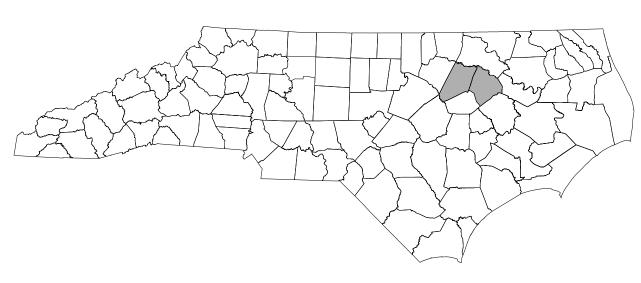
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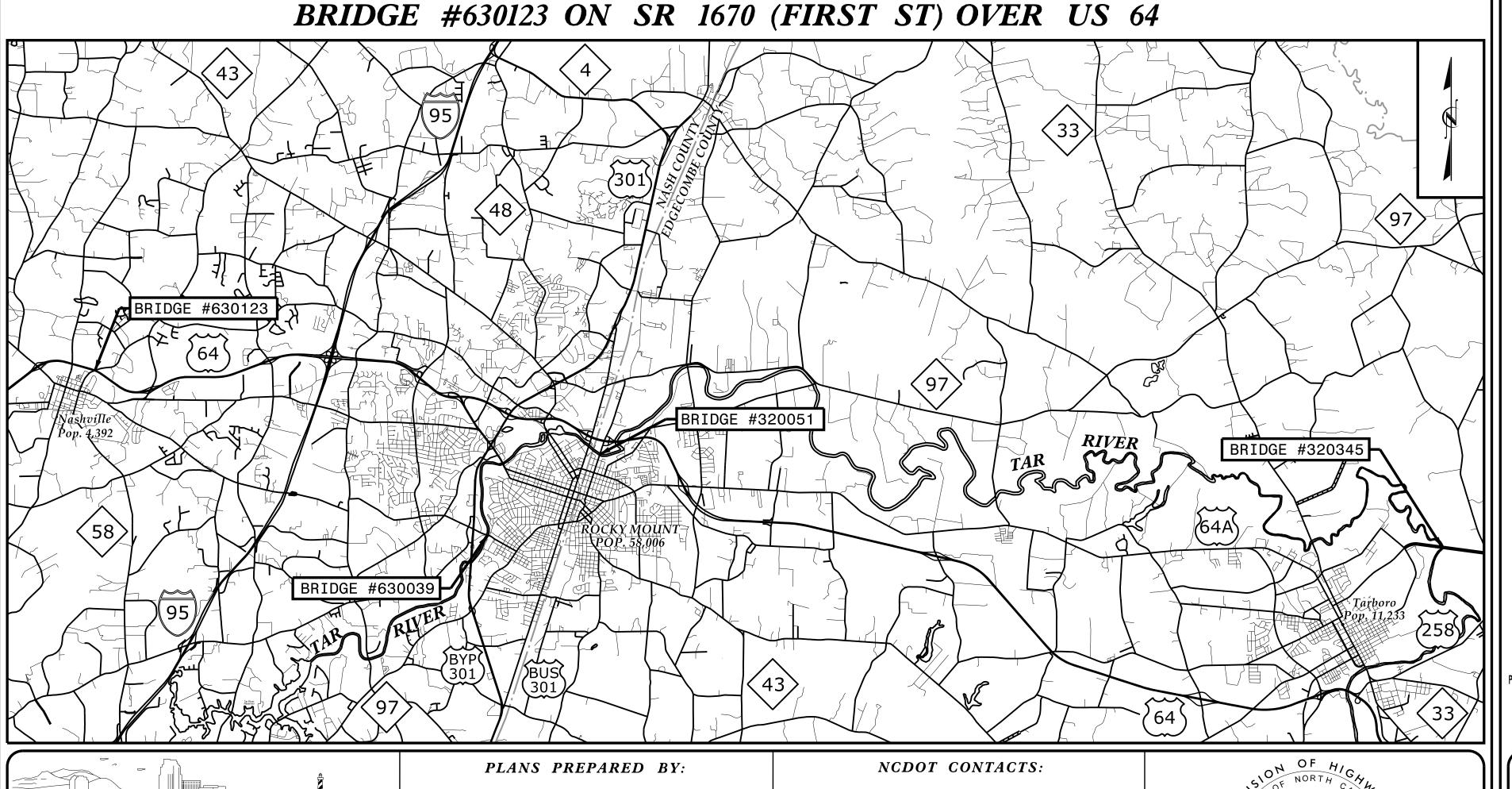
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# EDGECOMBE & NASH COUNTIES



LOCATION: BRIDGE #320051 ON NC 97 (ATLANTIC AVE) OVER TAR RIVER BRIDGE #320345 ON SR 1537 (DANIEL ST) OVER TAR RIVER BRIDGE #630039 ON SR 1714 (BETHLEHEM RD) OVER TAR RIVER



PROJECT ENGINEER

PROJECT DESIGN ENGINEER

MIKE RZEPKA, P.E.

TRAFFIC CONTROL PROJECT ENGINEER

CHRIS HARNDEN

TRAFFIC CONTROL DESIGN ENGINEER

# INDEX OF SHEETS

SHEET NO. TITLE

TITLE SHEET, VICINITY MAP, AND INDEX OF SHEETS TMP - 1

LIST OF APPLICABLE ROADWAY STANDARD DRAWINGS AND LEGEND TMP-1A

TRANSPORTATION OPERATIONS PLAN: (MANAGEMENT STRATEGIES, GENERAL NOTES, AND LOCAL NOTES) TMP-2

SPECIAL SIGN DESIGN TMP-2A

TMP-3 BRIDGE #320051 TEMPORARY TRAFFIC CONTROL DETAILS BRIDGE #320345 TEMPORARY TRAFFIC CONTROL DETAILS TMP-4

TMP-8 BRIDGE #630123 TEMPORARY TRAFFIC CONTROL DETAILS

BRIDGE #630039 TEMPORARY TRAFFIC CONTROL DETAILS

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APPROVED: Michael T. Ryepka

 $DATE: \frac{6/2/2022}{}$ 

SEAL



WORK ZONE SAFETY & MOBILITY "from the MOUNTAINS to the COAST"

ROADWAY STANDARD DRAWINGS

THE FOLLOWING ROADWAY STANDARDS AS SHOWN IN "ROADWAY STANDARD DRAWINGS" -N.C. DEPARTMENT OF TRANSPORTATION - RALEIGH, N.C., DATED JANUARY 2018 ARE APPLICABLE TO THIS PROJECT AND BY REFERENCE HEREBY ARE CONSIDERED A PART OF THESE PLANS:

| STD. NO. | <u>TITLE</u>   |
|----------|--|
|          |  |
| 1101.01  | WORK ZONE ADVANCE WARNING SIGNS                      |
| 1101.02  | TEMPORARY LANE CLOSURES                              |
| 1101.03  | TEMPORARY ROAD CLOSURES                              |
| 1101.04  | TEMPORARY SHOULDER CLOSURES                          |
| 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   |
| 1165.01  | TRUCK MOUNTED ATTENUATOR                             |
| 1180.01  | SKINNY-DRUMS   |
| 1205.01  | PAVEMENT MARKINGS - LINE TYPES AND OFFSETS           |
| 1205.02  | PAVEMENT MARKINGS - TWO-LANE AND MULTI-LANE ROADWAYS |
| 1205.04  | PAVEMENT MARKINGS - INTERSECTIONS                    |
| 1205.05  | PAVEMENT MARKINGS - TURN LANES                       |
| 1205.06  | PAVEMENT MARKINGS - LANE DROPS                       |
| 1205.08  | PAVEMENT MARKINGS - SYMBOLS AND WORD MESSAGES        |
| 1205.09  | PAVEMENT MARKINGS - PAINTED ISLANDS                  |
| 1250.01  | RAISED PAVEMENT MARKERS - INSTALLATION SPACING       |
| 1251.01  | RAISED PAVEMENT MARKERS - PERMANENT AND TEMPORARY    |

PROJ. REFERENCE NO. SHEET NO. 15BPR.47 TMP-1A

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# **LEGEND**

# **GENERAL**

DIRECTION OF TRAFFIC FLOW

——— EXIST. PVMT.

→ NORTH ARROW

— PROPOSED PVMT.

WORK AREA

# SIGNALS

EXISTING 

### TRAFFIC CONTROL DEVICES

BARRICADE (TYPE III) 

CONE

SKINNY DRUM

FLASHING ARROW BOARD

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

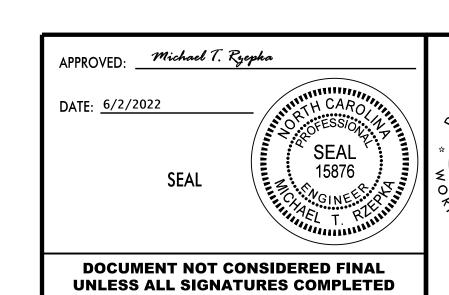
# PAVEMENT MARKING SYMBOLS

PAVEMENT MARKING SYMBOLS

# PAVEMENT MARKINGS

——EXISTING LINES

——TEMPORARY LINES



ROADWAY STANDARD DRAWINGS & LEGEND

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

DO NOT CLOSE OR NARROW TRAVEL LANES AS FOLLOWS:

ROAD NAME

DAY AND TIME RESTRICTIONS

SR 1714

WHEN SCHOOL IS IN SESSION: 6:30 AM TO 8:00 AM WHEN SCHOOL IS IN SESSION: 2:00 PM TO 3:30 PM

#### LANE AND SHOULDER CLOSURE REQUIREMENTS

- B) 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.
- 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.
- D) 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.

WHEN PERSONNEL AND/OR EQUIPMENT ARE WORKING ON THE SHOULDER ADJACENT TO A DIVIDED FACILITY AND WITHIN 10 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.

#### TRAFFIC PATTERN ALTERATIONS

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

#### SIGNING

- F) 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.
- PROVIDE SIGNING AND DEVICES REQUIRED TO CLOSE THE ROAD ACCORDING TO THE ROADWAY STANDARD DRAWINGS TRAFFIC CONTROL PLANS.

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

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

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

- I) ENSURE ALL NECESSARY SIGNING IS IN PLACE PRIOR TO ALTERING ANY TRAFFIC PATTERN.
- J) INSTALL BLACK ON ORANGE "DIP" SIGNS (W8-2) AND/OR "BUMP" SIGNS (W8-1) [LENGTH] IN ADVANCE OF THE UNEVEN AREA, OR AS DIRECTED BY THE ENGINEER.

#### TRAFFIC CONTROL DEVICES

- K) 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.
- L) PLACE TYPE III BARRICADES, WITH "ROAD CLOSED" SIGN R11-2 ATTACHED, OF SUFFICIENT LENGTH TO CLOSE ENTIRE ROADWAY
- M) PLACE ADDITIONAL SETS OF THREE CHANNELIZING DEVICES PERPENDICULAR TO THE EDGE OF TRAVELWAY ON 500 FT CENTERS WHEN UNOPENED LANES ARE CLOSED TO TRAFFIC.

#### PAVEMENT MARKINGS AND MARKERS

- N) PRIOR TO DECK REHABILITATION, RECORD EXISTING PAVEMENT MARKING LOCATIONS FOR USE IN PLACING TEMPORARY AND FINAL PAVEMENT MARKINGS.
- O) INSTALL TEMPORARY PAVEMENT MARKINGS ON INTERIM LAYERS OF PAVEMENT AS FOLLOWS:

MARKING MARKER ROAD NAME ALL ROADS PAINT

- P) 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.
- Q) TIE PROPOSED PAVEMENT MARKING LINES TO EXISTING PAVEMENT MARKING LINES.
- R) REMOVE/REPLACE ANY CONFLICTING/DAMAGED PAVEMENT MARKINGS AND MARKERS BY THE END OF EACH DAY'S OPERATION.
- S) TRACE THE PROPOSED MONOLITHIC ISLAND LOCATIONS WITH PROPER COLOR PAVEMENT MARKINGS PRIOR TO INSTALLATIONS. PLACE DRUMS TO DELINEATE ANY MONOLITHIC ISLANDS.

#### MISCELLANEOUS

T) LAW ENFORCEMENT MAY BE USED TO MAINTAIN TRAFFIC THROUGH THE WORK AREA AND/OR INTERSECTIONS AS DIRECTED BY THE ENGINEER.

SHEET NO. PROJ. REFERENCE NO. 15BPR.47 TMP-2

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# MANAGEMENT STRATEGIES

THE FOLLOWING LISTED WORK ZONE STRATEGIES ARE RECOMMENDED FOR INCLUSION WITHIN THIS TRANSPORTATION MANAGEMENT PLAN (TMP).

RECOMMENDED STRATEGIES:

TRAFFIC MANAGEMENT STRATEGIES:

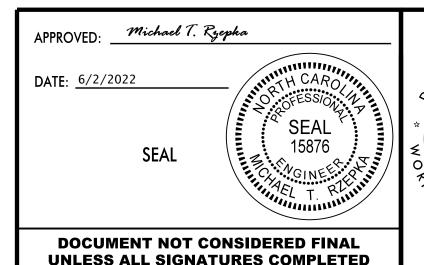
FULL ROADWAY CLOSURES LANE SHIFTS OR CLOSURES SHOULDER CLOSURES OFF-SITE DETOURS / USE OF ALTERNATIVE ROUTES

TRAFFIC / INCIDENT MANAGEMENT & SPEED ENFORCEMENT STRATEGIES:

LOCAL DETOUR ROUTES

CONTRACTING & INNOVATIVE CONTRUCTION STRATEGIES:

INTERMEDIATE CONTRACT TIMES / LIQUIDATED DAMAGES





TRANSPORTATION OPERATIONS PLAN

PROJ. REFERENCE NO. SHEET NO. 15BPR.47 TMP-2A

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SIGN NUMBER: SP-01 BACKG COLOR: Fluorescent Orange COPY COLOR: Black TYPE: STATIONARY QUANTITY: SEE PLANS SYMBOL WID HT SIGN WIDTH: 3'-6" **HEIGHT:** 2'-0" TOTAL AREA: 7.0 Sq.Ft. **BORDER TYPE: RECESSED** 

MAT'L: 0.080" (2.0 mm) ALUMINUM

USE NOTES: 1,2

- Legend and border shall be direct applied black non-reflective sheeting.
- 2. Background shall be NC GRADE B fluorescent orange retroreflective sheeting.

DESIGN BY: R DRAYTON CHECKED BY: R KING May 26, 2022 DIV: 4 PROJECT ID: 15BPR.47 **42**" 3.75" N FIRST 6"D 24" 4.5" STREET 6"D 5.95" **BORDER** 30.1" R=1.5''TH=0.63" IN=0.38"

Spacing Factor is 1 unless specified otherwise

# LETTER POSITIONS

**RECESS: 0.38**"

WIDTH: 0.63" **RADII:** 1.5"

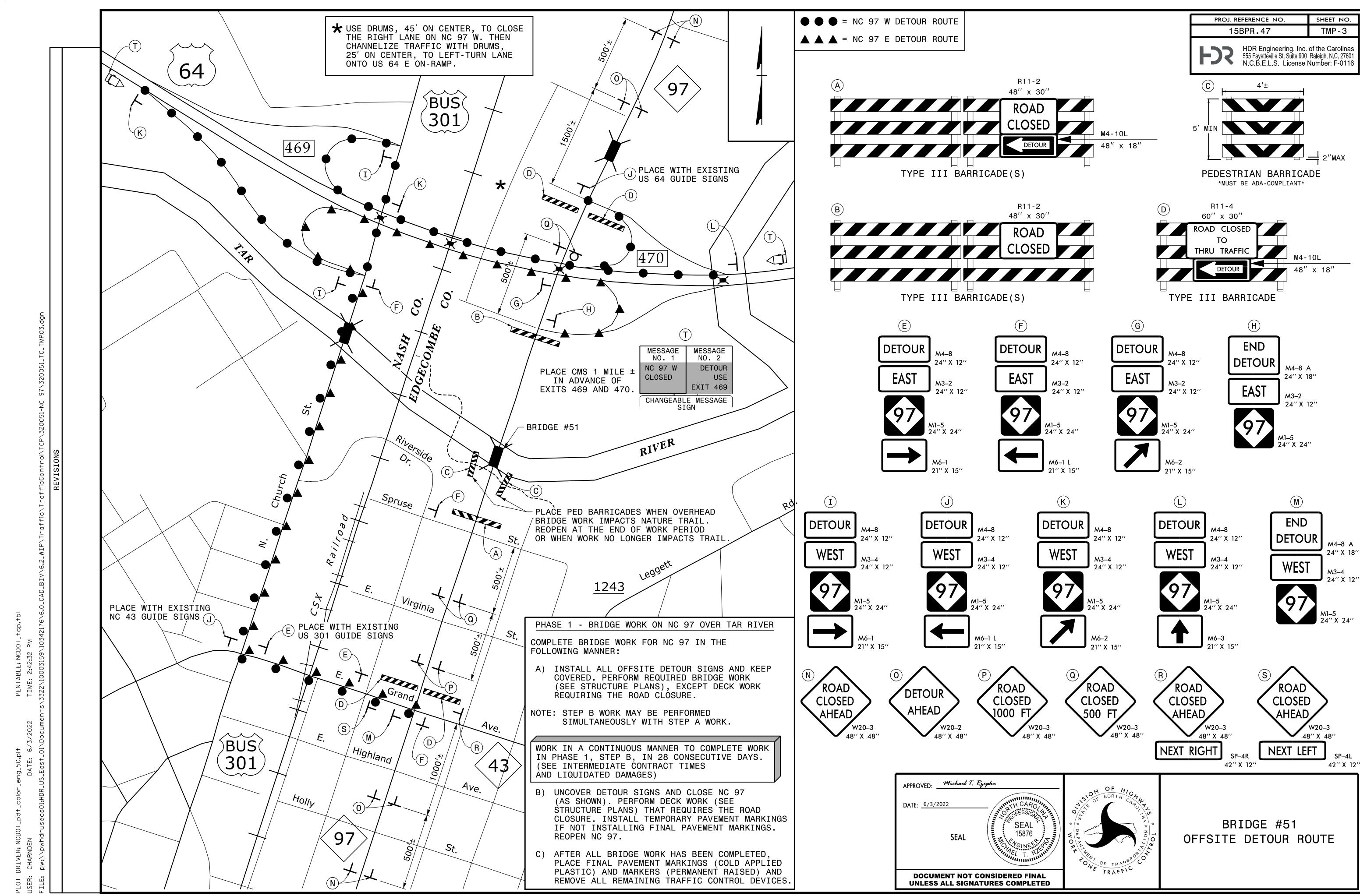
|       |   |     |     |     |     |     |     | Lattar | enac. | inge an | 0 +0 0 | tart of | nov+ 14 | attar |                        | Series/S |
|-------|---|-----|-----|-----|-----|-----|-----|--------|-------|---------|--------|---------|---------|-------|------------------------|----------|
|       | Letter spacings are to start of next letter |     |     |     |     |     |     |        |       |         |        |         |         |       | Text Leng <sup>-</sup> |          |
|       | N   |     | F   | I   | R   | S   | Т   |        |       |         |        |         |         |       |                        | D 200    |
| 6 4   | .1  | 6   | 4.6 | 2.4 | 4.7 | 4.6 | 3.7 | 6      |       |         |        |         |         |       |                        | 30.1     |
|       | S   | Т   | R   | E   | E   | Т   |     |        |       |         |        |         |         |       |                        | D 200    |
| 7.5 4 | .6  | 4.6 | 5.1 | 4.7 | 4.2 | 3.7 | 7.5 |        |       |         |        |         |         |       |                        | 26.9     |
|       |   |     |     |     |     |     |     |        |       |         |        |         |         |       |                        |          |
|       |   |     |     |     |     |     |     |        |       |         |        |         |         |       |                        |          |
|       |   |     |     |     |     |     |     |        |       |         |        |         |         |       |                        |          |
|       |   |     |     |     |     |     |     |        |       |         |        |         |         |       |                        |          |
|       |   |     |     |     |     |     |     |        |       |         |        |         |         |       |                        |          |
|       |   |     |     |     |     |     |     |        |       |         |        |         |         |       |                        |          |
|       |   |     |     |     |     |     |     |        |       |         |        |         |         |       |                        |          |
|       |   |     |     |     |     |     |     |        |       |         |        |         |         |       |                        |          |
|       |   |     |     |     |     |     |     |        |       |         |        |         |         |       |                        |          |

APPROVED: \_ Kon king DATE: 6/2/2022 DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED



SPECIAL SIGN DESIGN

PENTABLE: NCDOT\_tcp.tbl TIME: 10:59:49 AM ts\3322\10003159\10342176\6.0\_CAD\_BIM\



NOTES: 1. ANY BRIDGE WORK THAT DOES NOT IMPACT TRAFFIC, MAY BE PERFORMED CONCURRENTLY WITH PHASE 1 AND/OR PHASE 2 WORK.

2. WORK IN PHASE 1 AND PHASE 2 MAY BE COMPLETED IN ANY ORDER.

PHASE 1 - BRIDGE WORK ON SR 1537 OVER THE TAR RIVER

COMPLETE BRIDGE WORK FOR EASTBOUND LANE IN THE FOLLOWING MANNER:

- A) USE RSD 1101.02, SHEET 1 OF 14 (FLAGGER OPERATION) TO CLOSE THE EASTBOUND LANE OF SR 1537.
- B) PERFORM WORK (SEE STRUCTURE PLANS).

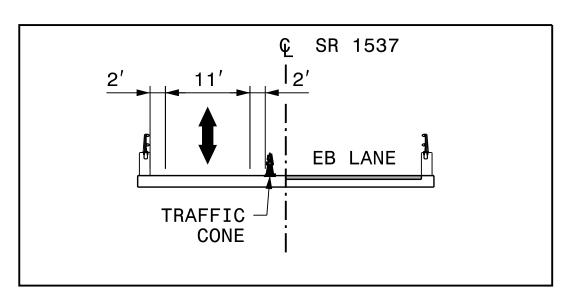
PHASE 2 - BRIDGE WORK ON SR 1537 OVER THE TAR RIVER

COMPLETE BRIDGE WORK FOR WESTBOUND LANE IN THE FOLLOWING MANNER:

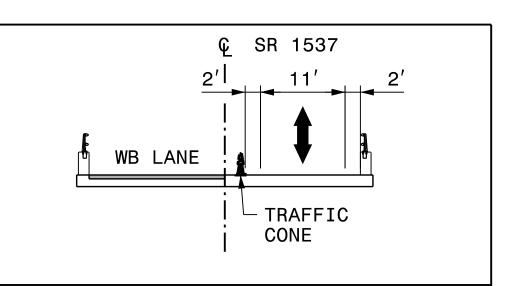
- A) USE RSD 1101.02, SHEET 1 OF 14 (FLAGGER OPERATION) TO CLOSE THE WESTBOUND LANE OF SR 1537.
- B) PERFORM WORK (SEE STRUCTURE PLANS).

AFTER ALL BRIDGE WORK HAS BEEN COMPLETED, PLACE FINAL PAVEMENT MARKINGS (COLD APPLIED PLASTIC) AND REMOVE ALL REMAINING TRAFFIC CONTROL DEVICES.

PHASE 1



PHASE 2



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BRIDGE #345

PROJ. REFERENCE NO.

15BPR.47

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SHEET NO.

TMP-4

