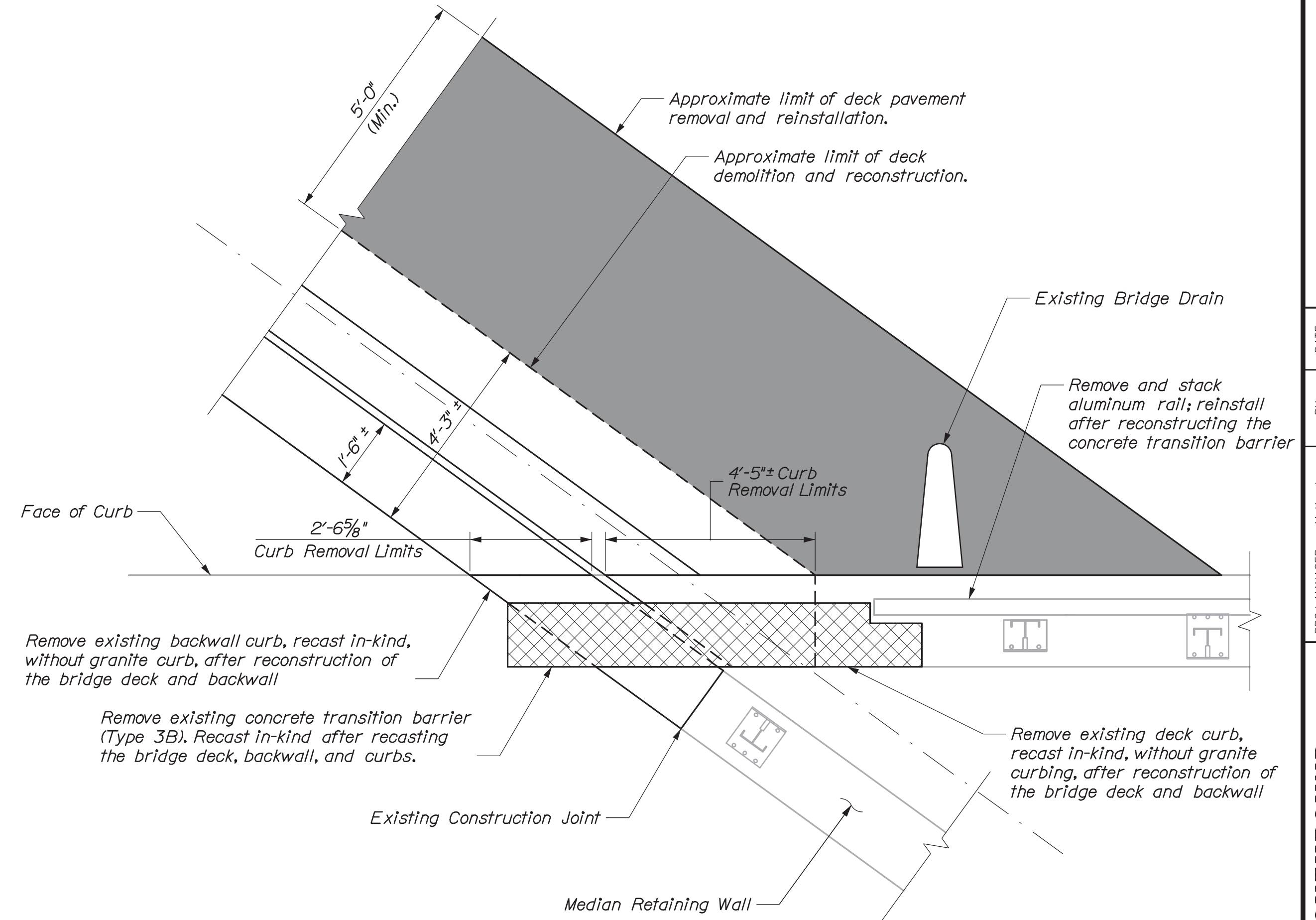
21

OF 52





DETAIL A



DETAIL B

PROJ. MANAGER	BY	DATE	SIGNATURE	P.E. NUMBER	DATE
M. Kersting	E. Beausoleil	01/20			
DESIGN DETAILED	G. Standley	01/20			
CHECKED/REVIEWED	A. Stephens				
DESIGN DETAILED					
REVISIONS 1					
REVISIONS 2					
REVISIONS 3					
REVISIONS 4					
FIELD CHANGES					

INTERSTATE 295 SOUTHBOUND
S. PORTLAND TO PORTLAND
CUMBERLAND COUNTY
CONCRETE TRANSITION
BARRIER DETAILS I

SHEET NUMBER

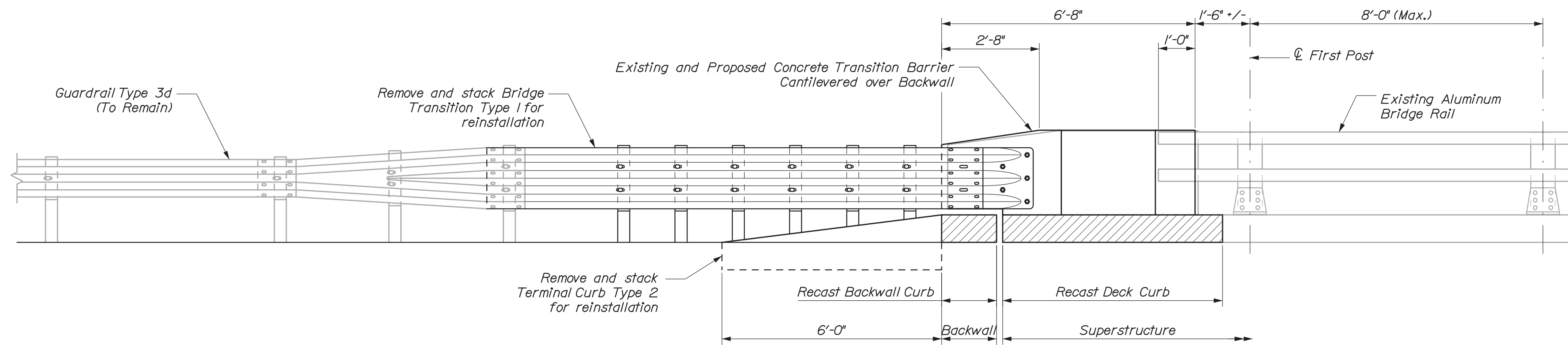
23

OF 52

Date: 2/19/2020

Username:

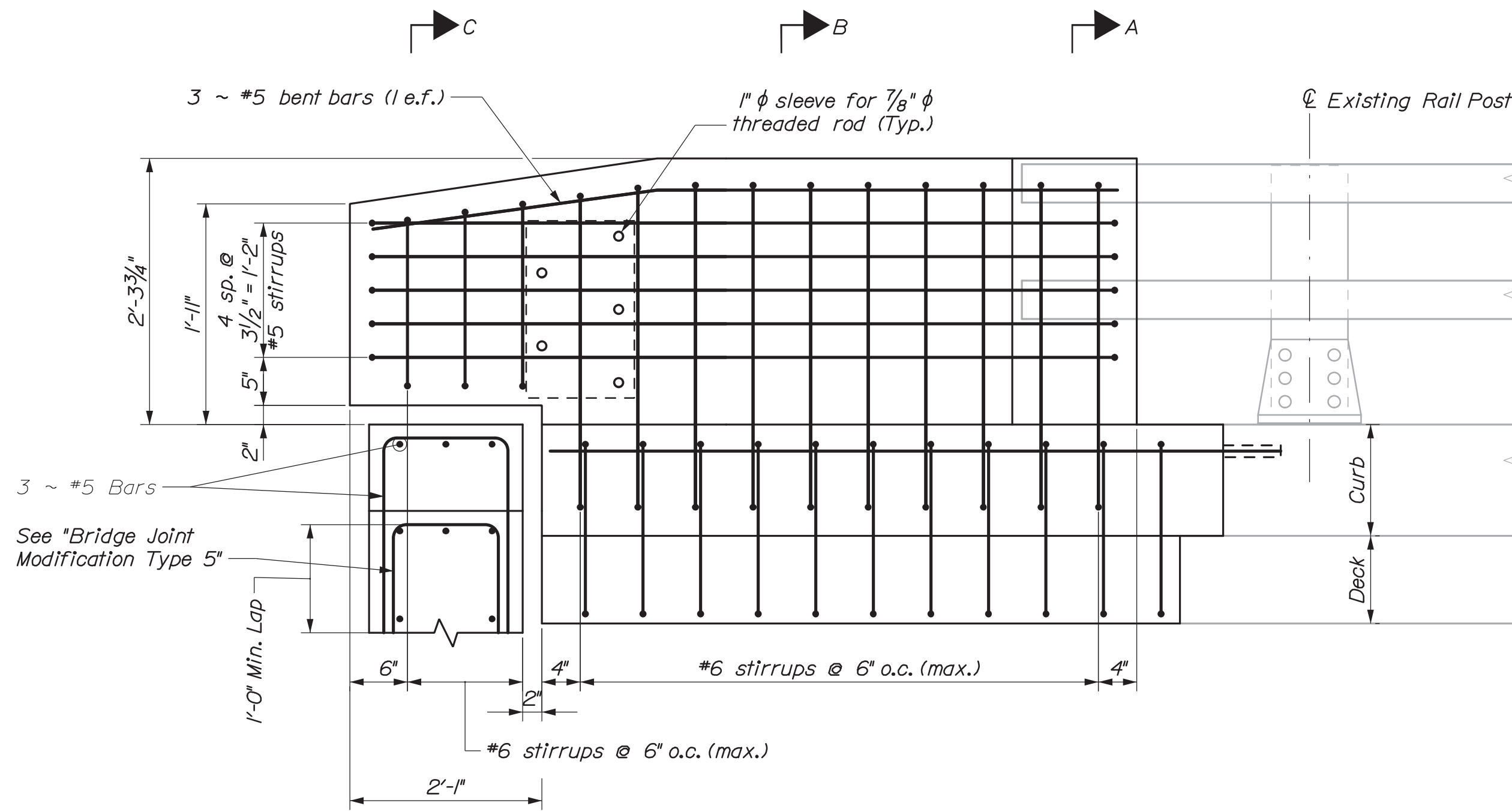
Filename: 024_SR 703 Transition Barriers Details Division:



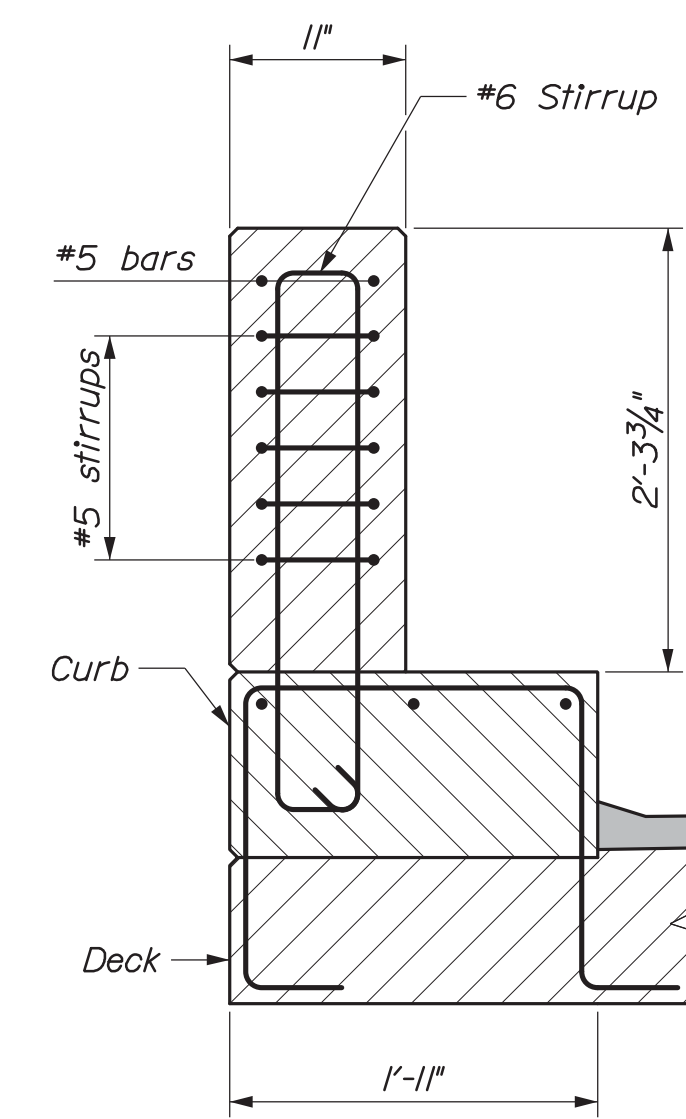
PERMANENT CONCRETE TRANSITION BARRIER - MODIFIED (TYPE 3A)
Roadway elevation shown

CONCRETE TRANSITION BARRIER NOTES

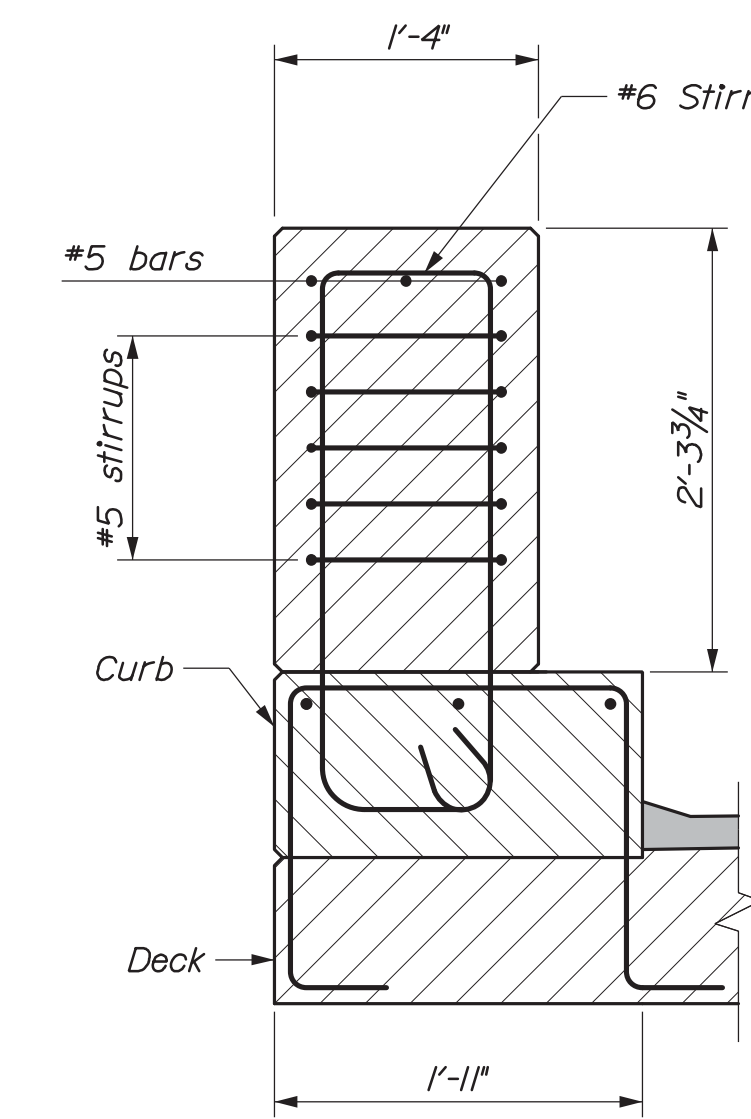
1. Refer to Standard Details Section 526 - Concrete Transition Barrier for details and Information not shown.
2. Reinforcing steel for the Transition Barriers is based on details shown in the Standard Details. Reinforcing steel shall be modified to fit the details and conditions shown on the plans. Payment for modifying reinforcing steel and for drilling and anchoring bars as shown will be considered incidental to Item No. 526.3401. Permanent Concrete Transition Barrier - Modified.
3. Anchor plates and threaded rods shall be galvanized in accordance with the Standard Specifications and the Standard Details. Existing Anchor Plates and Threaded Rods may be reused if undamaged.
4. The Contractor shall locate existing curb reinforcing steel and conduit and adjust dowel locations to avoid cutting existing bars. Any adjustments from plan dimensions shall be approved by the Resident.



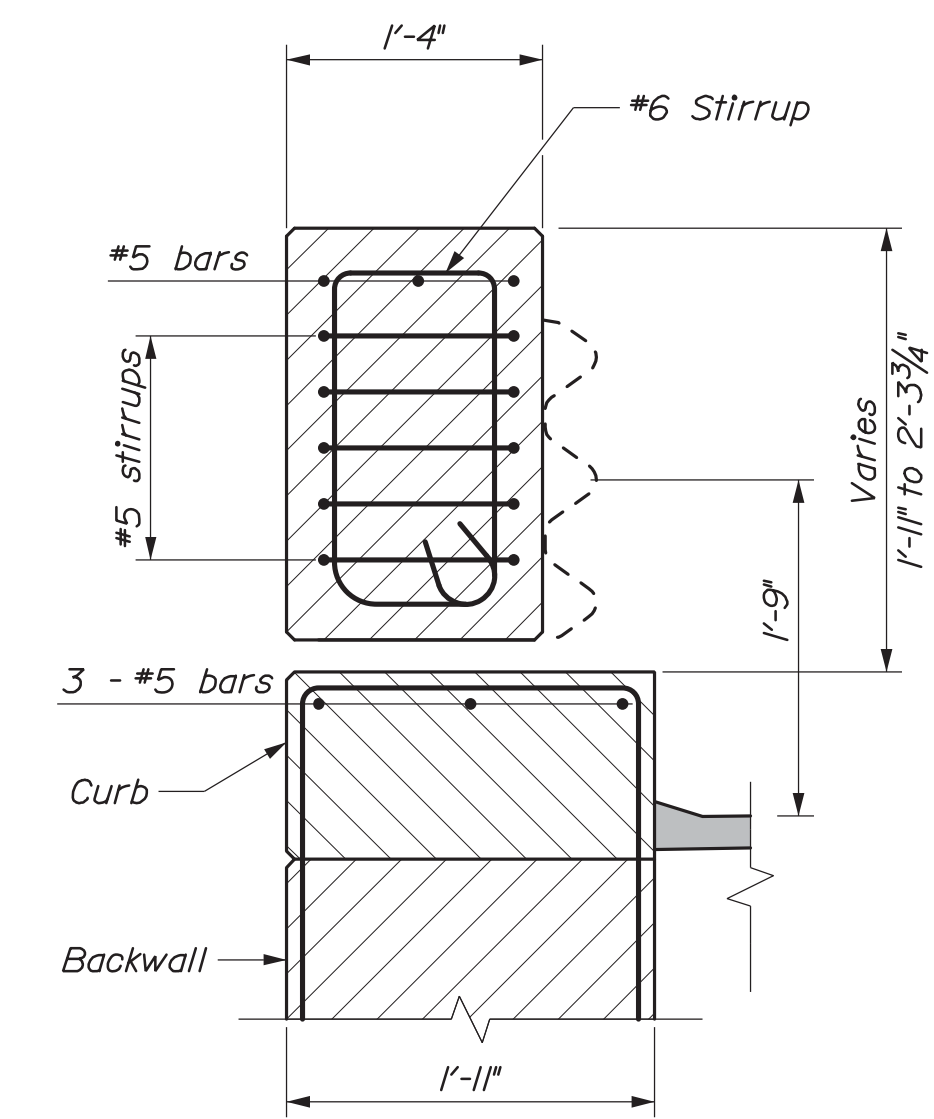
ELEVATION
Roadway elevation shown



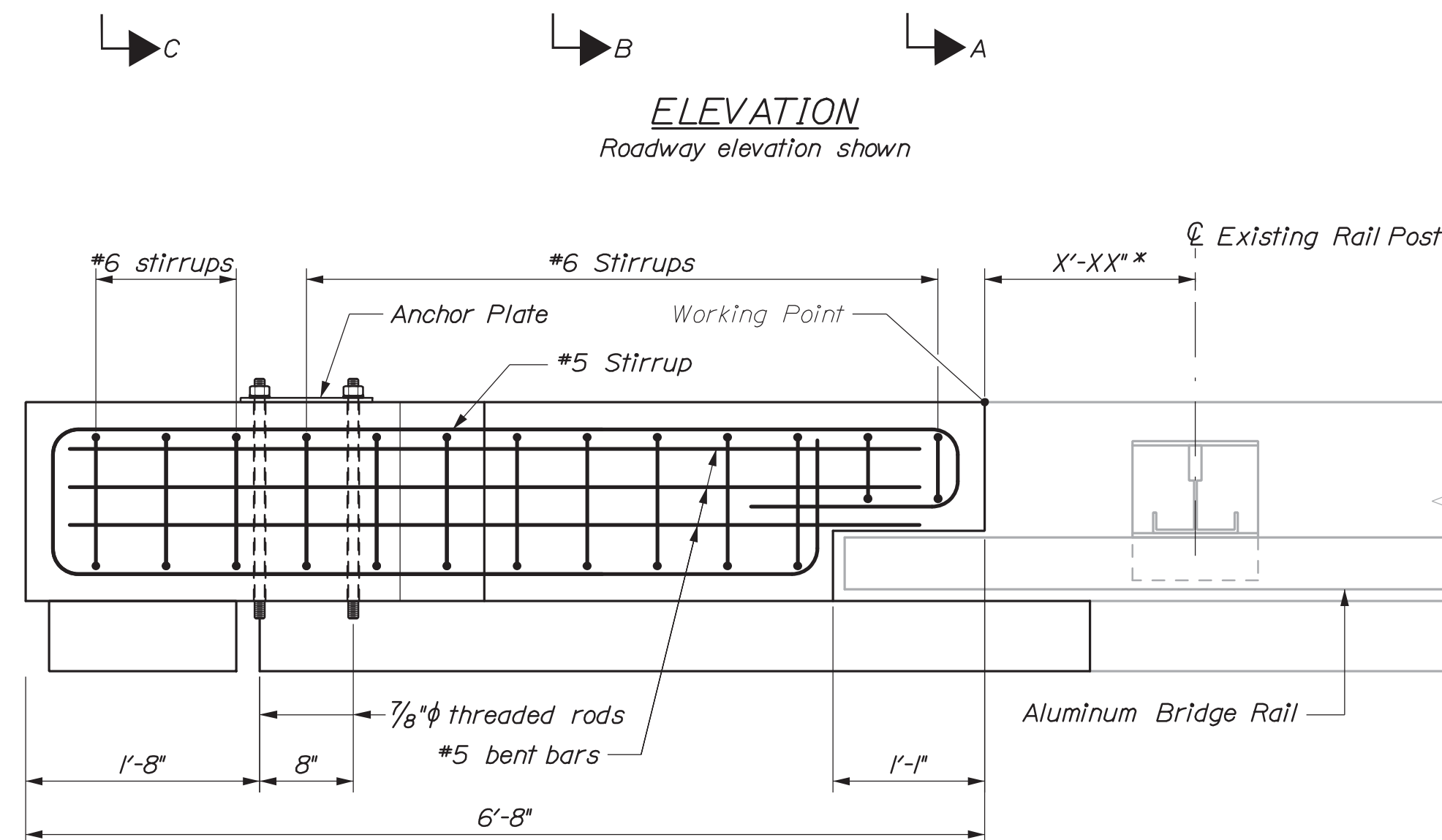
Note: Deck reinforcing not shown for clarity
SECTION A-A



SECTION B-B

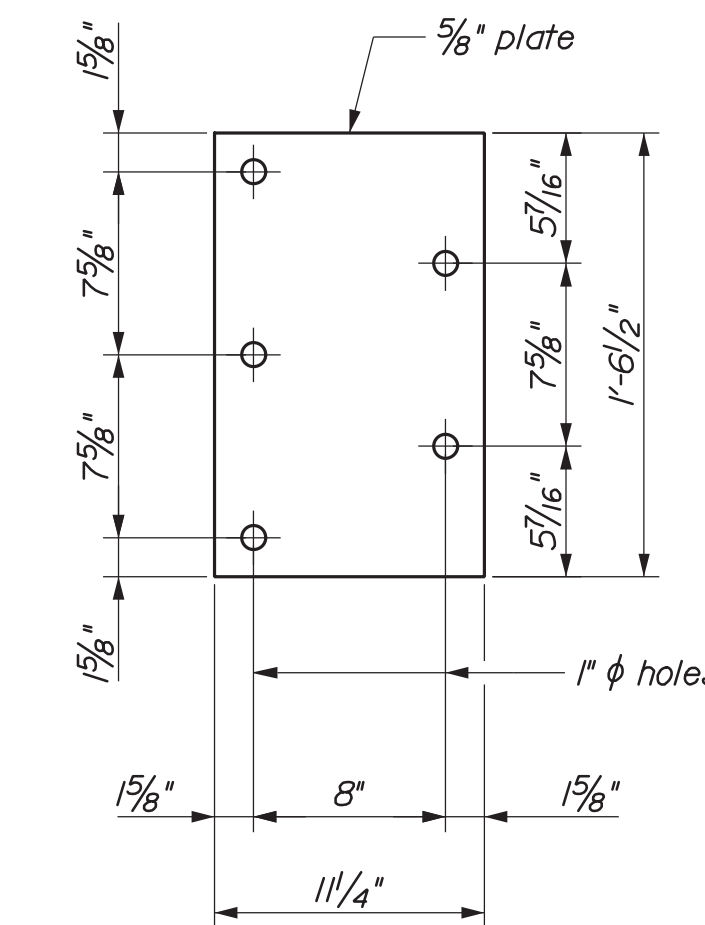


SECTION C-C

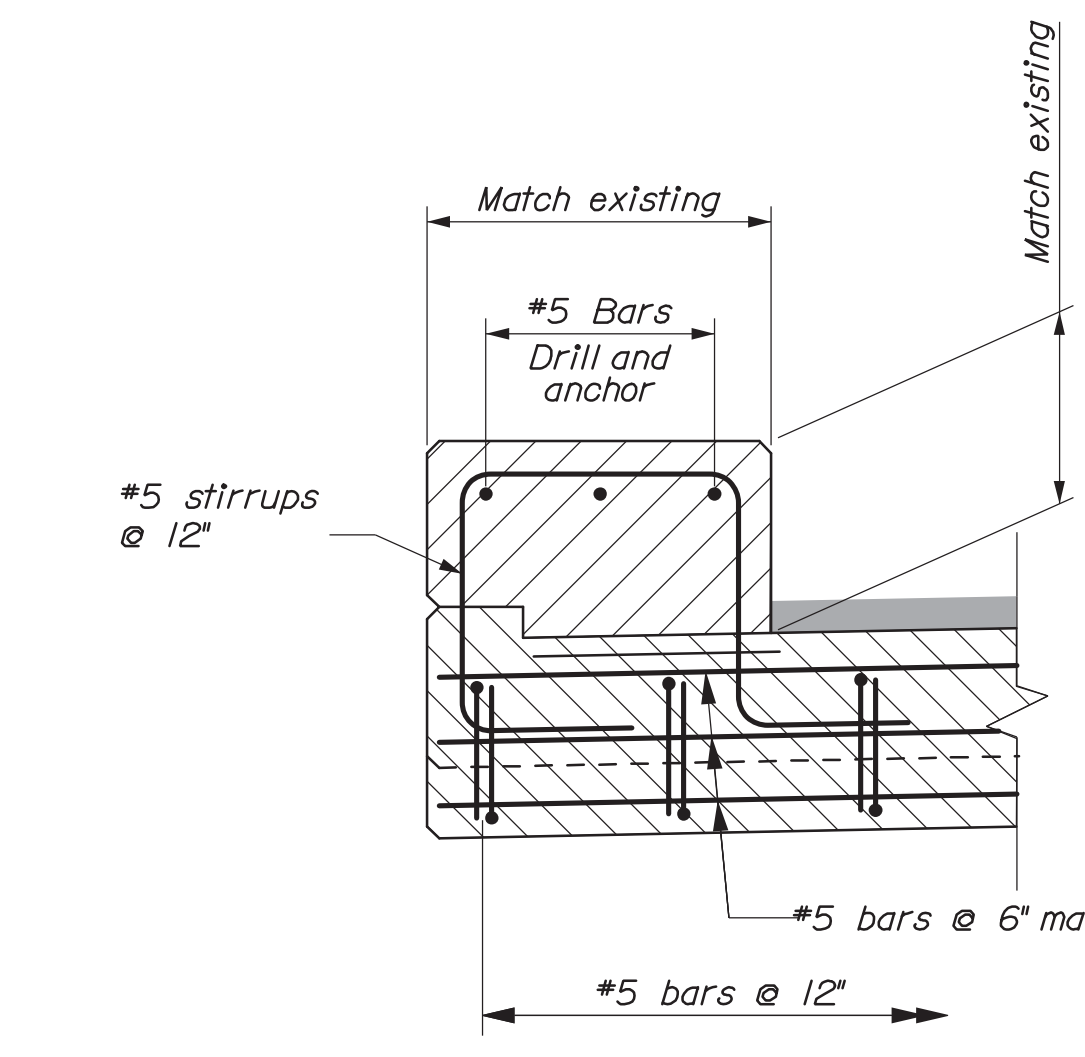


PLAN

* Field measure and record distance before demolition of existing transition barrier.



ANCHOR PLATE
(Remove and stack for reinstallation)



RECONSTRUCTED CURB & OVERHANG DETAIL

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

2361501

WIN
023615.01

BRIDGE PLANS

SIGNATURE

DATE

BY

DATE

DESIGN DETAILED

DESIGN REVIEWED

DESIGN DETAILED

REVISIONS 1

REVISIONS 2

REVISIONS 3

REVISIONS 4

FIELD CHANGES

P.E. NUMBER

DATE

INTERSTATE 295 SOUTHBORD

S. PORTLAND TO PORTLAND

CUMBERLAND COUNTY

CONCRETE TRANSITION

BARRIER DETAILS II

SHEET NUMBER

24

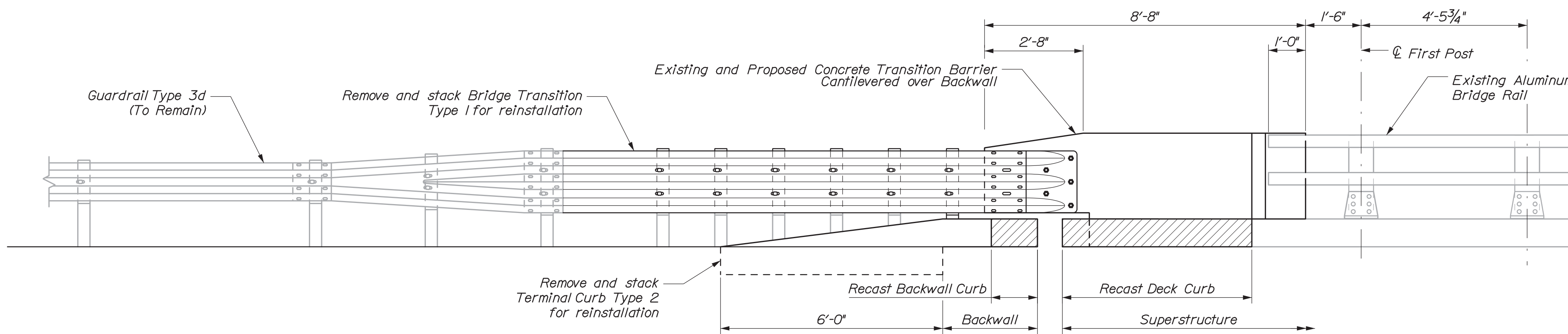
OF 52



Date: 2/19/2020

Username:

Filename: 025_SR 703 Transition Barriers Details 2.dwg

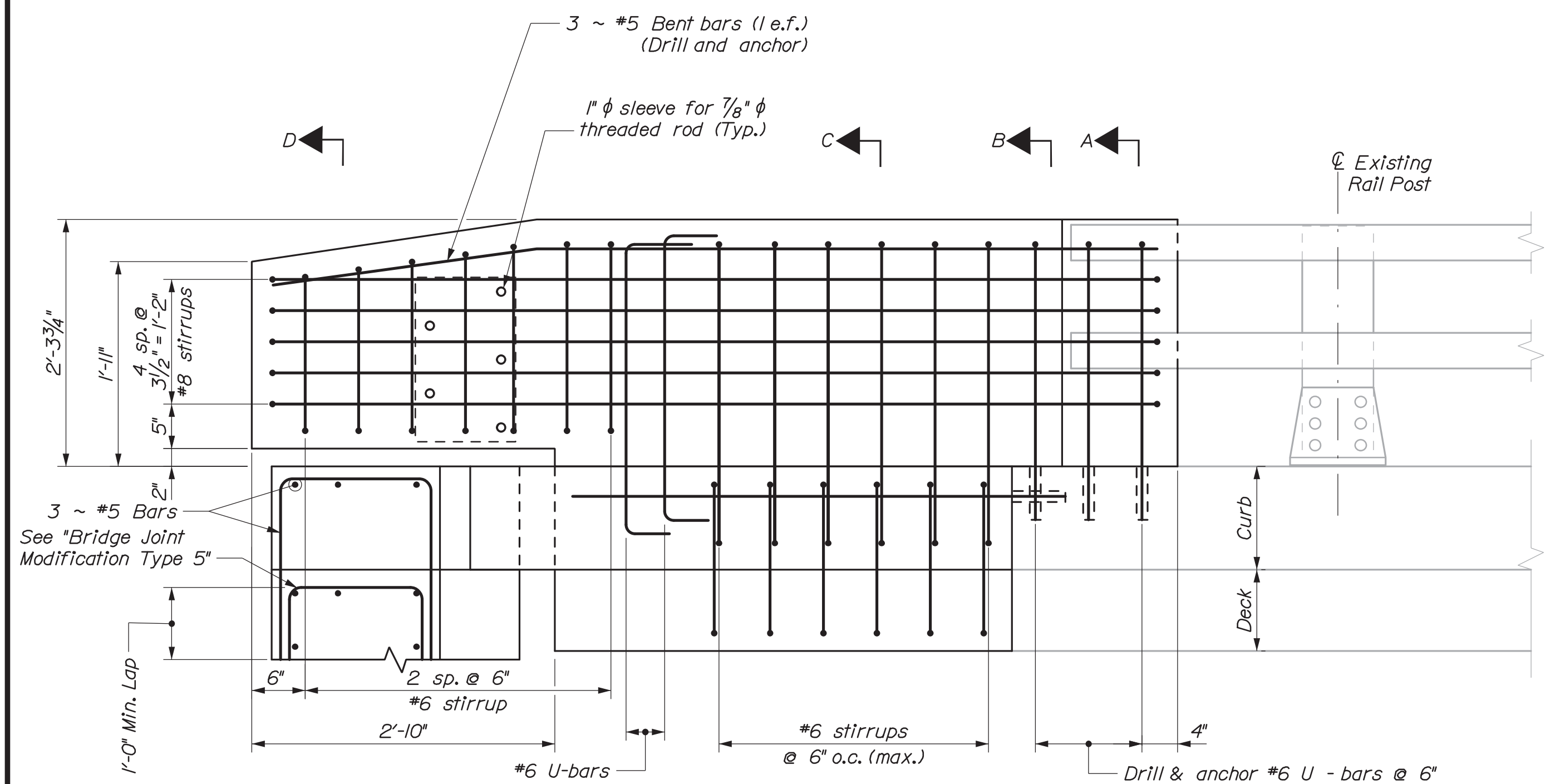


CONCRETE TRANSITION BARRIER NOTES

1. 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. 526.340I. Permanent Concrete Transition Barrier - Modified.
3. Anchor plates and threaded rods shall be galvanized in accordance with the Standard Specifications and the Standard Details. Existing Anchor Plates and Threaded Rods may be reused if undamaged.
4. The Contractor shall locate existing curb reinforcing steel and conduit and adjust dowel locations to avoid cutting existing bars. Any adjustments from plan dimensions shall be approved by the Resident.

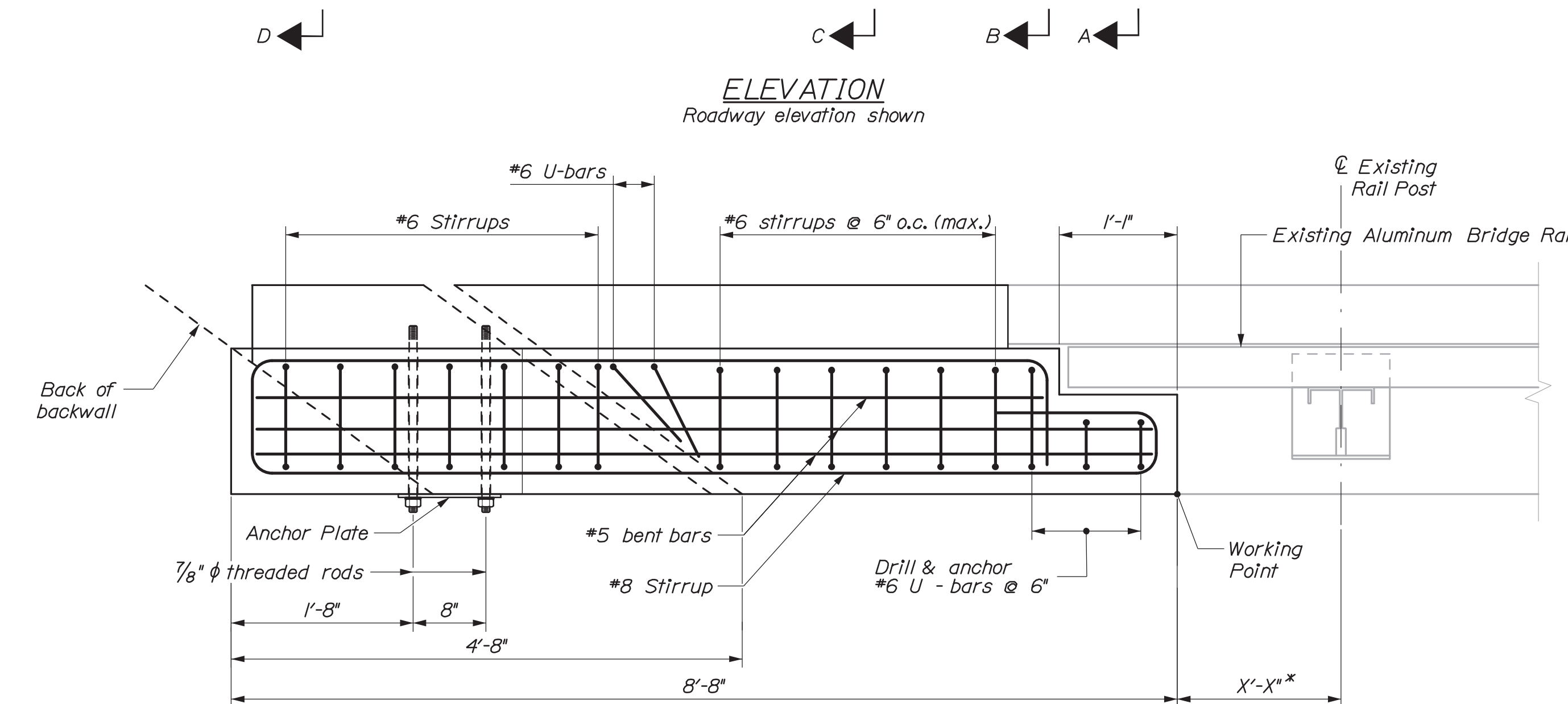
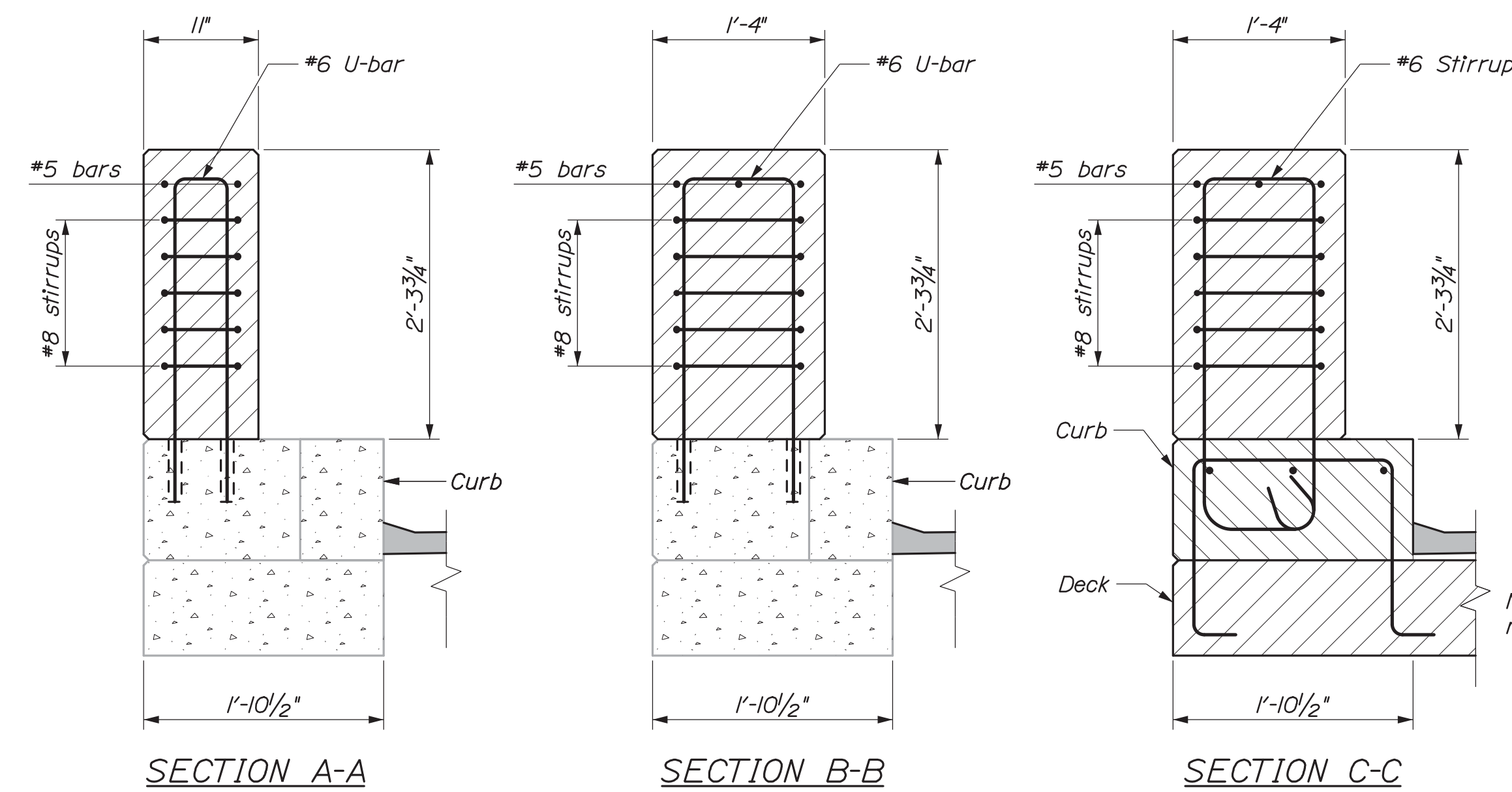
PERMANENT CONCRETE TRANSITION BARRIER - MODIFIED (TYPE 3B)

Roadway elevation shown



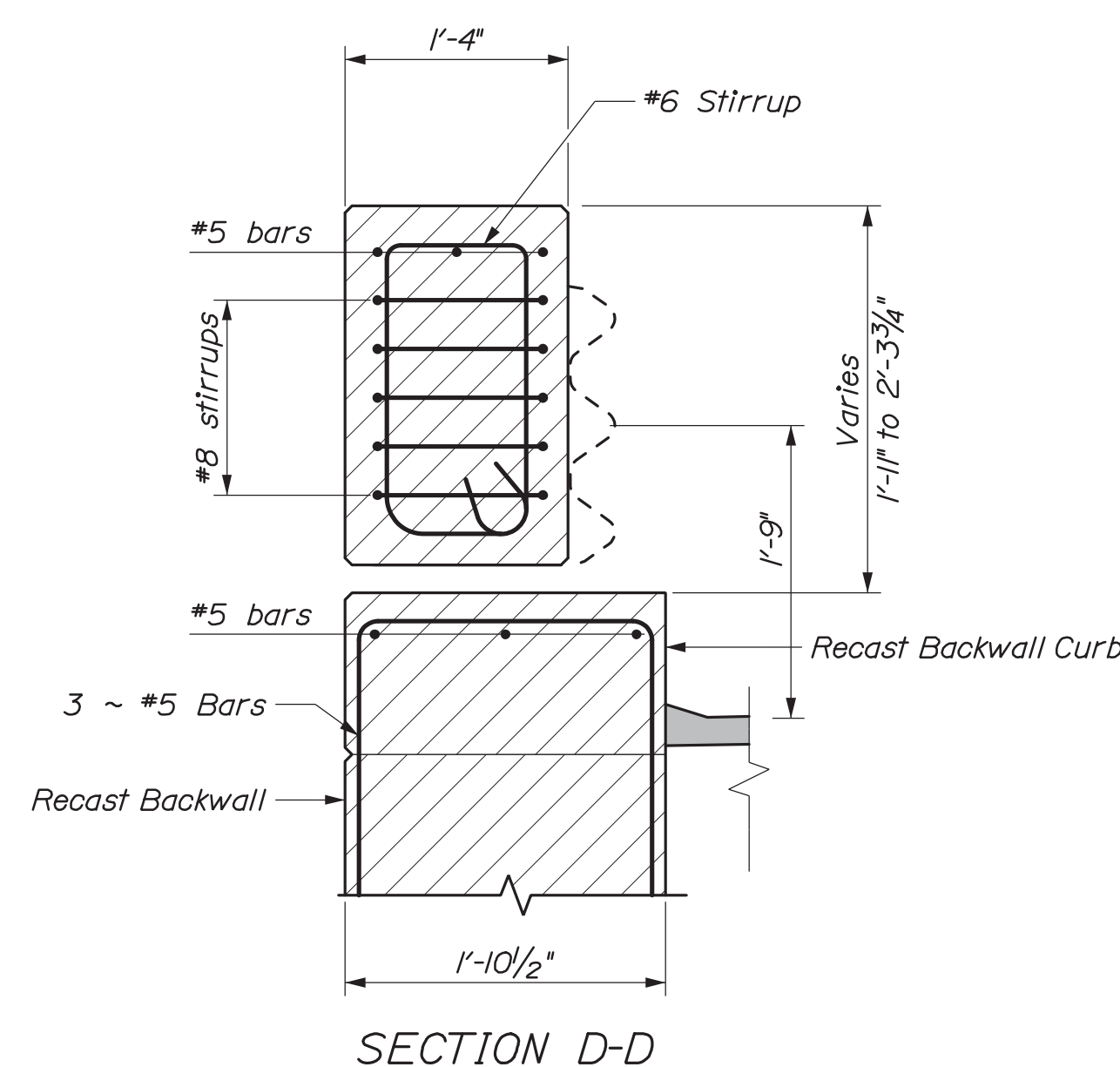
ELEVATION

Roadway elevation shown

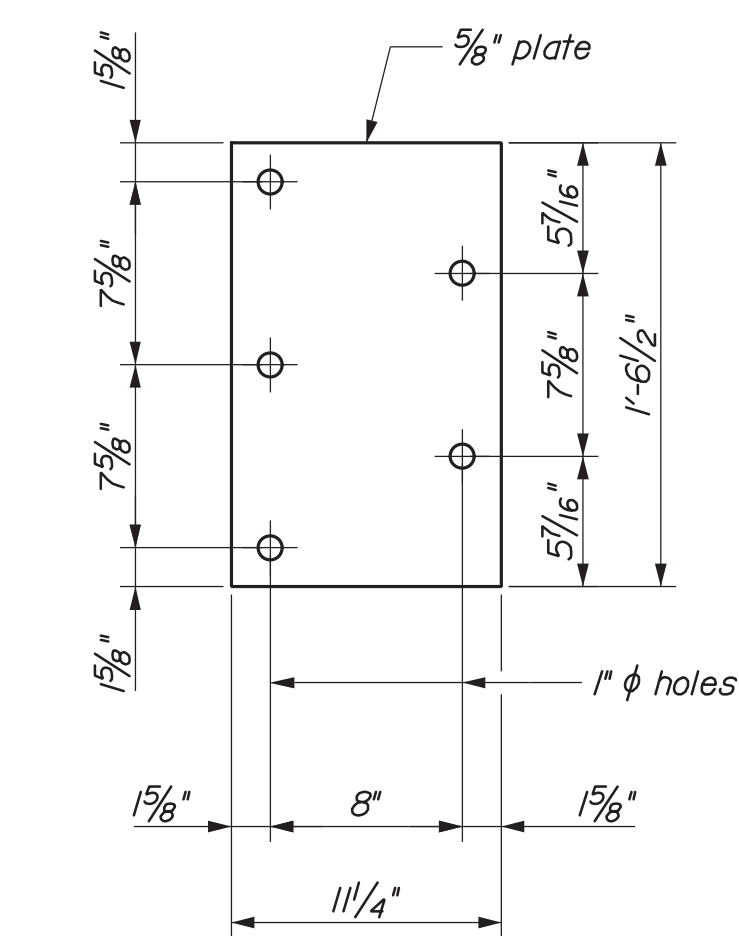


PLAN

* Field measure and record before demolition of existing transition barrier



SECTION D-D



ANCHOR PLATE

(Remove and stack for reinstallation.)

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION
2361501
WIN
023615.01
BRIDGE PLANS

PROJ. MANAGER	BY	DATE	SIGNATURE
M. Kerstner	E. Brunsell	01/20	
CHECKED	T. Cole	01/20	
DESIGNED			
REVISIONS			
REVISIONS			
REVISIONS			
FIELD CHANGES			

INTERSTATE 295 SOUTHBUND
S. PORTLAND TO PORTLAND
CUMBERLAND COUNTY
**CONCRETE TRANSITION
BARRIER DETAILS III**

SHEET NUMBER

25

OF 52

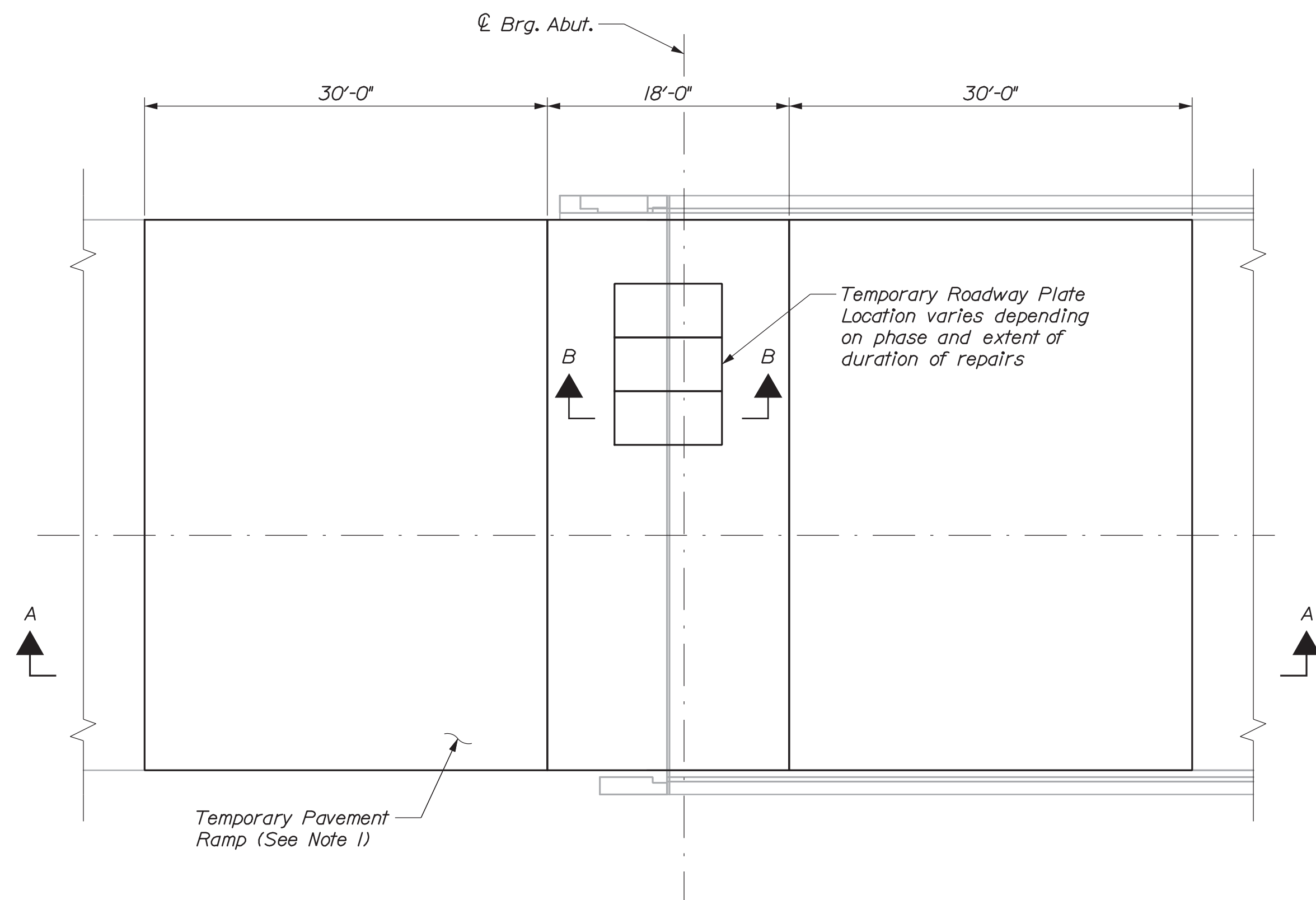


NOTES:

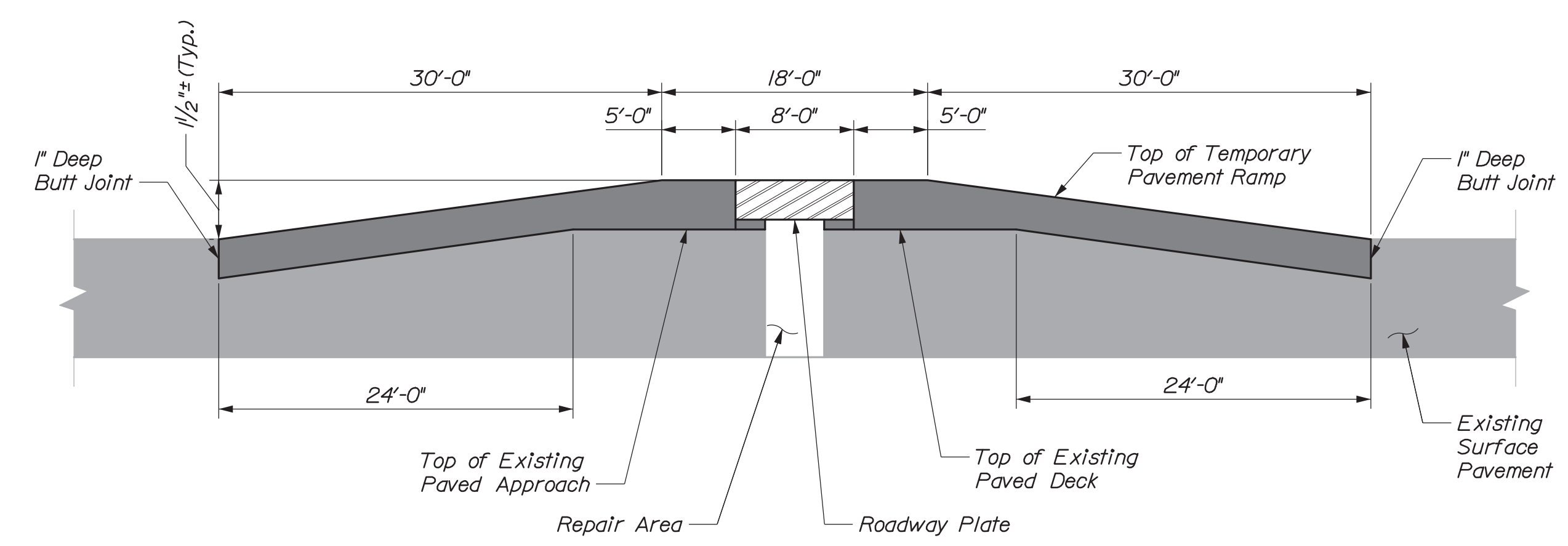
1. Butt Joints and Temporary Pavement Ramps shall be incidental to Pay Item 524.50, "Temporary Roadway Mat".

2. Contractor may propose alternate roadway plate designs in accordance with Special Provision 524.

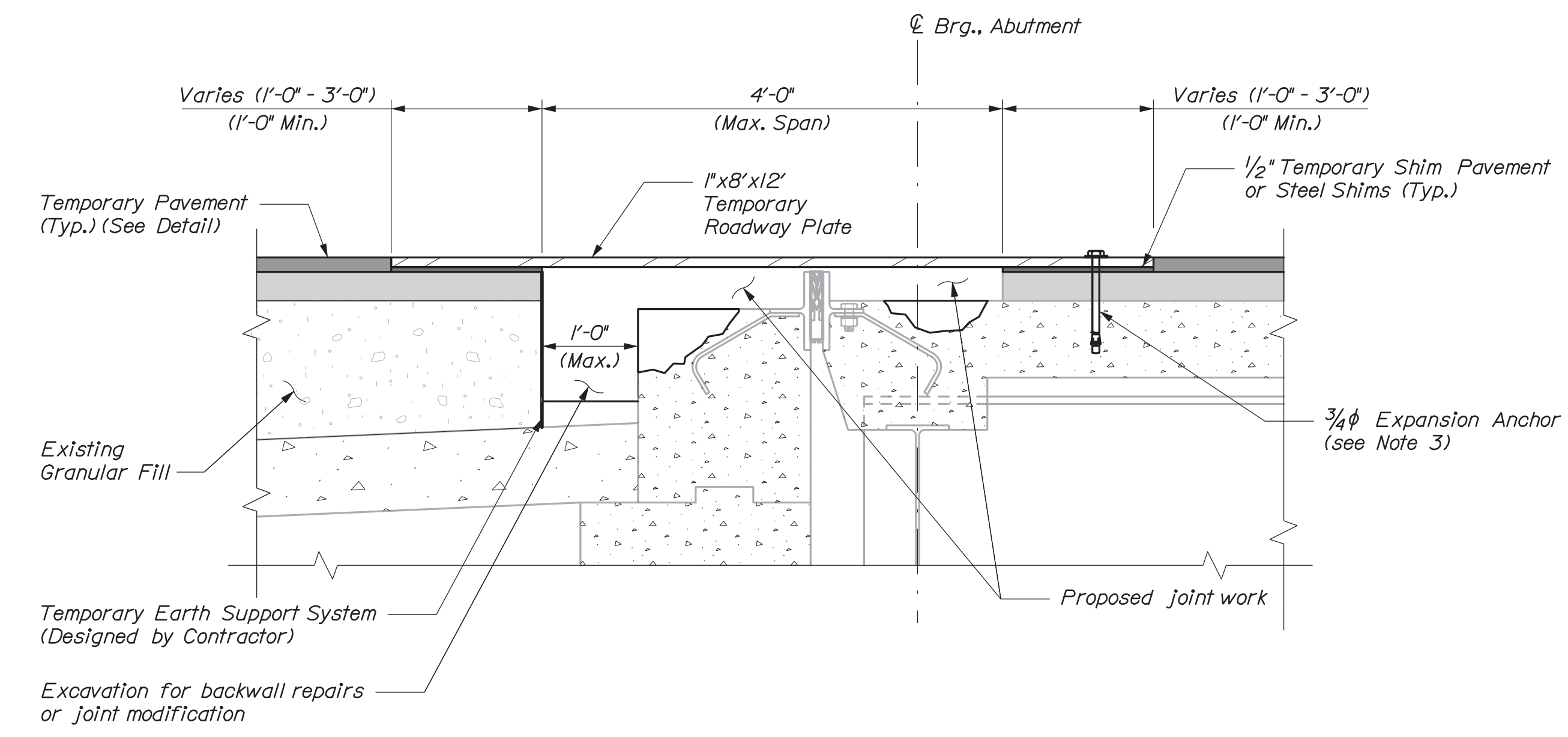
3. Expansion Anchors shall be fully removable, heavy duty, vibration resistant self-locking sleeve anchors installed in accordance with manufacturer's requirements. Each Expansion Anchor shall have a minimum embedment into concrete of 4 inches, excluding pavement thickness, and capable of resisting a shear loading of 5.0 kips and a tensile force of 5.0 kips. Following completion of the work all bolt holes shall be filled with a non-shrink grout selected from the Qualified Products List.



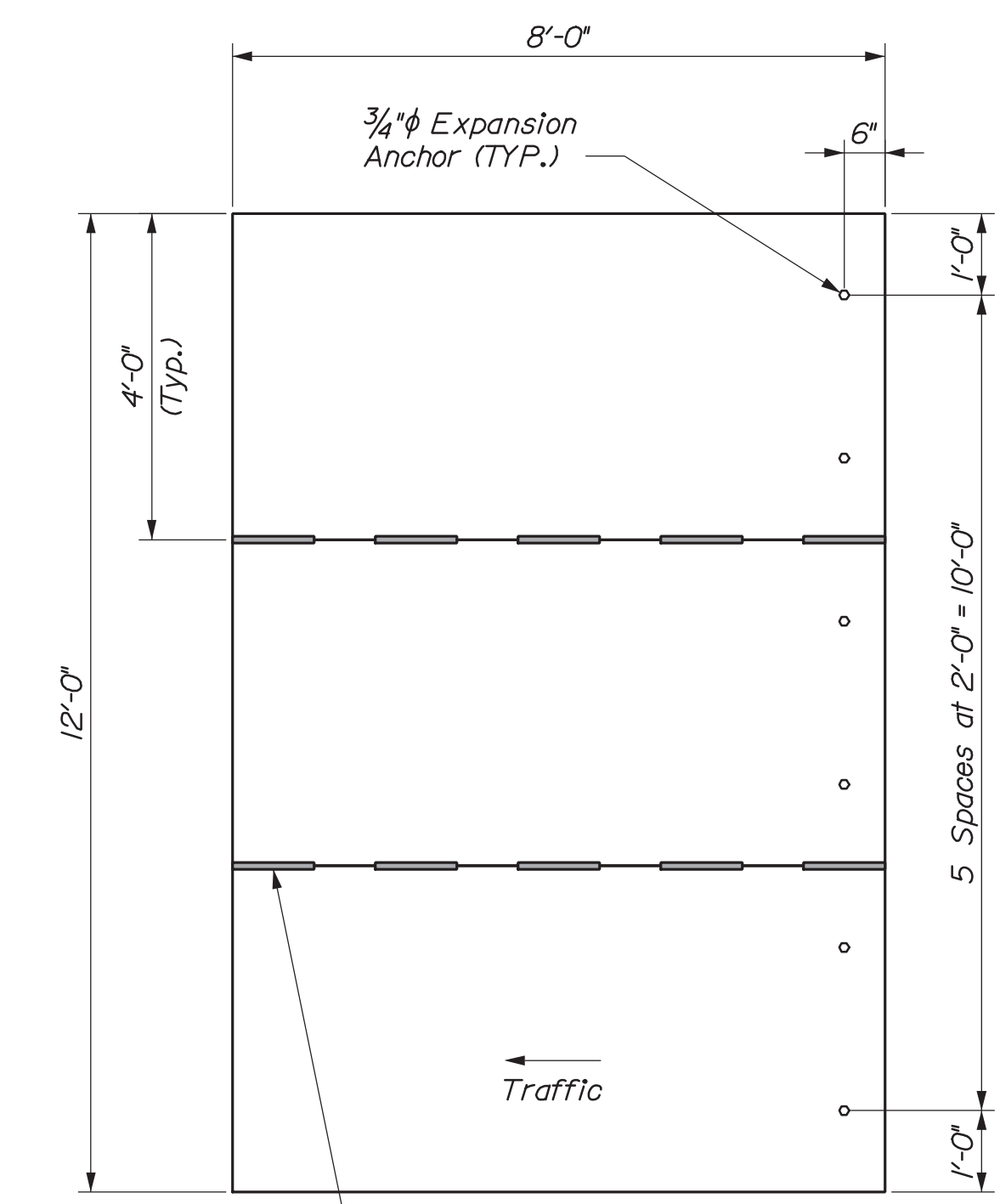
PLAN VIEW



SECTION A-A
TEMPORARY PAVEMENT DETAIL
(Vertical Scale Exaggerated)



SECTION B-B



Use a minimum of (5) 1/2" welds along each seam. Bevel the plate 1/2" to allow for a 1/16" weld. Field weld locations as shown. Typical each plate connection. Grind welds smooth before allowing traffic.

TEMPORARY ROADWAY PLATE PLAN

Date: 2/19/2020

Username:

Filename: 026_Joint Modification Platting Details.dgn Division:

STATE OF MAINE	BRIDGE PLANS
DEPARTMENT OF TRANSPORTATION	WIN
2361501	023615.01

PROJ. MANAGER	DATE
DESIGN DETAILED	DATE
CHECKED/REVIEWED	DATE
DESIGN DETAILED	DATE
REVISIONS 1	DATE
REVISIONS 2	DATE
REVISIONS 3	DATE
REVISIONS 4	DATE
FIELD CHANGES	DATE

BY	DATE
DESIGN DETAILED	DATE
CHECKED/REVIEWED	DATE
DESIGN DETAILED	DATE
REVISIONS 1	DATE
REVISIONS 2	DATE
REVISIONS 3	DATE
REVISIONS 4	DATE
FIELD CHANGES	DATE

INTERSTATE 295 SOUTHBOUND
S. PORTLAND TO PORTLAND
CUMBERLAND COUNTY
JOINT MODIFICATION
TEMP. ROADWAY PLATE

SHEET NUMBER
26
OF 52

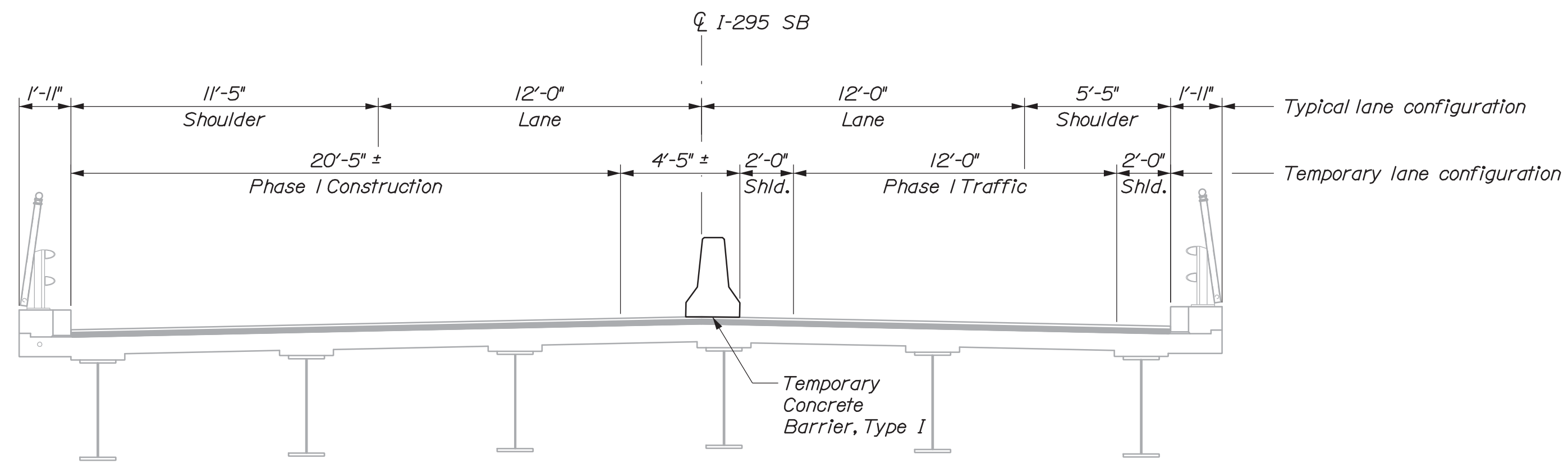


Date: 2/19/2020

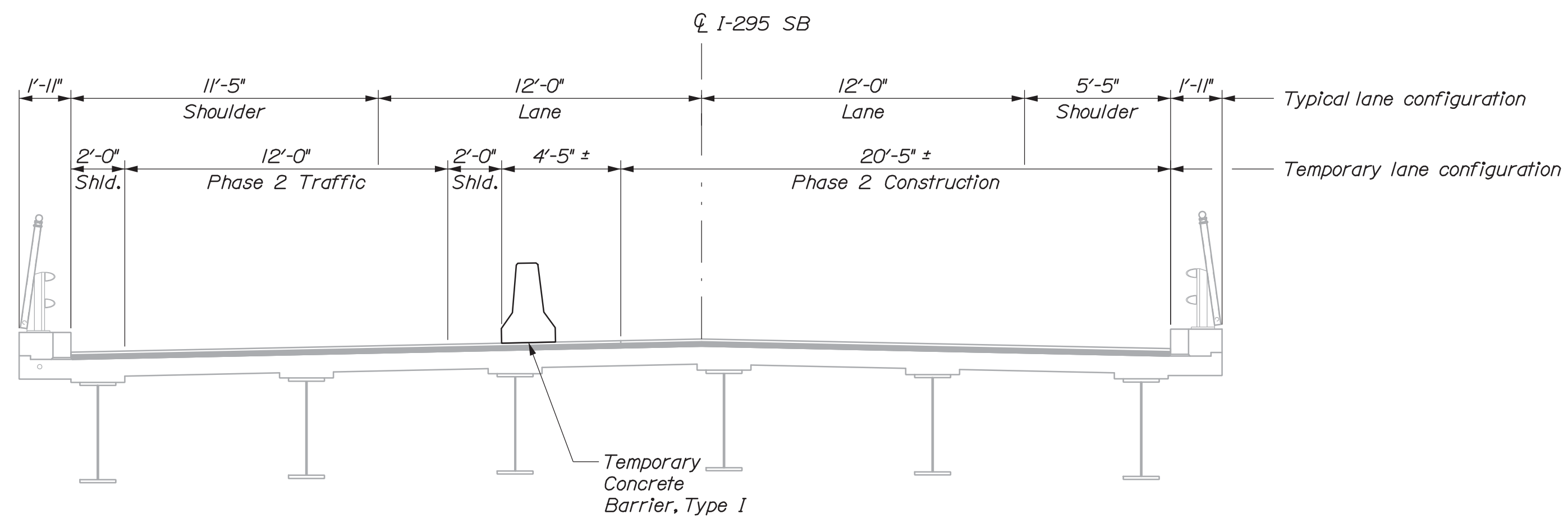
Username:

Division:

Filename: 027_Route_703-1_SB.dgn



PHASE 1
Interstate 295 over Route 703



PHASE 2
Interstate 295 over Route 703

NOTES:
1. Sections are shown looking northbound.



STATE OF MAINE
DEPARTMENT OF TRANSPORTATION
2361501
WIN
023615.01
BRIDGE PLANS

DATE: 12/19
BY: AJM, TRC
SIGNATURE: _____
P.E. NUMBER: _____
DATE: _____

PROJ. MANAGER	M. Kershaugen	DATE
DESIGN DETAILED	AJS	12/19
CHECKED/REVIEWED	JKH	12/19
DESIGN DETAILED 2		
DESIGN DETAILED 3		
REVISIONS 1		
REVISIONS 2		
REVISIONS 3		
REVISIONS 4		
FIELD CHANGES		

INTERSTATE 295 SOUTHBOUND
S. PORTLAND TO PORTLAND
CUMBERLAND COUNTY
BRIDGE PHASING
ROUTE 703

SHEET NUMBER

27

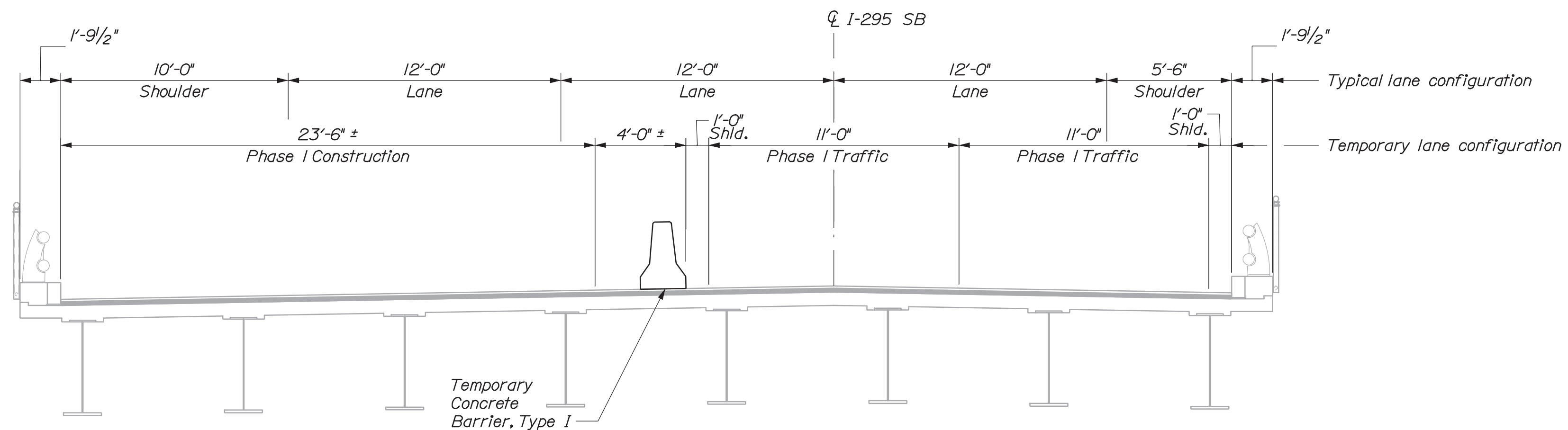
OF 52

Date: 2/19/2020

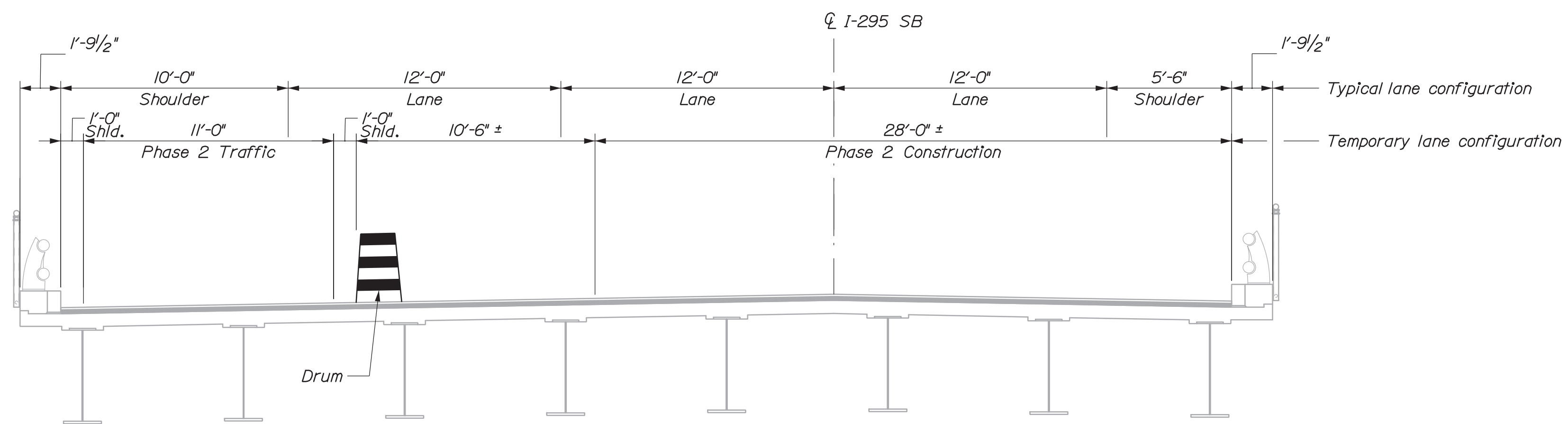
Username:

Division:

Filename: 028_Westbrook_Street_SB.dgn



PHASE 1
Interstate 295 over Westbrook Street



PHASE 2
Interstate 295 over Westbrook Street

NOTES:
1. Sections are shown looking northbound.



STATE OF MAINE
DEPARTMENT OF TRANSPORTATION
2361501
WIN
023615.01
BRIDGE PLANS

SIGNATURE
P.E. NUMBER
DATE

PROJ. MANAGER	M. Kerschberger	DATE
DESIGN DETAILED	AJS	12/19
CHECKED/REVIEWED	JKH	12/19
DESIGN DETAILED		
DESIGN DETAILED		
REVISIONS 1		
REVISIONS 2		
REVISIONS 3		
REVISIONS 4		
FIELD CHANGES		

INTERSTATE 295 SOUTHBOUND
S. PORTLAND TO PORTLAND
CUMBERLAND COUNTY
BRIDGE PHASING
WESTBROOK STREET

SHEET NUMBER

28

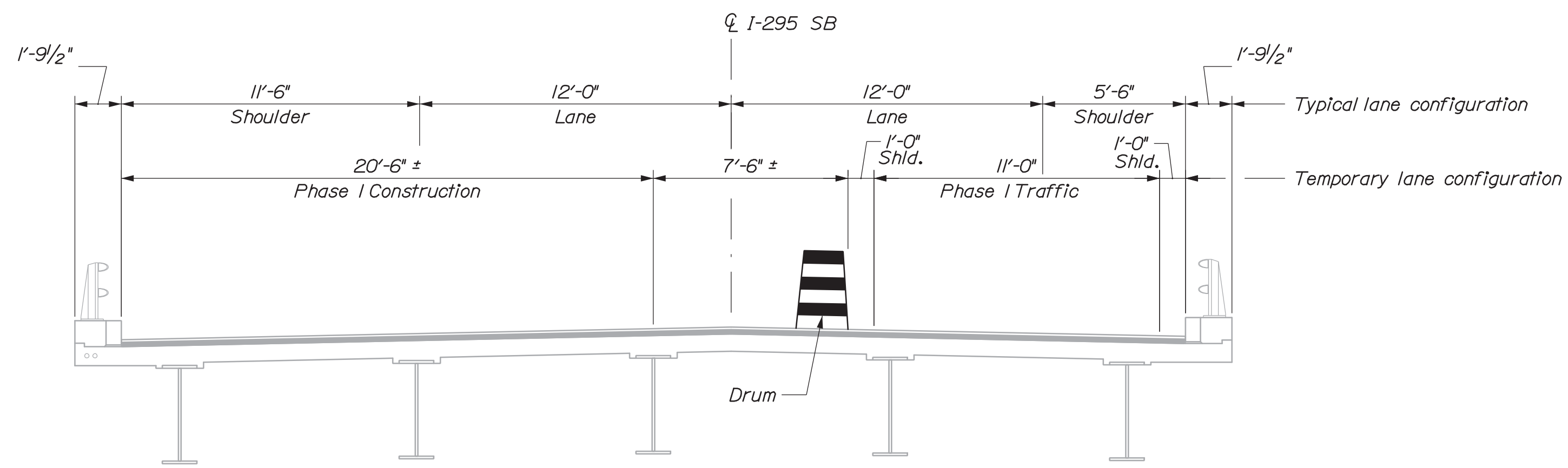
OF 52

Date: 2/19/2020

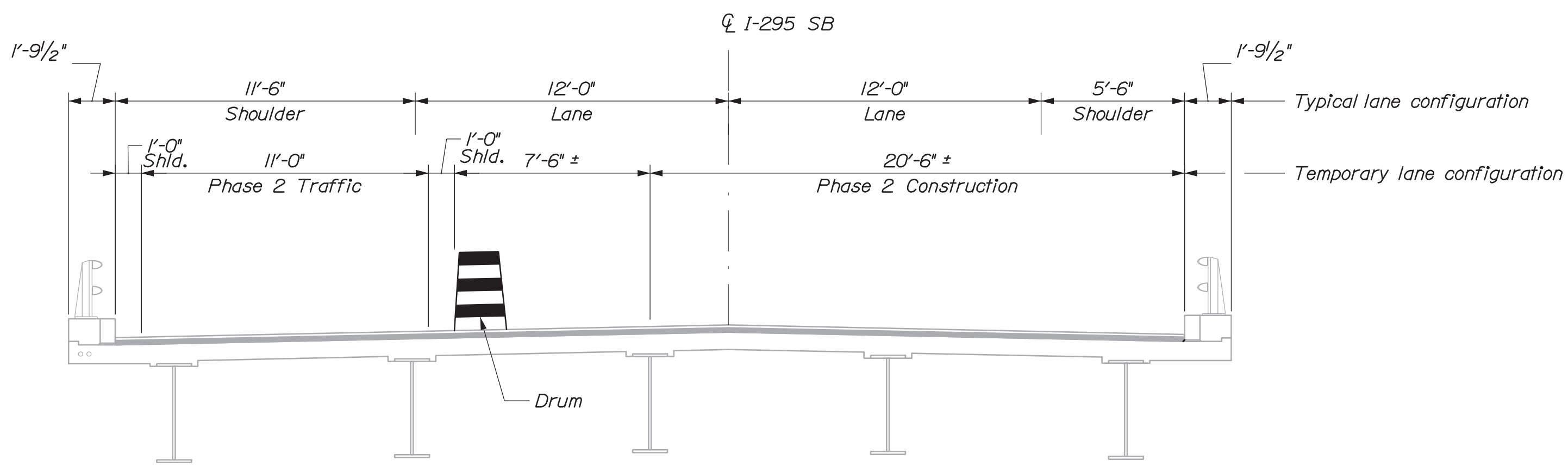
Username:

Division:

Filename: 029_Fore_River_SB.dgn



PHASE 1
Interstate 295 over Fore River



PHASE 2
Interstate 295 over Fore River

NOTES:

- Sections are shown looking northbound.
- The Fore River Parkway southbound on ramp shall be closed during Fore River bridge work. See the Fore River Parkway Detour Plan.

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION
2361501
WIN
023615.01
BRIDGE PLANS

DATE	12/19	BY	AJM	PROJ. MANAGER	M. Kerstner/gen
DATE	12/19	BY	TRC	DESIGN DETAILED	AJS
				CHECKED/REVIEWED	JKH
				DESIGN DETAILED	
				REVISIONS 1	
				REVISIONS 2	
				REVISIONS 3	
				REVISIONS 4	
				FIELD CHANGES	

SIGNATURE	
P.E. NUMBER	
DATE	

INTERSTATE 295 SOUTHBOUND
S. PORTLAND TO PORTLAND
CUMBERLAND COUNTY
BRIDGE PHASING
FORE RIVER

SHEET NUMBER

29

OF 52

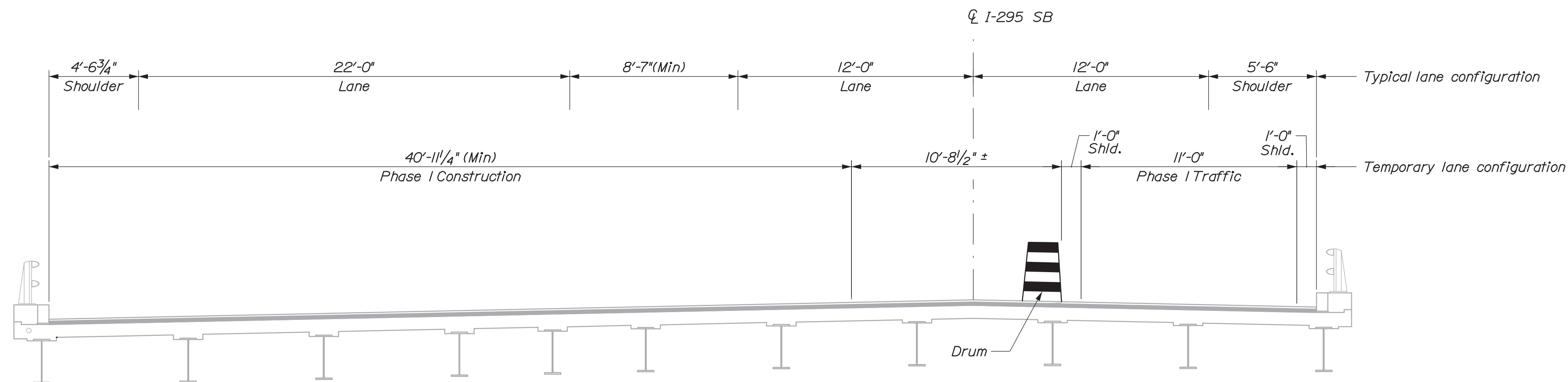


Date: 2/19/2020

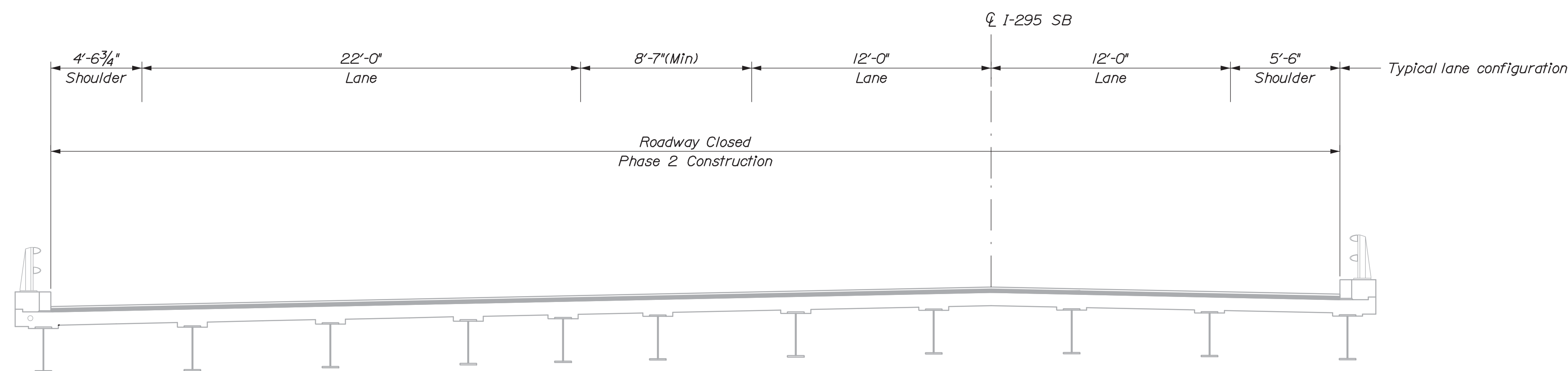
Username:

Division:

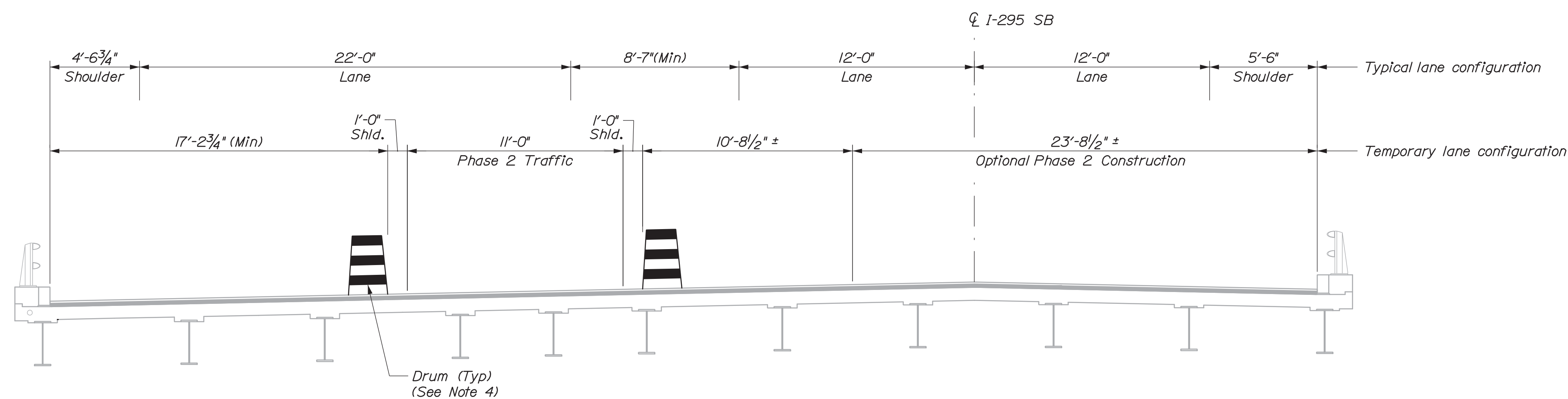
Filename: 030_PTRR_SB.dgn



PHASE 1
Interstate 295 over PTRR (Fore River)



PHASE 2 BRIDGE CLOSURE
Interstate 295 over PTRR (Fore River)



OPTIONAL PHASE 2 WITH BRIDGE OPEN TO TRAFFIC (SEE NOTE 3)
Interstate 295 over PTRR (Fore River)

NOTES:

- Sections are shown looking northbound.
- Phase 1 work will require closure of the Fore River Parkway southbound on ramp. See Fore River Parkway Detour Plan.
- Phase 2 work may be completed with a closure of I-295 Southbound. At the Contractor's option Phase 2 may be completed while maintaining one lane of traffic across the bridge as shown in the optional Phase 2 cross section. See I-295 Southbound Detour Plan.
- For the optional Phase 2 Construction configuration with the bridge open to traffic, drums shall be placed along the right and left edge of travel way spaced 80' O.C. to define the travel lane.
- The PTRR (Fore River) bridge work zone is detailed to occur in a single continuous work zone with the Fore River Parkway bridge work.

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION
2361501
WIN
023615.01
BRIDGE PLANS

PROJ. MANAGER	M. Kershaugen	DATE	12/19
DESIGN DETAILED	AJS	BY	AKM
CHECKED/REVIEWED	JKH		TRC
DESIGN DETAILED			
REVISIONS 1			
REVISIONS 2			
REVISIONS 3			
REVISIONS 4			
FIELD CHANGES			

SIGNATURE	P.E. NUMBER	DATE

INTERSTATE 295 SOUTHBOUND
S. PORTLAND TO PORTLAND
CUMBERLAND COUNTY
BRIDGE PHASING
PTRR (FORE RIVER)

SHEET NUMBER
30
OF 52

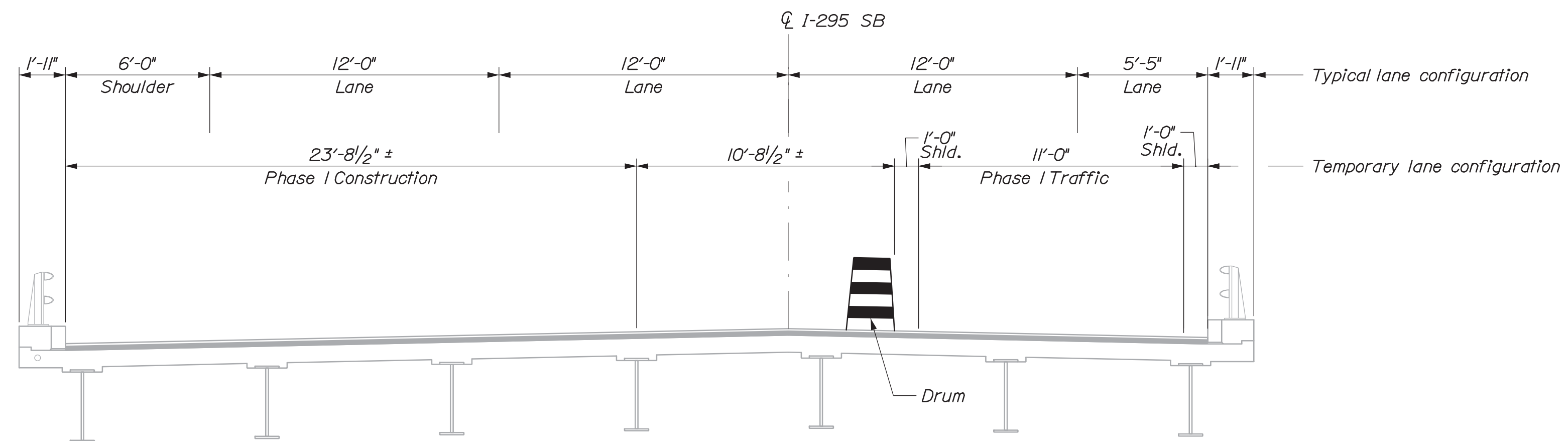


Date: 2/19/2020

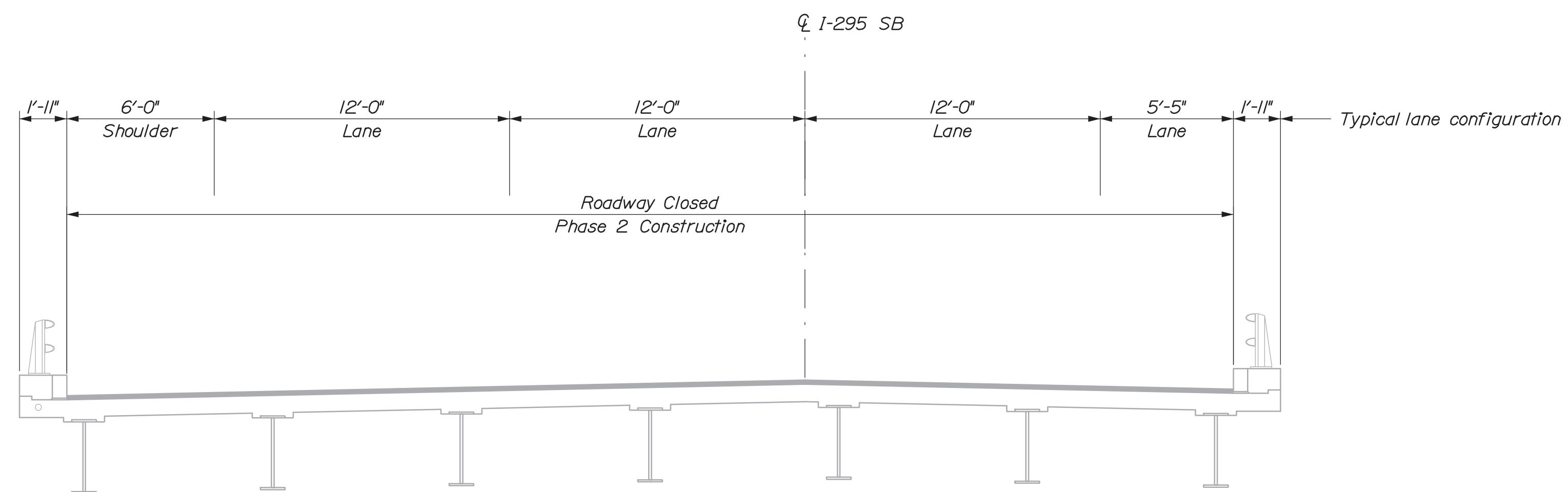
Username:

Division:

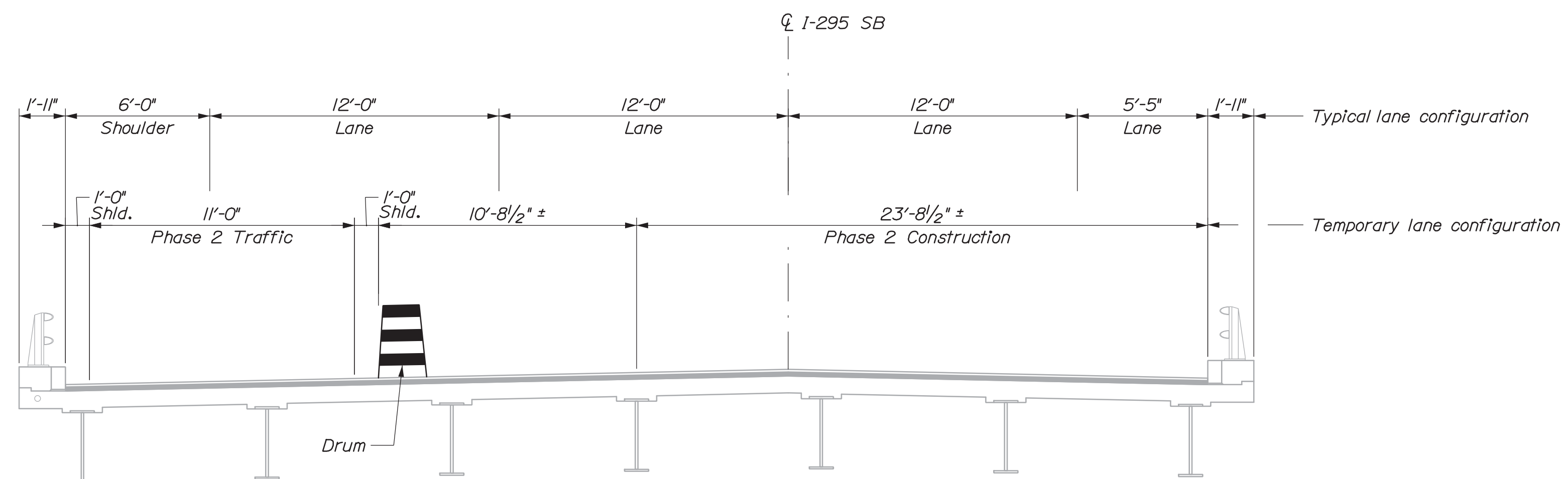
Filename: 031_Fore_River_Parkway_SB.dgn



OPTIONAL PHASE 1
Interstate 295 over Fore River Parkway



PHASE 2 BRIDGE CLOSURE
Interstate 295 over Fore River Parkway



OPTIONAL PHASE 2
Interstate 295 over Fore River Parkway

NOTES:

1. Sections are shown looking northbound.
2. Fore River Parkway may be completed under complete closure of I-295 Southbound. The contractor may opt to maintain one lane on I-295 in two phases.
3. The Congress Street southbound on ramp shall be closed during bridge work. The Congress Street On Ramp Detour Plan shall be combined with the Fore River Parkway Detour Plan with any conflicting signs omitted.
4. At the Contractor's option Phase 2 may be completed while maintaining one lane of traffic across the bridge as shown in the optional Phase 2 cross section. If The Fore River Parkway bridge is not closed, bridge work will occur in a single continuous work zone with the PTRR bridge work zone.

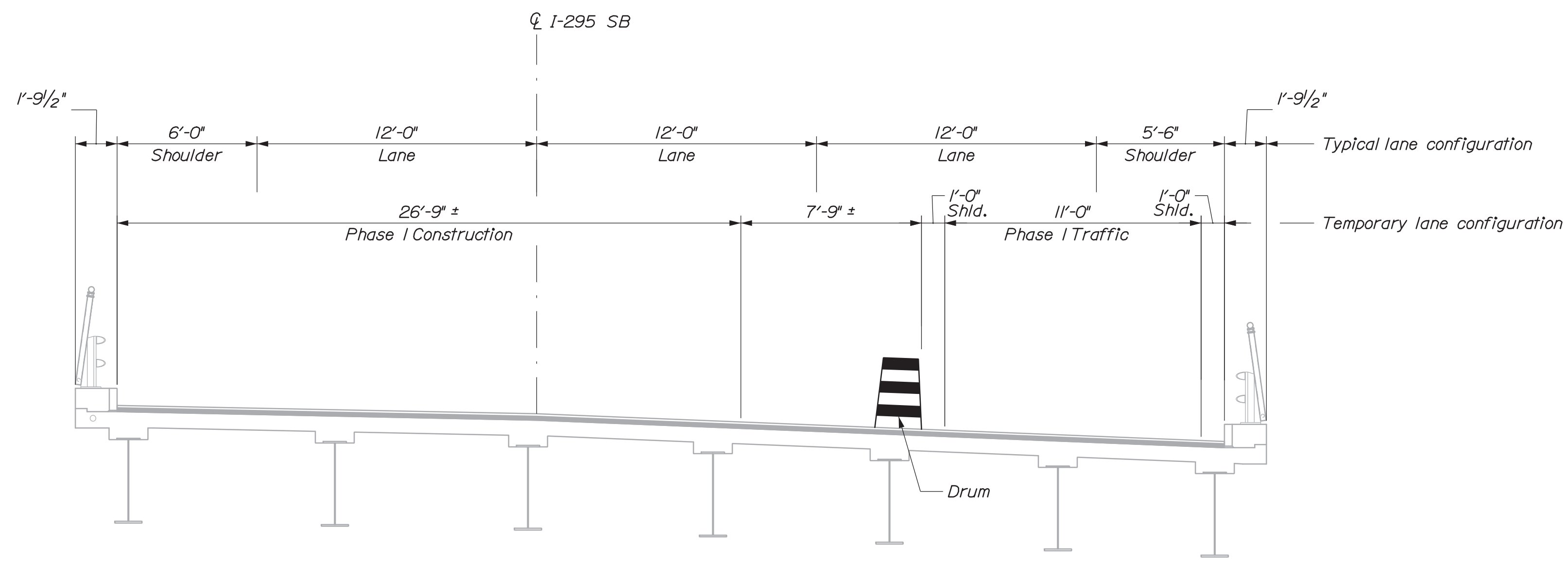
STATE OF MAINE
DEPARTMENT OF TRANSPORTATION
2361501
WIN
023615.01
BRIDGE PLANS

PROJ. MANAGER	DESIGN DETAILED	CHECKED/REVIEWED	DESIGN DETAILED	REVISIONS	DATE
M. Kershaugen	AJS	AJM	JKH	1	12/19
		TRC		2	12/19
				3	
				4	
				FIELD CHANGES	

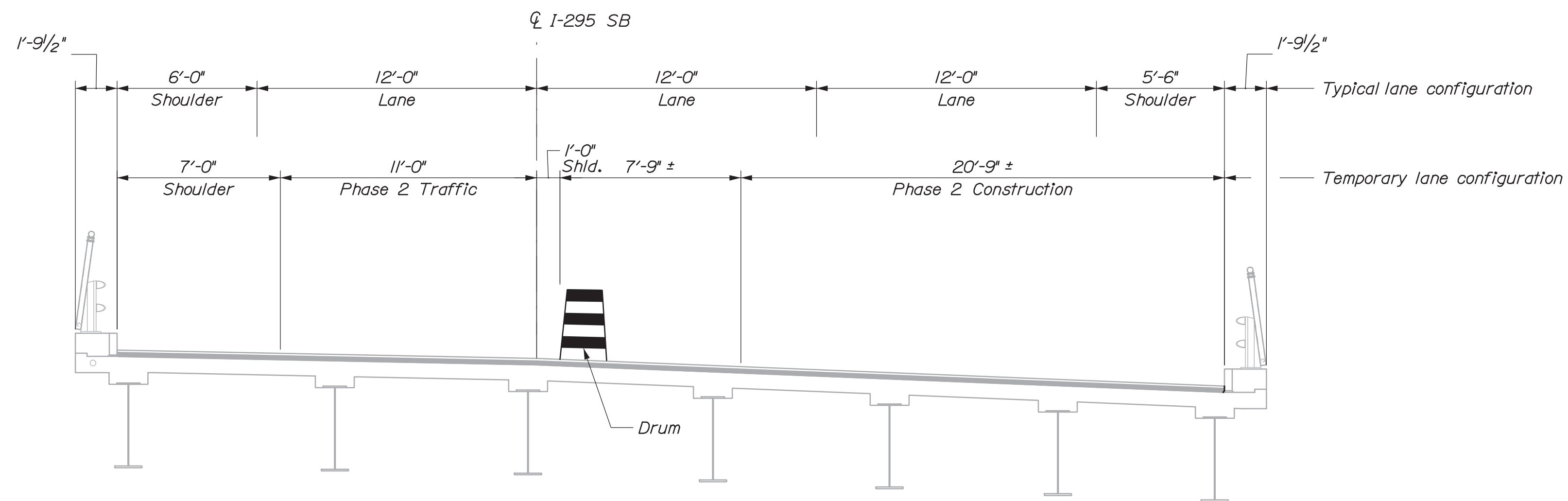
INTERSTATE 295 SOUTHBOUND
S. PORTLAND TO PORTLAND
CUMBERLAND COUNTY
**BRIDGE PHASING
FORE RIVER PARKWAY**

SHEET NUMBER
31
OF 52





PHASE 1
Interstate 295 over Congress Street



PHASE 2
Interstate 295 over Congress Street

NOTES:

1. Sections are shown looking northbound.
2. The Congress Street southbound on and off ramps shall be closed during bridge work. See Congress Street On and Off Ramp Detour Plan. The Fore River Parkway off ramp shall remain open during all construction phases.
3. The Congress Street bridge work zone is detailed to occur in a single continuous work zone with the St. James Street bridge work zone.

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION
2361501
WIN 023615.01
BRIDGE PLANS

DATE	12/19	SIGNATURE
BY	TRC	P.E. NUMBER
DATE		DATE

PROJ. MANAGER	M. Kershaugen
DESIGN DETAILED	AJS
CHECKED/REVIEWED	JRS
DESIGN DETAILED	
REVISIONS	
REVISIONS	
REVISIONS	
REVISIONS	
FIELD CHANGES	

INTERSTATE 295 SOUTHBOUND
S. PORTLAND TO PORTLAND
CUMBERLAND COUNTY
**BRIDGE PHASING
CONGRESS STREET**

SHEET NUMBER
32
OF 52

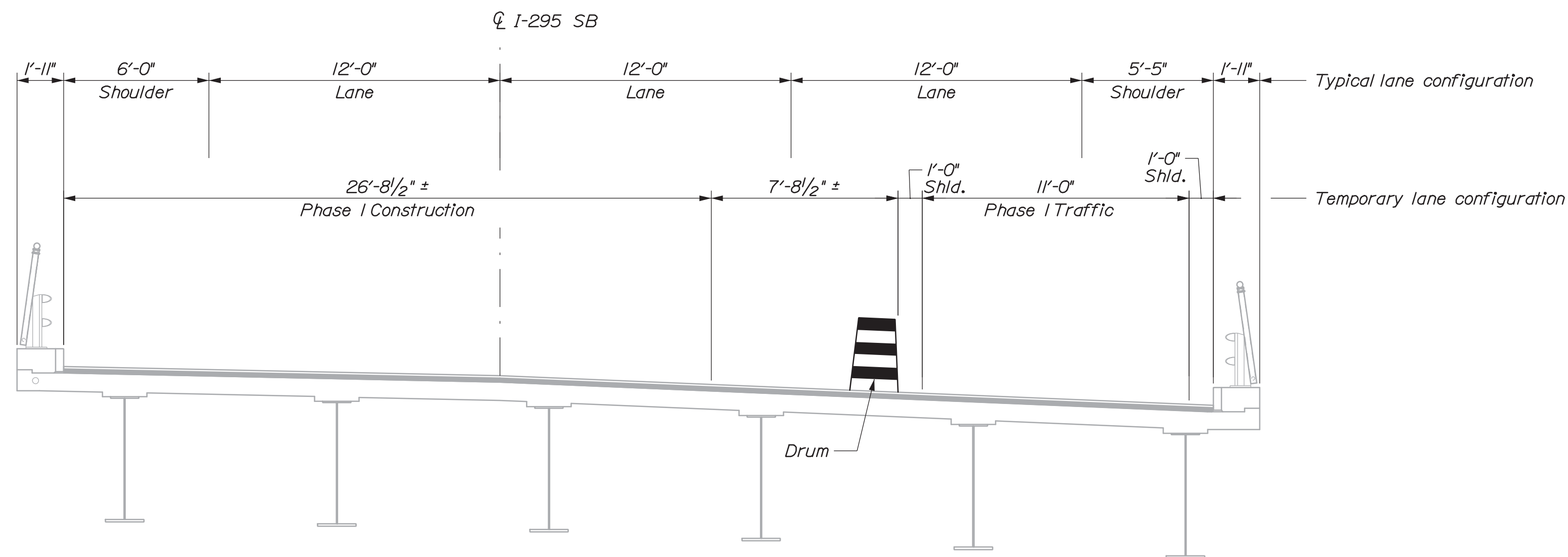


Date: 2/19/2020

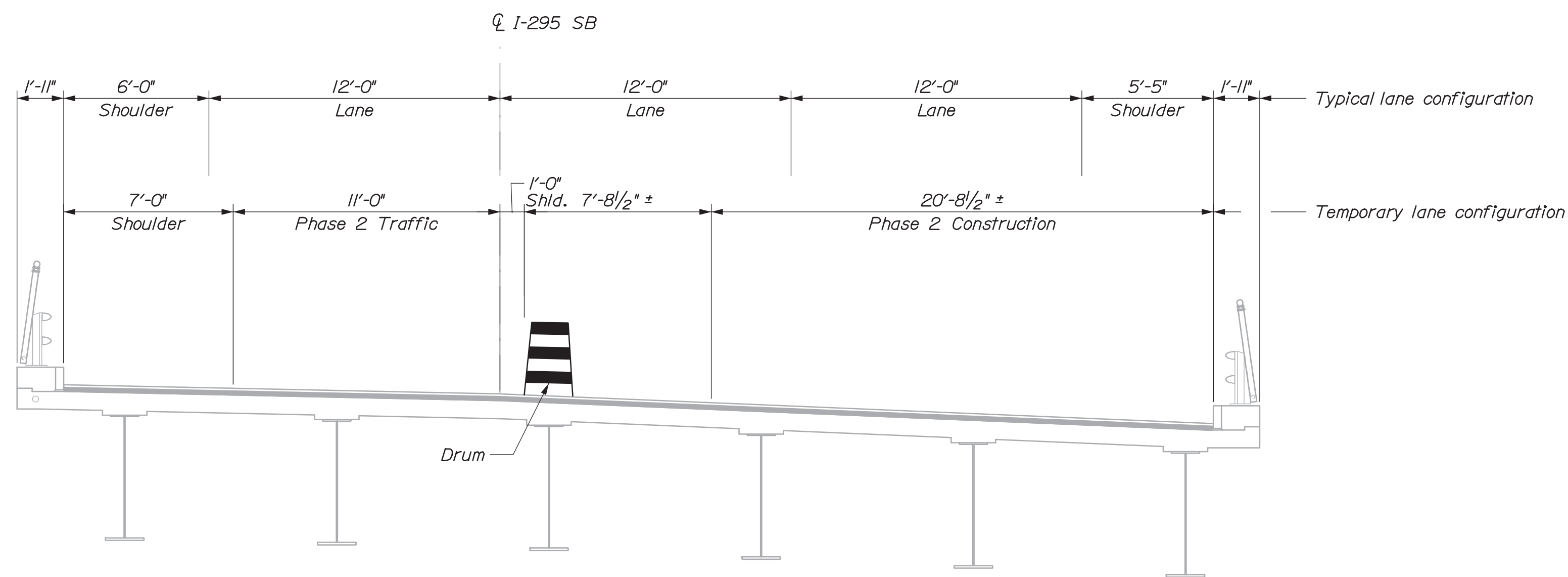
Username:

Division:

Filename: 033_St.James_Street_SB.dgn



PHASE 1
Interstate 295 over St. James Street



PHASE 2
Interstate 295 over St. James Street

NOTES:

1. Sections are shown looking northbound.
2. The Congress Street southbound on and off ramps shall be closed during bridge work. See Congress Street On and Off Ramp Detour Plan.
3. The Congress Street bridge work zone is detailed to occur in a single continuous work zone with the St. James Street bridge work zone.

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION
2361501
WIN
023615.01
BRIDGE PLANS

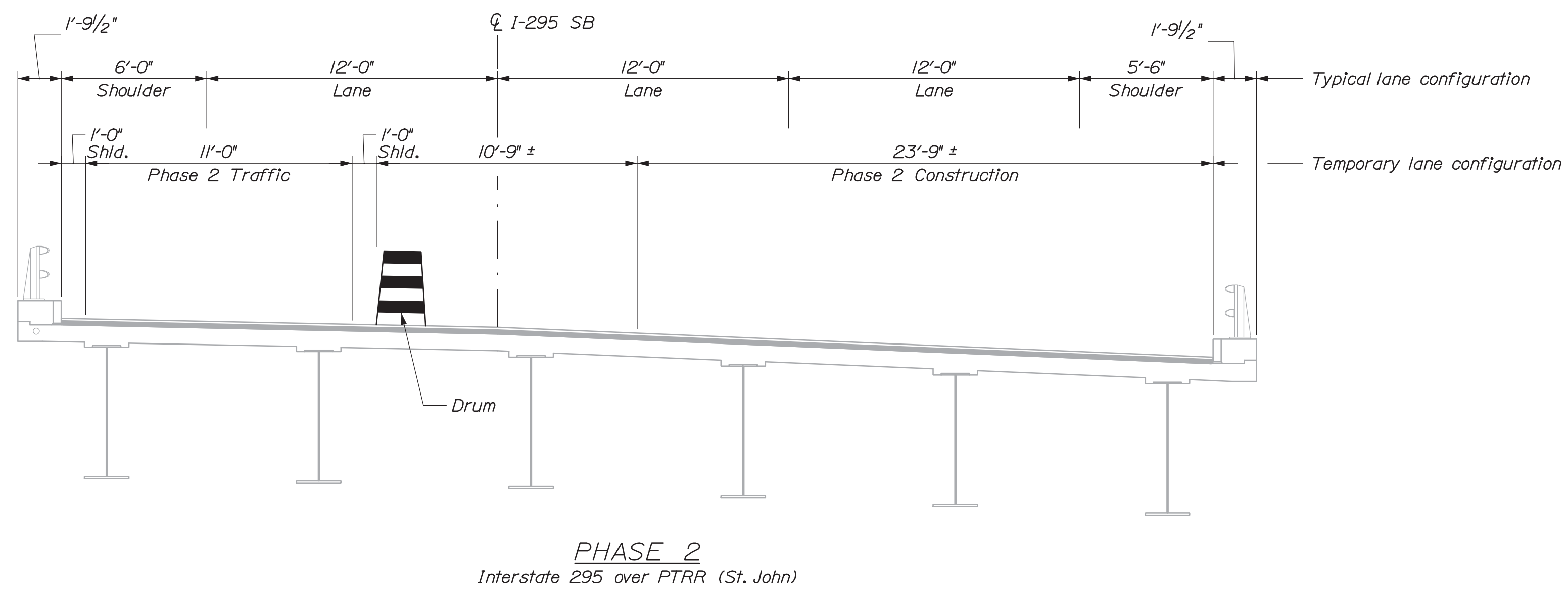
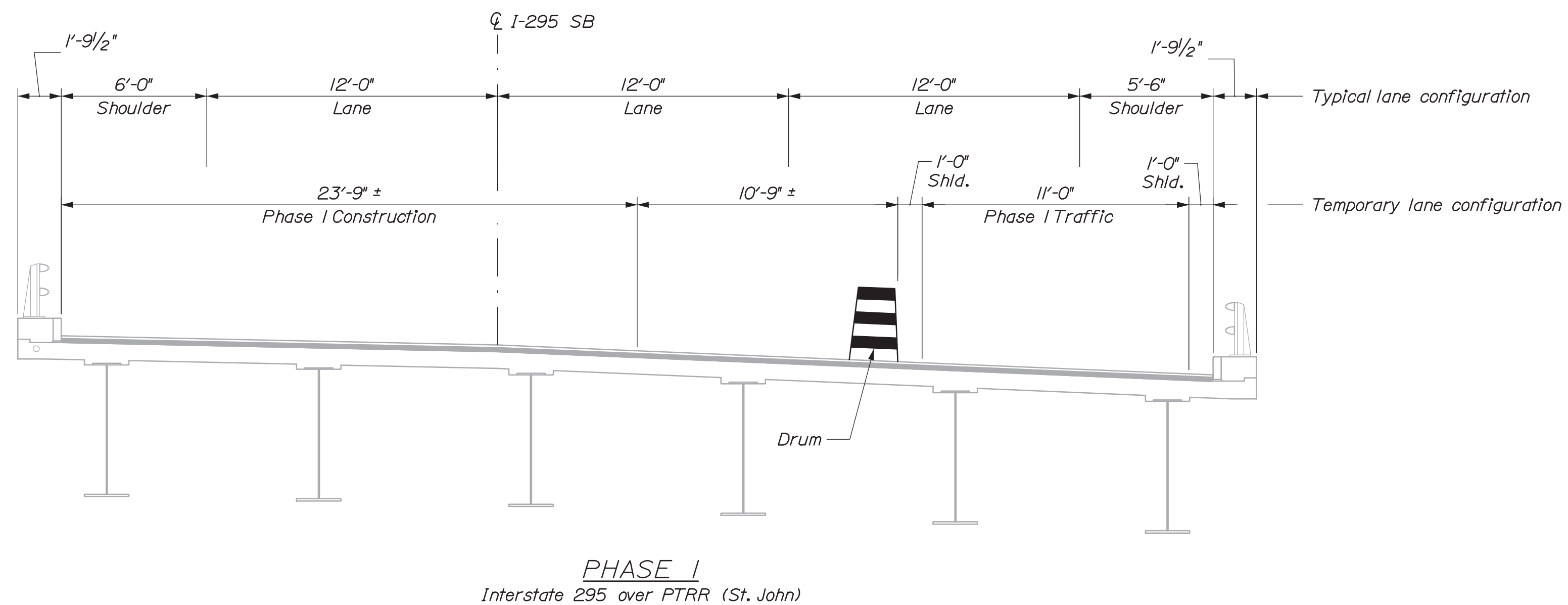
DATE	12/19	12/19
BY	AJM	TRC
PROJ. MANAGER	M. Kershaugen	
DESIGN DETAILED	AJS	
CHECKED/REVIEWED	JKH	
DESIGN DETAILED		
REVISIONS	1	
REVISIONS	2	
REVISIONS	3	
REVISIONS	4	
FIELD CHANGES		
SIGNATURE		
P.E. NUMBER		
DATE		

DATE	12/19	12/19
BY	AJM	TRC
PROJ. MANAGER	M. Kershaugen	
DESIGN DETAILED	AJS	
CHECKED/REVIEWED	JKH	
DESIGN DETAILED		
REVISIONS	1	
REVISIONS	2	
REVISIONS	3	
REVISIONS	4	
FIELD CHANGES		
SIGNATURE		
P.E. NUMBER		
DATE		

INTERSTATE 295 SOUTHBOUND
S. PORTLAND TO PORTLAND
CUMBERLAND COUNTY
BRIDGE PHASING
ST. JAMES STREET

SHEET NUMBER
33
OF 52





NOTES:

1. Sections are shown looking northbound.
2. The PTRR (St. John) bridge work zone is detailed to occur in a single continuous work zone with the St. John Street bridge work zone.

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION
2361501
WIN
023615.01
BRIDGE PLANS

DATE	12/19	BY	AJM	PROJ. MANAGER	M. Kershaugen
DATE	12/19	BY	TRC	CHECKED/REVIEWED	AJS
				DESIGNED/REVIEWED	JKH
				DESIGNED/REVIEWED	JKH
				REVISIONS 1	
				REVISIONS 2	
				REVISIONS 3	
				REVISIONS 4	
				FIELD CHANGES	

SIGNATURE	
P.E. NUMBER	
DATE	

INTERSTATE 295 SOUTHBOUND
S. PORTLAND TO PORTLAND
CUMBERLAND COUNTY
BRIDGE PHASING
PTRR (ST. JOHN STREET)

SHEET NUMBER

34

OF 52

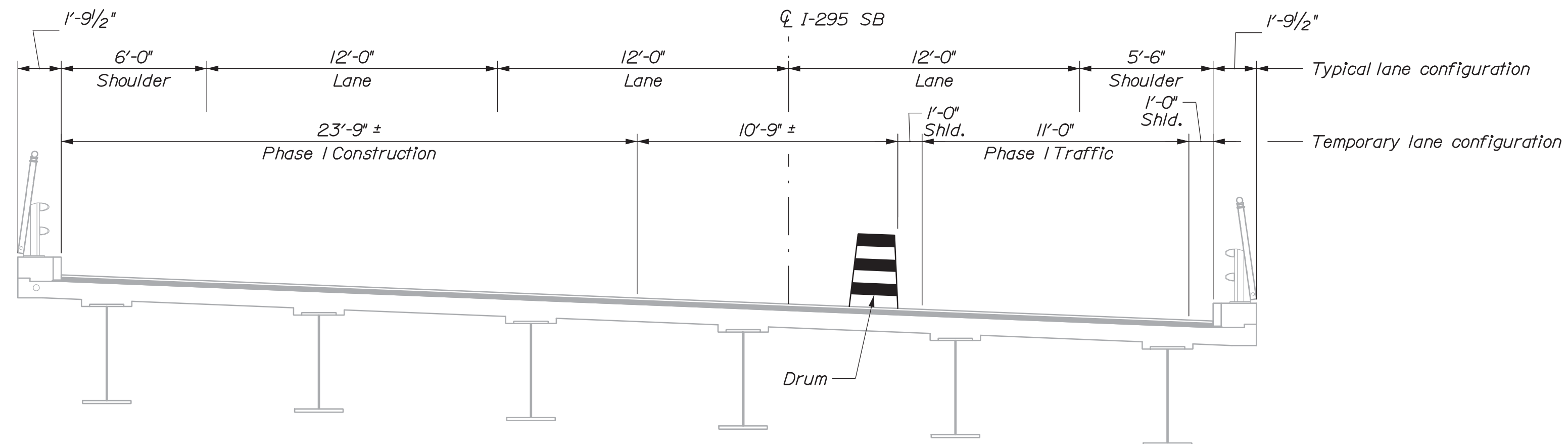


Date: 2/19/2020

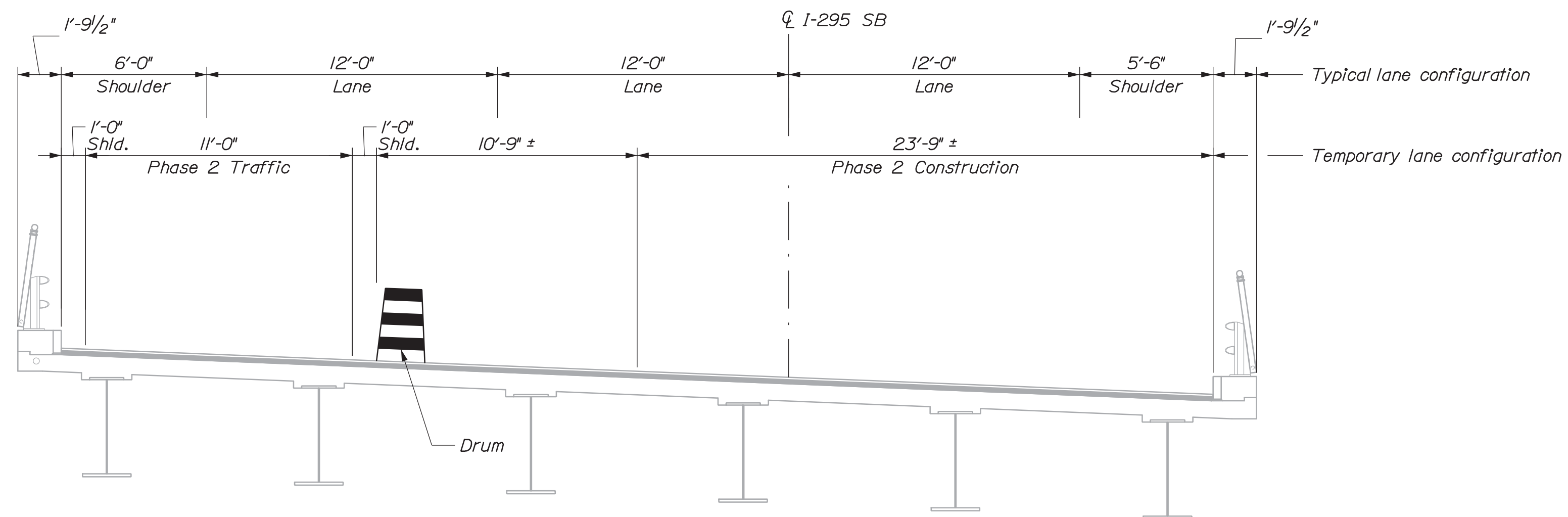
Username:

Division:

Filename: 035_St.John_Street_SB.dgn



PHASE 1
Interstate 295 over St. John Street



PHASE 2
Interstate 295 over St. John Street

NOTES:

1. Sections are shown looking northbound.
2. The PTRR (St. John) bridge work zone is detailed to occur in a single continuous work zone with the St. John Street bridge work zone.

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION
2361501
WIN
023615.01
BRIDGE PLANS

SIGNATURE
P.E. NUMBER
DATE

PROJ. MANAGER	M. Kersbergen	BY	DATE
DESIGN DETAILED	AJS	AJM	12/19
CHECKED/REVIEWED	JKH	TRC	12/19
DESIGN DETAILED			
REVISIONS			
REVISIONS			
REVISIONS			
REVISIONS			
FIELD CHANGES			

INTERSTATE 295 SOUTHBOUND
S. PORTLAND TO PORTLAND
CUMBERLAND COUNTY
BRIDGE PHASING
ST. JOHN STREET

SHEET NUMBER
35
OF 52

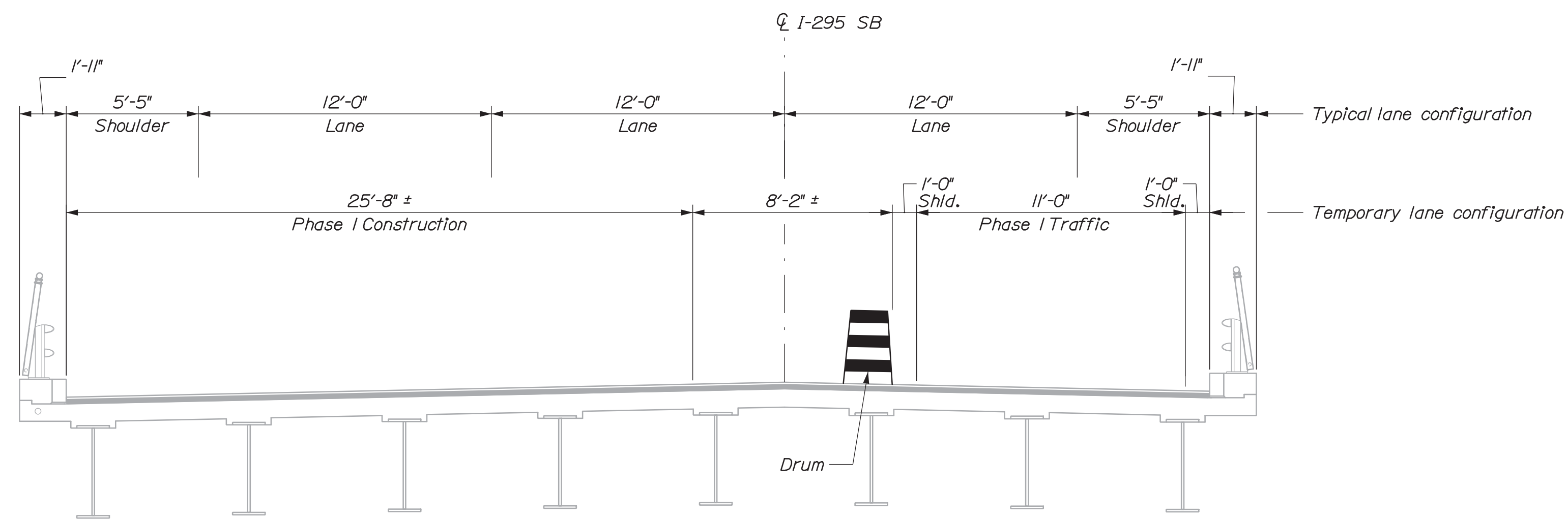


Date: 2/19/2020

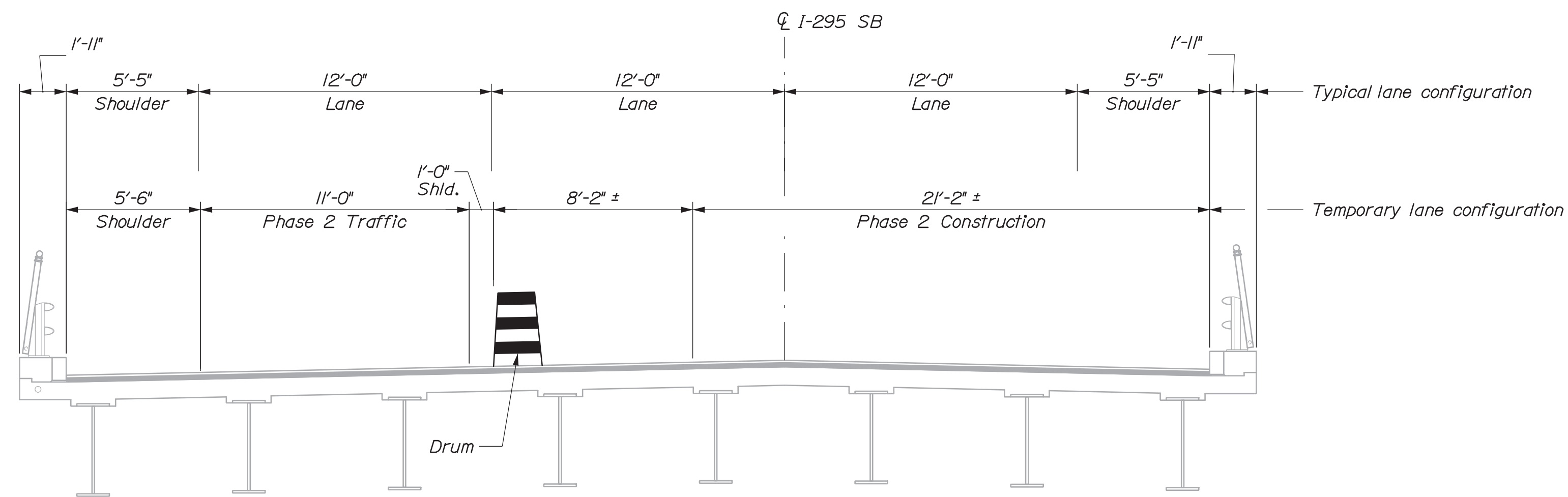
Username:

Division:

Filename: 036_Forest_Ave_SB.dgn



PHASE 1
Interstate 295 over Forest Avenue



PHASE 2
Interstate 295 over Forest Avenue

NOTES:

1. Sections are shown looking northbound.
2. Both Forest Avenue southbound off ramps, and the westbound on ramp, shall be closed during bridge work. See Forest Avenue On and Off Ramp Detour Plan.
3. The Forest Avenue bridge work zone is detailed to occur in a single continuous work zone with the Preble Street bridge work zone.

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION
2361501
WIN
023615.01
BRIDGE PLANS

DATE	12/19	BY	TRC	SIGNATURE
DATE		BY		P.E. NUMBER
DATE		BY		DATE

PROJ. MANAGER	M. Kershaugen	DESIGN DETAILED	AJS
CHECKED/REVIEWED	JKH	DESIGN DETAILED	JKH
DESIGN DETAILED		REVISIONS 1	
REVISIONS 1		REVISIONS 2	
REVISIONS 2		REVISIONS 3	
REVISIONS 3		REVISIONS 4	
REVISIONS 4		FIELD CHANGES	

INTERSTATE 295 SOUTHBOUND
S. PORTLAND TO PORTLAND
CUMBERLAND COUNTY
**BRIDGE PHASING
FOREST AVENUE**

SHEET NUMBER
36
OF 52

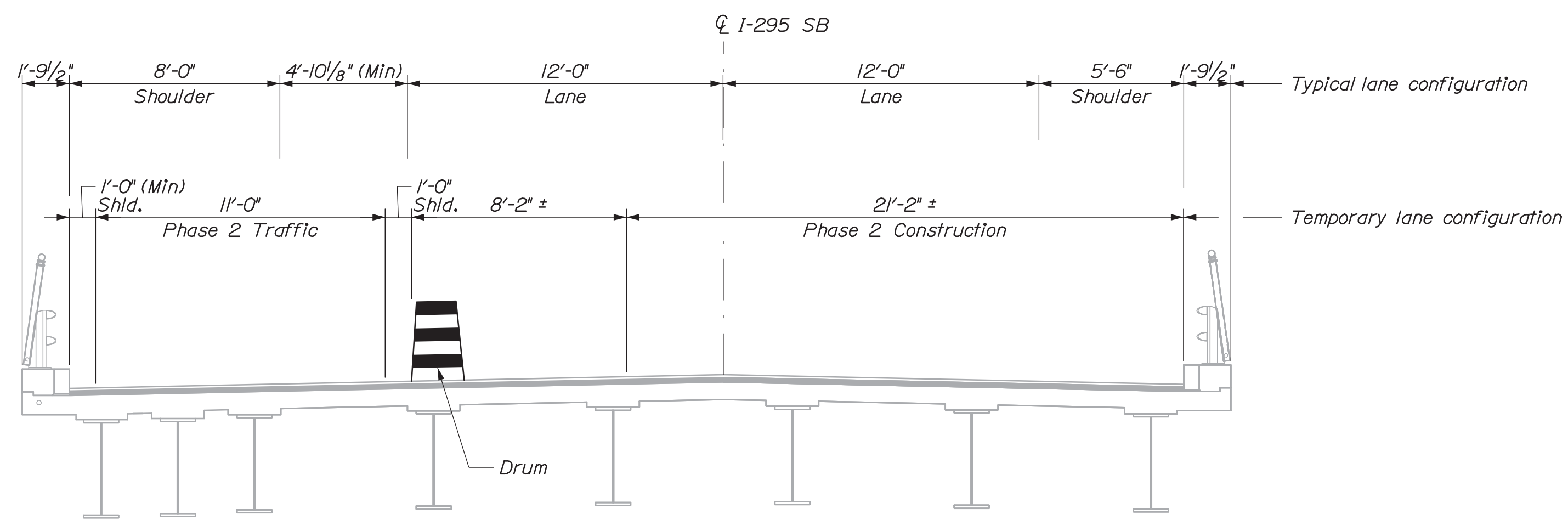
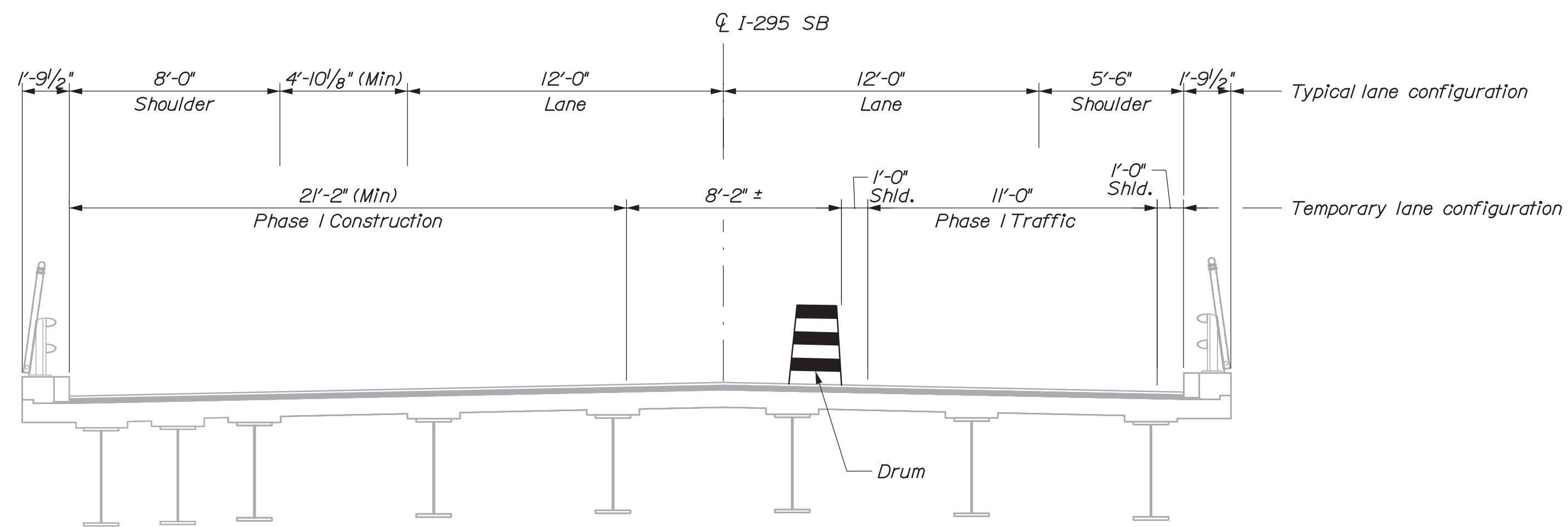


Date: 2/19/2020

Username:

Division:

Filename: 037_Prebler_Street_SB.dgn



NOTES:

1. Sections are shown looking northbound.
2. Both Forest Avenue southbound off ramps and the westbound on ramp shall be closed during bridge work see Forest Avenue On and Off Ramp Detour Plan.
3. The Forest Avenue bridge work zone is detailed to occur in a single continuous work zone with the Preble Street bridge work zone.

STATE OF MAINE DEPARTMENT OF TRANSPORTATION	2361501
WIN	023615.01
BRIDGE PLANS	

	SIGNATURE
	P.E. NUMBER
	DATE

PROJ. MANAGER	M. Kershaugen	BY	AJM	DATE	12/19
DESIGN DETAILED	AJS	CHECKED	TRC	DATE	12/19
DESIGN REVIEWED	JKH	DESIGN DETAILED			
DESIGN DETAILED		REVISIONS 1			
		REVISIONS 2			
		REVISIONS 3			
		REVISIONS 4			
		FIELD CHANGES			

INTERSTATE 295 SOUTHBOUND
S. PORTLAND TO PORTLAND
CUMBERLAND COUNTY
**BRIDGE PHASING
PREBLE STREET**

SHEET NUMBER
37
OF 52

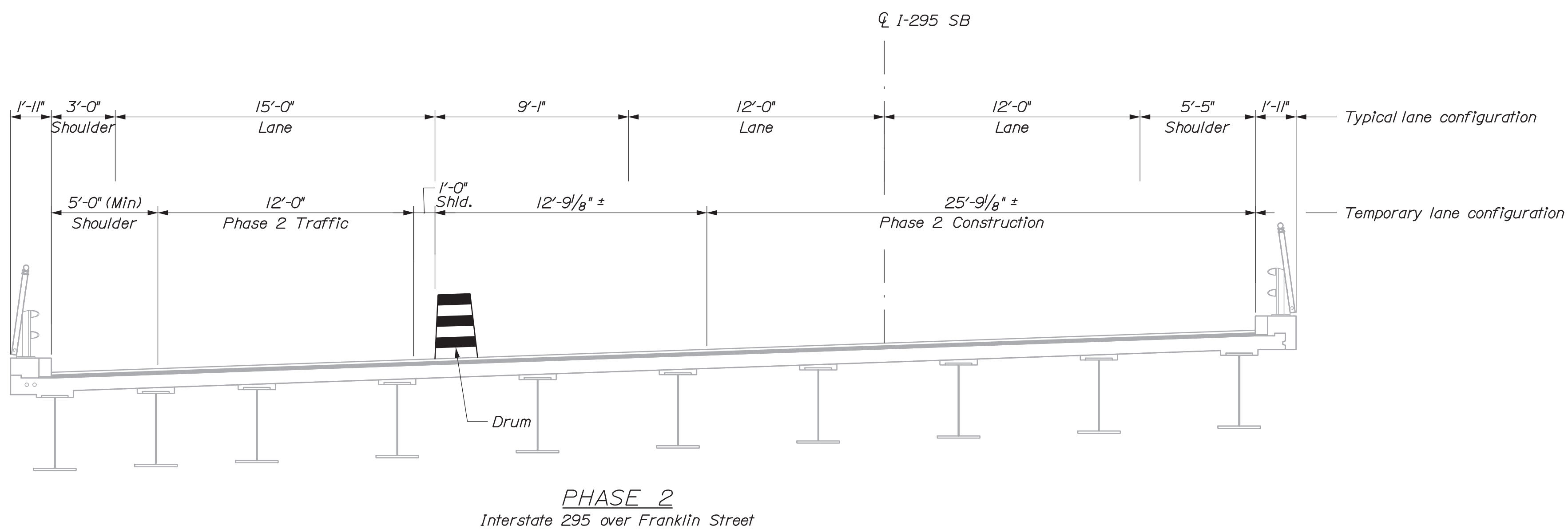
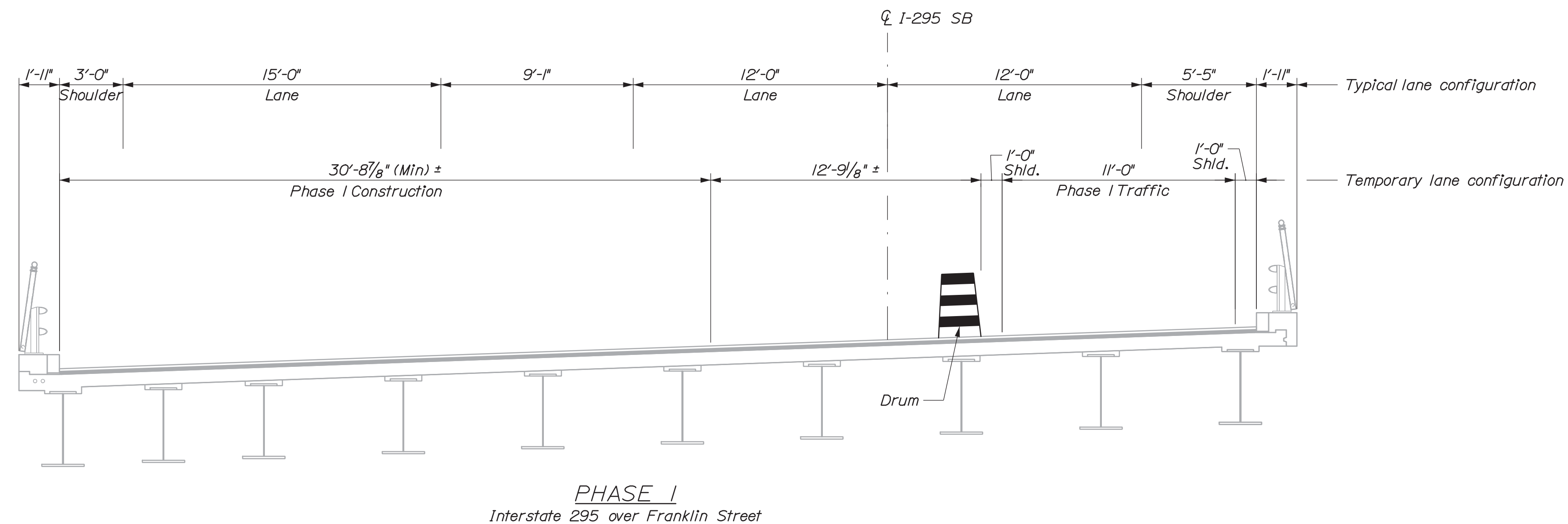


Date: 2/19/2020

Username:

Division:

Filename: 038_Franklin_Street_SB.dgn



NOTES:

1. Sections are shown looking northbound.
2. The Franklin Street on ramp shall be closed during bridge work. See Franklin Street On Ramp Detour Plan.

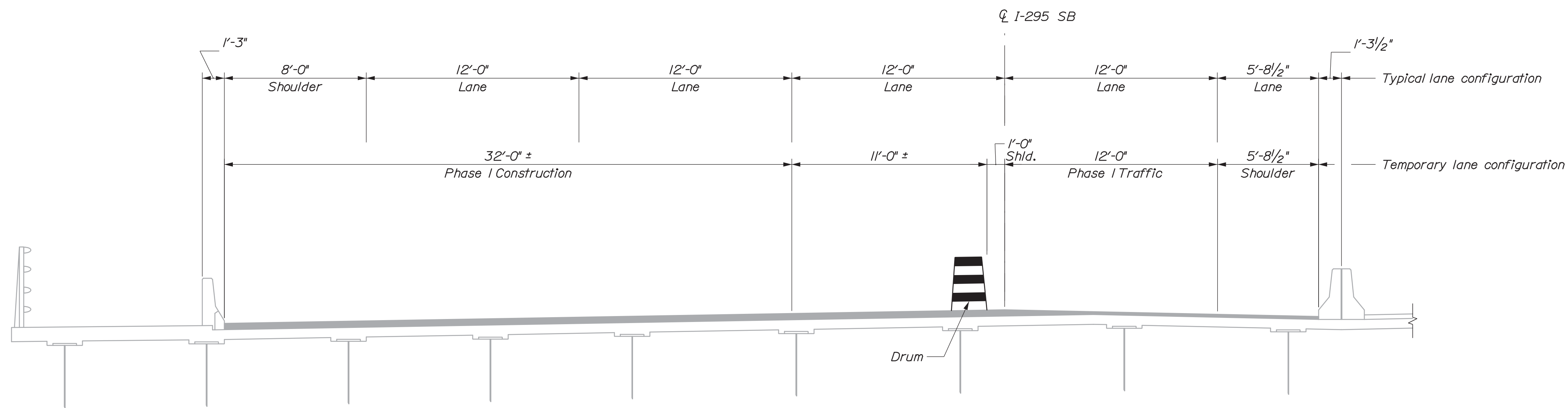
STATE OF MAINE DEPARTMENT OF TRANSPORTATION		2361501		WIN 023615.01		BRIDGE PLANS	
INTERSTATE 295 SOUTHBOUND S. PORTLAND TO PORTLAND CUMBERLAND COUNTY		BRIDGE PHASING FRANKLIN STREET		SHEET NUMBER 38		OF 52	
PROJ. MANAGER	M. Kershaugen	BY	AJM	DATE	12/19	SIGNATURE	
DESIGN/DETAILED	AJS	BY	TRC	DATE	12/19	P.E. NUMBER	
CHECKED/REVIEWED	JKH					DATE	
DESIGN/DETAILED							
REVISIONS	1						
REVISIONS	2						
REVISIONS	3						
REVISIONS	4						
FIELD CHANGES							

Date: 2/19/2020

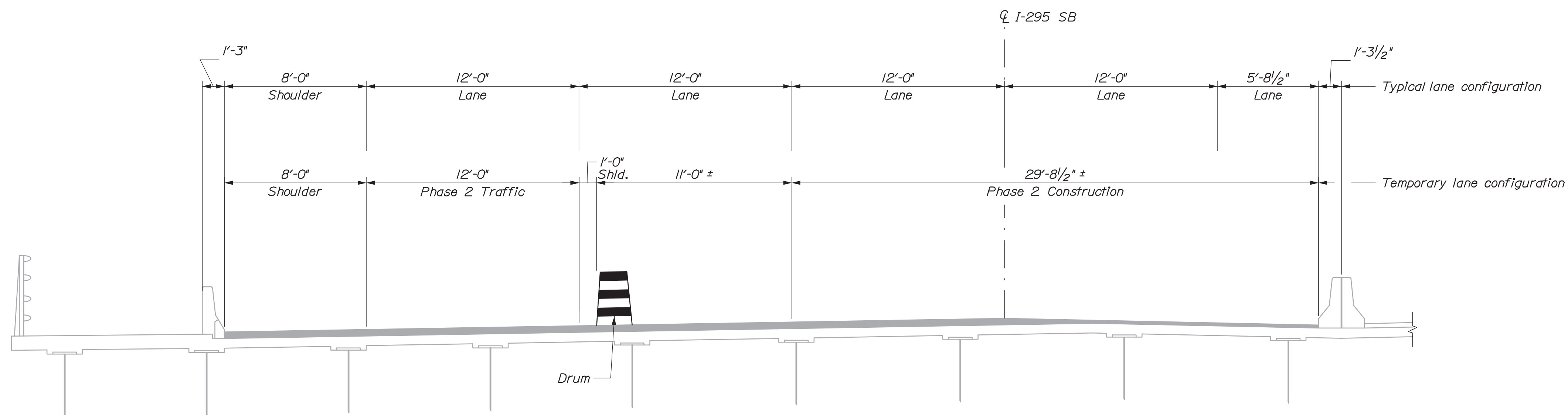
Username:

Division:

Filename: 039_Tukeys_Bridge_SB.dgn



PHASE 1
Interstate 295 on Tukey's Bridge



PHASE 2
Interstate 295 on Tukey's Bridge

NOTES:

1. Sections are shown looking northbound.
2. The Washington Street on ramp shall be closed during bridge work. See Washington Street On Ramp Detour Plan.



STATE OF MAINE
DEPARTMENT OF TRANSPORTATION
2361501
WIN
023615.01
BRIDGE PLANS

DATE	12/19	12/19
BY	AJM	TRC
PROJ. MANAGER	M. Kershaugen	
DESIGN DETAILED	AJS	
CHECKED/REVIEWED	JKH	
DESIGN DETAILED		
REVISIONS		
REVISIONS		
REVISIONS		
REVISIONS		
FIELD CHANGES		

SIGNATURE	P.E. NUMBER	DATE

INTERSTATE 295 SOUTHBOUND
S. PORTLAND TO PORTLAND
CUMBERLAND COUNTY
**BRIDGE PHASING
TUKEY'S BRIDGE**

SHEET NUMBER
39
OF 52

Date: 2/19/2020

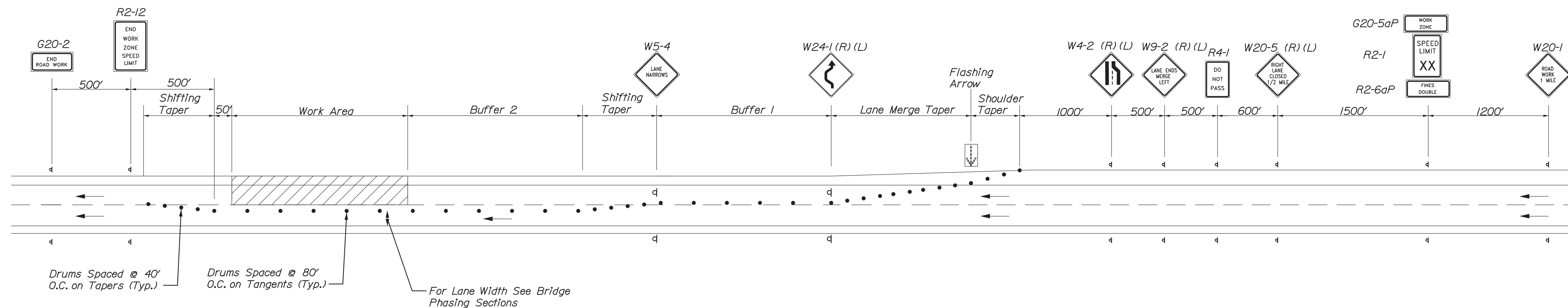
Username:

Division:

Filename: 040_MOT_TypicalDetail.dgn

Taper Table

Work Zone	Bridge	Work Zone Speed (mph)	Buffer 2 (ft)	Phase 1 Shifting Taper (ft)	Phase 2 Shifting Taper (ft)	Buffer 1 (ft)	Lane Merge Taper (ft)	Shoulder Taper (ft)
1	Route 703	45	100	215	215	100	540	180
2	Westbrook Street	45	100	150	495	100	540	180
3	Fore River	45	360	260	260	360	540	180
4	PTRR (Fore River)	40	100	230	230	100	320	110
4	Fore River Parkway	40	100	230	230	100	320	110
5	Congress Street	40	150	160	160	150	320	110
5	St. James Street	40	150	160	160	150	320	110
6	PTRR (St. John)	40	305	240	240	305	320	110
6	St. John Street	40	305	240	240	305	320	110
7	Forest Avenue	40	100	175	175	100	320	110
7	Preble Street	40	100	175	175	100	320	110
8	Franklin Street	40	305	75	N/A	285	320	110
9	Tukey's Bridge - North Abutment	40	305	320	320	400	320	110
9	Tukey's Bridge - South Abutment	40	N/A	0	160	N/A	320	110



Standard Lane Closure Detail

Detail Shown Is For Travel Lane Closure.
Passing Lane Closure Similar, But Opposite Hand.

NOTES:

- Shoulder taper drums shall be replaced with drums on the auxiliary lane line extending to close the Fore River Parkway On Ramp during Fore River bridge work.
- The merging taper for the Fore River Parkway bridge will extend 100' into the Congress Street On/Off Ramp auxiliary lane. The contractor shall omit the shoulder taper at this location and place drums along the perimeter of the Congress Street (Exit 5A) Off Ramp gore.
- The Congress Street, St James Street, PTRR (St. John), and St. John Street lane closures will conflict with the Congress Street (Exit 5B) off ramp and deceleration lane and shoulder taper drums shall be replaced with drums on the deceleration lane line extending to close the off ramp deceleration lane.
- Construction sign placement shall be adjusted by the Resident to avoid conflicts with existing signing.
- This detail shall be modified for individual locations and phases as shown in the "Traffic Control Plans", for Route 703, Westbrook Street and Franklin Street.

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION
2361501
WIN
023615.01
BRIDGE PLANS

PROJ. MANAGER	DATE	BY	DATE	SIGNATURE	P.E. NUMBER	DATE
M. Kershaugen	12/19	EPR	12/19			
AUS		TRC				
DESIGN DETAILED						
CHECKED/REVIEWED						
DESIGN DETAILED						
REVISIONS 1						
REVISIONS 2						
REVISIONS 3						
REVISIONS 4						
FIELD CHANGES						

INTERSTATE 295 SOUTHBOUND
S. PORTLAND TO PORTLAND
CUMBERLAND COUNTY
TRAFFIC CONTROL
DETAILS

SHEET NUMBER
40
OF 52

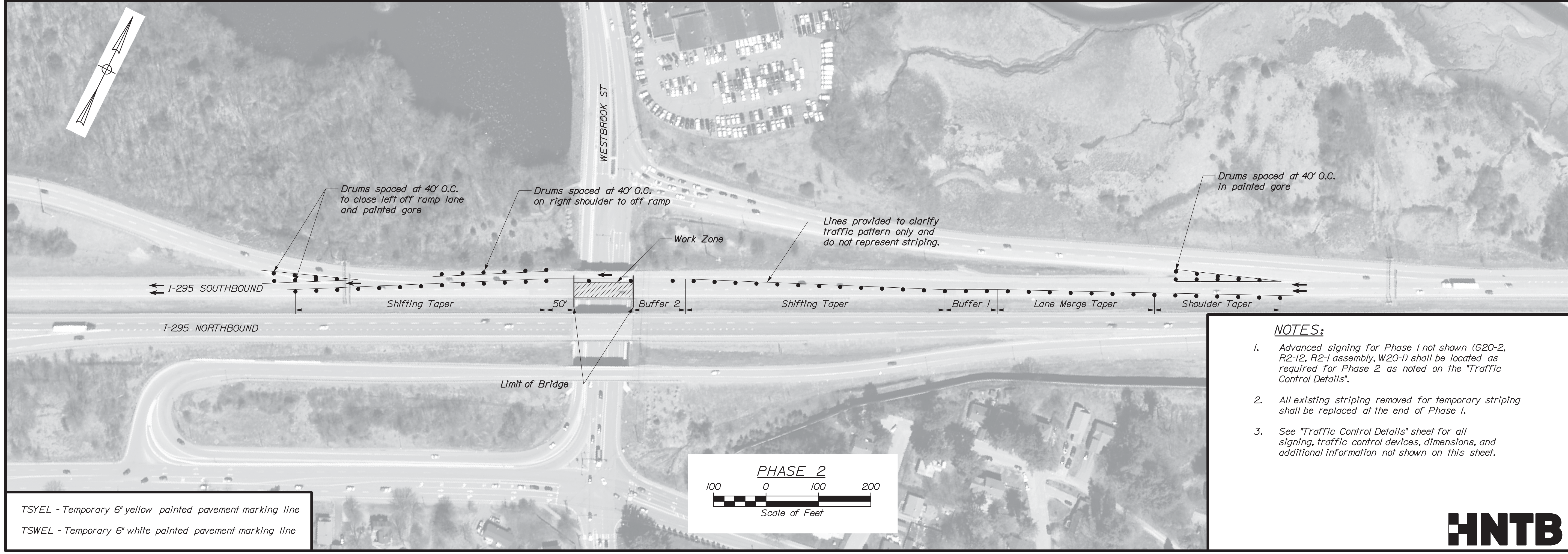
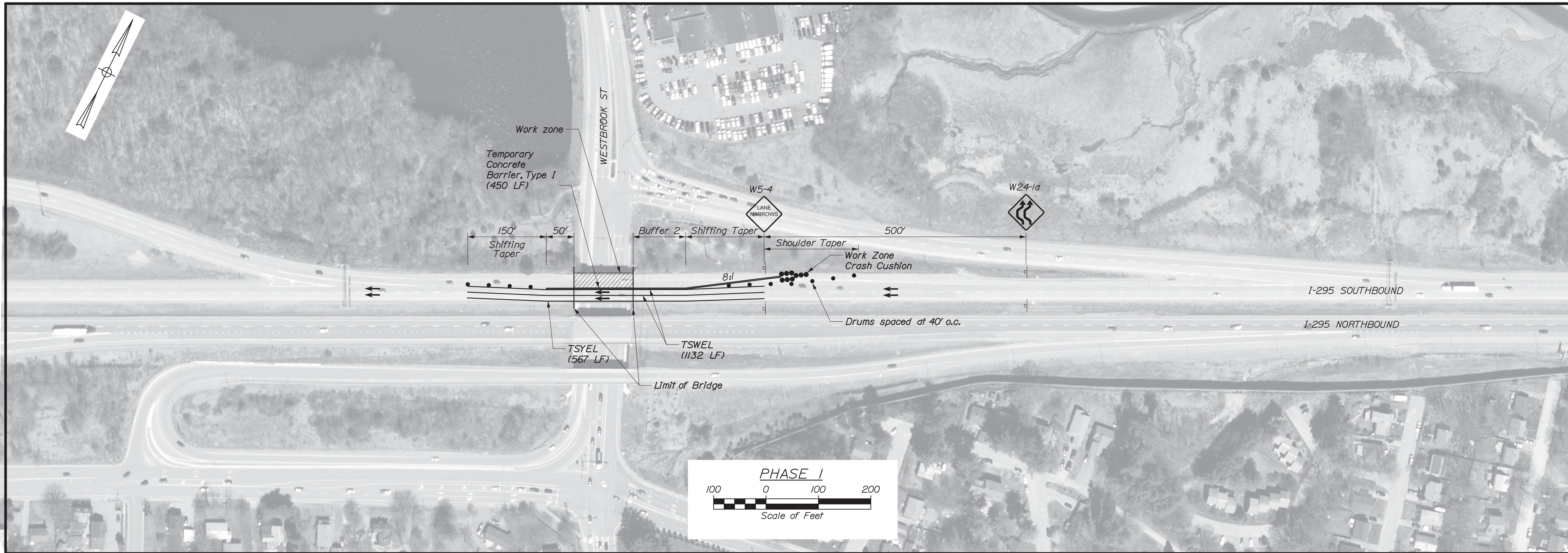


Date: 2/19/2020

Username:

Division:

Filename: 042_Westbrook St MOT Detail.dgn



TSYEL - Temporary 6" yellow painted pavement marking line
 TSWEL - Temporary 6" white painted pavement marking line

- NOTES:**
- Advanced signing for Phase I not shown (G20-2, R2-12, R2-1 assembly, W20-1) shall be located as required for Phase 2 as noted on the "Traffic Control Details".
 - All existing striping removed for temporary striping shall be replaced at the end of Phase I.
 - See "Traffic Control Details" sheet for all signing, traffic control devices, dimensions, and additional information not shown on this sheet.

STATE OF MAINE		DEPARTMENT OF TRANSPORTATION		2361501		WIN		023615.01		BRIDGE NO. Varies		BRIDGE PLANS	
INTERSTATE 295 SOUTHBOUND		S. PORTLAND TO PORTLAND		CUMBERLAND COUNTY		TRAFFIC CONTROL PLAN		WESTBROOK STREET		SHEET NUMBER		42	
PROJ. MANAGER	DATE	BY	DATE	DESIGNED	DATE	CHECKED	DATE	DESIGNED	DATE	REVISIONS	DATE	DATE	DATE
AJS	12/19	JRC	12/19	JRC	12/19	JRC	12/19	JRC	12/19	1			
										2			
										3			
										4			
										FIELD CHANGES			

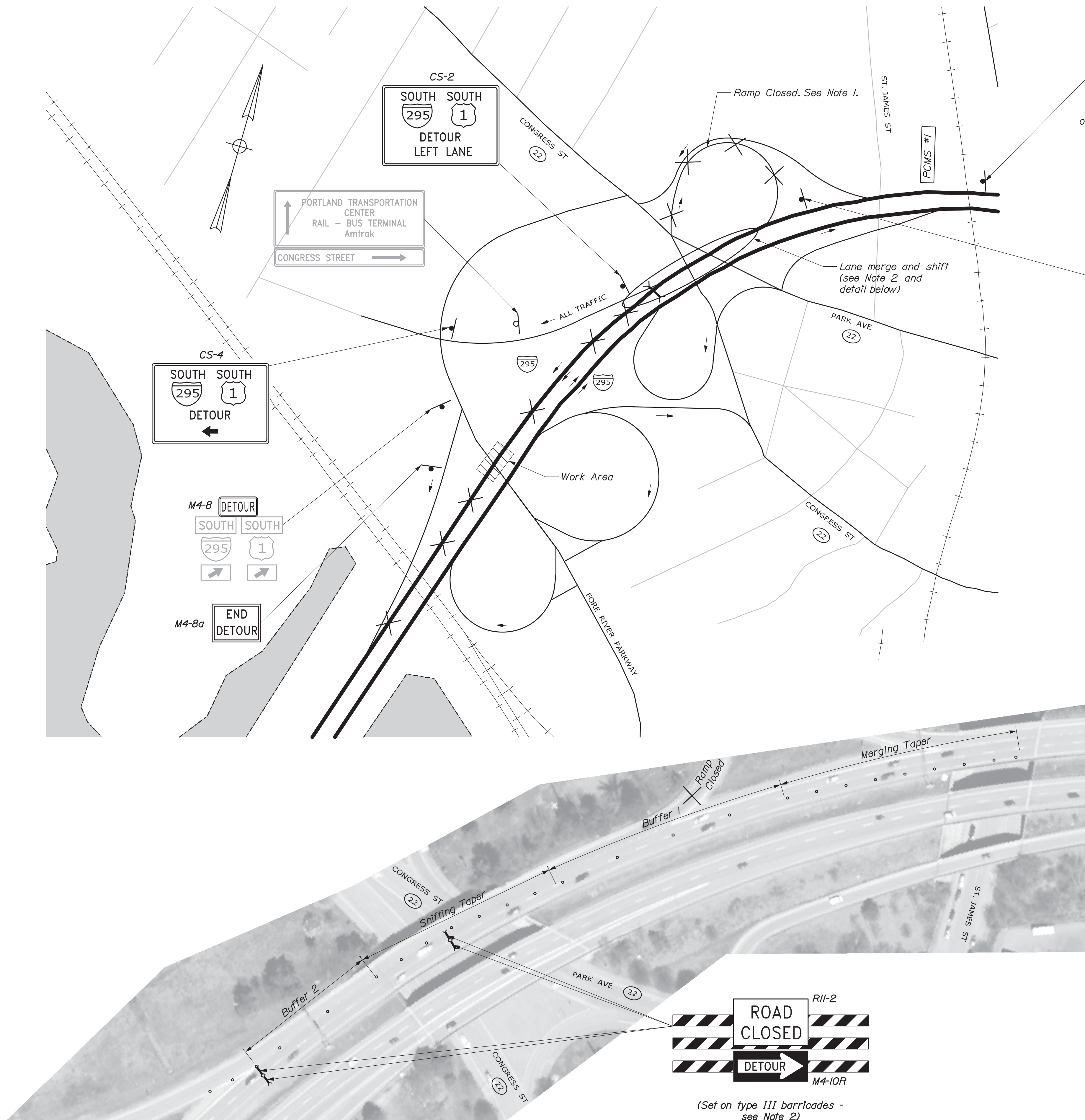


Date: 2/19/2020

Username:

Division:

Filename: 044_PanAM_ForeRiver_Phase2.dgn



NOTES:

1. The Congress Street on ramp detour must be used in conjunction with this I-295 detour.
2. The lane shifting taper and merge taper detail shall be used to close the left lane and shift a single lane into the deceleration lane starting at the Exit 5A off ramp painted gore. Buffer 1 and 2 shall be 305'. The shifting taper shall be 160' and the merging taper shall be 320'.
3. Type III barricades shall extend across the entire pavement width and spaced at a maximum of 6'.

STATE OF MAINE
 DEPARTMENT OF TRANSPORTATION
 2361501
 WIN 023615.01
 BRIDGE NO. Varies BRIDGE PLANS

PROJ. MANAGER	DATE	BY	DATE
DESIGN/DETAILED: AJS	12/19	AJS	12/19
CHECKED/REVIEWED: JRH		JRH	
DESIGN/DETAILED: -		-	
REVISIONS: 1			
REVISIONS: 2			
REVISIONS: 3			
REVISIONS: 4			
FIELD CHANGES:			

SIGNATURE	P.E. NUMBER	DATE

INTERSTATE 295 SOUTHBOUND
 S. PORTLAND TO PORTLAND
 CUMBERLAND COUNTY
 I-295 SOUTHBOUND
 DETOUR PLAN

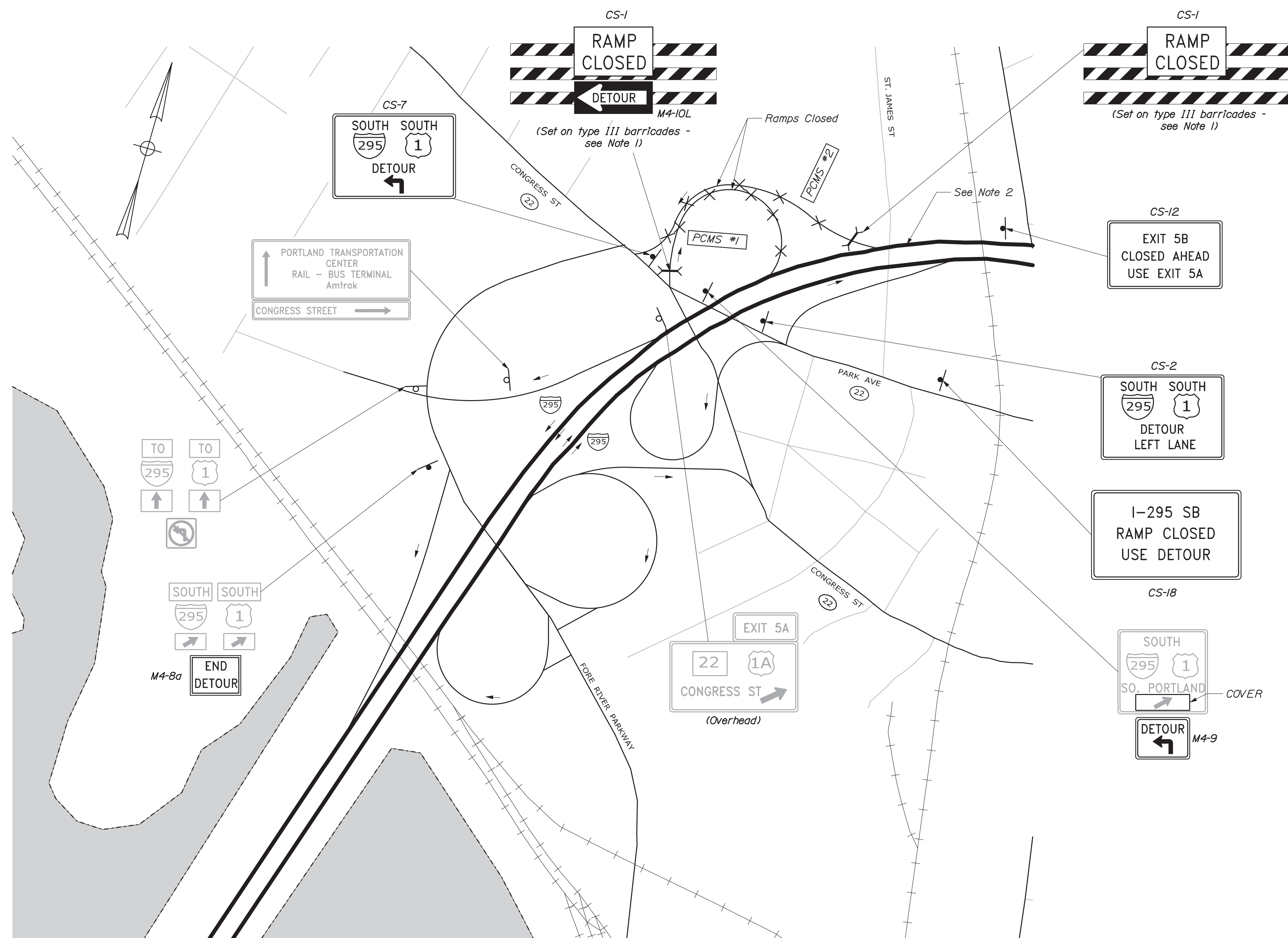
SHEET NUMBER
44
 OF 52

Date: 2/19/2020

Username:

Division:

Filename: 046_CongressSt_StJames.dgn



PCMS #1,2
(1 Week prior to closure)

RAMP
CLOSED
NIGHTS

XX/XX
TO
XX/XX

NOTES:

1. Type III barricades shall extend across the entire pavement width and spaced at a maximum 6'.
2. The Congress Street On Ramp Detour to be used during Fore River Parkway, Congress Street, and St. James Street bridge work.
3. The Congress Street Off Ramp Detour to be used during Congress Street and St. James Street bridge work.

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION
2361501
WIN
023615.01
BRIDGE PLANS

DATE	BY	PROJ. MANAGER	DESIGN DETAILED	CHECKED	DESIGN REVIEWED	DESIGN DET AILED	REVISIONS 1	REVISIONS 2	REVISIONS 3	REVISIONS 4	FIELD CHANGES
12/19	AM	M. Kershner/gen	AUS	JRH	JRH	-	-	-	-	-	-
12/19	JRC										

SIGNATURE	P.E. NUMBER	DATE

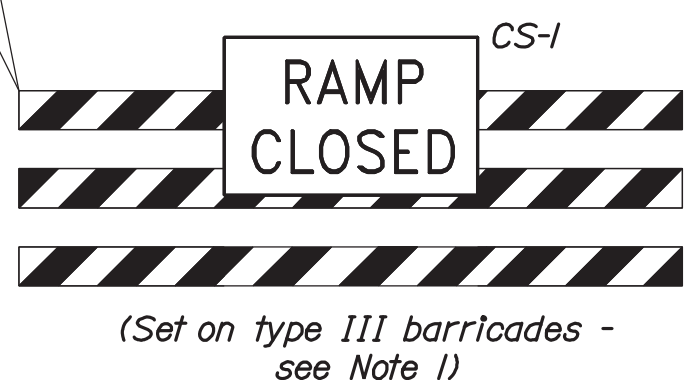
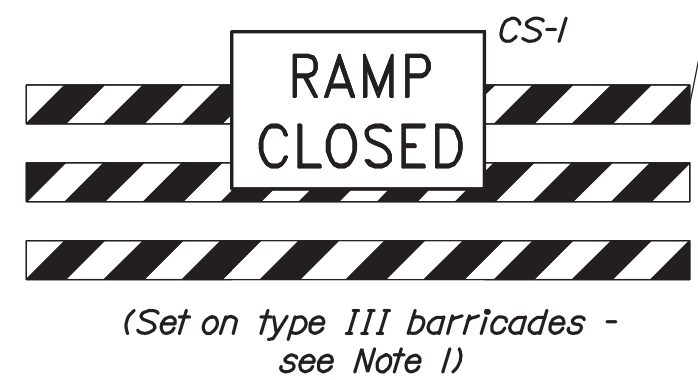
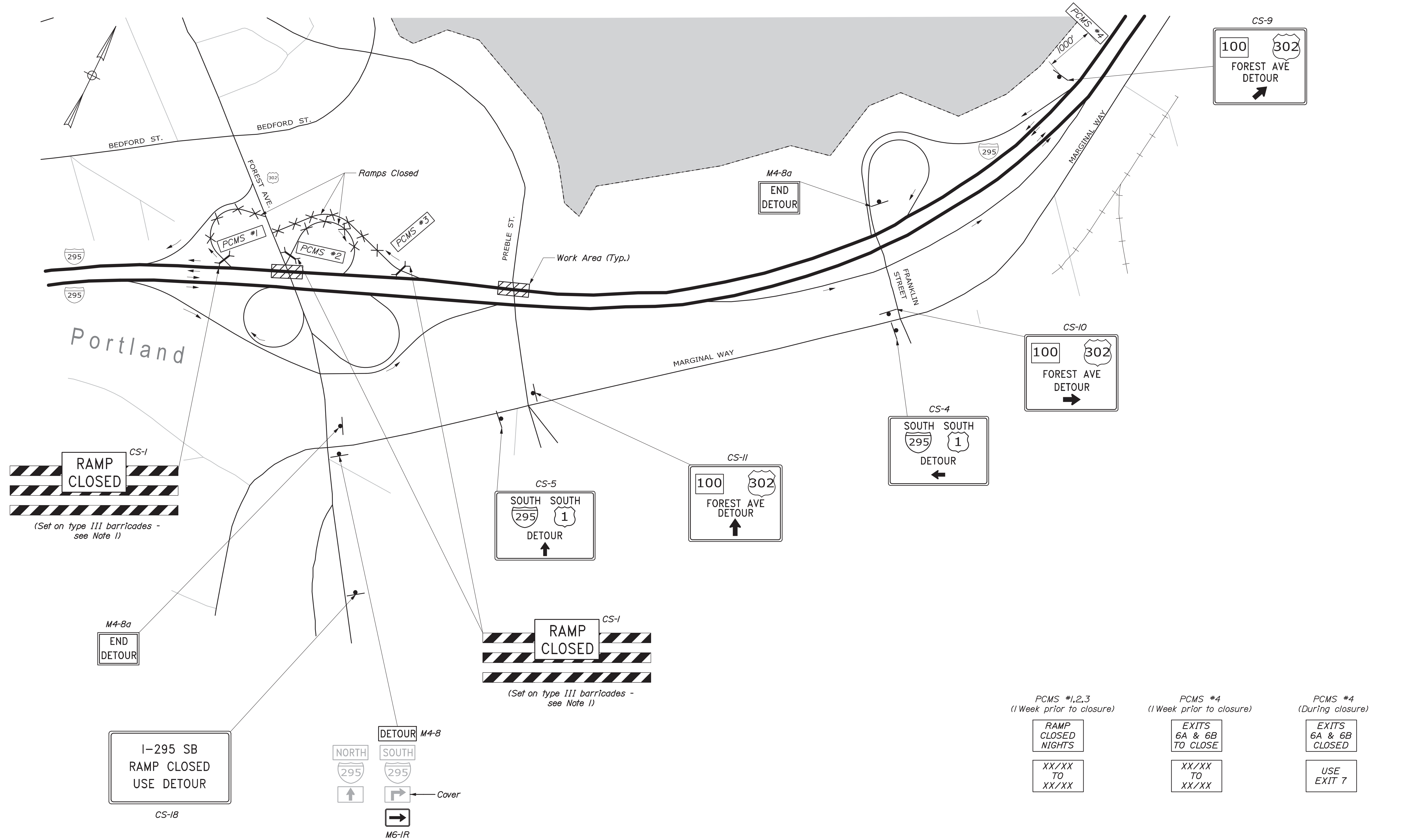
INTERSTATE 295 SOUTHBOUND
S. PORTLAND TO PORTLAND
CUMBERLAND COUNTY
CONGRESS STREET ON & OFF RAMP
DETOUR PLAN

SHEET NUMBER
46
OF 52

Date: 2/19/2020

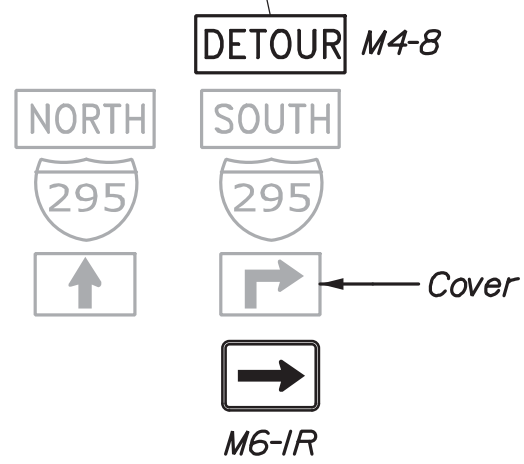
Username:

Filename: 047_ForestAve_PrebSt_Ramp_Closure.dwg



CS-1B

I-295 SB
RAMP CLOSED
USE DETOUR



PCMS #1,2,3
(1 Week prior to closure)

RAMP
CLOSED
NIGHTS

XX/XX
TO
XX/XX

PCMS #4
(1 Week prior to closure)

EXITS
6A & 6B
TO CLOSE

XX/XX
TO
XX/XX

PCMS #4
(During closure)

EXITS
6A & 6B
CLOSED

USE
EXIT 7

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION
2361501
WIN
023615.01
BRIDGE PLANS

PROJ. MANAGER	BY	DATE	SIGNATURE	P.E. NUMBER	DATE
M. Kersting	AM	12/19			
AUS	JRC	12/19			
DESIGN DETAILED					
CHECKED/REVIEWED					
DESIGN DETAILED					
REVISIONS 1					
REVISIONS 2					
REVISIONS 3					
REVISIONS 4					
FIELD CHANGES					

INTERSTATE 295 SOUTHBOUND
S. PORTLAND TO PORTLAND
CUMBERLAND COUNTY
FOREST AVENUE ON & OFF RAMP
DETOUR PLAN

SHEET NUMBER
47
OF 52

NOTE:
1. Type III barricades shall extend across the entire pavement width and spaced at a maximum of 6'.

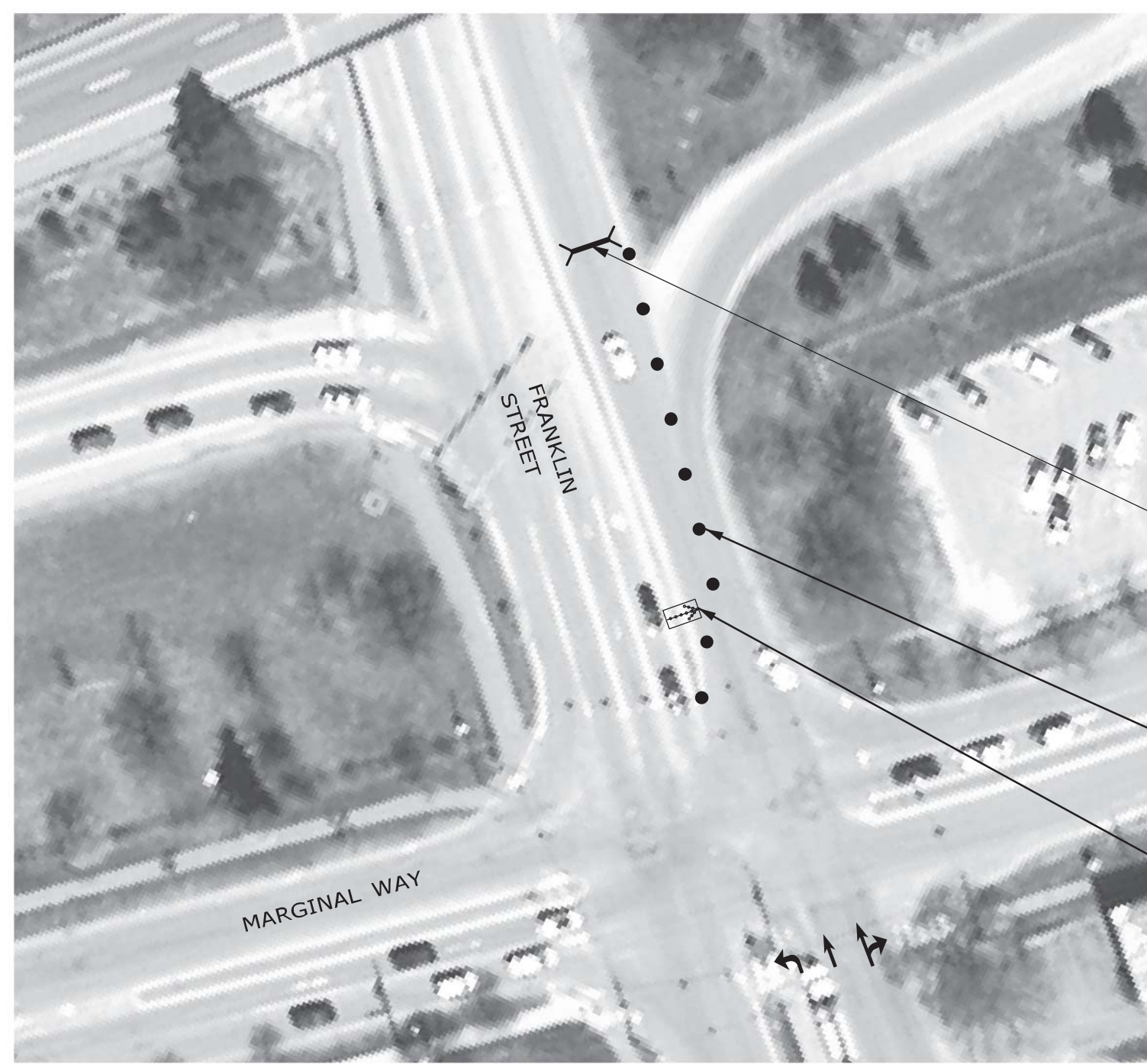
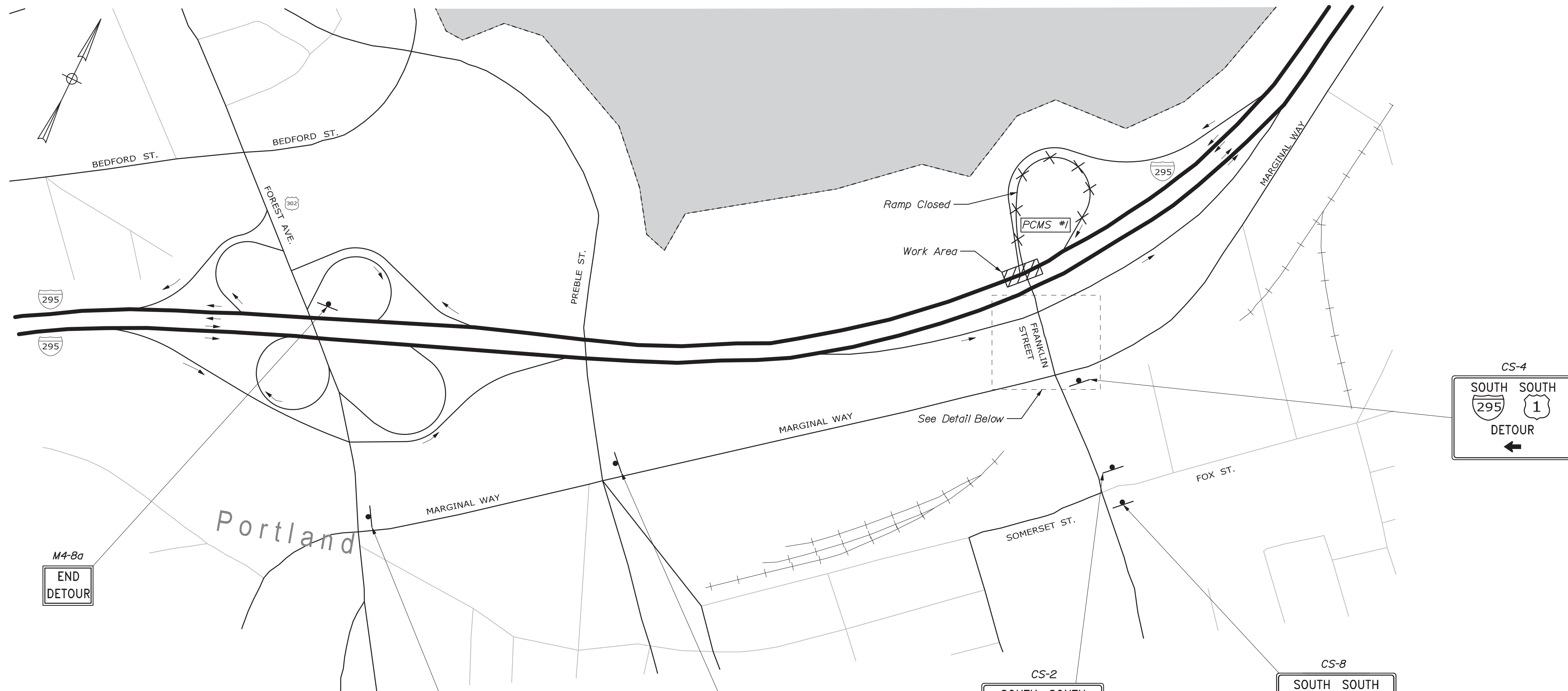
HNTB
NOT TO SCALE

Date: 2/19/2020

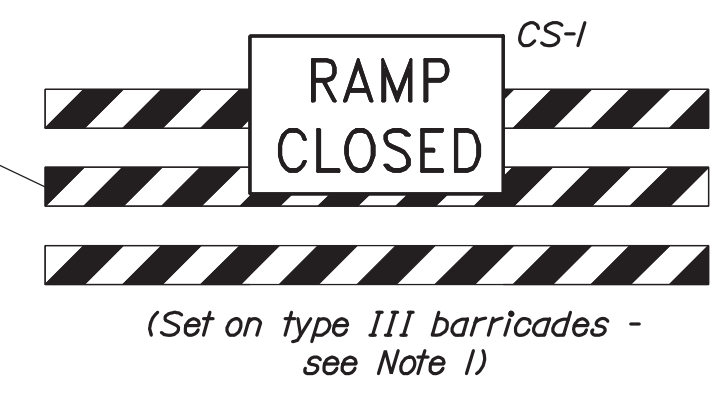
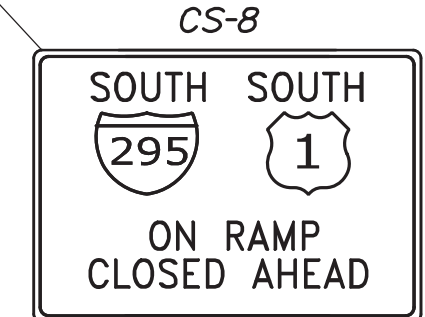
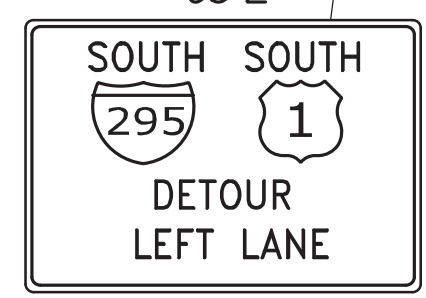
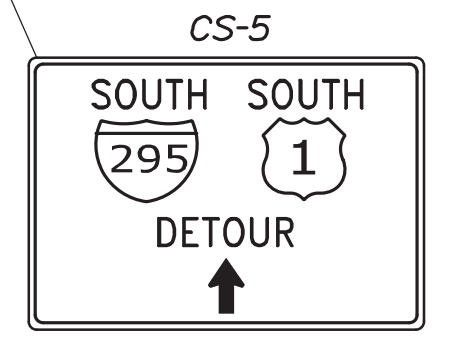
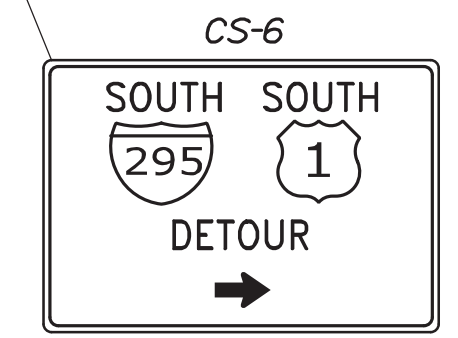
Username:

Division:

Filename: 048_FranklinSt_RampClosure.dgn



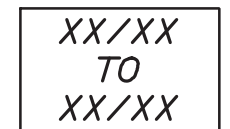
DETAIL



Drums spaced at 40' O.C. to close left lane

Flashing Arrow

PCMS #1
(1 Week prior to closure)



NOTE:
 1. Type III barricades shall extend across the entire pavement width and spaced at a maximum of 6'.

STATE OF MAINE
 DEPARTMENT OF TRANSPORTATION
 2361501
 WIN 023615.01
 BRIDGE PLANS

PROJ. MANAGER	M. Kerstner/gen	BY	DATE
DESIGN DETAILED	AJS	ALB	12/19
CHECKED/REVIEWED	JRH	JRC	12/19
DESIGN DETAILED	-	-	-
REVISIONS	1	-	-
REVISIONS	2	-	-
REVISIONS	3	-	-
REVISIONS	4	-	-
FIELD CHANGES	-	-	-

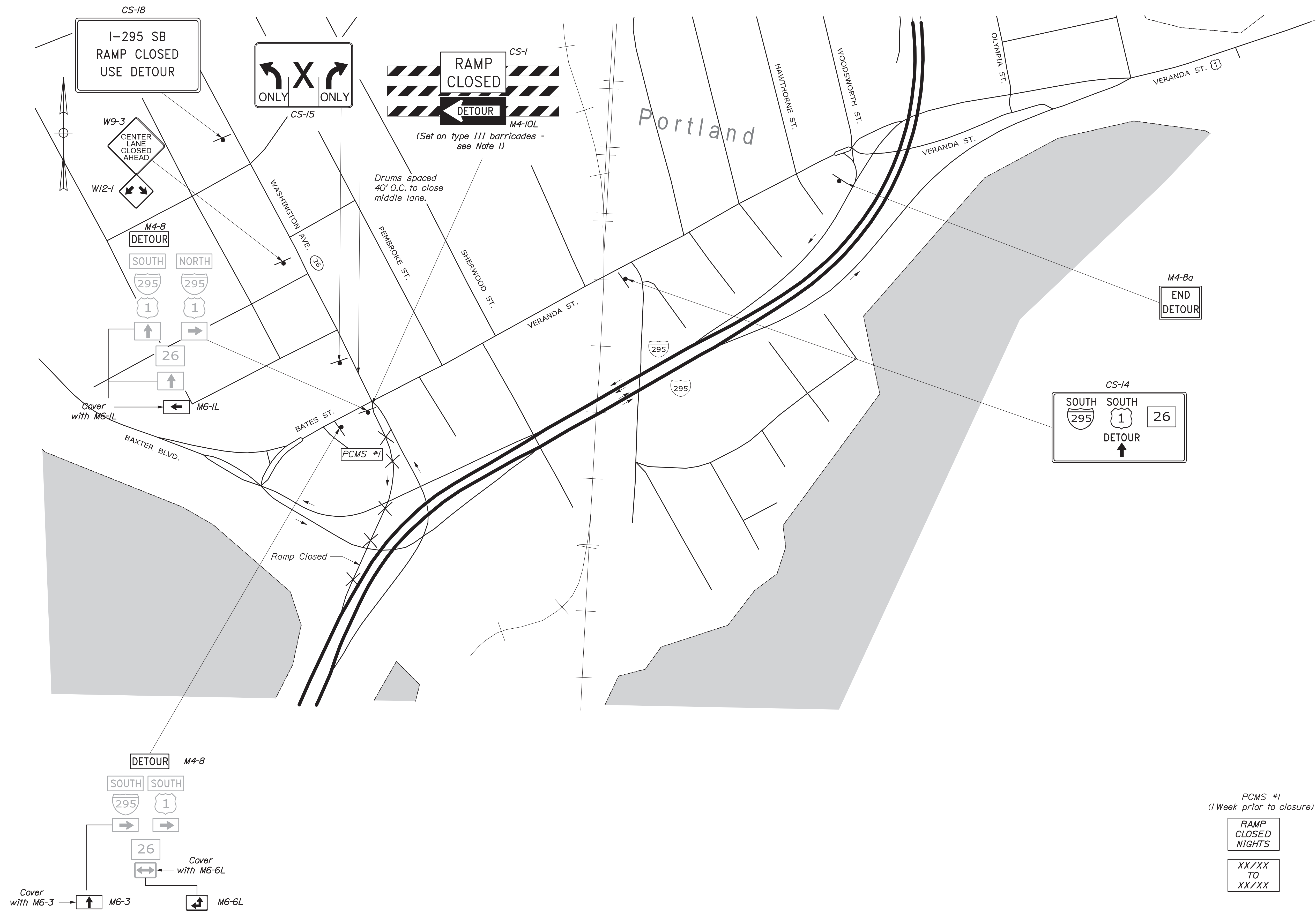
INTERSTATE 295 SOUTHBOUND
 S. PORTLAND TO PORTLAND
 CUMBERLAND COUNTY
 FRANKLIN STREET ON RAMP
 DETOUR PLAN

SHEET NUMBER
48
 OF 52

Date: 2/19/2020

Username:

Filename: 049_WashingtonAve_OnRamp_Closure.dgn Division:



NOTE:

1. Type III barricades shall be placed at the entrance of the ramp and shall extend across the entire pavement width and spaced at a maximum of 6'.
2. This detour is to be used during Tukey's Bridge work.

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION
2361501
WIN 023615.01
BRIDGE NO. Varies BRIDGE PLANS

PROJ. MANAGER	M. Kersting	BY	DATE
DESIGN/DETAILED	AJS	AJS	12/19
CHECKED/REVIEWED	JRH	JRC	12/19
DESIGN/DETAILED			
REVISIONS			
REVISIONS			
REVISIONS			
REVISIONS			
FIELD CHANGES			

SIGNATURE	P.E. NUMBER	DATE

INTERSTATE 295 SOUTHBOUND
S. PORTLAND TO PORTLAND
CUMBERLAND COUNTY
WASHINGTON AVENUE SOUTHBOUND
ON RAMP DETOUR PLAN

SHEET NUMBER

49

OF 52



WIDE LOADS OVER 10'-0"
PROHIBITED
I-295 SB PORTLAND

CS-17

WIDE LOADS OVER 10'-0"
PROHIBITED
I-295 SB PORTLAND


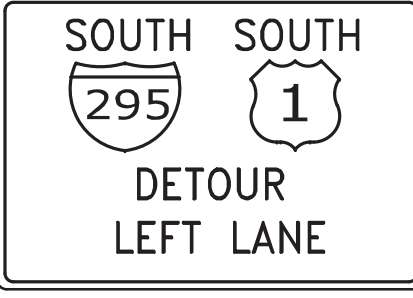
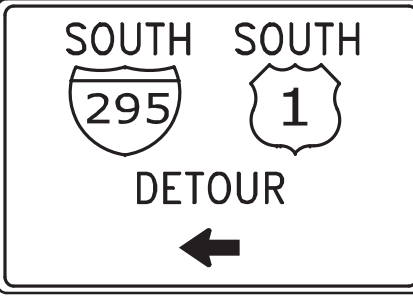
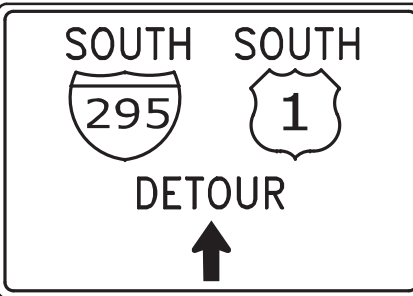
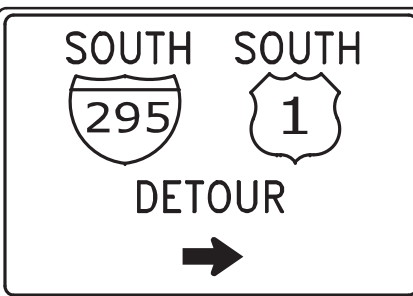
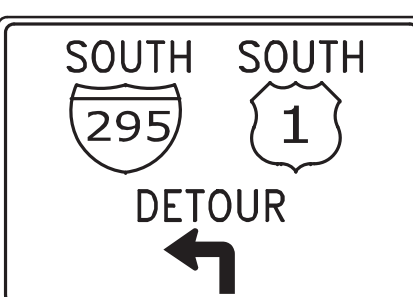
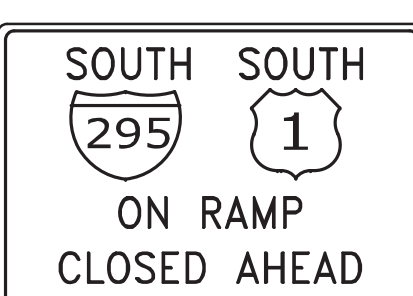
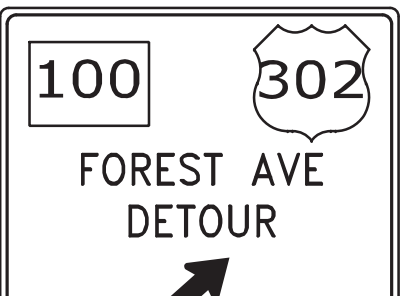
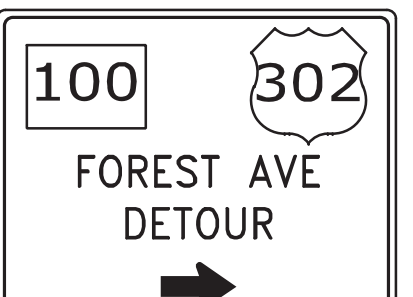
VMS #1

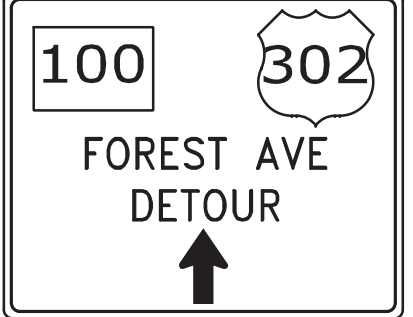
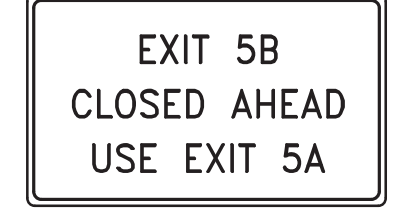
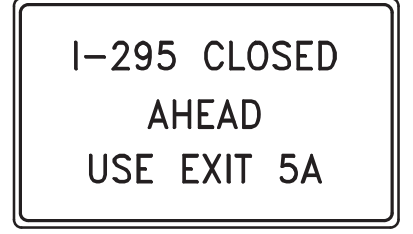
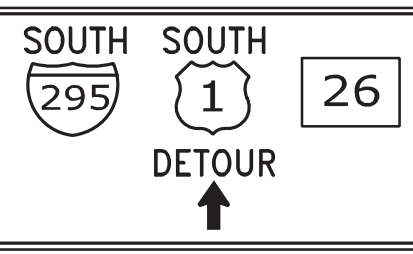
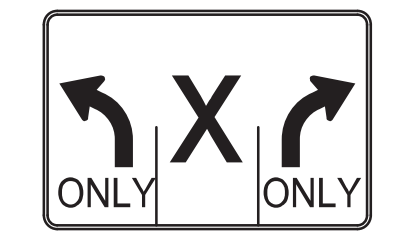
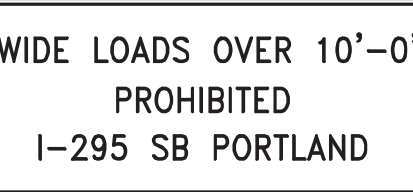
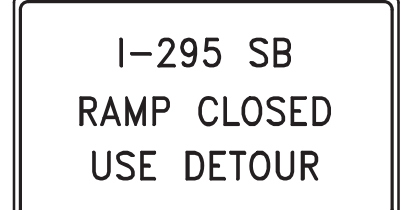
- NOTES:**
1. All signs on this sheet shall be placed to not conflict with signing shown on Detour Plans.
 2. Signs shall be placed prior to work starting and remain in place for the duration of the contract.
 3. VMS #1 shall utilize existing VMS at mile 11.8.

STATE OF MAINE DEPARTMENT OF TRANSPORTATION		2361501	
INTERSTATE 295 SOUTHBOUND S. PORTLAND TO PORTLAND CUMBERLAND COUNTY		WIN 023615.01	
LOCAL SIGNING PLAN		BRIDGE PLANS	
PROJ. MANAGER	M. Kerstner/gen	BY	DATE
DESIGN DETAILED	AJS	AJS	12/19
CHECKED/REVIEWED	JRH	JRC	12/19
DESIGNS DETAILED	-	-	-
REVISIONS 1	-	-	-
REVISIONS 2	-	-	-
REVISIONS 3	-	-	-
REVISIONS 4	-	-	-
FIELD CHANGES		SIGNATURE	
		P.E. NUMBER	
		DATE	
SHEET NUMBER		50	
		OF 52	



CONSTRUCTION SIGN SUMMARY

IDENTIFICATION NUMBER	SIZE OF SIGN		TEXT	TEXT DIMENSIONS (INCHES)			NUMBER OF SIGNS REQUIRED	COLOR		BORDER RADIUS	AREA IN SQUARE FEET
	WIDTH	HEIGHT		LETTER HEIGHT	VERTICAL SPACING	ARROW RTE. MKR.		BACK-GROUND	LEGEND BORDER		
CS-1	48"	30"		SEE SPECIAL PROVISION 652 FOR TEXT DIMENSIONS			8	WHITE	BLACK		10.00 (80)
CS-2	72"	60"					4	ORANGE	BLACK		30.00 (120)
CS-4	72"	60"					3	ORANGE	BLACK		30.00 (90)
CS-5	72"	60"					3	ORANGE	BLACK		30.00 (90)
CS-6	72"	60"					1	ORANGE	BLACK		30.00 (30)
CS-7	72"	60"					1	ORANGE	BLACK		30.00 (30)
CS-8	72"	60"					1	ORANGE	BLACK		30.00 (30)
CS-9	72"	66"					1	ORANGE	BLACK		33.00 (33)
CS-10	72"	66"					1	ORANGE	BLACK		33.00 (33)

IDENTIFICATION NUMBER	SIZE OF SIGN		TEXT	TEXT DIMENSIONS (INCHES)			NUMBER OF SIGNS REQUIRED	COLOR		BORDER RADIUS	AREA IN SQUARE FEET
	WIDTH	HEIGHT		LETTER HEIGHT	VERTICAL SPACING	ARROW RTE. MKR.		BACK-GROUND	LEGEND BORDER		
CS-11	72"	66"		SEE SPECIAL PROVISION 652 FOR TEXT DIMENSIONS			1	ORANGE	BLACK		30.00 (30)
CS-12	96"	48"					1	ORANGE	BLACK		32.00 (32)
CS-13	90"	48"					1	ORANGE	BLACK		30.00 (30)
CS-14	96"	66"					1	ORANGE	BLACK		44.00 (44)
CS-15 (MODIFIED R3-8a)	48"	30"					1	ORANGE	BLACK		10.00 (10)
CS-17	108"	36"					9	WHITE	BLACK		27.00 (243)
CS-18	90"	48"					3	ORANGE	BLACK		30.00 (90)

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION
2361501
WIN 023615.01
BRIDGE NO. VARIES
BRIDGE PLANS

INTERSTATE 295 SOUTHBOUND
S. PORTLAND TO PORTLAND
CUMBERLAND COUNTY

PROJ. MANAGER	M. Kershner	DATE	12/19
CHECKED	AJS	DATE	12/19
DESIGNED	JRH	SIGNATURE	
DESIGNED	JRH	P.E. NUMBER	
REVISIONS 1		DATE	
REVISIONS 2			
REVISIONS 3			
REVISIONS 4			
FIELD CHANGES			

SIGN SUMMARY

SHEET NUMBER

52

OF 52



Date: 2/19/2020

Username:

Division:

Filename: 052_Sign Summary 02.dgn