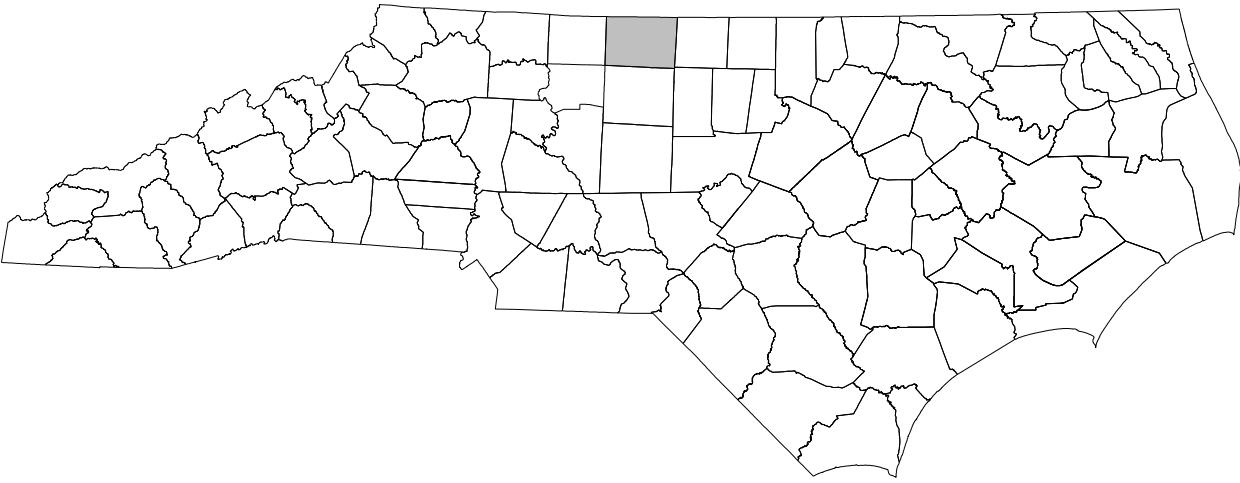


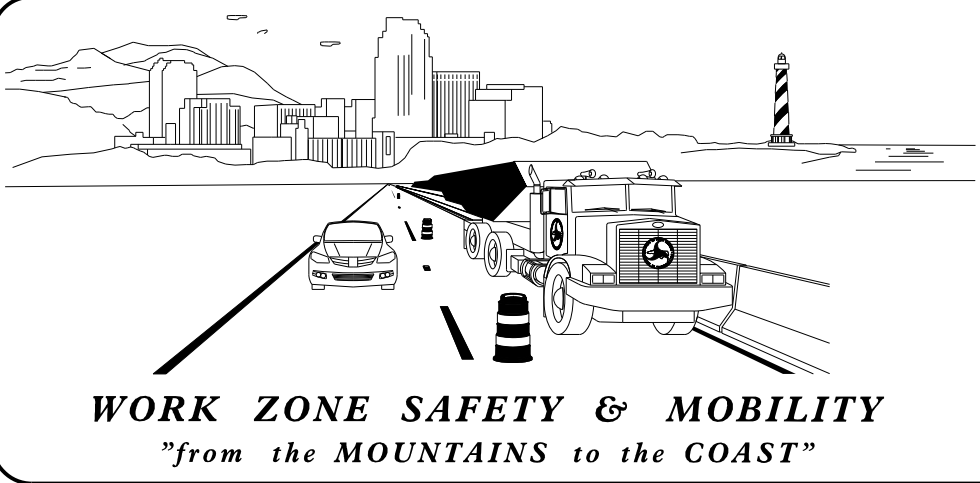
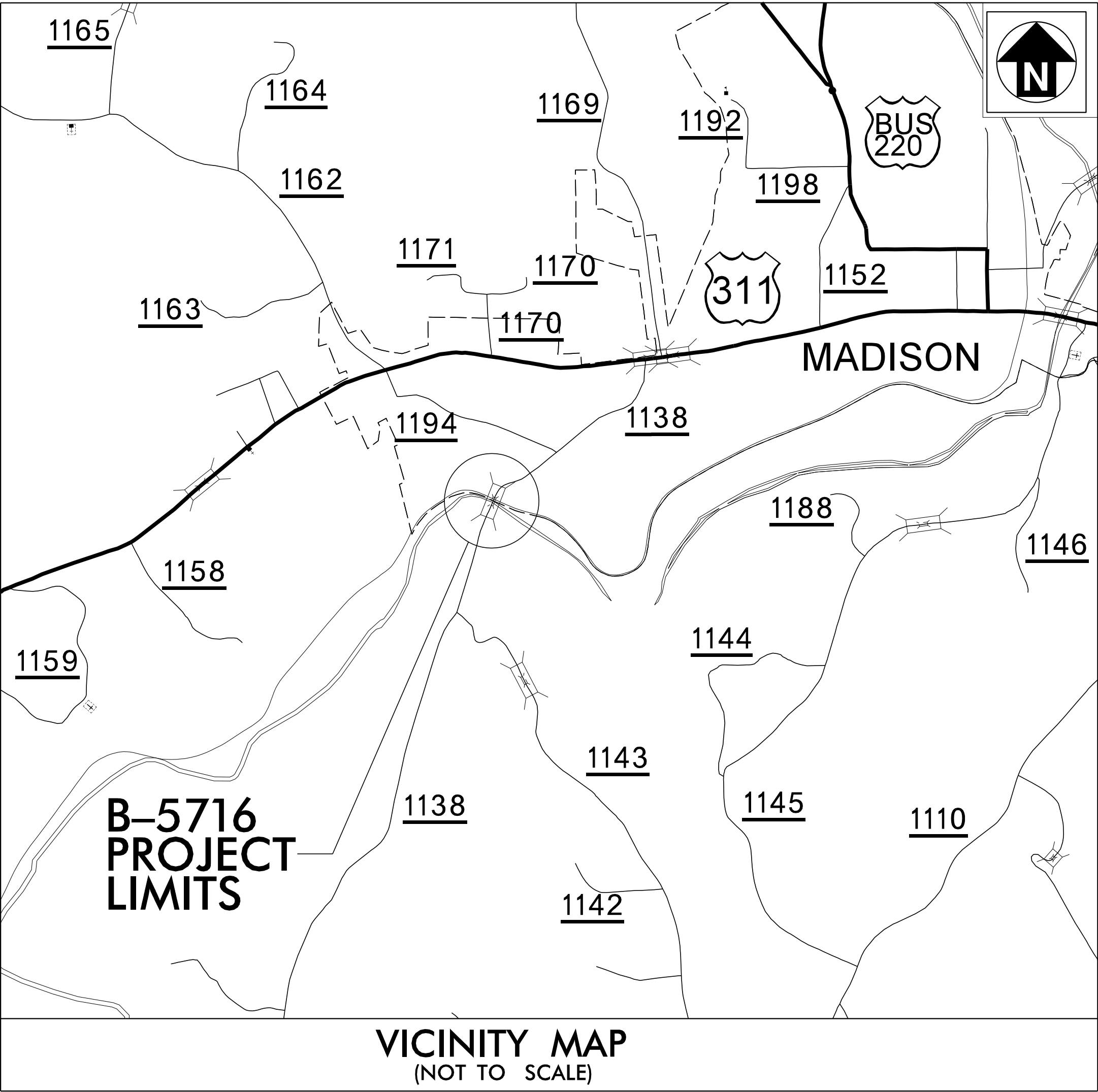
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STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

TRANSPORTATION MANAGEMENT PLAN
ROCKINGHAM COUNTY

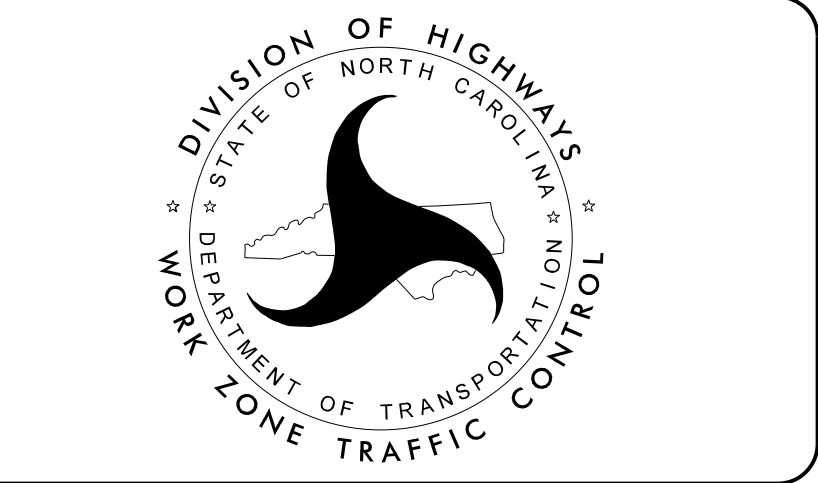


LOCATION: BRIDGE NO. 140
OVER DAN RIVER ON SR
1138 (LINDSEY BRIDGE ROAD)



PLANS PREPARED FOR THE NCDOT BY:
M MOTT MACDONALD
M MOTT MACDONALD
MOTT MACDONALD I & E, LLC
1101 HAYNES STREET, SUITE 101
RALEIGH, NC 27604
NC LICENSE NO. F-0669
LORI D. STOCHKO, PE
PRINCIPAL PROJECT ENGINEER

NCDOT CONTACT:
DANIEL DAGENHART
DIVISION BRIDGE
PROGRAM MANAGER



INDEX OF SHEETS

SHEET NO.	TITLE
TMP-1	TITLE SHEET, VICINITY MAP, AND INDEX OF SHEETS
TMP-1A	LIST OF APPLICABLE ROADWAY STANDARD DRAWINGS AND LEGEND
TMP-1B - 1C	TRANSPORTATION OPERATIONS PLAN: GENERAL NOTES AND LOCAL NOTES
TMP-2	PORTABLE CONCRETE BARRIER AT TEMPORARY SHORING LOCATIONS
TMP-2A	TEMPORARY SHORING NOTES
TMP-2B - 2C	DETOUR
TMP-2D	SPECIAL SIGN DESIGN
TMP-3	TEMPORARY TRAFFIC CONTROL PHASING
TMP-4 - 5	TEMPORARY TRAFFIC CONTROL PHASE I DETAILS
TMP-6 - 7	TEMPORARY TRAFFIC CONTROL PHASE II DETAILS
TMP-8 - 9	TEMPORARY TRAFFIC CONTROL PHASE III DETAILS
TMP-10 - 11	TEMPORARY TRAFFIC CONTROL PHASE IV DETAILS

DOCUMENT NOT CONSIDERED FINAL
UNLESS ALL SIGNATURES COMPLETED

APPROVED: **Lori Stouchko**
DATE: 09-Jul-2025
SEAL
NORTH CAROLINA
PROFESSIONAL
SEAL
034437
ENGINEER
LORI D. STOCHKO

SHEET NO.

TMP-1

B-5716

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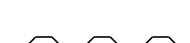
ROADWAY STANDARD DRAWINGS

THE FOLLOWING ROADWAY STANDARDS AS SHOWN IN "ROADWAY STANDARD DRAWINGS" - N.C. DEPARTMENT OF TRANSPORTATION - RALEIGH, N.C., DATED JANUARY 2024 ARE APPLICABLE TO THIS PROJECT AND BY REFERENCE HEREBY ARE CONSIDERED A PART OF THESE PLANS:

STD. NO.	TITLE
1101.01	WORK ZONE ADVANCE WARNING SIGNS
1101.02	TEMPORARY LANE CLOSURES
1101.03	TEMPORARY ROAD CLOSURES
1101.04	TEMPORARY SHOULDER CLOSURES
1101.05	WORK ZONE VEHICLE ACCESSES
1101.06	WARNING SIGNS FOR BLASTING ZONES
1101.11	TRAFFIC CONTROL DESIGN TABLES
1110.01	STATIONARY WORK ZONE SIGNS
1110.02	PORTABLE WORK ZONE SIGNS
1115.01	FLASHING ARROW BOARDS
1130.01	DRUMS
1135.01	CONES
1145.01	BARRICADES
1150.01	FLAGGERS
1160.01	TEMPORARY CRASH CUSHION
1165.01	TRUCK MOUNTED ATTENUATOR
1170.01	PORTABLE CONCRETE BARRIER
1180.01	SKINNY DRUMS
1205.01	PAVEMENT MARKINGS - LINE TYPES AND OFFSETS
1205.02	PAVEMENT MARKINGS - TWO-LANE AND MULTI-LANE ROADWAYS
1205.03	PAVEMENT MARKINGS - EXIT AND ENTRANCE RAMPs
1205.04	PAVEMENT MARKINGS - INTERSECTIONS
1205.05	PAVEMENT MARKINGS - TURN LANES
1205.06	PAVEMENT MARKINGS - LANE DROPS
1205.07	PAVEMENT MARKINGS - PEDESTRIAN CROSSWALKS
1205.08	PAVEMENT MARKINGS - SYMBOLS AND WORD MESSAGES
1205.09	PAVEMENT MARKINGS - PAINTED ISLANDS
1205.10	PAVEMENT MARKINGS - SCHOOL AREAS
1205.11	PAVEMENT MARKINGS - RAILROAD CROSSINGS
1205.12	PAVEMENT MARKINGS - BRIDGES
1205.13	PAVEMENT MARKINGS - LANE REDUCTIONS
1205.14	PAVEMENT MARKINGS - ROUNDABOUTS
1205.15	PAVEMENT MARKINGS - SUPERSTREETS
1205.16	PAVEMENT MARKINGS - BICYCLE FACILITIES
1205.17	PAVEMENT MARKINGS - SIDE-BY-SIDE/ADJACENT ON/OFF RAMPs
1250.01	RAISED PAVEMENT MARKERS - INSTALLATION SPACING
1251.01	RAISED PAVEMENT MARKERS - PERMANENT AND TEMPORARY
1261.01	GUARDRAIL AND BARRIER DELINEATORS - INSTALLATION SPACING
1261.02	GUARDRAIL AND BARRIER DELINEATORS - TYPES AND MOUNTING
1262.01	GUARDRAIL END DELINEATION
1264.01	OBJECT MARKERS - TYPES
1264.02	OBJECT MARKERS - INSTALLATION
1266.01	RAISED PAVEMENT MARKERS - TUBULAR MARKERS
1267.01	FLEXIBLE DELINEATORS - INSTALLATION
1267.02	FLEXIBLE DELINEATORS - SPACING TABLES
1267.03	FLEXIBLE DELINEATORS - INTERCHANGE PLACEMENT

LEGEND

GENERAL

-  DIRECTION OF TRAFFIC FLOW
-  DIRECTION OF PEDESTRIAN TRAFFIC FLOW
-  EXIST. PVMT.
-  NORTH ARROW
-  PROPOSED PVMT.
-  TEMP. SHORING (LOCATION PURPOSES ONLY)

 WORK AREA

 REMOVAL

 TEMPORARY PAVEMENT

 WEDGING







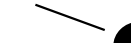


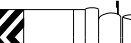

SIGNALS

-  EXISTING
-  PROPOSED
-  TEMPORARY




PAVEMENT MARKINGS

-  EXISTING LINES
-  TEMPORARY LINES




TRAFFIC CONTROL DEVICES

-  BARRICADE (TYPE III)
-  CONE
-  DRUM  SKINNY DRUM  TUBULAR MARKER
-  TEMPORARY CRASH CUSHION
-  FLASHING ARROW BOARD
-  FLAGGER
-  LAW ENFORCEMENT
-  TRUCK MOUNTED ATTENUATOR (TMA)
-  CHANGEABLE MESSAGE SIGN

TEMPORARY SIGNING

-  PORTABLE SIGN
-  STATIONARY SIGN
-  STATIONARY OR PORTABLE SIGN

PAVEMENT MARKERS

-  CRYSTAL/CRYSTAL
-  CRYSTAL/RED
-  YELLOW/YELLOW

PAVEMENT MARKING SYMBOLS

-    PAVEMENT MARKING SYMBOLS

TEMPORARY PAVEMENT MARKING

PAINT (4")


- P1 WHITE EDGELINE
- P2 WHITE SOLID LANE LINE
- P5 2 FT - 6 FT/SP WHITE MINISKIP
- P13 YELLOW DOUBLE CENTER

PAINT (24")


P61 WHITE STOPBAR

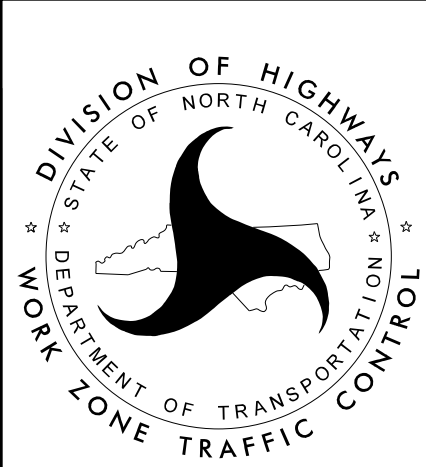
COLD APPLIED PLASTIC - TYPE 4 (4")

- C1 WHITE EDGELINE
- C13 YELLOW DOUBLE CENTER

APPROVED: 

DATE: 10-Jun-2025





ROADWAY STANDARD
DRAWINGS & LEGEND

DOCUMENT NOT CONSIDERED FINAL
UNLESS ALL SIGNATURES COMPLETED

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GENERAL NOTES

CHANGES MAY BE REQUIRED WHEN PHYSICAL DIMENSIONS IN THE DETAIL DRAWINGS, STANDARD DETAILS, AND ROADWAY DETAILS ARE NOT ATTAINABLE TO MEET FIELD CONDITIONS OR RESULT IN DUPLICATE OR UNDESIRE OVERLAPPING OF DEVICES. MODIFICATION MAY INCLUDE: MOVING, SUPPLEMENTING, COVERING, OR REMOVAL OF DEVICES AS DIRECTED BY THE ENGINEER.

THE FOLLOWING GENERAL NOTES APPLY AT ALL TIMES FOR THE DURATION OF THE CONSTRUCTION PROJECT EXCEPT WHEN OTHERWISE NOTED IN THE PLAN OR DIRECTED BY THE ENGINEER.

TIME RESTRICTIONS

A) DO NOT CLOSE OR NARROW TRAVEL LANES AS FOLLOWS:

ROAD NAME	DAY AND TIME RESTRICTIONS
LINDSEY BRIDGE RD AND -L	MONDAY THRU SUNDAY 6:00 AM TO 9:00 A.M. AND 4:00 PM TO 7:00 P.M.

B) DO NOT CLOSE OR NARROW TRAVEL LANES DURING HOLIDAYS AND SPECIAL EVENTS AS FOLLOWS:

ROAD NAME

LINDSEY BRIDGE RD AND -L-

HOLIDAY

- FOR ANY UNEXPECTED OCCURRENCE THAT CREATES UNUSUALLY HIGH TRAFFIC VOLUMES, AS DIRECTED BY THE ENGINEER.
- FOR NEW YEAR'S, BETWEEN THE HOURS OF 6:00 A.M. DECEMBER 31st TO 7:00 P.M. JANUARY 2ND. IF NEW YEAR'S DAY IS ON A FRIDAY, SATURDAY, SUNDAY, OR MONDAY THEN UNTIL 7:00 P.M. THE FOLLOWING TUESDAY.
- FOR EASTER, BETWEEN THE HOURS OF 6:00 A.M. THURSDAY AND 7:00 P.M. MONDAY.
- FOR MEMORIAL DAY, BETWEEN THE HOURS OF 6:00 P.M. FRIDAY TO 7:00 P.M. TUESDAY.
- FOR INDEPENDENCE DAY, BETWEEN THE HOURS OF 6:00 A.M. THE DAY BEFORE INDEPENDENCE DAY AND 7:00 P.M. THE DAY AFTER INDEPENDENCE DAY.

IF INDEPENDENCE DAY IS ON A FRIDAY, SATURDAY, SUNDAY OR MONDAY THEN BETWEEN THE HOURS OF 6:00 A.M. THE THURSDAY BEFORE INDEPENDENCE DAY AND 7:00 P.M. THE TUESDAY AFTER INDEPENDENCE DAY.
- FOR LABOR DAY, BETWEEN THE HOURS OF 6:00 A.M. FRIDAY AND 7:00 P.M. TUESDAY.
- FOR THANKSGIVING DAY, BETWEEN THE HOURS OF 6:00 A.M. TUESDAY TO 7:00 P.M. MONDAY.
- FOR CHRISTMAS, BETWEEN THE HOURS OF 6:00 A.M. THE FRIDAY BEFORE THE WEEK OF CHRISTMAS DAY AND 7:00 P.M. THE FOLLOWING TUESDAY AFTER THE WEEK OF CHRISTMAS.

LANE AND SHOULDER CLOSURE REQUIREMENTS

- C) REMOVE LANE CLOSURE DEVICES FROM THE LANE WHEN WORK IS NOT BEING PERFORMED BEHIND THE LANE CLOSURE OR WHEN A LANE CLOSURE IS NO LONGER NEEDED OR AS DIRECTED BY THE ENGINEER.
- D) WHEN PERSONNEL AND/OR EQUIPMENT ARE WORKING WITHIN 15 FT OF AN OPEN TRAVEL LANE, CLOSE THE NEAREST OPEN SHOULDER USING ROADWAY STANDARD DRAWING NO. 1101.04 UNLESS THE WORK AREA IS PROTECTED BY BARRIER OR GUARDRAIL OR A LANE CLOSURE IS INSTALLED.
- E) WHEN PERSONNEL AND/OR EQUIPMENT ARE WORKING WITHIN 5 FT OF AN OPEN TRAVEL LANE ON AN UNDIVIDED FACILITY, CLOSE THE NEAREST OPEN TRAVEL LANE USING ROADWAY STANDARD DRAWING NO. 1101.02 UNLESS THE WORK AREA IS PROTECTED BY BARRIER OR GUARDRAIL.
- F) WHEN PERSONNEL AND/OR EQUIPMENT ARE WORKING WITHIN 10 FT OF AN OPEN TRAVEL LANE ON A DIVIDED FACILITY, CLOSE THE NEAREST OPEN TRAVEL LANE USING ROADWAY STANDARD DRAWING NO. 1101.02 UNLESS THE WORK AREA IS PROTECTED BY BARRIER OR GUARDRAIL.
- G) WHEN PERSONNEL AND/OR EQUIPMENT ARE WORKING WITHIN A LANE OF TRAVEL OF AN UNDIVIDED OR DIVIDED FACILITY, CLOSE THE LANE ACCORDING TO THE TRAFFIC CONTROL PLANS, ROADWAY STANDARD DRAWINGS, OR AS DIRECTED BY THE ENGINEER. CONDUCT THE WORK SO THAT ALL PERSONNEL AND/OR EQUIPMENT REMAIN WITHIN THE CLOSED TRAVEL LANE.
- H) DO NOT WORK SIMULTANEOUSLY WITHIN 15 FT ON BOTH SIDES OF AN OPEN TRAVELWAY, RAMP, OR LOOP WITHIN THE SAME LOCATION UNLESS PROTECTED WITH GUARDRAIL OR BARRIER.
- I) DO NOT INSTALL MORE THAN ONE LANE CLOSURE IN ANY ONE DIRECTION ON LINDSEY BRIDGE RD (-L-).

PAVEMENT EDGE DROP OFF REQUIREMENTS

- J) BACKFILL AT A 6:1 SLOPE UP TO THE EDGE AND ELEVATION OF EXISTING PAVEMENT IN AREAS ADJACENT TO AN OPEN TRAVEL LANE THAT HAS A DROP-OFF AS FOLLOWS:
- BACKFILL DROP-OFFS THAT EXCEED 2 INCHES ON ROADWAYS WITH POSTED SPEED LIMITS OF 45 MPH OR GREATER.
- BACKFILL DROP-OFFS THAT EXCEED 3 INCHES ON ROADWAYS WITH POSTED SPEED LIMITS LESS THAN 45 MPH.
- BACKFILL WITH SUITABLE COMPACTED MATERIAL, AS APPROVED BY THE ENGINEER, AT NO EXPENSE TO THE DEPARTMENT.
- K) DO NOT EXCEED A DIFFERENCE OF 2 INCHES IN ELEVATION BETWEEN OPEN LANES OF TRAFFIC FOR NOMINAL LIFTS OF 1.5 INCHES. INSTALL ADVANCE WARNING *UNEVEN LANES* SIGNS (W8-11) (500 FT) IN ADVANCE AND A MINIMUM OF ONCE EVERY HALF MILE THROUGHOUT THE UNEVEN AREA. TRAFFIC PATTERN ALTERATIONS

TRAFFIC PATTERN ALTERATIONS

- L) NOTIFY THE ENGINEER THIRTY (30) CALENDAR DAYS PRIOR TO ANY TRAFFIC PATTERN ALTERATION.

SIGNING

- M) INSTALL ADVANCE WORK ZONE WARNING SIGNS WHEN WORK IS WITHIN 40 FT FROM THE EDGE OF TRAVEL LANE AND NO MORE THAN THREE (3) DAYS PRIOR TO THE BEGINNING OF CONSTRUCTION.
- N) PROVIDE SIGNING AND DEVICES REQUIRED TO CLOSE THE ROAD ACCORDING TO THE ROADWAY STANDARD DRAWINGS AND TRAFFIC CONTROL PLANS.
- O) PROVIDE SIGNING REQUIRED FOR THE OFF-SITE DETOUR ROUTE AS SHOWN IN THE TRAFFIC CONTROL PLANS.
- P) COVER OR REMOVE ALL SIGNS AND DEVICES REQUIRED TO CLOSE THE ROAD WHEN ROAD CLOSURE IS NOT IN OPERATION.
- Q) COVER OR REMOVE ALL SIGNS REQUIRED FOR THE OFF-SITE DETOUR WHEN THE DETOUR IS NOT IN OPERATION.
- R) ENSURE ALL NECESSARY SIGNING IS IN PLACE PRIOR TO ALTERING ANY TRAFFIC PATTERN.
- S) INSTALL BLACK ON ORANGE *DIP* SIGNS (W8-2) AND/OR *BUMP* SIGNS (W8-1) (500 FT) IN ADVANCE OF THE UNEVEN AREA, OR AS DIRECTED BY THE ENGINEER.

TRAFFIC BARRIER

- T) INSTALL TEMPORARY BARRIER ACCORDING TO THE TRANSPORTATION MANAGEMENT PLANS A MAXIMUM OF TWO (2) WEEKS PRIOR TO BEGINNING WORK IN ANY LOCATION. ONCE TEMPORARY BARRIER IS INSTALLED AT ANY LOCATION PROCEED IN A CONTINUOUS MANNER TO COMPLETE THE PROPOSED WORK IN THAT LOCATION UNLESS OTHERWISE STATED IN THE TRANSPORTATION MANAGEMENT PLANS OR AS DIRECTED BY THE ENGINEER.

DO NOT PLACE BARRIER DIRECTLY ON ANY SURFACE OTHER THAN ASPHALT OR CONCRETE.

ONCE TEMPORARY BARRIER IS INSTALLED AT ANY LOCATION AND NO WORK IS PERFORMED BEHIND THE TEMPORARY BARRIER FOR A PERIOD LONGER THAN TWO (2) MONTHS, REMOVE / RESET TEMPORARY BARRIER AT NO COST TO THE DEPARTMENT UNLESS OTHERWISE STATED IN THE TRANSPORTATION MANAGEMENT PLANS, TEMPORARY BARRIER IS PROTECTING A HAZARD, OR AS DIRECTED BY THE ENGINEER.

INSTALL TEMPORARY BARRIER WITH THE TRAFFIC FLOW BEGINNING WITH THE UPSTREAM SIDE OF TRAFFIC. REMOVE TEMPORARY BARRIER AGAINST THE TRAFFIC FLOW BEGINNING WITH THE DOWNSTREAM SIDE OF TRAFFIC.

INSTALL AND SPACE DRUMS NO GREATER THAN TWICE THE POSTED SPEED LIMIT (MPH) TO CLOSE OR KEEP THE SECTION OF THE ROADWAY CLOSED UNTIL THE TEMPORARY BARRIER CAN BE PLACED OR AFTER THE TEMPORARY BARRIER IS REMOVED.

PROJ. REFERENCE NO.	SHEET NO.
B-5716	TMP-1B

PLANS PREPARED FOR THE NCDOT BY:

M MOTT MACDONALD T & E, LLC
1101 HAYNES STREET, SUITE 101
RALEIGH, NC 27604
M MOTT MACDONALD NC LICENSE NO. F-0669

APPROVED:  DATE: 25-Jun-2025 SEAL DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	 	TRANSPORTATION OPERATIONS PLAN
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- T) PROTECT THE APPROACH END OF MOVABLE/PORTABLE CONCRETE BARRIER AT ALL TIMES DURING THE INSTALLATION AND REMOVAL OF THE BARRIER BY EITHER A TRUCK MOUNTED ATTENUATOR (MAXIMUM 72 HOURS) OR A TEMPORARY CRASH CUSHION.

PROTECT THE APPROACH END OF MOVABLE/PORTABLE CONCRETE BARRIER FROM ONCOMING TRAFFIC AT ALL TIMES BY A TEMPORARY CRASH CUSHION UNLESS THE APPROACH END OF MOVABLE/PORTABLE CONCRETE BARRIER IS OFFSET FROM ONCOMING TRAFFIC AS FOLLOWS OR AS SHOWN IN THE PLANS: (SEE ALSO 1101.05)

POSTED SPEED LIMIT	MINIMUM OFFSET
40 OR LESS	15 FT
45 - 50	20 FT
55	25 FT
60 MPH or HIGHER	30 FT

TRAFFIC CONTROL DEVICES

- U) WHEN LANE CLOSURES ARE NOT IN EFFECT SPACE CHANNELIZING DEVICES IN WORK AREAS NO GREATER IN FEET THAN TWICE THE POSTED SPEED LIMIT (MPH) EXCEPT, 10 FT ON-CENTER IN RADII, AND 3 FT OFF THE EDGE OF AN OPEN TRAVELWAY. REFER TO STANDARD SPECIFICATIONS FOR ROADS AND STRUCTURES SECTIONS 1130 (DRUMS), 1135 (CONES) AND 1180 (SKINNY DRUMS) FOR ADDITIONAL REQUIREMENTS.

- V) PLACE TYPE III BARRICADES, WITH "ROAD CLOSED" SIGN R11-2 ATTACHED, OF SUFFICIENT LENGTH TO CLOSE ENTIRE ROADWAY.

PAVEMENT MARKINGS AND MARKERS

- W) INSTALL TEMPORARY PAVEMENT MARKINGS AND TEMPORARY PAVEMENT MARKERS ON INTERIM LAYERS OF PAVEMENT AS FOLLOWS:

ROAD NAME	MARKING	MARKER
ALL ROADS	PAINT	TEMPORARY RAISED
CONCRETE BRIDGE DECK	COLD APPLIED PLASTIC - TYPE 4	

- X) PLACE ONE APPLICATION OF PAINT FOR TEMPORARY TRAFFIC PATTERNS. PLACE A SECOND APPLICATION OF PAINT SIX (6) MONTHS AFTER THE INITIAL APPLICATION AND EVERY SIX MONTHS AS DIRECTED BY THE ENGINEER.

- Y) TIE PROPOSED PAVEMENT MARKING LINES TO EXISTING PAVEMENT MARKING LINES.

- Z) REMOVE/REPLACE ANY CONFLICTING/DAMAGED PAVEMENT MARKINGS AND MARKERS BY THE END OF EACH DAY'S OPERATION.

MISCELLANEOUS

- AA) LAW ENFORCEMENT MAY BE USED TO MAINTAIN TRAFFIC THROUGH THE WORK AREA AND/OR INTERSECTIONS AS DIRECTED BY THE ENGINEER.
- BB) IN THE EVENT A TIE-IN CANNOT BE MADE IN ONE DAY'S TIME, BRING THE TIE-IN AREA TO AN APPROPRIATE ROADWAY ELEVATION AS DETERMINED BY THE ENGINEER. PLACE BLACK ON ORANGE "LOOSE GRAVEL" SIGNS (W8-7) AND BLACK ON ORANGE "PAVEMENT ENDS" SIGNS (W8-3) 1000 AND 500 RESPECTIVELY IN ADVANCE OF THE UNEVEN AREAS. USE DRUMS TO DELINEATE THE EDGE OF ROADWAY ALONG UNPAVED AREAS.
- CC) ALL CURB RAMP LOCATIONS SHALL BE DERIVED FROM STATIONING SHOWN ON PAVEMENT MARKING PLANS OR AS DIRECTED BY THE ENGINEER IN COORDINATION WITH THE SIGNING AND DELINEATION UNIT.
- DD) CONTRACTOR SHALL MAINTAIN SIDEWALK ACCESS AT ALL TIMES AS STATED IN THE PHASING. CONTRACTOR SHALL BE RESPONSIBLE TO PROVIDE TEMPORARY SIDEWALKS (CONCRETE, ASPHALT, OR OTHER SUITABLE MATERIAL AS APPROVED BY THE ENGINEER) AT ALL LOCATIONS WHERE THE OPEN PEDESTRIAN TRAVELWAY HAS BEEN REMOVED FOR CONSTRUCTION OPERATIONS (UTILITIES, DRAINAGE, ETC.).

LOCAL NOTES

- 1) COORDINATE WITH ENGINEER TO NOTIFY THE TOWN OF MADISON AT LEAST THIRTY (30) CALENDAR DAYS PRIOR TO ANY RESTRICTIONS TO THE ACCESS AND USE OF THE MADISON RIVER/LINDSEY BRIDGE ROAD ACCESS POINT IN ORDER FOR THE TOWN OF MADISON TO COORDINATE WITH THE RIVER OUTFITTERS AND PLACE A NOTICE AT THE PARK. CONTACT INFORMATION: KEVIN BAUGHN, TOWN MANAGER (336)427-0021
- 2) COORDINATE WITH ENGINEER TO ENSURE THAT ROCKINGHAM COUNTY SCHOOL TRANSPORTATION WILL BE CONTACTED AT (336)634-3275 AND ROCKINGHAM COUNTY EMS WILL BE CONTACTED AT (336)634-3000 AT LEAST THIRTY (30) CALENDAR DAYS PRIOR TO BRIDGE CLOSURE TO MAKE NECESSARY TEMPORARY REASSIGNMENTS. IN ADDITION, THE TOWN OF MADISON WILL BE CONTACTED AT (336) 634-3275 AT LEAST THIRTY (30) CALENDAR DAYS PRIOR TO BRIDGE CLOSURE.

PROJ. REFERENCE NO.	SHEET NO.
B-5716	TMP-1C

PLANS PREPARED FOR THE NCDOT BY:

M

MOTT
MACDONALD

M

MOTT MACDONALD T & E, LLC
1101 HAYNES STREET, SUITE 101
RALEIGH, NC 27604
NC LICENSE NO. F-0669

APPROVED:

DocuSigned by:
Lori Stouchko
FF586C7596C845A

DATE: 09-Jul-2025

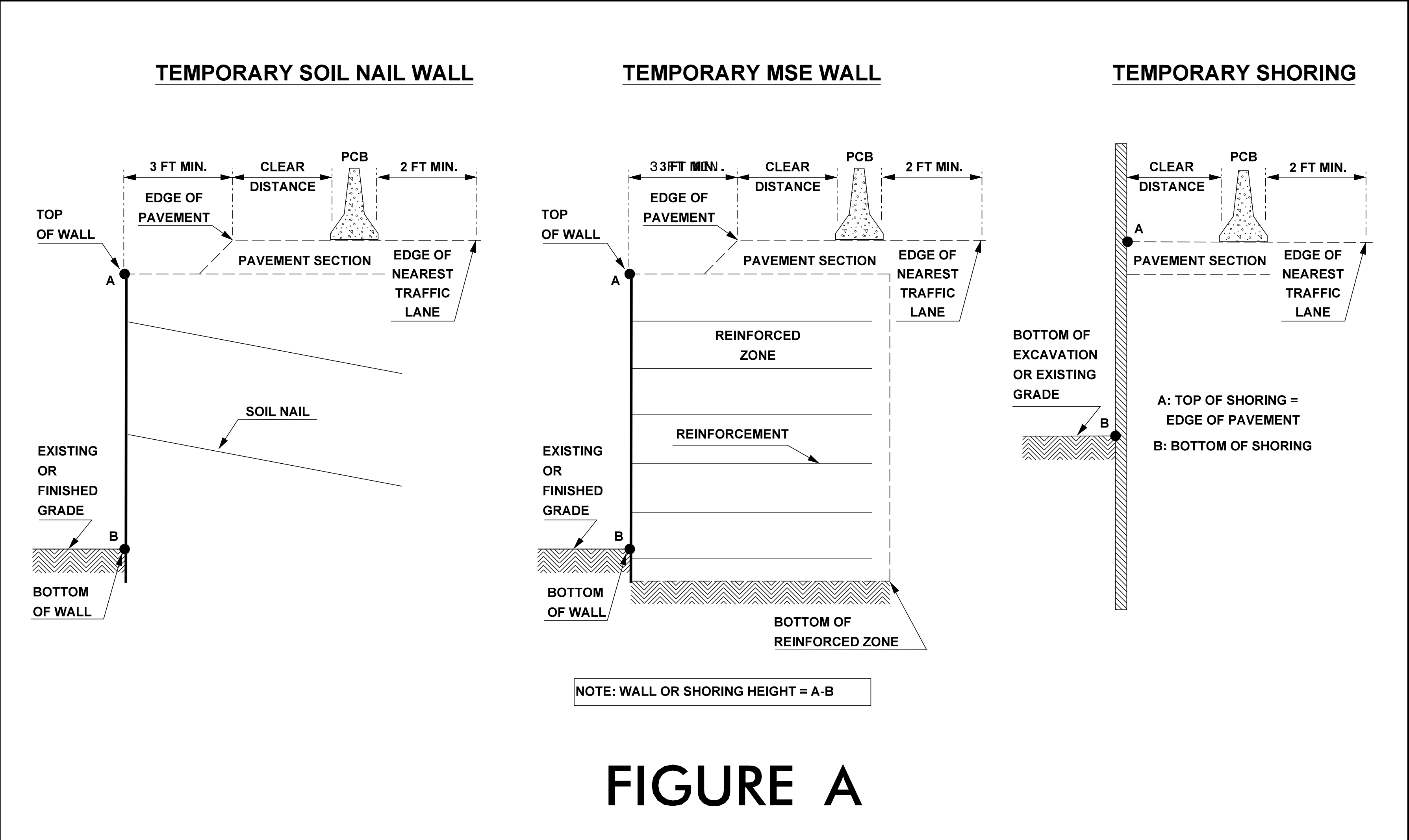
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SEAL
034437
ENGINEER
LORI D. STOUCHE

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DIVISION OF HIGHWAYS
STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION
WORK ZONE TRAFFIC CONTROL

TRANSPORTATION
OPERATIONS
PLAN



- NOTES

1- REFER TO THE TRAFFIC CONTROL PLANS FOR TEMPORARY SHORING LOCATIONS AND NOTES.

2- REFER TO THE "TEMPORARY SHORING" STANDARD PROVISION FOR INFORMATION ABOUT TEMPORARY SHORING AND PORTABLE CONCRETE BARRIER (PCB).

3- PCB IS REQUIRED IF TEMPORARY SHORING/WALL IS LOCATED WITHIN THE CLEAR ZONE IN ACCORDANCE WITH THE AASHTO ROADSIDE DESIGN GUIDE. DO NOT PLACE BARRIER DIRECTLY ON ANY SURFACE OTHER THAN ASPHALT OR CONCRETE. (CONTACT NCDOT PAVEMENT MANAGEMENT FOR APPLICABLE PAVEMENT DESIGN).

4- BASED ON THE CLEAR DISTANCE, OFFSET, DESIGN SPEED AND PAVEMENT TYPE, CHOOSE AN UNANCHORED OR ANCHORED PCB FROM THE TABLE SHOWN IN FIGURE B. CLEAR DISTANCE IS DEFINED AS SHOWN IN FIGURE A AND OFFSET IS DEFINED AS SHOWN IN FIGURE B.

5- AT THE CONTRACTOR'S OPTION OR IF THE MINIMUM REQUIRED CLEAR DISTANCE IS NOT AVAILABLE, SET PCB NEXT TO AND UP AGAINST THE TRAFFIC SIDE OF THE TEMPORARY SHORING/WALLS EXCEPT FOR BARRIER ABOVE TEMPORARY WALLS. PCB WITH THE MINIMUM REQUIRED CLEAR DISTANCE IS REQUIRED ABOVE TEMPORARY WALLS.

6- USE NCDOT PORTABLE CONCRETE BARRIER (PCB) IN ACCORDANCE WITH ROADWAY STANDARD DRAWING NO. 1170.01 AND SECTION 1170 OF THE STANDARD SPECIFICATIONS.

7- SET PCB WITH A MINIMUM HORIZONTAL DISTANCE OF 2 FT BETWEEN THE FRONT FACE OF THE BARRIER AND THE EDGE OF THE NEAREST TRAFFIC LANE AS SHOWN IN FIGURE A UNLESS OTHERWISE SHOWN IN THE PLANS OR APPROVED BY THE ENGINEER.

8- FOR PCB ABOVE AND BEHIND TEMPORARY WALLS, PROVIDE A MINIMUM DISTANCE OF 3 FT BETWEEN THE EDGE OF PAVEMENT AND THE WALL FACE AS SHOWN IN FIGURE A. IF THIS MINIMUM REQUIRED DISTANCE IS NOT AVAILABLE, CONTACT THE ENGINEER.

9- TABLE SHOWN IN FIGURE B IS BASED ON NCDOT RESEARCH PROJECT NO. 2005-010 WITH VEHICLE TYPE USED FOR NCHRP 350 CRASH TESTS.
- PROJ. REFERENCE NO.
B-5716

SHEET NO.
TMP-2

MINIMUM REQUIRED CLEAR DISTANCE, inches

Barrier Type	Pavement Type	Offset * ft	Design Speed, mph					
			<30	31-40	41-50	51-60	61-70	71-80
Unanchored PCB	Asphalt	<8	24	26	29	32	36	40
		8-14	26	28	31	35	38	42
		14-20	27	29	34	36	39	43
		20-26	28	31	35	38	40	44
		26-32	29	32	36	39	42	45
		32-38	30	34	38	41	43	46
		38-44	31	34	41	43	45	48
		44-50	31	35	41	43	46	49
	Concrete	50-56	32	36	42	44	47	50
		>56	32	36	42	45	47	51
		<8	17	18	21	22	25	26
		8-14	19	20	23	25	26	29
		14-20	22	22	24	26	28	31
		20-26	23	24	26	27	30	34
		26-32	24	25	27	28	32	35
		32-38	24	26	27	30	33	36
Anchored PCB	Asphalt	All Offsets	24 for All Design Speeds					
		All Offsets	12 for All Design Speeds					

* See Figure Below

FIGURE B

APPROVED:

DocuSigned by:
Lori Stouchko
FF586C7596C845A...

DATE: 10-Jun-2025

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SEAL 034437
ENGINEER
LORI D. STOUCHKO

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DIVISION OF HIGHWAYS
STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION
WORK ZONE TRAFFIC CONTROL

PORTABLE CONCRETE BARRIER
AT
TEMPORARY SHORING LOCATIONS

3/10/2025
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User:lso-lstouchko

TEMPORARY SHORING NOTES

TEMPORARY SHORING LOCATION 1

1. FOR TEMPORARY SHORING AND POSITIVE PROTECTION FOR TEMPORARY SHORING, SEE PLANS AND TEMPORARY SHORING PROVISION.
2. BEFORE BEGINNING TEMPORARY SHORING DESIGN OR CONSTRUCTION, SURVEY EXISTING GROUND ELEVATIONS IN THE VICINITY OF SHORING LOCATIONS TO DETERMINE ACTUAL SHORING HEIGHTS.
3. AT THE CONTRACTOR*S OPTION, USE STANDARD TEMPORARY SHORING OR STANDARD TEMPORARY WALL FOR TEMPORARY SHORING FROM -L- STATION 23+87, 27' LT TO STATION 24+85, 5.5' RT. SEE GEOTECHNICAL STANDARD DETAIL NO. 1801.01 FOR STANDARD TEMPORARY SHORING AND DETAIL NO. 1801.02 FOR STANDARD TEMPORARY WALLS.

PROJ. REFERENCE NO.	SHEET NO.
B-5716	TMP-2A

PLANS PREPARED FOR THE NCDOT BY:

M

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MACDONALD

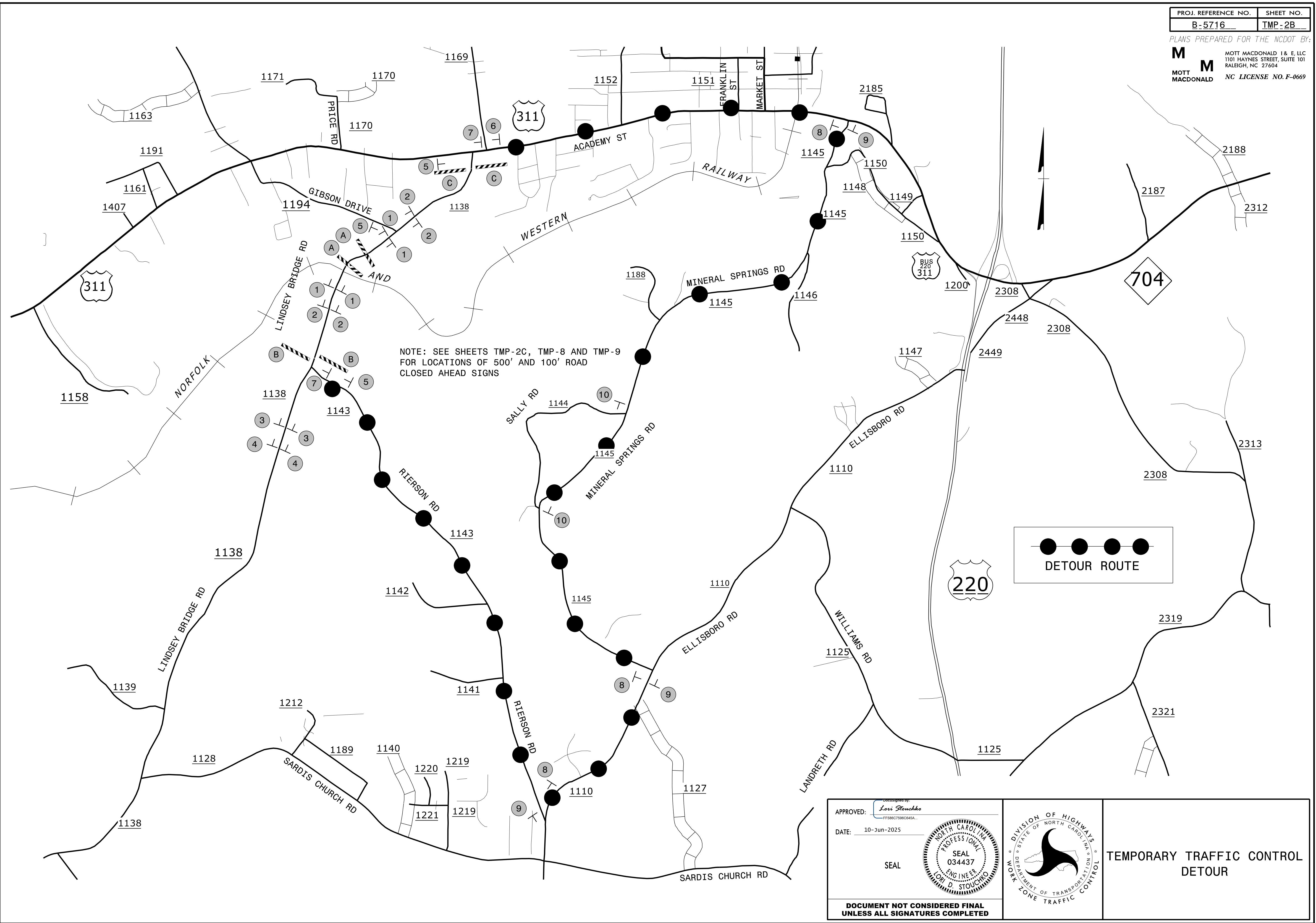
M

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1101 HAYNES STREET, SUITE 101
RALEIGH, NC 27604
NC LICENSE NO. F-0669

THE TEMPORARY SHORING NOTES SHOWN ON THIS SHEET WERE PROVIDED THROUGH A SEALED DOCUMENT FROM FALCON ENGINEERING, INC. THE DOCUMENT WAS SUBMITTED TO MOTT MACDONALD ON 12/21/2023 AND SEALED BY A PROFESSIONAL ENGINEER, W. SCOTT HUNSBERGER, LICENSE #36283.

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User:iso-1stouchko



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User:iso-1stouchko

1

ROAD
CLOSED
500 FT

W20-3
48" X 48"

2

ROAD
CLOSED
1000 FT

W20-3
48" X 48"

3

DETOUR
AHEAD

W20-2
48" X 48"

4

ROAD
CLOSED
AHEAD

W20-3
48" X 48"

0.8
MILES

W16-3P
30" X 24"

5

ROAD
CLOSED
AHEAD

W20-3
48" X 48"

NEXT RIGHT

SP-4R
42" X 12"

6

ROAD
CLOSED
AHEAD

W20-3
48" X 48"

NEXT LEFT

SP-4L
42" X 12"

7

END
DETOUR

M4-8 A
24" X 18"

8

LINDSEY
BRIDGE RD

SP-1
42" X 30"

DETOUR

M4-8
24" X 12"

→

M6-1
21" X 15"

9

LINDSEY
BRIDGE RD

SP-1
42" X 30"

DETOUR

M4-8
24" X 12"

←

M6-1 L
21" X 15"

10

LINDSEY
BRIDGE RD

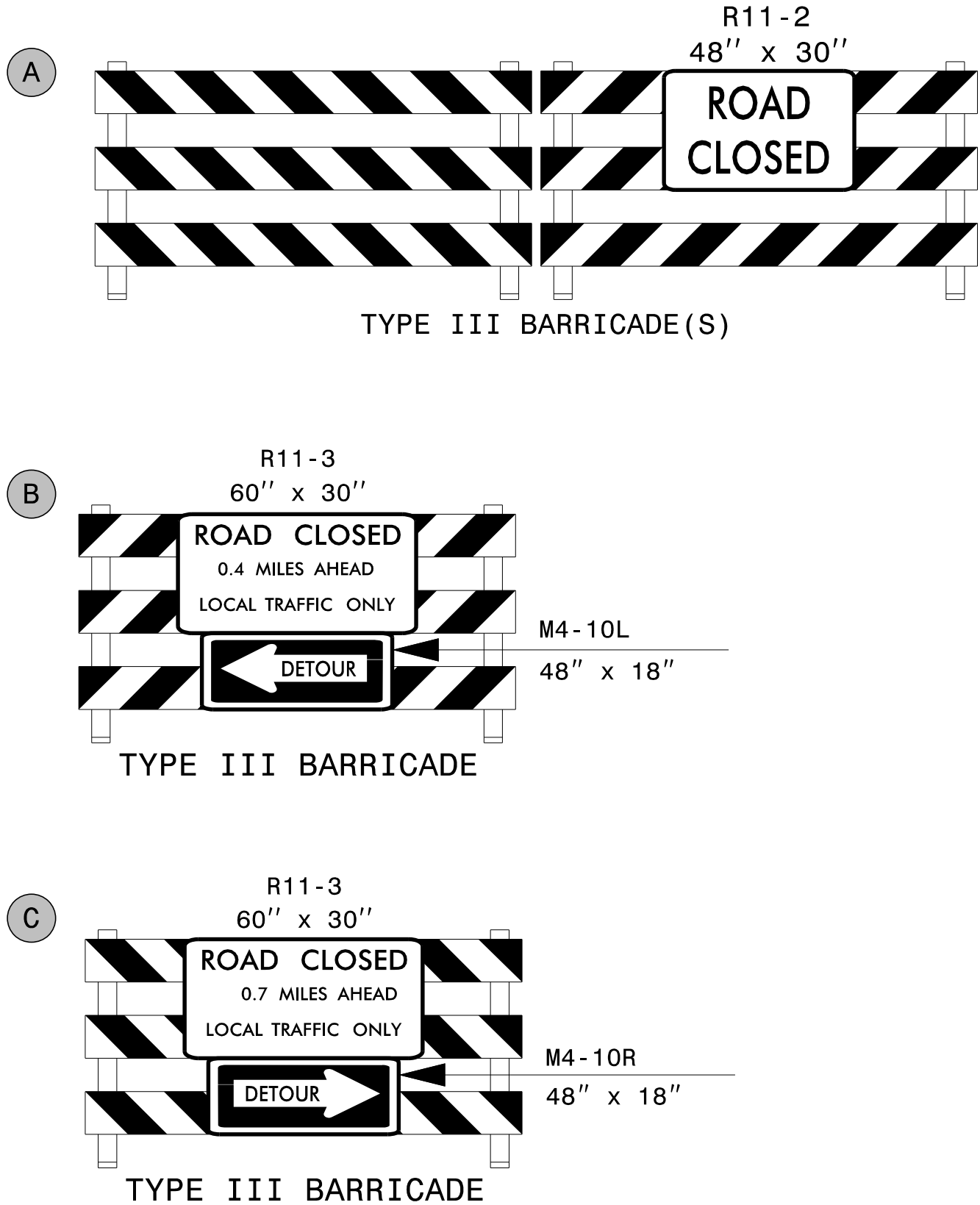
SP-1
42" X 30"

DETOUR

M4-8
24" X 12"

↑

M6-3
21" X 15"



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DESIGNED BY:

Lori Stouchko

FF586C7596C645A...

DATE: 10-Jun-2025

SEAL

SEAL

034437

ENGINEER

LORI D. STOUCO

DIVISION OF HIGHWAYS

STATE OF NORTH CAROLINA

DEPARTMENT OF TRANSPORTATION

WORK ZONE TRAFFIC CONTROL

TEMPORARY TRAFFIC CONTROL
DETOUR

PLANS PREPARED FOR THE NCDOT BY:

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MOTT
MACDONALD

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[illegible]

NOTES:

COMPLETE ANY PROPOSED WIDENING IN SUCH A MANNER THAT NO PONDING OF WATER WILL OCCUR WITHIN THE TRAVEL LANE

COMPLETE PAVING UP TO, BUT NOT INCLUDING FINAL LAYER OF SURFACE COURSE, UNTIL STATED TO PLACE FINAL LAYER IN WRITTEN PHASING OR AS DIRECTED BY ENGINEER

PHASE I (SEE SHEETS TMP-4 & TMP-5)

STEP 1

- A. USING RSD 1101.01, SHEET 1 OF 3, PLACE ADVANCED WARNING SIGNS
- B. USING RSD 1101.02, SHEET 1 OF 19 AND FLAGGERS AS NEEDED, REPLACE EXISTING YELLOW CENTERLINE AND SKIP LINE WITH DOUBLE YELLOW CENTER LINE (SEE SHEET TMP-4)

STEP 2

- AWAY FROM TRAFFIC, BEGIN CONSTRUCTION OF THE FOLLOWING:
- * -DR1-
 - * -L- FROM STA 14+00+/- TO END BENT 1
 - * PROPOSED STRUCTURE FROM END BENT 1 TO BENT 4
- USING RSD 1101.02, SHEET 1 OF 19 AND FLAGGERS AS NEEDED, BEGIN CONSTRUCTION OF THE FOLLOWING:
- * RIGHT SIDE OF -L- AS SHOWN FROM STA 10+00+/- TO STA 14+00+/-
 - * TIE OF -DR1- TO -L-
 - * -DR2- FROM STA 22+00+- TO -L-
 - * LEFT SIDE OF -L- FROM STA 27+00+/- TO 30+08+/-
 - * -L- FROM STA 30+08+/- TO STA 32+50+/-

STEP 3

- USING RSD 1101.02, SHEET 1 OF 19 AND FLAGGERS AS NEEDED, COMPLETE CONSTRUCTION OF THE FOLLOWING:
- * -DR2- FROM STA 22+00+/- TO -L-
 - * LEFT SIDE OF -L- FROM STA 27+00+/- TO 30+08+/-
 - * -L- FROM STA 30+08+/- TO STA 32+50+/-
 - * PLACE TEMPORARY PAVEMENT MARKINGS ON -DR2- AS SHOWN ON TMP-7

PHASE II (SEE SHEETS TMP-6 & TMP-7)

STEP 1

PLACE PEDESTRIAN CHANNELIZATION DEVICES CLOSING EXISTING PARKING LOT SIDEWALKS, ALONG -DR2-, AND ALONG -L- AT RIGHT OF WAY LINE TO MAINTAIN PEDESTRIAN TRAFFIC. PROVIDE AN ADA COMPLIANT PEDESTRIAN PROTECTIVE CANOPY ON -DR2- AT PROPOSED STRUCTURE.

CLOSE -DR2- AT THE PROPOSED BRIDGE LOCATION TO VEHICULAR TRAFFIC FOR MAINTENANCE OF PEDESTRIAN TRAFFIC

- USING RSD 1101.02, SHEET 1 OF 19 AND FLAGGERS AS NEEDED:
- a. PLACE TEMPORARY PAVEMENT ON THE RIGHT SIDE OF -L- FROM STA 23+08+/- TO STA 25+68+/- AS SHOWN ON TMP-7
- b. PLACE TEMPORARY PCB AND TEMPORARY CRASH CUSHIONS AS SHOWN ON TMP-7

STEP 2

- AWAY FROM VEHICULAR TRAFFIC, COMPLETE/CONSTRUCT THE FOLLOWING:
- * PROPOSED STRUCTURE (NOTE: PROVIDE TEMPORARY PROTECTIVE CANOPY FOR PEDESTRIAN TRAFFIC UNDER PROPOSED STRUCTURE BETWEEN BENT 4 AND END BENT 2)
 - * -L- FROM STA 14+00 TO END BENT 1 INCLUDING APPROACH SLAB
 - * -L- FROM END BENT 2 TO STA 24+00+/- INCLUDING PROPOSED RETAINING WALLS, APPROACH SLAB, AND PROPOSED SIDEWALK

USING RSD 1101.02, SHEET 1 OF 19 AND FLAGGERS AS NEEDED BEGIN CONSTRUCTION OF -DR3- AS SHOWN

- USING RSD 1101.02, SHEET 1 OF 19 AND FLAGGERS AS NEEDED COMPLETE/CONSTRUCT THE FOLLOWING:
- * RIGHT SIDE OF -L- FROM STA 24+00+/- TO STA 27+00+/-, INCLUDING PROPOSED SIDEWALK, UP TO BUT NOT INCLUDING ASPHALT PAVEMENT, USING TEMPORARY SHORING AS NEEDED TO MAINTAIN EXISTING TRAFFIC
 - * RIGHT SIDE OF -L- FROM STA 10+00+/- TO STA 14+00+/- INCLUDING WEDGING OF EXISTING PAVEMENT
 - * RIGHT SIDE OF -L- FROM STA 27+00+/- TO STA 30+08+/-
 - * -DR1- FROM THE EDGE OF EXISTING -L- TO STA 15+04+/-

PHASE III (SEE SHEETS TMP-8 & TMP-9)

STEP 1

USING TMP-2B AND TMP-2C AND RSD, INSTALL TEMPORARY DETOUR SIGNING FOR -L- ROAD CLOSURE AND COVER UNTIL TRAFFIC IS DETOURED

NOTE: COMPLETE THE WORK DESCRIBED IN PHASE III, STEP 2 AND STEP 3 IN FOURTEEN (14) CONSECUTIVE DAYS. SEE ICT AND LIQUIDATED DAMAGES

STEP 2

- A. UNCOVER DETOUR SIGNS AND CLOSE -L- TO TRAFFIC AS SHOWN ON TMP-2B, TMP-8 AND TMP-9
- B. AWAY FROM TRAFFIC, COMPLETE THE FOLLOWING:
- * -L- FROM STA 24+00+/- TO STA 27+00+/-
 - * -DR3-

STEP 3

- USING RSD 1101.02, SHEET 1 OF 19 AND FLAGGERS AS NEEDED:
- * PLACE TEMPORARY PAVEMENT MARKINGS ON -L- AS SHOWN ON TMP-10 AND TMP-11
 - * SHIFT TRAFFIC TO NEW TEMPORARY PATTERN ON -L-
 - * OPEN -L- TO TRAFFIC
 - * OPEN -DR1- TO TRAFFIC
 - * COVER DETOUR SIGNING

STEP 4

REMOVE DETOUR SIGNING

PHASE IV (SEE SHEETS TMP-10 & TMP-11)

STEP 1

USING RSD 1101.02, SHEET 1 OF 19 AND FLAGGERS AS NEEDED, CONSTRUCT THE LEFT SIDE OF -L- FROM STA 10+00+/- TO STA 14+00+/- INCLUDING PROPOSED TIE TO -DR1-

- AWAY FROM TRAFFIC:
- * REMOVE EXISTING -L- ROADWAY AS SHOWN
 - * REMOVE EXISTING BRIDGE STRUCTURE

STEP 2

- USING RSD 1101.02, SHEET 1 OF 19 AND FLAGGERS AS NEEDED, COMPLETE THE FOLLOWING:
- * FINAL LAYER OF SURFACE COURSE AND PLACE FINAL PAVEMENT MARKINGS
 - * OVERLAY AND FINAL PAVEMENT MARKINGS OF -DR2- AND PARKING LOT PER ROADWAY PLANS AND FINAL PAVEMENT MARKING PLANS

STEP 3

REMOVE ALL TEMPORARY TRAFFIC CONTROL DEVICES

PROJ. REFERENCE NO.	SHEET NO.
B-5716	TMP-3

PLANS PREPARED FOR THE NCDOT BY:

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MACDONALD

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APPROVED:

DESIGNED BY:
Lori Stouchko
FF586C7596C645A...

DATE: 10-Jun-2025

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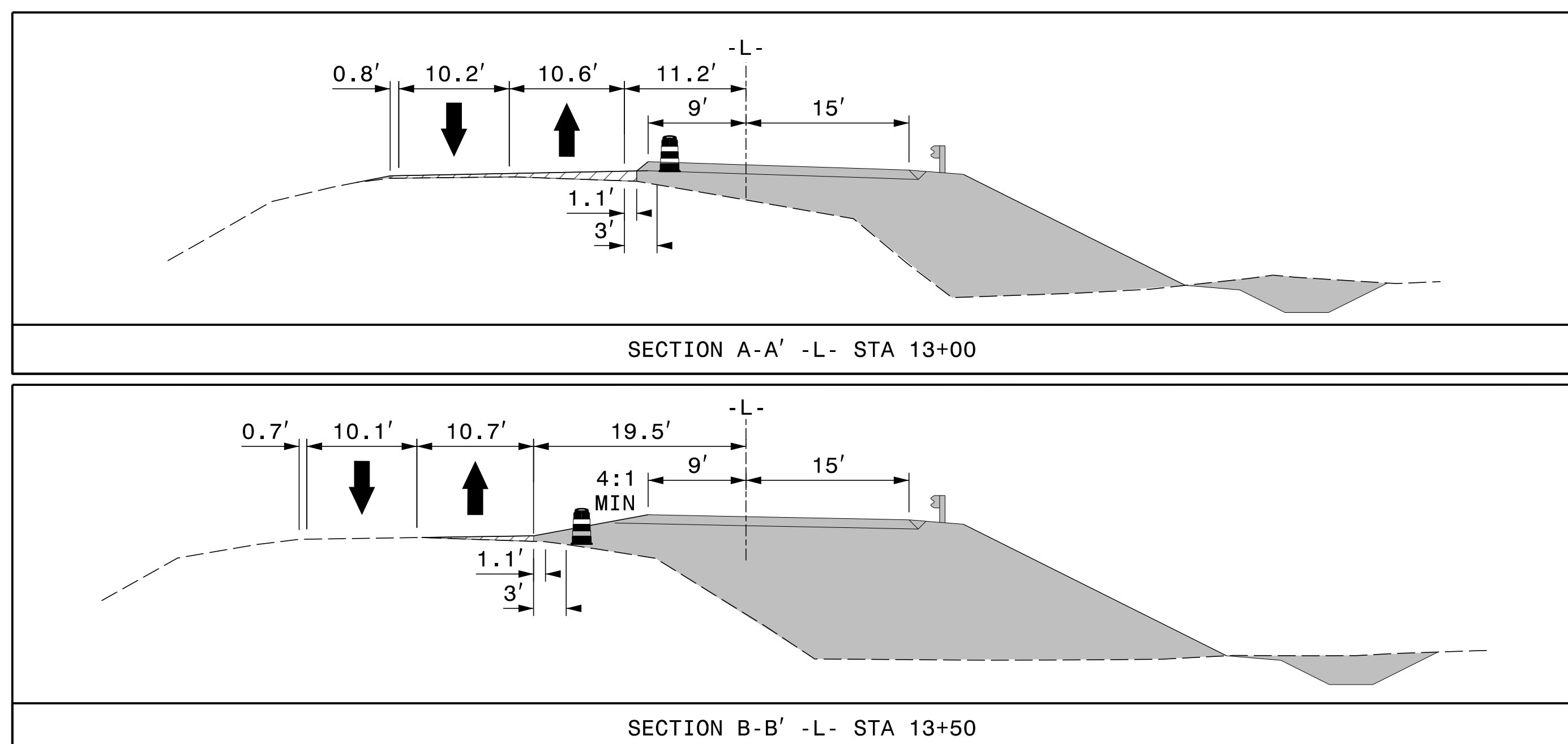
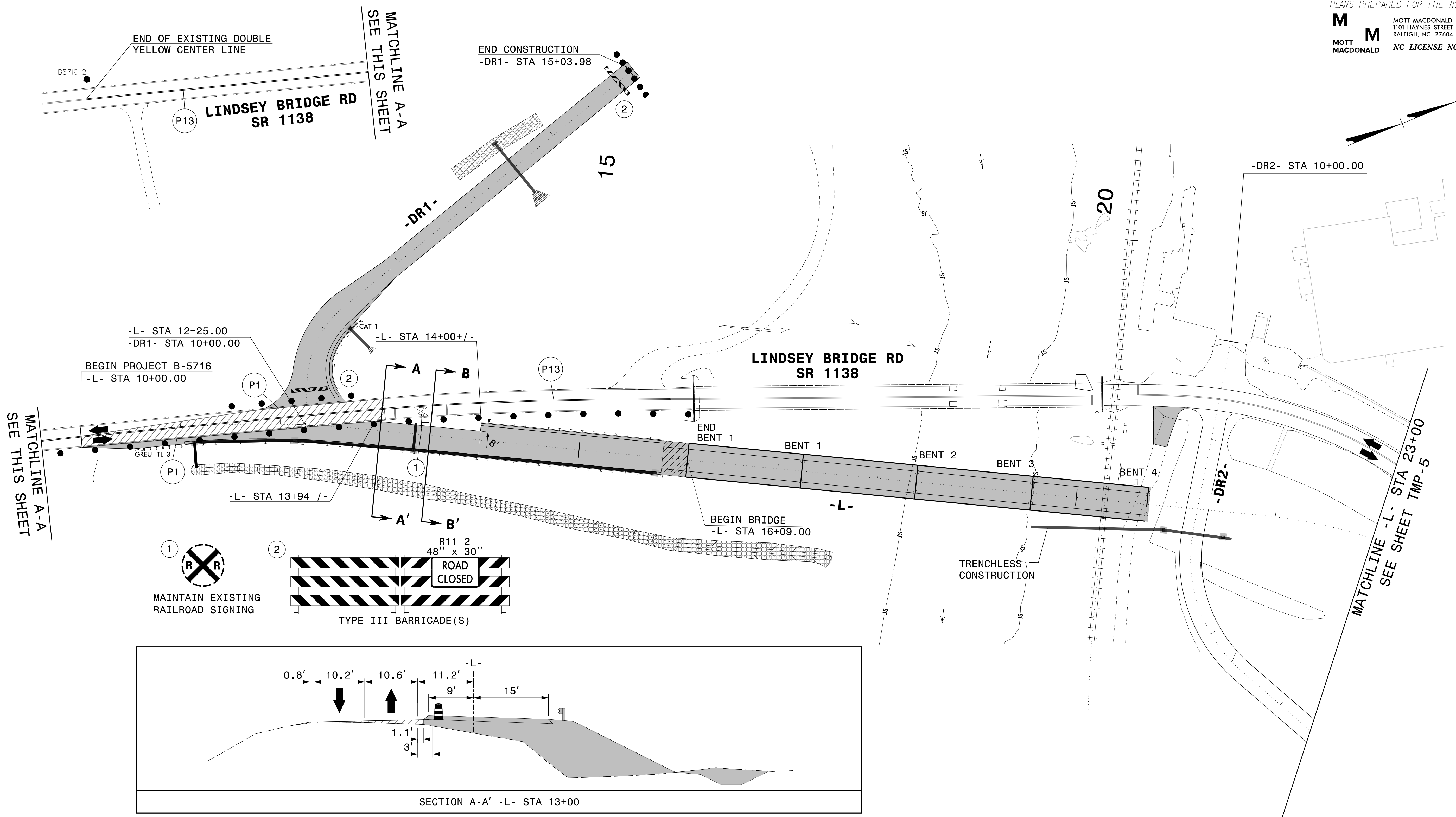
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TEMPORARY TRAFFIC CONTROL
PHASING

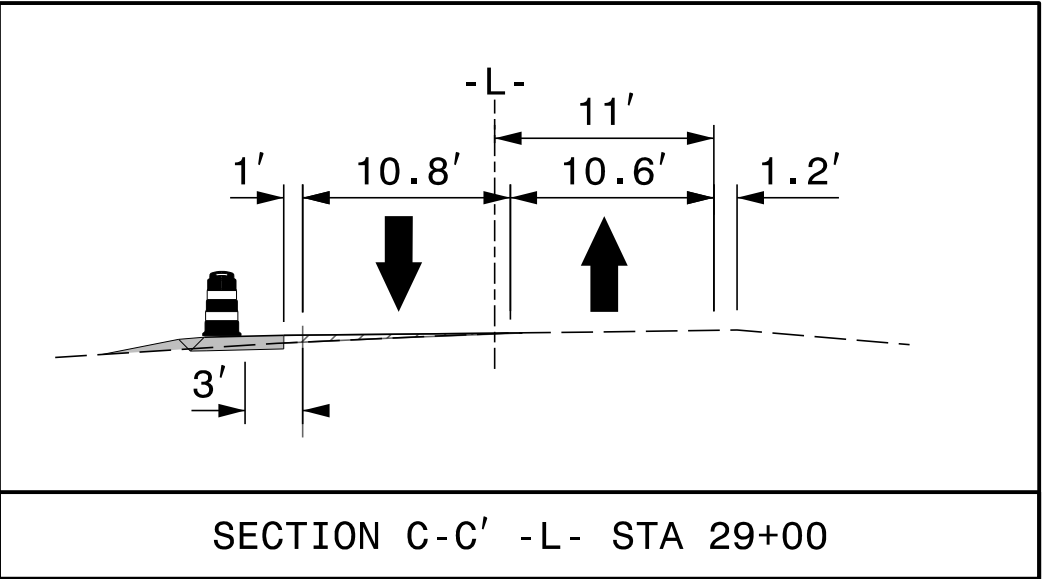
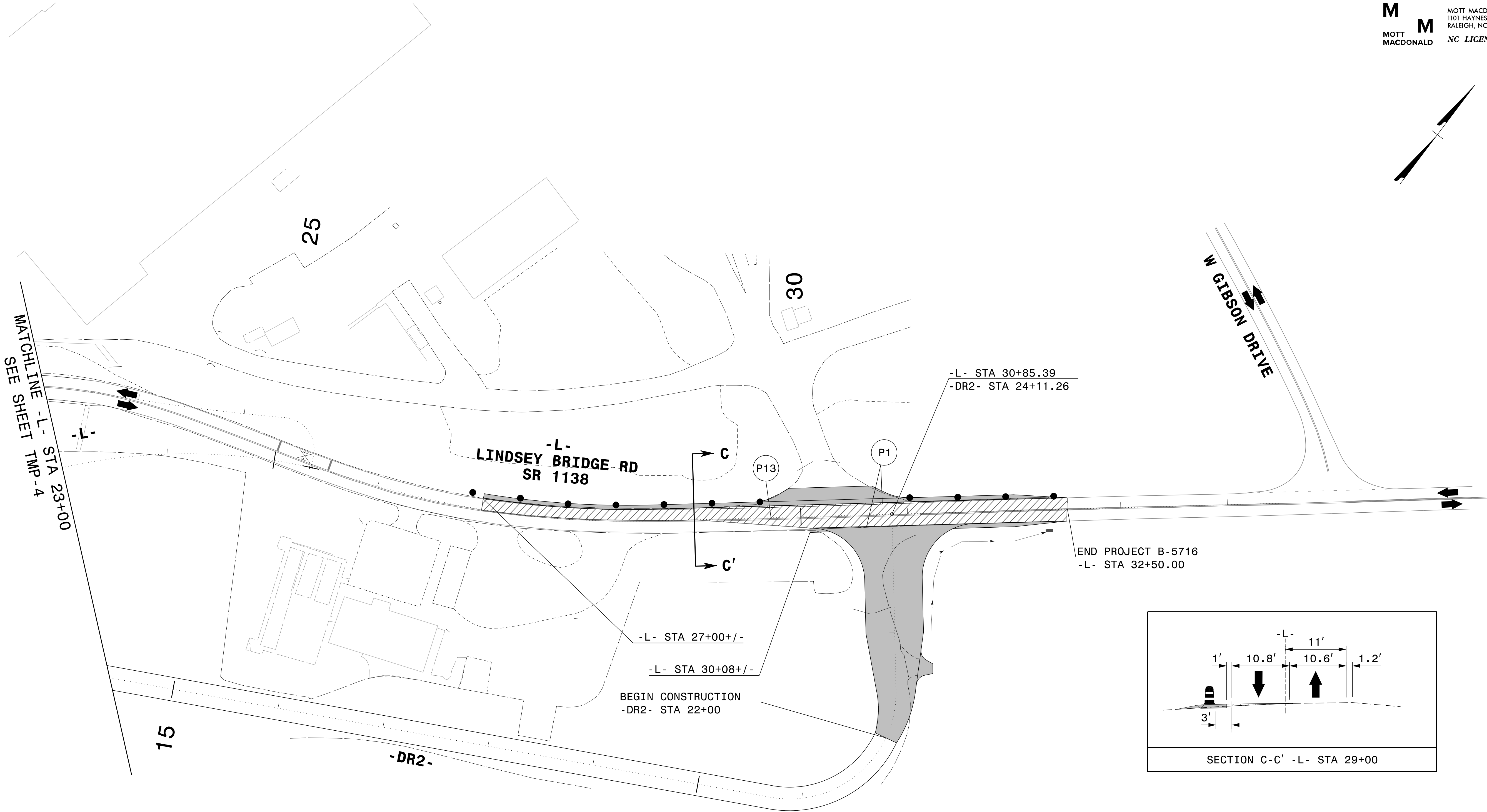
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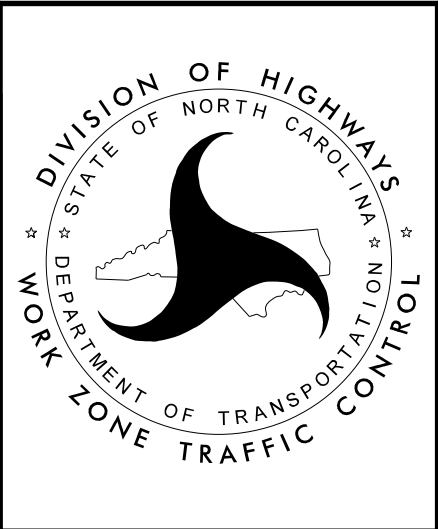


APPROVED: <u>Lori Stoucho</u> DATE: <u>10-Jun-2025</u> <div style="text-align: center;">  </div>		<h2 style="margin: 0;">TEMPORARY TRAFFIC CONTROL PHASE I DETAIL</h2>
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TEMPORARY TRAFFIC CONTROL
PHASE I DETAIL

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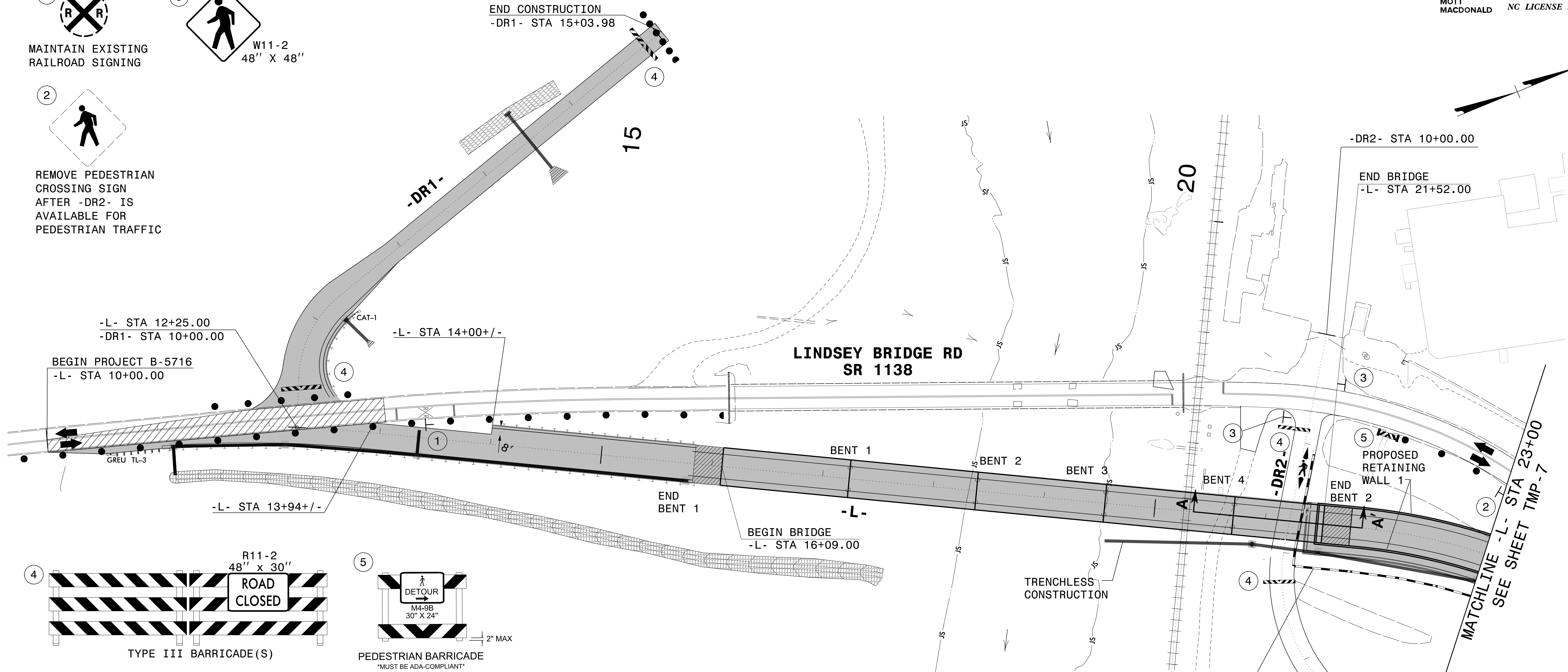
MAINTAIN EXISTING
RAILROAD SIGNING

3

W11-2
48" X 48"

2

REMOVE PEDESTRIAN
CROSSING SIGN
AFTER -DR2- IS
AVAILABLE FOR
PEDESTRIAN TRAFFIC



4

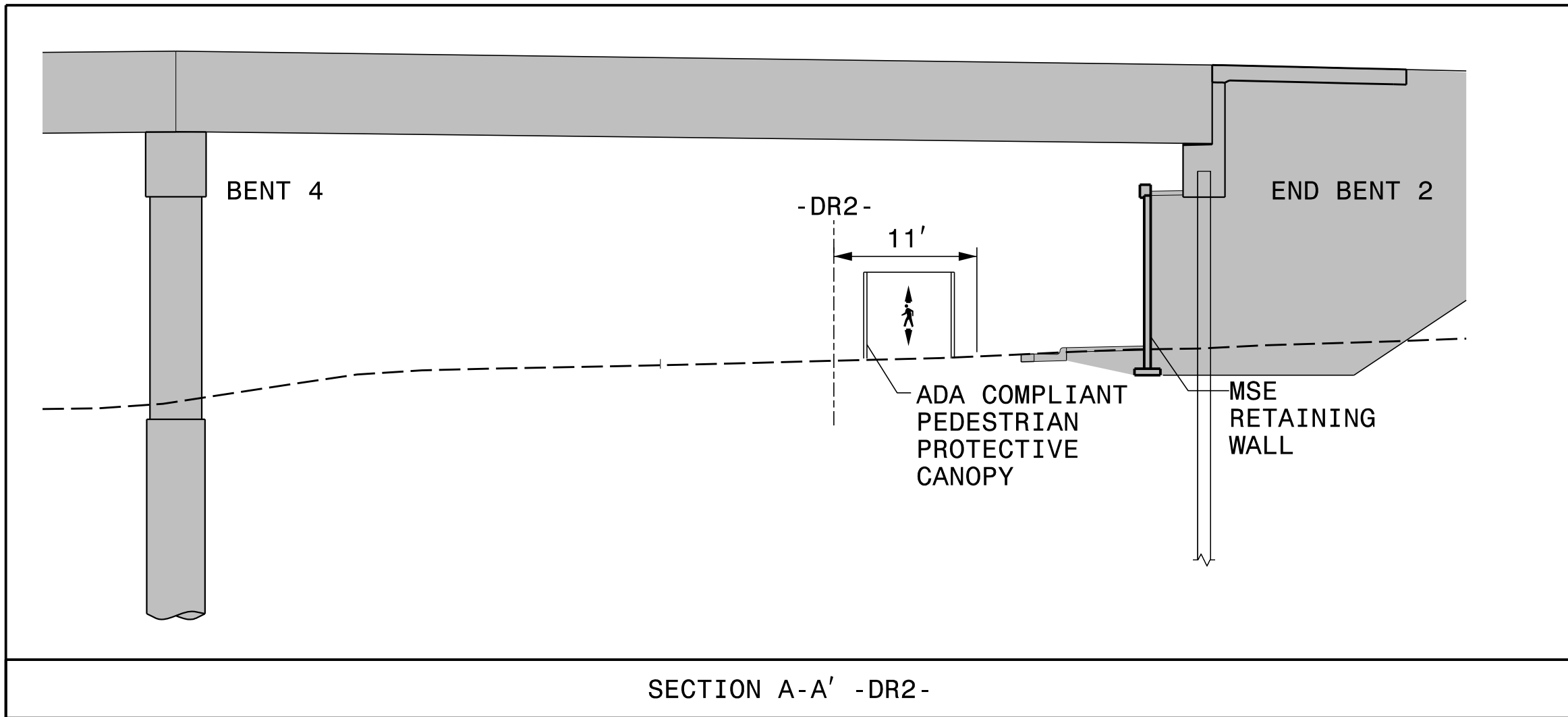
R11-2
48" X 30"
ROAD
CLOSED

TYPE III BARRICADE(S)

5

DETOUR
M4-9B
30" X 24"

PEDESTRIAN BARRICADE
MUST BE ADA-COMPLIANT



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TEMPORARY TRAFFIC CONTROL
PHASE II DETAIL

PROJ. REFERENCE NO.	SHEET NO.
B-5716	TMP-7

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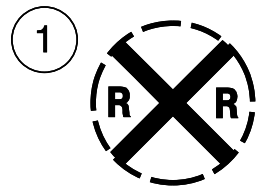
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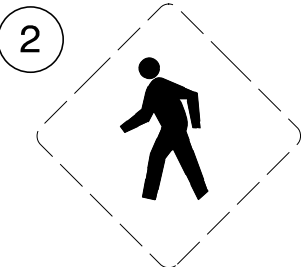
1 QUANTITY = 365.4 SF

TEMPORARY SHORING ON -L-
FROM STA 23+87+/-, 27' LT
TO STA. 24+85+/-, 5.5' RT

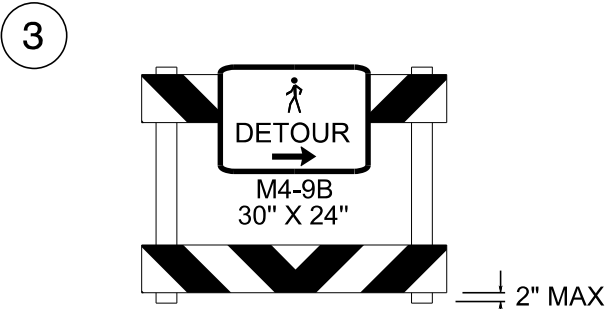
(SEE SHEET TMP-2A FOR
TEMPORARY SHORING NOTES)



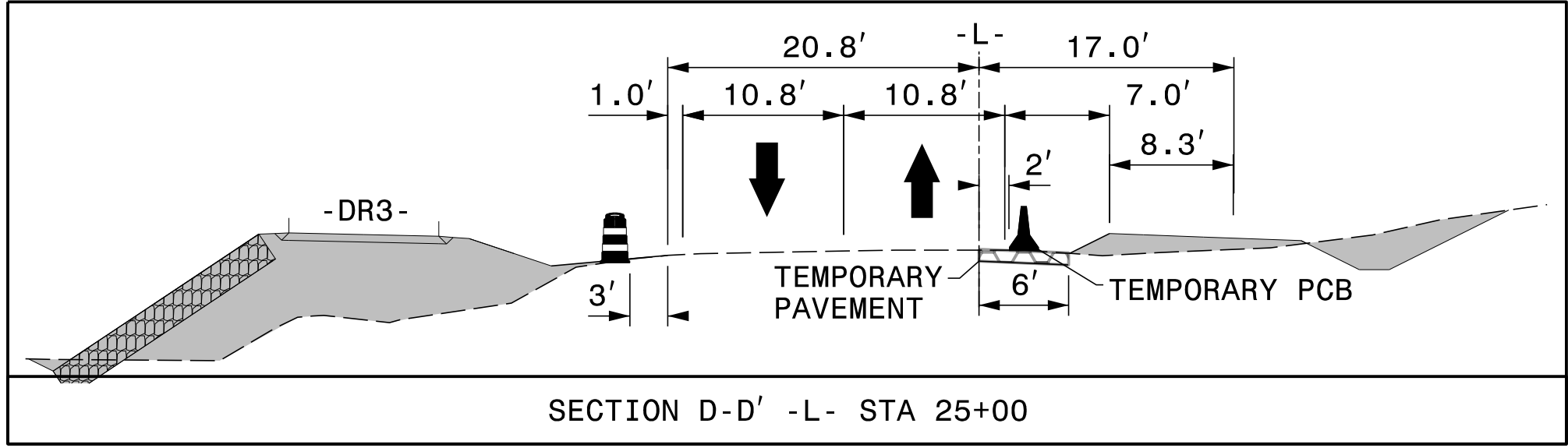
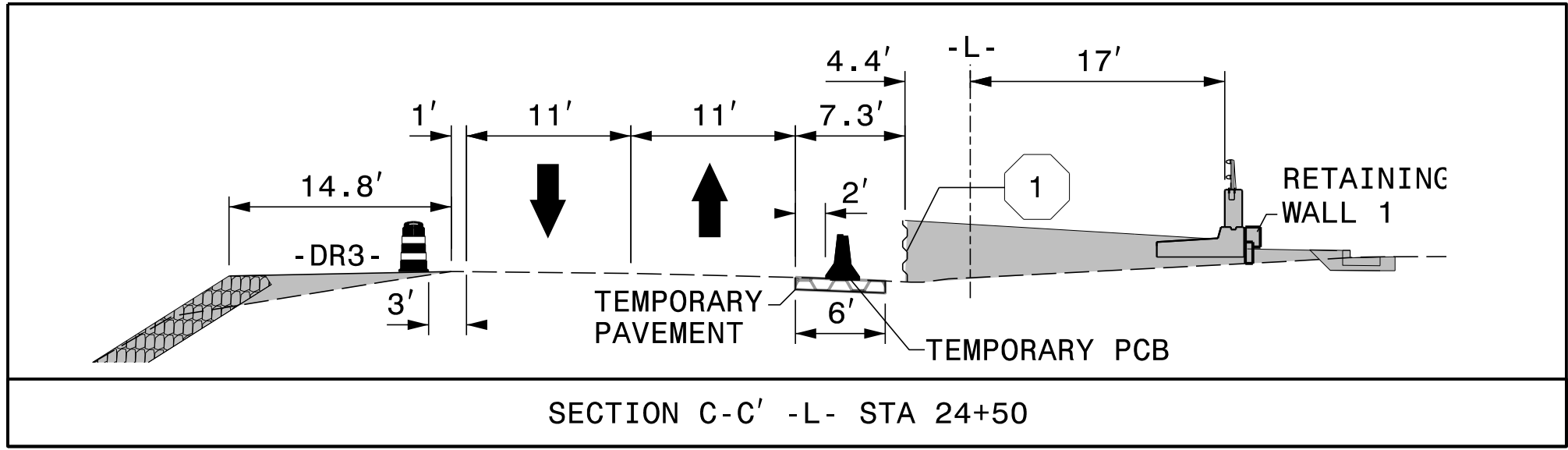
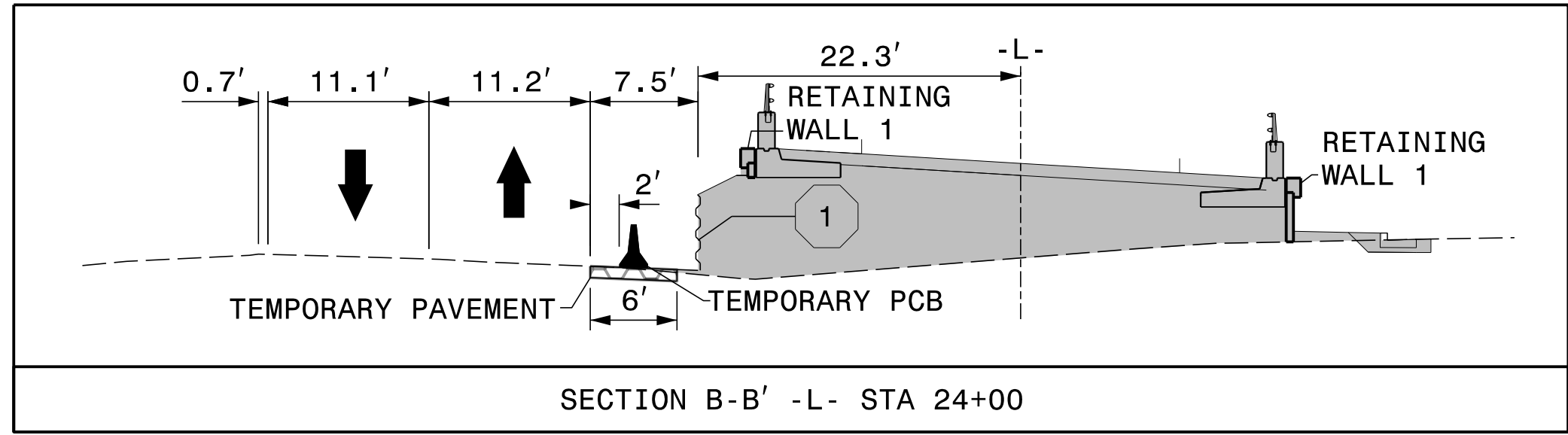
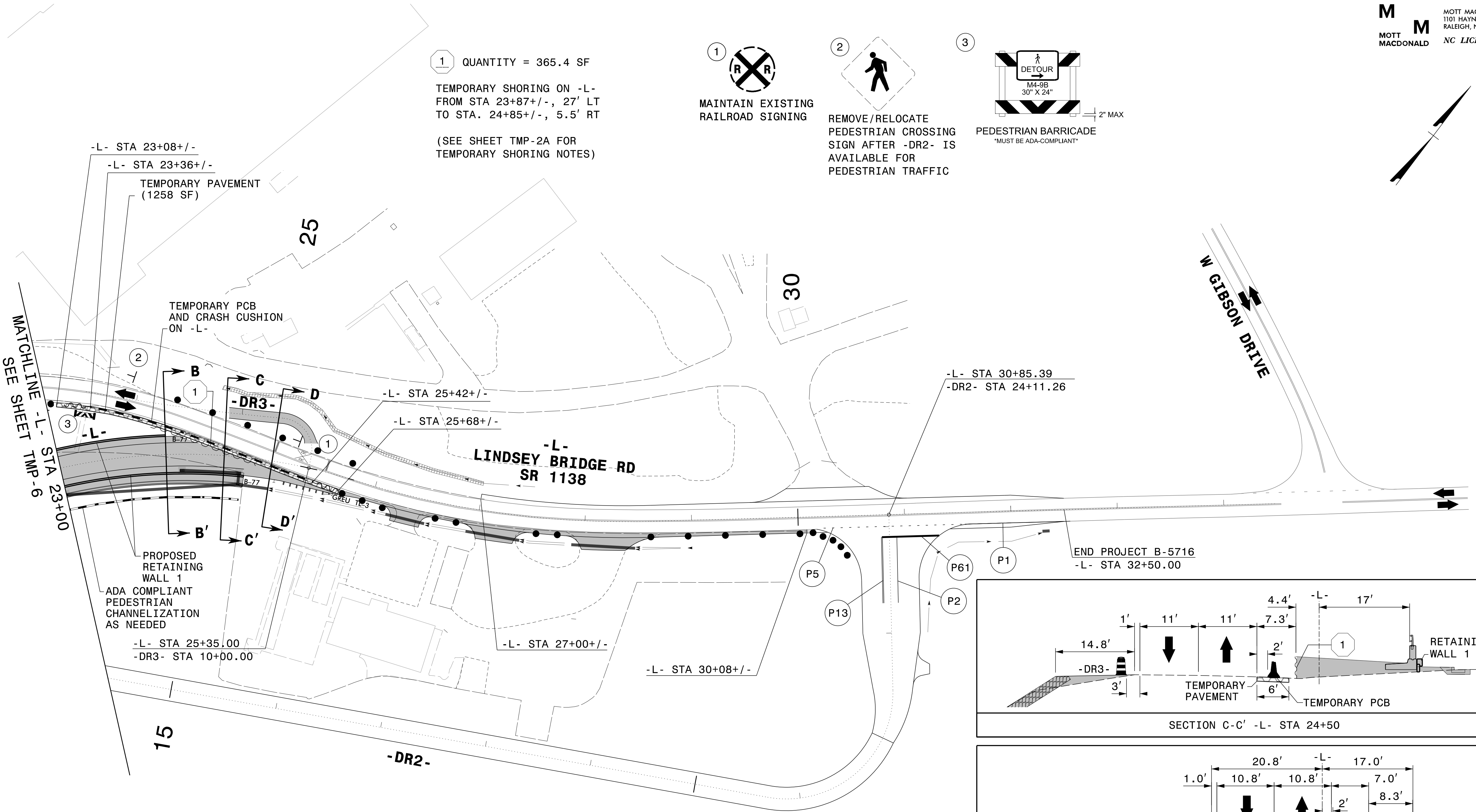
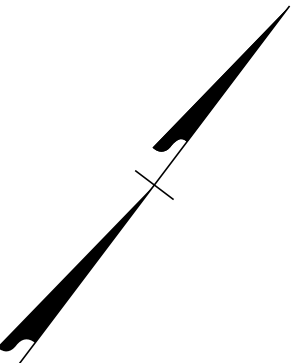
1
MAINTAIN EXISTING
RAILROAD SIGNING



2
REMOVE/RELOCATE
PEDESTRIAN CROSSING
SIGN AFTER -DR2- IS
AVAILABLE FOR
PEDESTRIAN TRAFFIC



3
PEDESTRIAN BARRICADE
MUST BE ADA-COMPLIANT



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DATE: 10-Jun-2025

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TEMPORARY TRAFFIC CONTROL
PHASE II DETAIL

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PROJ. REFERENCE NO.	SHEET NO.
B-5716	TMP-8

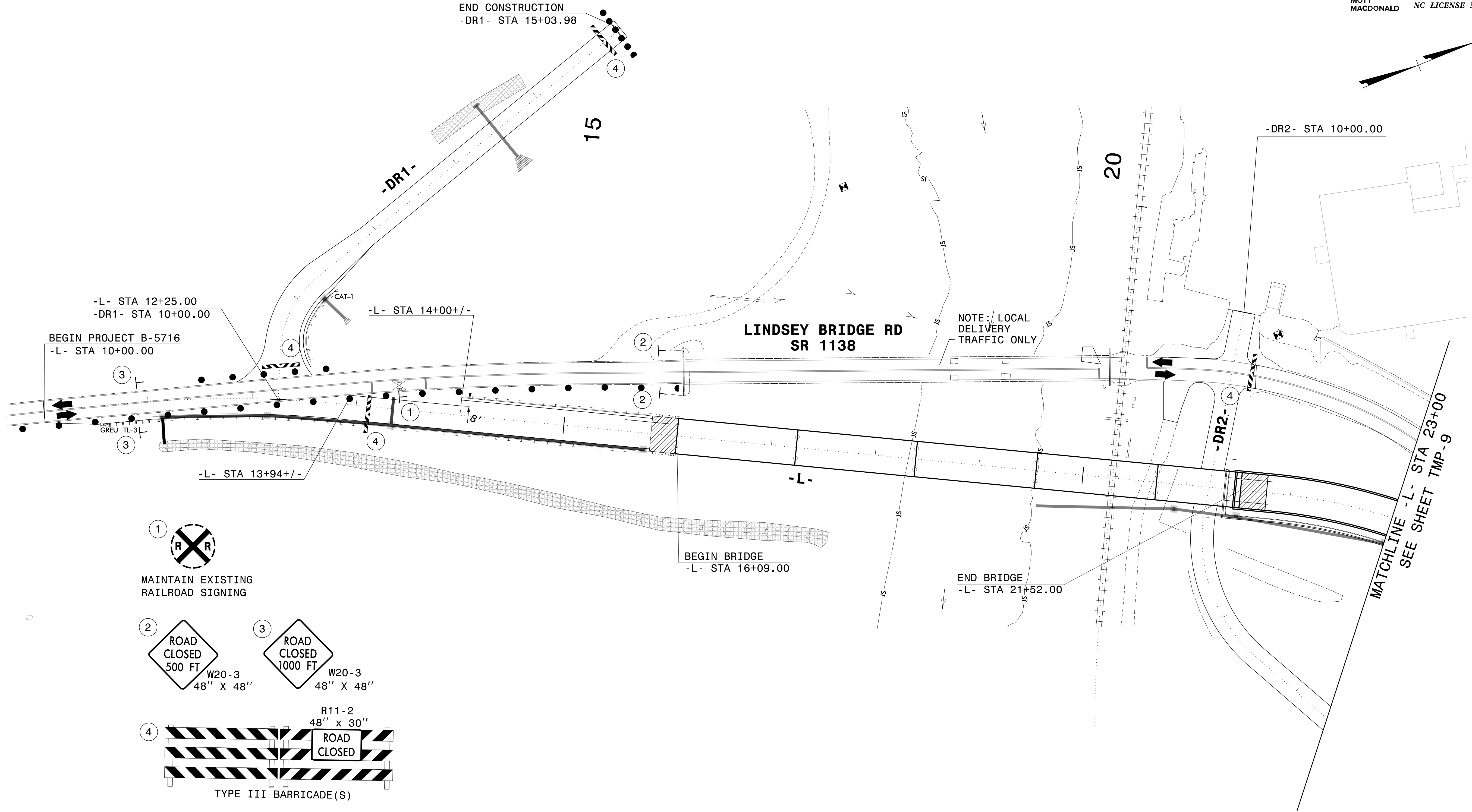
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M

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RALEIGH, NC 27604
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1

MAINTAIN EXISTING
RAILROAD SIGNING

2

W20-3
48" X 48"

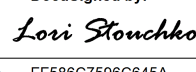
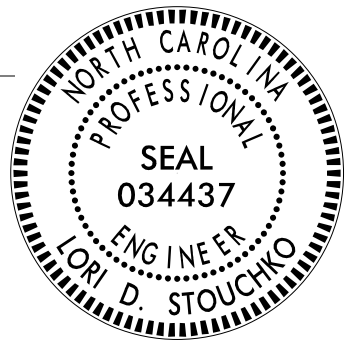

3

W20-3
48" X 48"

4

R11-2
48" x 30"
ROAD
CLOSED

TYPE III BARRICADE(S)

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DATE: 10-Jun-2025			
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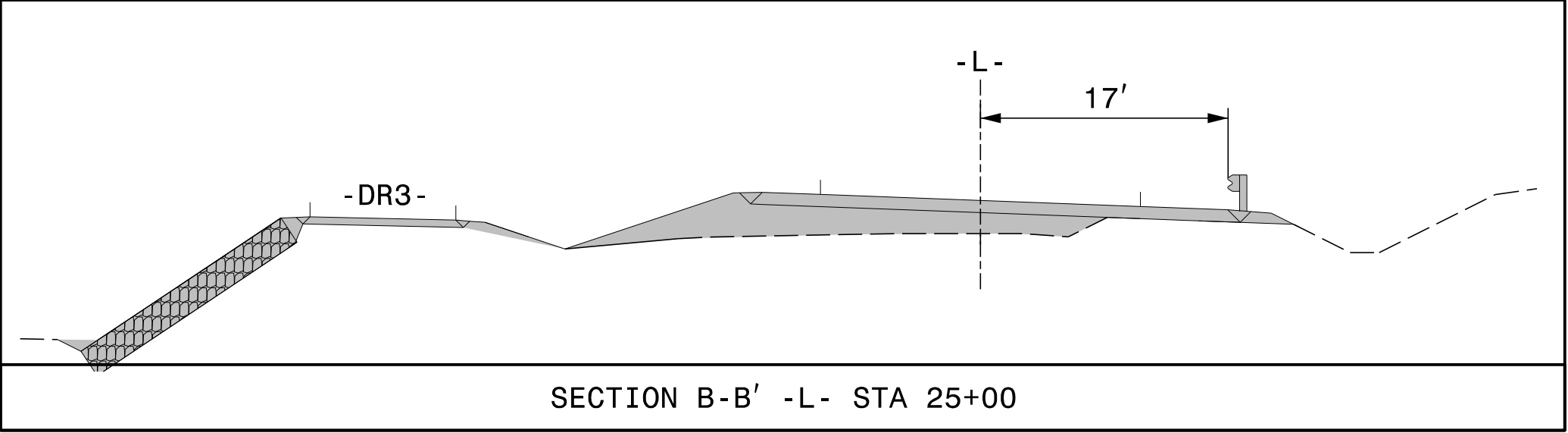
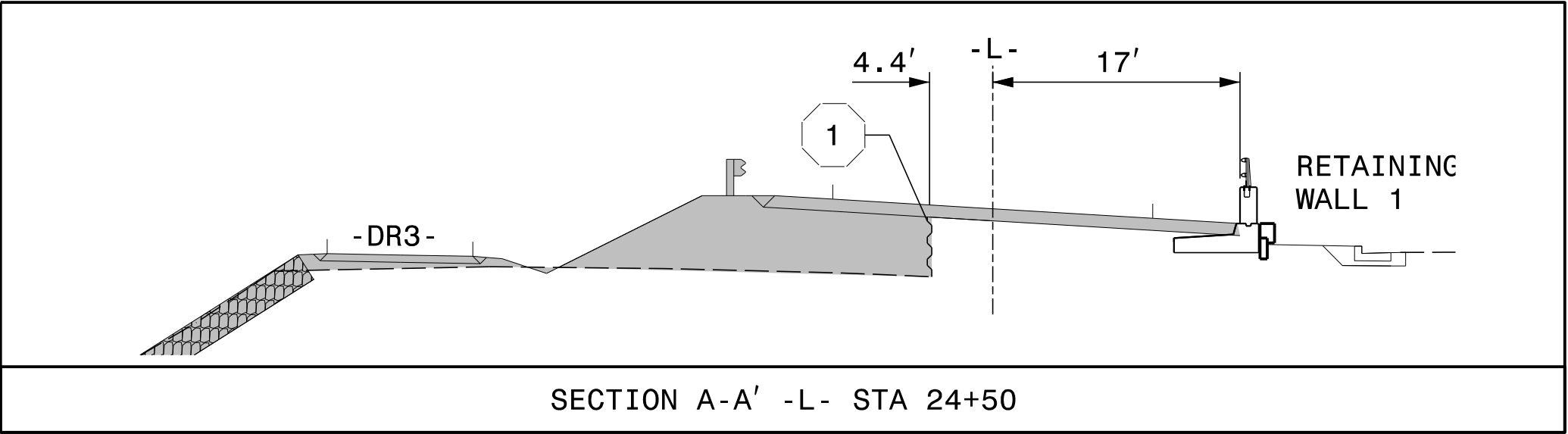
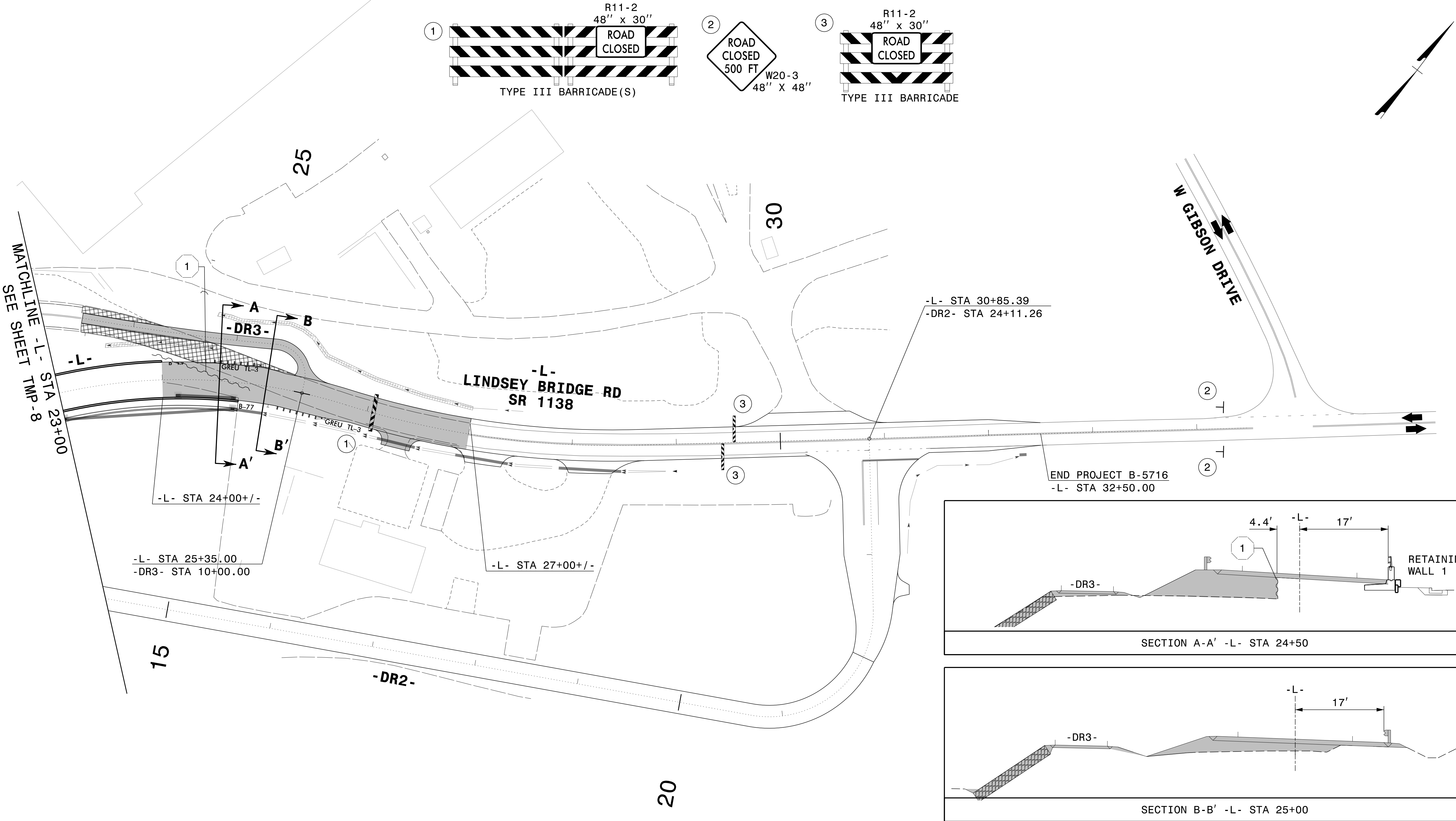
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B-5716	TMP-9

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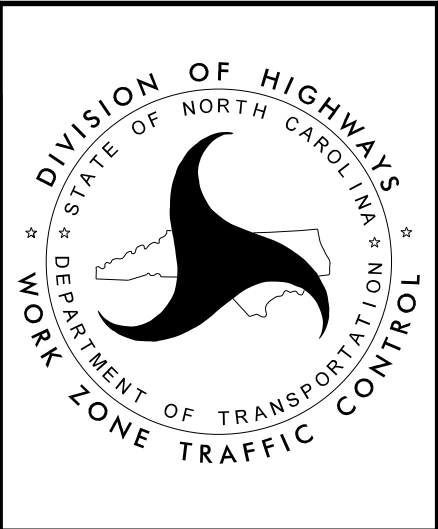
APPROVED: *Lori Stouchko*
FF586C7596C645A...

DATE: 10-Jun-2025

SEAL

SEAL
034437
ENGINEER
LORI D. STOUCHKO

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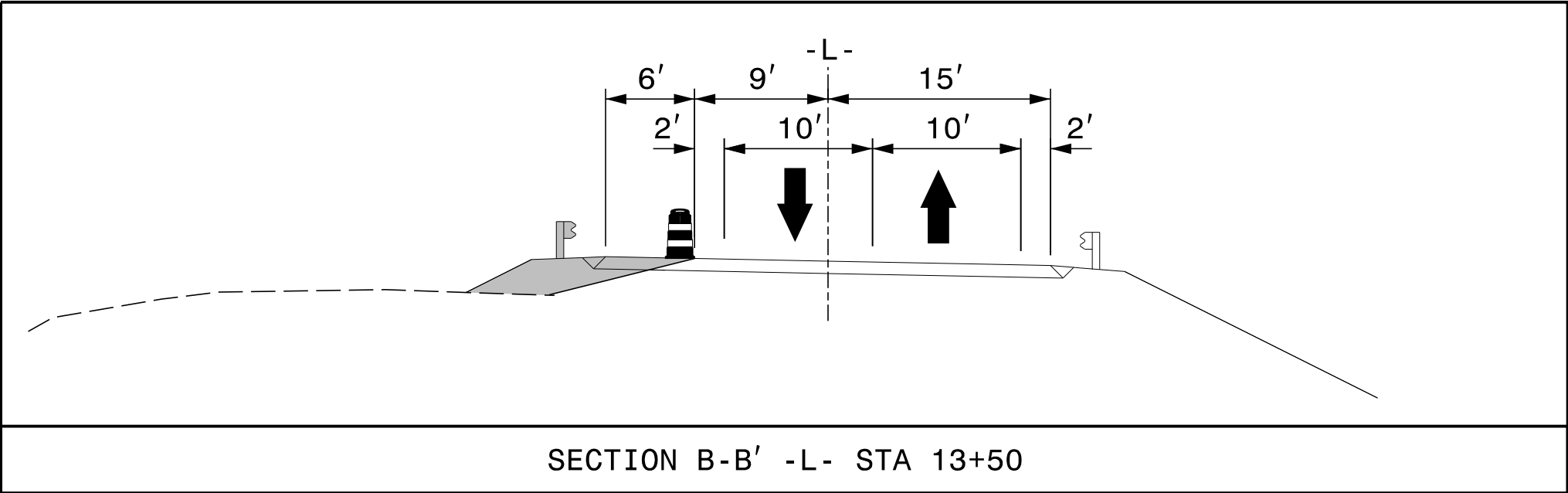
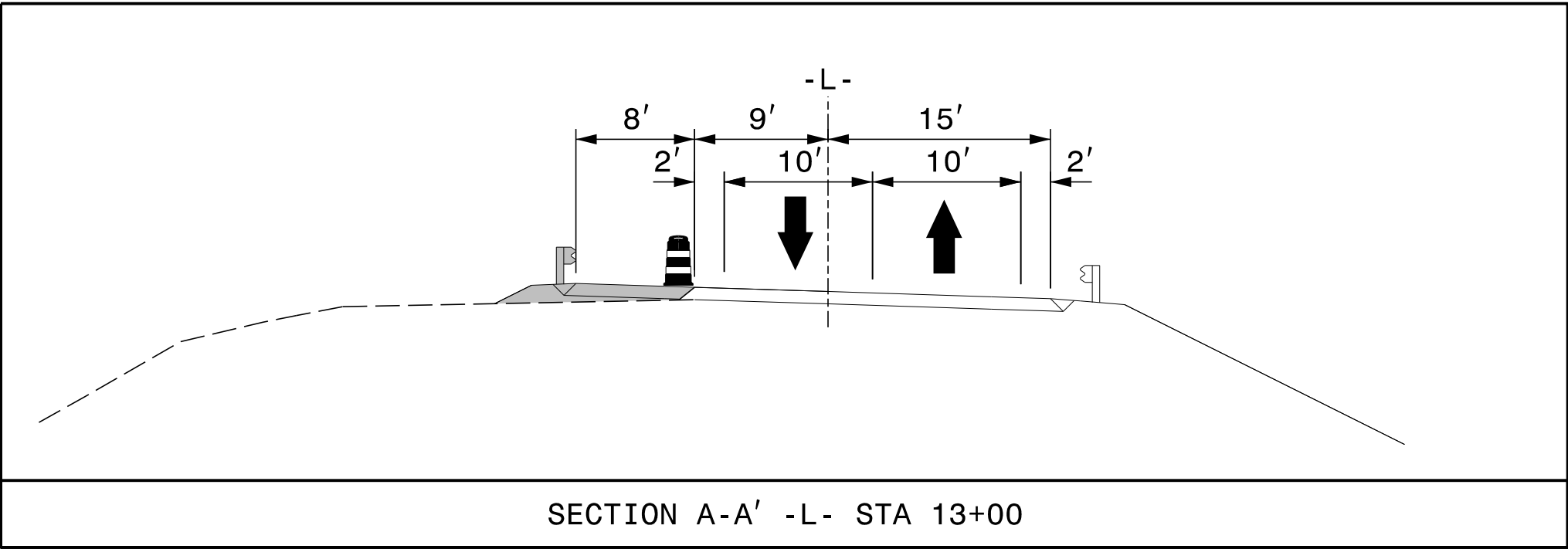
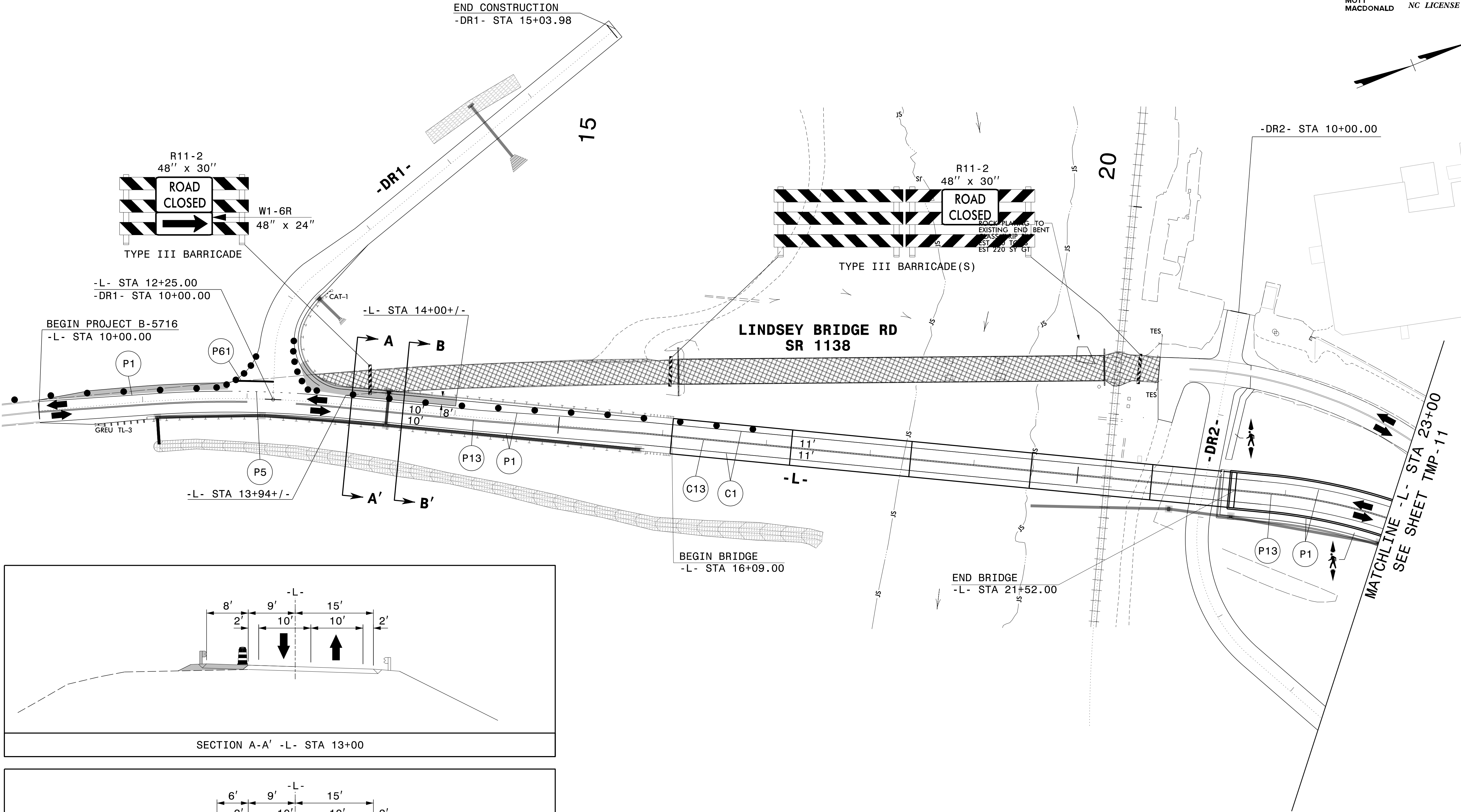
TEMPORARY TRAFFIC CONTROL
PHASE III DETAIL

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User:iso-1stouchko

PROJ. REFERENCE NO.	SHEET NO.
B-5716	TMP-10

PLANS PREPARED FOR THE NCDOT BY:

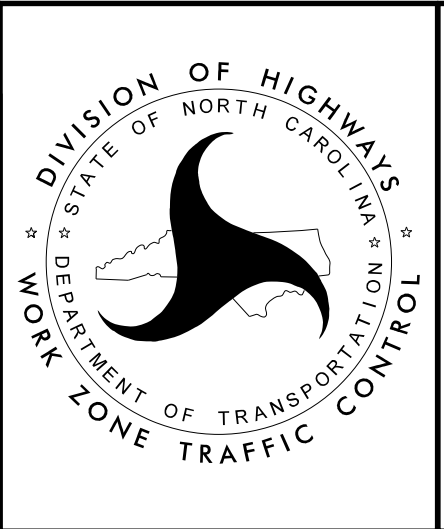
M
MOTT
MACDONALD
MOTT MACDONALD I & E, LLC
1101 HAYNES STREET, SUITE 101
RALEIGH, NC 27604
NC LICENSE NO. F-0669



APPROVED: *Lois Stouchko*
DATE: 10-Jun-2025

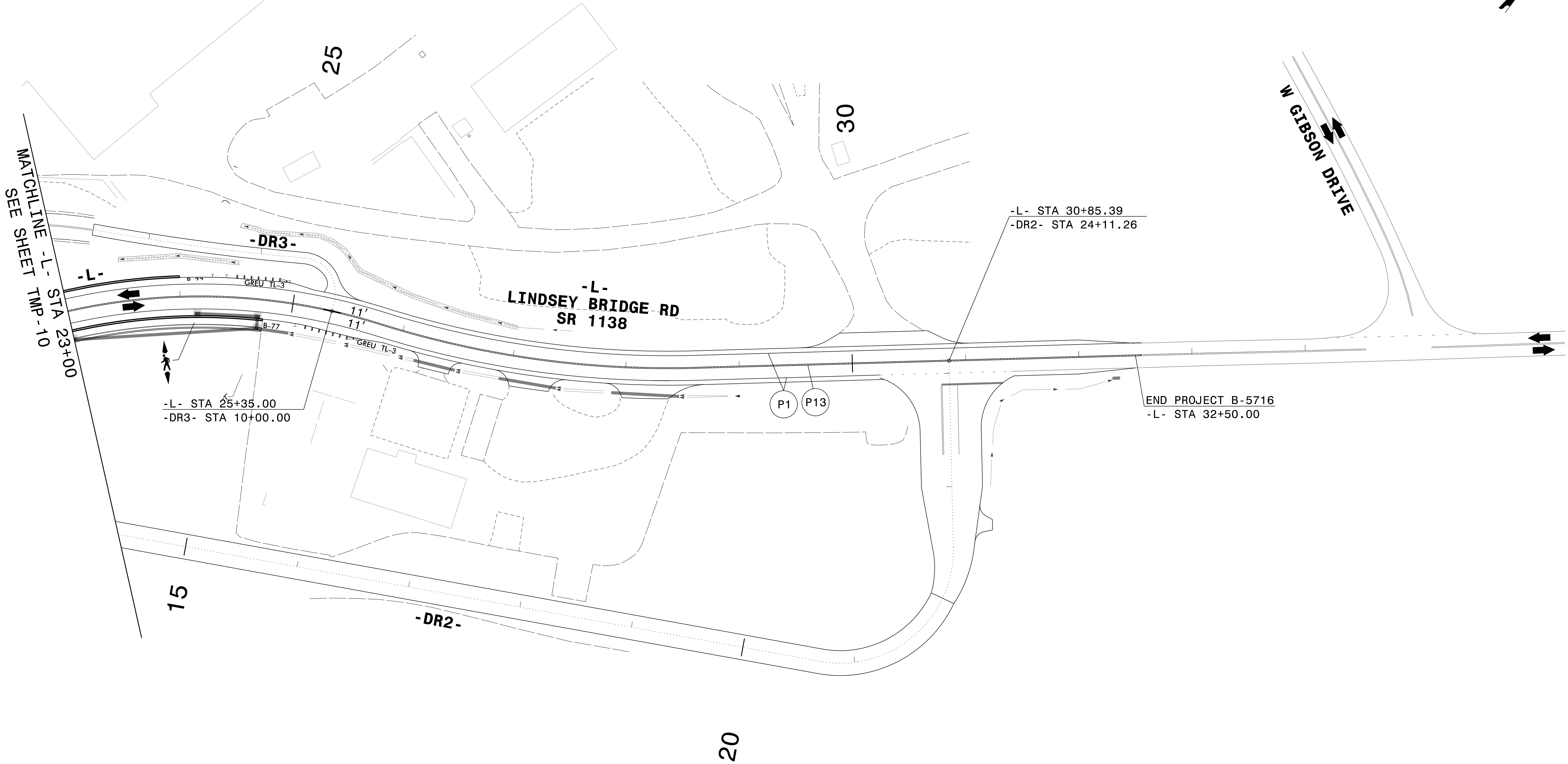
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TEMPORARY TRAFFIC CONTROL
PHASE IV DETAIL

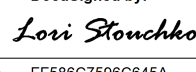
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User:iso-1stouchko



PROJ. REFERENCE NO.	SHEET NO.
B-5716	IMP-11


PLANS PREPARED FOR THE NCDOT BY:


M MOTT MACDONALD	M MOTT MACDONALD I & E, LLC 1101 HAYNES STREET, SUITE 101 RALEIGH, NC 27604 NC LICENSE NO. F-0669
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DATE: 10-Jun-2025

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