

STATE OF MAINE DEPARTMENT OF TRANSPORTATION



WATERVILLE AND BENTON KENNEBEC COUNTY INTERSTATE 95 NORTHBOUND BRIDGE PRESERVATION PROJECT FEDERAL PROJECT NO. 2506100 PROJECT LENGTH: 3.86 Miles BRIDGE NUMBERS: 5816, 5817, 5818, 6000, 5993

LIST OF DRAWINGS

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Estimated Quantities & General Construction Notes	3
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Bridge Plans	5-10
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MAINTENANCE OF TRAFFIC

Utilize crossovers for Bridges 5816 and 5817. Staged construction with lane closures for Bridge 6000 and 5993. All joint work may be completed in nighttime lane closures. See Special Provisions Section 652.

<u>PROJECT LOCATION</u>	I-95 Between Waterville and Benton, Maine
<u>PROGRAM AREA</u>	Bridge Program
<u>OUTLINE OF WORK</u>	Joint Modifications and Wearing Surface Replacement

MATERIALS

Concrete
Joint Headers PPC

BASIC DESIGN STRESSES

Concrete
PPC $f_c = 3,000$ psi

TRAFFIC DATA

Current (2018) AADT	2410
Future (2032) AADT	2597
DHV - % of AADT	9%
Design Hour Volume	217
Heavy Trucks (% of AADT)	17%
Heavy Trucks (% of DHV)	16%
Directional Distribution (% of DHV)	100%
Design Speed (mph)	75

WIN 25061.00

2506100

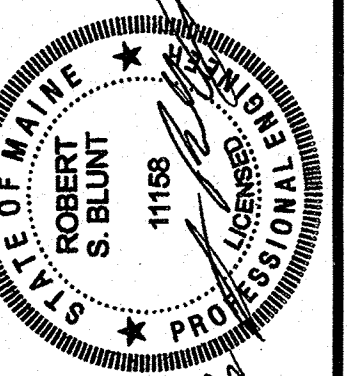
INTERSTATE 95 NORTHBOUND
BRIDGE JOINT REHABILITATIONS
WATERVILLE TO BENTON

TITLE SHEET

SHEET NUMBER

1

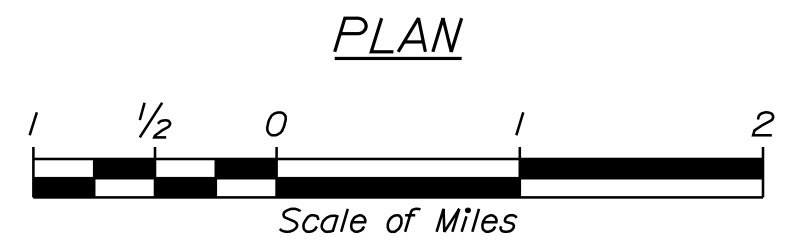
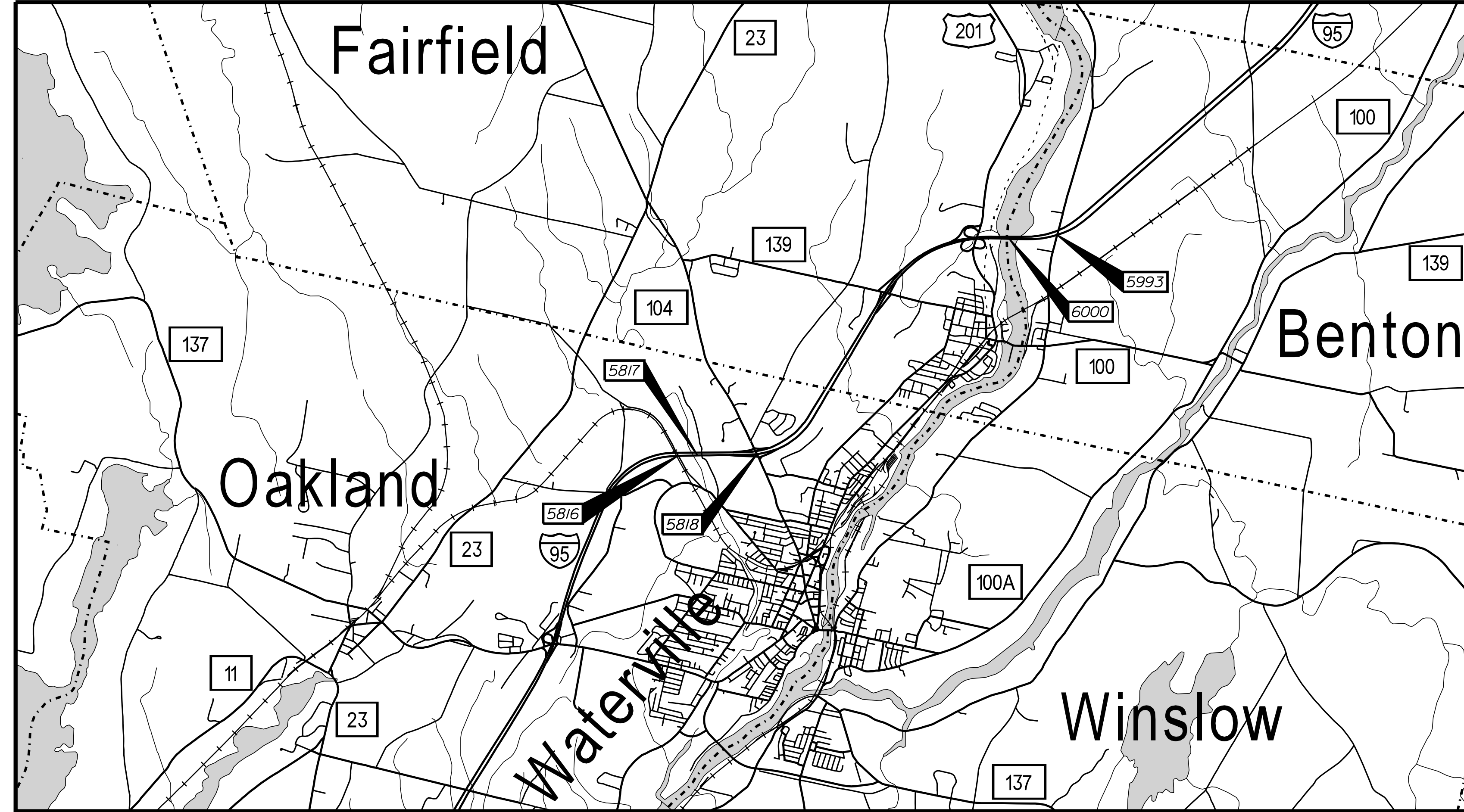
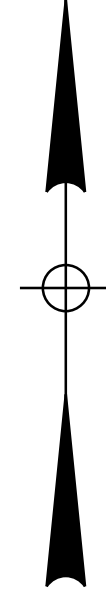
OF 27



SIGNATURE R.S. Blunt	DATE 2/21/2022
P.E. NUMBER 11168	DATE 12-13-22

APPROVED <i>[Signature]</i>	DATE 12-13-22
COMMISSIONER <i>[Signature]</i>	DATE 12-13-22
CHIEF ENGINEER <i>[Signature]</i>	DATE 12-13-22

LOCATION MAP



STATE OF MAINE DEPARTMENT OF TRANSPORTATION		2506100	
As Noted		WIN	25061.00
BRIDGE PLANS			
INTERSTATE 95 NORTHBOUND BRIDGE JOINT REHABILITATIONS WATERVILLE TO BENTON		BRIDGE LOCATION MAP	
SHEET NUMBER		2	
OF 27			
PROJ. MGR. Travis Hemel, P.E.	BY	DATE	SIGNATURE
CHECKED-REVIEWED E.L. Walton	R.S. Burt	Nov. 2022	11/58
DESIGN-REVIEWED J. Pelletier		Nov. 2022	
DESIGN-DETAILED			P.E. NUMBER
REVISIONS 1			12/2/2022
REVISIONS 2			DATE
REVISIONS 3			
REVISIONS 4			
FIELD CHANGES			

Date: 12/15/2022

Username: David.Shaw

Division: BRIDGE

Filename: ... \MSTA\003_NB-Estimate.dgn

ESTIMATED I-95 NORTHBOUND BRIDGE QUANTITIES							
ITEM NO.	DESCRIPTION	QUANTITY	QUANTITY	QUANTITY	QUANTITY	QUANTITY	TOTAL UNIT
		Bridge No. 5816	Bridge No. 5817	Bridge No. 5818	Bridge No. 6000	Bridge No. 5993	
202.127	Removing of Existing Bituminous Pavement (5400 SY)	0.18	0.69			0.13	1 LS
202.202	Removing Pavement Surface				3750		3750 SY
202.205	Rumble Strips - Shoulder	910	3,640				4550 LF
202.207	Rumble Strips, Fill	910	3,640				4550 LF
403.2081	Hot Mix Asphalt, 12.5 mm Nominal Maximum Size (Polymer Modified)	79	308		306	56	750 TON
403.210	Hot Mix Asphalt, 9.5 mm Nominal Maximum Size	41.50	41.50				83 TON
403.211	Hot Mix Asphalt, 9.5 mm Nominal Maximum Size (Shimming)	10	10		10	10	40 TON
403.2131	Hot Mix Asphalt, 12.5 mm (Base and Intermediate Base Course, Polymer Modified)	80	310			60	450 TON
409.15	Bituminous Tack Coat, Applied	60	225		220	45	550 GAL
461.131	Temporary Pavement	22	22				44 TON
508.14	High Performance Waterproofing Membrane (5400 SY)	0.18	0.69			0.13	1 LS
510.301	Expressway Median Crossover	0.50	0.50				1 LS
518.51	Repair of Upward Facing Surfaces - Below Reinforcing Steel < 8 in	100	200			100	400 SF
519.60	Expansion Device - Asphaltic Plug Joint				43		43 LF
520.2421	Bridge Joint Modification Type 2A	2	2	2	1	2	9 EA
520.2422	Bridge Joint Modification Type 2B		2		1		3 EA
526.301	Portable Concrete Barrier, Type I (5300 LF)	0.5	0.5				1 LS
527.33	Truck Mounted Attenuator	1	1				2 EA
527.34	Work Zone Crash Cushion	2	1				3 UN
619.14	Erosion Control Mix	2	2	2	2	2	10 CY
627.51	6 Inch Temporary Pavement Tape, Yellow or White	410	1640				2050 LF
627.744	6' White or Yellow Painted Pavement Marking Line	2740	10900		4210	2650	20500 LF
627.77	Removing Existing Pavement Marking	2720	10880				13600 SF
627.781	Temporary 6' Painted Pavement Marking Line, W or Y	2480	9920				12400 LF
629.05	Hand Labor, Straight Time	2	2	2	2	2	10 HR
631.112	Welding Machine (including operator)	2	2	2	2	2	10 HR
631.12	All Purpose Excavator (including operator)	2	2	2	2	2	10 HR
631.133	Skid Steer (including operator)	2	2	2	2	2	10 HR
631.165	Infrared Asphalt Heater (including operator)	8	16				24 HR
631.172	Truck-Large (including operator)	2	2	2	2	2	10 HR
639.19	Field Office Type B	0.20	0.20	0.20	0.20	0.20	1 EA
652.30	Flashing Arrow Board	0.40	0.40	0.40	0.40	0.40	2 EA
652.312	Type III Barricades	2	8		2		12 EA
652.33	Drum	27	106	22.33	22.33	22.33	200 EA
652.34	Cone			25	50	25	100 EA
652.35	Construction Signs	210	810	110	110	110	1350 SF
652.361	Maintenance of Traffic Control Devices	0.30	0.30	0.10	0.20	0.10	1 LS
652.381	Traffic Officer	10	10				20 HR
652.41	Portable-Changeable Message Sign	0.8	0.8	0.8	0.8	0.8	4 EA
652.45	Automated Trailer Mounted Speed Limit Sign	0.70	0.70	0.20	0.20	0.20	2 EA
652.46	Sequential Flashing Lights	15.00	15.00				30 EA
652.47	Temporary Rumble Strip	3.00	8.00				11 GP
656.75	Temporary Soil Erosion and Water Pollution Control	0.20	0.20	0.20	0.20	0.20	1 LS
659.10	Mobilization	0.20	0.20	0.20	0.20	0.20	1 LS

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

GENERAL CONSTRUCTION NOTES

- 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.
- All dimensions, angles, and stationing shown on existing plans are taken from as-built construction drawings from 1958 through 2020 and are not guaranteed to be correct. All information based on or relating to the existing bridges shall be verified in the field by the Contractor.
- 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:
 - If a Lump Sum pay item is eliminated, the requirements of the Standard Specifications Section 109.2, Elimination of Items, will take precedence.
 - If other Contract Documents specifically allow a change in payment for a Lump Sum pay item, those requirements will be followed.
 - 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.
- Reinforcing steel shall have a minimum concrete cover of 2" unless otherwise noted.
- 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.
- Any damage to existing concrete, reinforcing steel, joint steel, or joint seals resulting from the work performed shall be repaired or replaced by a method approved by the Resident at no cost to the Department.
- New seals shall be installed full length after all other joint work is complete.
- 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, steel joint armor, 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.
- If the depth of deteriorated concrete is at/or below the reinforcing steel, then remove the concrete to a minimum depth of 1 inch below the reinforcing bars.

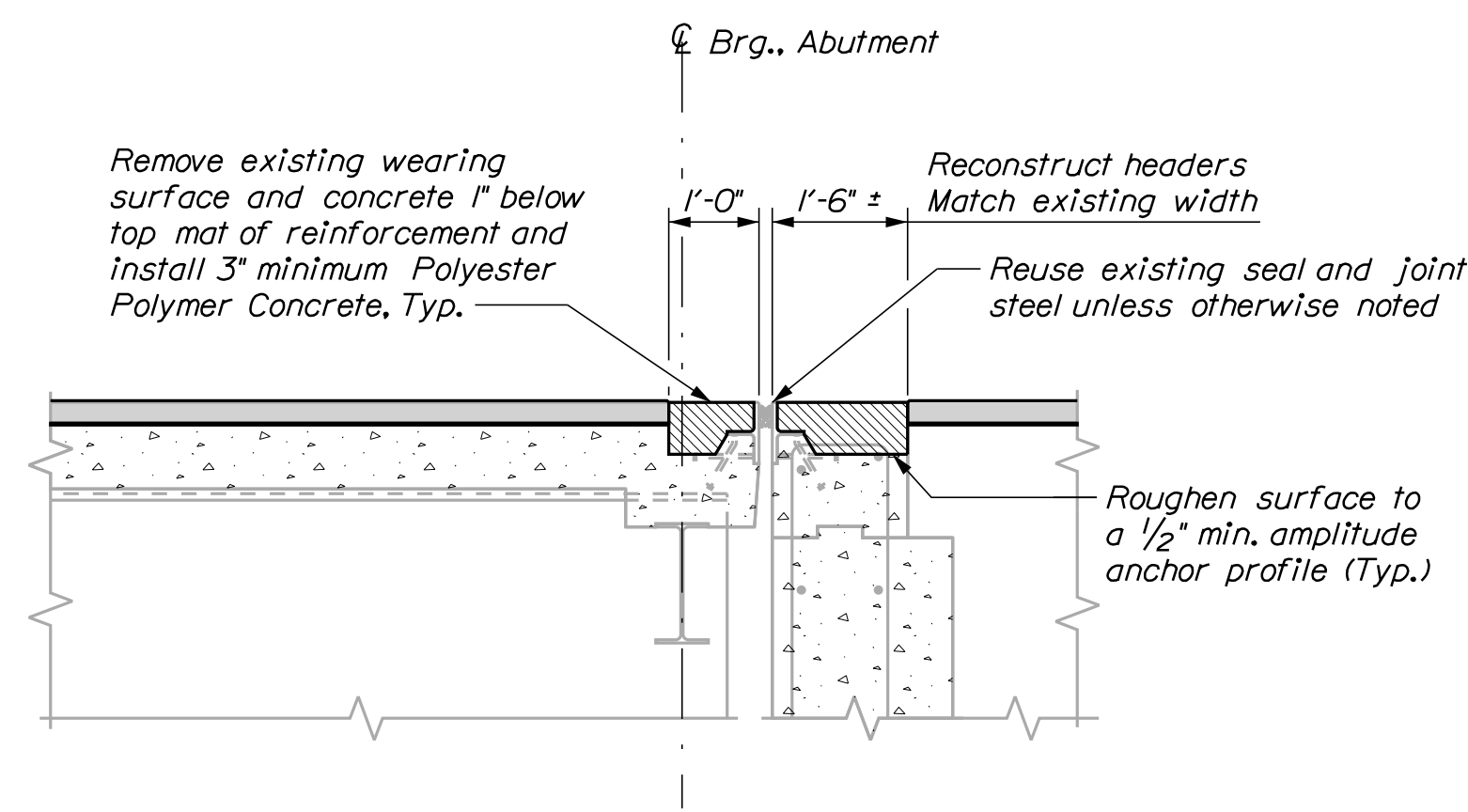
STATE OF MAINE DEPARTMENT OF TRANSPORTATION 2506100 WIN 25061.00 As Noted BRIDGE PLANS	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 50%; text-align: center;">SIGNATURE</td> <td style="width: 50%; text-align: center;">DATE</td> </tr> <tr> <td style="text-align: center;">11158</td> <td style="text-align: center;">12/2/2022</td> </tr> <tr> <td style="text-align: center;">P.E. NUMBER</td> <td style="text-align: center;">DATE</td> </tr> </table>	SIGNATURE	DATE	11158	12/2/2022	P.E. NUMBER	DATE												
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11158	12/2/2022																		
P.E. NUMBER	DATE																		
INTERSTATE 95 NORTHBOUND BRIDGE JOINT REHABILITATIONS WATERVILLE TO BENTON ESTIMATED QUANTITIES AND GENERAL CONSTRUCTION NOTES	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 50%;">PROJ. MGR. Travis Hemele, P.E.</td> <td style="width: 50%;">DATE</td> </tr> <tr> <td style="width: 50%;">DESIGN-DETAILED E.L. Walton</td> <td style="width: 50%;">Nov. 2022</td> </tr> <tr> <td style="width: 50%;">CHECKED-REVIEWED J. Pelletier</td> <td style="width: 50%;">Nov. 2022</td> </tr> <tr> <td style="width: 50%;">DESIGNS-DETAILED</td> <td style="width: 50%;"></td> </tr> <tr> <td style="width: 50%;">REVISIONS 1</td> <td style="width: 50%;"></td> </tr> <tr> <td style="width: 50%;">REVISIONS 2</td> <td style="width: 50%;"></td> </tr> <tr> <td style="width: 50%;">REVISIONS 3</td> <td style="width: 50%;"></td> </tr> <tr> <td style="width: 50%;">REVISIONS 4</td> <td style="width: 50%;"></td> </tr> <tr> <td style="width: 50%;">FIELD CHANGES</td> <td style="width: 50%;"></td> </tr> </table>	PROJ. MGR. Travis Hemele, P.E.	DATE	DESIGN-DETAILED E.L. Walton	Nov. 2022	CHECKED-REVIEWED J. Pelletier	Nov. 2022	DESIGNS-DETAILED		REVISIONS 1		REVISIONS 2		REVISIONS 3		REVISIONS 4		FIELD CHANGES	
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SHEET NUMBER 3 OF 27																			

Date: 12/15/2022

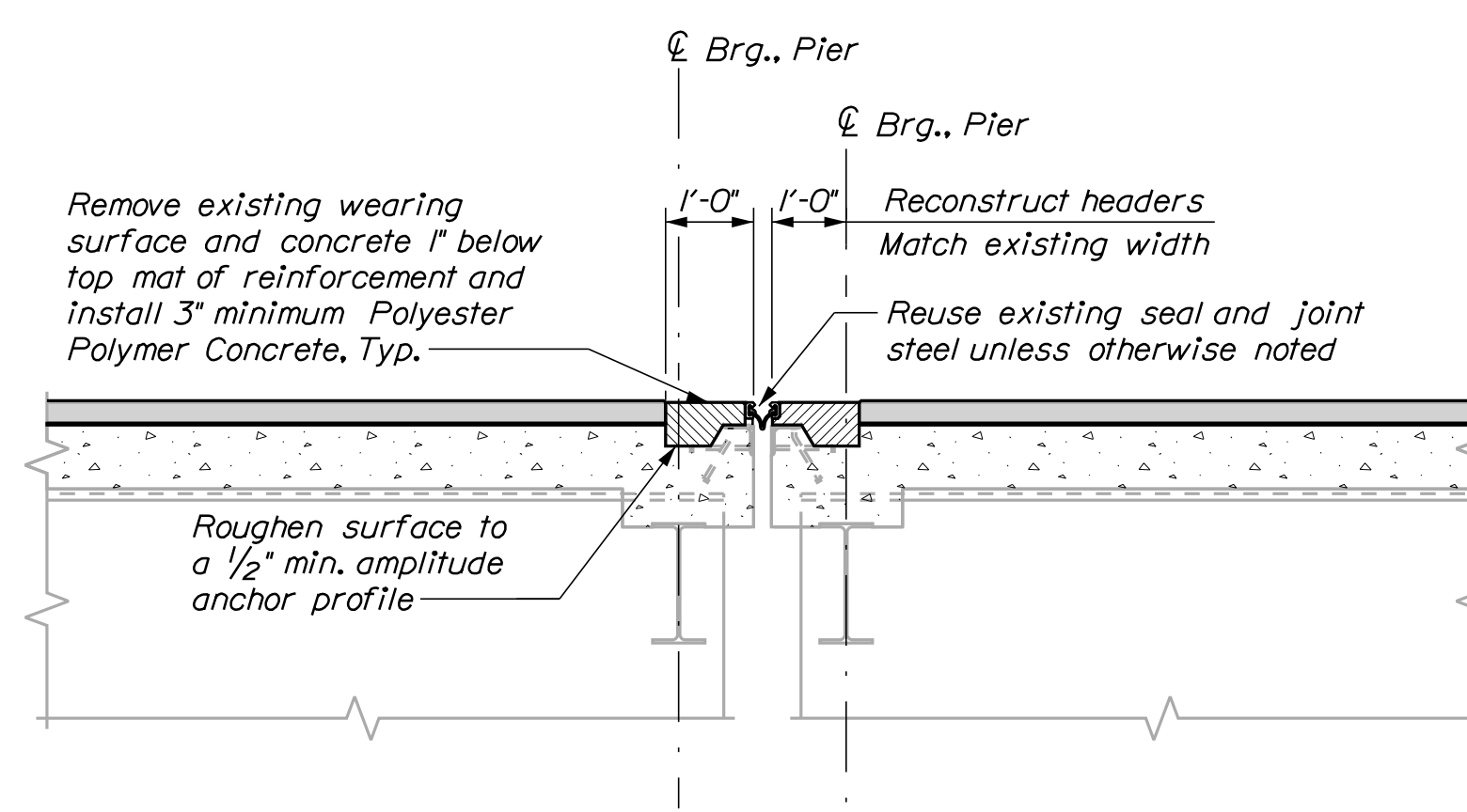
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Division: BRIDGE

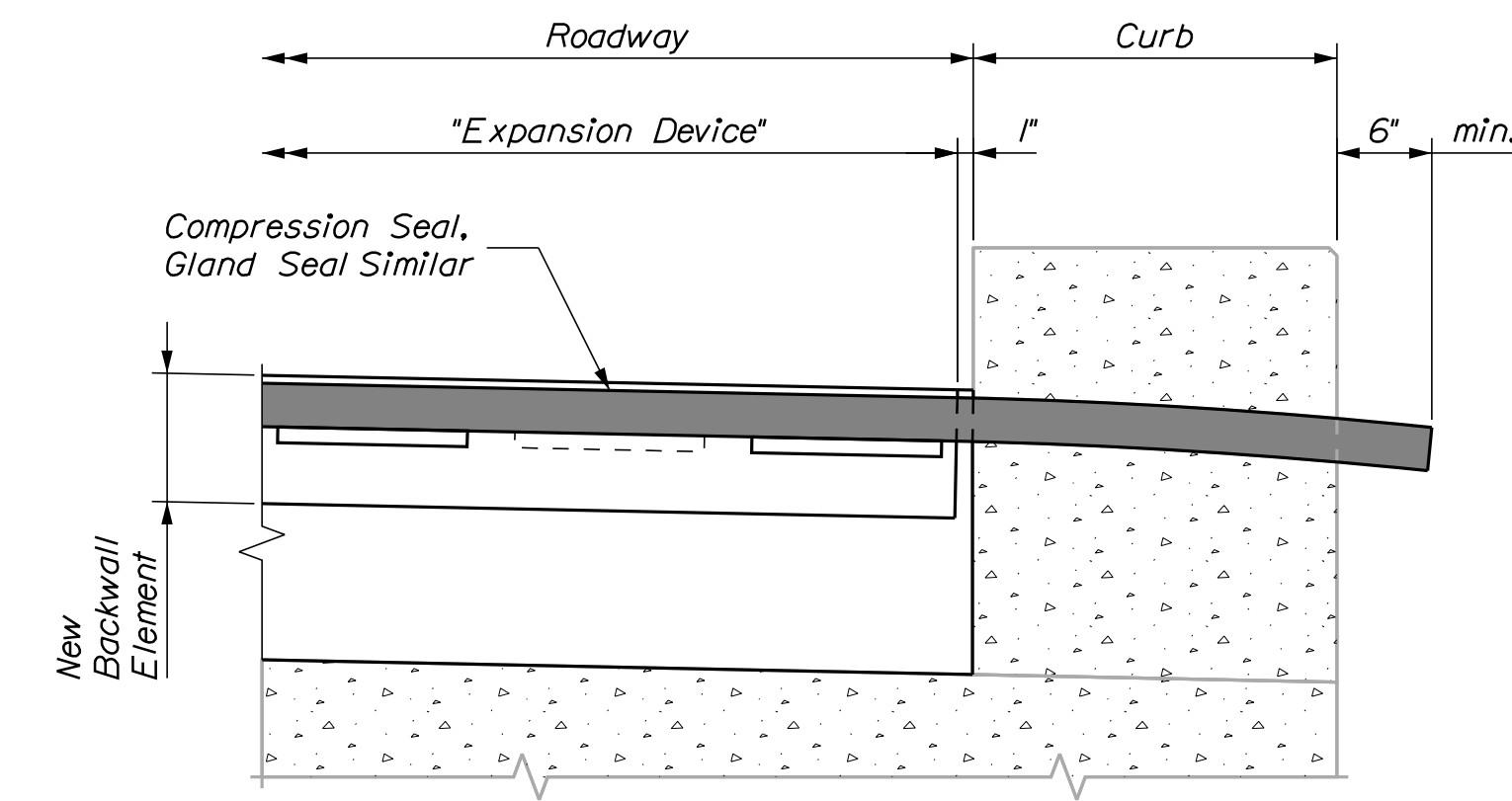
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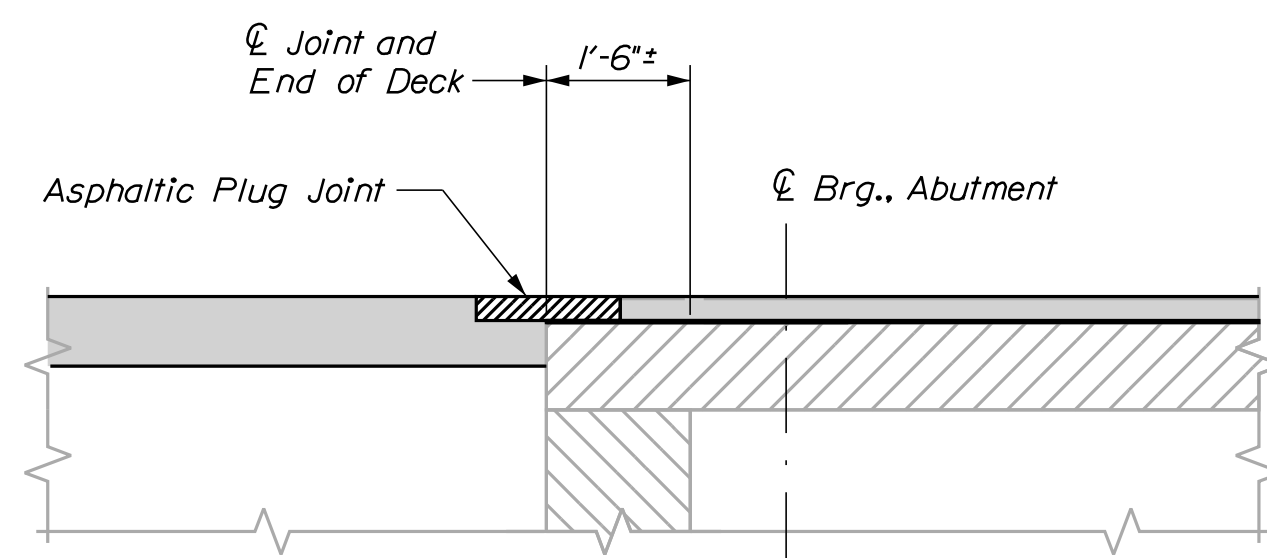
BRIDGE JOINT MODIFICATION TYPE 2A
(Compression seal shown, existing joint may be finger joint or gland seal)



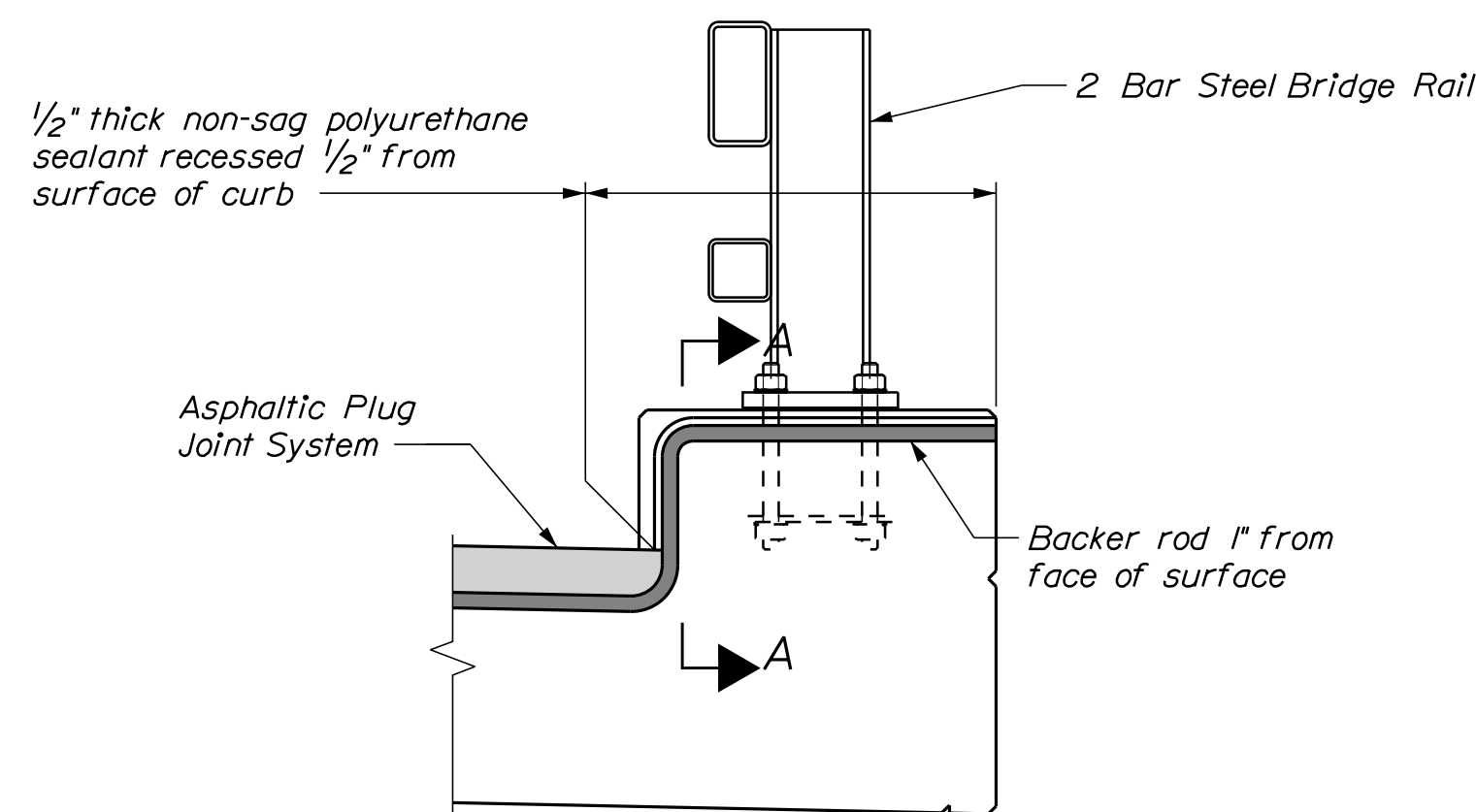
BRIDGE JOINT MODIFICATION TYPE 2B
(Gland seal shown, existing joint may be finger joint, compression seal, or modular joint)



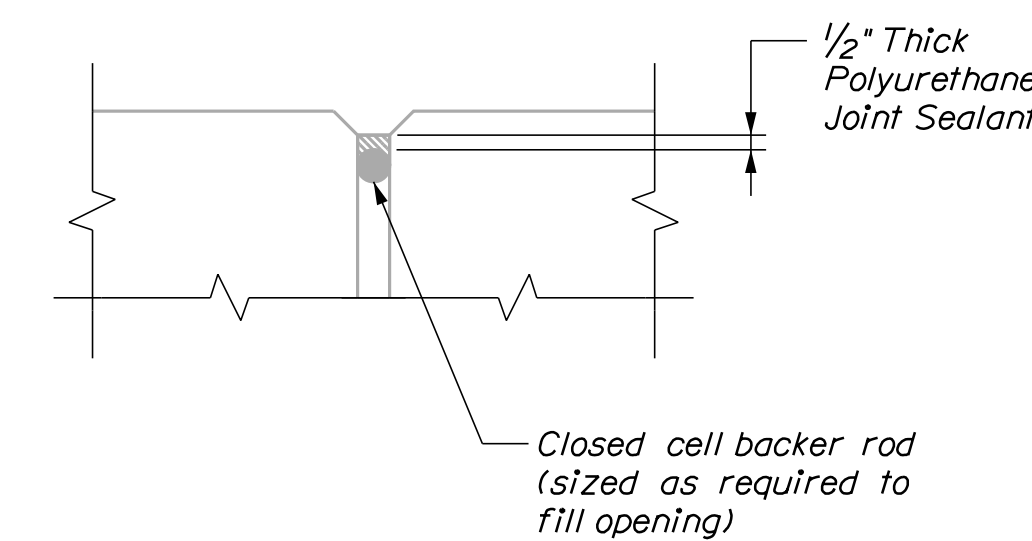
BRIDGE JOINT DETAIL AT CURB
Scale: 1" = 1'-0"



EXPANSION DEVICE - ASPHALTIC PLUG JOINT



ASPHALTIC PLUG JOINT TREATMENT AT BRIDGE CURB



SECTION A-A

BRIDGE JOINT MODIFICATION NOTES

1. Refer to Standard Details Sections 502 and 520 for details and information not shown.
2. All concrete surfaces where new concrete is to be placed shall have a 1/2-in. minimum anchor profile or roughened surface unless noted otherwise.
3. The Contractor shall be responsible for selecting the appropriate seal from the MaineDOT "Approved Products List" based on the movement rating and skew. The Contractor shall submit to the Resident the selected seal for review at least two weeks prior to installation.

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION
2506100
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25061.00
As Noted
BRIDGE PLANS

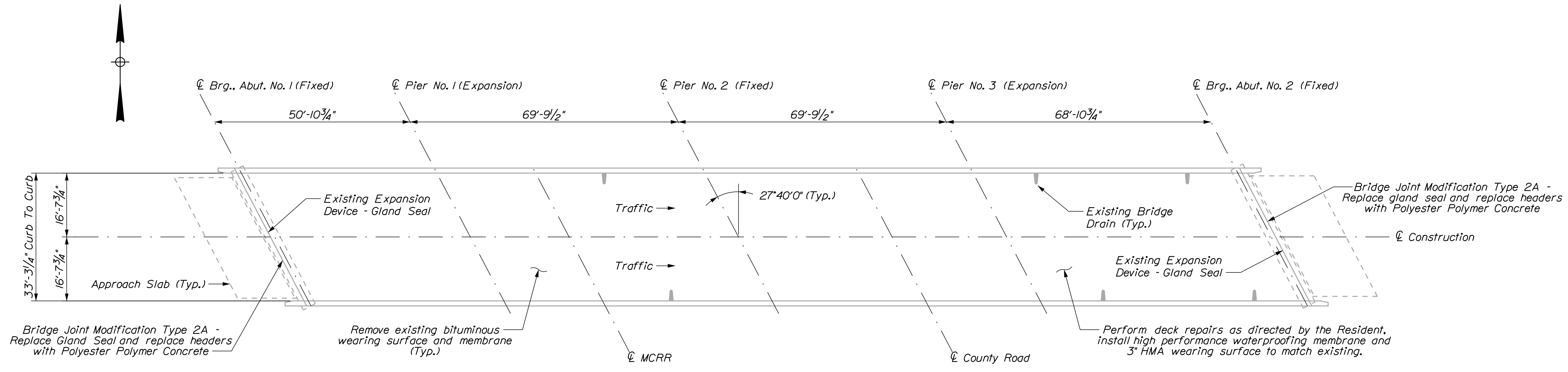
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DESIGN DETAILED	E.L. Walton	Nov. 2022	SIGNATURE
CHECKED/REVIEWED	J. Pelletier	Nov. 2022	11158
DESIGN DETAILED			P.E. NUMBER
REVISIONS 1			12/2/2022
REVISIONS 2			DATE
REVISIONS 3			
REVISIONS 4			
FIELD CHANGES			

INTERSTATE 95 NORTHBOUND
BRIDGE JOINT REHABILITATIONS
WATERVILLE TO BENTON
TYPICAL DETAILS

SHEET NUMBER

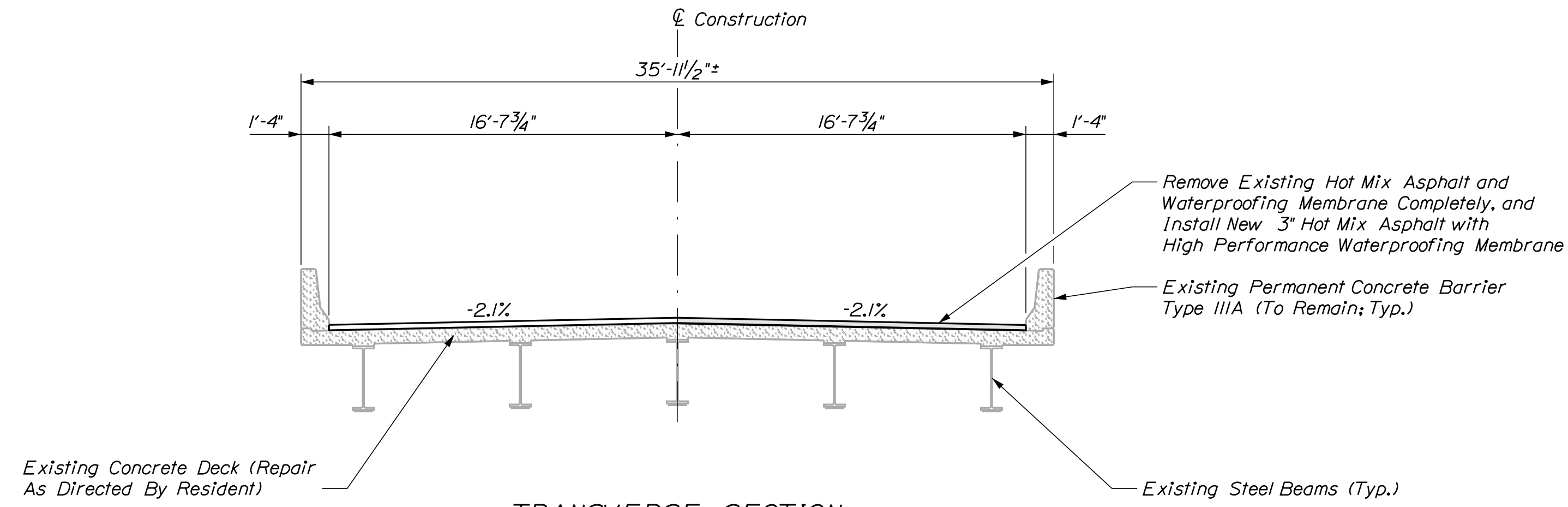
4

OF 27



INTERSTATE 95 NORTHBOUND OVER COUNTY ROAD AND MCRR
Waterville - County Road Bridge, Bridge No. 5816

PLAN



TRANSVERSE SECTION

DESIGN DETAILED	T. Hamel	DATE	
CHECKED/REVIEWED	E.L. Walton	BY	R. Mayer
DESIGNS DETAILED	J. Pelletier	DATE	Nov. 2022
REVISIONS 1			
REVISIONS 2			
REVISIONS 3			
REVISIONS 4			
FIELD CHANGES			

SIGNATURE	P.E. NUMBER	DATE

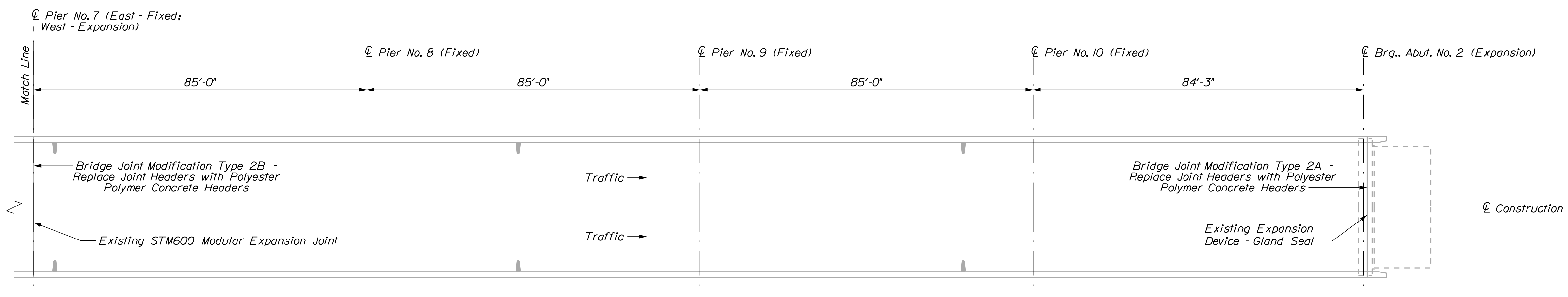
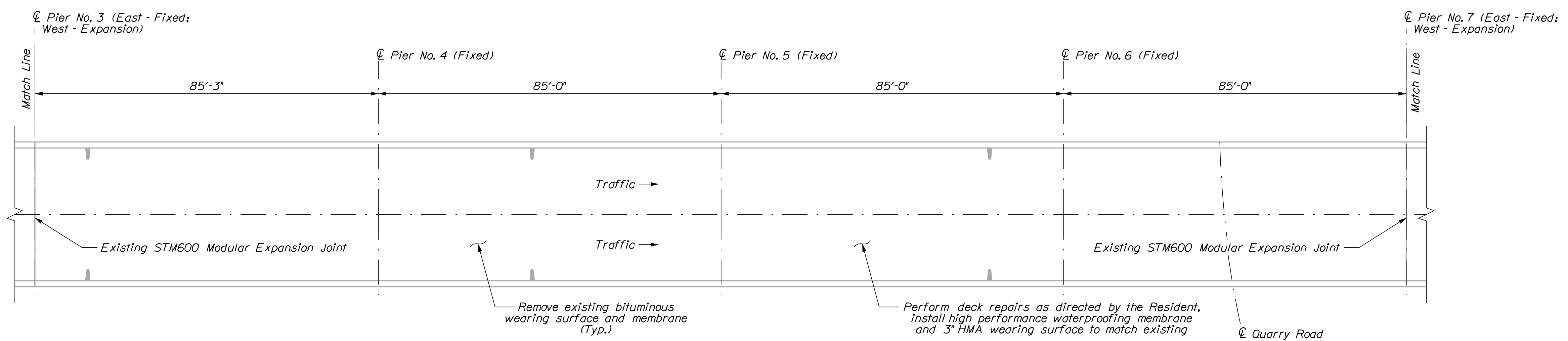
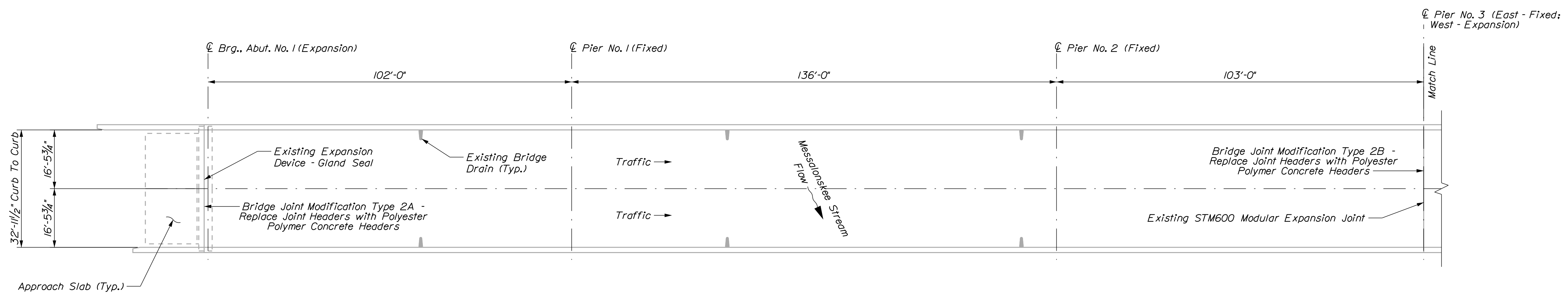
INTERSTATE 95 NORTHBOUND
BRIDGE JOINT REHABILITATIONS
WATERVILLE TO BENTON
BRIDGE PLANS
(1 OF 6)

Date: 12/11/2022

Username: David.Shaw

Division: BRIDGE

Filename: ... \006_NB_Messalonskee Stream.dgn



**INTERSTATE 95 NORTHBOUND OVER MESSALONSKEE
STREAM AND QUARRY ROAD**
Waterville - Messalonskee Stream Bridge, Bridge No. 5817

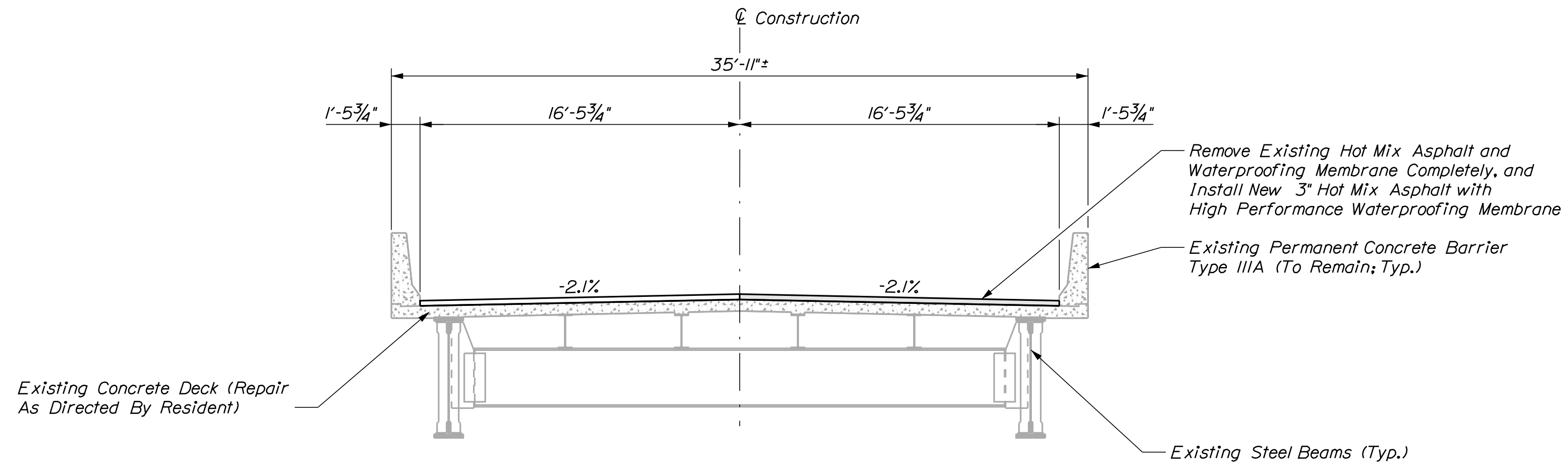
PLAN

STATE OF MAINE	BRIDGE NO. 5817	BRIDGE PLANS
DEPARTMENT OF TRANSPORTATION	WIN	25061.00
	2506100	

PROJ. MANAGER	T. HAMEL	BY	R. MOYER	DATE	Nov. 2022
DESIGN DETAILED	E.L. WALLON	CHECKED	R.S. BURR	REVIEWED	Nov. 2022
DESIGN REVIEWED	J. PELLIER	DESIGN DETAILED		SIGNATURE	
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REVISIONS 2		REVISIONS 2		DATE	
REVISIONS 3		REVISIONS 3			
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INTERSTATE 95 NORTHBOUND	
BRIDGE JOINT REHABILITATIONS	
WATERVILLE TO BENTON	
BRIDGE PLANS	
(2 OF 6)	

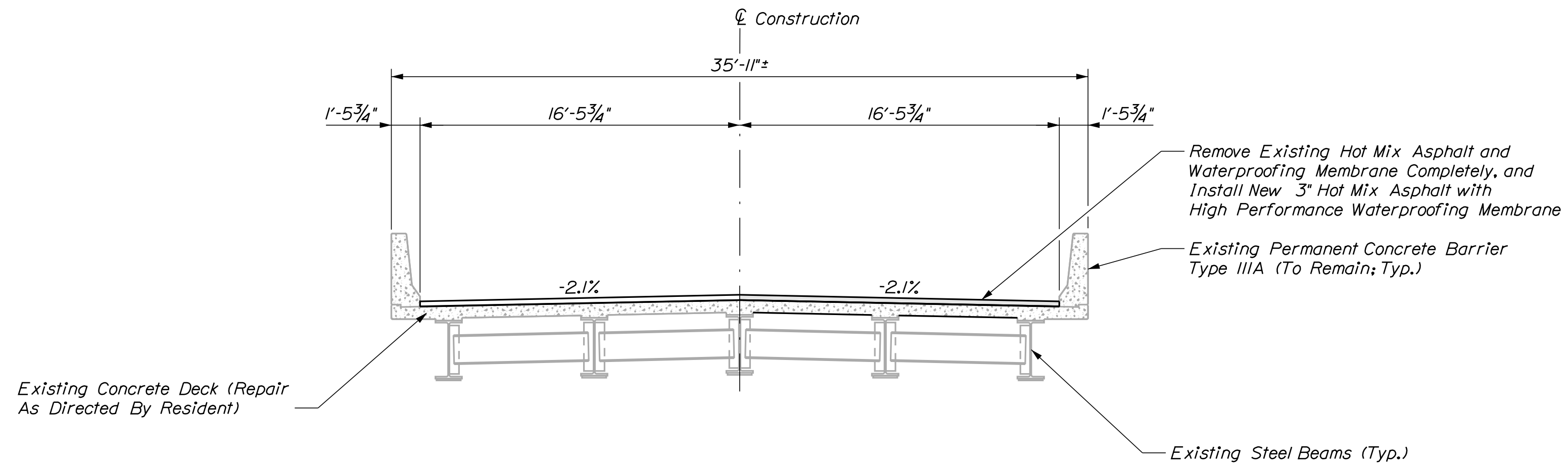
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OF 27	



INTERSTATE 95 NORTHBOUND OVER MESSALONSKEE
STREAM AND QUARRY ROAD TRANSVERSE SECTION
SPANS 1 TO 3

Waterville - Messalonskee Stream Bridge, Bridge No. 5817

TRANSVERSE SECTION



INTERSTATE 95 NORTHBOUND OVER MESSALONSKEE
STREAM AND QUARRY ROAD TRANSVERSE SECTION
SPANS 4 TO 11

Waterville - Messalonskee Stream Bridge, Bridge No. 5817

TRANSVERSE SECTION

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

2506100

WIN

25061.00

BRIDGE NO. 5817

BRIDGE PLANS

SIGNATURE

DATE

BY

T. HAMEL

PROJ. MANAGER

DESIGN-REVIEWED

DESIGN-REVIEWED

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INTERSTATE 95 NORTHBOUND
BRIDGE JOINT REHABILITATIONS
WATERVILLE TO BENTON

BRIDGE PLANS
(3 OF 6)

SHEET NUMBER

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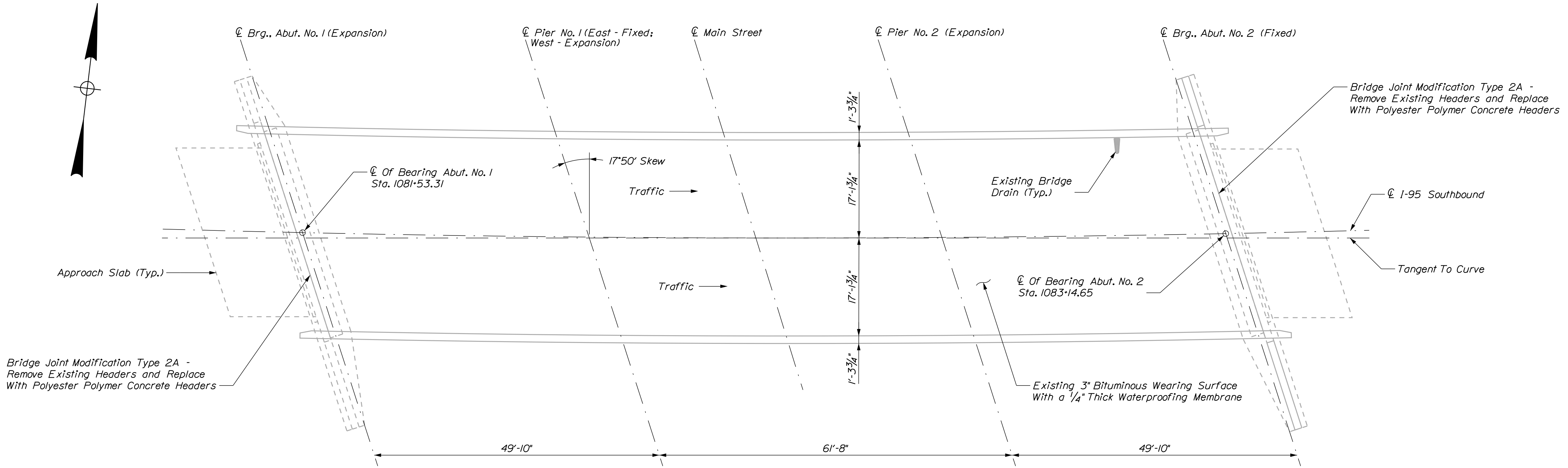
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Date: 12/12/2022

Username: Richard.Mayer

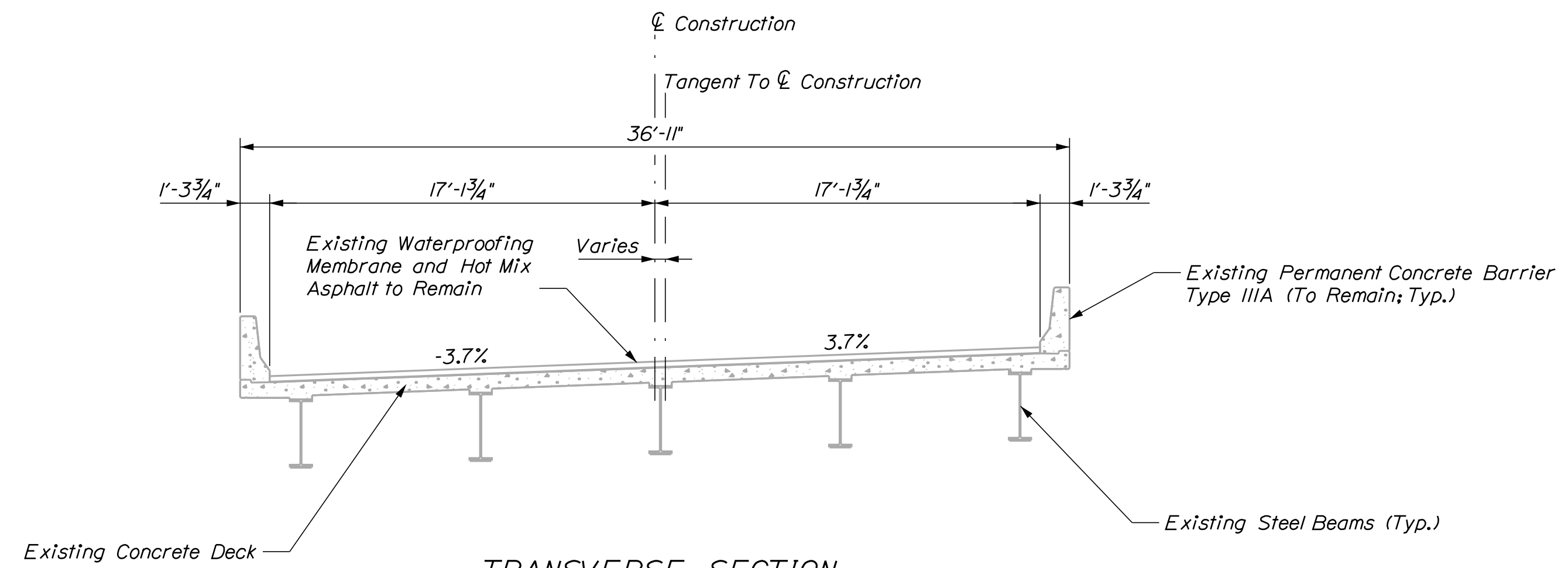
Division: BRIDGE

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INTERSTATE 95 NORTHBOUND OVER MAIN STREET
Waterville - Main Street Bridge, Bridge No. 5818

PLAN



TRANSVERSE SECTION

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

2506100

WIN

BRIDGE NO. 5818 25061.00 BRIDGE PLANS

SIGNATURE

DATE

P.E. NUMBER

DATE

INTERSTATE 95 NORTHBOUND
BRIDGE JOINT REHABILITATIONS
WATERVILLE TO BENTON

BRIDGE PLANS
(4 OF 6)

SHEET NUMBER

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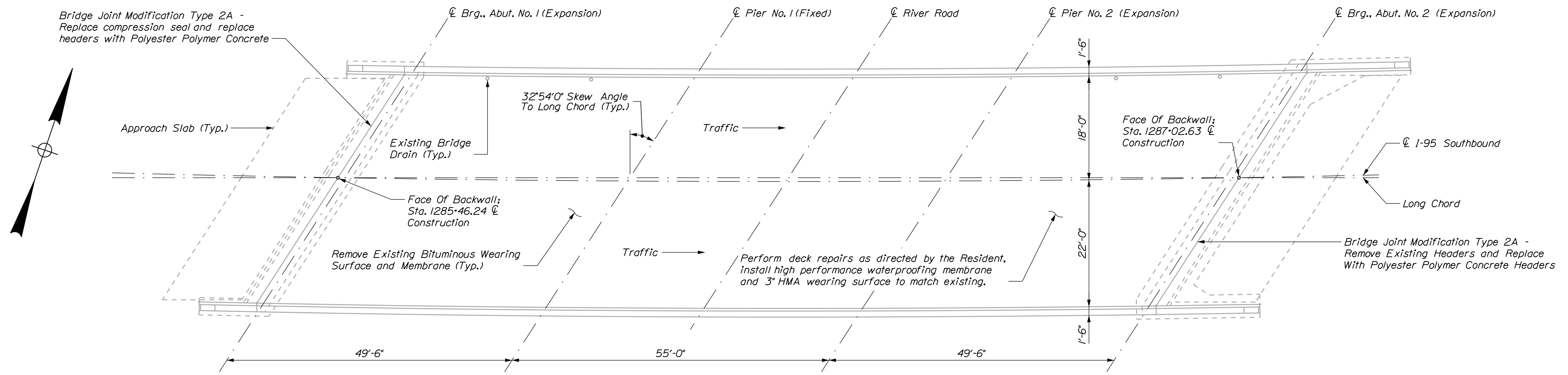
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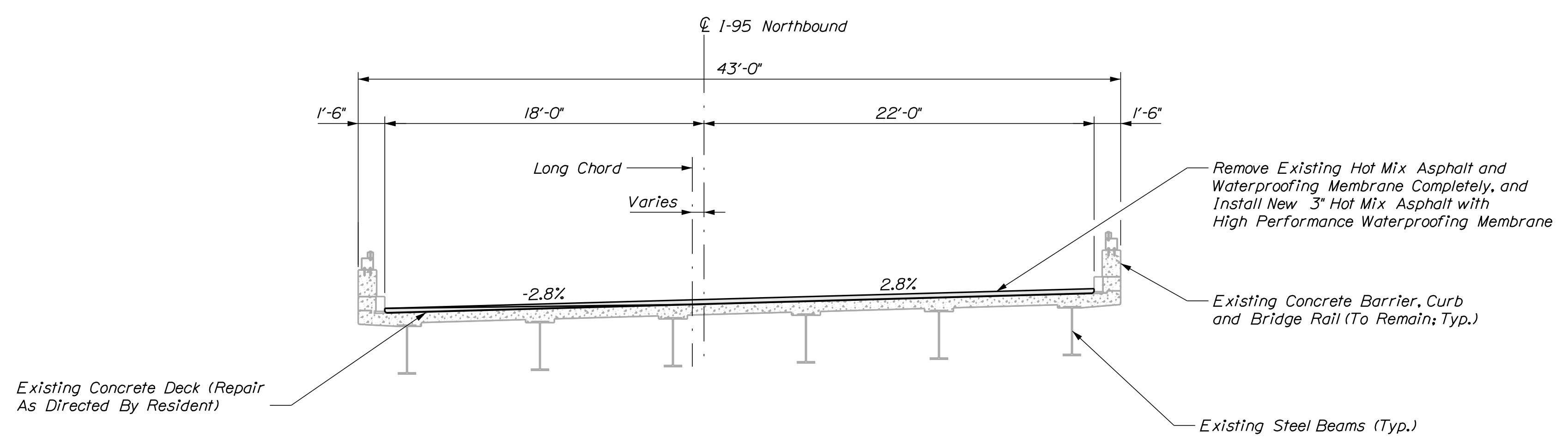
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INTERSTATE 95 NORTHBOUND OVER RIVER ROAD
 Benton - River Road Bridge, Bridge No. 5993

PLAN



TRANSVERSE SECTION

STATE OF MAINE DEPARTMENT OF TRANSPORTATION		2506100	WIN	25061.00	BRIDGE NO. 5993	BRIDGE PLANS	
INTERSTATE 95 NORTHBOUND BRIDGE JOINT REHABILITATIONS WATERVILLE TO BENTON		SIGNATURE		P.E. NUMBER		DATE	
PROJ. MANAGER	T. HAMEL	BY	DATE	DESIGN-REVIEWED		REVISIONS	
DESIGN-DETAILED	E.L. Walton	R. Mayer	Nov. 2022	CHECKED-REVIEWED		REVISIONS 1	
DESIGN-DETAILED	J. Pelletier	R.S. Burt	Nov. 2022	DESIGN-DETAILED		REVISIONS 2	
DESIGN-DETAILED		DESIGN-DETAILED		DESIGN-DETAILED		REVISIONS 3	
DESIGN-DETAILED		DESIGN-DETAILED		DESIGN-DETAILED		REVISIONS 4	
DESIGN-DETAILED		DESIGN-DETAILED		DESIGN-DETAILED		FIELD CHANGES	
INTERSTATE 95 NORTHBOUND BRIDGE JOINT REHABILITATIONS WATERVILLE TO BENTON		BRIDGE PLANS (6 OF 6)		SHEET NUMBER			
10		OF 27					

Date:11/30/2022

Username: jrobert

Division: HIGHWAY

Filename: ... \MSTAD011_TCP_Notes_01.dgn

PROJECT MAINTENANCE OF TRAFFIC CONTROL REQUIREMENTS

1. THE CONTRACTOR SHALL PREPARE AND SUBMIT A TRAFFIC CONTROL PLAN (TCP) IN ACCORDANCE WITH STANDARD SPECIFICATIONS SECTION 652 AND APPLICABLE SPECIAL PROVISIONS.
2. THE TEMPORARY TRAFFIC CONTROL SEQUENCE IS PROVIDED FOR INFORMATIONAL PURPOSES TO GUIDE THE CONTRACTOR'S DEVELOPMENT OF THE PROJECT TCP.
3. THE TRAFFIC CONTROL DETAILS THAT ARE PROVIDED ON THE FOLLOWING SHEETS ARE INTENDED FOR INFORMATIONAL PURPOSES TO GUIDE THE CONTRACTOR'S DEVELOPMENT OF THE PROJECT TCP. THE PROVIDED TRAFFIC CONTROL DETAILS ARE NOT INTENDED TO BE A COMPLETE TCP.
4. THE TCP SHALL BE SIGNED AND STAMPED BY A PROFESSIONAL ENGINEER LICENSED BY THE STATE OF MAINE.
5. THE MAXIMUM SPACING FOR CHANNELIZING DEVICES SHALL BE 50 FEET ALONG A TAPER AND 100 FEET ALONG A TANGENT.
6. THE DESIGN SPEED FOR THE CROSS-OVERS SHALL BE A MINIMUM OF 55 MPH.
7. A WORK ZONE SPEED LIMIT SHALL BE APPLIED ALONG THE CROSS-OVERS AND THEIR APPROACHES AT 55 MPH. THE WORK ZONE SPEED LIMIT SHALL BE SIGNED USING AUTOMATED TRAILER MOUNTED SPEED LIMIT SIGNS.
8. R2-12 "END WORK ZONE SPEED LIMIT" SIGNS SHALL BE INCLUDED ANYTIME THE WORK ZONE SPEED LIMIT IS APPLIED.
9. THE CONTRACTOR'S TCP SHALL INCLUDE PORTABLE CHANGEABLE MESSAGE SIGNS FOR EACH DIRECTION OF TRAFFIC. PROPOSED MESSAGES SHALL BE PROVIDED BY THE CONTRACTOR AND APPROVED BY THE RESIDENT.
10. THE MINIMUM DESIGN SPEED FOR TRANSITION TAPERS SHALL BE 70 MPH PRIOR TO THE CROSS-OVERS AND 60 MPH FOLLOWING THE CROSS-OVERS.
11. WHERE DRUMS ARE PLACED ALONG A SHOULDER OR LANE CLOSURE TANGENT, THE DRUMS SHOULD BE PLACED TWO FEET FROM THE TRAVELED WAY.
12. WHERE TRAFFIC IS ADJACENT TO TEMPORARY OR PERMANENT BARRIER AND/OR GUARDRAIL FOR MORE THAN THREE CONSECUTIVE CALENDAR DAYS, A MINIMUM OF TWO FEET OF SHOULDER ON EACH SIDE OF THE TRAVELED WAY SHALL BE PROVIDED.
13. WHERE LANE CLOSURES AND/OR LANE SHIFTS ARE REQUIRED FOR MORE THAN SEVEN CONSECUTIVE CALENDAR DAYS, TEMPORARY PAVEMENT MARKINGS SHALL BE APPLIED.
14. THE CONTRACTOR SHALL IDENTIFY, RECORD, AND SUBMIT TO THE RESIDENT THE LOCATIONS OF ALL EXISTING PAVEMENT MARKINGS AND RUMBLE STRIPS WITHIN THE PROJECT AREA. THIS WORK SHALL BE INCIDENTAL TO ITEM 510.301 EXPRESSWAY MEDIAN CROSSOVER.
15. WHERE TEMPORARY RUMBLE STRIPS ARE REQUIRED, W8-1 "BUMP" SIGNS SHALL BE POSTED AT THE RUMBLE STRIPS AND W24-1A "RUMBLE STRIPS AHEAD" SIGNS SHALL BE POSTED IN ADVANCE OF THE FIRST SET OF TEMPORARY RUMBLE STRIPS.
16. WHERE TEMPORARY RUMBLE STRIPS ARE INSTALLED, THEY SHALL BE INSTALLED IN A SERIES OF AT LEAST TWO SETS, SEPARATED BY AT LEAST 800 FEET. NO RUMBLE STRIPS SHALL BE INSTALLED WITHIN THE TWO-WAY CROSS-OVER TRAFFIC AREA.
17. THE CONTRACTOR SHALL USE STATE TROOPERS IN A ROLLING ROADBLOCK TO TRANSITION TRAFFIC TO THE CROSS-OVER AND TO TRANSITION TRAFFIC WHEN CLOSING THE CROSS-OVER.

SUGGESTED TEMPORARY TRAFFIC CONTROL SEQUENCE

PHASE 1: CONSTRUCT CROSS-OVERS


1. INSTALL W20-1(A) "ROAD WORK AHEAD" AND G20-2 "END ROAD WORK" SIGNS AT THE LIMITS OF THE PROJECT FOR I-95 NORTHBOUND AND I-95 SOUTHBOUND. THESE SIGNS MAY REMAIN THROUGHOUT ALL CONSTRUCTION PHASES.
2. ESTABLISH NIGHTTIME LEFT LANE CLOSURES ALONG I-95 NORTHBOUND AND I-95 SOUTHBOUND TO EXCAVATE OVERBURDEN. PROVIDE A MINIMUM 500-FOOT BUFFER ZONE FROM THE END OF THE LANE CLOSURE TO THE BEGINNING OF OVERBURDEN STORAGE AREA WITHIN 30 FEET OF THE EDGE OF PAVEMENT. PROVIDE A MINIMUM 200-FOOT BUFFER ZONE BEYOND THE END OF THE OVERBURDEN STORAGE AREA.
3. CONSTRUCT TEMPORARY BEST MANAGEMENT PRACTICE (BMP) FOR COLLECTION AND TREATMENT OF CONSTRUCTION STORMWATER. MEDIAN DRAINAGE AND STORMWATER BMP(S) SHALL BE MAINTAINED FOR THE DURATION OF THE PROJECT.
4. EXCAVATE OVERBURDEN MATERIAL AND TEMPORARILY STORE ON SITE. AFTER OVERBURDEN REMOVAL, THE CONTRACTOR SHALL REQUEST THE RESIDENT AND ENGINEER OF RECORD TO INSPECT THE CONDITION OF THE UNDERLYING PAVEMENT.
5. CONTRACTOR SHALL SURVEY THE MEDIAN AT THE SOUTHERN AND NORTHERN CROSS-OVER AREAS. PREPARE AND SUBMIT THE PROPOSED CROSS-OVER DESIGNS.
6. REMOVE AND FILL THE EXISTING RUMBLE STRIPS ALONG THE I-95 SOUTHBOUND ROADWAY (LEFT AND RIGHT SIDES) THROUGHOUT THE WORK ZONE AND WITHIN 25 FEET OF THE CROSS-OVER PAVEMENT TIE-INS ON THE LEFT SIDE OF THE I-95 NORTHBOUND ROADWAY.
7. FOLLOWING MAINE DOT APPROVAL OF THE CROSS-OVER DESIGN, CONSTRUCT THE RAMP A AND RAMP D CROSS-OVERS IN THE MEDIAN BETWEEN THE I-95 NORTHBOUND EDGE OF PAVEMENT AND THE I-95 SOUTHBOUND EDGE OF PAVEMENT.
8. ESTABLISH SIDE SLOPES TO MAINTAIN EXISTING DRAINAGE. SIDE SLOPES SHALL BE GRADED AT A MAXIMUM OF 1.5:1.
9. WHEN WORKERS ARE NOT PRESENT, INSTALL DRUMS AT THE EDGE OF MAINLINE PAVEMENT AT THE THROAT OF THE CROSS-OVERS, SPACED AT NOT MORE THAN 20-FOOT ON CENTER. INCLUDE THREE TYPE III BARRICADES AT THE THROAT WITH ONE R11-2 "ROAD CLOSED" SIGN MOUNTED TO ONE OF THE BARRICADES.

PHASE 2A: RIGHT LANE CLOSURE TO PREPARE RIGHT LANE FOR TRAFFIC SHIFT

1. INSTALL A RIGHT LANE CLOSURE ALONG I-95 SOUTHBOUND. THE END OF THE LANE CLOSURE TAPER SHALL BE AT LEAST 1,000 FEET NORTH OF THE THEORETICAL GORE FOR THE EXIT 130 SOUTHBOUND OFF-RAMP.
2. THERE SHALL BE A MINIMUM OF 3 SETS OF TEMPORARY RUMBLE STRIPS INCLUDING ONE AT LEAST 250 FEET PRIOR TO THE LANE REDUCTION TAPER, ONE AT THE END OF THE RIGHT LANE CLOSURE TAPER AND ONE PRIOR TO THE EXIT 130 ON-RAMP ENTRANCE.
3. THE EXIT 130 OFF-RAMP SHALL REMAIN OPEN THROUGHOUT CONSTRUCTION. TRAFFIC CONTROL SHALL BE IN ACCORDANCE WITH MUTCD SECTION 6, TYPICAL APPLICATION 42 (TA-42).
4. THE EXIT 130 ON-RAMP SHALL INCLUDE W20-1A "ROAD WORK AHEAD", W20-5R(A) "RIGHT LANE CLOSED AHEAD", AND R1-1 "STOP" SIGNS.
5. REMOVE THE EXISTING RIGHT (WHITE) EDGE LINE FROM APPROXIMATELY 400 FEET NORTH OF THE NORTHERN LIMIT OF THE PHASE 4 CENTERLINE TEMPORARY BARRIER TO APPROXIMATELY 300 FEET SOUTH OF THE SOUTHERN LIMIT OF THE PHASE 4 CENTERLINE TEMPORARY BARRIER.
6. PLACE A TEMPORARY WHITE EDGE LINE THREE FEET OFFSET RIGHT FROM THE EXISTING EDGE LINE. TAPER THE NORTHERN END AND SOUTHERN END AT 60:1 TO MATCH INTO THE EXISTING EDGE LINE.
7. PLACE A TEMPORARY YELLOW EDGE LINE THREE FEET OFFSET RIGHT FROM THE EXISTING I-95 SOUTHBOUND LANE LINE BEGINNING APPROXIMATELY 200 FEET NORTH OF THE NORTHERN LIMIT OF THE PHASE 4 CENTERLINE TEMPORARY BARRIER TO APPROXIMATELY THE EXISTING MEDIAN EMERGENCY CROSS-OVER.
8. TAPER THE NORTHERN END OF THE TEMPORARY YELLOW EDGE LINE AT 60:1 TO MATCH INTO THE EXISTING LANE LINE.

PHASE 2B: LEFT LANE CLOSURE TO PREPARE LEFT LANE FOR TRAFFIC SHIFT

1. INSTALL A LEFT LANE CLOSURE ALONG I-95 SOUTHBOUND. THE END OF THE LANE CLOSURE TAPER SHALL BE AT LEAST 1,000 FEET NORTH OF THE THEORETICAL GORE FOR THE EXIT 130 SOUTHBOUND OFF-RAMP.
2. REMOVE THE EXISTING LANE LINE (WHITE) FROM 80 FEET NORTH OF THE BEGINNING OF THE LEFT LANE CLOSURE TAPER TO THE BEGINNING OF THE RIGHT LANE SHIFT (AT THE NORTHERN LIMIT OF THE YELLOW EDGE LINE INSTALLED IN PHASE 3A). PLACE A TEMPORARY YELLOW EDGE LINE ALONG THE TAPER AND TANGENT PORTION OF THE LANE CLOSURE WHERE THE LANE LINE HAS BEEN REMOVED.
3. THERE SHALL BE A MINIMUM OF 3 SETS OF TEMPORARY RUMBLE STRIPS INCLUDING ONE AT LEAST 250 FEET PRIOR TO THE LANE REDUCTION TAPER, ONE AT THE END OF THE RIGHT LANE CLOSURE TAPER AND ONE PRIOR TO THE EXIT 130 ON-RAMP ENTRANCE.
4. REMOVE THE EXISTING LEFT (YELLOW) EDGE LINE FROM 100 FEET NORTH OF THE NORTHERN LIMIT OF THE CROSS-OVER TO 100 FEET SOUTH OF THE SOUTHERN LIMIT OF THE CROSS-OVER. PLACE A TEMPORARY WHITE EDGE LINE THREE FEET OFFSET LEFT FROM THE EXISTING EDGE LINE. CONNECT THE TEMPORARY WHITE EDGE LINE TO THE EXISTING WHITE EDGE LINES ON THE CROSS-OVERS.
5. EXTEND THE TEMPORARY BARRIER FROM THE LEFT SIDE OF THE NORTHERN CROSS-OVER TO THE I-95 SOUTHBOUND CENTERLINE, CONTINUING THE TEMPORARY BARRIER SOUTH TO THE LEFT SIDE OF THE SOUTHERN CROSS-OVER.
6. PLACE A TEMPORARY YELLOW EDGE LINE AT TWO FEET LEFT OF THE TEMPORARY BARRIER, CONNECTING THE TWO ENDS TO THE EXISTING YELLOW EDGE LINES ON THE CROSS-OVERS. TAPER THE RIGHT LANE YELLOW EDGE LINE AT THE SOUTHERN END OF THE TEMPORARY BARRIER 100' TO MATCH INTO THE EXISTING EDGE LINE.
7. STAGE AND INSTALL PHASE 4 CONSTRUCTION SIGNS AND WARNING DEVICES ALONG I-95 NORTHBOUND FOR THE CROSS-OVER OPERATION.

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PROJ. MANAGER DESIGN-DETAILED CHECKED-REVIEWED DESIGN-DETAILED REVISIONS 1 REVISIONS 2 REVISIONS 3 REVISIONS 4 FIELD CHANGES	T. HANEL MLC MOS MOS 1 2 3 4	BY JAR ----- ----- ----- ----- ----- ----- -----	DATE 1/30/2022 1/30/2022 	

SUGGESTED TEMPORARY TRAFFIC CONTROL SEQUENCE (CONTINUED)

PHASE 3: ACTIVATE MEDIAN CROSS-OVERS; CLOSE I-95 NORTHBOUND

1. MAINTAIN I-95 SOUTHBOUND LEFT LANE CLOSURE FROM PHASE 2B THROUGHOUT CROSS-OVER OPERATION.
2. ESTABLISH RIGHT LANE CLOSURE ALONG I-95 NORTHBOUND.
3. PLACE CHANNELIZING DEVICES ACROSS THE EXISTING MEDIAN EMERGENCY CROSS-OVER TO PROHIBIT ACCESS DURING CROSS-OVER OPERATIONS.
4. UNCOVER PHASE 4 CONSTRUCTION SIGNS. UTILIZE A STATE TROOPER IN A ROLLING ROADBLOCK TO PILOT I-95 NORTHBOUND TRAFFIC TO THE CROSS-OVER. PLACE CONSTRUCTION SIGNS AND WARNING DEVICES NORTH OF THE SOUTHERN CROSS-OVER TO CLOSE I-95 NORTHBOUND.
5. MAINTAIN I-95 NORTHBOUND CLOSURE AT THE SOUTHERN CROSS-OVER UNTIL BRIDGE WORK IS COMPLETED.
6. COMPLETE BRIDGE JOINT REPAIRS TO BRIDGES 5816 AND 5817 WHILE I-95 NORTHBOUND IS DIVERTED.

PHASE 4A: RE-OPEN I-95 NORTHBOUND

1. SWEEP AND CLEAR ALL CONSTRUCTION DEBRIS FROM THE I-95 NORTHBOUND CONSTRUCTION ZONES.
2. REMOVE TEMPORARY STRIPING AND DRUMS FROM THE NORTHBOUND ROADWAY AT THE NORTHERN CROSS-OVER TIE-IN.
3. TRANSITION I-95 NORTHBOUND FROM RIGHT LANE CLOSURE TO LEFT LANE CLOSURE AT THE SOUTHERN AND NORTHERN CROSS-OVER TIE-IN. REMOVE TEMPORARY STRIPING FROM THE NORTHBOUND ROADWAY AT THE SOUTHERN CROSS-OVER TIE-IN.
4. REMOVE TEMPORARY BARRIER ALONG THE CROSS-OVERS WITHIN 36 FEET OF THE I-95 NORTHBOUND AND I-95 SOUTHBOUND TRAVELED WAY.
5. REMOVE THE I-95 NORTHBOUND LEFT LANE CLOSURE AND RETURN I-95 NORTHBOUND TO TWO TRAVEL LANES.

PHASE 4B: REMOVE I-95 SOUTHBOUND TEMPORARY BARRIER

1. MAINTAIN I-95 SOUTHBOUND LEFT LANE CLOSURE. REMOVE TEMPORARY BARRIER ALONG THE I-95 SOUTHBOUND CENTERLINE, BEGINNING FROM THE SOUTHERN END AND WORKING NORTH. REPLACE TEMPORARY BARRIER WITH DRUMS DURING REMOVAL.
2. REMOVE THE TEMPORARY YELLOW AND WHITE EDGE LINES FROM THE I-95 SOUTHBOUND LEFT LANE. RE-INSTALL ORIGINAL LEFT LANE YELLOW EDGE LINE.
3. RE-ESTABLISH PHASE 3A TRAFFIC CONTROL ALONG I-95 SOUTHBOUND (TRANSITION FROM LEFT LANE CLOSURE TO RIGHT LANE CLOSURE).
4. REMOVE THE TEMPORARY YELLOW AND WHITE EDGE LINES FROM THE I-95 SOUTHBOUND RIGHT LANE. RE-INSTALL ORIGINAL RIGHT LANE WHITE EDGE LINE AND LANE LINES.
5. RE-ESTABLISH PHASE 1 TRAFFIC CONTROL ALONG I-95 SOUTHBOUND TO PLACE STOCKPILED FILL, SEED, AND MULCH ON THE CROSS-OVER PAVEMENT TO RETURN THE MEDIAN TO PRE-EXISTING CONDITIONS.

PROJECT COMPLETION

1. CONSTRUCT FINAL PAVEMENT MARKINGS AND SIGNING OVER THE ENTIRE PROJECT.
2. REINSTALL RUMBLE STRIPS WHERE PREVIOUSLY REMOVED.
3. REMOVE ALL CONSTRUCTION SIGNS AND WARNING DEVICES.

TCP SIGN SUMMARY

CONSTRUCTION SIGN SUMMARY				
Sign	Text Dimensions (Inches)		Size	Quantity and Color
	Letter Height	Vertical Spacing		
G20-2		Text Dimensions Shall Conform to "Standard Highway Signs" - 2012	48"x24"	4 - Black on Orange
G20-5aP			36"x24"	4 - Black on Orange
RI-1			36"x36"	2 - Red on White
R2-1(55)			48"x60"	4 - Black on White
R2-12			36"x54"	4 - Black on White
RII-2			60"x30"	4 - Black on White
WI-4L			48"x48"	1 - Black on Orange
WI-4R			48"x48"	1 - Black on Orange
WI-6(L)			60"x30"	2 - Black on Orange
WI-6(R)			60"x30"	1 - Black on Orange
W3-5(55)			48"x48"	4 - Black on Orange
W4-1 (FLASHING)			36"x36"	1 - Black on Yellow (with Flashing LEDs)
W4-2(L)			48"x48"	8 - Black on Orange
W4-2(R)			48"x48"	2 - Black on Orange

CONSTRUCTION SIGN SUMMARY				
Sign	Text Dimensions (Inches)		Size	Quantity and Color
	Letter Height	Vertical Spacing		
W8-1		Text Dimensions Shall Conform to "Standard Highway Signs" - 2012	48"x48"	14 - Black on Orange
W8-24a			48"x48"	4 - Black on Orange
W20-1			48"x48"	4 - Black on Orange
W20-1a			48"x48"	6 - Black on Orange
W20-1 (1/2)			48"x48"	2 - Black on Orange
W20-5L			48"x48"	4 - Black on Orange
W20-5L(A)			48"x48"	6 - Black on Orange
W20-5R			48"x48"	2 - Black on Orange
W20-5R(A)			48"x48"	1 - Black on Orange
E5-1			72"x60"	1 - White on Green

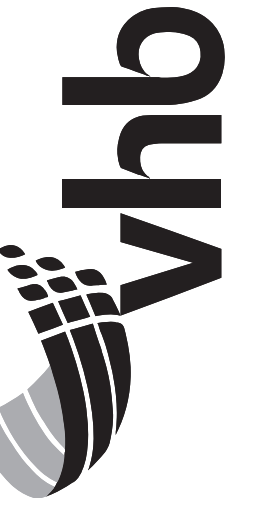
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Division: HIGHWAY

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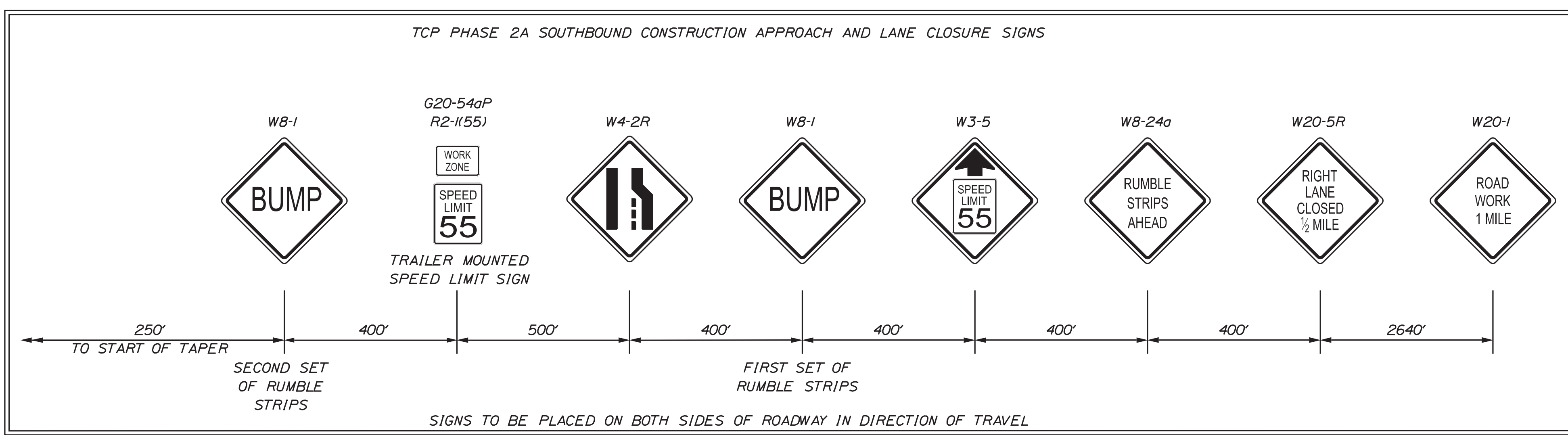
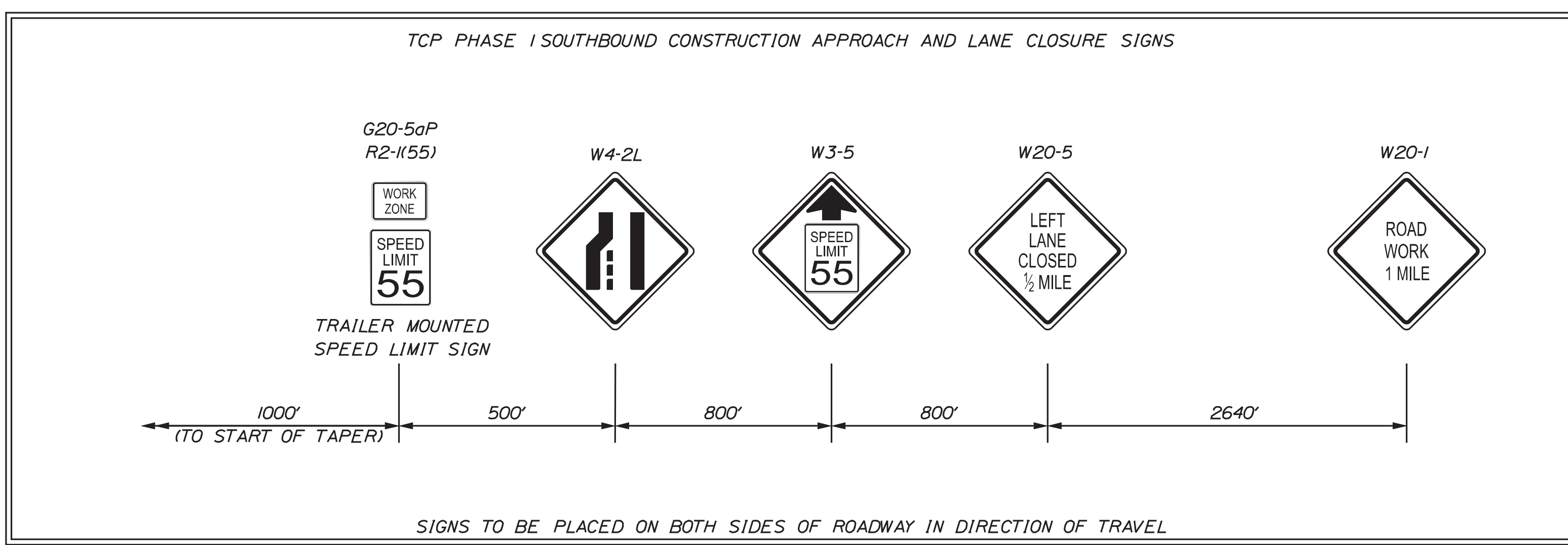
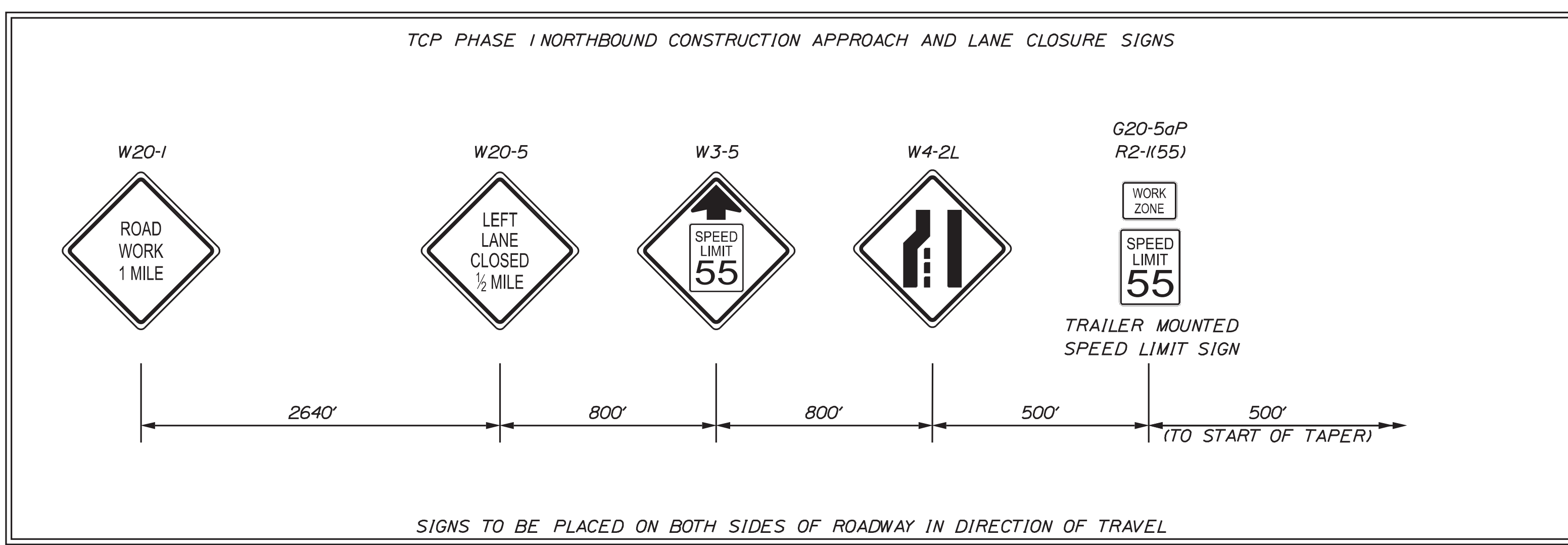
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I-95 NORTHBOUND
WATERVILLE
TCP NOTES
(2 OF 2)

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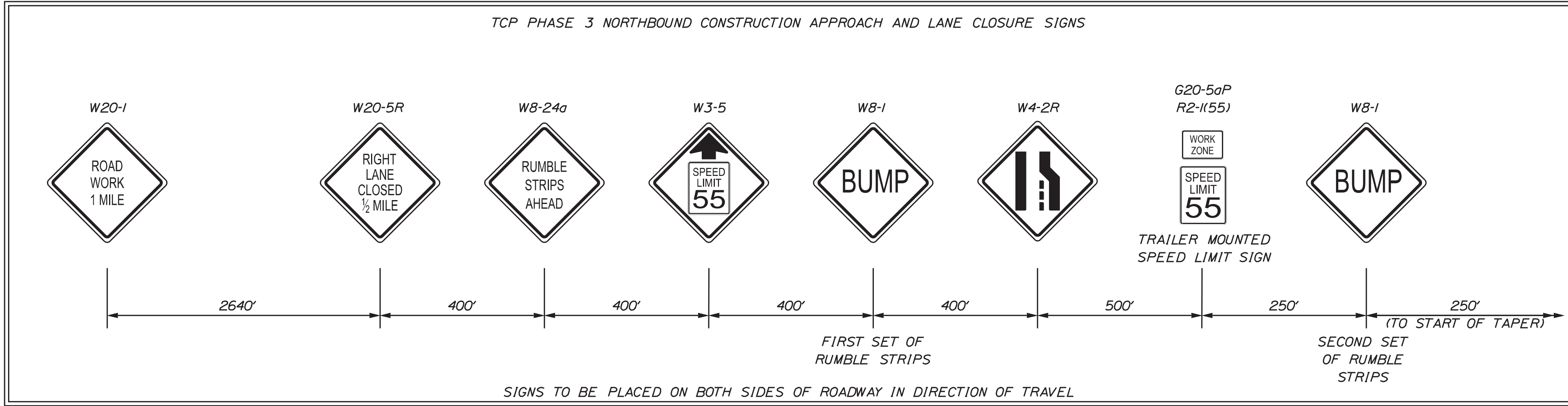
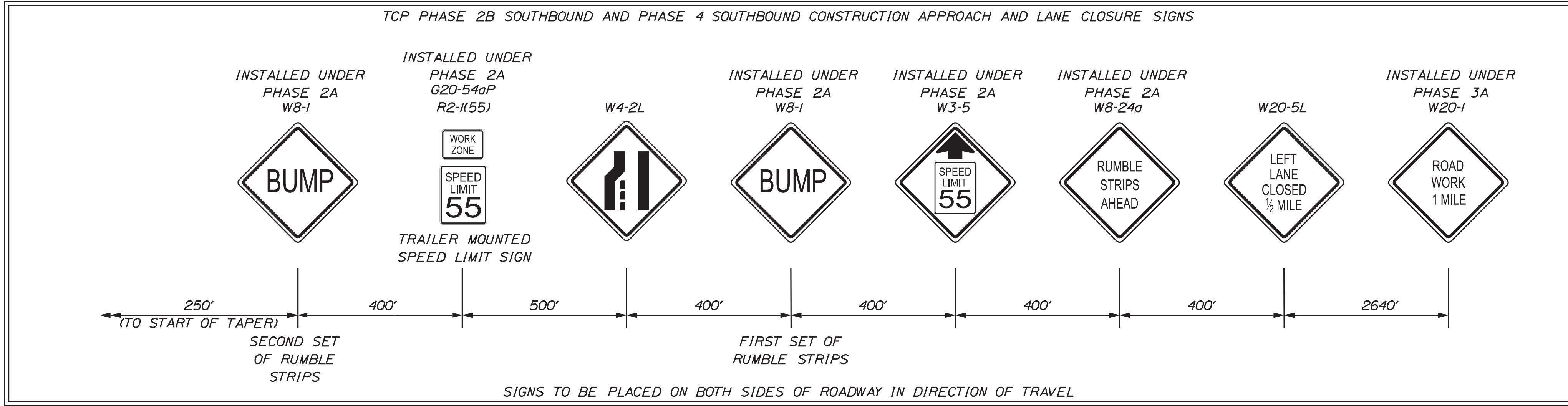
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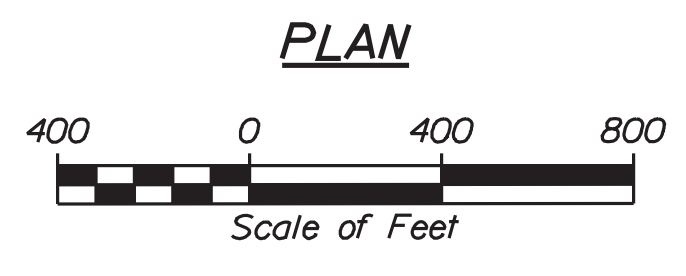
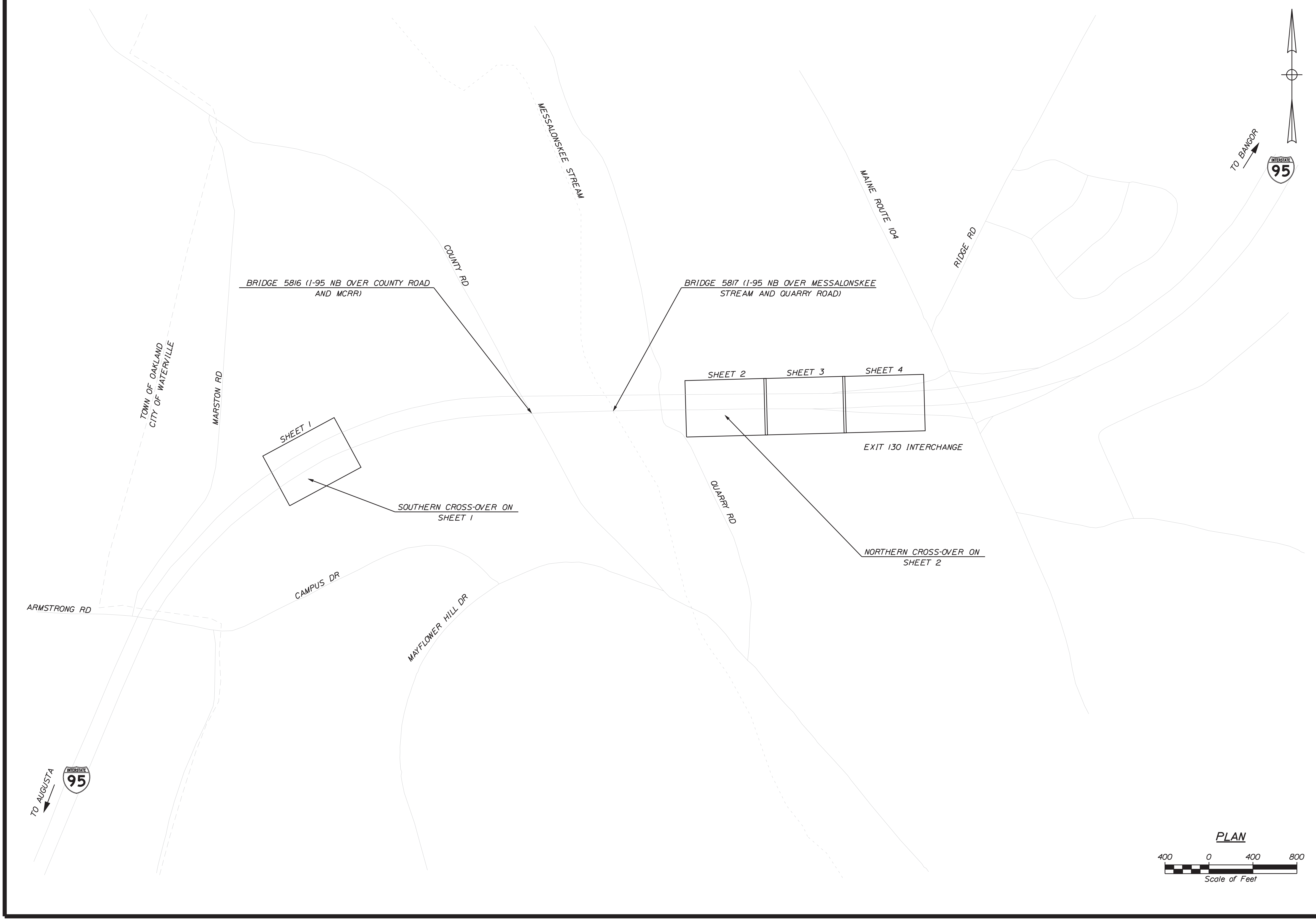
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I-95 NORTHBOUND
WATERVILLE
TCP ADVANCE SIGN DETAILS
(1 OF 2)



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I-95 NORTHBOUND
WATERVILLE
TCP KEY PLAN

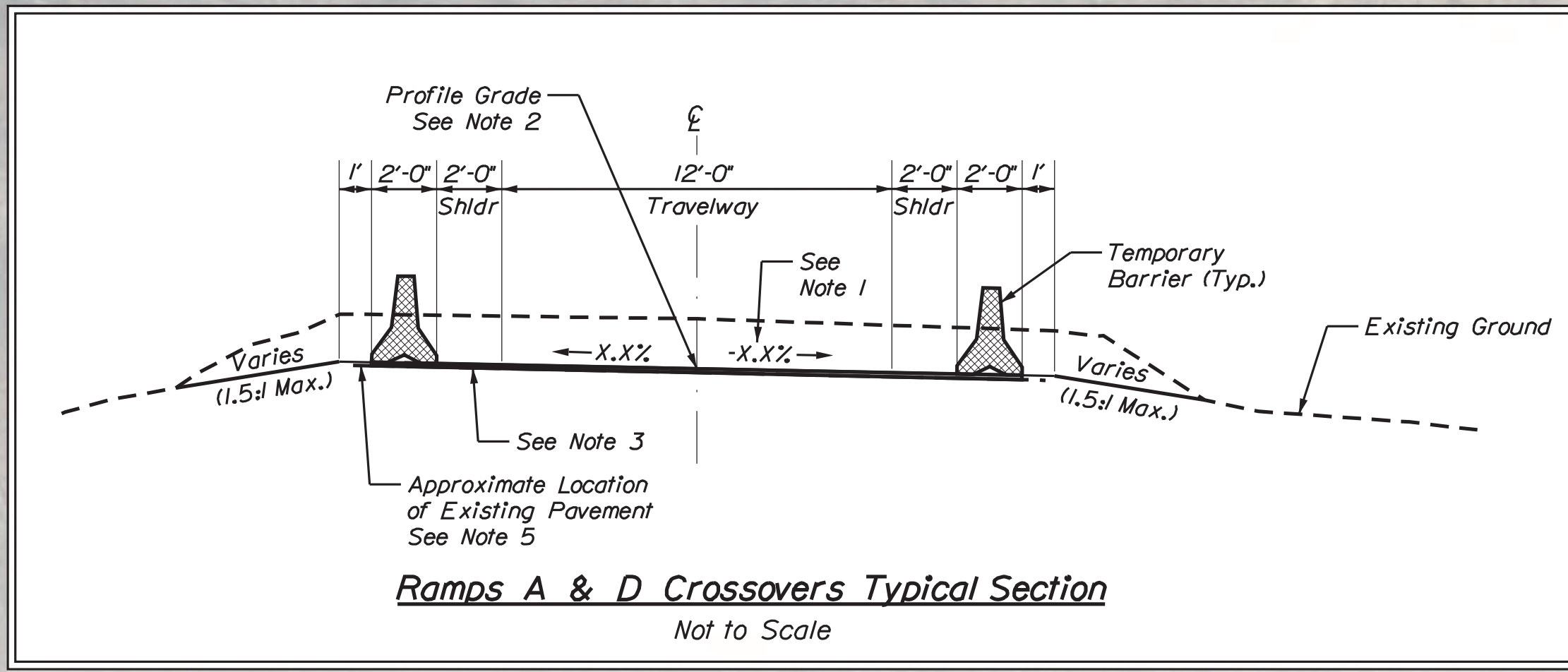
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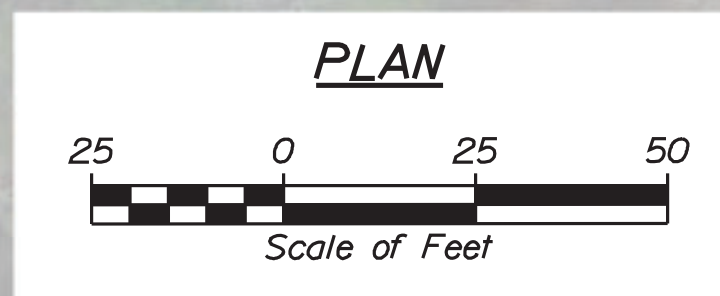
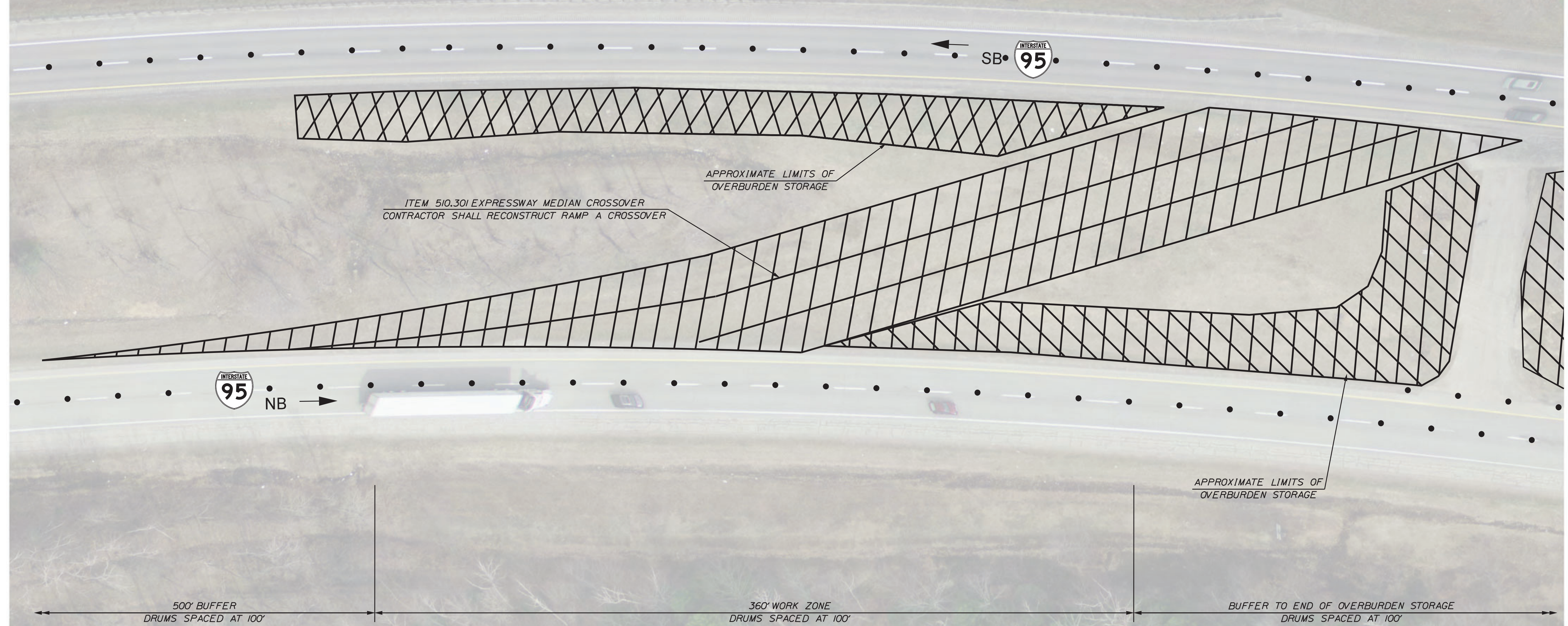
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- Notes:**
1. Contractor shall determine cross-slopes and submit as part of the Traffic Control Plan for approval.
 2. Contractor shall determine proposed profiles and submit as part of the Traffic Control Plan for approval. Existing plans, which show the previous time these crossovers were constructed, are available online.
 3. In the crossovers, after removal of 12-18" of soil, clean and perform a 3/4" overlay on existing pavement. 3" of new HMA shall be placed in areas where no existing pavement is present. Pavement shall be paid for by the Ton as Item 461.131 - Temporary Pavement. Based on site conditions, the Contractor may propose or amend their Traffic Control Plan with an alternative pavement structure for approval.
 4. Side slopes shall be graded so as to allow existing drainage to be maintained. If temporary drainage structures are required, they shall be incidental to Item 510.301 - Expressway Median Crossover.
 5. Location and width of existing pavement shown in approximate. Depth from existing ground varies.

← BUFFER TO END OF OVERBURDEN STORAGE
DRUMS SPACED AT 100' →



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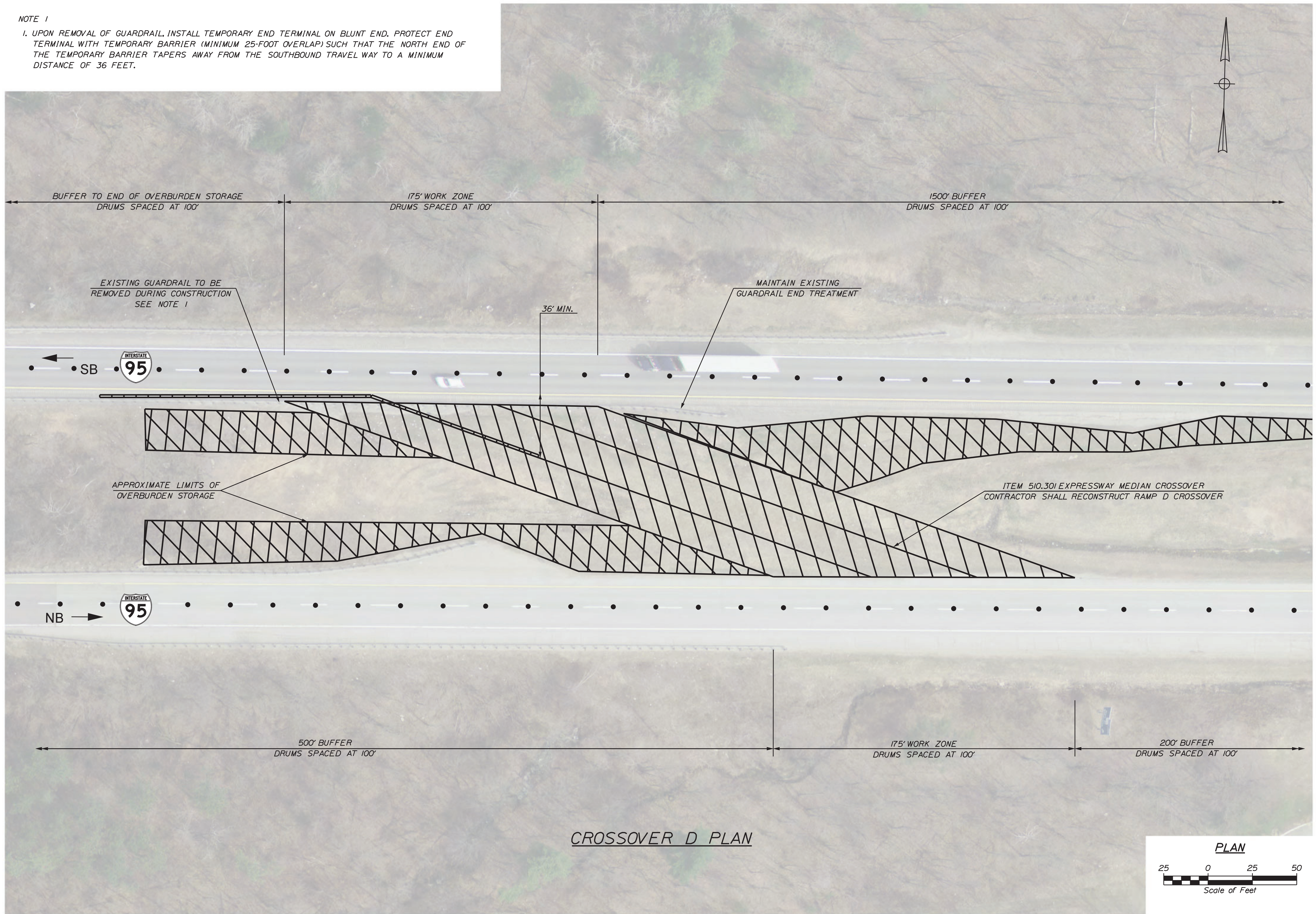
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I-95 NORTHBOUND
WATERVILLE
TCP PHASE 1
(SHEET 1 OF 2)

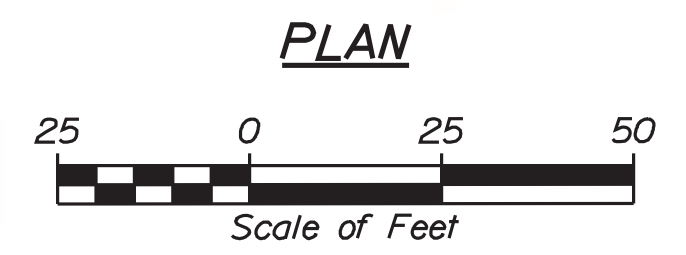
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NOTE 1

I. UPON REMOVAL OF GUARDRAIL, INSTALL TEMPORARY END TERMINAL ON BLUNT END. PROTECT END TERMINAL WITH TEMPORARY BARRIER (MINIMUM 25-FOOT OVERLAP) SUCH THAT THE NORTH END OF THE TEMPORARY BARRIER TAPERS AWAY FROM THE SOUTHBOUND TRAVEL WAY TO A MINIMUM DISTANCE OF 36 FEET.



CROSSOVER D PLAN



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Division: HIGHWAY

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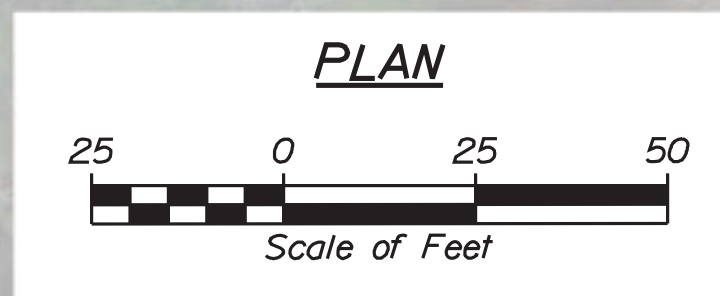
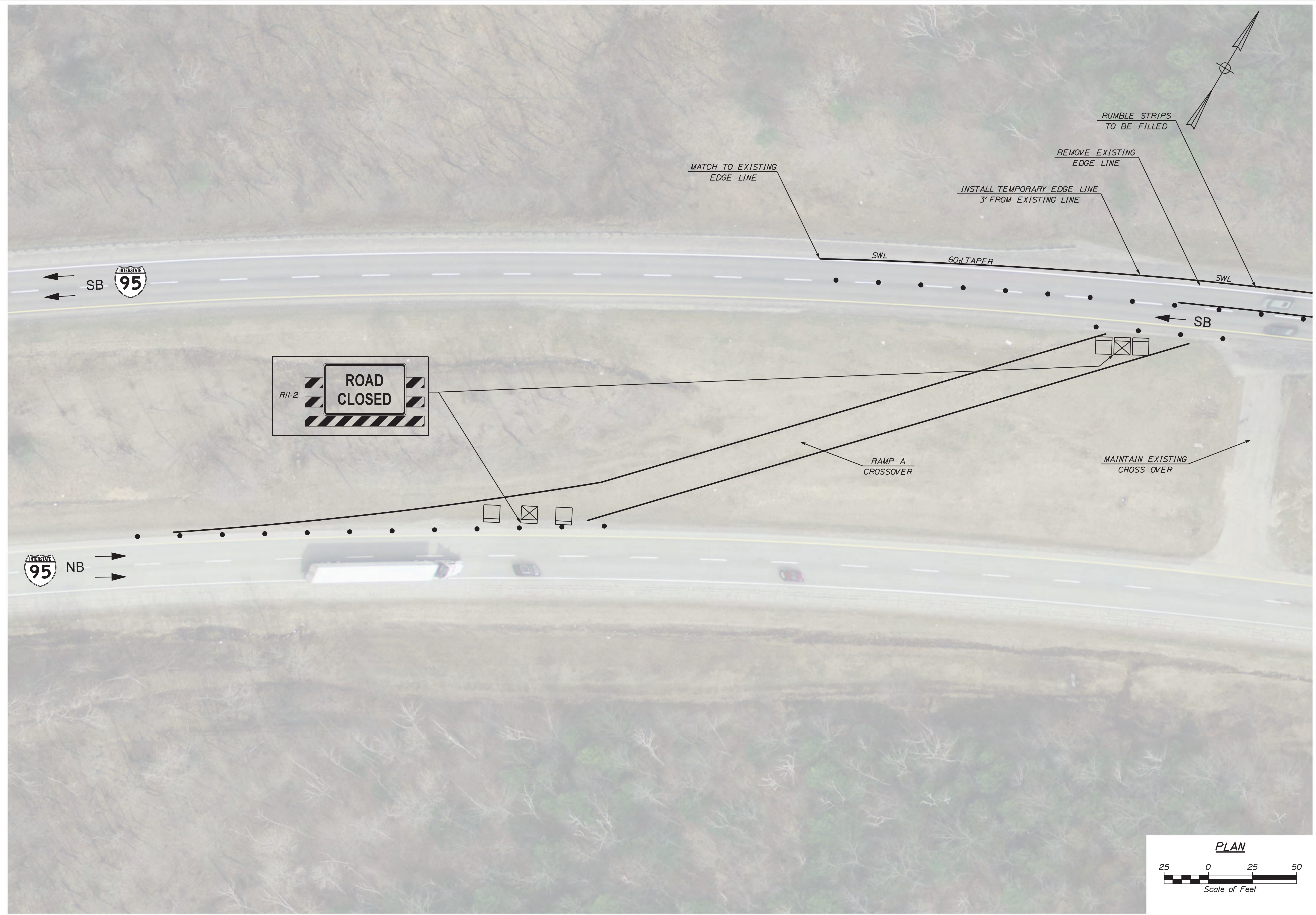
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I-95 NORTHBOUND
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**I-95 NORTHBOUND
WATERVILLE
TCP PHASE 2A
(SHEET 1 OF 4)**

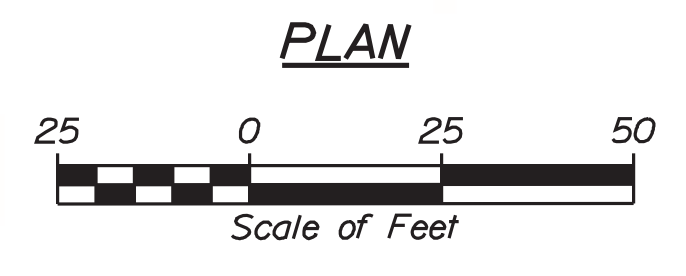
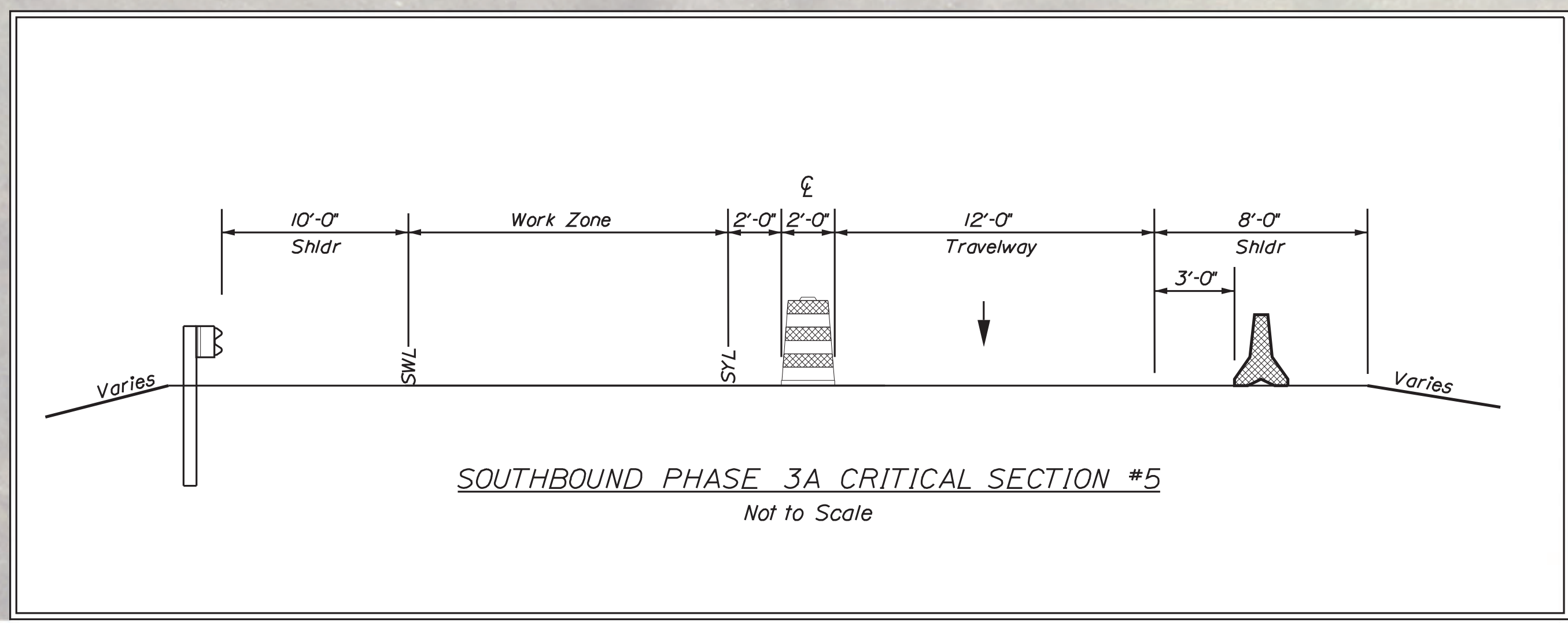
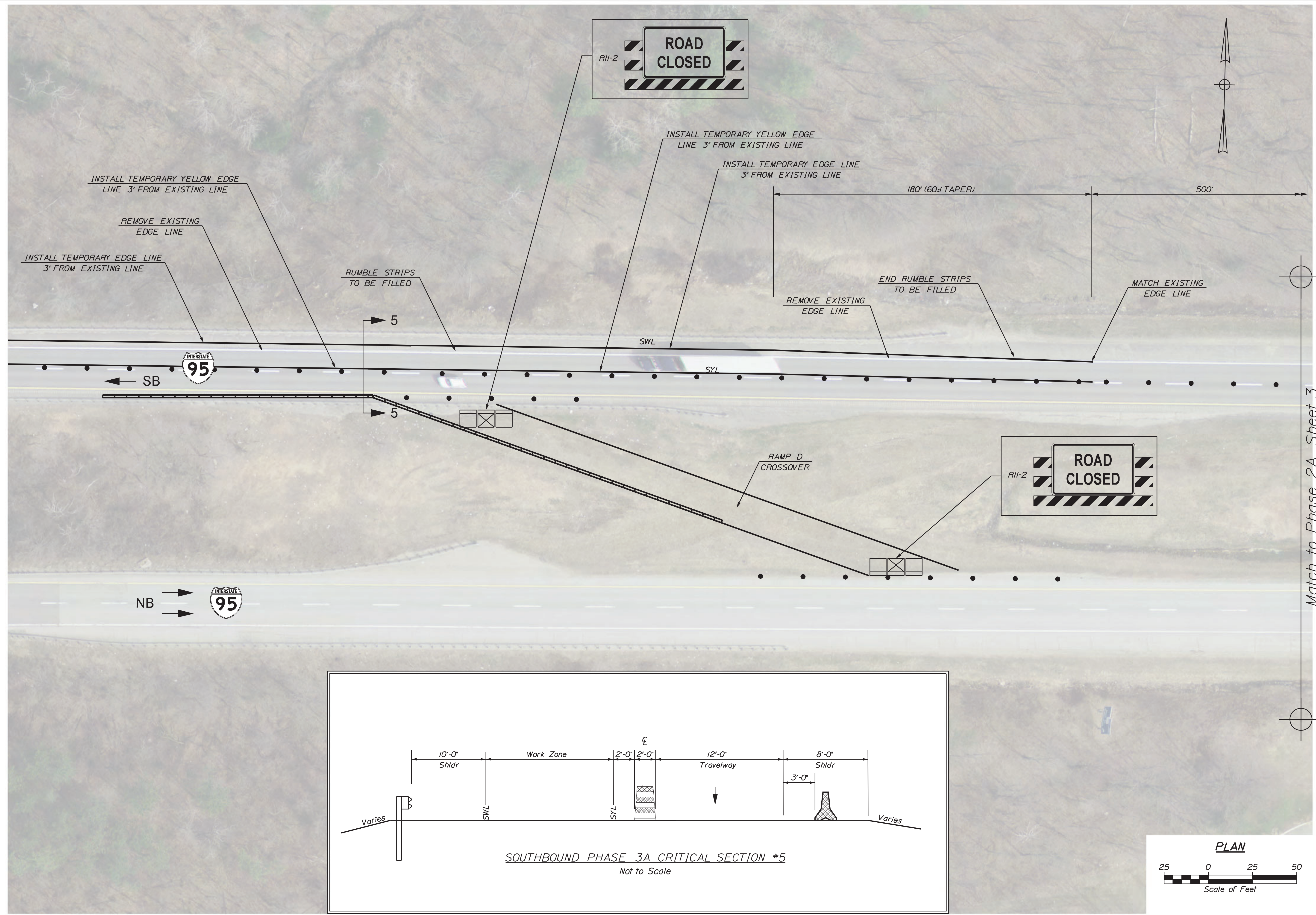
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BRIDGE PLANS



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I-95 NORTHBOUND
WATERVILLE
TCP PHASE 2A
(SHEET 2 OF 4)

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Match to Phase 2A Sheet 3

Match to Phase 2A Sheet 2

Match to Phase 2A Sheet 4



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BRIDGE PLANS



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I-95 NORTHBOUND
WATERVILLE
TCP PHASE 2A
(SHEET 3 OF 4)

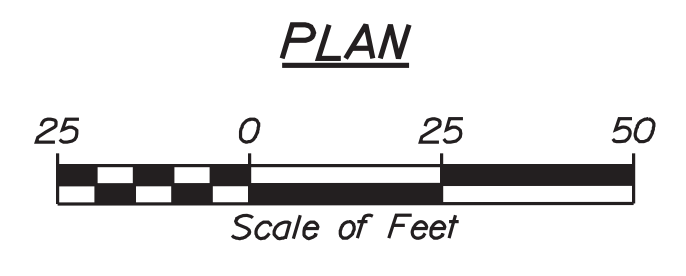
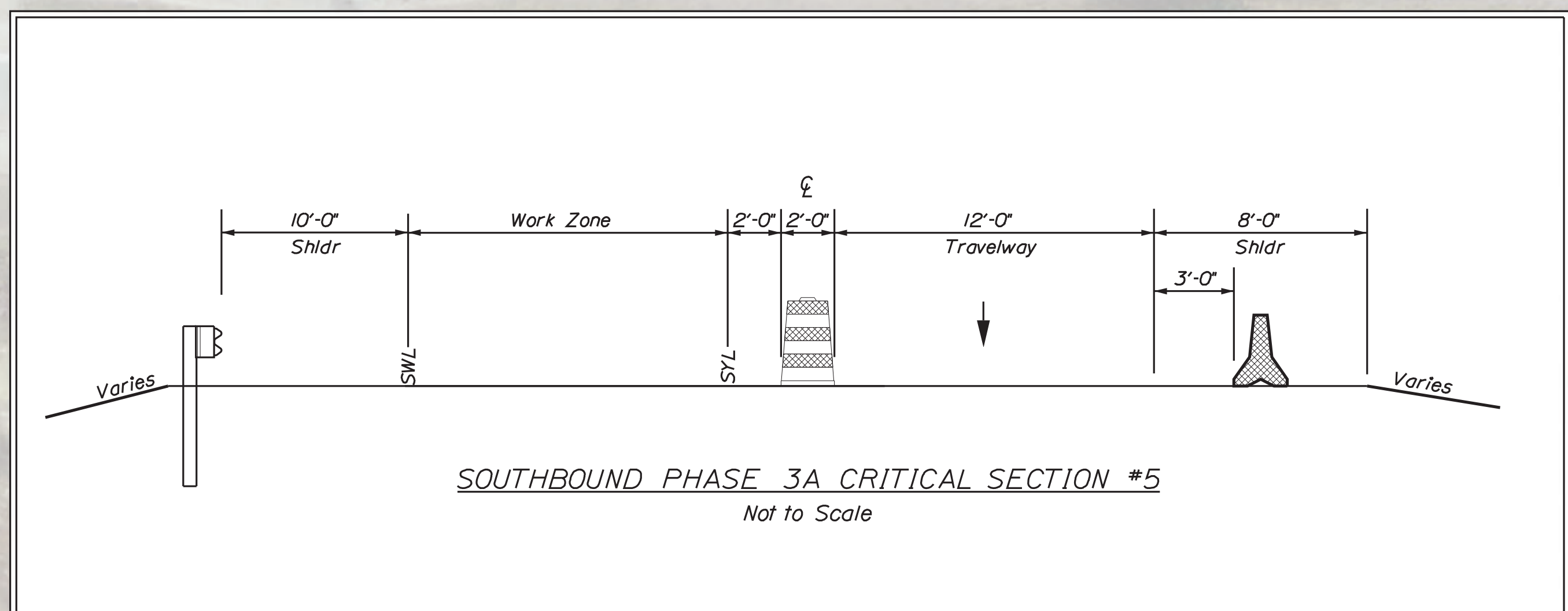
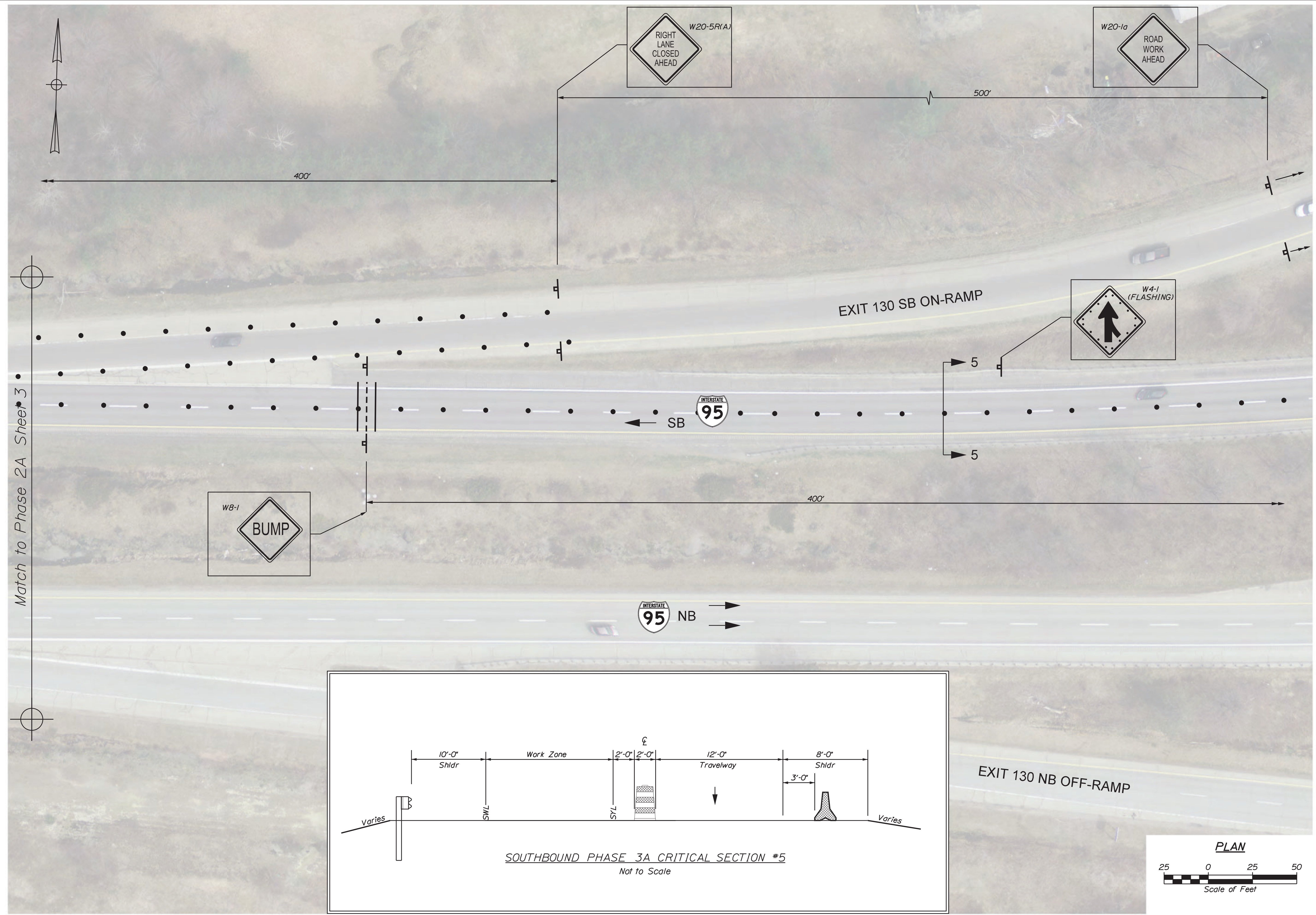
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STATE OF MAINE
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2506100
WIN
25061.00
BRIDGE PLANS



PROJ. MANAGER	T. HAMEL	BY	DATE
DESIGN DETAILED	MLC	JAR	11/30/2022
CHECKED/REVIEWED	MOS		11/30/2022
DESIGN DETAILED			
REVISIONS	1		
REVISIONS	2		
REVISIONS	3		
REVISIONS	4		
FIELD CHANGES			

I-95 NORTHBOUND
WATERVILLE
TCP PHASE 2A
(SHEET 4 OF 4)

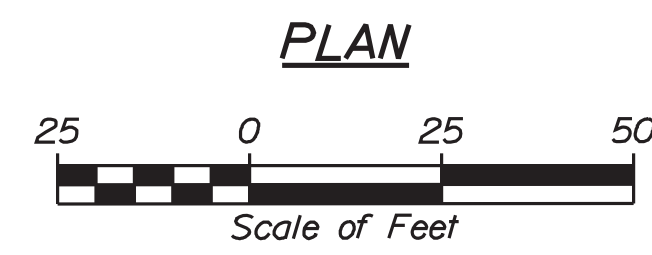
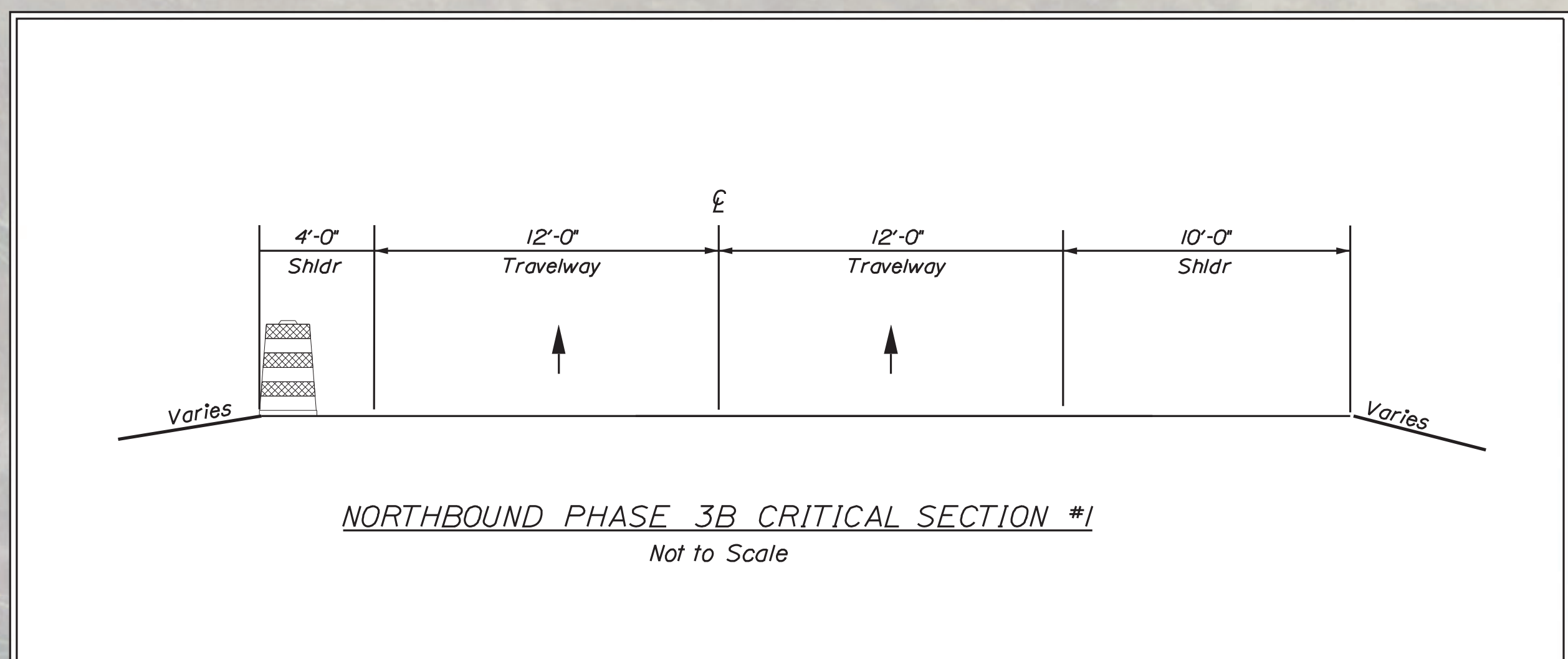
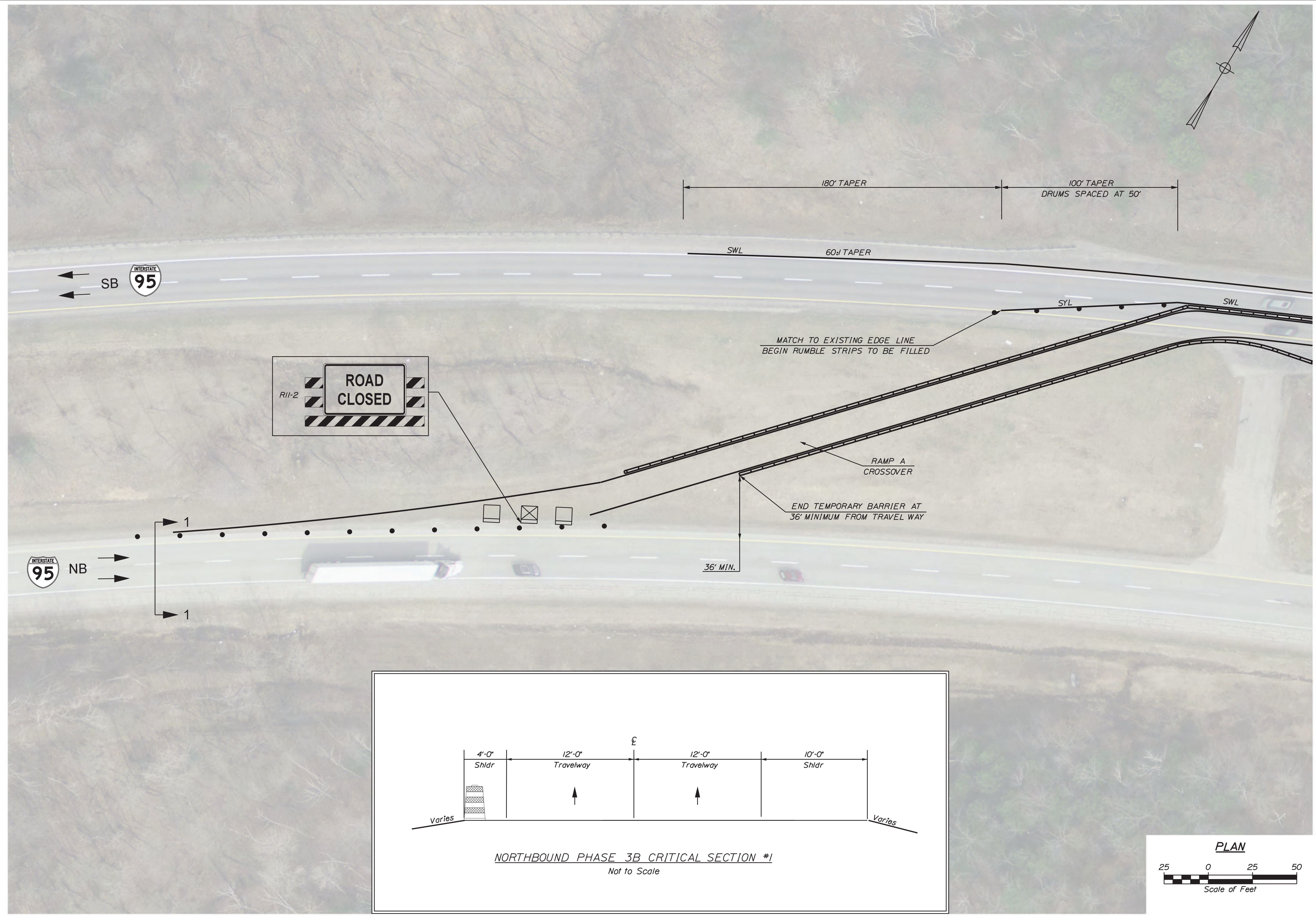
SHEET NUMBER
21
OF 27

Date: 11/30/2022

Username: jrobert

Division: HIGHWAY

Filename: ... \MSTA\022_TCP_Phase2B_01.dgn



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BRIDGE PLANS



PROJ. MANAGER	T. HAMEL	BY	DATE
DESIGN DETAILED	MJC	JAR	1/30/2022
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DESIGN DETAILED			
REVISIONS 1			
REVISIONS 2			
REVISIONS 3			
REVISIONS 4			
FIELD CHANGES			

I-95 NORTHBOUND
WATERVILLE
TCP PHASE 2B
(SHEET 1 OF 4)

SHEET NUMBER

22

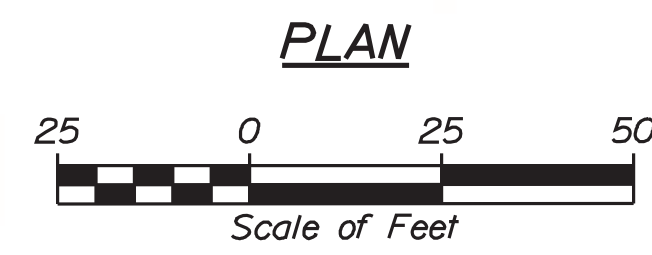
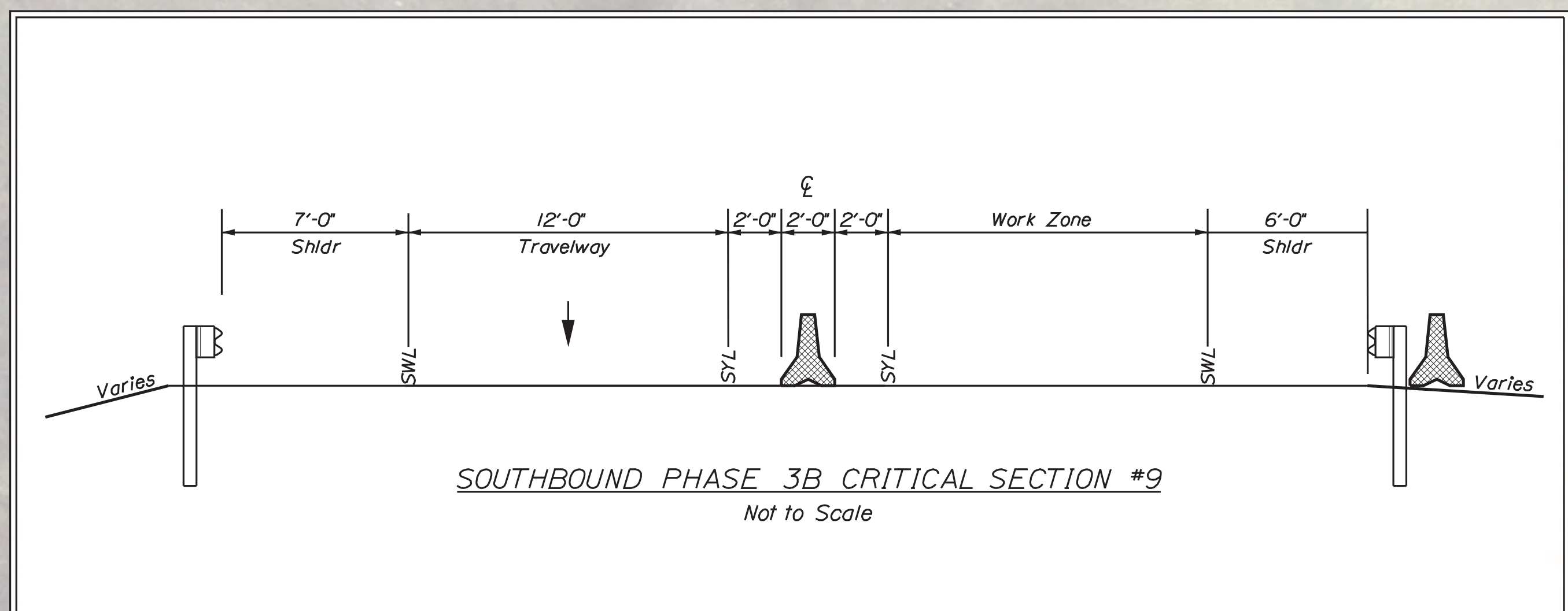
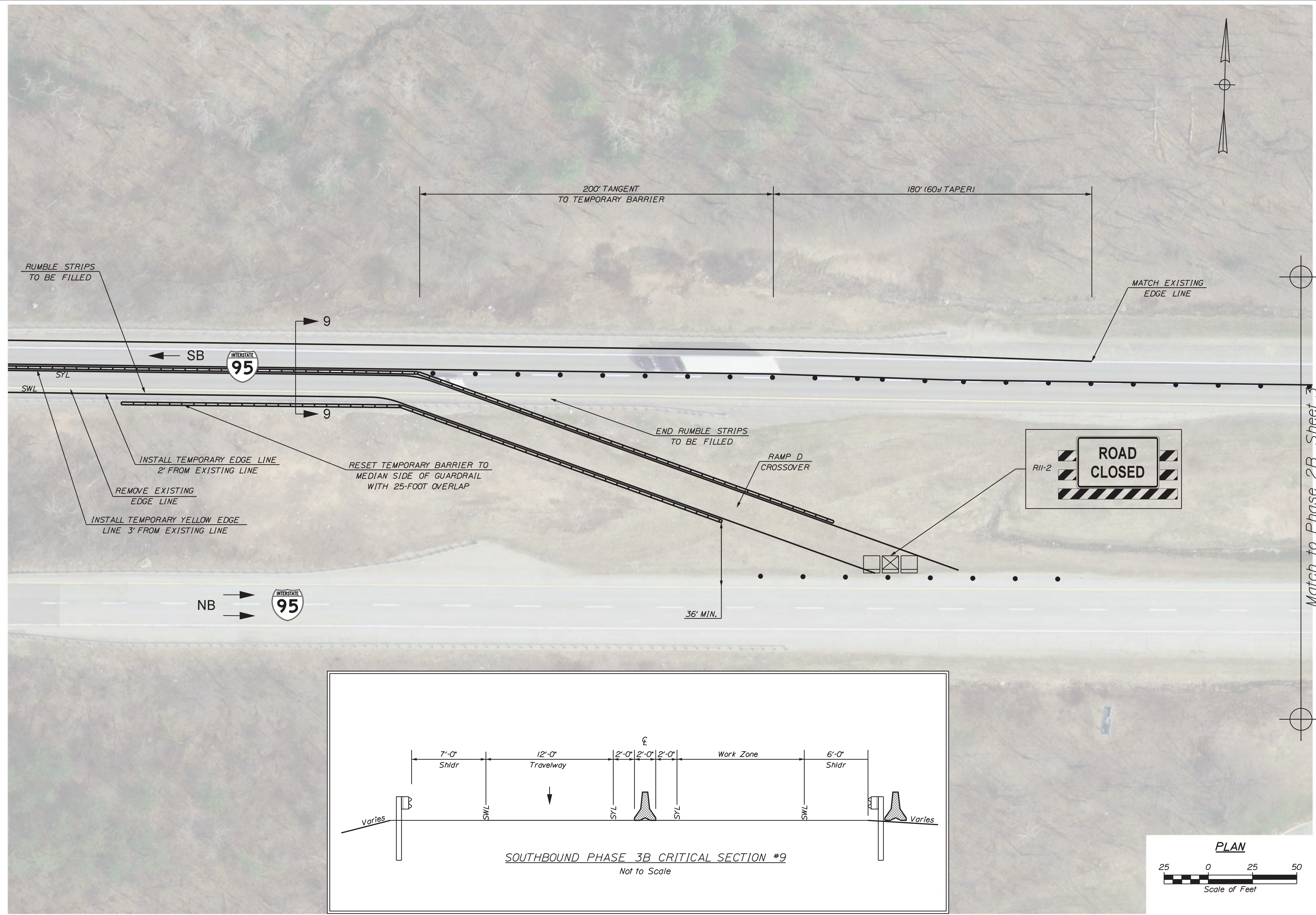
OF 27

Date: 11/30/2022

Username: jrobert

Division: HIGHWAY

Filename: ... \MSTA\023_TCP_Phase2B_02.dgn



STATE OF MAINE
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2506100
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BRIDGE PLANS

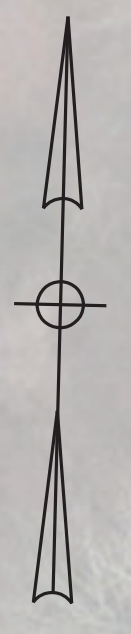
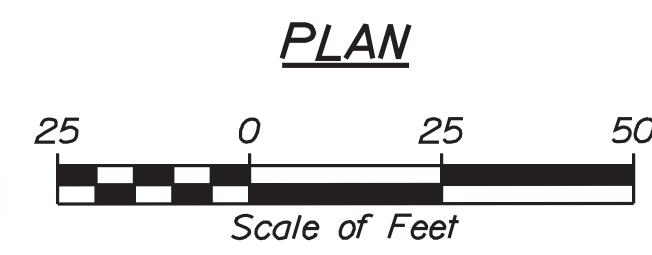
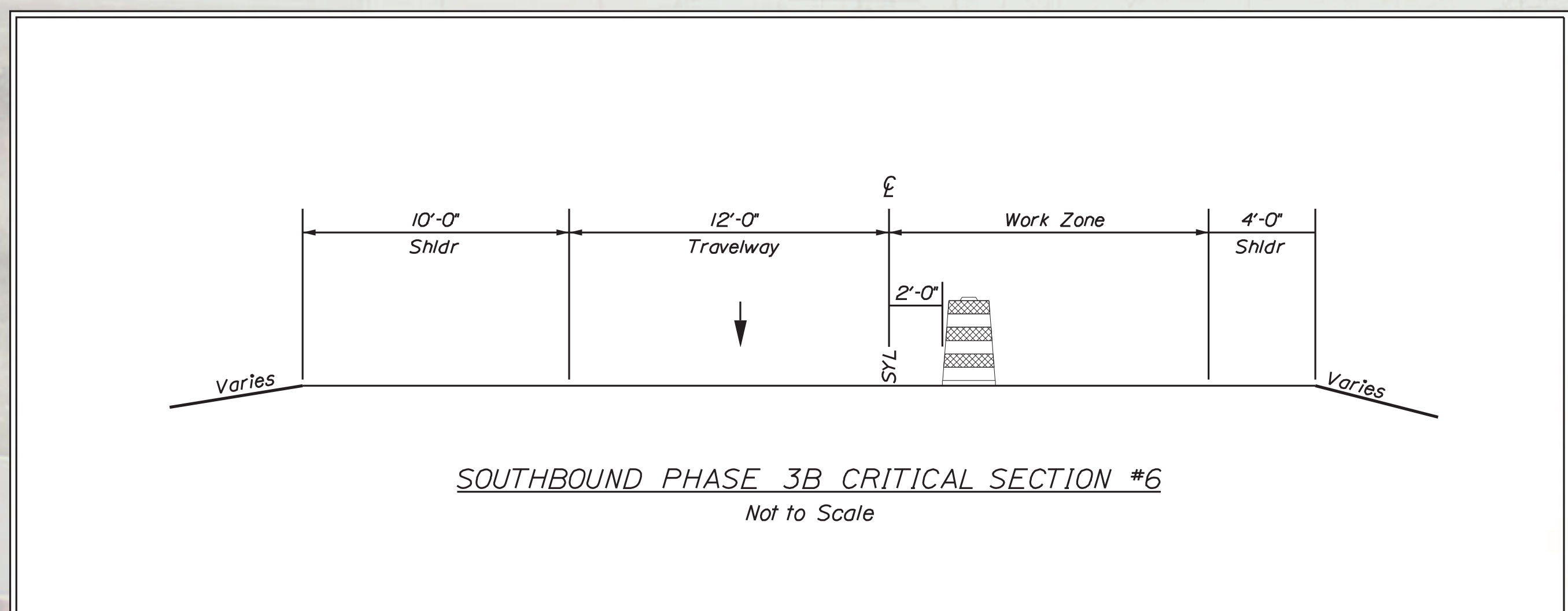


PROJ. MANAGER	T. HAMEL	BY	DATE
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FIELD CHANGES			

I-95 NORTHBOUND
WATERVILLE
TCP PHASE 2B
(SHEET 2 OF 4)

SHEET NUMBER
23
OF 27

Match to Phase 2B Sheet 3



Match to Phase 2B Sheet 2

Match to Phase 2B Sheet 4

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION
2506100
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BRIDGE PLANS



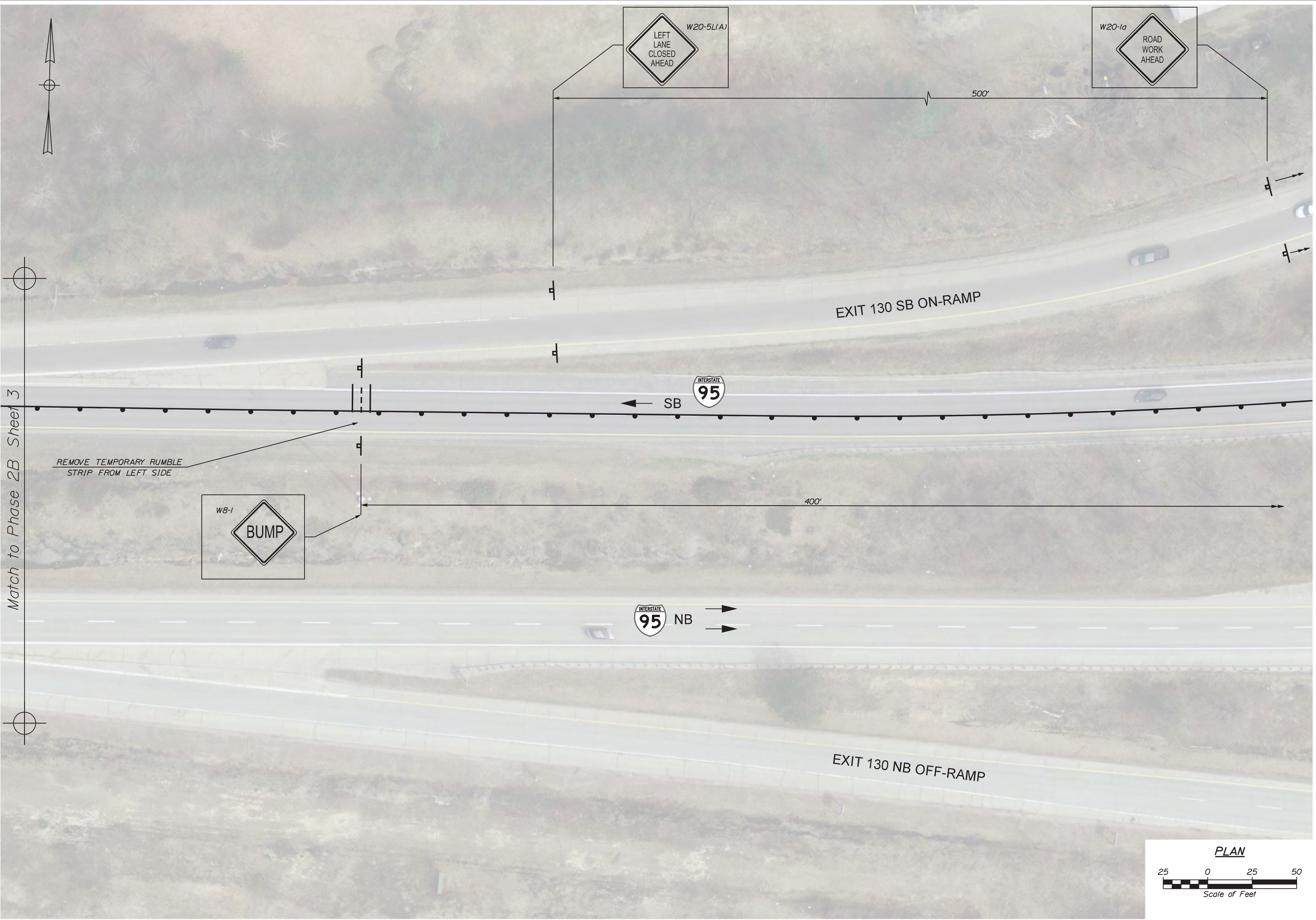
PROJ. MANAGER	T. HAMEL	BY	DATE
DESIGN DETAILED	MLC	JAR	1/30/2022
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I-95 NORTHBOUND
WATERVILLE
TCP PHASE 2B
(SHEET 3 OF 4)

SHEET NUMBER

24

OF 27

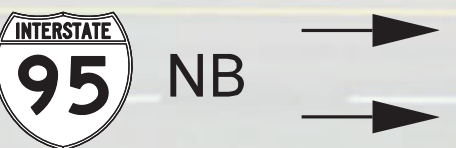
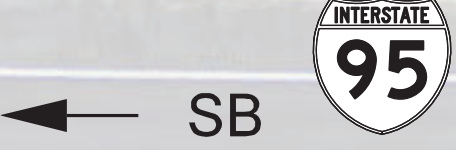


Match to Phase 2B Sheet 3

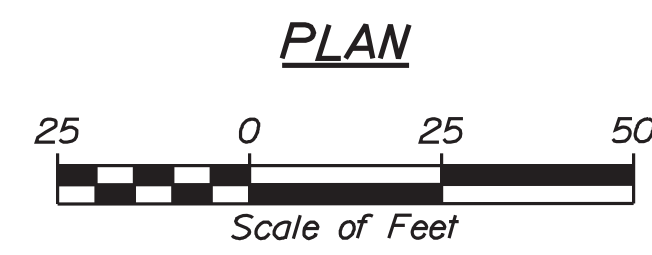
REMOVE TEMPORARY RUMBLE STRIP FROM LEFT SIDE



EXIT 130 SB ON-RAMP



EXIT 130 NB OFF-RAMP



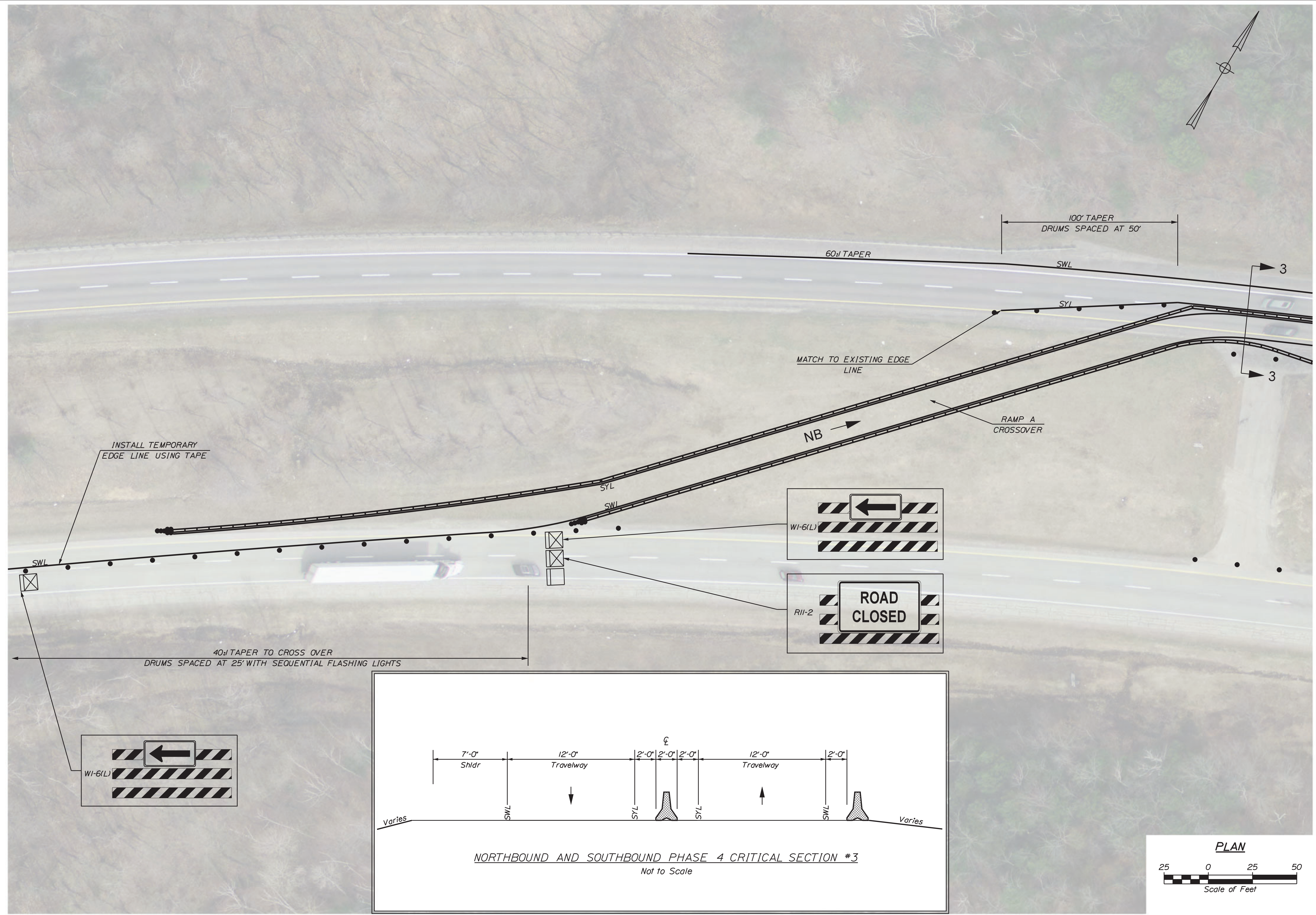
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I-95 NORTHBOUND
WATERVILLE
TCP PHASE 2B
(SHEET 4 OF 4)

SHEET NUMBER
25
OF 27



INSTALL TEMPORARY
EDGE LINE USING TAPE

MATCH TO EXISTING EDGE
LINE

100' TAPER
DRUMS SPACED AT 50'

60' TAPER

SWL

SYL

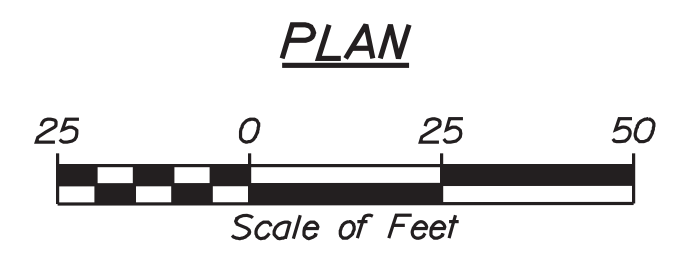
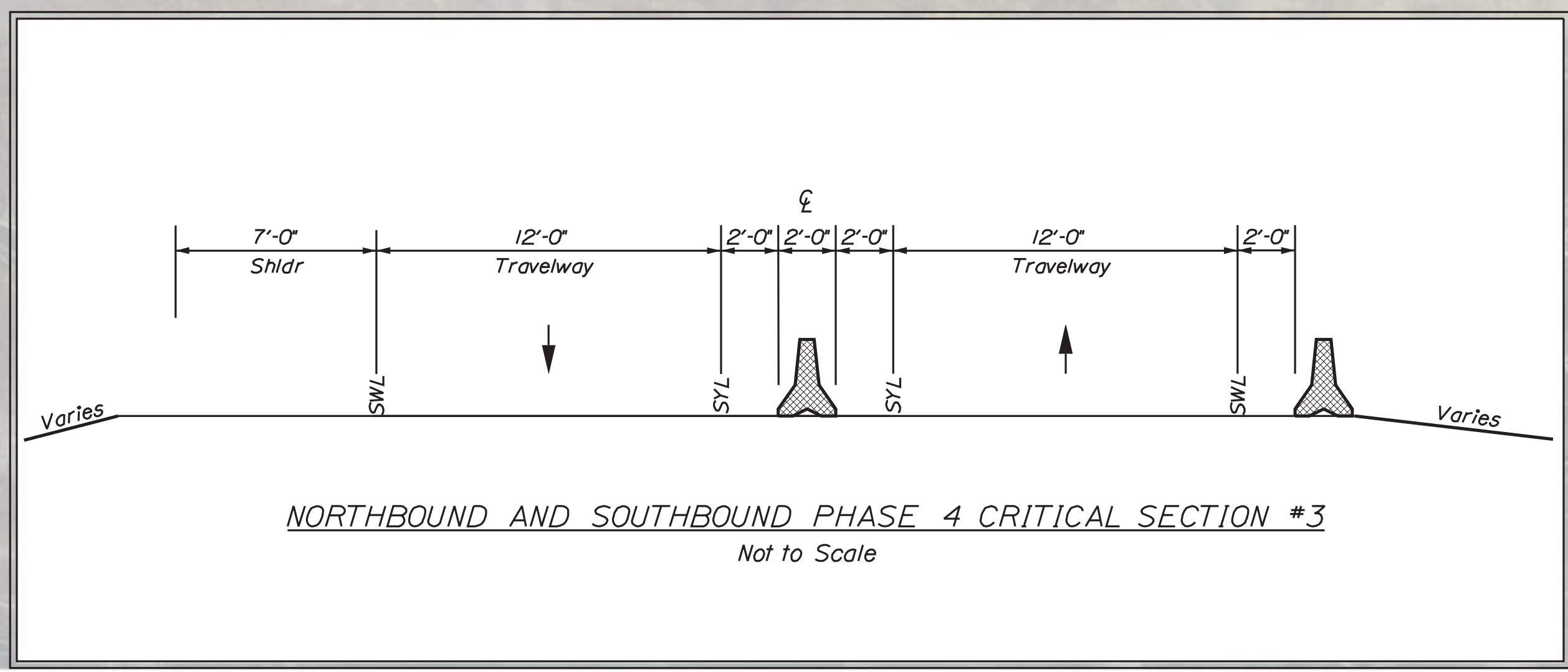
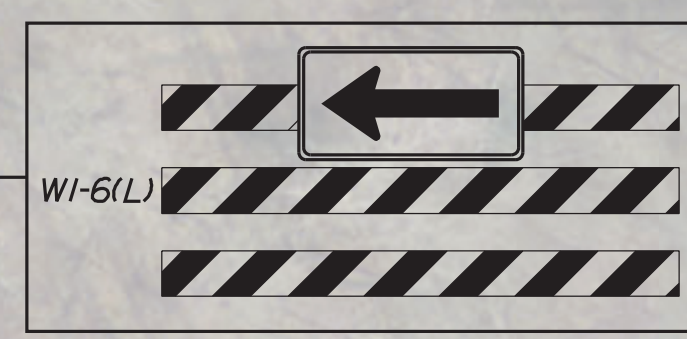
NB

RAMP A
CROSSOVER

SYL

SWL

40' TAPER TO CROSS OVER
DRUMS SPACED AT 25' WITH SEQUENTIAL FLASHING LIGHTS



PROJ. MANAGER	T. HAMEL	BY	DATE
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REVISIONS 4			
FIELD CHANGES			

I-95 NORTHBOUND
WATERVILLE
TCP PHASE 3
(SHEET 1 OF 2)

SHEET NUMBER

26

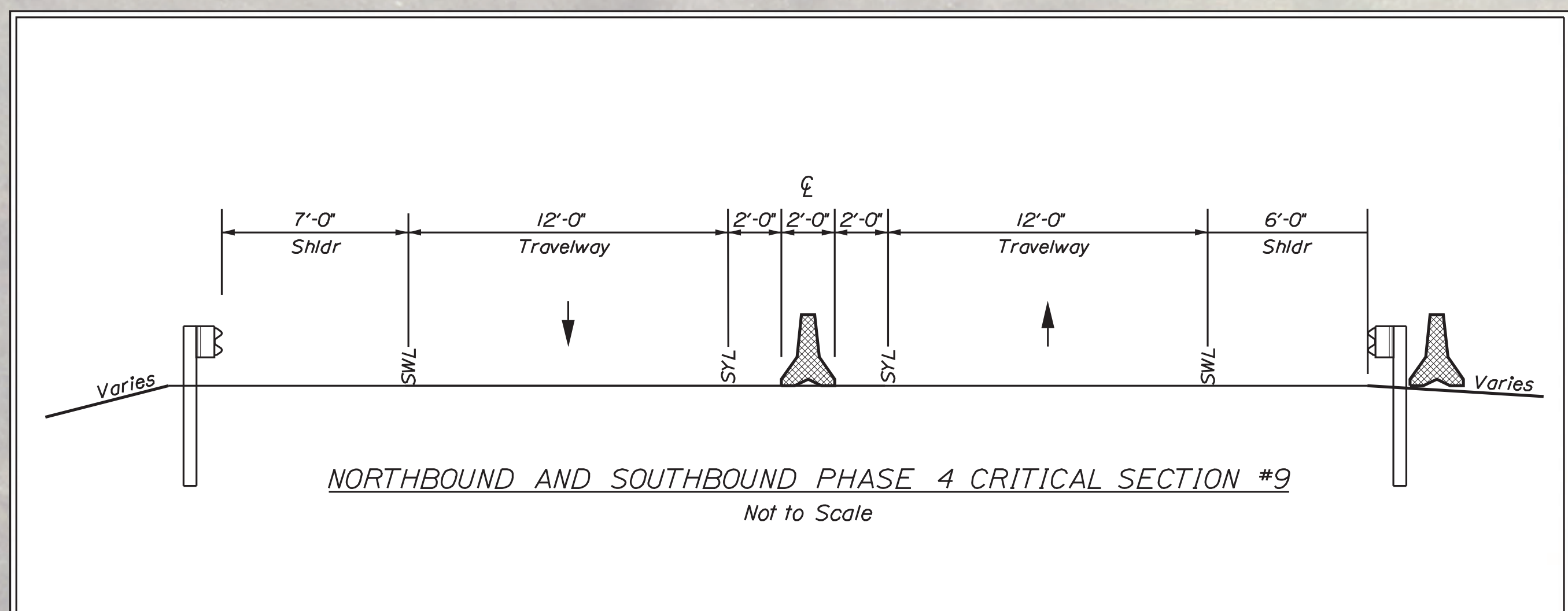
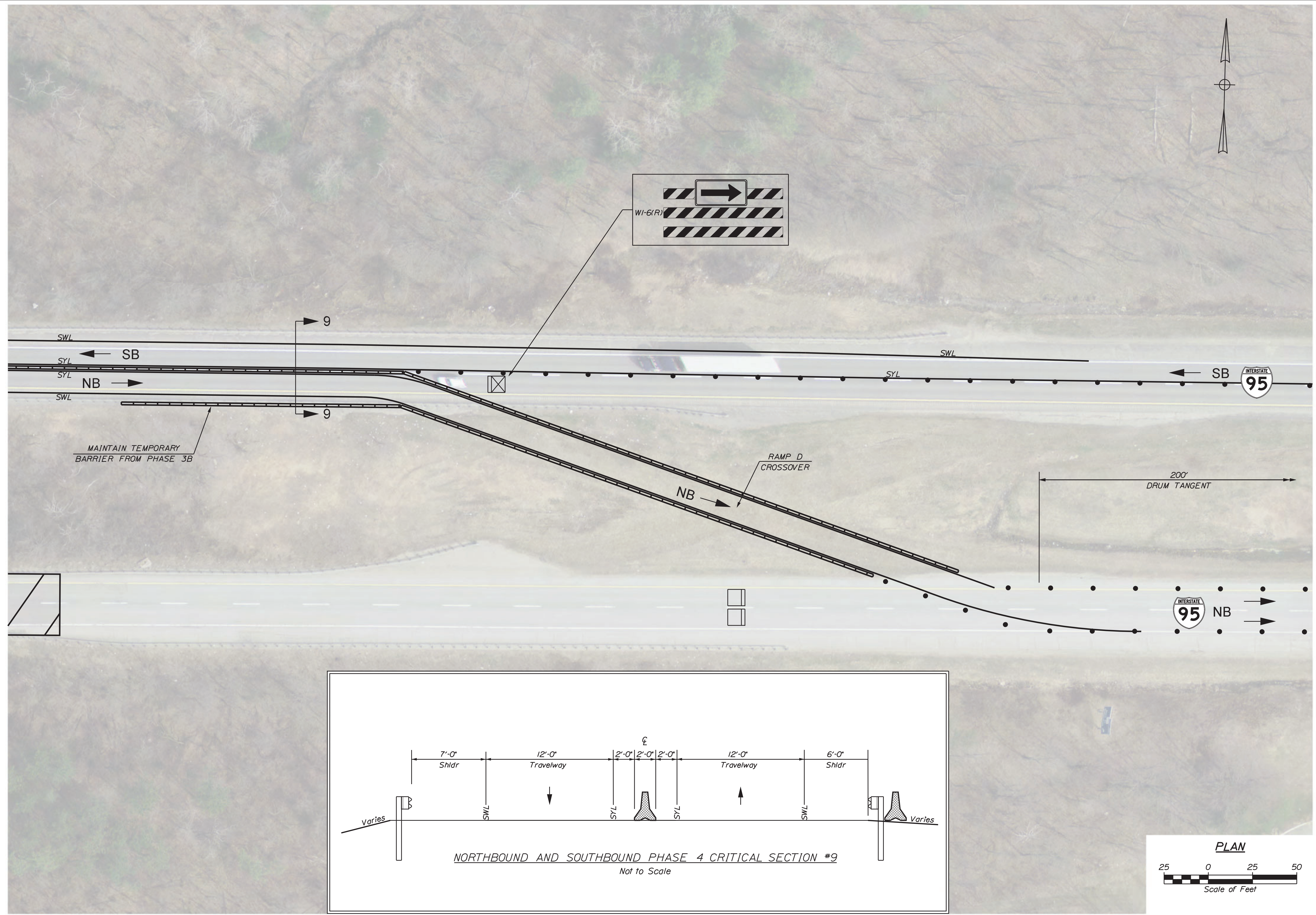
OF 27

Date: 11/30/2022

Username: jrobert

Division: HIGHWAY

Filename: ... \MSTA\027_TCP_Phase3_02.dgn



STATE OF MAINE
DEPARTMENT OF TRANSPORTATION
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25061.00
BRIDGE PLANS



PROJ. MANAGER	T. HANEL	BY	DATE
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REVISIONS			
REVISIONS			
REVISIONS			
FIELD CHANGES			

I-95 NORTHBOUND
WATERVILLE
TCP PHASE 3
(SHEET 2 OF 2)

SHEET NUMBER

27

OF 27