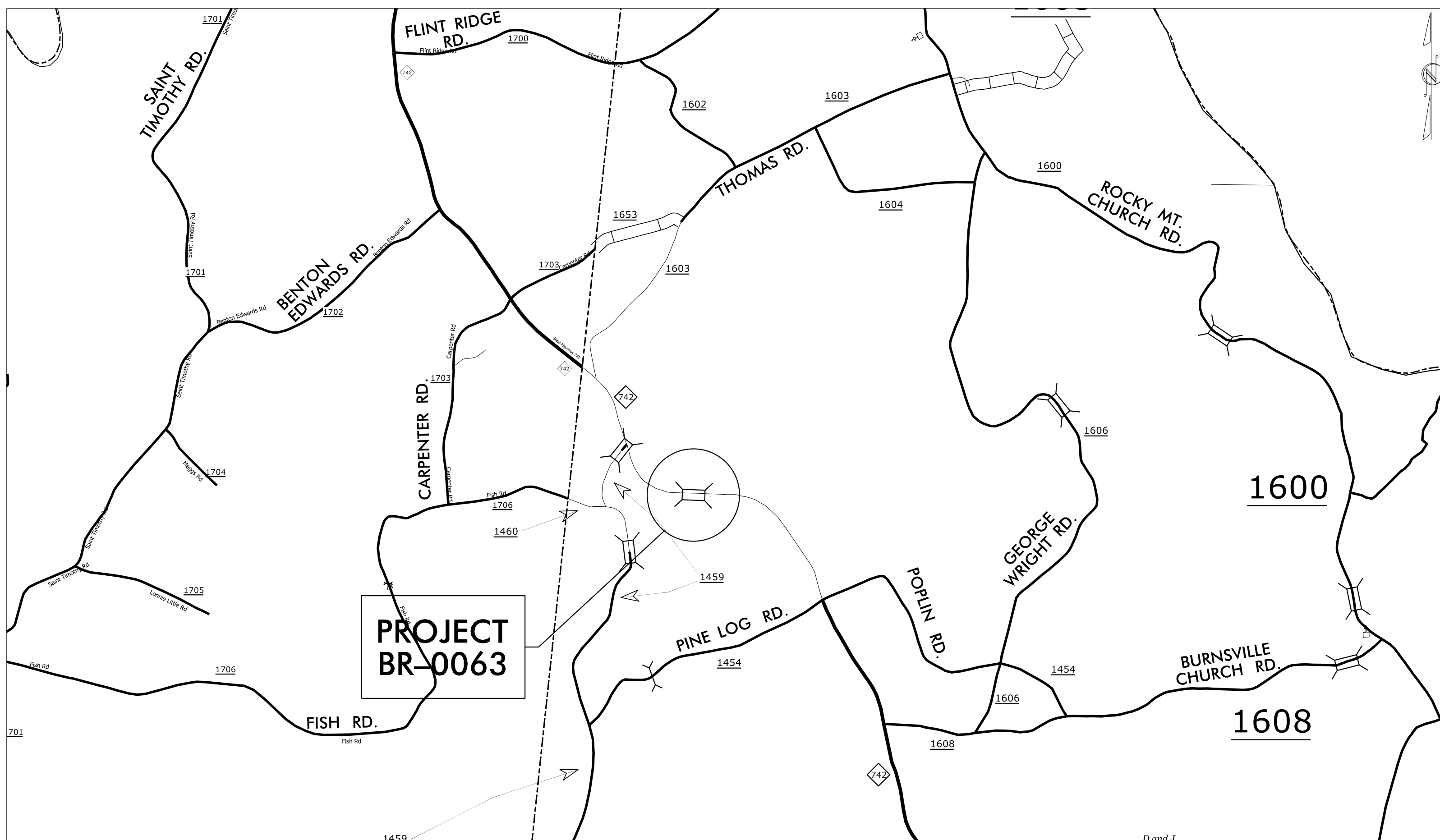
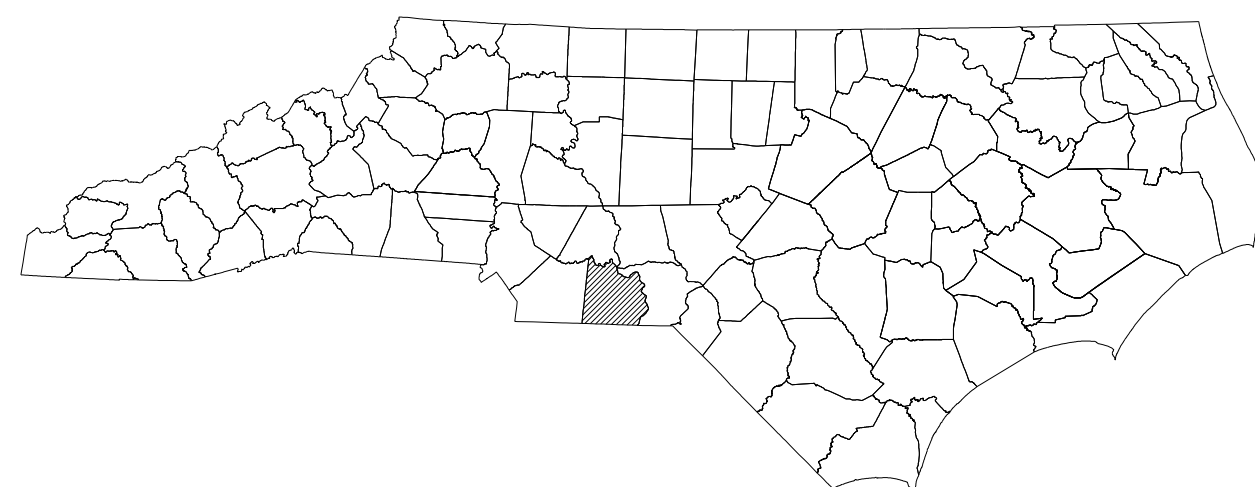


STATE OF NORTH CAROLINA  
DIVISION OF HIGHWAYS

**TRANSPORTATION MANAGEMENT PLAN**

**ANSON COUNTY**



LOCATION: BRIDGE NO. 030087 ON NC-742 OVER RICHARDSON CREEK

**INDEX OF SHEETS**

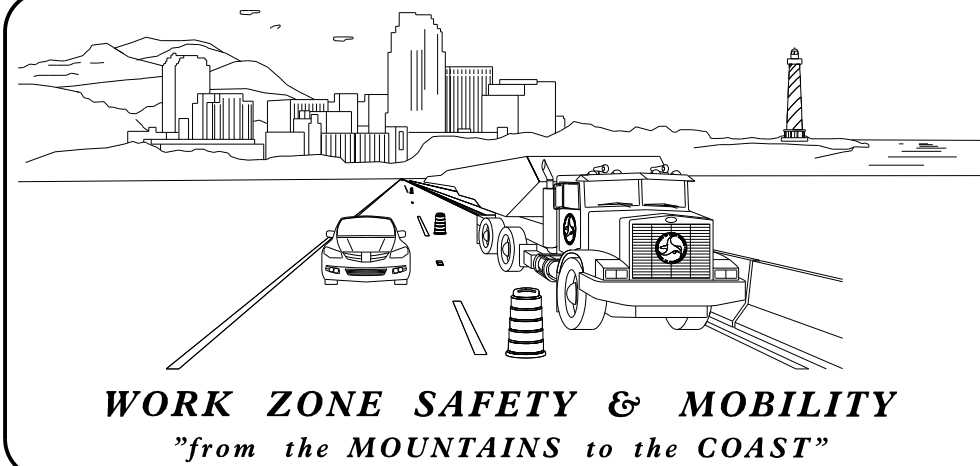
SHEET NO.	TITLE
TMP-1	TITLE SHEET, VICINITY MAP, AND INDEX OF SHEETS
TMP-1A	LIST OF APPLICABLE ROADWAY STANDARD DRAWINGS, AND LEGEND
TMP-1B-1C	TRANSPORTATION OPERATIONS PLAN: (GENERAL NOTES)
TMP-1D	OFF-SITE DETOUR
TMP-2	TEMPORARY SHORING DATA
TMP-3	TEMPORARY TRAFFIC CONTROL PHASING
TMP-4-5	TEMPORARY TRAFFIC CONTROL PHASE I DETAIL
TMP-6-7	TEMPORARY TRAFFIC CONTROL PHASE II DETAIL

SHEET NO.  
TMP-1

**BR-0063**

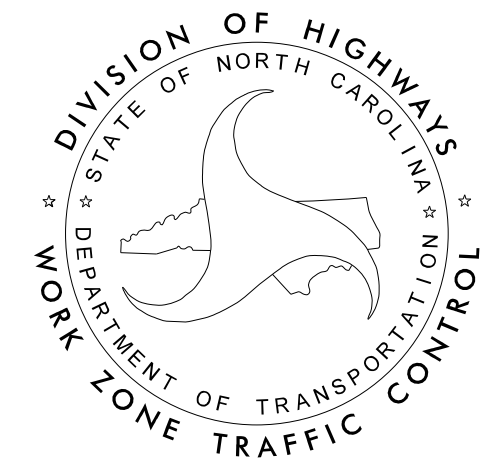
**TIP PROJECT:**

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UNLESS ALL SIGNATURES COMPLETED



PLANS PREPARED BY:  
A. Matthew Thigpen, PE  
PROJECT ENGINEER

NCDOT CONTACTS:  
Zachary Clark, PE  
PROJECT ENGINEER  
Sheena Green  
PROJECT DESIGN ENGINEER



**THIGPEN**  
ENGINEERING  
3612 Griffice Mill Road  
Raleigh, NC 27610  
License: P-1116

APPROVED: Matthew Thigpen  
DATE: 10/2/2024  
SEAL  
NORTH CAROLINA PROFESSIONAL SEAL 034343 ENGINEER MATTHEW THIGPEN

10/2/2024  
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User:Matt Thigpen

# 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 WARNING SIGNS
1101.02	TEMPORARY LANE CLOSURES
1101.03	TEMPORARY ROAD CLOSURES
1101.04	TEMPORARY SHOULDER CLOSURES
1101.05	WORK ZONE VEHICLE ACCESSES
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 MULTILANE ROADWAYS
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

# LEGEND

## GENERAL

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



## SIGNALS

- EXISTING
- PROPOSED
- TEMPORARY
- PORTABLE

## 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

- P1 WHITE EDGELINE PAINT (4")
- P13 YELLOW DOUBLE CENTER PAINT (4")

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APPROVED: DATE: 10/2/2024  DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED		ROADWAY STANDARD DRAWINGS & LEGEND
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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 UNDESIRED 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
NC-742	MONDAY THRU FRIDAY 6:00 A.M. TO 9:00 A.M. AND 4:00 P.M. TO 7:00 P.M.

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

ROAD NAME	HOLIDAY
NC-742	<ol style="list-style-type: none"> <li>FOR ANY UNEXPECTED OCCURRENCE THAT CREATES UNUSUALLY HIGH TRAFFIC VOLUMES, AS DIRECTED BY THE ENGINEER.</li> <li>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.</li> <li>FOR EASTER, BETWEEN THE HOURS OF 6:00 A.M. THURSDAY AND 7:00 P.M. MONDAY.</li> <li>FOR MEMORIAL DAY, BETWEEN THE HOURS OF 6:00 A.M. FRIDAY TO 7:00 P.M. TUESDAY.</li> <li>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.</li> <li>FOR LABOR DAY, BETWEEN THE HOURS OF 6:00 A.M. FRIDAY TO 7:00 P.M. TUESDAY.</li> <li>FOR THANKSGIVING DAY, BETWEEN THE HOURS OF 6:00 A.M. TUESDAY AND 7:00 P.M. MONDAY.</li> <li>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.</li> </ol>

## LANE AND SHOULDER CLOSURE REQUIREMENTS

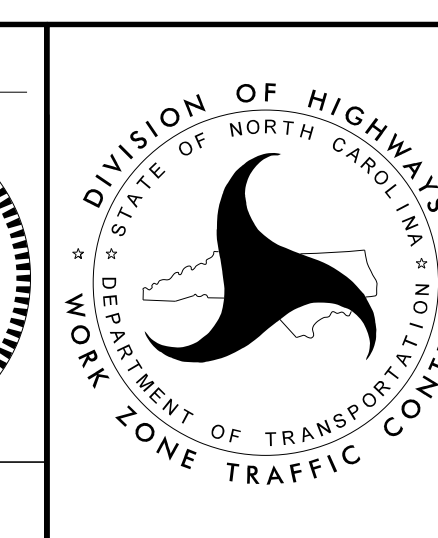
- C) REMOVE LANE CLOSURE DEVICES FROM THE LANE WHEN WORK IS NOT BEING PERFORMED BEHIND THE LANE CLOSURE OR WHEN A LANE CLOSURE IS NO LONGER NEEDED OR AS DIRECTED BY THE ENGINEER.
- D) WHEN PERSONNEL AND/OR EQUIPMENT ARE WORKING WITHIN 15 FT OF AN OPEN TRAVEL LANE, CLOSE THE NEAREST OPEN SHOULDER USING 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 ON THE SHOULDER ADJACENT TO AN UNDIVIDED FACILITY AND WITHIN 5 FT OF AN OPEN TRAVEL LANE, 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 A LANE OF TRAVEL OF AN UNDIVIDED OR DIVIDED FACILITY, CLOSE THE LANE ACCORDING TO THE TRANSPORTATION MANAGEMENT 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.
- G) 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.
- H) DO NOT INSTALL MORE THAN ONE LANE CLOSURE IN ANY ONE DIRECTION ON NC-742.
- I) PROVIDE TRAFFIC CONTROL FOR APPROPRIATE LANE CLOSURES FOR SURVEYING.

## 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 OPENED TRAVEL LANE THAT HAS AN EDGE OF PAVEMENT 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) 350 FT IN ADVANCE AND A MINIMUM OF EVERY HALF MILE THROUGHOUT THE UNEVEN AREA.

APPROVED: Matthew Thigpen  
DocuSigned by: Matthew Thigpen 7202285FD315433  
 DATE: 10/2/2024

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**TRANSPORTATION OPERATIONS PLAN: (GENERAL NOTES)**

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# GENERAL NOTES CONTINUED

## 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.

AND  
 PROVIDE SIGNING REQUIRED FOR THE OFF-SITE DETOUR ROUTE AS SHOWN IN THE TRAFFIC CONTROL PLANS.

O) COVER OR REMOVE ALL SIGNS AND DEVICES REQUIRED TO CLOSE THE ROAD WHEN ROAD CLOSURE IS NOT IN OPERATION

AND  
 COVER OR REMOVE ALL SIGNS REQUIRED FOR THE OFF-SITE DETOUR WHEN THE DETOUR IS NOT IN OPERATION.

P) ENSURE ALL NECESSARY SIGNING IS IN PLACE PRIOR TO ALTERING ANY TRAFFIC PATTERN.

Q) INSTALL BLACK ON ORANGE "DIP" SIGNS (W8-2) AND/OR "BUMP" SIGNS (W8-1) 350 FT IN ADVANCE OF THE UNEVEN AREA, OR AS DIRECTED BY THE ENGINEER.

## TRAFFIC CONTROL DEVICES

R) 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.

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

T) PLACE ADDITIONAL SETS OF THREE CHANNELIZING DEVICES (DRUMS) PERPENDICULAR TO THE EDGE OF TRAVELWAY ON 500 FT CENTERS WHEN UNOPENED LANES ARE CLOSED TO TRAFFIC.

## PAVEMENT MARKINGS AND MARKERS

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

ROAD NAME	MARKING	MARKER
NC-742	PAINT	TEMPORARY RAISED

V) 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.

W) TIE PROPOSED PAVEMENT MARKING LINES TO EXISTING PAVEMENT MARKING LINES.

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

## MISCELLANEOUS

Y) 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 GRAVE" SIGNS (W8-7) AND BLACK ON ORANGE "PAVEMENT ENDS" SIGNS (W8-3) 350 FT AND 700 FT RESPECTIVELY IN ADVANCE OF THE UNEVEN AREAS. USE DRUMS TO DELINEATE THE EDGE OF ROADWAY ALONG UNPAVED AREAS.

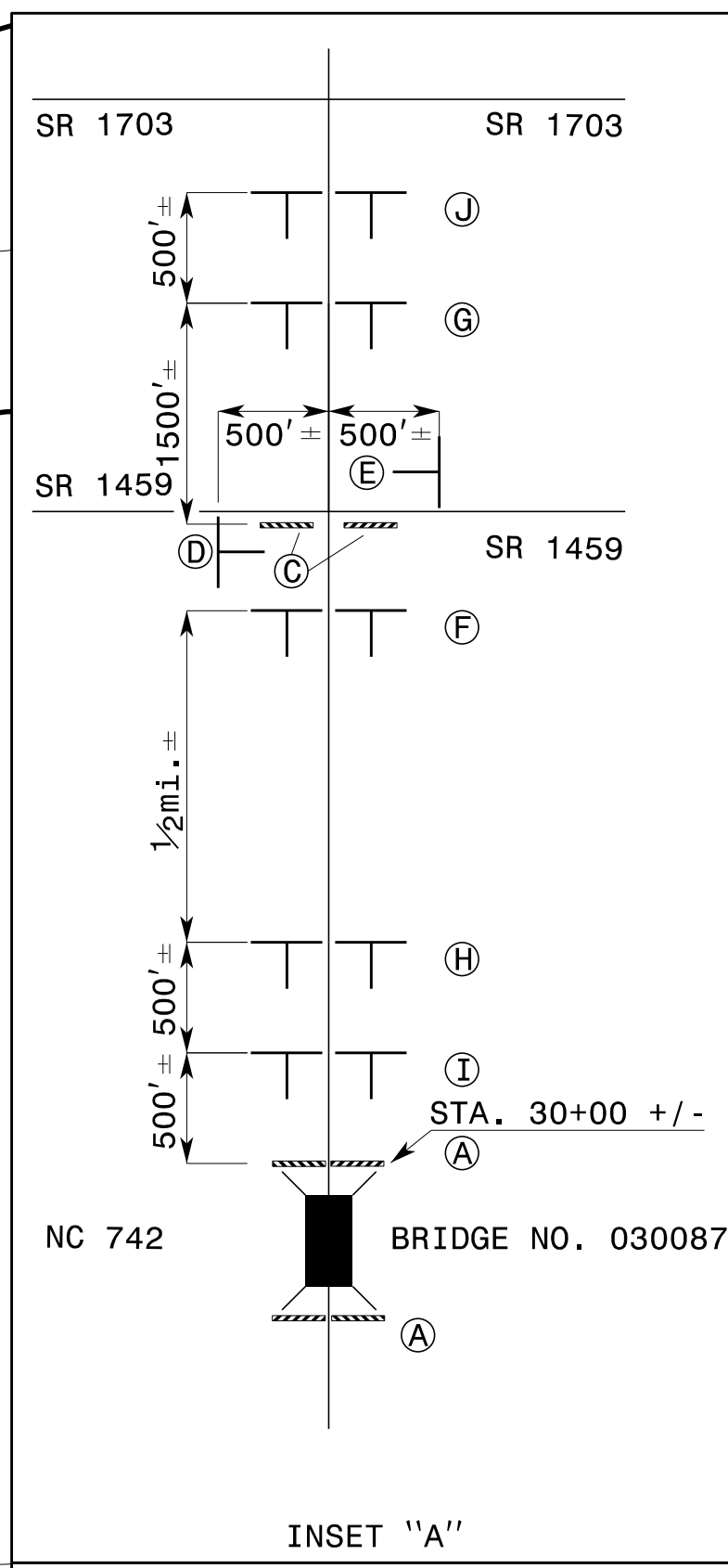
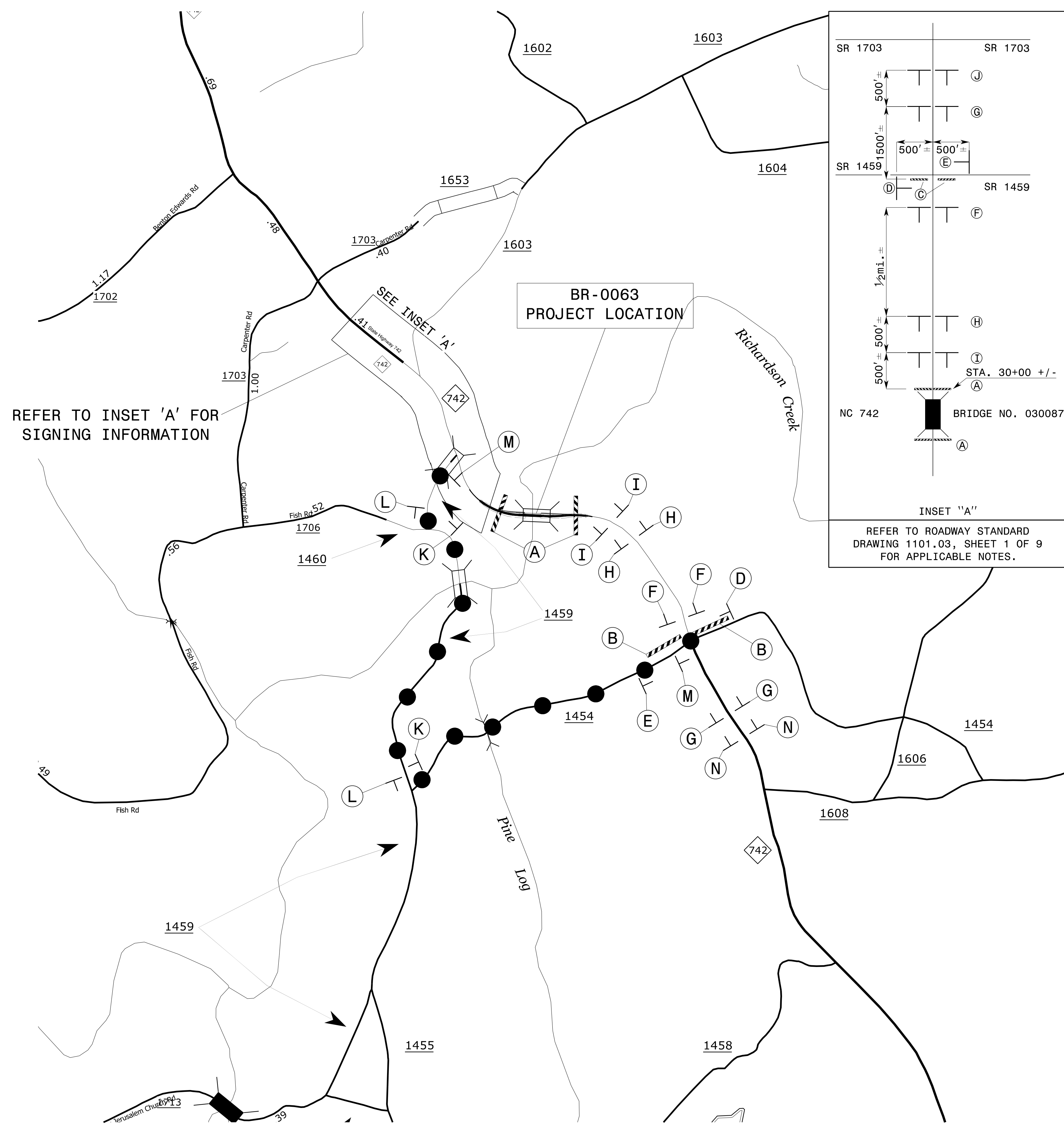
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● ● ● DETOUR ROUTE  
DETOUR ROUTE = 2.5 MILES



INSET "A"  
REFER TO ROADWAY STANDARD DRAWING 1101.03, SHEET 1 OF 9 FOR APPLICABLE NOTES.

REFER TO INSET 'A' FOR SIGNING INFORMATION

**A** R11-2 48" x 30" ROAD CLOSED

**B** R11-3 60" x 30" ROAD CLOSED 0.6 MILES AHEAD LOCAL TRAFFIC ONLY

**C** R11-3 60" x 30" ROAD CLOSED 0.2 MILES AHEAD LOCAL TRAFFIC ONLY

**D** ROAD CLOSED AHEAD W20-3 48" x 48"

**E** ROAD CLOSED AHEAD W20-3 48" x 48"

**F** ROAD CLOSED AHEAD W20-3 48" x 48"

**G** DETOUR AHEAD W20-2 48" x 48"

**H** ROAD CLOSED 1000 FT W20-3 48" x 48"

**I** ROAD CLOSED 500 FT W20-3 48" x 48"

**J** ROAD CLOSED AHEAD W20-3 48" x 48"

**K** 742 DETOUR M4-8 24" x 12"

**L** 742 DETOUR M4-8 24" x 12"

**M** END DETOUR M4-8 A 24" x 18"

**N** ROAD CLOSED AHEAD W20-3 48" x 48"

**Next Right** SP-4R 42" x 12"

**Next Left** SP-4L 42" x 12"

**0.7 MILES** W16-3P 24" x 24"

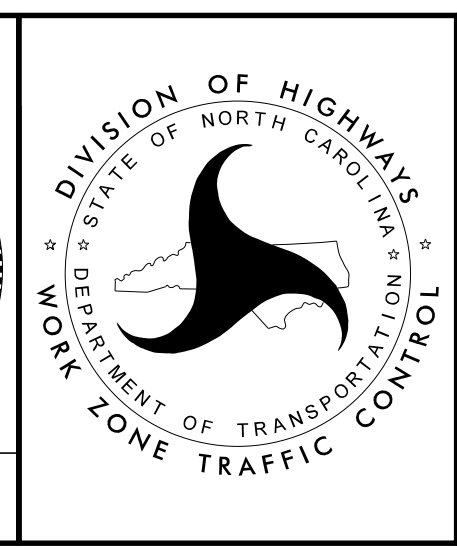
**1.0 MILES** W16-3P 24" x 24"

**M6-1** 21" x 15"

**M6-1 L** 21" x 15"

APPROVED: *Matthew Thigpen*  
DATE: 10/2/2024

SEAL 034343  
MATTHEW THIGPEN  
ENGINEER



DETOUR SIGNING

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PROJ. REFERENCE NO.	SHEET NO.
BR-0063	TMP-2



Shoring Location No. 1

FOR TEMPORARY SHORING AND POSITIVE PROTECTION FOR TEMPORARY SHORING, SEE PLANS AND TEMPORARY SHORING PROVISION.

TEMPORARY SHORING IS REQUIRED FOR THE END BENT CONSTRUCTION FROM STATION 18+38 -L-, 24.5' LT, TO STATION 18+64 -L-, 24.5' LT.

BEFORE BEGINNING TEMPORARY SHORING DESIGN OR CONSTRUCTION, SURVEY EXISTING GROUND ELEVATIONS IN THE VICINITY OF SHORING LOCATIONS TO DETERMINE ACTUAL SHORING HEIGHTS.

DESIGN TEMPORARY SHORING FROM STATION 18+38 -L-, 24.5' LT. TO STATION 18+64 -L-, 24.5' LT. FOR THE FOLLOWING ASSUMED SOIL PARAMETERS AND GROUNDWATER ELEVATION:

- UNIT WEIGHT ( $\gamma$ ) = 120 LB/CF
- FRICITION ANGLE ( $\phi$ ) = 30 DEGREES
- COHESION ( $c$ ) = 0 LB/SF
- GROUNDWATER ELEVATION = 280 FT

DRIVEN PILING FOR TEMPORARY SHORING FROM STATION 18+38 -L-, 24.5' LT, TO STATION 18+64 -L-, 24.5' LT MAY NOT PENETRATE BELOW ELEVATION 266 FT DUE TO OBSTRUCTIONS, VERY DENSE OR HARD SOIL, BOULDERS OR WEATHERED OR HARD ROCK.

DO NOT USE A TEMPORARY WALL FOR TEMPORARY SHORING FROM STATION 18+38 -L-, 24.5' LT, TO STATION 18+64 -L-, 24.5' LT.

AT THE CONTRACTOR'S OPTION, USE STANDARD TEMPORARY SHORING FOR TEMPORARY SHORING FROM STATION 18+38 -L-, 24.5' LT, TO STATION 18+64 -L-, 24.5' LT. SEE STANDARD DETAIL NO. 1801.01 FOR STANDARD TEMPORARY SHORING.

IT MAY BE PREFERRED TO USE A TEMPORARY SOIL NAIL WALL FOR TEMPORARY SHORING FROM STATION 18+38 -L-, 24.5' LT, TO STATION 18+64 -L-, 24.5' LT. FOR TEMPORARY SOIL NAIL WALLS, SEE TEMPORARY SOIL NAIL WALLS PROVISION.

Shoring Location No. 2

FOR TEMPORARY SHORING AND POSITIVE PROTECTION FOR TEMPORARY SHORING, SEE PLANS AND TEMPORARY SHORING PROVISION.

TEMPORARY SHORING IS REQUIRED FOR THE ROADWAY CONSTRUCTION FROM STATION 21+66 -L-, 26.5' LT, TO STATION 24+00 -L-, 19.5' LT.

BEFORE BEGINNING TEMPORARY SHORING DESIGN OR CONSTRUCTION, SURVEY EXISTING GROUND ELEVATIONS IN THE VICINITY OF SHORING LOCATIONS TO DETERMINE ACTUAL SHORING HEIGHTS.

DESIGN TEMPORARY SHORING FROM STATION 21+66 -L-, 26.5' LT, TO STATION 24+00 -L-, 19.5' LT, FOR THE FOLLOWING ASSUMED SOIL PARAMETERS AND GROUNDWATER ELEVATION:

- UNIT WEIGHT ( $\gamma$ ) = 120 LB/CF
- FRICITION ANGLE ( $\phi$ ) = 30 DEGREES
- COHESION ( $c$ ) = 0 LB/SF
- GROUNDWATER ELEVATION = 282 FT

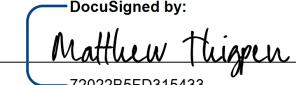
DRIVEN PILING FOR TEMPORARY SHORING FROM STATION 21+66 -L-, 26.5' LT, TO STATION 24+00 -L-, 19.5' LT MAY NOT PENETRATE BELOW ELEVATION 276 FT DUE TO OBSTRUCTIONS, VERY DENSE OR HARD SOIL, BOULDERS OR WEATHERED OR HARD ROCK.

DO NOT USE A TEMPORARY WALL FOR TEMPORARY SHORING FROM STATION 21+66 -L-, 26.5' LT, TO STATION 24+00 -L-, 19.5' LT.


AT THE CONTRACTOR'S OPTION, USE STANDARD TEMPORARY SHORING FOR TEMPORARY SHORING FROM STATION 21+66 -L-, 26.5' LT, TO STATION 24+00 -L-, 19.5' LT. SEE STANDARD DETAIL NO. 1801.01 FOR STANDARD TEMPORARY SHORING.

IT MAY BE PREFERRED TO USE A TEMPORARY SOIL NAIL WALL FOR TEMPORARY SHORING FROM STATION 21+66 -L-, 26.5' LT, TO STATION 24+00 -L-, 19.5' LT. FOR TEMPORARY SOIL NAIL WALLS, SEE TEMPORARY SOIL NAIL WALLS PROVISION.

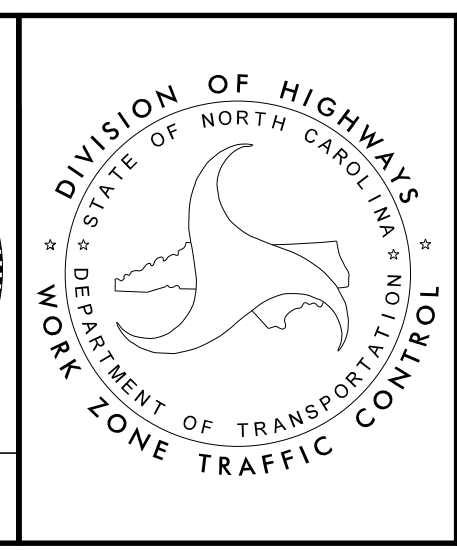
THE TEMPORARY SHORING NOTES SHOWN ON THIS SHEET WERE PROVIDED THROUGH SEALED DOCUMENTS FROM THE GEOTECHNICAL ENGINEERING UNIT. THE DOCUMENTS WERE SUBMITTED TO THE WZTC SECTION ON JUNE 6, 2024 AND SEALED BY PROFESSIONAL ENGINEER, SHIPING YANG, P.E., LICENSE # 031361

APPROVED:   
DocuSigned by:  
Matthew Thigpen  
7202285FD315433

DATE: 10/2/2024



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TEMPORARY SHORING NOTES

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PROJ. REFERENCE NO.	SHEET NO.
BR-0063	TMP-3



# PHASING

**NOTES:**

BEFORE BEGINNING ANY CONSTRUCTION ACTIVITIES, THE CONTRACTOR SHALL INSTALL ALL ADVANCE WARNING SIGNS (RSD 1101.01 SHEET 3 OF 3) AND TRAFFIC CONTROL DEVICES. FIELD VERIFY LOCATIONS WITH THE RESIDENT ENGINEER PRIOR TO INSTALLATION.

MAINTAIN VEHICULAR ACCESS TO ALL RESIDENCES AND BUSINESSES DURING THE LIFE OF THE CONTRACT, UNLESS OTHERWISE NOTED IN THE PHASING PLANS OR DIRECTED BY THE RESIDENT ENGINEER.

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

WHEN USING LANE CLOSURES (RSD 1101.02), RETURN TRAFFIC TO EXISTING AND/OR TEMPORARY TRAFFIC PATTERN UPON ACTIVITIES COMPLETION, UNLESS OTHERWISE NOTED IN THE PHASING PLANS.

WHEN PHASING STATES TO USE LANE CLOSURES, REFER TO THE FOLLOWING FOR ALL EXISTING AND PROPOSED ROADS:

-ALL TWO-LANE/TWO-WAY FACILITIES SEE RSD 1101.02 SHEET 1 OF 19

COMPLETE PAVING UP TO, BUT NOT INCLUDING, THE FINAL LAYER OF SURFACE COURSE UNTIL STATED TO PLACE FINAL LAYER IN THE PHASING PLANS.

WHEN WEDGING OVER EXISTING PAVEMENT, WEDGE TO PROPOSED ELEVATION (LESS THE FINAL LAYER OF SURFACE COURSE), OR WEDGE AS NEEDED TO MAINTAIN TRAFFIC. MAINTAIN POSITIVE DRAINAGE AND MAINTAIN A MAXIMUM 0.04 ROLLOVER IN BOTH EXISTING AND/OR TEMPORARY TRAVEL LANES.

REPLACE MARKINGS AND RETURN TRAFFIC TO THE CURRENT TRAFFIC PATTERN AT THE END OF EACH WORK PERIOD UNLESS OTHERWISE NOTED IN THE PHASING OR DIRECTED BY THE ENGINEER.

FOR ALL SHOULDER CLOSURES, SEE RSD 1101.04 SHEET 1 OF 2. WHEN PORTABLE CONCRETE BARRIER (PCB) IS PRESENT ON SHOULDERS, PLACE SHOULDER CLOSURE SIGNS & DEVICES IN ADVANCE OF PCB.

## PHASE 1

STEP 1: (SEE TMP-4 THRU TMP-5)

AWAY FROM TRAFFIC, BEHIND EXISTING GUARDRAIL AND USING RSD 1101.02, SHEET 1 OF 19 AS NEEDED, BEGIN PROPOSED BRIDGE CONSTRUCTION AND GRADING UP TO THE APPROXIMATE ELEVATION OF THE EXISTING SHOULDER.

USING RSD 1101.02, SHEET 1 OF 19 AS NEEDED, INSTALL TEMPORARY GUARDRAIL AND TEMPORARY SHORING.

INSTALL AND COVER THE OFF-SITE DETOUR SIGNING SHOWN ON SHEET TMP-1D.

STEP 2:

AWAY FROM TRAFFIC AND USING RSD 1101.02, SHEET 1 OF 19 AS NEEDED, COMPLETE CONSTRUCTION OF THE PROPOSED BRIDGE AND APPROACHES UP TO, BUT NOT INCLUDING THE FINAL LAYER OF SURFACE COURSE. CONSTRUCT WESTBOUND APPROACH FROM -L- STA. 30+30 +/- TO STA. 35+00 TO AN ELEVATION UP TO THE EXISTING EDGE OF PAVEMENT OR AS DIRECTED BY THE ENGINEER.

THE CONTRACTOR SHALL COMPLETE THE WORK OF PHASE 1, STEP 3 IN ONE WEEKEND WORKING FROM FRIDAY 7:00 P.M. TO MONDAY 6:00 A.M., SEE INTERMEDIATE CONTRACT TIMES AND LIQUIDATED DAMAGES.

STEP 3:

USING RSD 1101.03 SHEET 1 OF 9 CLOSE -L- (NC-742) AND DETOUR TRAFFIC ALONG ROUTE SHOWN ON TMP-1D.

AWAY FROM TRAFFIC, COMPLETE TIE-IN CONSTRUCTION AND PLACE TEMPORARY MARKINGS AND MARKERS IN THE PHASE 2 TRAFFIC PATTERN.

REMOVE ROAD CLOSURE DEVICES AND RE-OPEN TO THE PHASE 2 TRAFFIC PATTERN.

## PHASE 2

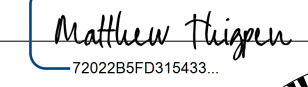
STEP 1: (SEE TMP-6 THRU TMP-7)

AWAY FROM TRAFFIC AND USING RSD 1101.02, SHEET 1 OF 19 AS NEEDED, CONSTRUCT ANY REMAINING SIDE SLOPES, PAVEMENT REMOVAL AND BRIDGE DEMOLITION.

STEP 2:

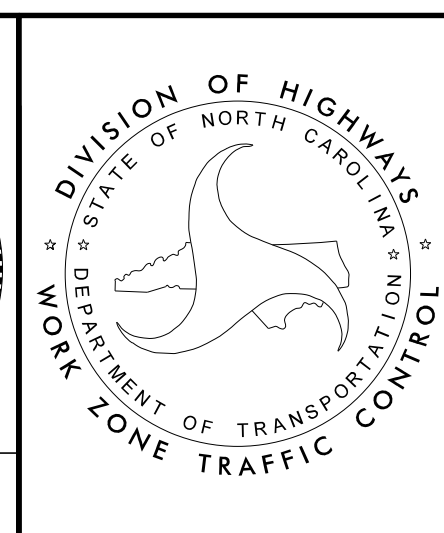
USING RSD 1101.02, SHEET 1 OF 19, CONSTRUCT THE FINAL LAYER OF SURFACE COURSE, THEN PLACE THE FINAL MARKINGS AND MARKERS AND RE-OPEN TO THE FINAL TRAFFIC PATTERN. (SEE FINAL PAVEMENT MARKING PLAN)

10/2/2024  
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User:Matt Thigpen

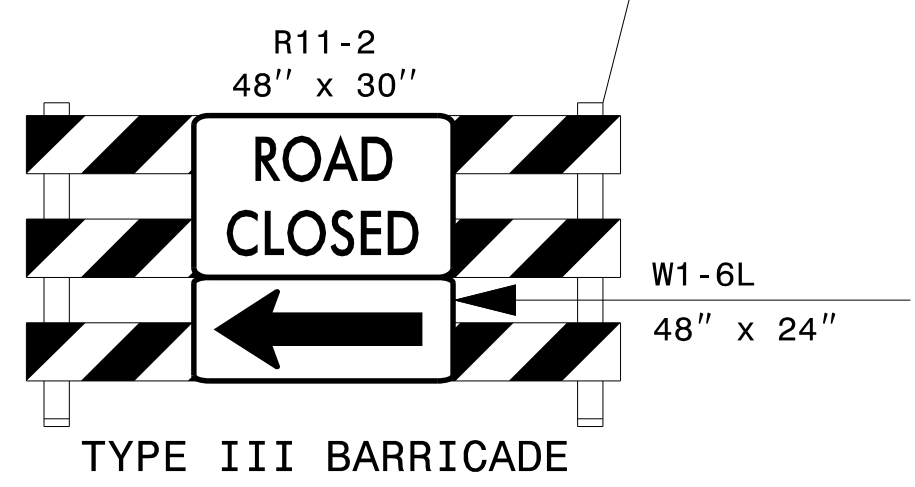
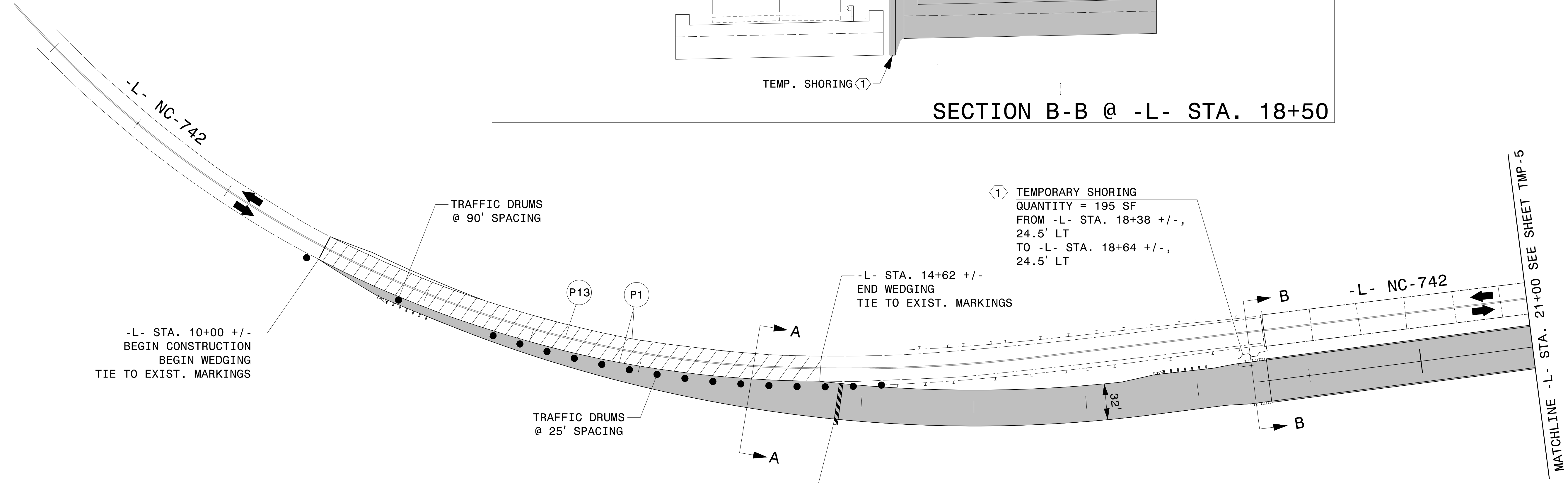
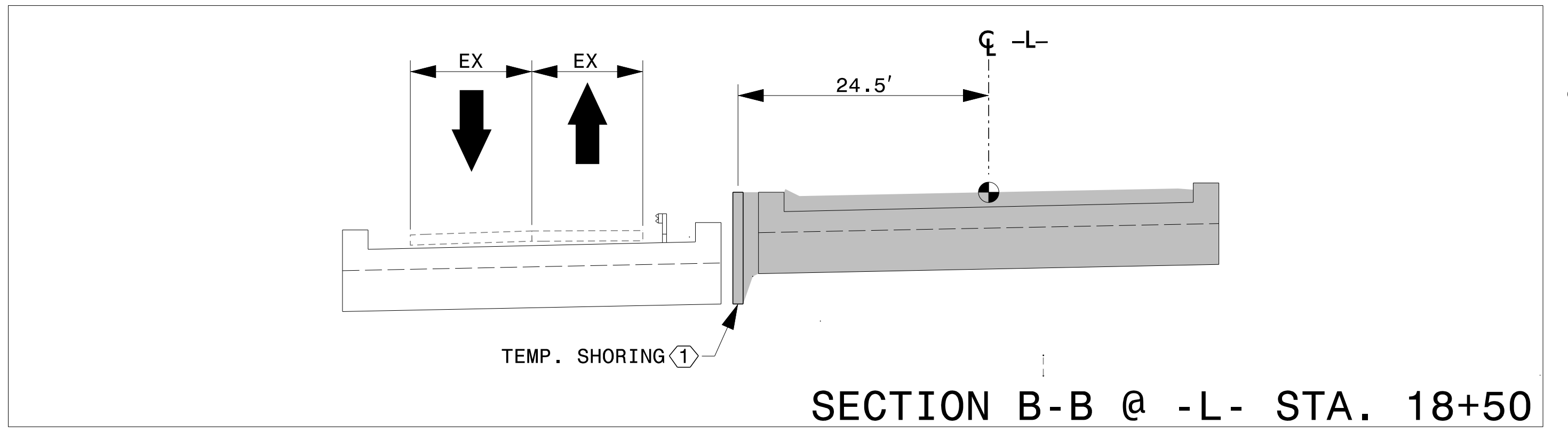
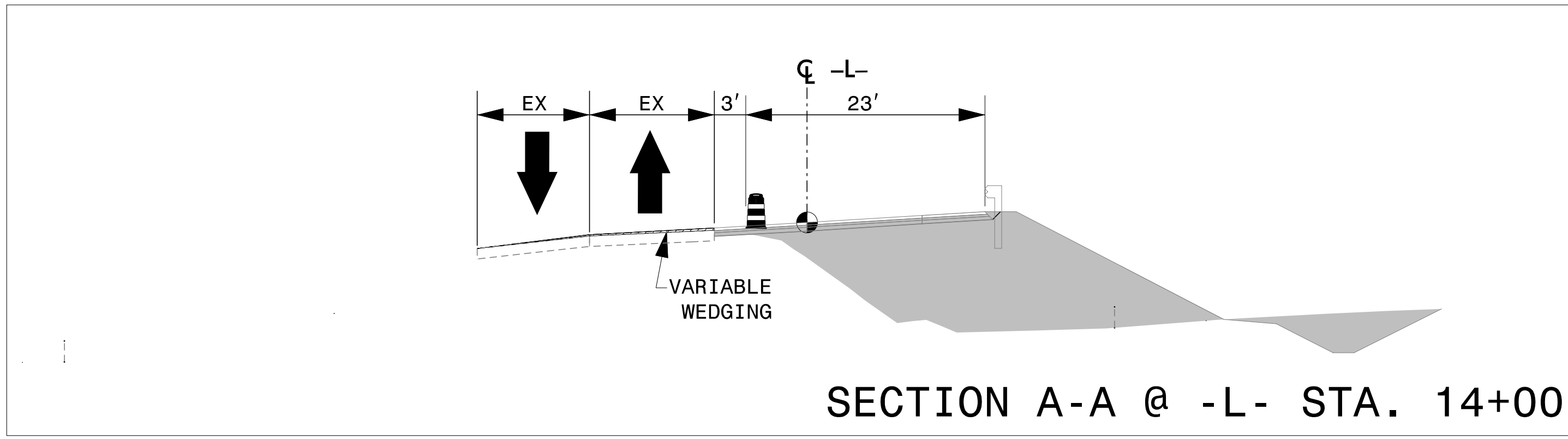
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DATE: 10/2/2024

**SEAL**  
034343  
ENGINEER  
MATTHEW THIGPEN

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**PHASING**

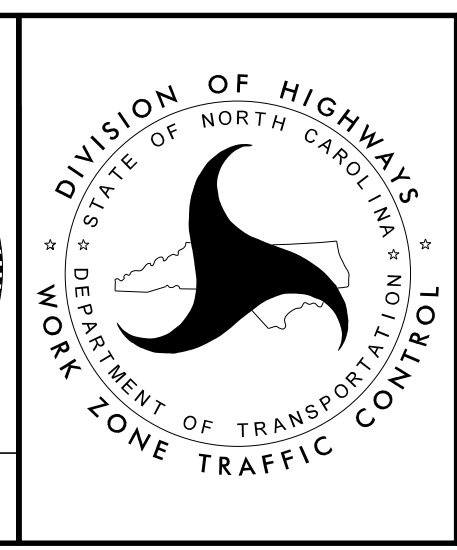


APPROVED: *Matthew Thigpen*  
DATE: 10/2/2024

DocuSigned by:  
Matthew Thigpen  
1202285FD315493

PROFESSIONAL SEAL  
034343  
ENGINEER  
MATTHEW THIGPEN

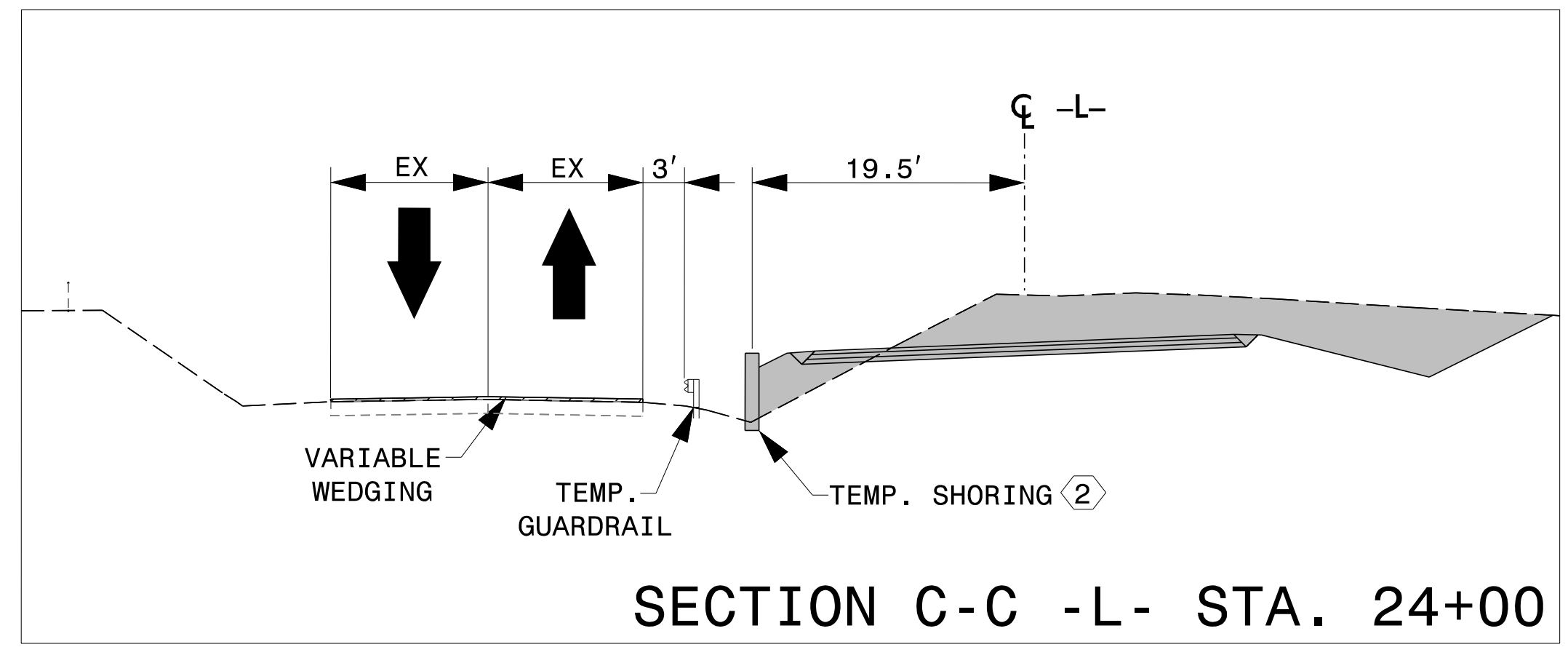
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PHASE I

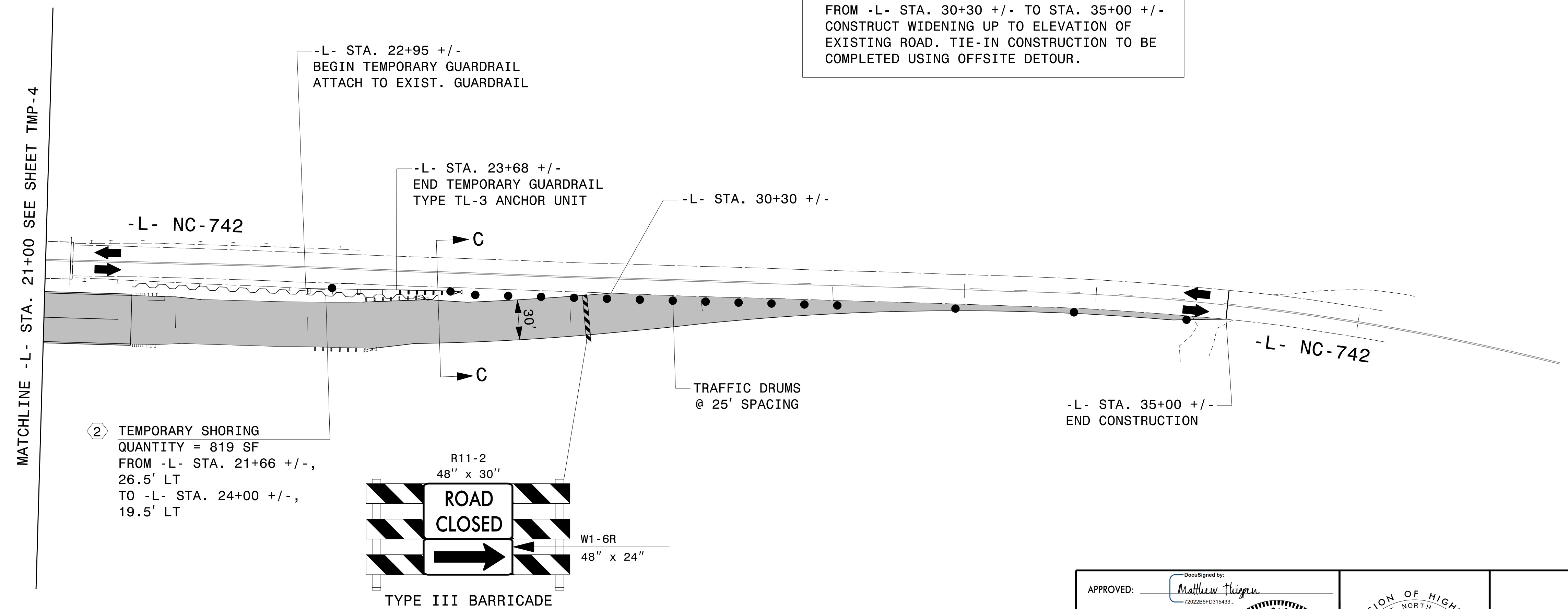
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NOTE:  
FROM -L- STA. 30+30 +/- TO STA. 35+00 +/-  
CONSTRUCT WIDENING UP TO ELEVATION OF  
EXISTING ROAD. TIE-IN CONSTRUCTION TO BE  
COMPLETED USING OFFSITE DETOUR.



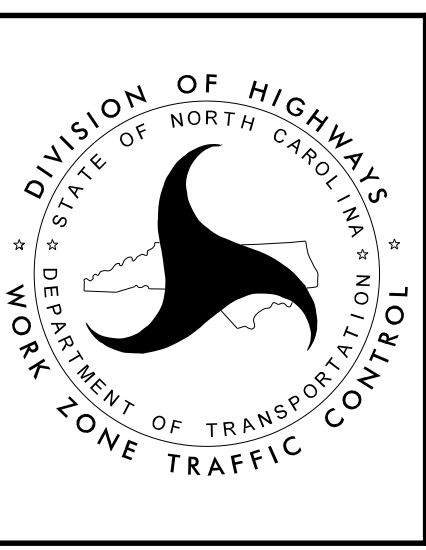
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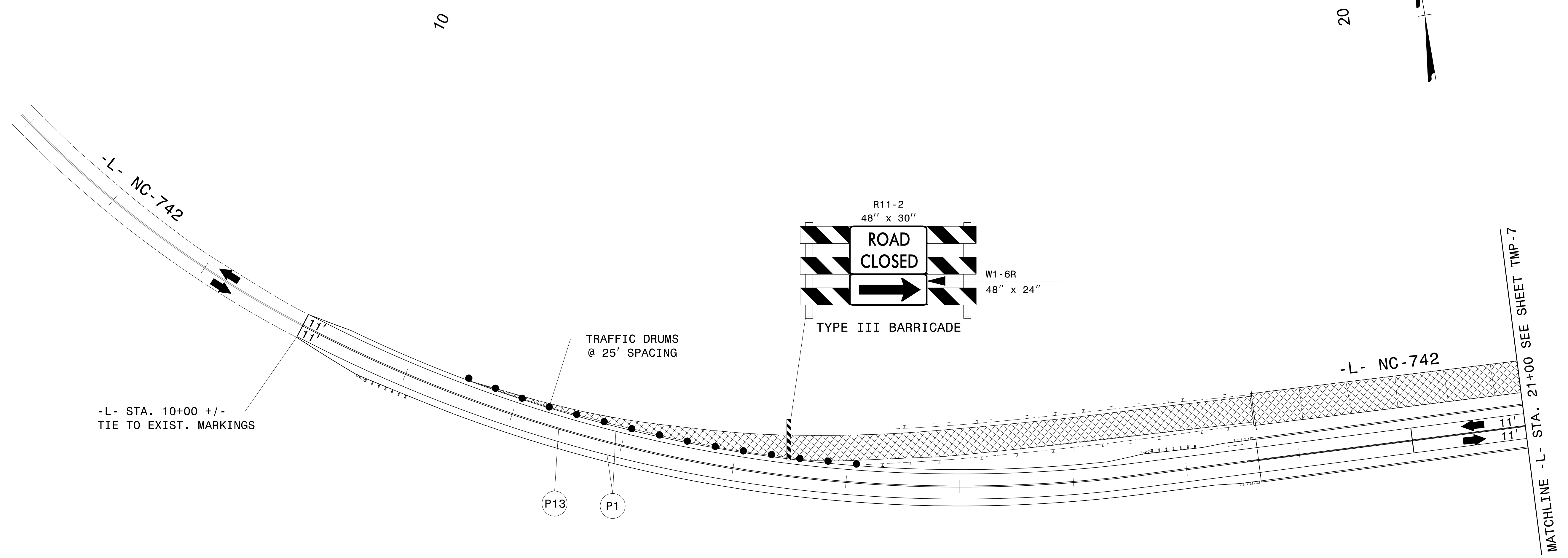
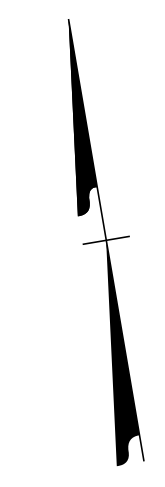


PHASE I

10/2/2024  
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User:Matt Thigpen

PROJ. REFERENCE NO.	SHEET NO.
BR-0063	TMP-6

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Raleigh, NC 27610  
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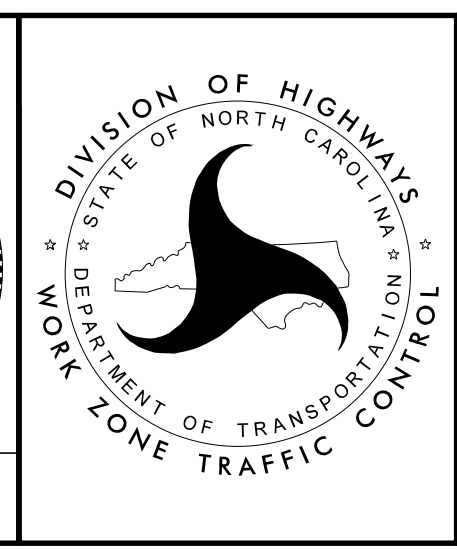


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DATE: 10/2/2024

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PHASE II

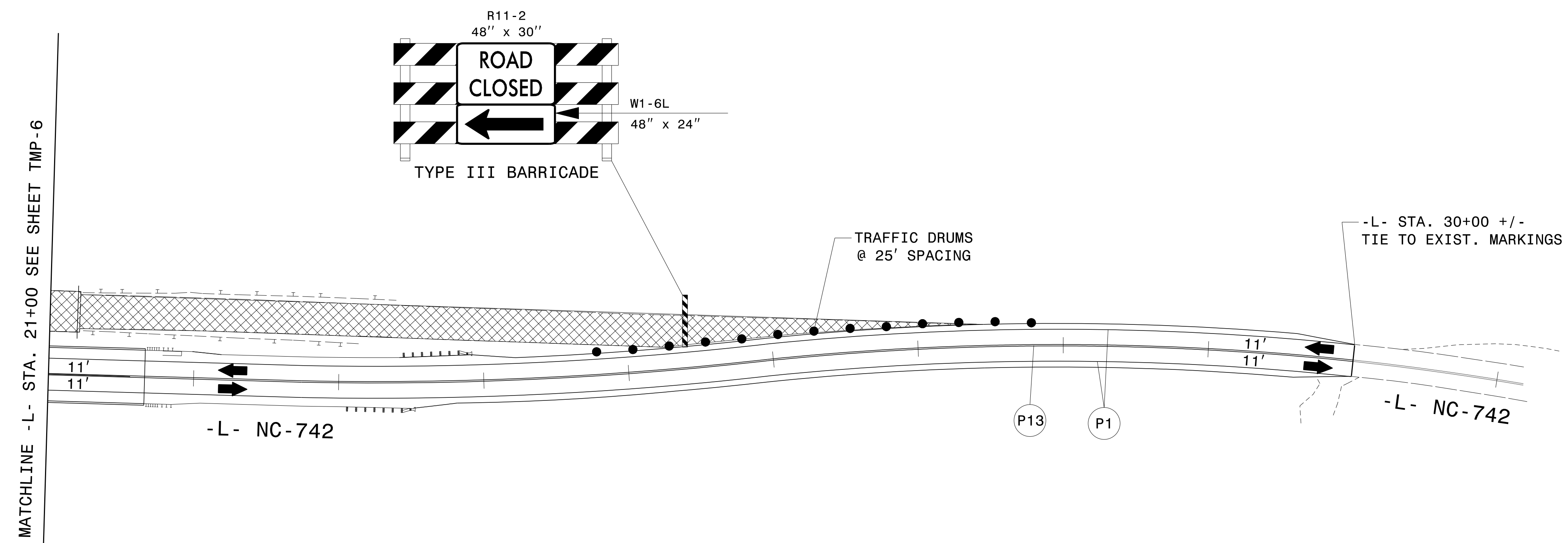


PROJ. REFERENCE NO.	SHEET NO.
BR-0063	TMP-7

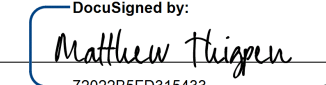
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Raleigh, NC 27610  
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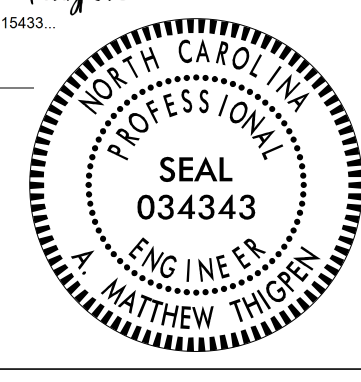
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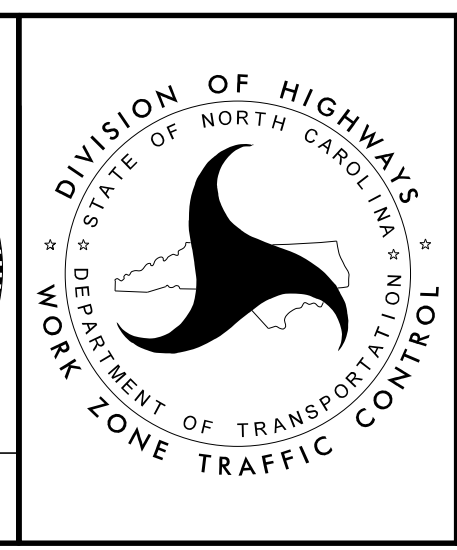
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User:Matt.Thigpen

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PHASE II