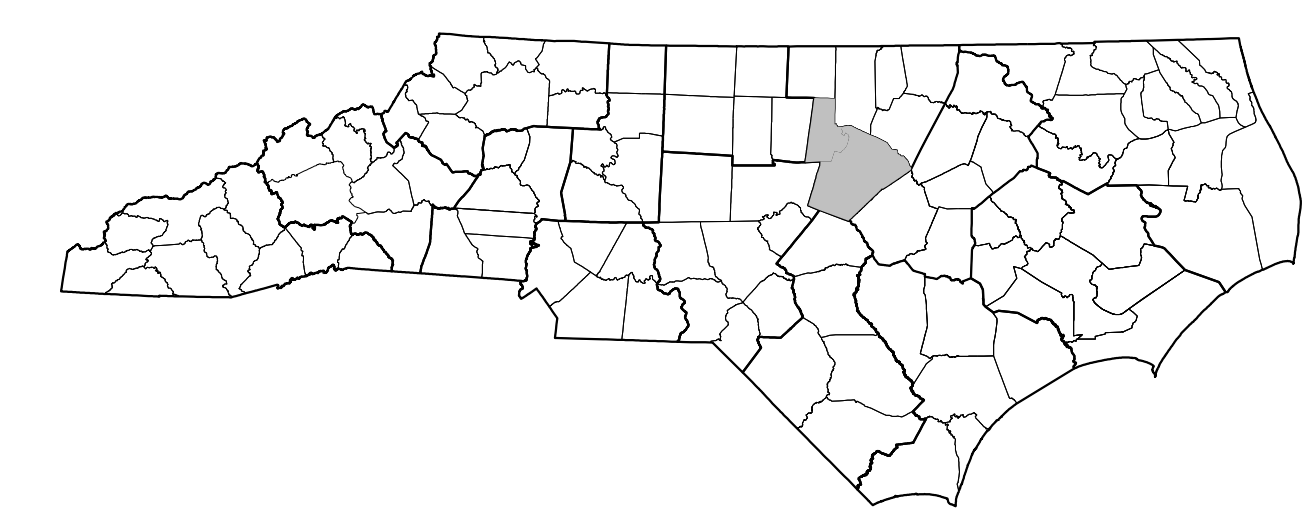


STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

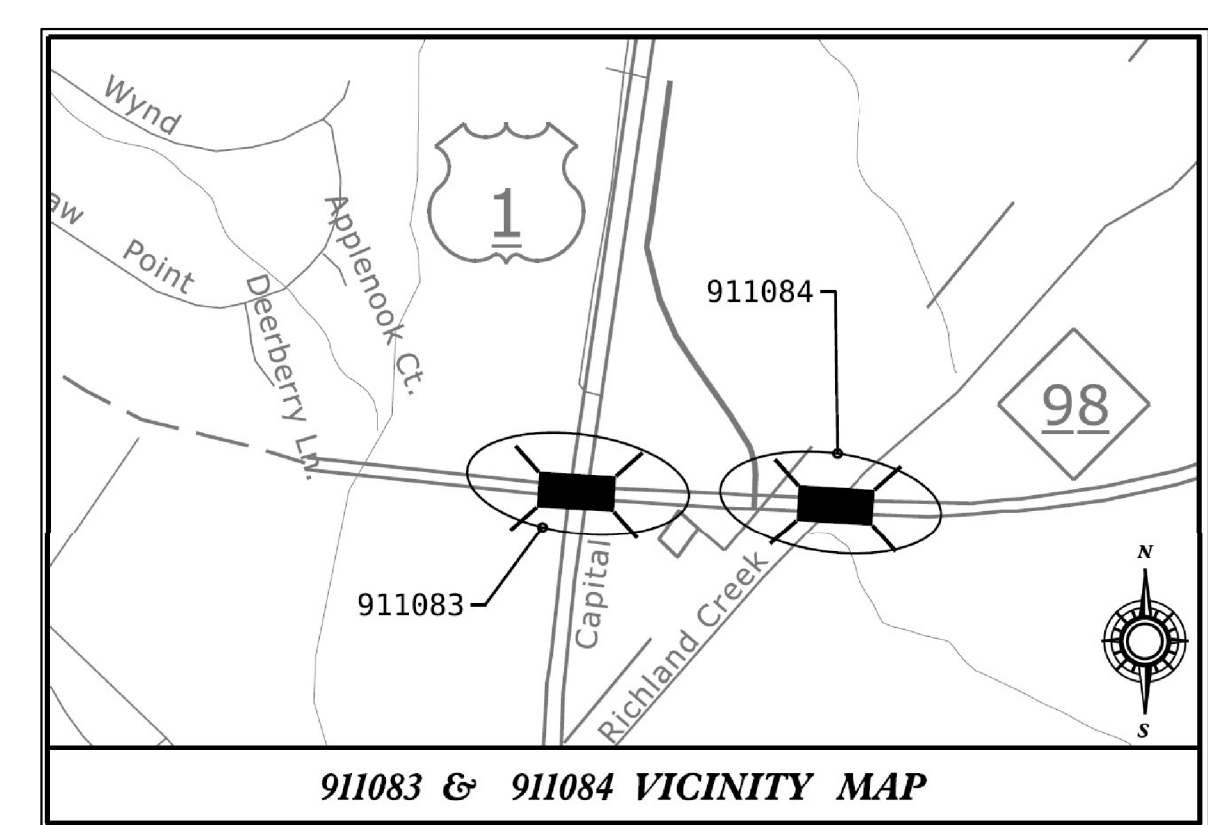
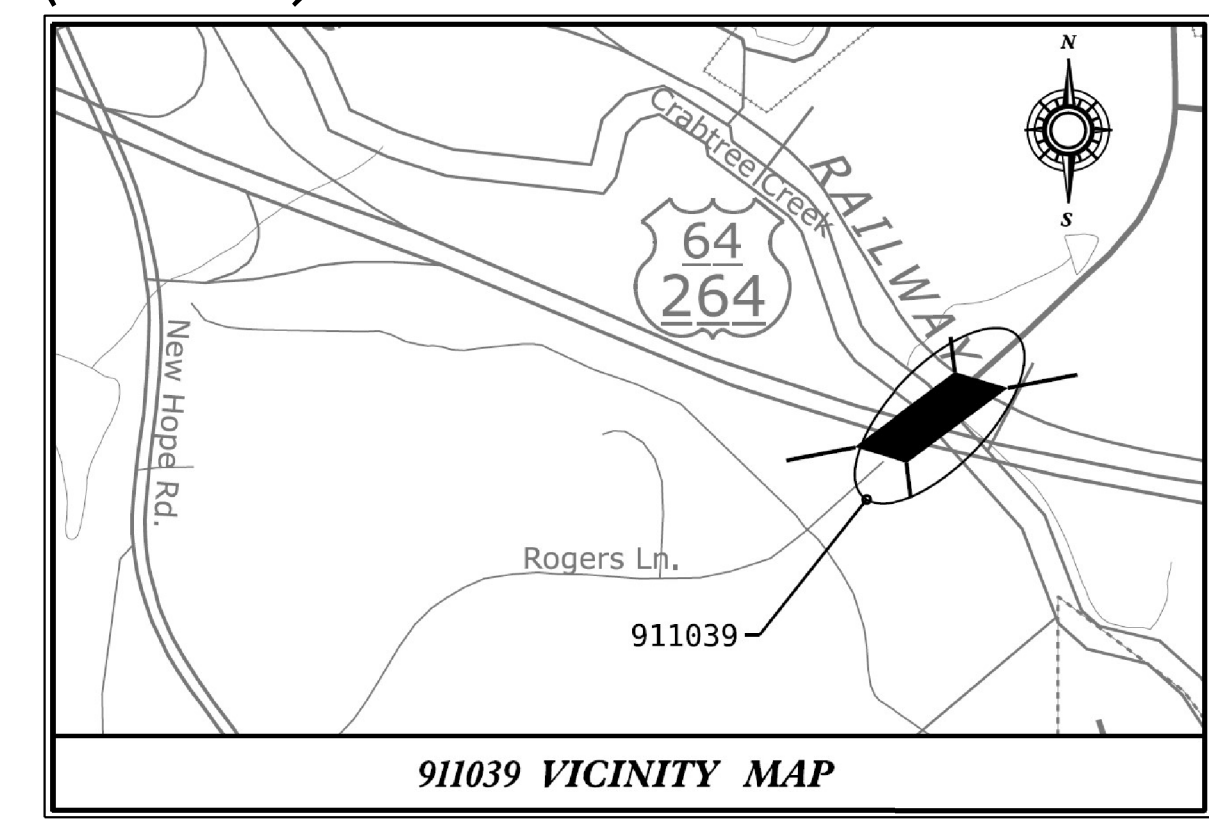
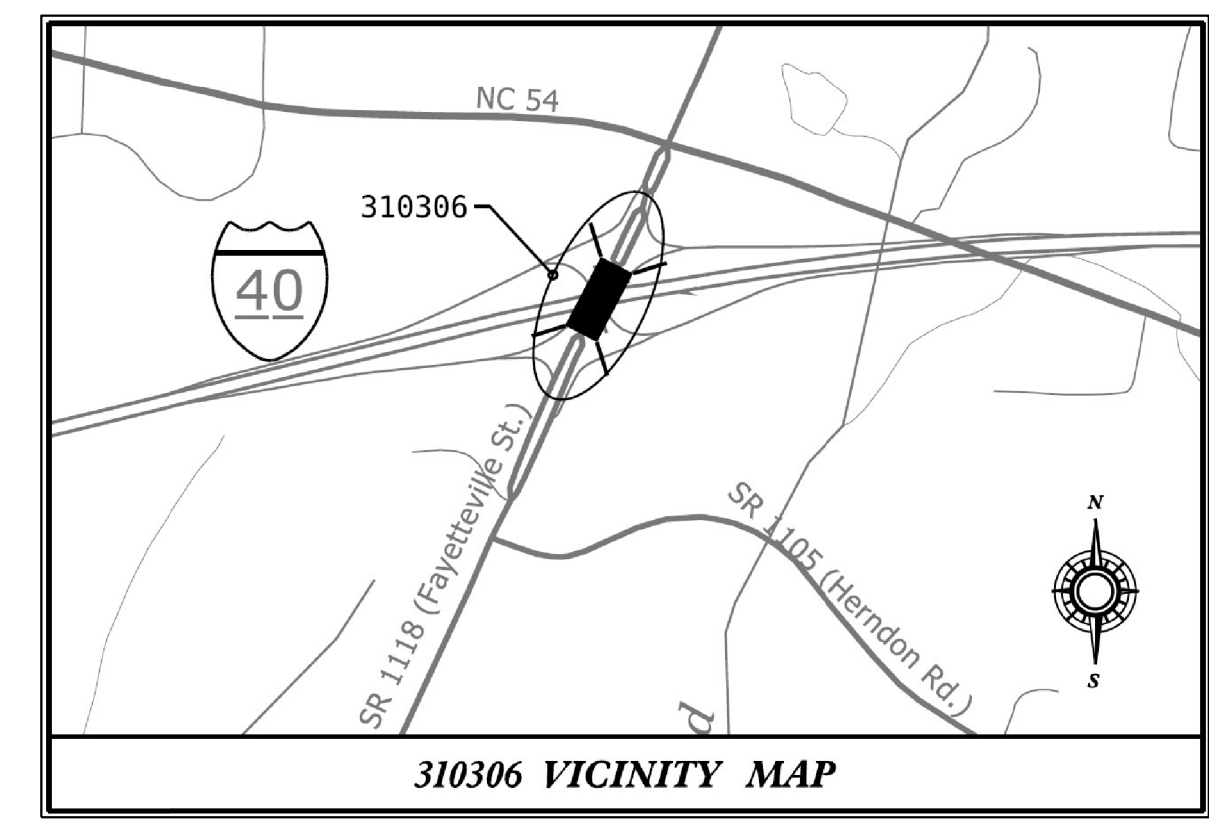
TRANSPORTATION MANAGEMENT PLAN

DURHAM & WAKE COUNTIES

DIVISION 5

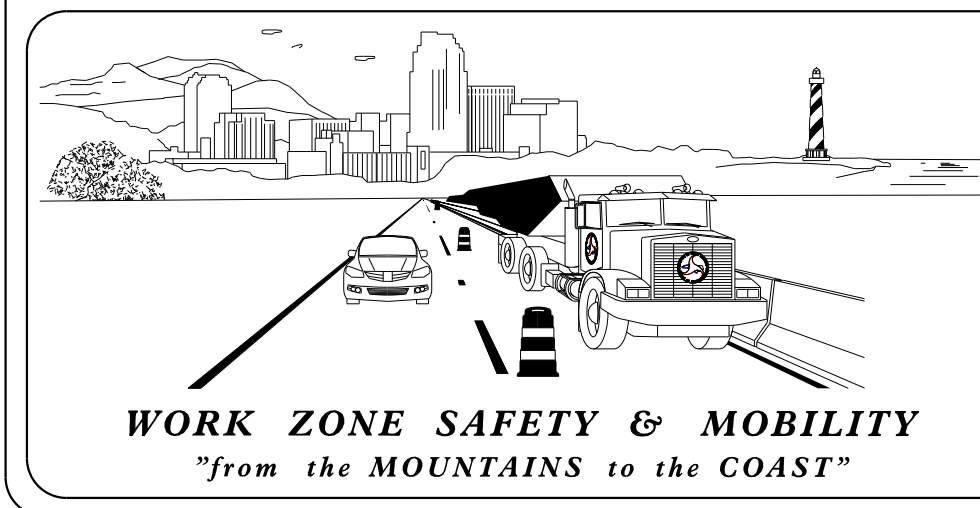


**LOCATION: BRIDGE #310306 ON SR 1118 (FAYETTEVILLE RD.) OVER I-40
BRIDGE #911039 ON SR 2517 (ROGERS LN.) OVER I-87/US64/US264,
CRABTREE CREEK AND NS RAILROAD
BRIDGE #911083 ON SR 5162 (NC-98) OVER US-1 (CAPITAL BLVD.)
BRIDGE #911084 ON SR 5162 (NC-98) OVER RICHLAND CREEK**



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	GENERAL NOTES
TMP-2	SPECIAL SIGN DESIGNS
TMP-3, 3A	TEMPORARY TRAFFIC CONTROL PHASING
TMP-4, 4A	BRIDGE #310306 PHASE 1 - FAYETTEVILLE RD
TMP-4B	BRIDGE #310306 PHASE 1 DETOUR ROUTE - FAYETTEVILLE RD / I-40
TMP-4C, 4D	BRIDGE #310306 PHASE 2 DETOUR ROUTES - I-40
TMP-5	BRIDGE #911039 DETOUR ROUTE - ROGERS LN
TMP-6, 6A-6C	BRIDGE #911083 BRIDGE CLOSURE - NC 98
TMP-6D	BRIDGE #911083 DETOUR ROUTE - NC 98
TMP-6E	BRIDGE #911083 DETOUR LEGEND
TMP-6F	BRIDGE #911083 DETOUR ROUTE - US 1
TMP-7, 7A-7B	BRIDGE #911084 PHASE 1 - NC 98 EAST
TMP-7C	BRIDGE #911084 DETOUR ROUTE - NC 98 EAST
TMP-7D, 7E-7F	BRIDGE #911084 PHASE 2 - NC 98 WEST
TMP-7G	BRIDGE #911084 DETOUR ROUTE - NC 98 WEST

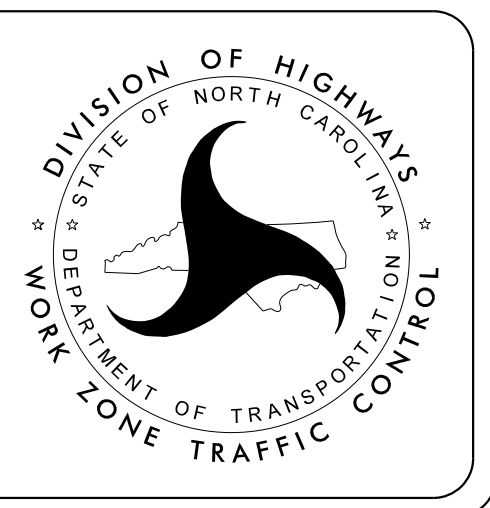
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ROADWAY STANDARD DRAWINGS

THE FOLLOWING ROADWAY STANDARDS AS APPEAR 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
DIVISION 11 - WORK ZONE TRAFFIC CONTROL	
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
1101.11	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 - DRUM

LEGEND

GENERAL

- DIRECTION OF TRAFFIC FLOW
- EXIST. PVMT.
- PROPOSED PVMT.
- NORTH ARROW
- TEMP. SHORING (LOCATION PURPOSES ONLY)
- WORK AREA
- PREVIOUSLY STARTED / CONCURRENT CONSTRUCTION
- PAVEMENT REMOVAL
- TEMPORARY PAVEMENT

PAVEMENT MARKINGS

- EXISTING LINES
- TEMPORARY MARKINGS
- PREVIOUSLY PLACED
- WHITE EDGE LINE
- YELLOW EDGE LINE
- BROKEN LANE LINES
- MINISKIP LANE LINES
- DOUBLE YELLOW LINES
- GORELINE
- STOP BAR

PAVEMENT MARKING SYMBOLS

- EXISTING PAVEMENT MARKING SYMBOLS (HOLLOW)
- TEMPORARY SYMBOLS
- PREVIOUSLY PLACED
- PAVEMENT MARKING SYMBOLS ONLY
- PAVEMENT MARKING ALPHANUMERIC CHARACTERS ONLY

TRAFFIC CONTROL DEVICES

- | TEMPORARY DEVICES | PREVIOUSLY PLACED | |
|-------------------|-------------------|--------------------------------|
| | | BARRICADE (TYPE III) |
| | | CONE |
| | | DRUM |
| | | FLASHING ARROW BOARD |
| | | FLAGGER |
| | | LAW ENFORCEMENT |
| | | TRUCK MOUNTED ATTENUATOR (TMA) |
| | | CHANGEABLE MESSAGE SIGN |
| | | TEMPORARY CRASH CUSHION |
| | | PORTABLE CONCRETE BARRIER |

SIGNALS

- EXISTING
- PROPOSED
- TEMPORARY

TEMPORARY SIGNING

- | TEMPORARY SIGNS | PREVIOUSLY PLACED | |
|-----------------|-------------------|-----------------------------|
| | | PORTABLE SIGN |
| | | STATIONARY SIGN |
| | | STATIONARY OR PORTABLE SIGN |

PAVEMENT MARKERS

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

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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 UNDESIRABLE 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
I-40 AND US 1	MONDAY THRU SUNDAY (EVERYDAY) FROM 5:00 A.M. TO 11:00 P.M.
ALL OTHER ROADS	MONDAY THRU SUNDAY (EVERYDAY) FROM 5:00 A.M. TO 9:00 P.M.

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

ROAD NAME
I-40 AND US 1

HOLIDAY

- FOR ANY UNEXPECTED OCCURRENCE THAT CREATES UNUSUALLY HIGH TRAFFIC VOLUMES, AS DIRECTED BY THE ENGINEER.
- FOR NEW YEAR'S, BETWEEN THE HOURS OF 5:00 A.M. DECEMBER 31ST TO 11:00 P.M. JANUARY 2ND. IF NEW YEAR'S DAY IS ON A FRIDAY, SATURDAY, SUNDAY, OR MONDAY THEN UNTIL 11:00 P.M. THE FOLLOWING TUESDAY.
- FOR EASTER, BETWEEN THE HOURS OF 5:00 A.M. THURSDAY AND 11:00 P.M. MONDAY.
- FOR MEMORIAL DAY, BETWEEN THE HOURS OF 5:00 A.M. FRIDAY TO 11:00 P.M. TUESDAY.
- FOR INDEPENDENCE DAY, BETWEEN THE HOURS OF 5:00 A.M. THE DAY BEFORE INDEPENDENCE DAY AND 11:00 P.M. THE DAY AFTER INDEPENDENCE DAY. IF INDEPENDENCE DAY IS ON A FRIDAY, SATURDAY, SUNDAY OR MONDAY; THEN BETWEEN THE HOURS OF 5:00 A.M. THE THURSDAY BEFORE INDEPENDENCE DAY AND 11:00 P.M. THE TUESDAY AFTER INDEPENDENCE DAY.
- FOR LABOR DAY, BETWEEN THE HOURS OF 5:00 A.M. FRIDAY AND 11:00 P.M. TUESDAY.
- FOR THANKSGIVING DAY, BETWEEN THE HOURS OF 5:00 A.M. TUESDAY TO 11:00 P.M. MONDAY.
- FOR CHRISTMAS, BETWEEN THE HOURS OF 5:00 A.M. THE FRIDAY BEFORE THE WEEK OF CHRISTMAS DAY AND 11:00 P.M. THE FOLLOWING TUESDAY AFTER THE WEEK OF CHRISTMAS.

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

ROAD NAME
ALL OTHER ROADS

HOLIDAY

- FOR ANY UNEXPECTED OCCURRENCE THAT CREATES UNUSUALLY HIGH TRAFFIC VOLUMES, AS DIRECTED BY THE ENGINEER.
- FOR NEW YEAR'S, BETWEEN THE HOURS OF 5:00 A.M. DECEMBER 31ST TO 9:00 P.M. JANUARY 2ND. IF NEW YEAR'S DAY IS ON A FRIDAY, SATURDAY, SUNDAY, OR MONDAY THEN UNTIL 9:00 P.M. THE FOLLOWING TUESDAY.

- FOR EASTER, BETWEEN THE HOURS OF 5:00 A.M. THURSDAY AND 9:00 P.M. MONDAY.
- FOR MEMORIAL DAY, BETWEEN THE HOURS OF 5:00 A.M. FRIDAY TO 9:00 P.M. TUESDAY.
- FOR INDEPENDENCE DAY, BETWEEN THE HOURS OF 5:00 A.M. THE DAY BEFORE INDEPENDENCE DAY AND 9:00 P.M. THE DAY AFTER INDEPENDENCE DAY. IF INDEPENDENCE DAY IS ON A FRIDAY, SATURDAY, SUNDAY OR MONDAY; THEN BETWEEN THE HOURS OF 5:00 A.M. THE THURSDAY BEFORE INDEPENDENCE DAY AND 9:00 P.M. THE TUESDAY AFTER INDEPENDENCE DAY.
- FOR LABOR DAY, BETWEEN THE HOURS OF 5:00 A.M. FRIDAY AND 9:00 P.M. TUESDAY.
- FOR THANKSGIVING DAY, BETWEEN THE HOURS OF 5:00 A.M. TUESDAY TO 9:00 P.M. MONDAY.
- FOR CHRISTMAS, BETWEEN THE HOURS OF 5:00 A.M. THE FRIDAY BEFORE THE WEEK OF CHRISTMAS DAY AND 9:00 P.M. THE FOLLOWING TUESDAY AFTER THE WEEK OF CHRISTMAS.

C) DO NOT CLOSE ROADS AS FOLLOWS:

ROAD NAME	DAY AND TIME RESTRICTIONS
I-40 AND US 1	MONDAY THROUGH SUNDAY (EVERYDAY) FROM 5:00 A.M. TO 11:00 P.M.
ALL OTHER ROADS	MONDAY THRU SUNDAY (EVERYDAY) FROM 5:00 A.M. TO 9:00 P.M.

LANE AND SHOULDER CLOSURE REQUIREMENTS

- 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.
- 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.
- 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.
- 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.

TRAFFIC PATTERN ALTERATIONS

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

SIGNING

- 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 AND TRANSPORTATION MANAGEMENT PLANS.
- AND
- PROVIDE SIGNING REQUIRED FOR THE OFF-SITE DETOUR ROUTE AS SHOWN IN THE TRANSPORTATION MANAGEMENT PLANS.
- 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.
- ENSURE ALL NECESSARY SIGNING IS IN PLACE PRIOR TO ALTERING ANY TRAFFIC PATTERN.
 - 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 CONTROL DEVICES

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




PAVEMENT MARKINGS AND MARKERS

- TIE PROPOSED PAVEMENT MARKING LINES TO EXISTING PAVEMENT MARKING LINES.
- REMOVE/REPLACE ANY CONFLICTING/DAMAGED PAVEMENT MARKINGS AND MARKERS BY THE END OF EACH DAY'S OPERATION.

MISCELLANEOUS

- ALL DIMENSIONS AND STATIONS IN THE TRANSPORTATION MANAGEMENT PLAN AND PHASING ARE APPROXIMATE (+/-); FIELD ADJUST AS NECESSARY OR AS DIRECTED BY THE ENGINEER.
- USE LAW ENFORCEMENT TO DIRECT TRAFFIC AND ENFORCE ROAD CLOSURES. LOCATIONS SHOWN IN THE PLANS ARE APPROXIMATE AND MAY BE REVISED AS THE OFFICER OR THE ENGINEER DEEM NECESSARY.
- IN THE EVENT OF FALLING DEBRIS OR WATER USE LAW ENFORCEMENT TO DIRECT TRAFFIC BELOW THE BRIDGE.

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PHASING

PROJ. REFERENCE NO.	SHEET NO.
15BPR.124.3	TMP-3

BRIDGE #310306

NOTE: PHASES I AND II ARE INTERCHANGEABLE.

PHASE I

STEP 1
INSTALL AND COVER ALL NECESSARY DETOUR ROUTE SIGNS. SEE TMP-4B.

STEP 2
USING RSD 1101.02, SHEET 3 OF 14, AND TMP-4B, UNCOVER ALL DETOUR ROUTE SIGNS. USING RSD 1101.02, SHEET 3 OF 14, AND TMP-4 THRU TMP-4A, CLOSE FAYETTEVILLE RD AND LEFT TURN RAMPS AND PLACE TRAFFIC ONTO PROPOSED DETOUR SHOWN ON TMP-4B.

STEP 3
WITH TRAFFIC ON THE DETOUR(S) AND THE BRIDGE CLOSED, CONDUCT THE FOLLOWING AWAY FROM TRAFFIC:

- SAW CUT EXISTING BARRIER RAIL
- SHOTBLAST BRIDGE DECK AND BARRIER RAILS
- APPLY DECK SEALANT TO PREPARED TOP OF BRIDGE DECK
- REMOVE EXISTING JOINT MATERIAL AND INSTALL FOAM JOINTS
- REPLACE EXISTING JOINT GLAND OF EXPANSION JOINT SEAL

STEP 4
INSTALL FINAL PAVEMENT MARKINGS.

STEP 5
COVER ALL DETOUR ROUTE SIGNS AND REOPEN FAYETTEVILLE RD AND LEFT TURN RAMPS.

STEP 6
REPEAT STEPS 2 THRU 5 AS NECESSARY UNTIL BRIDGE DECK WORK IS COMPLETE.

PHASE II

NOTE: I-40 EB AND I-40 WB CLOSURES ARE INTERCHANGEABLE.

STEP 1
INSTALL AND COVER ALL NECESSARY DETOUR ROUTE SIGNS AND DEVICES. SEE TMP-4C.

STEP 2
USING RSD 1101.03, SHEET 7 OF 9, AND TMP-4C, UNCOVER ALL DETOUR ROUTE SIGNS AND CLOSE I-40 EB.

STEP 3
WITH TRAFFIC ON THE DETOUR(S) AND THE BRIDGE CLOSED, CONDUCT THE FOLLOWING AWAY FROM TRAFFIC:

- CLEAN AND PAINT STRUCTURAL STEEL
- REMOVE DEBRIS FROM TOP OF EXISTING END BENT AND BENT CAPS AND APPLY EPOXY COATING
- REMOVE EXISTING SLOPE PROTECTION EXPANSION JOINT MATERIAL AND INSTALL POURABLE SILICONE JOINT SEALANT

STEP 4
COVER ALL DETOUR ROUTE SIGNS AND REOPEN I-40 EB.

STEP 5
REPEAT STEPS 1 THRU 4 AS NECESSARY UNTIL WORK OVER I-40 EB IS COMPLETE.

STEP 6
REPEAT STEPS 1 THRU 5, USING TMP-4D, FOR I-40 WB LANES.

BRIDGE #911039

STEP 1
INSTALL AND COVER ALL NECESSARY DETOUR ROUTE SIGNS. SEE TMP-5.

STEP 2
UNCOVER ALL DETOUR ROUTE SIGNS AND USING RSD 1101.02, SHEET 3 OF 14, AND TMP-5, CLOSE ROGERS LANE AND PLACE TRAFFIC ONTO PROPOSED DETOUR SHOWN ON TMP-5.

STEP 3
WITH TRAFFIC ON THE DETOUR(S) AND THE BRIDGE CLOSED, CONDUCT THE FOLLOWING AWAY FROM TRAFFIC:

- SHOTBLAST TOP OF BRIDGE DECK
- APPLY DECK SEALANT TO PREPARED TOP OF BRIDGE DECK
- REMOVE EXISTING JOINT MATERIAL AND INSTALL FOAM JOINTS
- MILL AND REPAVE ASPHALT ROADWAYS

STEP 4
INSTALL FINAL PAVEMENT MARKINGS.

STEP 5
COVER ALL DETOUR ROUTE SIGNS AND REOPEN ROGERS LANE.

STEP 6
REPEAT STEPS 1 THRU 5 AS NECESSARY UNTIL WORK ON ROGERS LANE IS COMPLETE.

BRIDGE #911083

NOTE: WORK ON BRIDGES #911083 AND #911084 MUST NOT BE DONE CONCURRENTLY. PHASES I AND II ARE INTERCHANGEABLE.

PHASE I

STEP 1
INSTALL AND COVER ALL NECESSARY DETOUR ROUTE SIGNS. SEE TMP-6D.

STEP 2
USING RSD 1101.02, SHEET 3 OF 14, AND TMP-6D, UNCOVER ALL DETOUR ROUTE SIGNS. USING RSD 1101.02, SHEET 3 OF 14, AND TMP-6 THRU TMP-6C, CLOSE NC 98 EAST AND PLACE TRAFFIC ONTO PROPOSED DETOUR SHOWN ON TMP-6D.

STEP 3
WITH TRAFFIC ON THE DETOUR(S) AND THE BRIDGE CLOSED, CONDUCT THE FOLLOWING AWAY FROM TRAFFIC:

- SHOTBLAST TOP OF BRIDGE DECK
- APPLY DECK SEALANT TO PREPARED TOP OF BRIDGE DECK
- REMOVE EXISTING JOINT MATERIAL AND INSTALL FOAM JOINTS
- MILL AND REPAVE ASPHALT APPROACH ROADWAYS

STEP 4
INSTALL FINAL PAVEMENT MARKINGS.

STEP 5
COVER ALL DETOUR ROUTE SIGNS AND REOPEN NC 98 AND LEFT TURN RAMPS.

STEP 6
REPEAT STEPS 2 THRU 5 AS NECESSARY UNTIL BRIDGE DECK WORK IS COMPLETE.

BRIDGE #911083

NOTE: US 1 NB AND US 1 SB CLOSURES ARE INTERCHANGEABLE.

PHASE II

STEP 1
INSTALL AND COVER ALL NECESSARY DETOUR ROUTE SIGNS AND DEVICES. SEE TMP-6F.

STEP 2
USING RSD 1101.03, SHEET 7 OF 9, AND TMP-6F UNCOVER ALL DETOUR ROUTE SIGNS AND CLOSE US 1 NB.

STEP 3
WITH TRAFFIC ON THE DETOUR(S) AND THE BRIDGE CLOSED, CONDUCT THE FOLLOWING AWAY FROM TRAFFIC:

- CLEAN AND ZONE PAINT EXISTING STRUCTURAL WEATHERING STEEL BEAMS
- REMOVE DEBRIS FROM TOP OF EXISTING END BENT AND BENT CAPS AND APPLY EPOXY COATING

STEP 4
COVER ALL DETOUR ROUTE SIGNS AND REOPEN US 1 NB.

STEP 5
REPEAT STEPS 2 THRU 4 AS NECESSARY UNTIL WORK OVER US 1 NB IS COMPLETE.


STEP 6
REPEAT STEPS 2 THRU 4, USING TMP-6F, FOR US 1 SB LANES.

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Regina M. Muncy
6/8/2023



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

PHASING

PHASING

PROJ. REFERENCE NO.	SHEET NO.
15BPR.124.3	TMP-3A

BRIDGE #911084

NOTE: WORK ON BRIDGES #911083 AND #911084 MUST NOT BE DONE CONCURRENTLY. PHASES I AND II ARE INTERCHANGEABLE.

PHASE I

STEP 1
INSTALL AND COVER ALL NECESSARY DETOUR ROUTE SIGNS. SEE TMP-7C.

STEP 2
USING RSD 1101.02, SHEET 3 OF 14, AND TMP-7C, UNCOVER ALL DETOUR ROUTE SIGNS. USING RSD 1101.02, SHEET 3 OF 14, AND TMP-7 THRU TMP-7B, CLOSE NC 98 EAST AND PLACE TRAFFIC ONTO PROPOSED DETOUR SHOWN ON TMP-7C.

STEP 3
WITH TRAFFIC ON THE DETOUR(S) AND THE BRIDGE CLOSED, CONDUCT THE FOLLOWING AWAY FROM TRAFFIC:

- PARTIALLY REMOVE TOP OF BRIDGE DECK CONCRETE BY SCARIFICATION AND SHOUTBLASTING METHODS
- APPLY DECK SEALANT TO PREPARED TOP OF BRIDGE DECK
- REMOVE EXISTING JOINT MATERIAL AND INSTALL FOAM JOINTS
- REPLACE EXISTING JOINT GLAND OF EXPANSION JOINT SEALS
- CLEAN AND EXPOXY COAT EXISTING PRESTRESSED CONCRETE GIRDER ENDS
- REMOVE DEBRIS FROM TOP OF EXISTING END BENT AND BENT CAPS AND APPLY EPOXY COATING

STEP 4
INSTALL FINAL PAVEMENT MARKINGS.

STEP 5
COVER ALL DETOUR ROUTE SIGNS AND REOPEN NC 98 EAST.

STEP 6
REPEAT STEPS 2 THRU 5 AS NECESSARY UNTIL BRIDGE DECK WORK IS COMPLETE.

PHASE II

STEP 1
INSTALL AND COVER ALL NECESSARY DETOUR ROUTE SIGNS. SEE TMP-7G.

STEP 2
USING RSD 1101.02, SHEET 3 OF 14, AND TMP-7G, UNCOVER ALL DETOUR ROUTE SIGNS. USING RSD 1101.02, SHEET 3 OF 14, AND TMP-7D THRU TMP-7F, CLOSE NC 98 WEST AND PLACE TRAFFIC ONTO PROPOSED DETOUR SHOWN ON TMP-7G.

STEP 3
WITH TRAFFIC ON THE DETOUR(S) AND THE BRIDGE CLOSED, CONDUCT THE FOLLOWING AWAY FROM TRAFFIC:

- PARTIALLY REMOVE TOP OF BRIDGE DECK CONCRETE BY SCARIFICATION AND SHOUTBLASTING METHODS
- APPLY DECK SEALANT TO PREPARED TOP OF BRIDGE DECK
- REMOVE EXISTING JOINT MATERIAL AND INSTALL FOAM JOINTS
- REPLACE EXISTING JOINT GLAND OF EXPANSION JOINT SEALS
- CLEAN AND EXPOXY COAT EXISTING PRESTRESSED CONCRETE GIRDER ENDS
- REMOVE DEBRIS FROM TOP OF EXISTING END BENT AND BENT CAPS AND APPLY EPOXY COATING

STEP 4
INSTALL FINAL PAVEMENT MARKINGS.

STEP 5
COVER ALL DETOUR ROUTE SIGNS AND REOPEN NC 98 WEST.

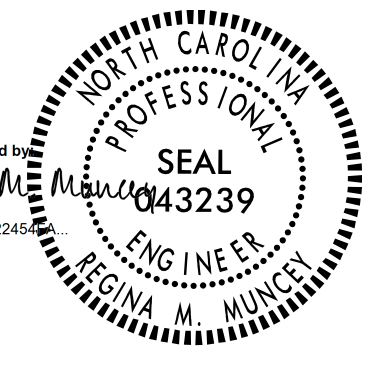
STEP 6
REPEAT STEPS 2 THRU 6 AS NECESSARY UNTIL BRIDGE DECK WORK IS COMPLETE.

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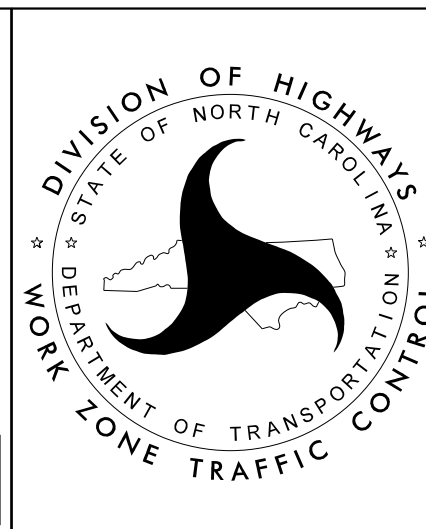


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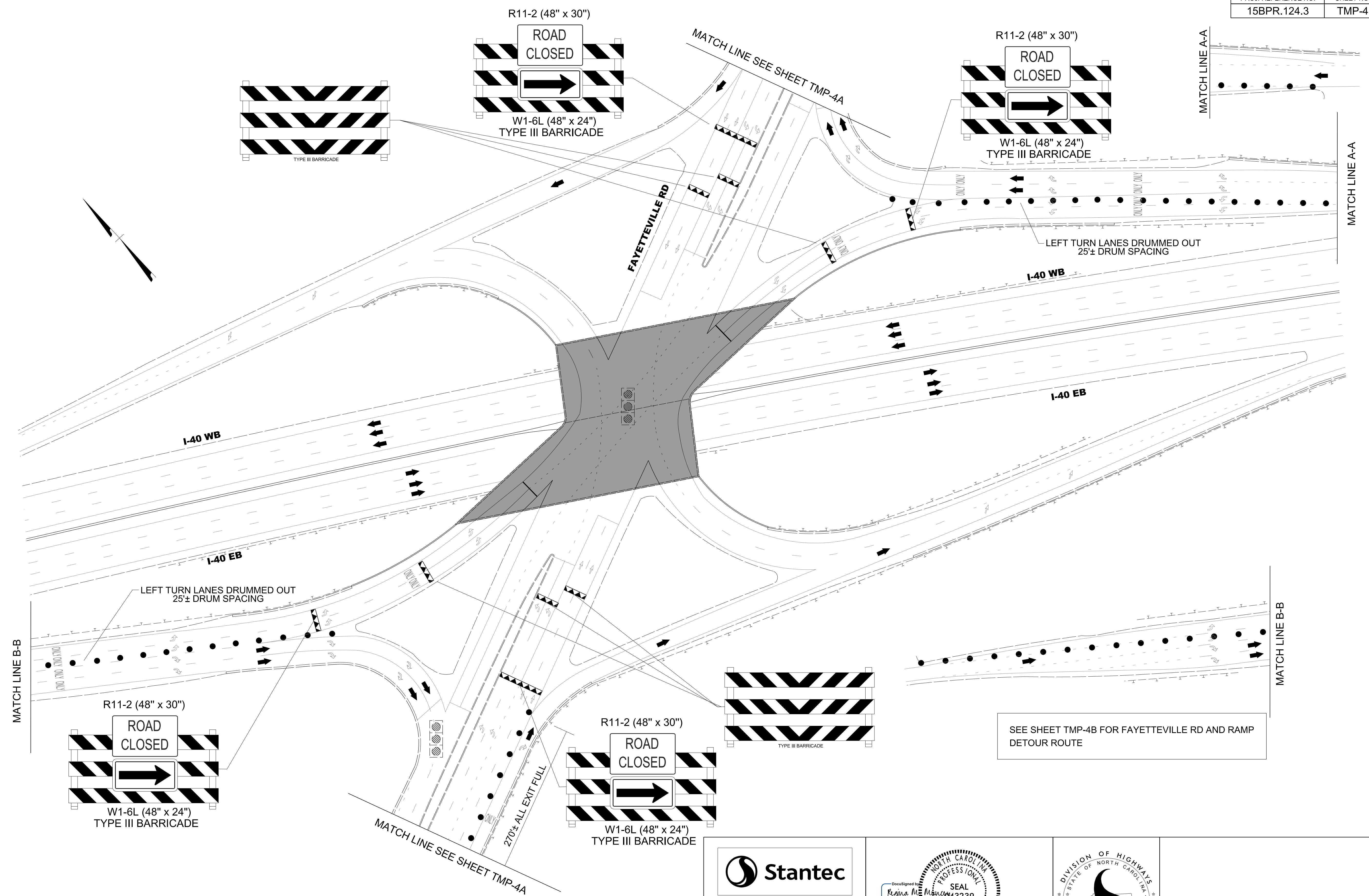
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PHASING

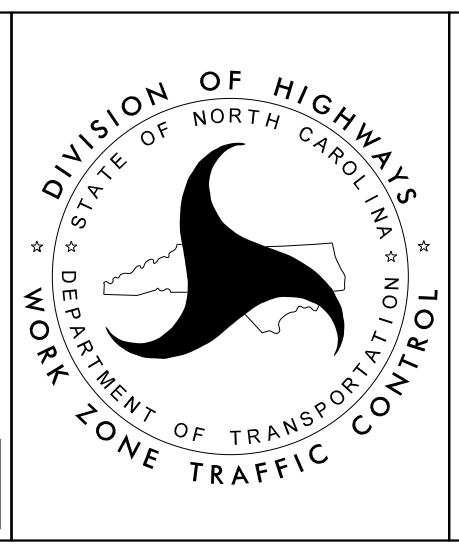


SEE SHEET TMP-4B FOR FAYETTEVILLE RD AND RAMP
DETOUR ROUTE

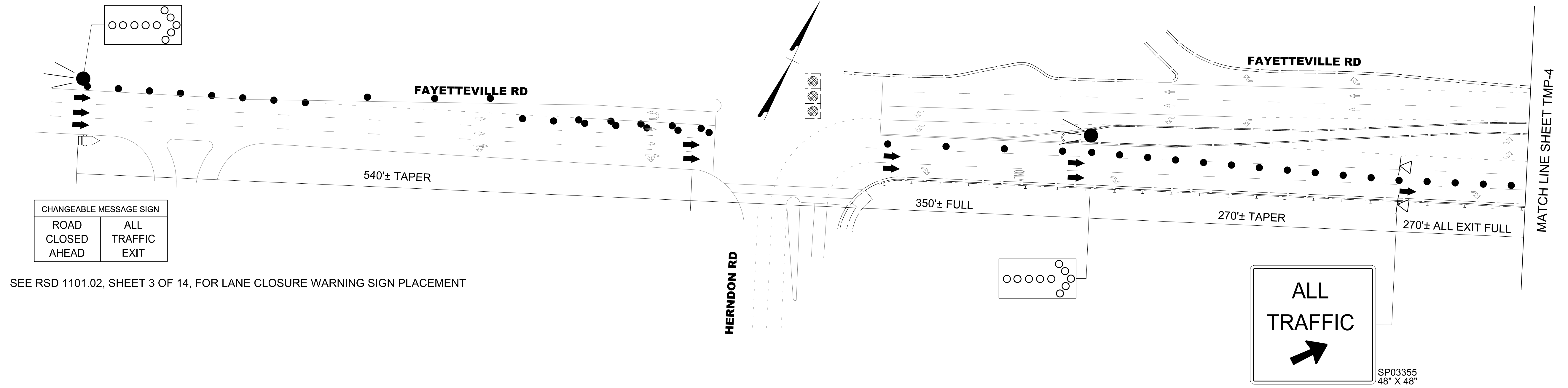
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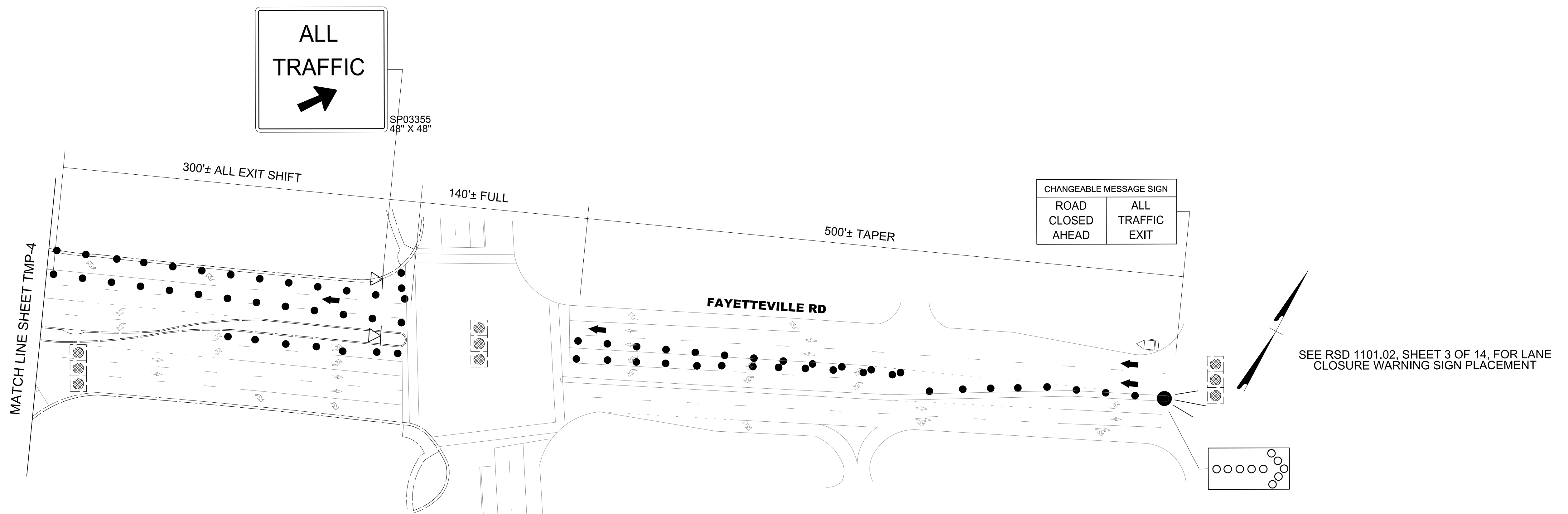
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**BRIDGE 310306
 PHASE I**



SEE RSD 1101.02, SHEET 3 OF 14, FOR LANE CLOSURE WARNING SIGN PLACEMENT

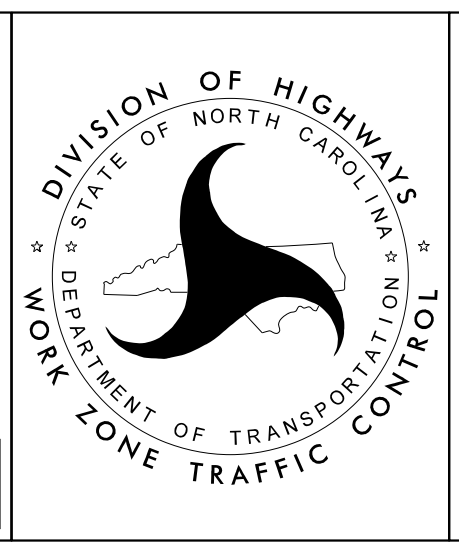


SEE RSD 1101.02, SHEET 3 OF 14, FOR LANE CLOSURE WARNING SIGN PLACEMENT

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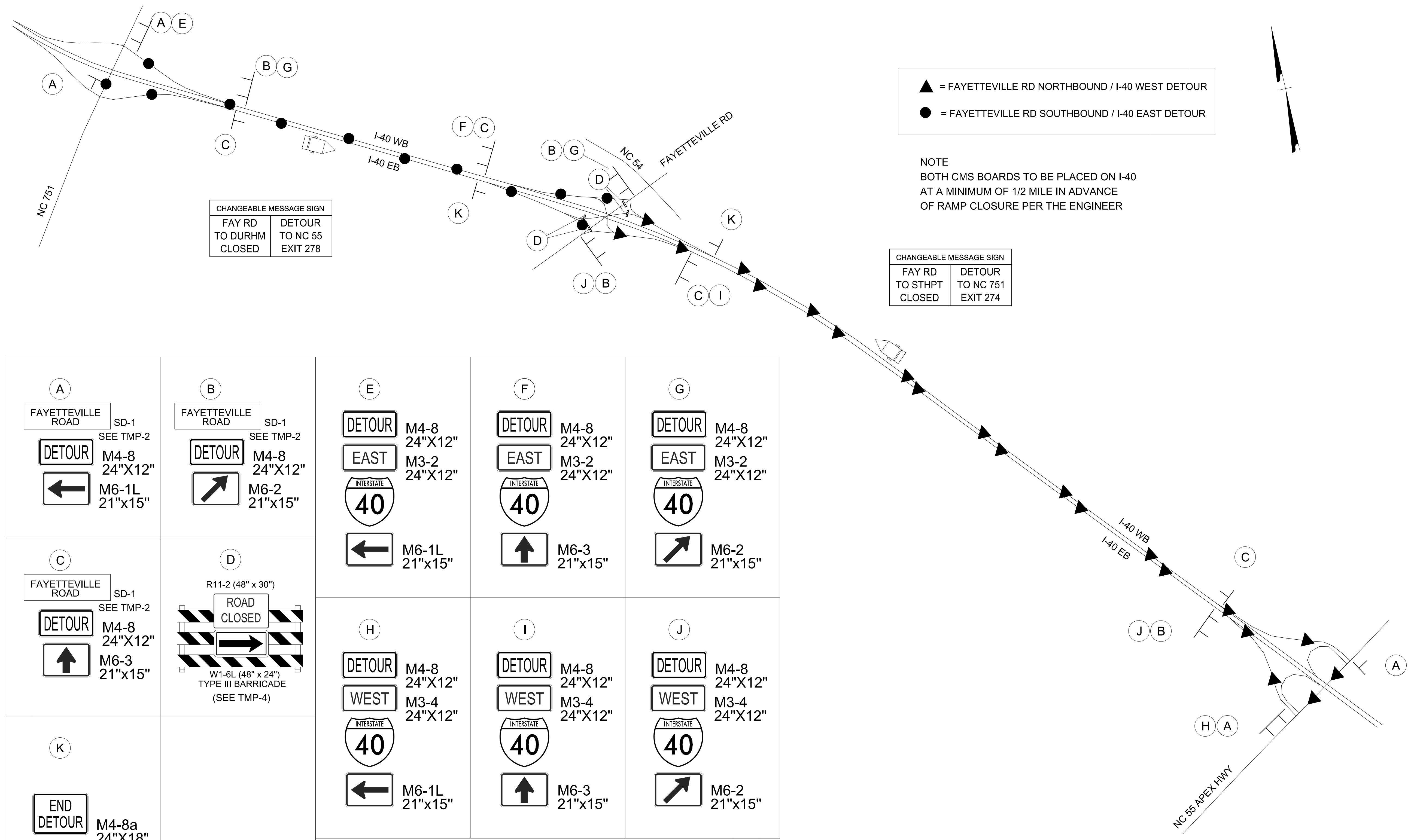
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**BRIDGE 310306
 PHASE I**

NC 54

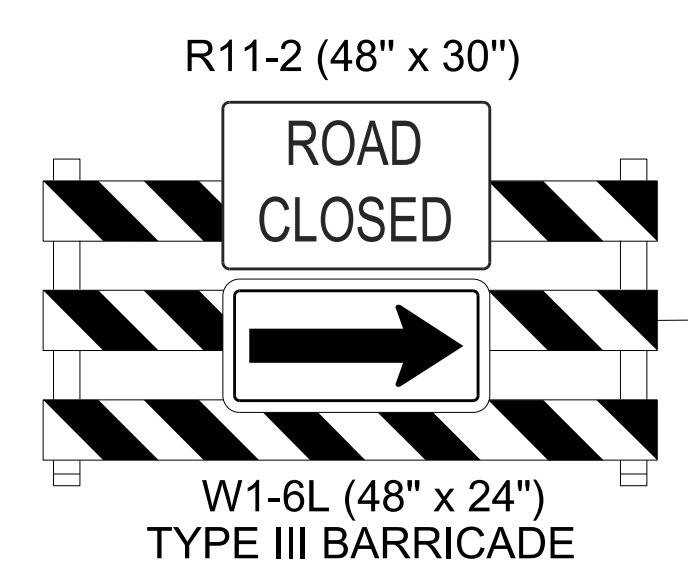


<p>A</p> <p>FAYETTEVILLE ROAD SD-1 SEE TMP-2</p> <p>DETOUR M4-8 24"x12"</p> <p>← M6-1L 21"x15"</p>	<p>B</p> <p>FAYETTEVILLE ROAD SD-1 SEE TMP-2</p> <p>DETOUR M4-8 24"x12"</p> <p>↗ M6-2 21"x15"</p>	<p>E</p> <p>DETOUR M4-8 24"x12"</p> <p>EAST M3-2 24"x12"</p> <p>INTERSTATE 40</p> <p>← M6-1L 21"x15"</p>	<p>F</p> <p>DETOUR M4-8 24"x12"</p> <p>EAST M3-2 24"x12"</p> <p>INTERSTATE 40</p> <p>↑ M6-3 21"x15"</p>	<p>G</p> <p>DETOUR M4-8 24"x12"</p> <p>EAST M3-2 24"x12"</p> <p>INTERSTATE 40</p> <p>↗ M6-2 21"x15"</p>
<p>C</p> <p>FAYETTEVILLE ROAD SD-1 SEE TMP-2</p> <p>DETOUR M4-8 24"x12"</p> <p>↑ M6-3 21"x15"</p>	<p>D</p> <p>R11-2 (48" x 30") ROAD CLOSED</p> <p>W1-6L (48" x 24") TYPE III BARRICADE (SEE TMP-4)</p>	<p>H</p> <p>DETOUR M4-8 24"x12"</p> <p>WEST M3-4 24"x12"</p> <p>INTERSTATE 40</p> <p>← M6-1L 21"x15"</p>	<p>I</p> <p>DETOUR M4-8 24"x12"</p> <p>WEST M3-4 24"x12"</p> <p>INTERSTATE 40</p> <p>↑ M6-3 21"x15"</p>	<p>J</p> <p>DETOUR M4-8 24"x12"</p> <p>WEST M3-4 24"x12"</p> <p>INTERSTATE 40</p> <p>↗ M6-2 21"x15"</p>
<p>K</p> <p>END DETOUR M4-8a 24"x18"</p>				

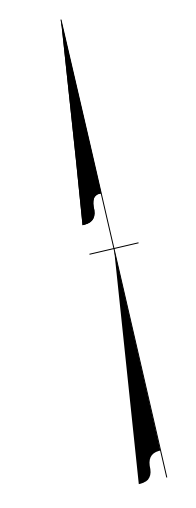
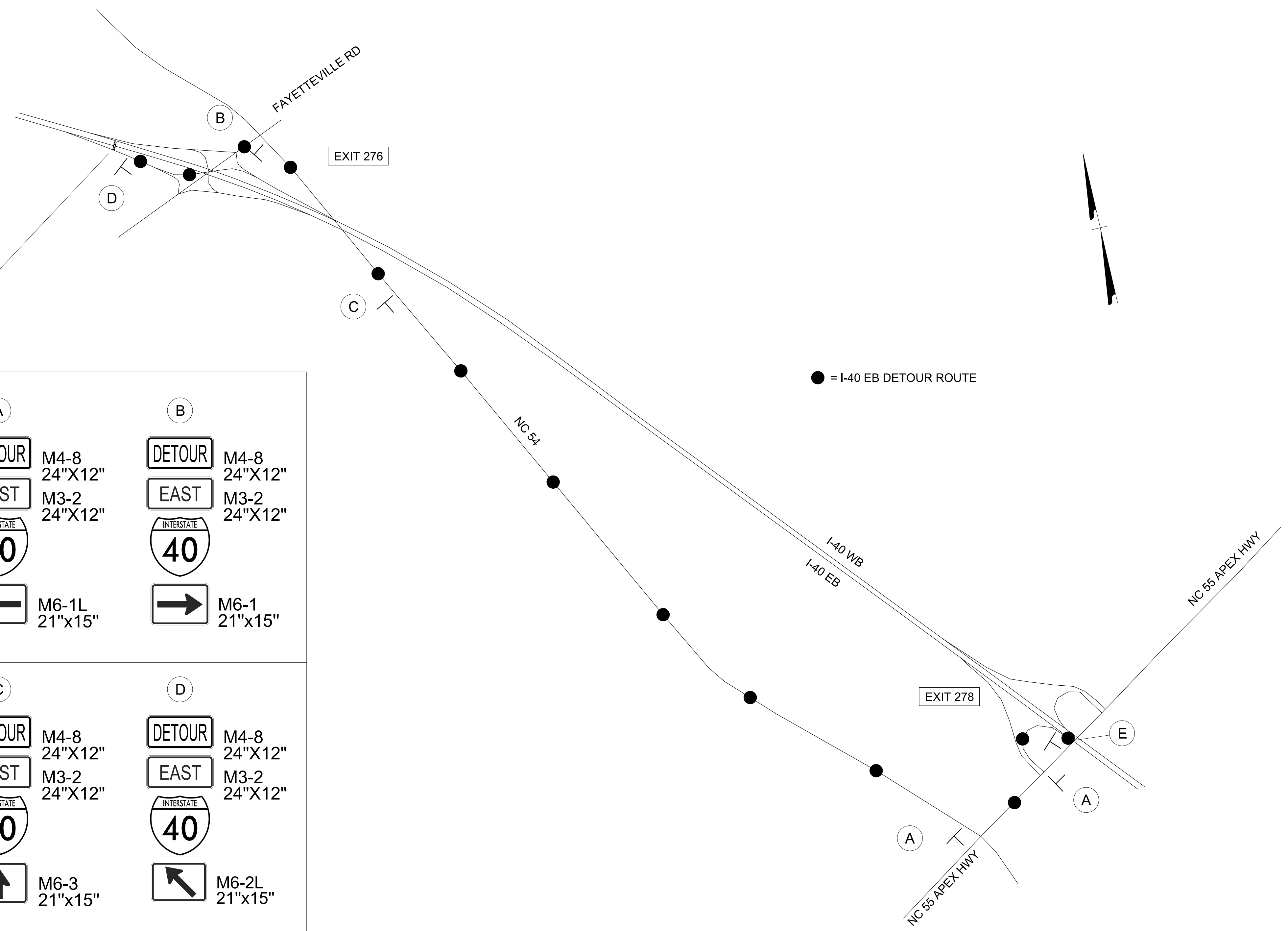
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SEE RSD 1101.03, SHEET 7 OF 9 AND RSD 1101.02, SHEET 8 OF 14, FOR ALL EXIT DEVICE SET UP ON I-40 EB



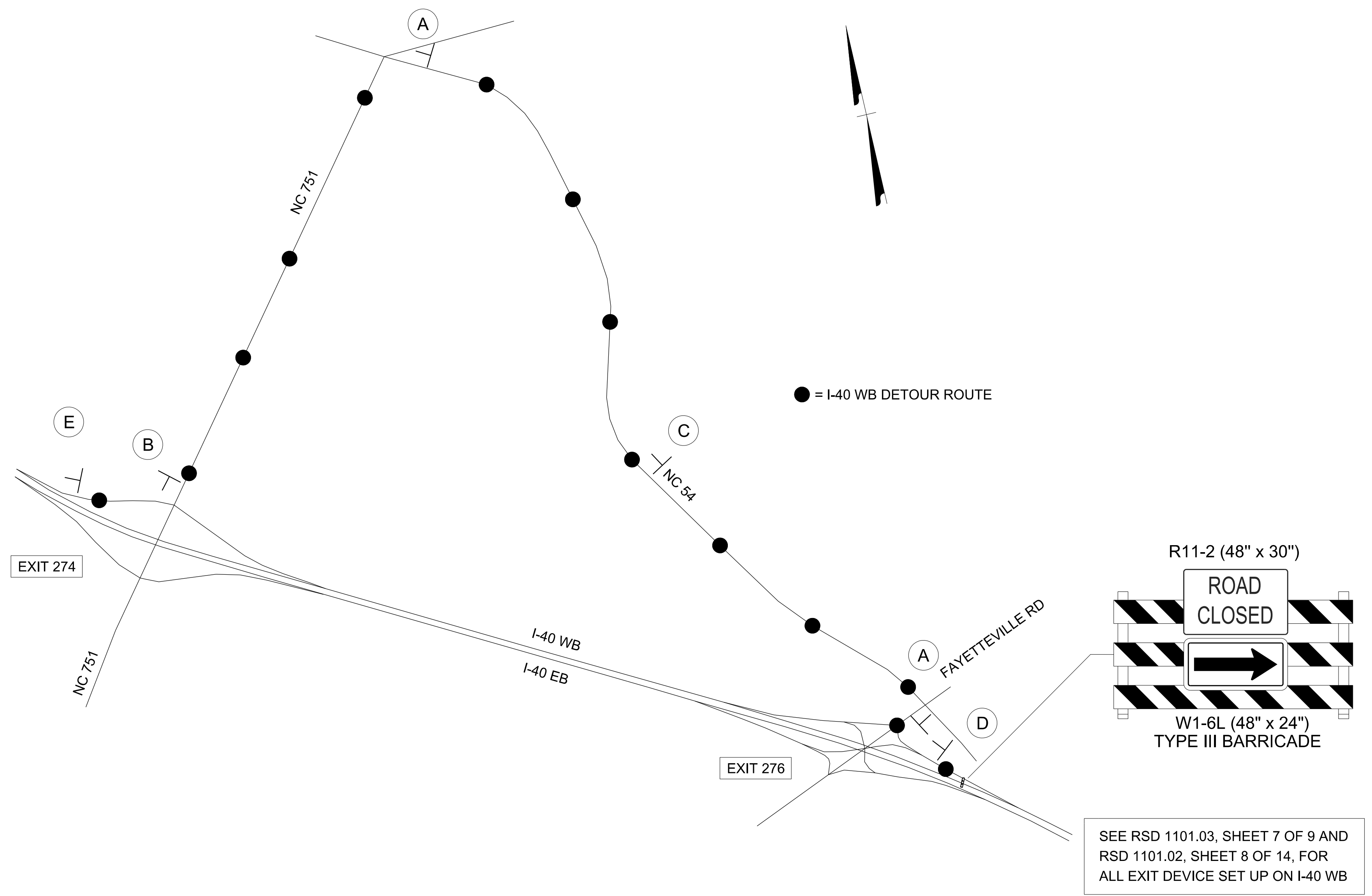
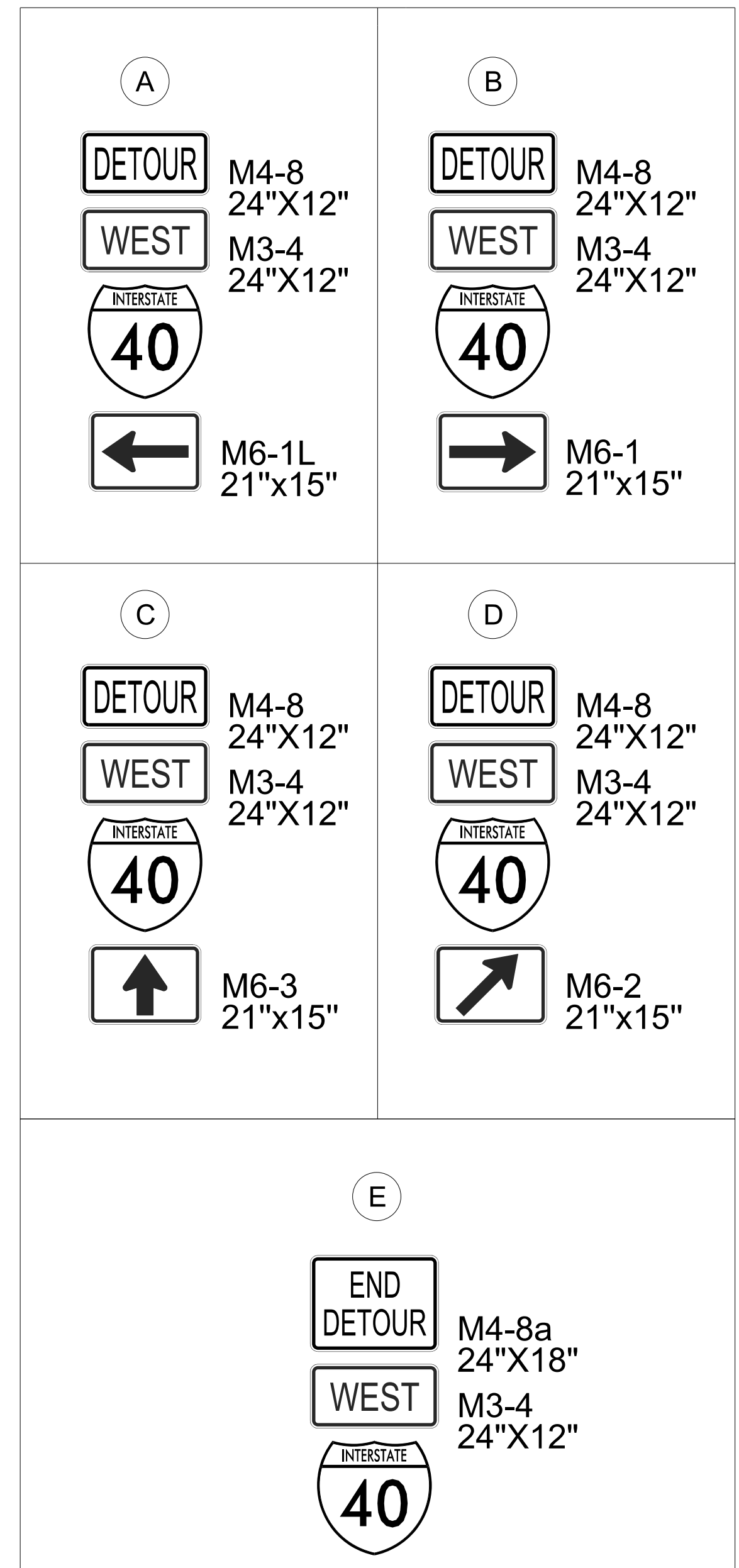
A	DETOUR M4-8 24"x12" EAST M3-2 24"x12" INTERSTATE 40 ← M6-1L 21"x15"	B	DETOUR M4-8 24"x12" EAST M3-2 24"x12" INTERSTATE 40 → M6-1 21"x15"
C	DETOUR M4-8 24"x12" EAST M3-2 24"x12" INTERSTATE 40 ↑ M6-3 21"x15"	D	DETOUR M4-8 24"x12" EAST M3-2 24"x12" INTERSTATE 40 ↖ M6-2L 21"x15"
E		END DETOUR M4-8a 24"x18" EAST M3-2 24"x12" INTERSTATE 40	



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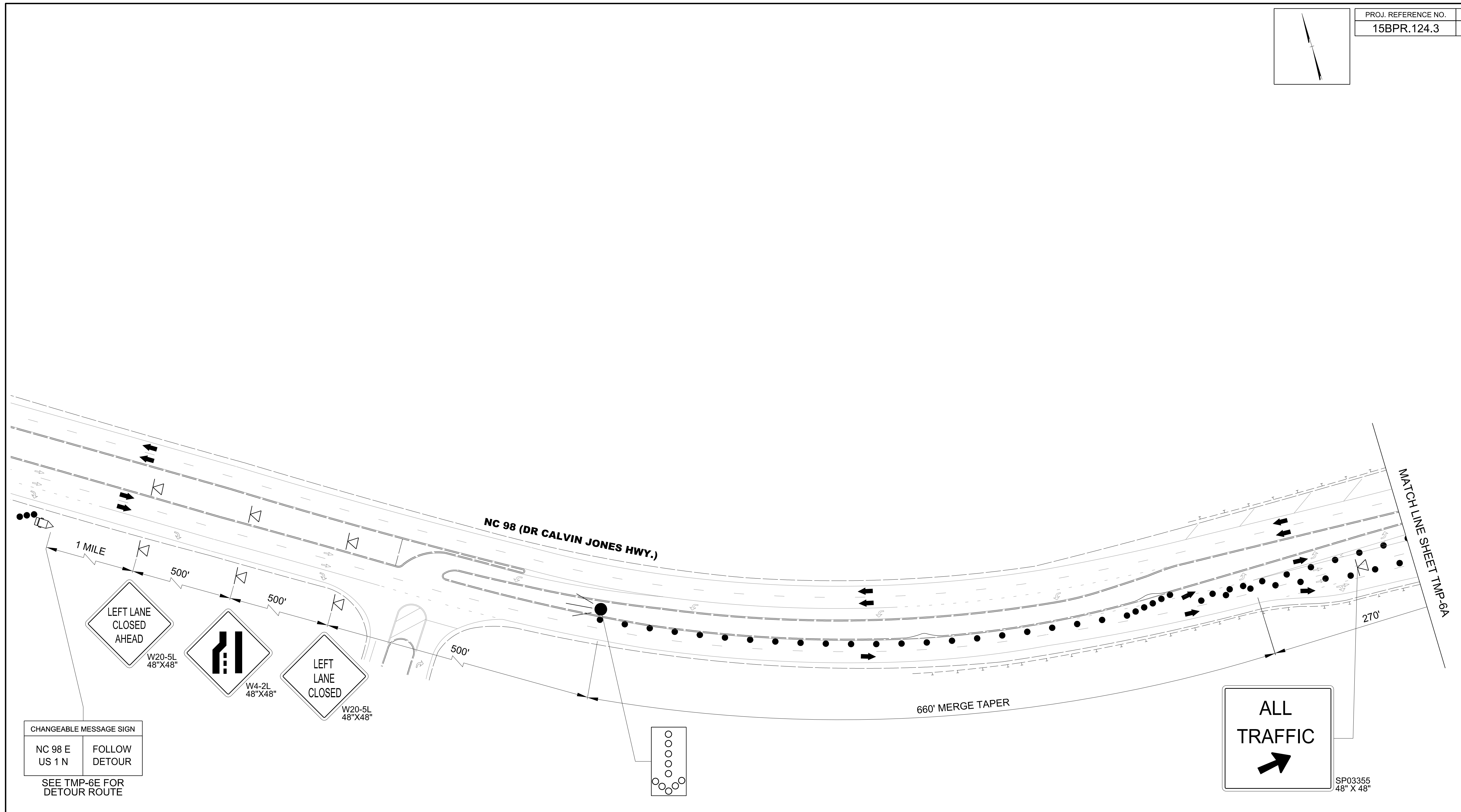
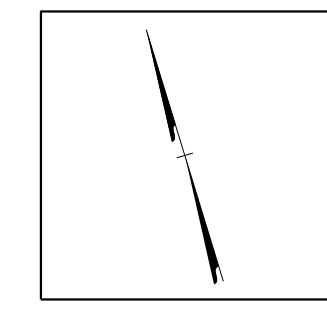
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BRIDGE 310306
PHASE II
I-40 WB
DETOUR ROUTE



CHANGEABLE MESSAGE SIGN
 NC 98 E FOLLOW US 1 N
 US 1 N FOLLOW DETOUR
 SEE TMP-6E FOR DETOUR ROUTE

ALL TRAFFIC
 SP03355
 48" X 48"

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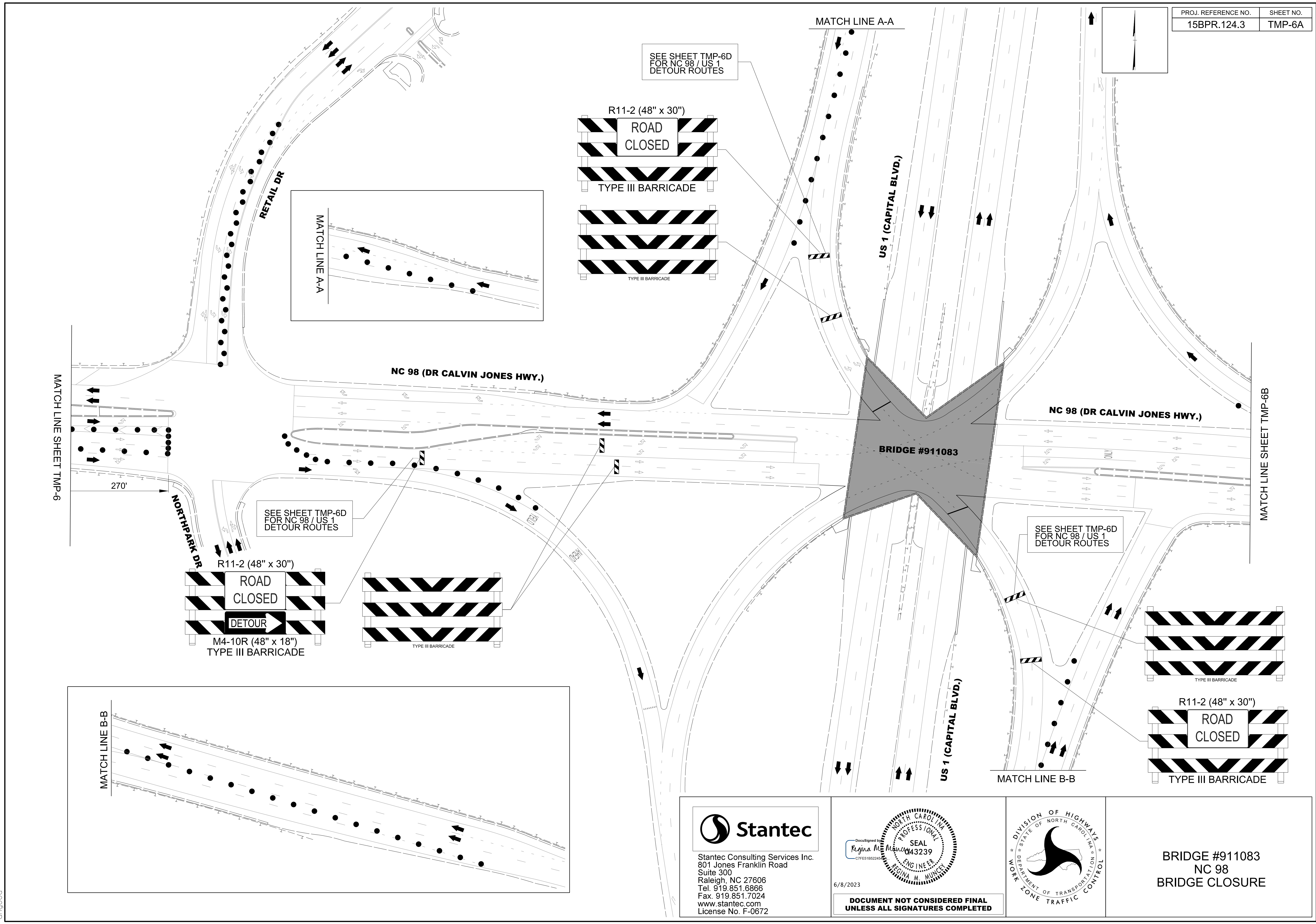
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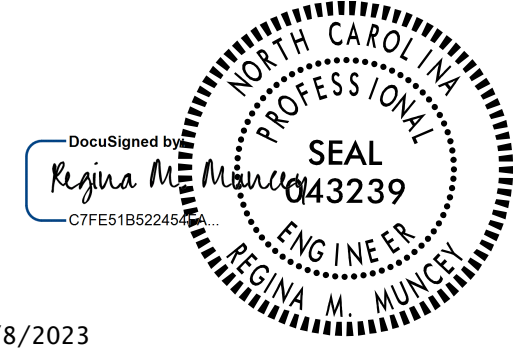
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 WORK ZONE TRAFFIC CONTROL


BRIDGE #911083
 NC 98
 BRIDGE CLOSURE



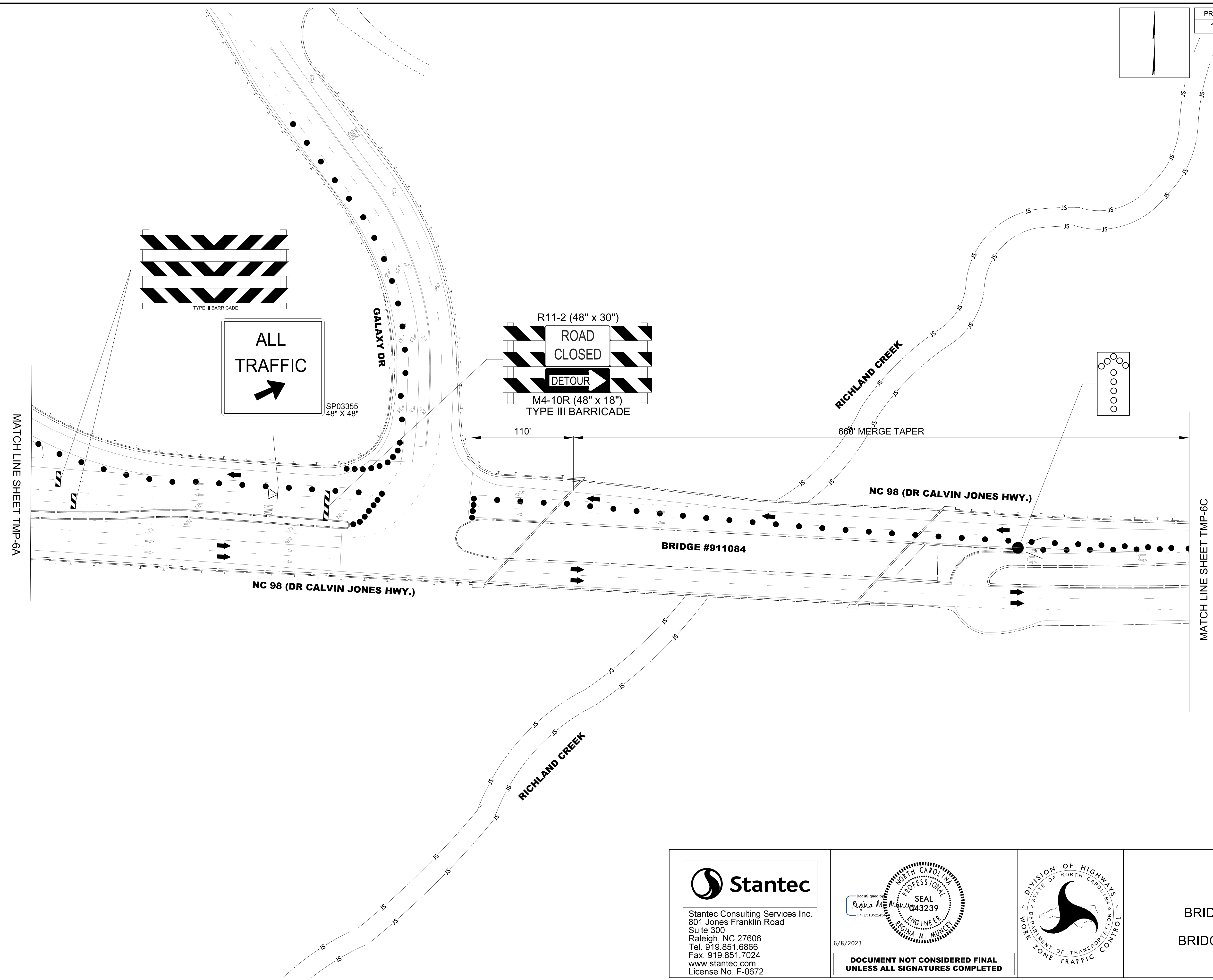
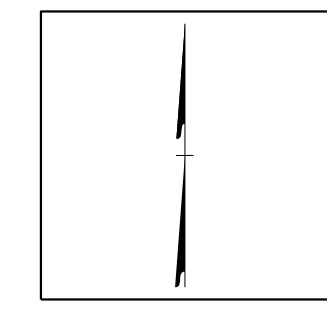
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BRIDGE #911083
 NC 98
 BRIDGE CLOSURE



MATCH LINE SHEET TMP-6A

MATCH LINE SHEET TMP-6C

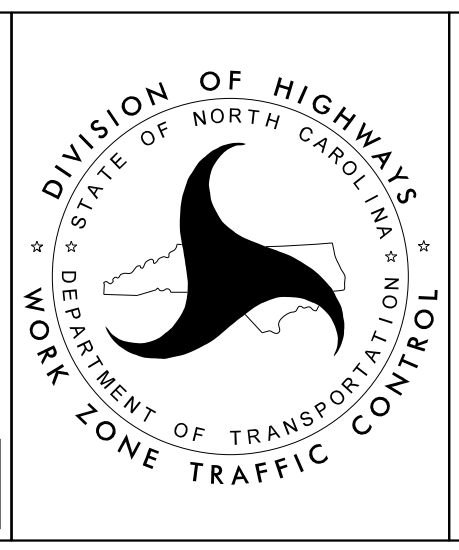
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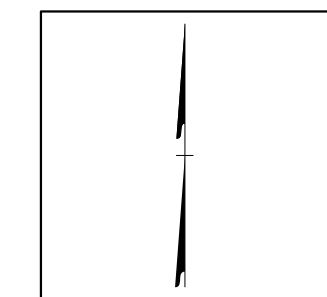
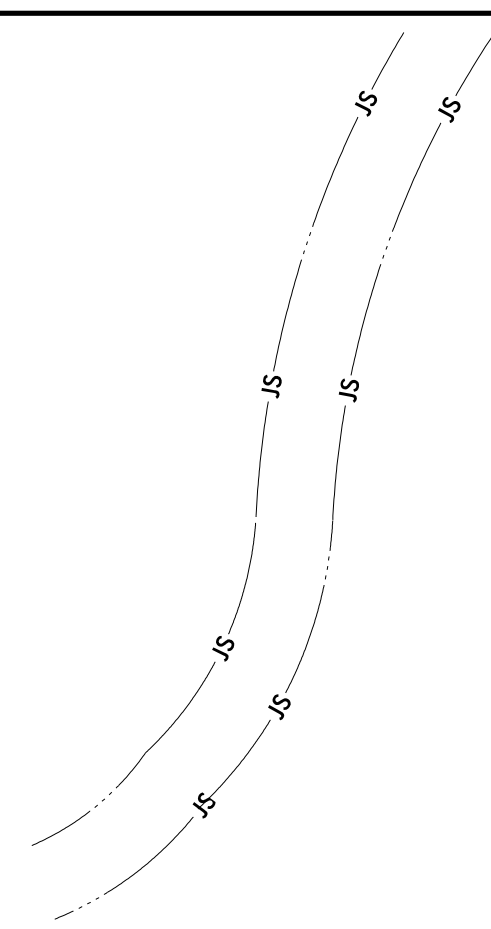
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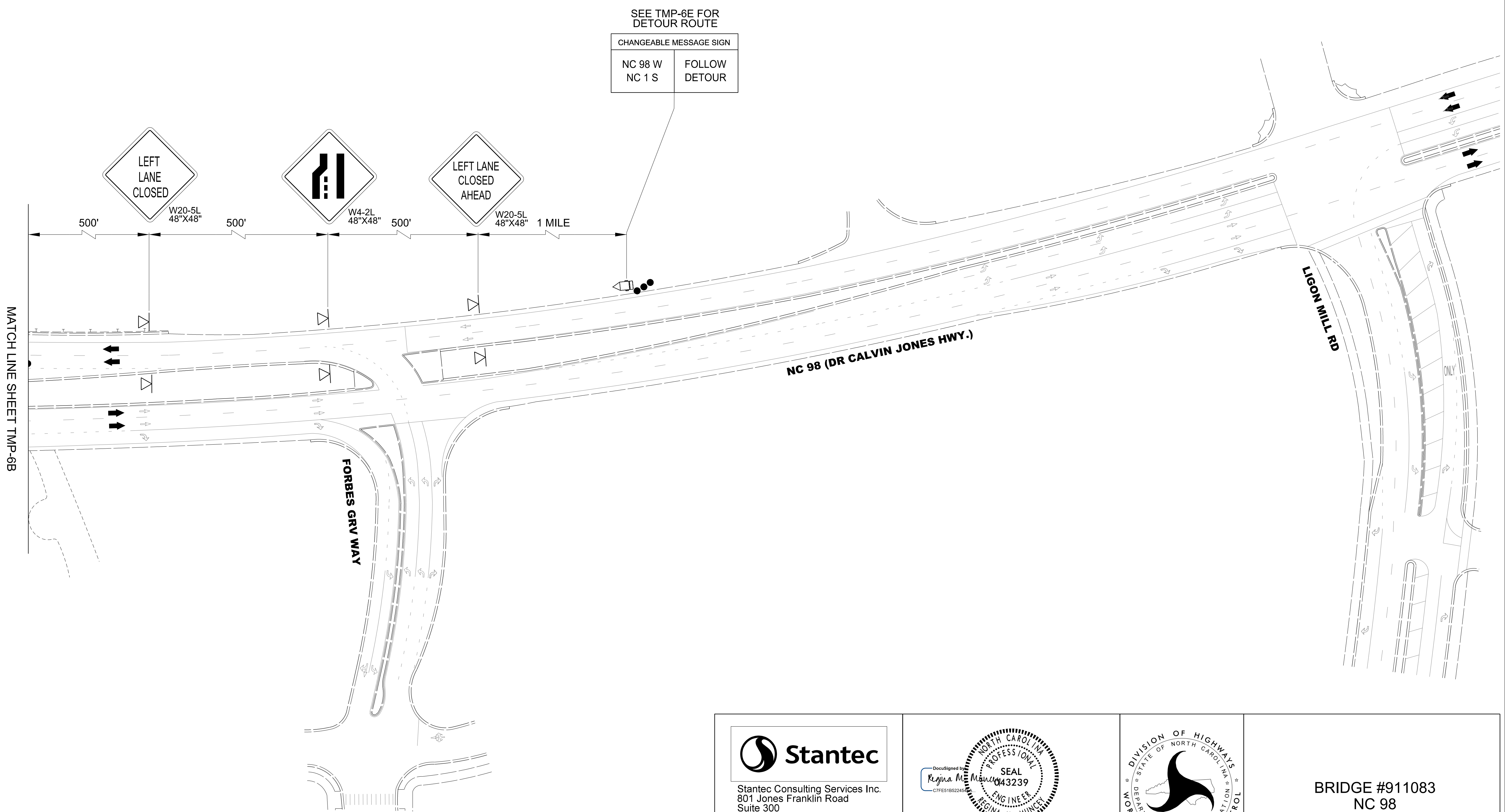


**BRIDGE #911083
NC 98
BRIDGE CLOSURE**

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PROJ. REFERENCE NO.	SHEET NO.
15BPR.124.3	TMP-6C

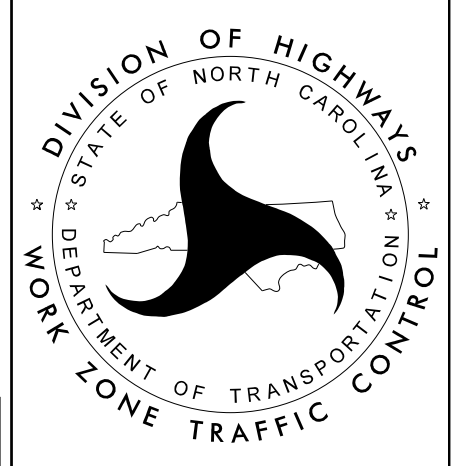


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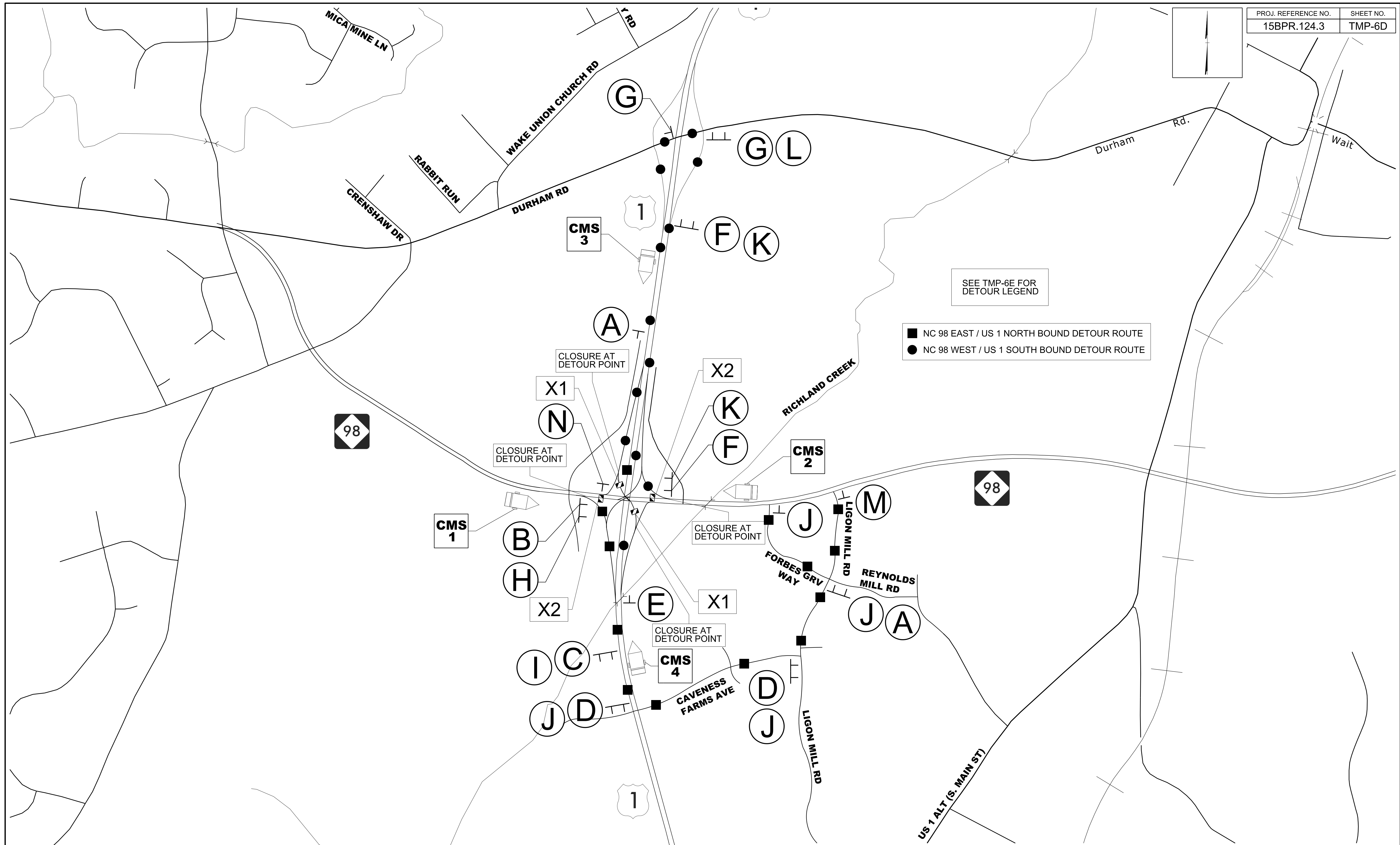


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NC 98
BRIDGE CLOSURE**



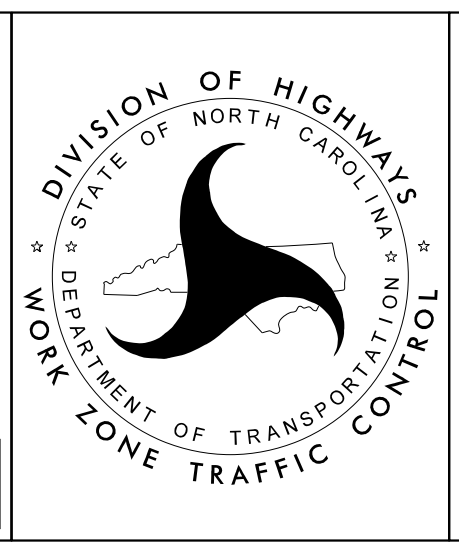
SEE TMP-6E FOR
DETOUR LEGEND

- NC 98 EAST / US 1 NORTH BOUND DETOUR ROUTE
- NC 98 WEST / US 1 SOUTH BOUND DETOUR ROUTE

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**BRIDGE #911083
 NC 98 / US 1
 DETOUR ROUTES**

(A)

DETOUR M4-8 24"x12"
EAST M3-2 24"x12"

98 M1-5 24"x24"

↑ M6-3 21"x15"

(B)

DETOUR M4-8 24"x12"
EAST M3-2 24"x12"

98 M1-5 24"x24"

↗ M6-2 21"x15"

(C)

DETOUR M4-8 24"x12"
EAST M3-2 24"x12"

98 M1-5 24"x24"

↖ M5-1 21"x15"

(D)

DETOUR M4-8 24"x12"
EAST M3-2 24"x12"

98 M1-5 24"x24"

← M6-1L 21"x15"

(E)

DETOUR M4-8 24"x12"
WEST M3-4 24"x12"

98 M1-5 24"x24"

↑ M6-3 21"x15"

(F)

DETOUR M4-8 24"x12"
WEST M3-4 24"x12"

98 M1-5 24"x24"

↗ M6-2 21"x15"

(G)

DETOUR M4-8 24"x12"
WEST M3-4 24"x12"

98 M1-5 24"x24"

← M6-1L 21"x15"

(H)

DETOUR M4-8 24"x12"
NORTH M3-1 24"x12"

1 M1-4 24"x24"

↗ M6-2 21"x15"

(I)

DETOUR M4-8 24"x12"
NORTH M3-1 24"x12"

1 M1-4 24"x24"

↖ M5-1 21"x15"

(J)

DETOUR M4-8 24"x12"
NORTH M3-1 24"x12"

1 M1-4 24"x24"

← M6-1L 21"x15"

(K)

DETOUR M4-8 24"x12"
SOUTH M3-3 24"x12"

1 M1-4 24"x24"

↗ M6-2 21"x15"

(L)

DETOUR M4-8 24"x12"
SOUTH M3-3 24"x12"

1 M1-4 24"x24"

← M6-1L 21"x15"

(M)

END
DETOUR M4-8a 24"x18"
EAST M3-2 24"x12"

98 M1-5 24"x24"

(N)

END
DETOUR M4-8a 24"x18"
WEST M3-4 24"x12"

98 M1-5 24"x24"

CMS 1

CHANGEABLE MESSAGE SIGN

NC 98 E US 1 N	FOLLOW DETOUR
-------------------	------------------

CMS 2

CHANGEABLE MESSAGE SIGN

NC 98 W US 1 S	FOLLOW DETOUR
-------------------	------------------

CMS 3

CHANGEABLE MESSAGE SIGN

NC 98 EAST CLOSED	FOLLOW DETOUR
-------------------------	------------------

CMS 4

CHANGEABLE MESSAGE SIGN

NC 98 WEST CLOSED	FOLLOW DETOUR
-------------------------	------------------

X1

R11-2 (48" x 30")

ROAD
CLOSED

TYPE III BARRICADE

X2

R11-2 (48" x 30")

ROAD
CLOSED

DETOUR

M4-10R (48" x 18")
TYPE III BARRICADE

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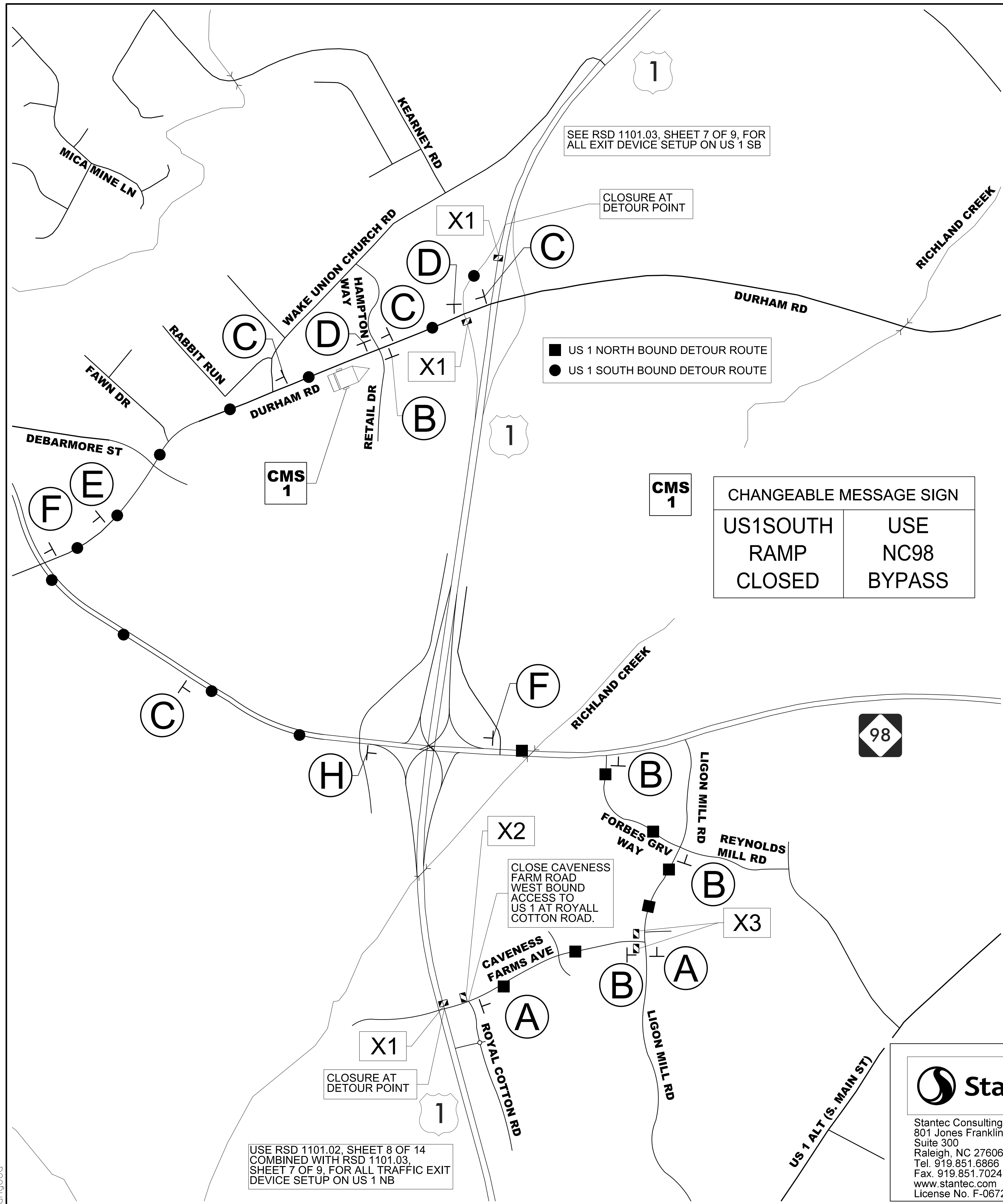
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BRIDGE #911083
NC 98 US 1
DETOUR LEGEND



- (A) **DETOUR NORTH** M4-8 24"x12"
- 1** M1-4 24"x24"
- ↑** M6-3 21"x15"
- (B) **DETOUR NORTH** M4-8 24"x12"
- 1** M1-4 24"x24"
- ←** M6-1L 21"x15"
- (C) **DETOUR SOUTH** M4-8 24"x12"
- 1** M1-4 24"x24"
- ↑** M6-3 21"x15"
- (D) **DETOUR SOUTH** M4-8 24"x12"
- 1** M1-4 24"x24"
- M6-1 21"x15"

(F)

(E)

(C)

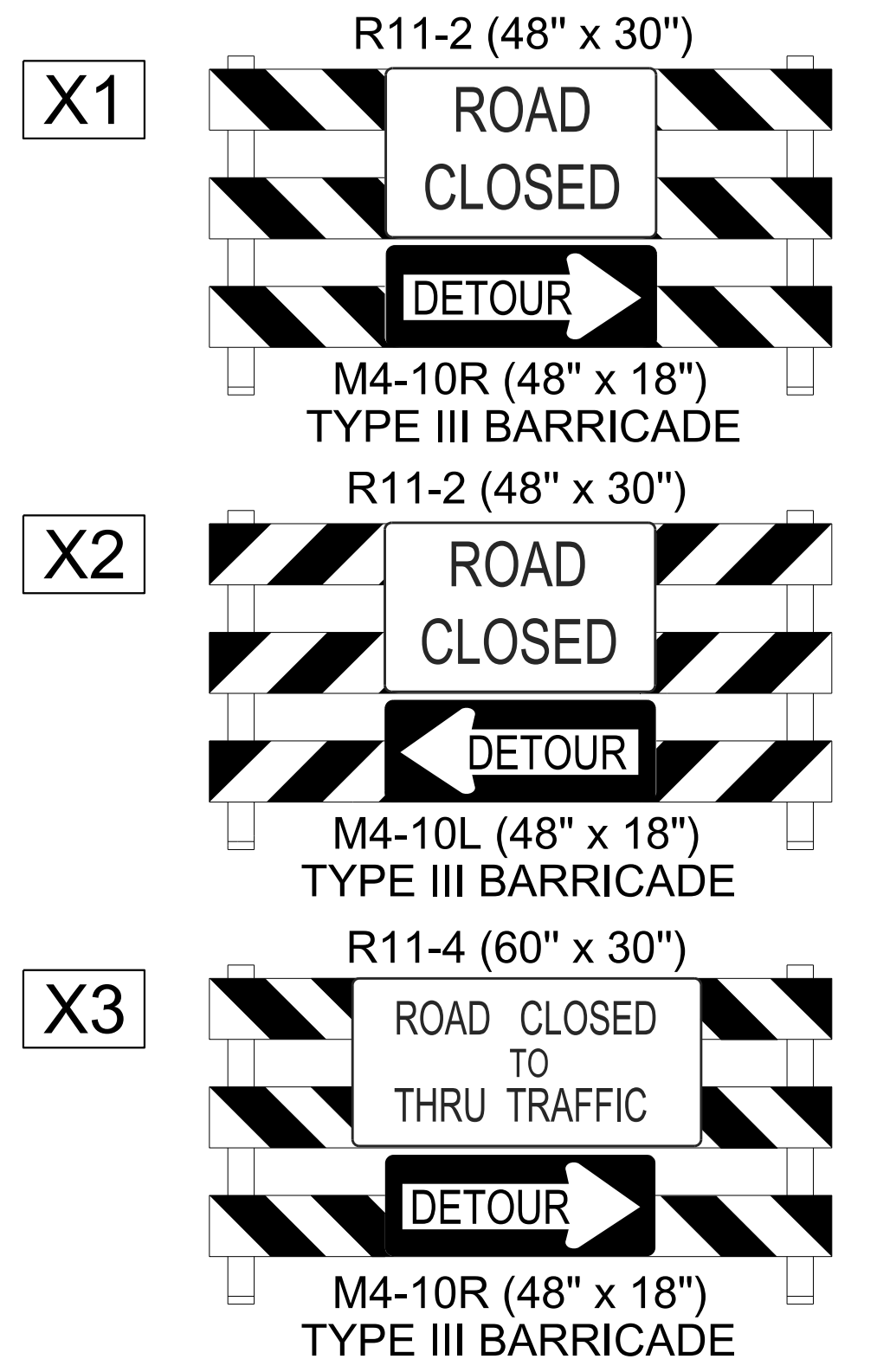
(D)

- (F) **DETOUR SOUTH** M4-8 24"x12"
- 1** M1-4 24"x24"
- ←** M6-1L 21"x15"
- (E) **DETOUR SOUTH** M4-8 24"x12"
- 1** M1-4 24"x24"
- ↙** M5-1 21"x15"

(G)

(H)

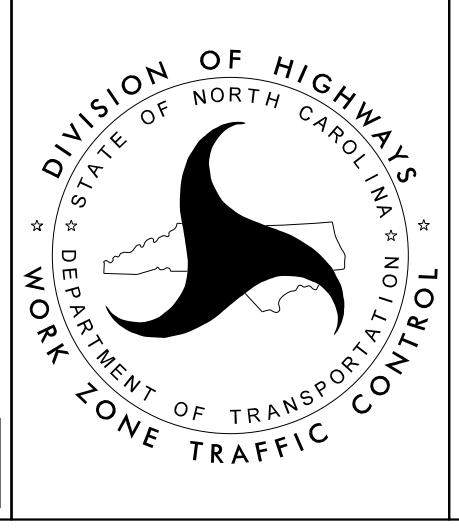
- (G) **END DETOUR NORTH** M4-8a 24"x18"
- 1** M3-1 24"x12"
- 1** M1-4 24"x24"
- (H) **END DETOUR SOUTH** M4-8a 24"x18"
- 1** M3-3 24"x12"
- 1** M1-4 24"x24"



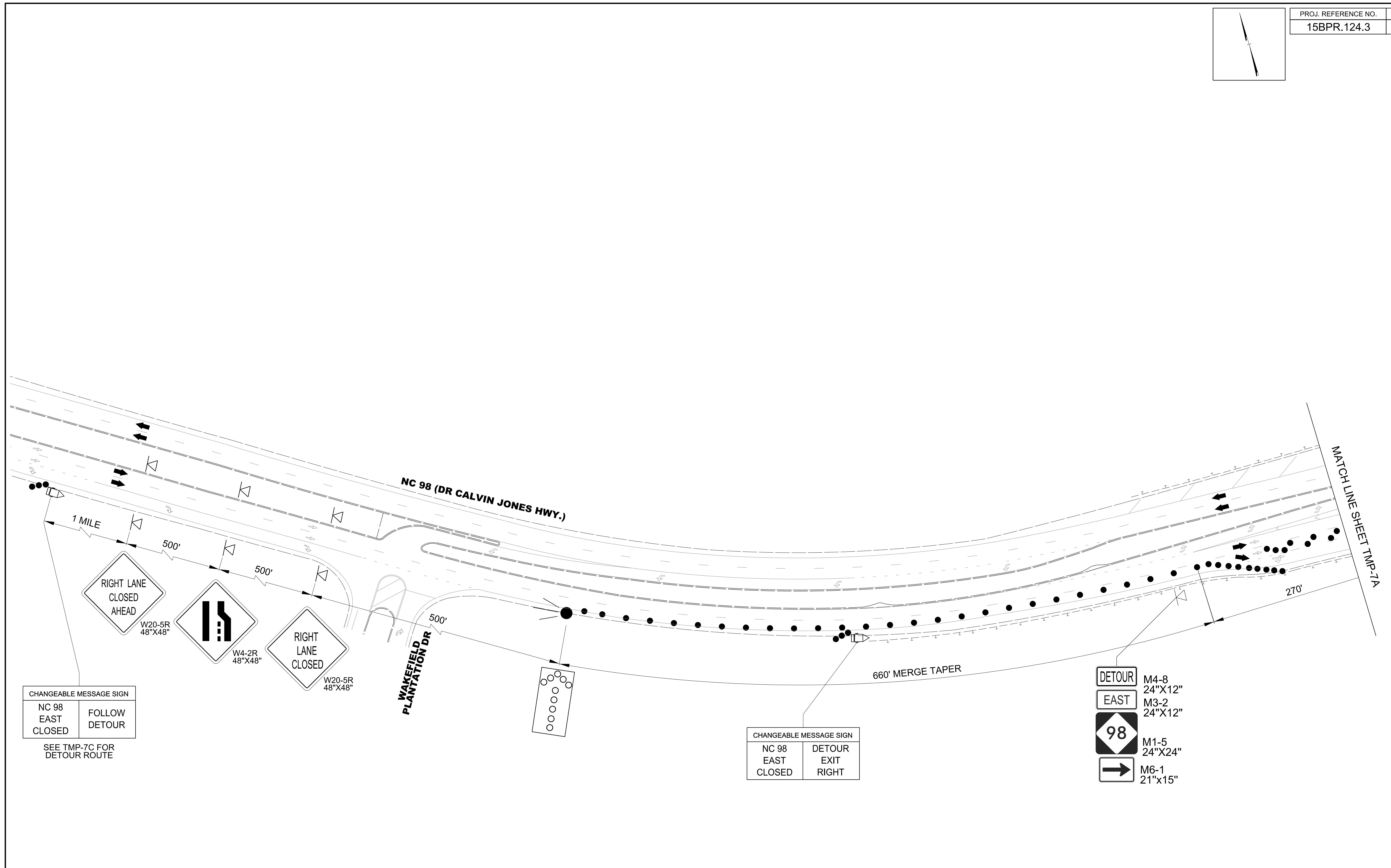
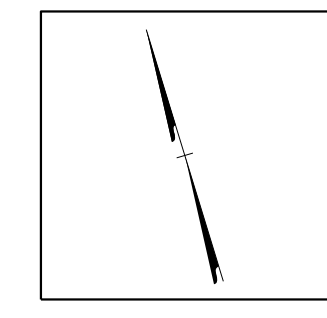
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 43239
 REGINA M. MUNCY
 PROFESSIONAL ENGINEER
 NORTH CAROLINA
 6/8/2023
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BRIDGE #911083
 US 1
 DETOURS



CHANGEABLE MESSAGE SIGN
 NC 98 EAST CLOSED FOLLOW DETOUR
 SEE TMP-7C FOR DETOUR ROUTE

CHANGEABLE MESSAGE SIGN
 NC 98 EAST CLOSED DETOUR EXIT RIGHT

DETOUR M4-8 24\"X12\"
 EAST M3-2 24\"X12\"
 98 M1-5 24\"X24\"
 → M6-1 21\"X15\"

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 U:\Traffic\Transportation Management Plan\TCP\PLAN SHEETS\15BPR.124.3_TMP_07_91084_PHASE_0.dgn
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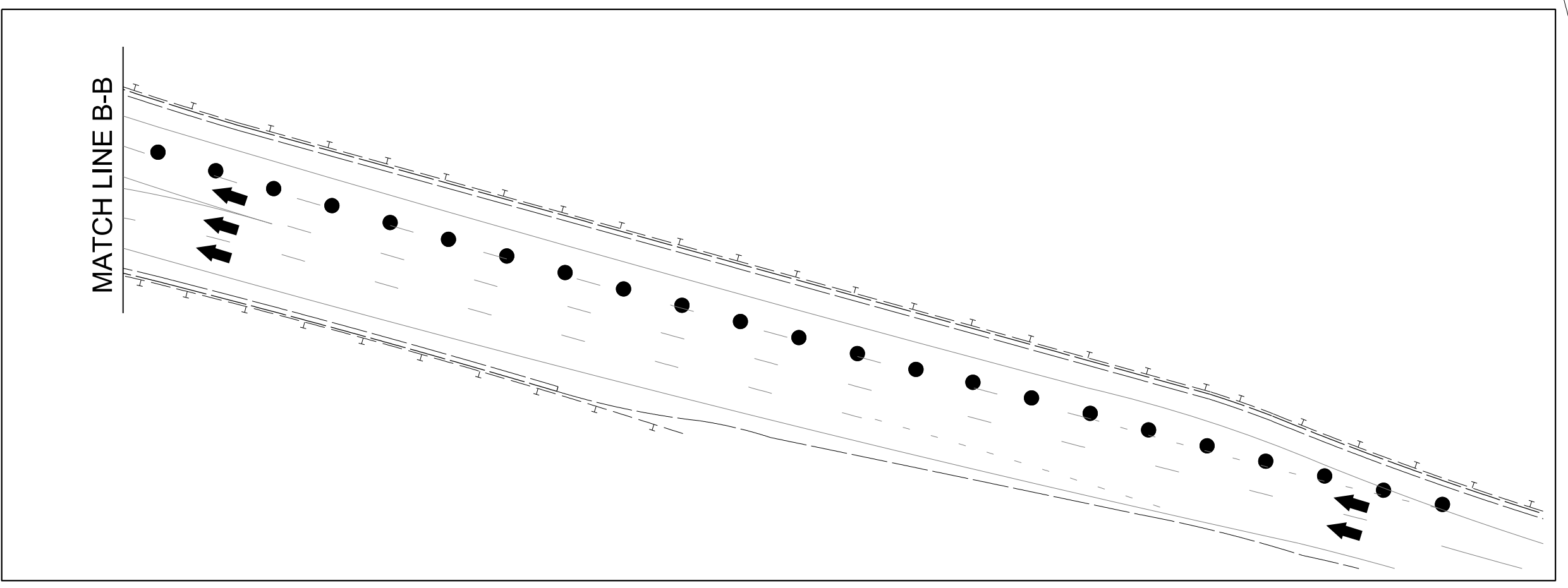
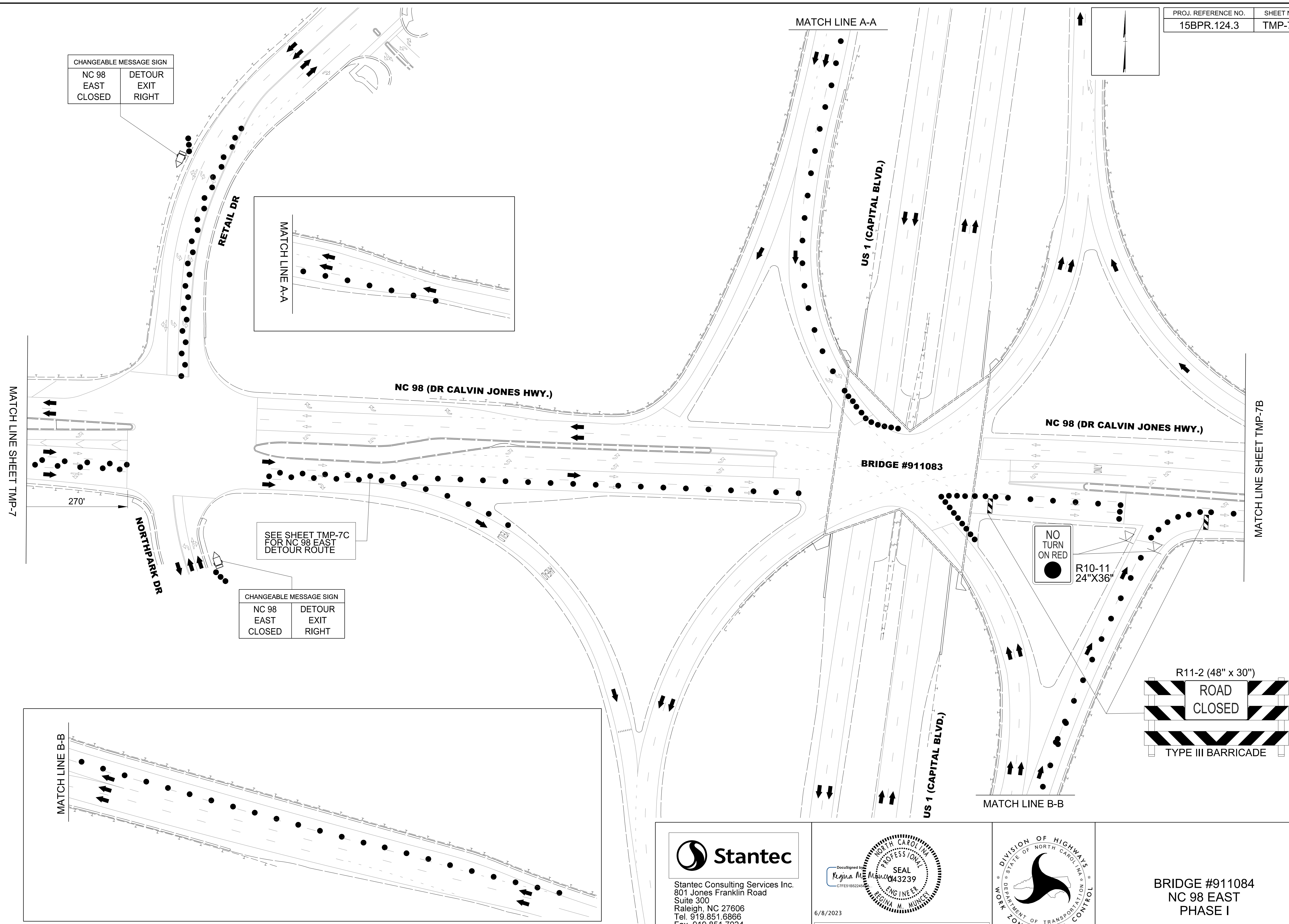
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 DEPARTMENT OF TRANSPORTATION
 WORK ZONE TRAFFIC CONTROL

**BRIDGE #911084
 NC 98 EAST
 PHASE I**

CHANGEABLE MESSAGE SIGN
 NC 98 EAST CLOSED
 DETOUR EXIT RIGHT

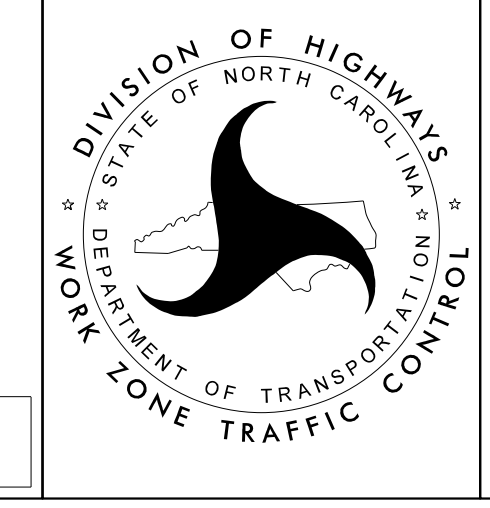


SEE SHEET TMP-7C
 FOR NC 98 EAST
 DETOUR ROUTE

CHANGEABLE MESSAGE SIGN
 NC 98 EAST CLOSED
 DETOUR EXIT RIGHT

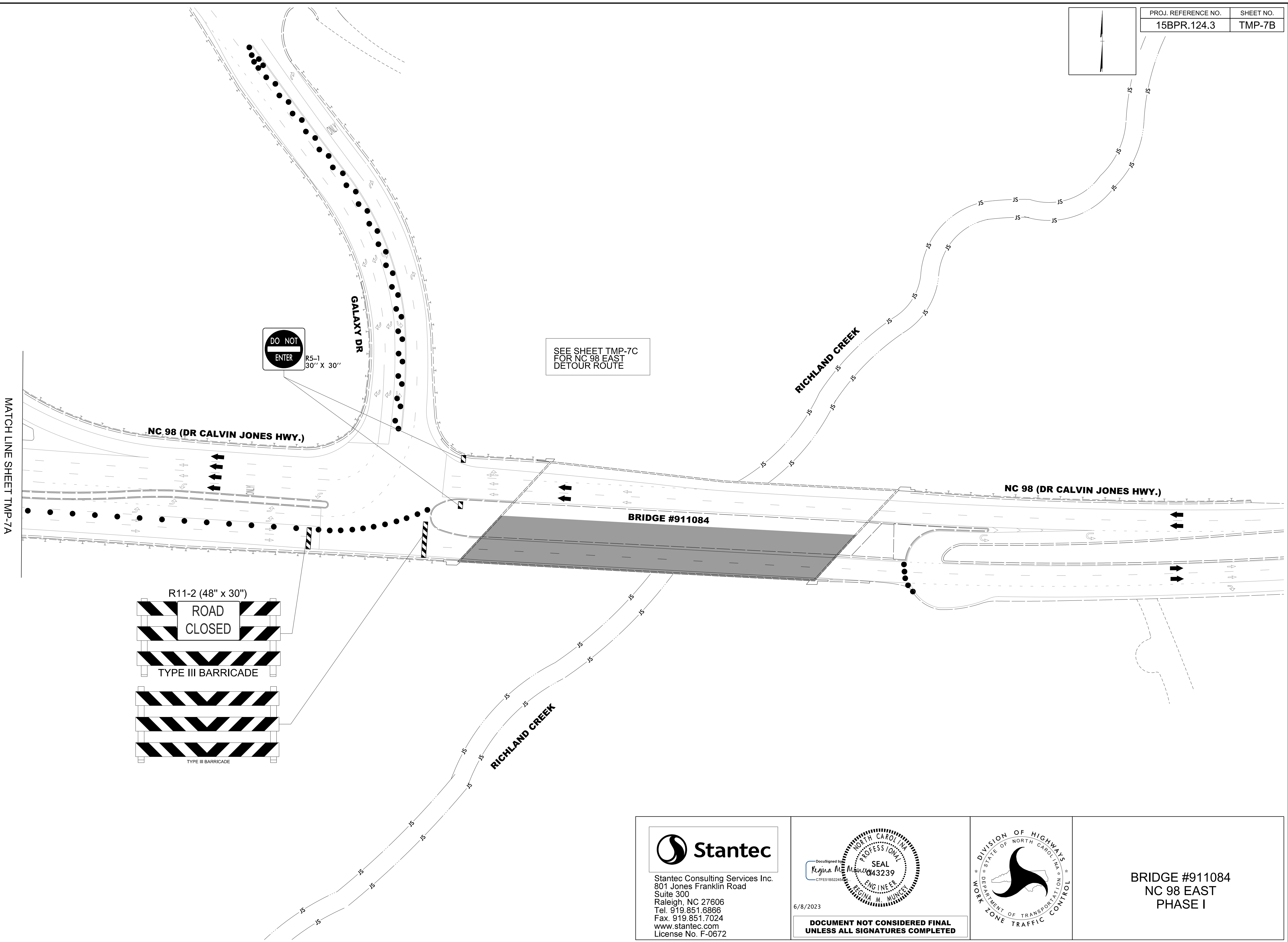
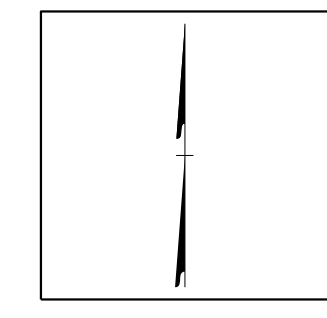
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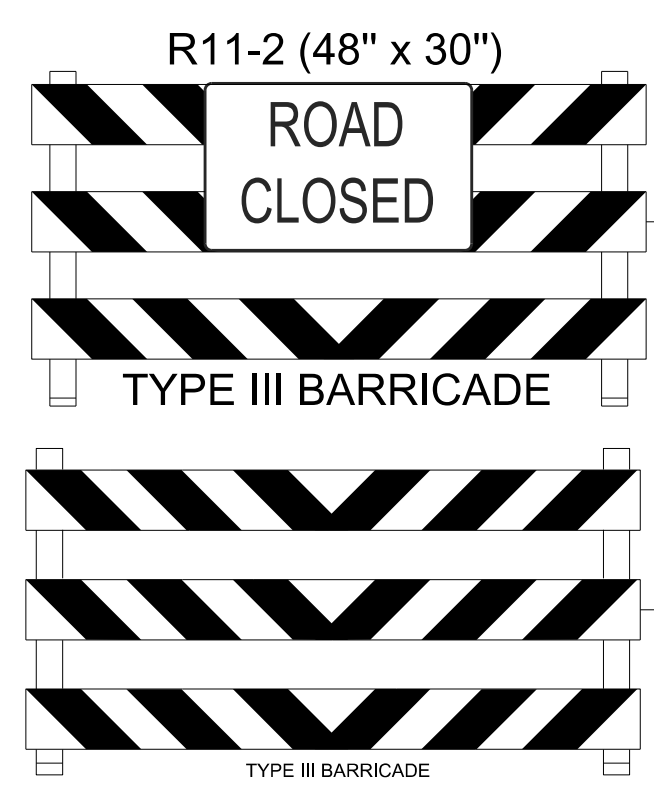
**BRIDGE #911084
 NC 98 EAST
 PHASE I**

PROJ. REFERENCE NO.	SHEET NO.
15BPR.124.3	TMP-7B



SEE SHEET TMP-7C
FOR NC 98 EAST
DETOUR ROUTE

DO NOT
ENTER
R5-1
30" X 30"

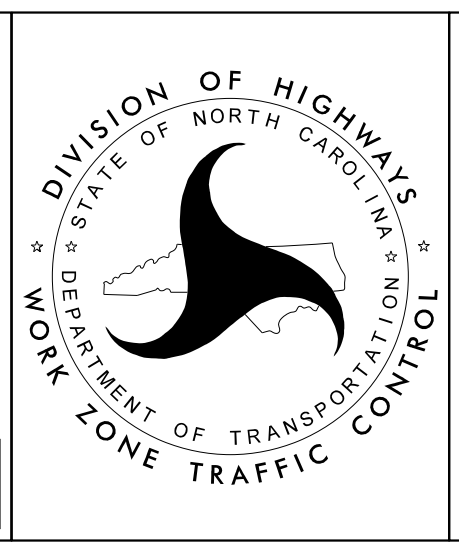


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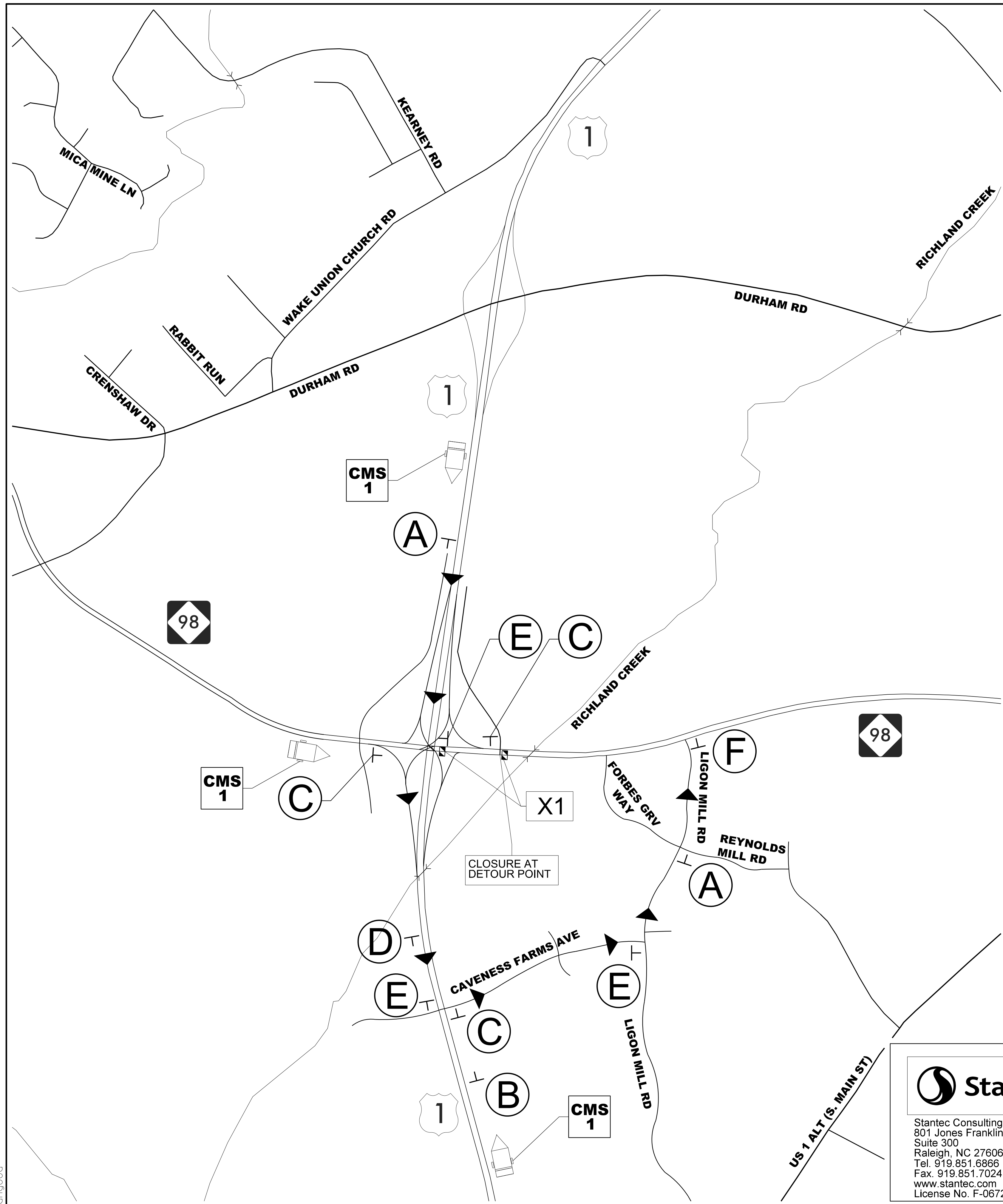
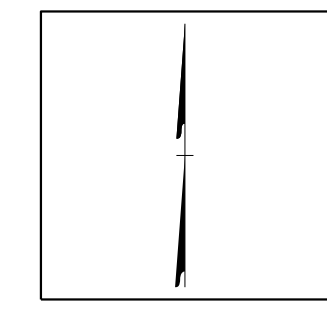
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**BRIDGE #911084
NC 98 EAST
PHASE I**



- Ⓐ

DETOUR	M4-8 24"X12"
EAST	M3-2 24"X12"
98	M1-5 24"X24"
↑	M6-3 21"x15"
- Ⓑ

DETOUR	M4-8 24"X12"
EAST	M3-2 24"X12"
98	M1-5 24"X24"
↗	M5-1R 21"x15"
- Ⓒ

DETOUR	M4-8 24"X12"
EAST	M3-2 24"X12"
98	M1-5 24"X24"
→	M6-1 21"x15"

- Ⓓ

DETOUR	M4-8 24"X12"
EAST	M3-2 24"X12"
98	M1-5 24"X24"
↖	M5-1 21"x15"
- Ⓔ

DETOUR	M4-8 24"X12"
EAST	M3-2 24"X12"
98	M1-5 24"X24"
←	M6-1L 21"x15"
- Ⓕ

END DETOUR	M4-8a 24"X18"
EAST	M3-2 24"X12"
98	M1-5 24"X24"

CMS 1

CHANGEABLE MESSAGE SIGN	
NC 98 EAST CLOSED	FOLLOW DETOUR

X1

R11-2 (48" x 30")

TYPE III BARRICADE

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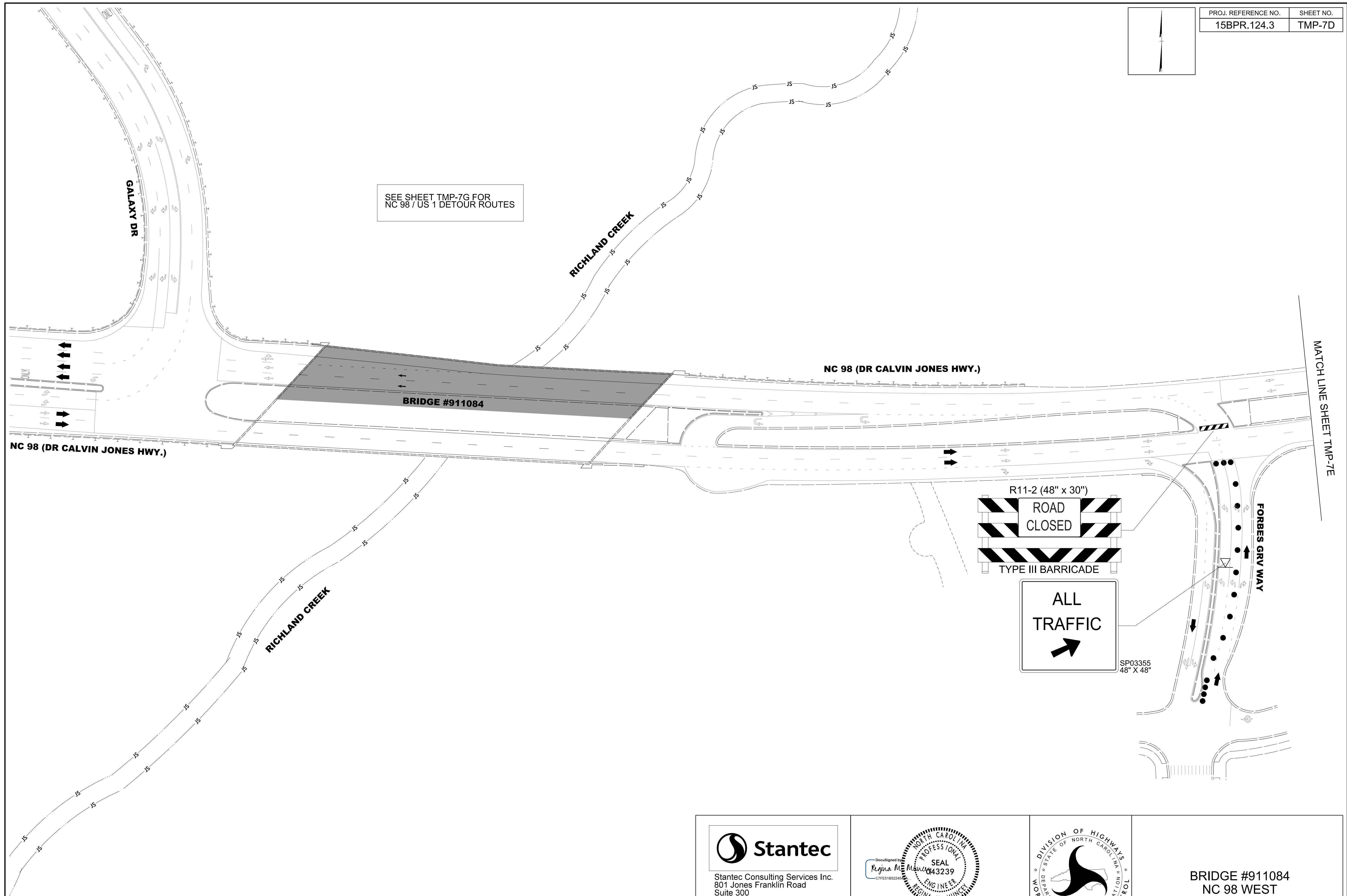
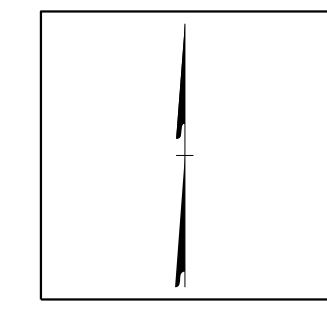
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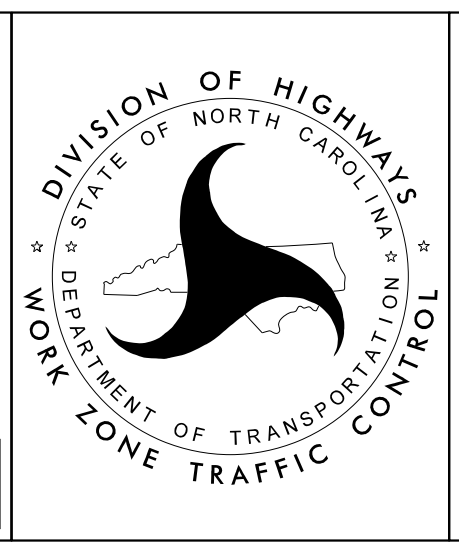
BRIDGE #911084
NC 98 EAST
DETOUR ROUTES



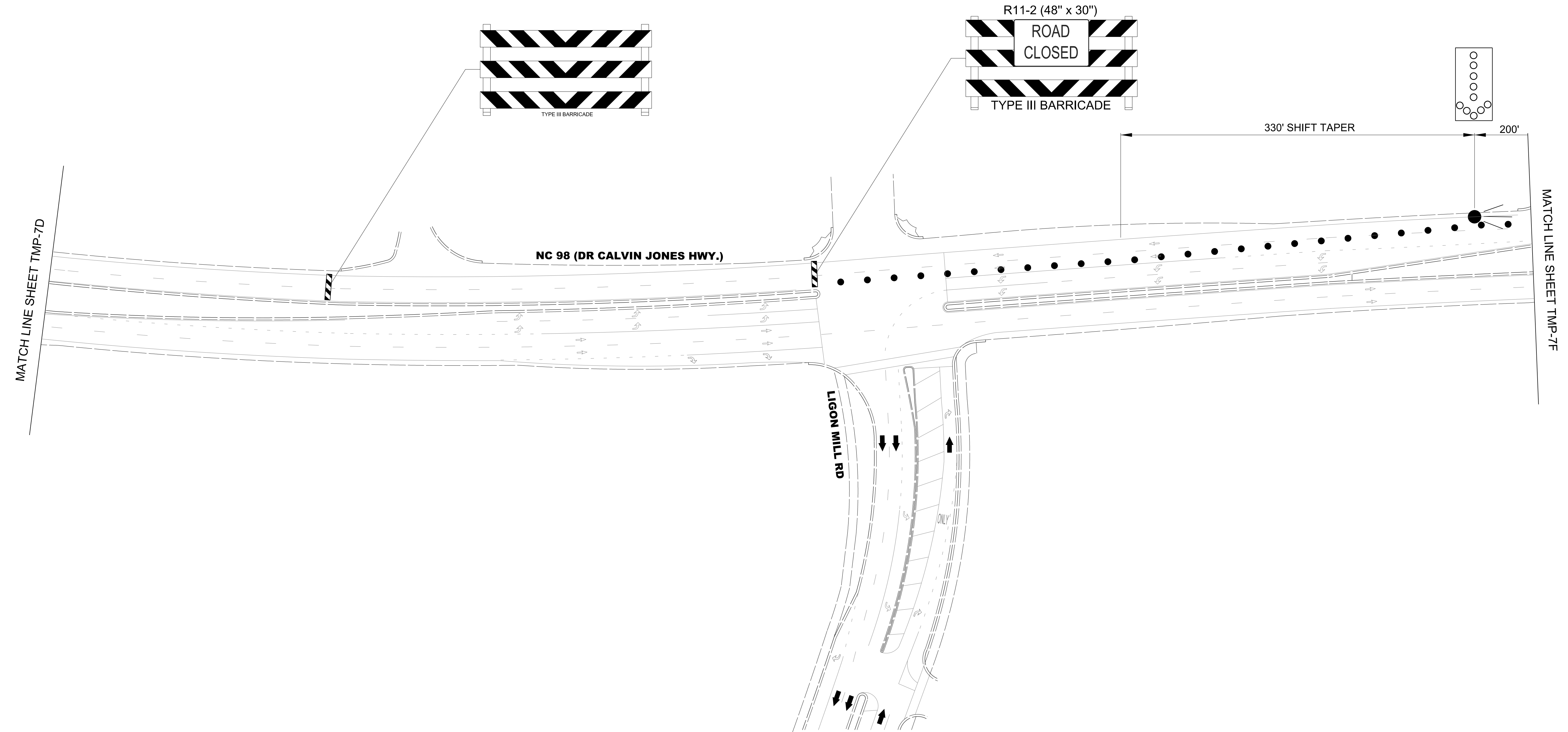
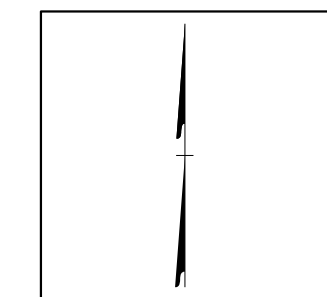
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**BRIDGE #911084
 NC 98 WEST
 PHASE II**

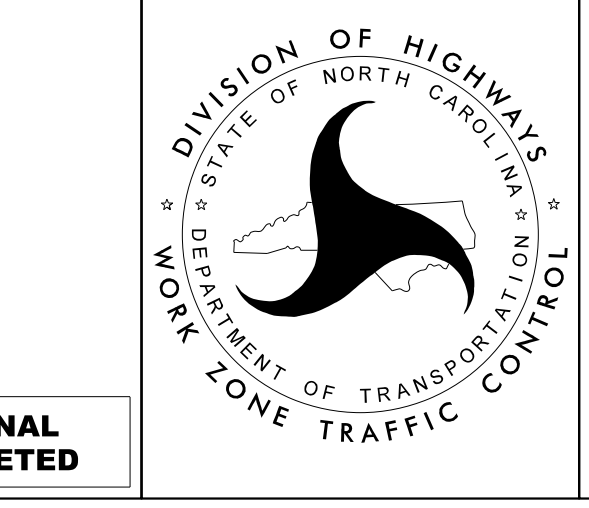


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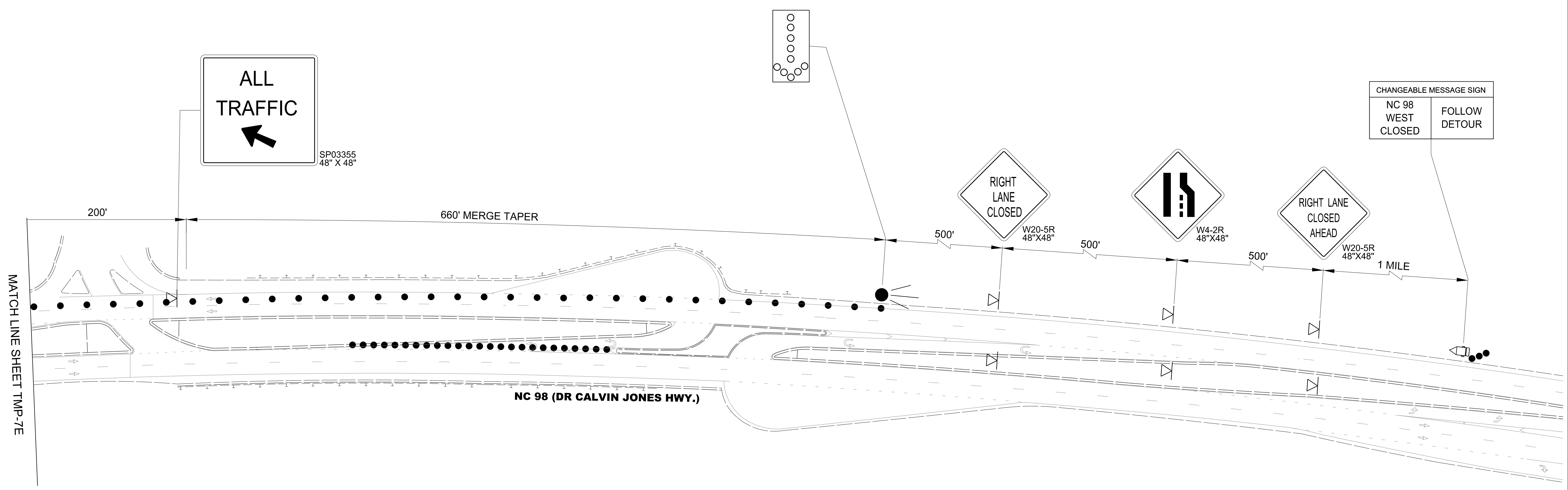
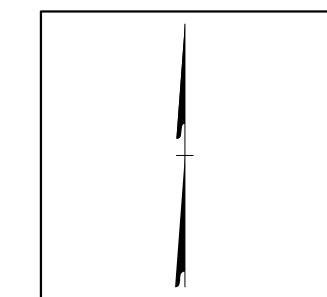
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**BRIDGE #911084
NC 98 WEST
PHASE II**



MATCH LINE SHEET TMP-7E

NC 98 (DR CALVIN JONES HWY.)

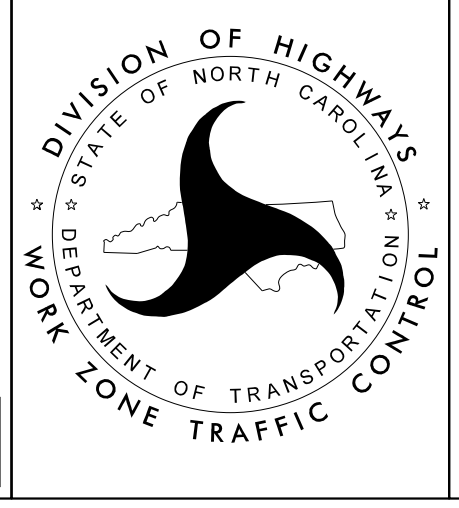
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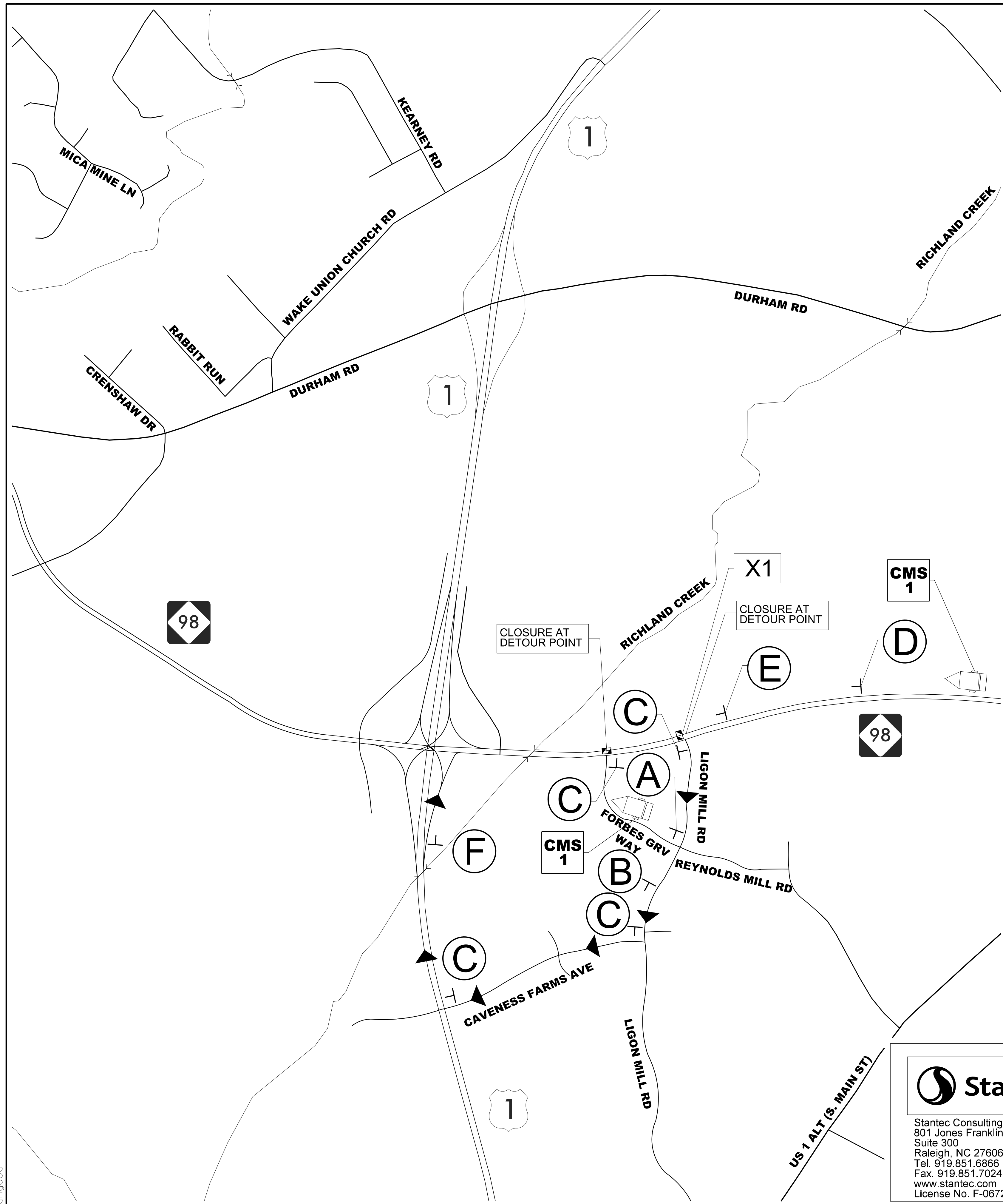
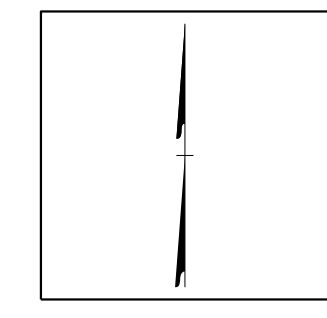
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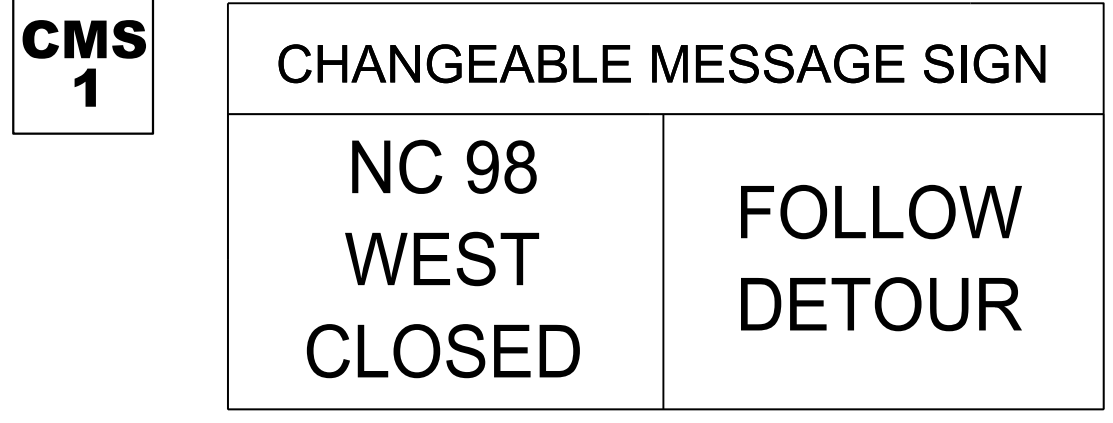
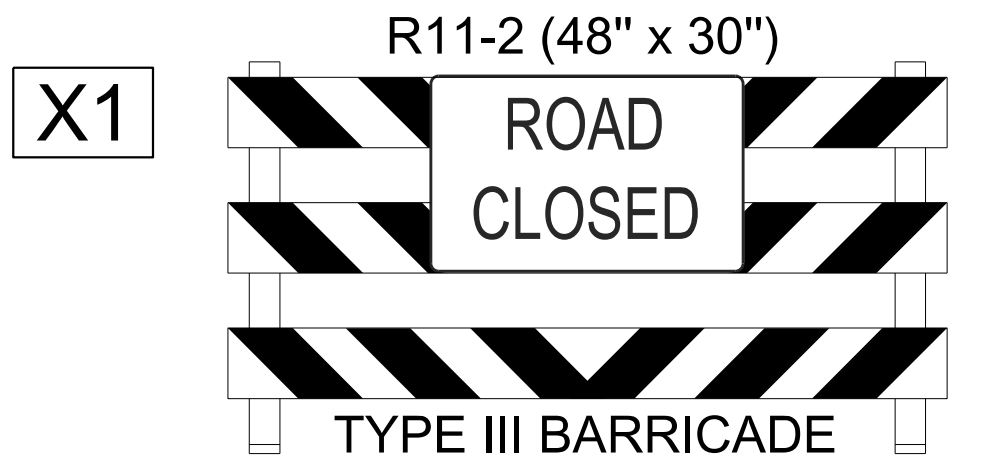


BRIDGE #911084
NC 98 WEST
PHASE II



- (A)**
 - DETOUR M4-8 24"x12"
 - WEST M3-4 24"x12"
 - 98 M1-5 24"x24"
 - ↑ M6-3 21"x15"
- (B)**
 - DETOUR M4-8 24"x12"
 - WEST M3-4 24"x12"
 - 98 M1-5 24"x24"
 - ↗ M5-1R 21"x15"
- (C)**
 - DETOUR M4-8 24"x12"
 - WEST M3-4 24"x12"
 - 98 M1-5 24"x24"
 - M6-1 21"x15"
- (D)**
 - DETOUR M4-8 24"x12"
 - WEST M3-4 24"x12"
 - 98 M1-5 24"x24"
 - ↖ M5-1 21"x15"

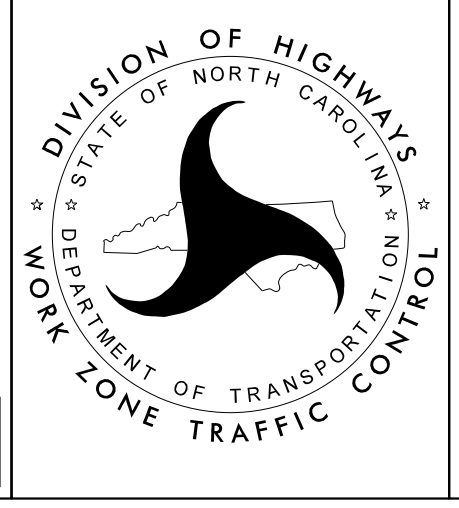
- (E)**
 - DETOUR M4-8 24"x12"
 - WEST M3-4 24"x12"
 - 98 M1-5 24"x24"
 - ← M6-1L 21"x15"
- (F)**
 - END DETOUR M4-8a 24"x18"
 - WEST M3-4 24"x12"
 - 98 M1-5 24"x24"



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BRIDGE #911084
NC 98 WEST
DETOUR ROUTES