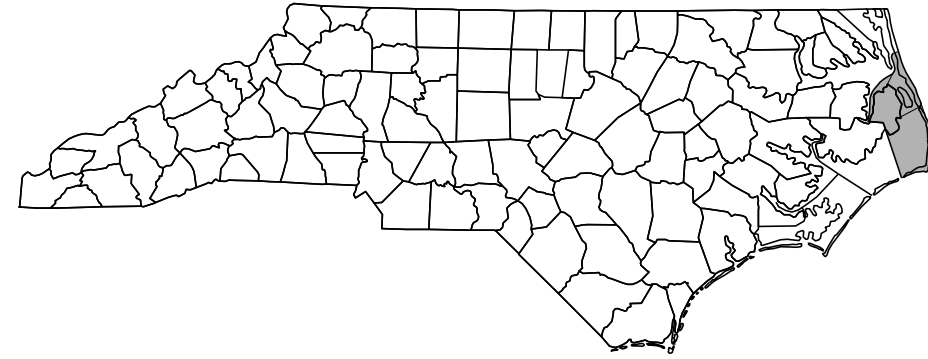


STATE OF NORTH CAROLINA  
DIVISION OF HIGHWAYS

**TRANSPORTATION MANAGEMENT PLAN**

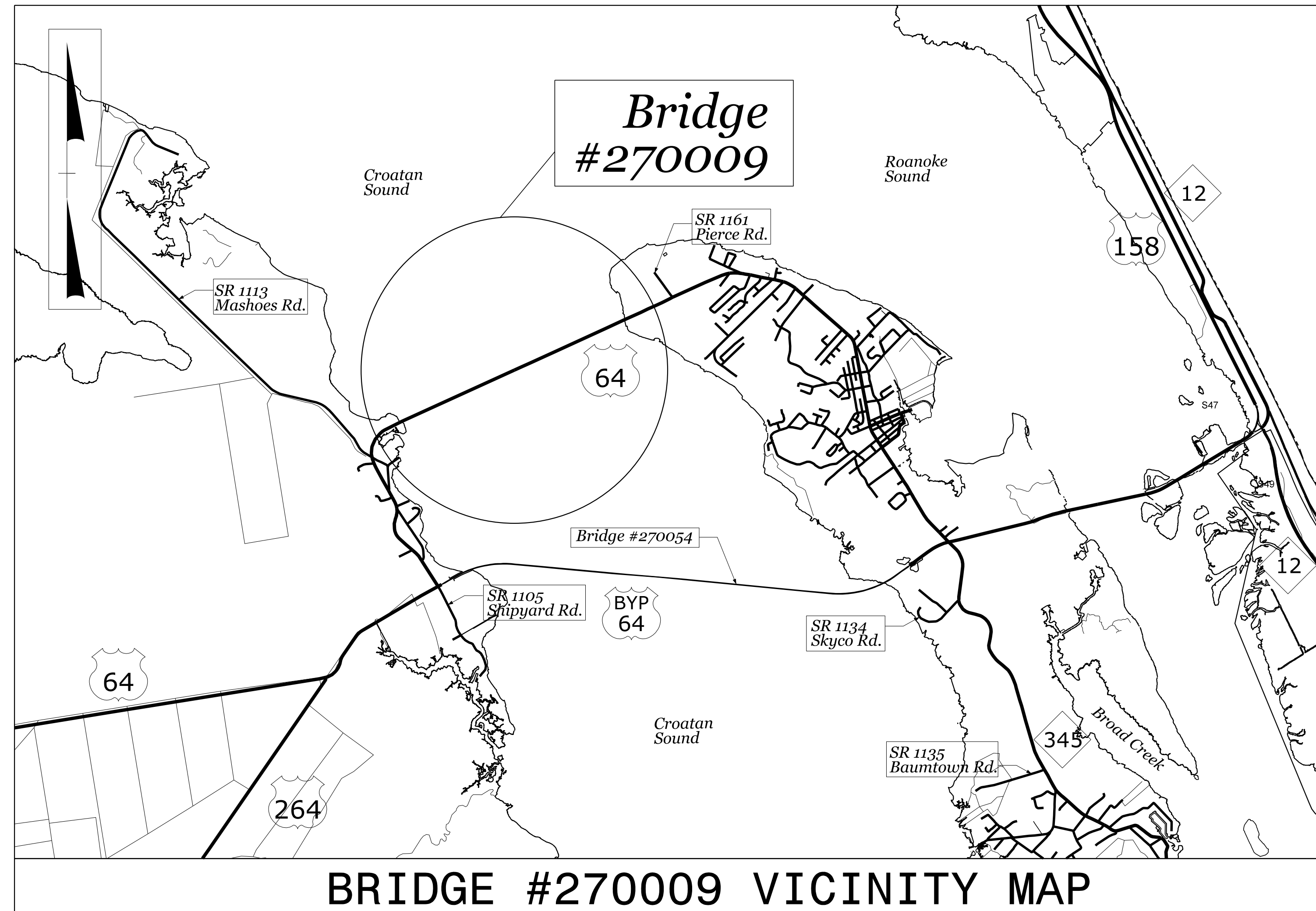
**DARE COUNTY**

**DIVISION 1**



**LOCATION:** **DARE COUNTY:**  
**BRIDGE #270009 ON US HWY. 64 OVER CROATAN SOUND**

**TYPE OF WORK:** **TRAFFIC MANAGEMENT FOR BRIDGE REHABILITATION**



**BRIDGE #270009 VICINITY MAP**

**INDEX OF SHEETS**

SHEET NO.	TITLE
TMP-1	TITLE SHEET, INDEX OF SHEETS, VICINITY MAP, AND TRAFFIC MANAGEMENT STRATEGY
TMP-2	GENERAL NOTES
TMP-3	LIST OF ROADWAY STANDARD DRAWINGS, TRAFFIC CONTROL PHASING AND LEGEND
TMP-4 TO TMP-7	BRIDGE NO. 270009 ROAD CLOSURE AND DETOUR ROUTE
TMP-8	ROADWAY STD. 1101.03 SHEET 1 OF 9
TMP-9	ROADWAY STD. 1101.02 SHEET 1 OF 14

SHEET NO.  
TMP-1


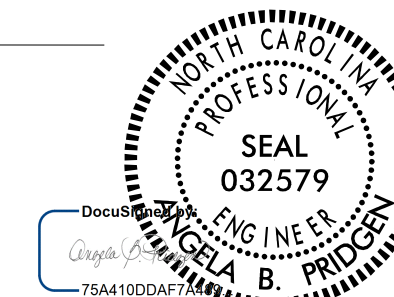
**TRAFFIC MANAGEMENT STRATEGY**

REHABILITATION ON BRIDGE #270009 IN DARE COUNTY WILL BE PERFORMED USING TEMPORARY LANE CLOSURES AND ROAD CLOSURE AND DETOUR.  
DETOUR WILL ROUTE OVER BRIDGE #270054 ON US 64 BYPASS.

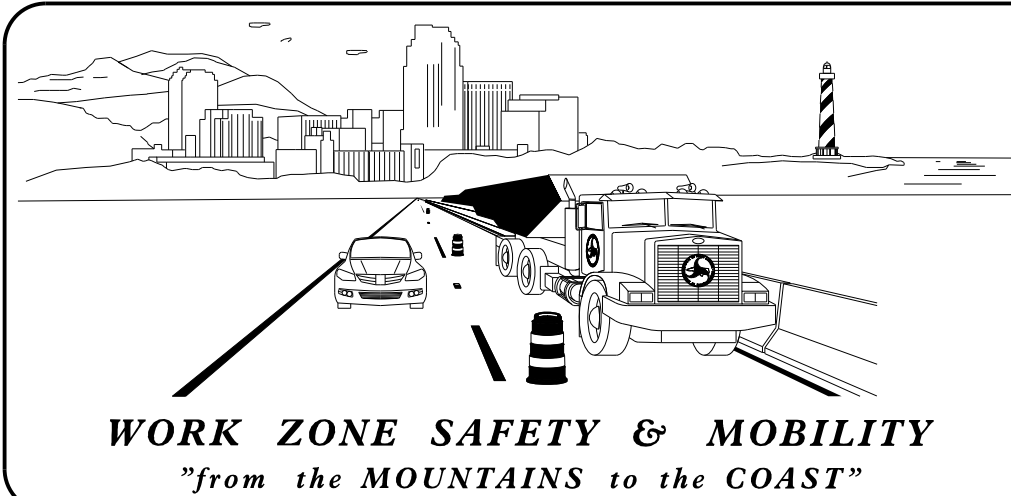
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**N.C.D.O.T. WORK ZONE TRAFFIC CONTROL**  
1561 MAIL SERVICE CENTER (MSC) RALEIGH, NC 27699-1561  
750 N. GREENFIELD PARKWAY, GARNER, NC 27529 (DELIVERY)  
PHONE: (919) 814-5000 FAX: (919) 771-2745

J. E. Hummer, PhD, PE **STATE TRAFFIC MANAGEMENT ENGINEER**

Angela B. Pridgen, PE **TRAFFIC CONTROL PROJECT ENGINEER**

Benjamin A. White, PE **TRAFFIC CONTROL PROJECT DESIGN ENGINEER**

\_\_\_\_\_ **TRAFFIC CONTROL DESIGN ENGINEER**



**WBS ELEMENT: HB-0017**

# 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
US 64	MAY 15TH TO OCTOBER 15TH AND 30 MINUTES BEFORE SUNSET TO 30 MINUTES AFTER SUNRISE MONDAY THRU SUNDAY

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

#### ROAD NAME

US 64

#### HOLIDAY

- FOR UNEXPECTED OCCURRENCE THAT CREATES UNUSUALLY HIGH TRAFFIC VOLUMES, AS DIRECTED BY THE ENGINEER.
- FOR NEW YEAR'S DAY, BETWEEN THE HOURS OF 7:00 A.M. DECEMBER 31st TO 8:00 P.M. JANUARY 2ND. IF NEW YEAR'S DAY IS ON A FRIDAY, SATURDAY, SUNDAY, OR MONDAY, THEN UNTIL 8:00 P.M. THE FOLLOWING TUESDAY.
- FOR EASTER, BETWEEN THE HOURS OF 7:00 A.M. THURSDAY AND 8:00 P.M. MONDAY.
- FOR THANKSGIVING DAY, BETWEEN THE HOURS OF 7:00 A.M. TUESDAY AND 8:00 P.M. MONDAY.
- FOR CHRISTMAS, BETWEEN THE HOURS OF 7:00 A.M. THE FRIDAY BEFORE THE WEEK OF CHRISTMAS DAY AND 8:00 P.M. THE FOLLOWING TUESDAY AFTER THE WEEK OF CHRISTMAS DAY.

C) DO NOT CLOSE ROADS AS FOLLOWS:

ROAD NAME	DAY AND TIME RESTRICTIONS
US 64	MAY 15TH TO OCTOBER 15TH

### GENERAL NOTES

- D) ALL TRAFFIC CONTROL FOR SET UP, MAINTENANCE, AND BREAKDOWN/REMOVAL SHALL ADHERE TO THE STANDARDS AND SPECIFICATIONS OF THE MOST RECENT EDITION OF THE MANUAL FOR UNIFORM TRAFFIC CONTROL (MUTCD), THE NCDOT STANDARDS AND SPECS, AND THE ROADWAY STANDARD DRAWINGS.
- E) THE CONTRACTOR SHALL VERIFY THE LOCATION OF ALL UTILITIES PRIOR TO CONSTRUCTION BY CONTACTING THE NC ON CALL CENTER (1-800-6322-4949).
- F) PERFORM WORK ONLY WHEN WEATHER AND VISIBILITY CONDITIONS ALLOW SAFE OPERATIONS.

### LANE AND SHOULDER CLOSURE REQUIREMENTS

- G) 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.
- H) 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.
- I) DO NOT INSTALL MORE THAN 3,000 LF OF LANE CLOSURE ON US 64 MEASURED FROM THE BEGINNING OF THE MERGE TAPER TO THE END OF THE END OF THE LANE CLOSURE.
- J) DO NOT INSTALL MORE THAN ONE LANE CLOSURE IN ANY DIRECTION ON US 64.
- K) DO NOT CONDUCT ANY HAULING OPERATIONS AGAINST THE FLOW OF TRAFFIC OF AN OPEN TRAVEL WAY UNLESS THE HAULING OPERATION IS PROTECTED BY BARRIER OR GUARDRAIL OR AS DIRECTED BY THE ENGINEER.
- L) WHEN PERSONNEL AND/OR EQUIPMENT ARE WORKING WITHIN 15FT 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.
- M) 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.
- N) DO NOT WORK SIMULTANEOUSLY WITHIN 15 FT ON BOTH SIDES OF AN OPEN TRAVEL WAY, RAMP OR LOOP WITHIN THE SAME LOCATION UNLESS PROTECTED WITH GUARDRAIL OR BARRIER.

### TRAFFIC PATTERN ALTERATIONS

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

### SIGNING

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

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) PROVIDE SIGNING AND DEVICES REQUIRED TO CLOSE THE ROAD ACCORDING TO THE ROADWAY STANDARD DRAWINGS AND TRAFFIC CONTROL PLANS. PROVIDE SIGNING REQUIRED FOR THE OFF- SITE DETOUR ROUTE AS SHOWN IN THE TRAFFIC CONTROL PLANS.

### TRAFFIC CONTROL DEVICES


- T) PLACE TYPE III BARRICADES WITH "ROAD CLOSED" SIGN RII-2 ATTACHED, OF SUFFICIENT LENGTH TO CLOSE ENTIRE ROADWAY.
- U) PLACE ADDITIONAL SETS OF THREE CHANNELIZING DEVICES (DRUMS, CONES OR SKINNY DRUMS) PERPENDICULAR TO THE EDGE OF TRAVEL WAY ON 1000 FT CENTERS WHEN UNOPENED LAVES ARE CLOSED TO TRAFFIC.

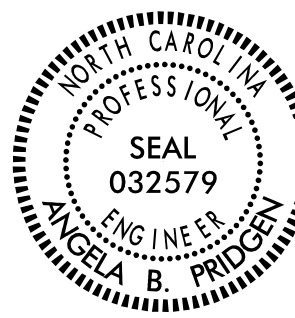
### PAVEMENT MARKINGS AND MARKERS

- V) RECORD EXISTING PAVEMENT MARKINGS/MARKERS CONFIGURATIONS PRIOR TO CONSTRUCTION. THIS RECORD SHALL BE UTILIZED TO PLACE THE FINAL PAVEMENT MARKING/MARKERS.
- W) TIE PROPOSED PAVEMENT MARKING LINES TO EXISTING PAVEMENT MARKING LINES.

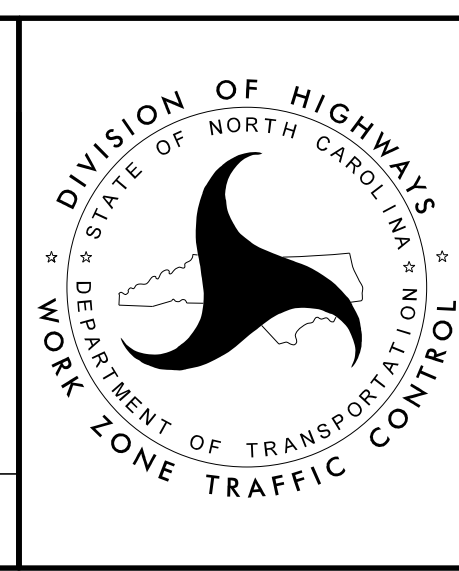
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## GENERAL NOTES

# PHASING

## ROADWAY STANDARD DRAWINGS

THE FOLLOWING ROADWAY STANDARDS AS SHOWN IN "ROADWAY STANDARD DRAWINGS" - PROJECT SERVICES UNIT - 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.	TITLE
1101.01	WORK ZONE 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
1130.01	DRUMS
1135.01	CONES
1145.01	BARRICADES
1150.01	FLAGGING DEVICES
1205.01	PAVEMENT MARKINGS-LINE TYPES AND OFFSETS
1205.02	PAVEMENT MARKINGS-TWO LANE AND MULTILANE ROADWAYS
1205.12	PAVEMENT MARKINGS-BRIDGES
1250.01	RAISED PAVEMENT MARKERS-INSTALLATION SPACING
1251.01	RAISED PAVEMENT MARKERS-PERMANENT AND TEMPORARY
1253.01	RAISED PAVEMENT MARKERS

PERFORM ALL WORK AS SHOWN IN THE CONTRACT DOCUMENTS IN ACCORDANCE WITH THE MOST RECENT EDITION OF THE NCDOT STANDARD SPECIFICATIONS, STANDARD DRAWINGS AND TMP.

### PHASE I: US 64 ROAD CLOSURE

COMPLETE THE WORK REQUIRED IN PHASE I STEPS 1-5 IN TWO HUNDRED AND TEN (210) CONSECUTIVE CALENDAR DAYS. SEE INTERMEDIATE CONTRACT TIMES AND LIQUIDATED DAMAGES.

BRIDGE WORK TO BE COMPLETED UNDER THIS PHASE INCLUDES SURFACE PREPARATION AND DECK OVERLAY WITH MMA, BRIDGE DECK CRACK SEALING, JOINT REPLACEMENTS, REINFORCED APPROACH FILL, MILLING AND RESURFACING AND PAVEMENT MARKINGS.

#### STEP 1

INSTALL OFFSITE DETOUR SIGNING FOR THE CLOSURE OF US 64 ACCORDING TO SHEETS TMP-4 THRU TMP-7 AND COVER SIGNS AS APPROPRIATE. CHANGEABLE MESSAGE SIGNS SHALL BE PLACED AND MESSAGE DISPLAYED 6 MONTHS PRIOR TO CLOSURE OF THE BRIDGE.

#### STEP 2

IN ONE CONTINUOUS WORK PERIOD, UNCOVER OFFSITE DETOUR SIGNS AND ROAD CLOSURE SIGNS, AND INSTALL DEVICES TO CLOSE US 64 PER SHEETS TMP-4 THRU TMP-7 AND ROADWAY STANDARD DRAWING SHEET 1101.03 SHEET 1 OF 9.

#### STEP 3

WITH US 64 CLOSED TO TRAFFIC, PERFORM REQUIRED DECK REHABILITATION WORK AND REPLACE PAVEMENT MARKINGS.

#### STEP 4

REMOVE DEVICES AND SIGNS CLOSING US 64 AND RE-OPEN BRIDGE #270009 TO TRAFFIC. REMOVE OFFSITE DETOUR SIGNING.

#### STEP 5

REMOVE ALL WORK ZONE TRAFFIC CONTROL SIGNING AND DEVICES.

### PHASE II: BRIDGE SUBSTRUCTURE WORK

BRIDGE WORK TO BE COMPLETED UNDER THIS PHASE INCLUDES CAP AND COLUMN REPAIRS, PILE REPAIRS, PILE FRP WRAPPING, FOOTING RESTORATION AND EPOXY RESIN INJECTION.

WORK DURING THIS PHASE MAY BE CONCURRENT TO WORK COMPLETED IN PHASE 1, BUT IS NOT SUBJECT TO THE INTERMEDIATE CONTRACT TIME AND LIQUIDATED DAMAGES.

## LEGEND

<b>GENERAL</b>	<b>TRAFFIC CONTROL DEVICES</b>
DIRECTION OF TRAFFIC FLOW	BARRICADE (TYPE III)
EXIST. PVMT.	<b>TEMPORARY SIGNING</b>
NORTH ARROW	STATIONARY SIGN
STAGING AREA	CHANGEABLE MESSAGE SIGN (CMS)
<b>PAVEMENT MARKINGS</b>	
EXISTING LINES	

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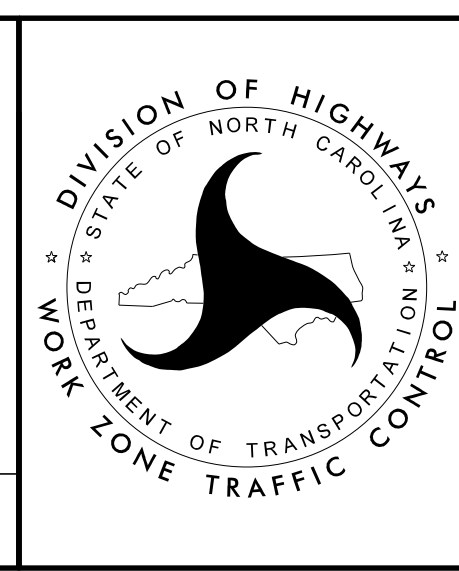


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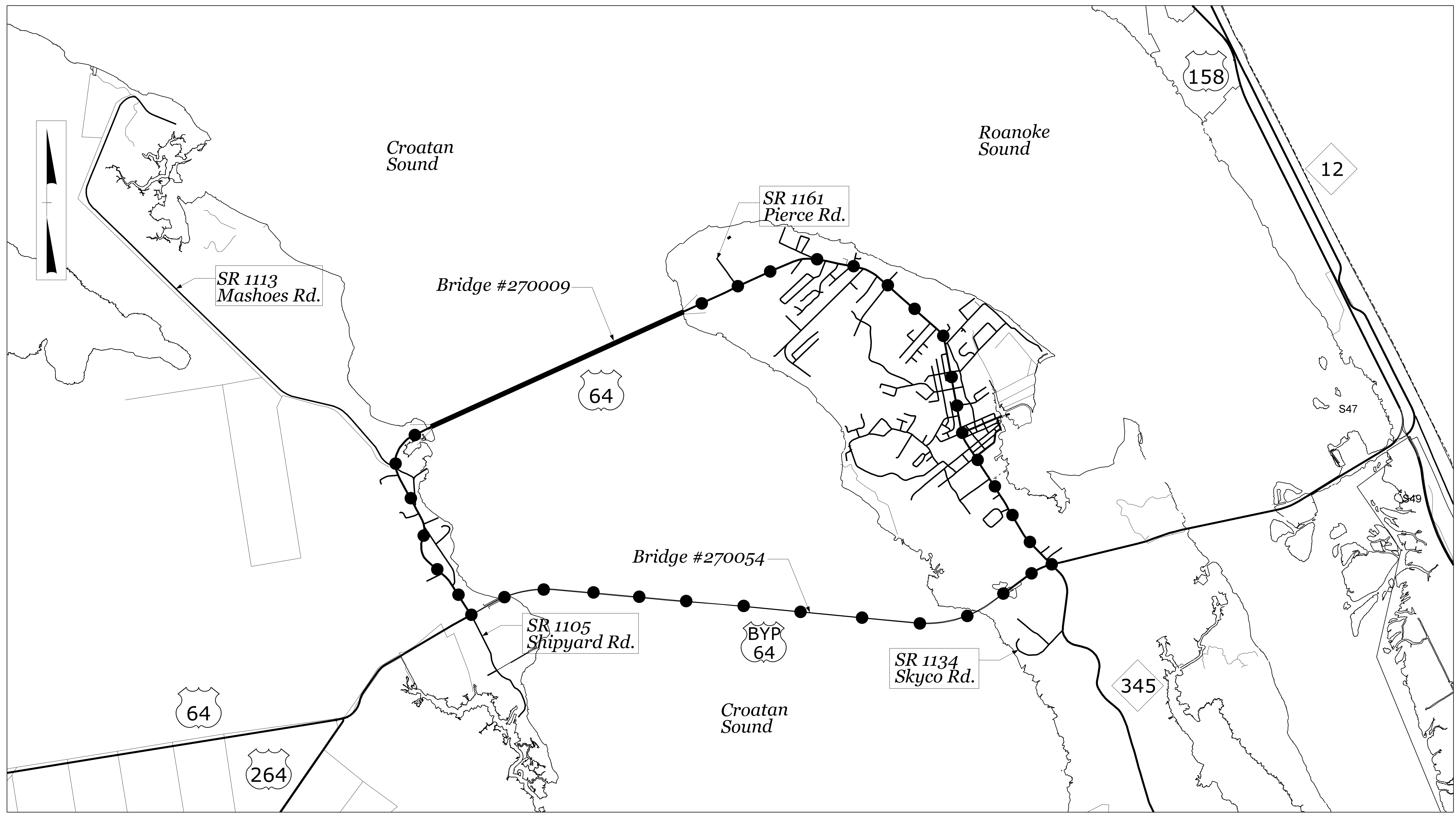
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**SEAL 032579**  
ANGELA B. FRIDGEN  
ENGINEER

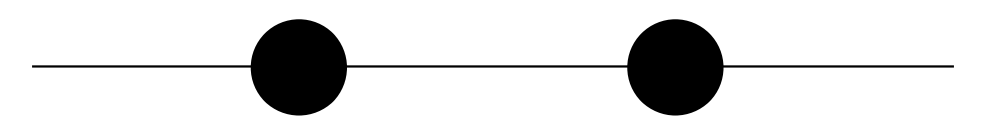
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ROADWAY STANDARD DRAWINGS & TRAFFIC CONTROL PHASING



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**DETOUR ROUTE**



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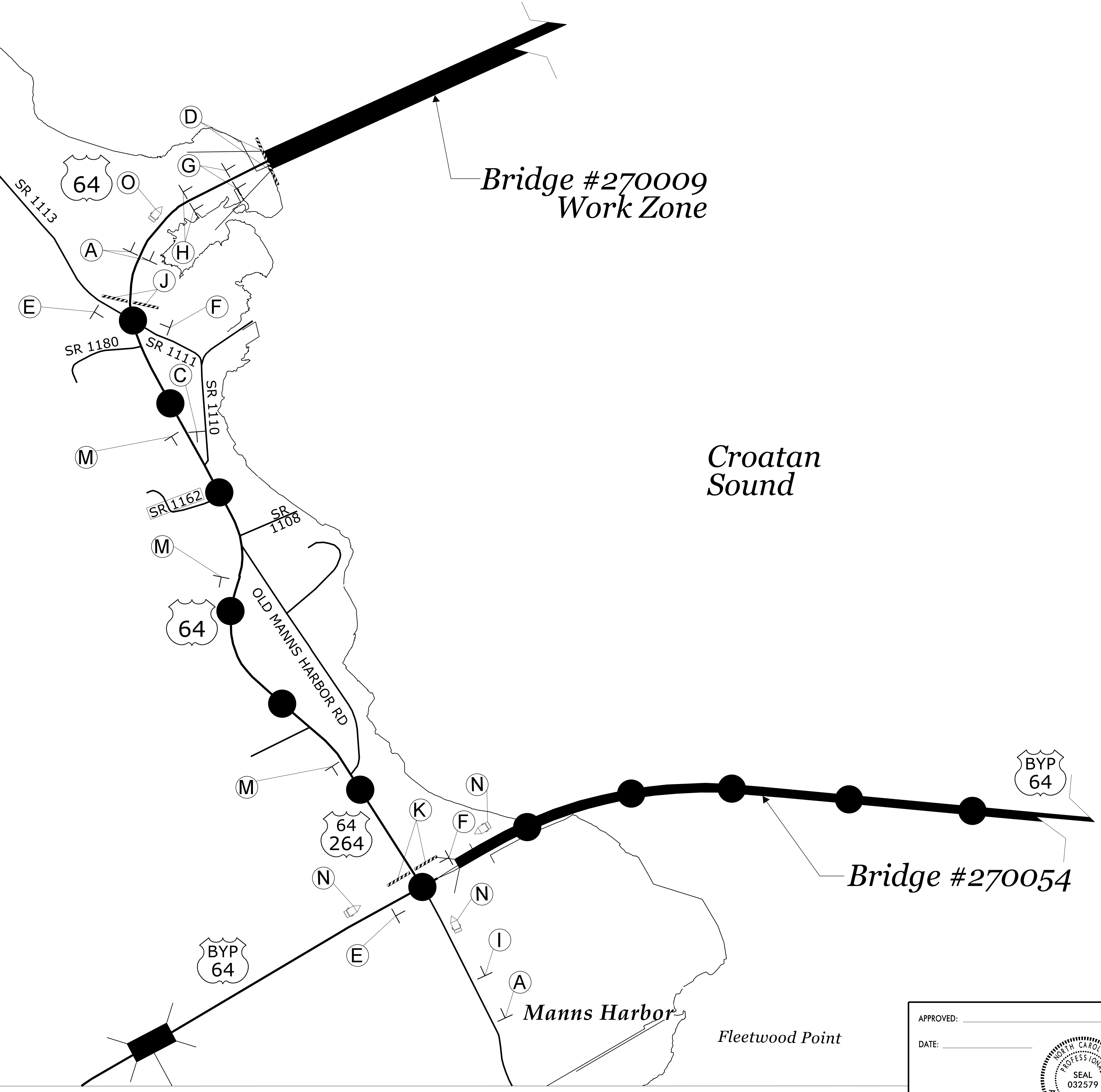
ANGELA B. PRICEN  
 PROFESSIONAL ENGINEER  
 No. 032579  
 State of North Carolina

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**DARE COUNTY  
 BRIDGE #270009**  
  
**DETOUR ROUTE**

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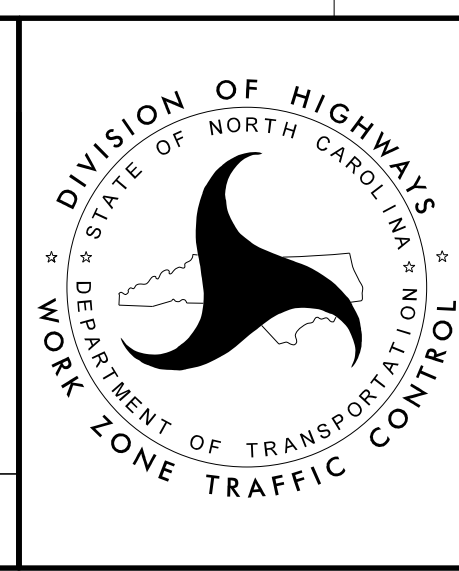


**DETOUR ROUTE**



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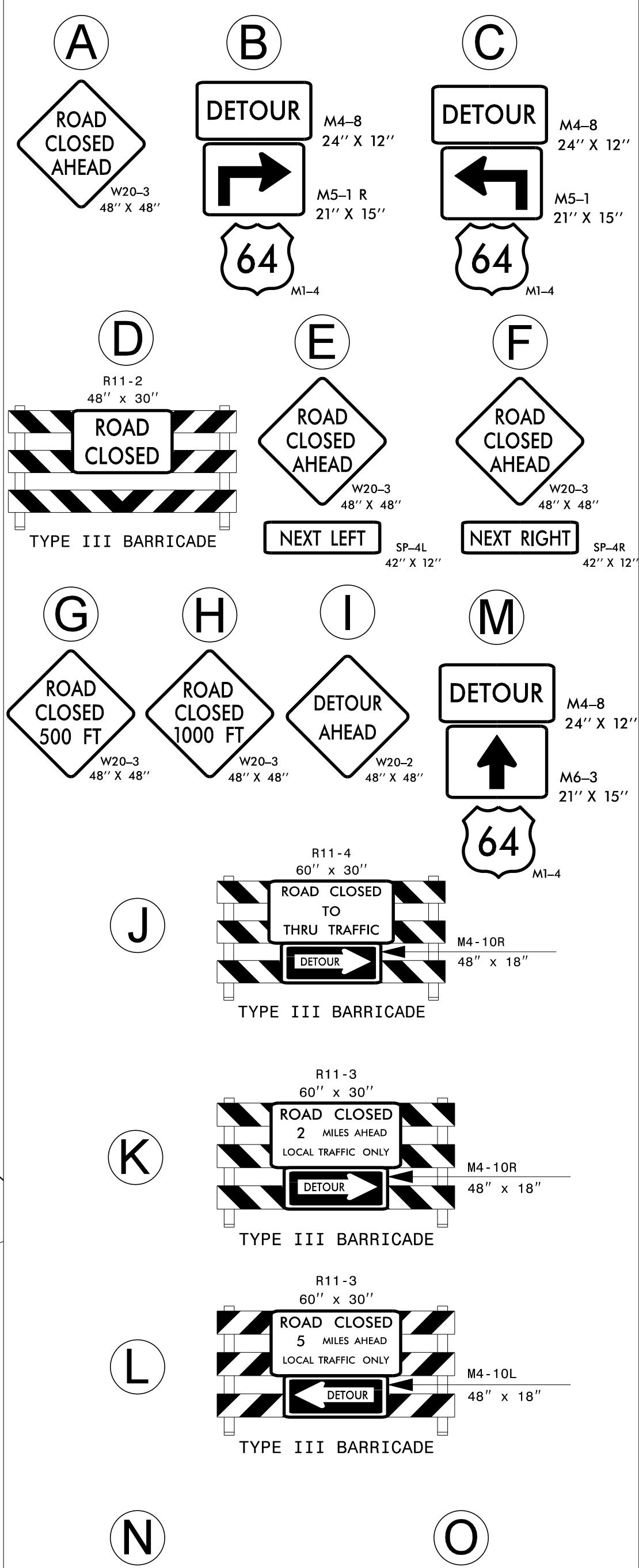
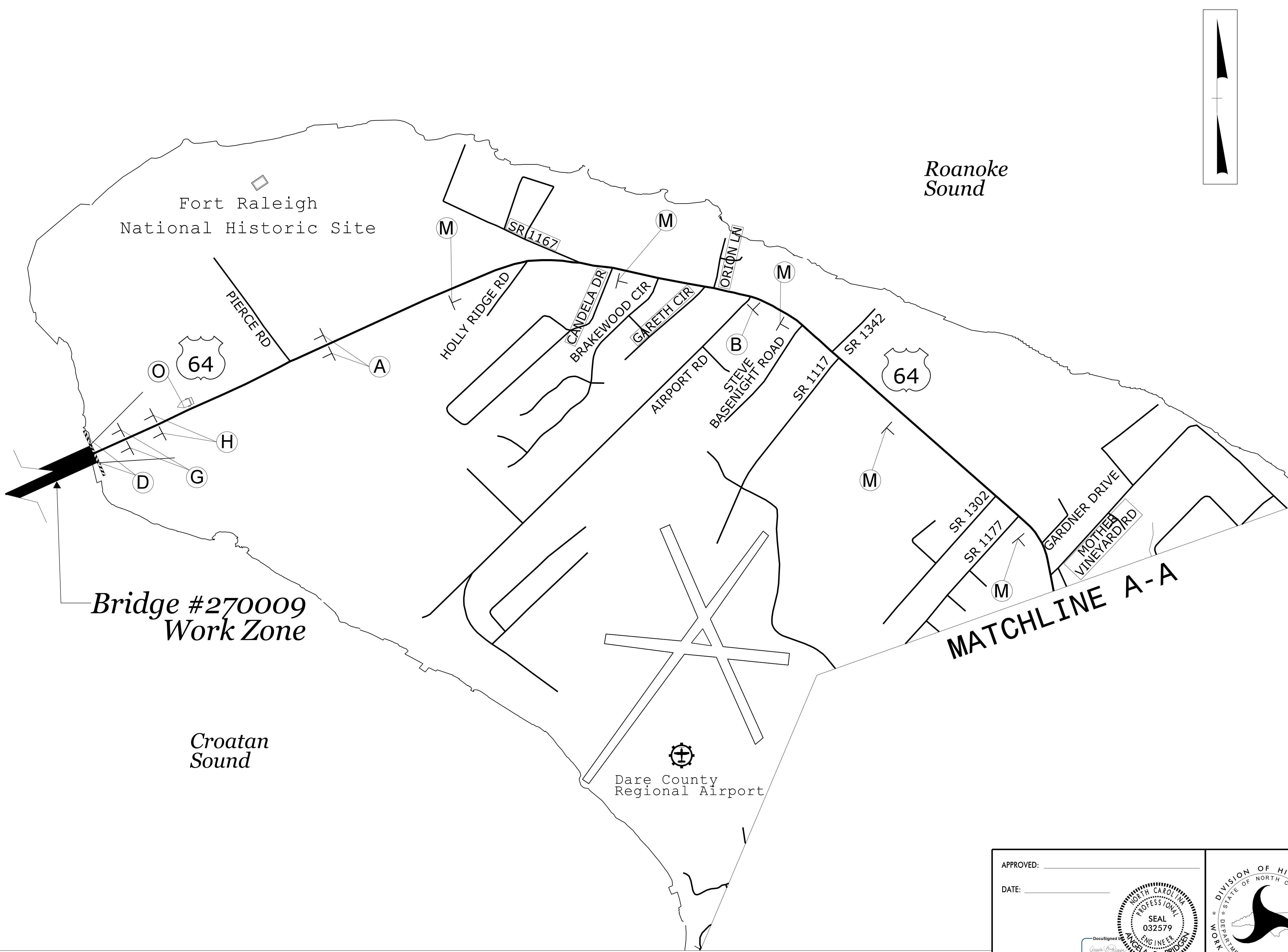
**DARE COUNTY  
BRIDGE #270009**

**ROAD CLOSURE  
AND DETOUR ROUTE  
WEST BANK**

PROJ. REFERENCE NO. HB-0017	SHEET NO. TMP-5
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<b>A</b> ROAD CLOSED AHEAD W20-3 48" X 48"	<b>B</b> DETOUR M4-8 24" X 12" M5-1 R 21" X 15" 64 M1-4	<b>C</b> DETOUR M4-8 24" X 12" M5-1 21" X 15" 64 M1-4
<b>D</b> ROAD CLOSED R11-2 48" X 30"	<b>E</b> ROAD CLOSED AHEAD W20-3 48" X 48"	<b>F</b> ROAD CLOSED AHEAD W20-3 48" X 48"
TYPE III BARRICADE	NEXT LEFT SP-4L 42" X 12"	NEXT RIGHT SP-4R 42" X 12"
<b>G</b> ROAD CLOSED 500 FT W20-3 48" X 48"	<b>H</b> ROAD CLOSED 1000 FT W20-3 48" X 48"	<b>I</b> DETOUR AHEAD W20-2 48" X 48"
<b>M</b> DETOUR M4-8 24" X 12" M6-3 21" X 15" 64 M1-4		
<b>J</b> ROAD CLOSED TO THRU TRAFFIC R11-4 60" X 30" DETOUR M4-10R 48" X 18"	TYPE III BARRICADE	
<b>K</b> ROAD CLOSED 2 MILES AHEAD LOCAL TRAFFIC ONLY R11-3 60" X 30" DETOUR M4-10R 48" X 18"	TYPE III BARRICADE	
<b>L</b> ROAD CLOSED 5 MILES AHEAD LOCAL TRAFFIC ONLY R11-3 60" X 30" DETOUR M4-10L 48" X 18"	TYPE III BARRICADE	
<b>N</b>	<b>O</b>	

MESSAGE NO. 1 US 64 BRIDGE CLOSED CHANGEABLE MESSAGE SIGN	MESSAGE NO. 2 USE US 64 BYP CLOSED CHANGEABLE MESSAGE SIGN	MESSAGE NO. 1 US 64 BRIDGE CLOSED CHANGEABLE MESSAGE SIGN	MESSAGE NO. 2 DAY MONTH DATE CHANGEABLE MESSAGE SIGN
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Bridge #270009 Work Zone

Croatan Sound

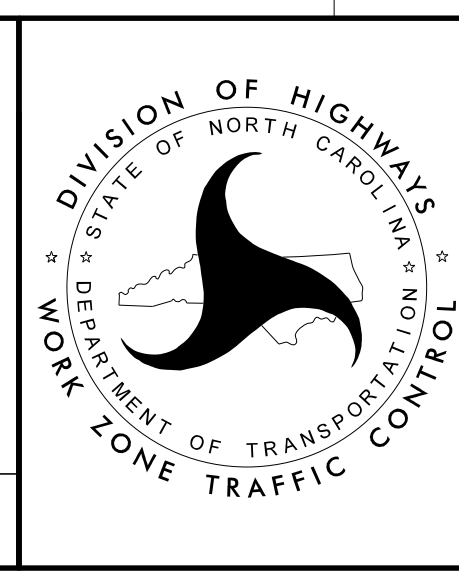
MATCHLINE A-A

Dare County Regional Airport

DETOUR ROUTE

**GANNETT FLEMING** One Glenwood Avenue Suite 900 Raleigh, NC 27603 919-420-7660 NC Lic. No. F-0270

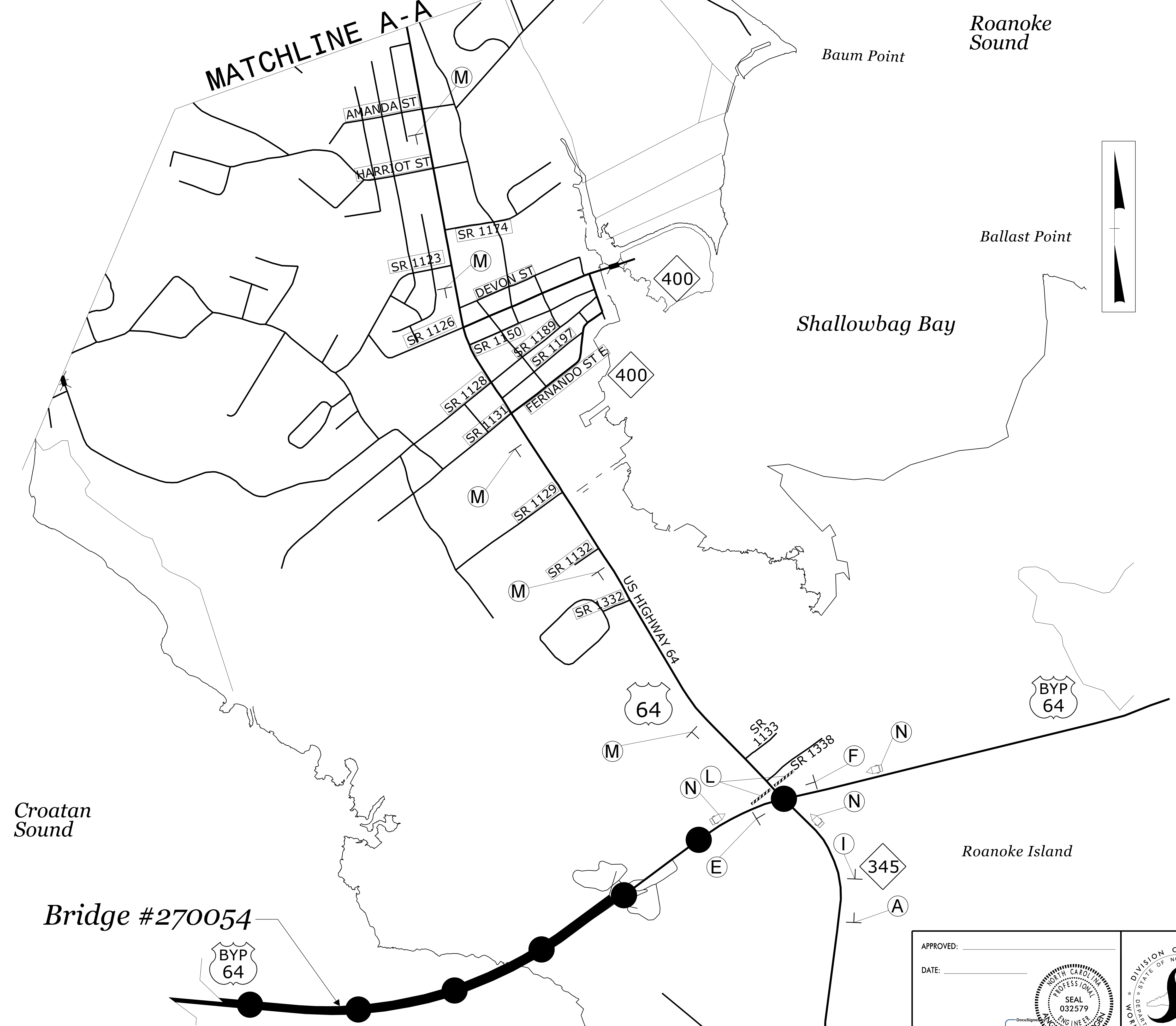
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**DARE COUNTY BRIDGE #270009**  
**ROAD CLOSURE AND DETOUR ROUTE EAST BANK 2**

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Bridge #270054

**DETOUR ROUTE**

PROJ. REFERENCE NO. HB-0017	SHEET NO. TMP-7
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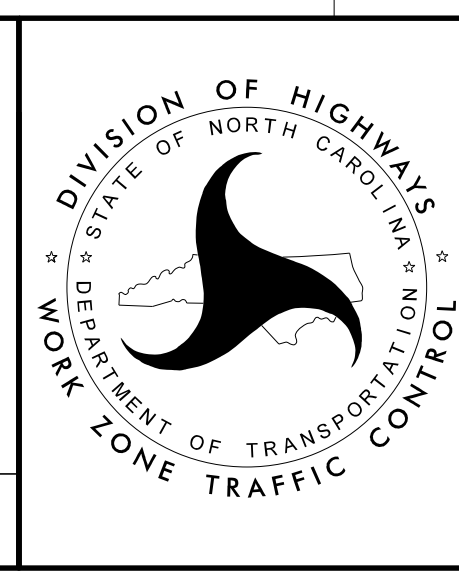
Legend of traffic signs and barricades:

- A** ROAD CLOSED AHEAD (W20-3 48" x 48")
- B** DETOUR (M4-8 24" x 12", M5-1 R 21" x 15", M5-1 L 21" x 15", MI-4 64)
- C** DETOUR (M4-8 24" x 12", M5-1 21" x 15", MI-4 64)
- D** ROAD CLOSED (R11-2 48" x 30", TYPE III BARRICADE)
- E** ROAD CLOSED AHEAD (W20-3 48" x 48")
- F** ROAD CLOSED AHEAD (W20-3 48" x 48")
- G** ROAD CLOSED 500 FT (W20-3 48" x 48")
- H** ROAD CLOSED 1000 FT (W20-3 48" x 48")
- I** DETOUR AHEAD (W20-2 48" x 48")
- M** DETOUR (M4-8 24" x 12", M6-3 21" x 15", MI-4 64)
- J** ROAD CLOSED TO THRU TRAFFIC (R11-4 60" x 30", M4-10R 48" x 18", TYPE III BARRICADE)
- K** ROAD CLOSED 2 MILES AHEAD LOCAL TRAFFIC ONLY (R11-3 60" x 30", M4-10R 48" x 18", TYPE III BARRICADE)
- L** ROAD CLOSED 5 MILES AHEAD LOCAL TRAFFIC ONLY (R11-3 60" x 30", M4-10L 48" x 18", TYPE III BARRICADE)
- N** CHANGEABLE MESSAGE SIGN
- O** CHANGEABLE MESSAGE SIGN

MESSAGE NO. 1 US 64 BRIDGE CLOSED CHANGEABLE MESSAGE SIGN	MESSAGE NO. 2 USE US 64 BYP CLOSED CHANGEABLE MESSAGE SIGN	MESSAGE NO. 1 US 64 BRIDGE CLOSED CHANGEABLE MESSAGE SIGN	MESSAGE NO. 2 DAY MONTH DATE CHANGEABLE MESSAGE SIGN
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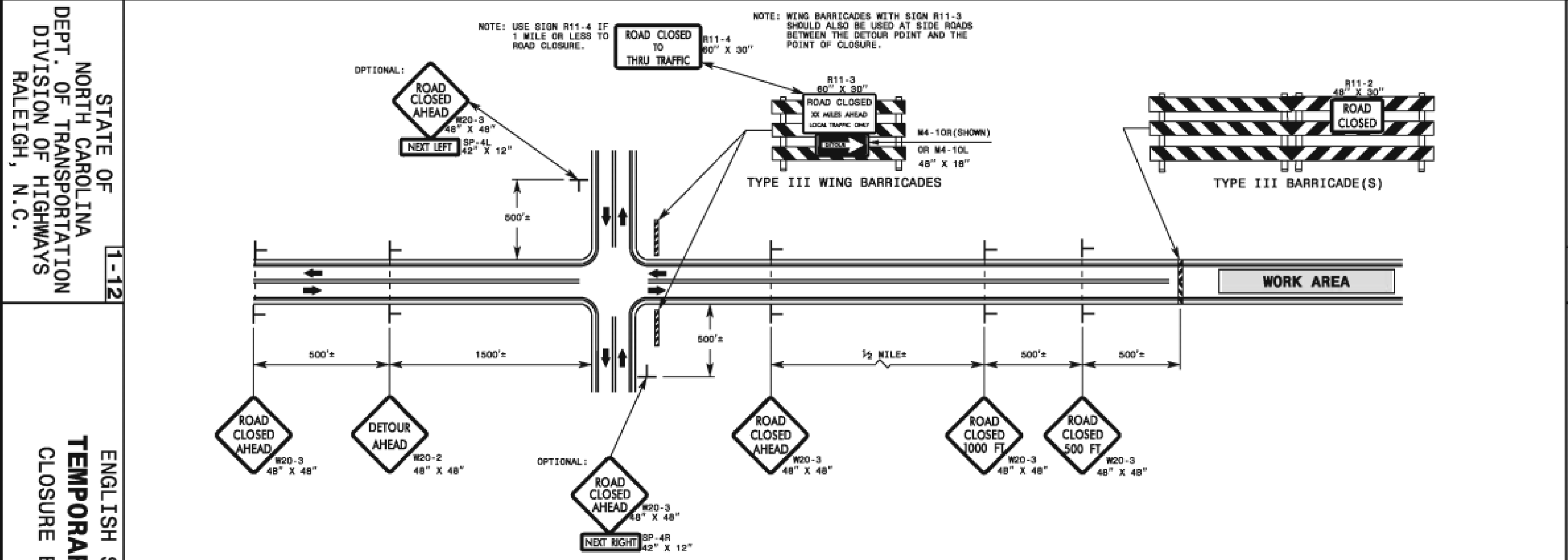


**DARE COUNTY  
BRIDGE #270009**

**ROAD CLOSURE  
AND DETOUR ROUTE  
EAST BANK 1**

**DIVISION OF HIGHWAYS  
DEPARTMENT OF TRANSPORTATION  
WORK ZONE TRAFFIC CONTROL**

**GANNETT FLEMING**  
One Glenwood Avenue  
Suite 900  
Raleigh, NC 27603  
919-420-7660  
NC Lic. No. F-0270



STATE OF NORTH CAROLINA  
DEPT. OF TRANSPORTATION  
DIVISION OF HIGHWAYS  
RALEIGH, N.C.

STATE OF NORTH CAROLINA  
DEPT. OF TRANSPORTATION  
DIVISION OF HIGHWAYS  
RALEIGH, N.C.

ENGLISH STANDARD DRAWING FOR  
**TEMPORARY ROAD CLOSURES**  
CLOSURE BEYOND DETOUR POINT

SHEET 1 OF 9  
**1101.03**

ENGLISH STANDARD DRAWING FOR  
**TEMPORARY ROAD CLOSURES**  
CLOSURE BEYOND DETOUR POINT

SHEET 1 OF 9  
**1101.03**

**GENERAL NOTES**

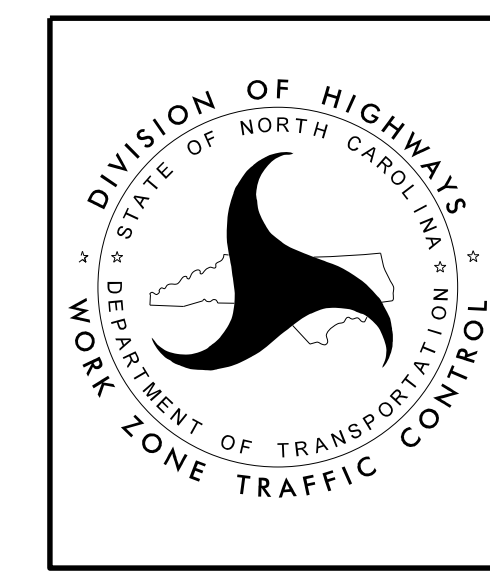
- 1- IF NECESSARY USE THIS STD. FOR TWO-LANE, TWO-WAY, AND MULTILANE DIVIDED AND UNDIVIDED ROADWAYS.
- 2- INSTALLATION OF DETOUR ROUTING PANELS, TEMPORARY ROUTE MARKERS, DESTINATION SIGNS, AND ANY NECESSARY MODIFICATIONS TO EXISTING OR PROPOSED REGULATORY OR WARNING SIGNS WILL BE MADE BY OTHERS (STATE OR CITY FORCES) UNLESS OTHERWISE DESIGNATED IN THE PLANS. PROVIDE A MINIMUM 21 CALENDAR DAY NOTICE TO STATE FORCES BEFORE A ROADWAY IS CLOSED TO TRAFFIC SUCH THAT THE NECESSARY PROVISIONS CAN BE MADE TO INSTALL DETOUR ROUTE SIGNS, INFORM LOCAL EMERGENCY AND LAW ENFORCEMENT PERSONNEL, SCHOOLS, OR ANY OTHER PARTIES AFFECTED BY THE ROAD CLOSURE.
- 3- INSTALL SIGNS BEFORE THE BARRICADES WHEN CLOSING THE ROADWAY TO TRAFFIC. REMOVE BARRICADES BEFORE SIGNS WHEN OPENING THE ROADWAY TO TRAFFIC. INSTALL/REMOVE SIGNS AND BARRICADES WITHIN THE SAME CALENDAR DAY.
- 4- USE ADDITIONAL TYPE III BARRICADES IN STAGGERED LOCATIONS SUPPLEMENTED WITH SIGN R11-4 "ROAD CLOSED TO THRU TRAFFIC" IN THE EVENT THAT TRAFFIC MUST BE MAINTAINED BEYOND THE DETOUR POINT.
- 5- DO NOT DISPLAY FRACTIONS OR DECIMALS ON SIGN R11-3 "ROAD CLOSED XX MILES AHEAD".
- 6- POSITION WING BARRICADES ON THE SHOULDERS AND SLOPE THE STRIPES DOWNWARD IN THE DIRECTION TOWARD WHICH TRAFFIC MUST TURN IN DETOURING.
- 7- USE PORTABLE SIGNS IF ROAD CLOSURE IS TO BE IMPLEMENTED FOR LESS THAN ONE DAY OR FOR EMERGENCIES.

**LEGEND**

— STATIONARY SIGN

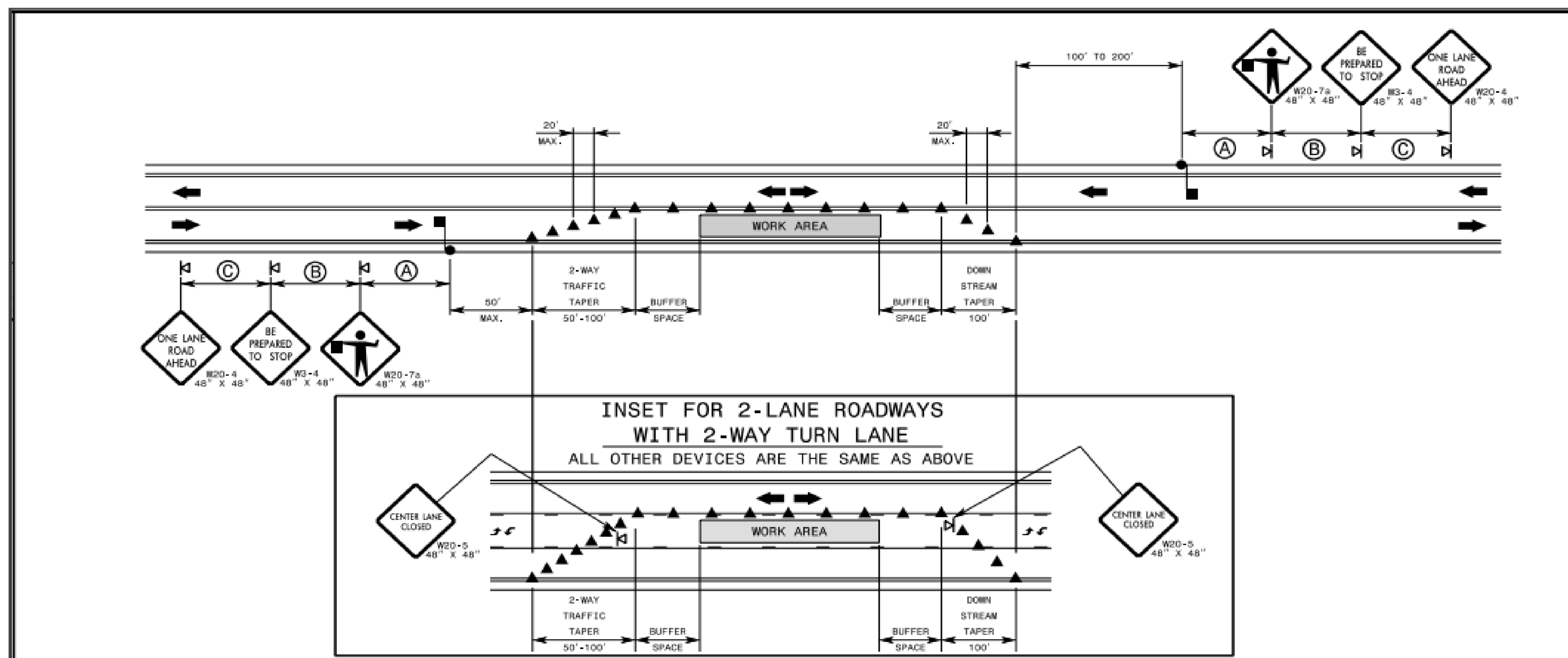
← DIRECTION OF TRAFFIC FLOW

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ROADWAY STD. 1101.03  
SHEET 1 OF 9





1-18  
STATE OF  
NORTH CAROLINA  
DEPT. OF TRANSPORTATION  
DIVISION OF HIGHWAYS  
RALEIGH, N.C.

ROADWAY STANDARD DRAWING FOR  
**TEMPORARY LANE CLOSURES**  
2-LANE, 2-WAY ROADWAY-1 LANE CLOSED

SHEET 1 OF 14  
**1101.02**

**GENERAL NOTES FOR FLAGGING OPERATIONS**

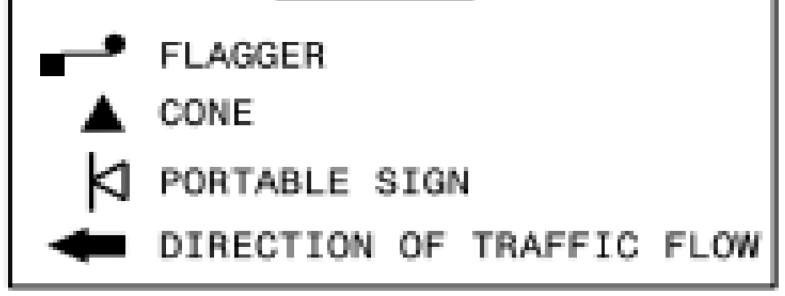
- 1- REFER TO RSD. 1101.11, SHEETS 1 & 4, FOR "L" DISTANCE AND SIGN SPACING.
- 2- INSTALL LANE CLOSURES WITH THE TRAFFIC FLOW, BEGINNING WITH DEVICES ON THE UPSTREAM SIDE OF TRAFFIC.
- 3- REMOVE LANE CLOSURES AGAINST THE TRAFFIC FLOW, BEGINNING WITH DEVICES ON THE DOWNSTREAM SIDE OF TRAFFIC.
- 4- PLACE CONES THRU THE WORK AREA AT THE MAXIMUM SPACING EQUAL IN FEET TO 2 TIMES THE POSTED SPEED LIMIT.
- 5- EXTEND LANE CLOSURES AT THE BUFFER SPACE SUCH THAT STOPPING SIGHT DISTANCE IS PROVIDED TO THE FLAGGER (REFER TO RSD. 1101.11, SHEET 2).
- 6- DO NOT STOP TRAFFIC IN ANY ONE DIRECTION FOR MORE THAN 5 MINUTES AT A TIME.
- 7- DRUMS OR SKINNY DRUMS MAY BE USED IN LIEU OF CONES. REFER TO RSD. 1180.01 FOR SKINNY DRUM REQUIREMENTS.
- 8- USE FLAGGERS TO CONTROL TRAFFIC AT INTERSECTIONS AFFECTED BY THE LANE CLOSURE. SUPPLEMENT FLAGGERS LOCATED AT INTERSECTIONS WITH FLAGGER AHEAD SIGNS (W20-7a) PLACED APPROXIMATELY 250 FT. IN ADVANCE OF THE FLAGGER. FOR SIGNALIZED INTERSECTIONS PLACE SIGNALS IN THE FLASH MODE AND USE LAW ENFORCEMENT.
- 9- REFER TO THE CURRENT MUTCD FOR FLAGGER CONTROL, REQUIREMENTS, AND PROCEDURES.
- 10- DO NOT EXCEED A 1 MILE LANE CLOSURE LENGTH UNLESS OTHERWISE SHOWN IN THE TMP OR AS DIRECTED BY THE ENGINEER.

- 11- IF VEHICLE QUEUES WILL REACH WITHIN 15' OF EITHER SIDE OF ACTIVE RAILROAD TRACKS, PROVIDE A UNIFORMED LAW ENFORCEMENT OFFICER OR FLAGGER TO PREVENT VEHICLES FROM STOPPING WITHIN THE GRADE CROSSING. PROVIDE OFFICER OR FLAGGER EVEN IF AUTOMATIC WARNING MEASURES ALREADY EXIST.

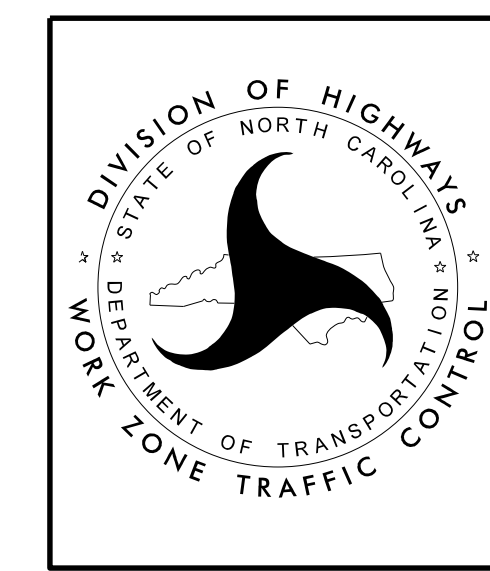
**GENERAL NOTES FOR PILOT CAR OPERATIONS**

- 1- USE PILOT CARS WHEN DIRECTED BY THE ENGINEER.
- 2- IF ROADWAY WIDTH IS LESS THAN 22 FEET (EOP TO EOP), CONES MAY NOT BE REQUIRED ALONG WORK AREA, AND AT THE DISCRETION OF THE ENGINEER, CONES MAY BE OMITTED ALONG THE WORK AREA IF USING A PILOT CAR.
- 3- CONES ARE ALWAYS REQUIRED IN THE UPSTREAM AND DOWNSTREAM TAPERS.
- 4- MOUNT SIGN G20-4 "PILOT CAR FOLLOW ME" AT A CONSPICUOUS POSITION ON THE REAR OF THE PILOT VEHICLE.
- 5- DO NOT INSTALL MORE THAN ONE (1) MILE OF LANE CLOSURE, MEASURED FROM THE BEGINNING OF THE MERGE TAPER TO THE END OF THE LANE CLOSURE.
- 6- ADVISE RESIDENTS AND BUSINESSES WITHIN THE LANE CLOSURE LIMITS ABOUT METHODS OF SAFE EGRESS AND INGRESS FROM DRIVEWAYS DURING FLAGGING AND PILOT CAR OPERATIONS.

**LEGEND**



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ROADWAY STD. 1101.02  
SHEET 1 OF 14