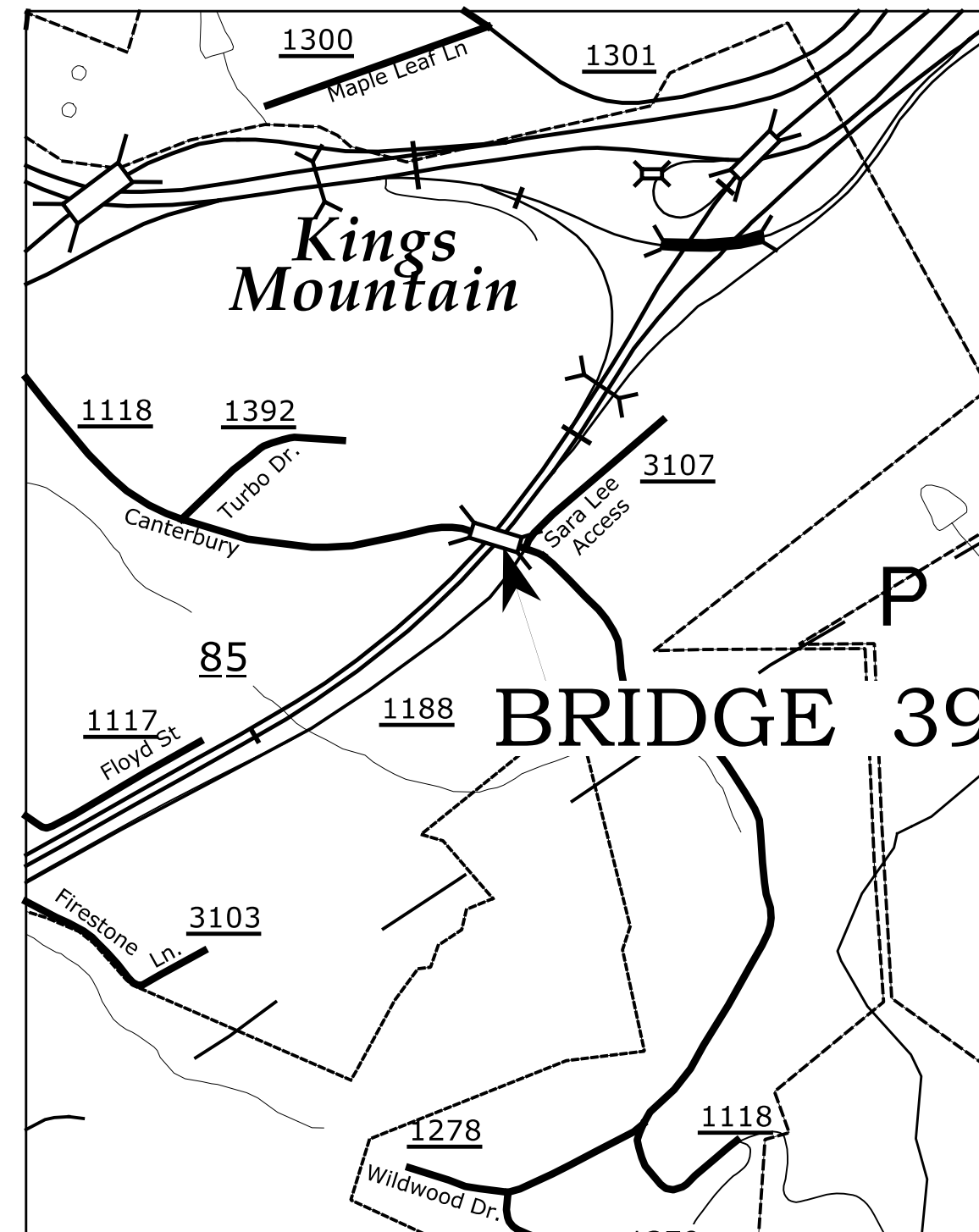
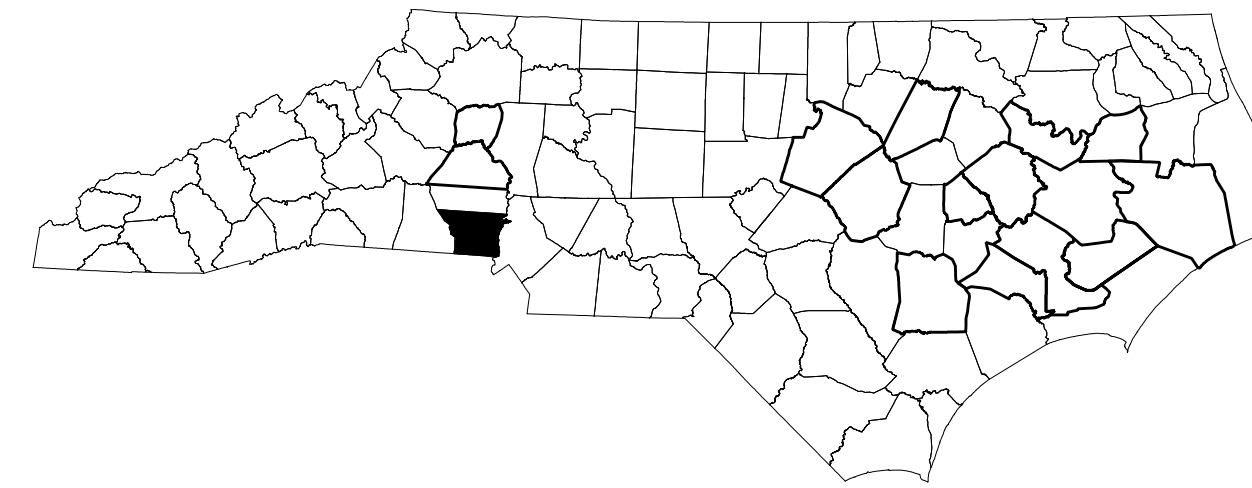


STATE OF NORTH CAROLINA  
DIVISION OF HIGHWAYS

**TRANSPORTATION MANAGEMENT PLAN**

**GASTON COUNTY**



**INDEX OF SHEETS**

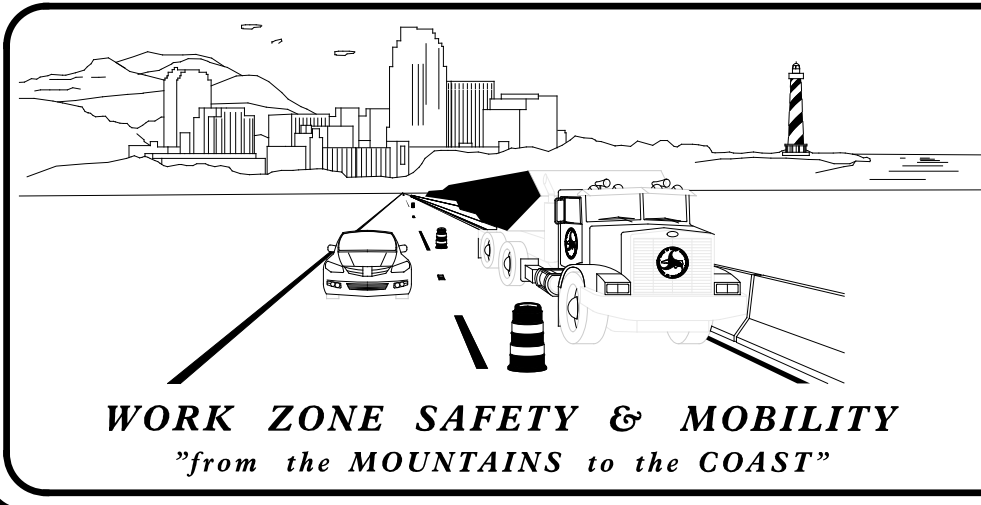
SHEET NO.	TITLE
TMP-1	TITLE SHEET, VICINITY MAP, AND INDEX OF SHEETS
TMP-1A	LIST OF APPLICABLE ROADWAY STANDARD DRAWINGS, AND LEGEND
TMP-1B	GENERAL NOTES AND PHASING
TMP-2	SPECIAL SIGN DESIGN DETAIL
TMP-3	TEMPORARY TRAFFIC CONTROL ROAD CLOSURE AND DETOUR ROUTE

SHEET NO.  
TMP-1

**PROJECT: 15BPR.30**

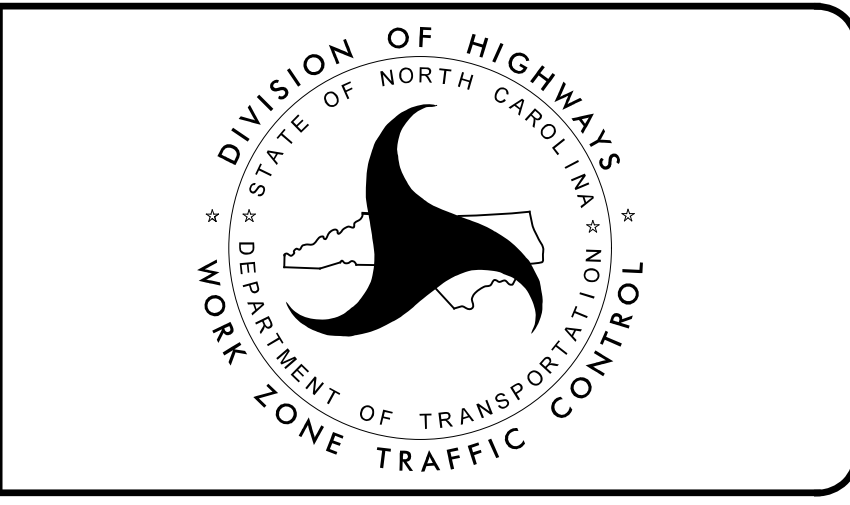
**CONTRACT: C204234**

DOCUMENT NOT CONSIDERED FINAL  
UNLESS ALL SIGNATURES COMPLETED



PLANS PREPARED BY:  
Richard LaShier, PE

NCDOT CONTACTS:  
David Stutts  
PROJECT ENGINEER  
Keith Paschal  
PROJECT DESIGN ENGINEER



**JMT**  
Prepared In the Office of:  
**JOHNSON, MIRMIRAN & THOMPSON, INC.**  
1130 SITUS COURT, SUITE 200, RALEIGH, NC 27606

APPROVED: \_\_\_\_\_  
DATE: \_\_\_\_\_

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\$\$\$\$\$SERIAL\$\$\$\$\$  
\$\$\$\$\$\$\$\$\$\$



## 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:

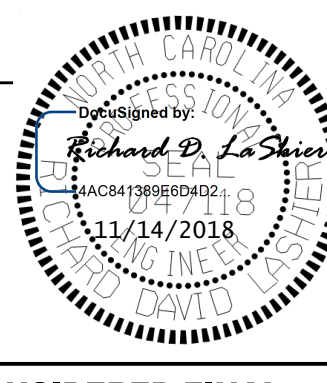

<u>STD. NO.</u>	<u>TITLE</u>
1101.01	WORK ZONE WARNING SIGNS
1101.02	TEMPORARY LANE CLOSURES
1101.03	TEMPORARY ROAD CLOSURES
1101.04	TEMPORARY SHOULDER CLOSURES
1101.05	WORK ZONE VEHICLE ACCESSES
1101.11	TRAFFIC CONTROL DESIGN TABLES
1110.01	STATIONARY WORK ZONE SIGNS
1110.02	PORTABLE WORK ZONE SIGNS
1115.01	FLASHING ARROW BOARDS
1130.01	DRUMS
1135.01	CONES
1145.01	BARRICADES
1150.01	FLAGGING DEVICES
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
1205.12	PAVEMENT MARKINGS - BRIDGES

## LEGEND

### TEMPORARY TRAFFIC CONTROL DEVICES

-  BARRICADE (TYPE III)
-  STATIONARY OR PORTABLE SIGN

\$\$\$SYTIME\$\$\$  
 \$\$\$CDN\$\$\$  
 \$\$\$USERNAME\$\$\$  
 \$\$\$\$\$\$

APPROVED: _____ DATE: _____			<h3>ROADWAY STANDARD DRAWINGS &amp; LEGEND</h3>
<b>DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED</b>			

## GENERAL NOTES AND PHASING:

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.

CHANGES MAY BE REQUIRED WHEN PHYSICAL DIMENSTIONS IN THE PLANS, STANDARD DETAILS, AND ROADWAY STANDARD DRAWINGS 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.

REFER TO THE NCDOT 2018 STANDARD SPECIFICATIONS FOR ROADS AND STRUCTURES FOR ADDITIONAL REQUIREMENTS.

### TEMPORARY LANE CLOSURE DAY AND TIME RESTRICTIONS

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

ROAD NAME	DAY AND TIME RESTRICTIONS
I-85	6:00 A.M. - 8:00 P.M. MONDAY THRU SUNDAY

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

1) FOR UNEXPECTED OCCURENCES THAT CREATE UNUSUALLY HIGH TRAFFIC VOLUMES, AS DIRECTED BY THE ENGINEER.

2) FOR NEW YEAR'S, BETWEEN THE HOURS OF 6:00 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.

3) FOR EASTER, BETWEEN THE HOURS OF 6:00 A.M. THURSDAY AND 8:00 P..M. MONDAY.

4) FOR MEMORIAL DAY, BETWEEN THE HOURS OF 6:00 A.M. FRIDAY TO 8:00 P.M. TUESDAY.

5) FOR INDEPENDENCE DAY, BETWEEN THE HOURS OF 6:00 A.M. THE DAY BEFORE INDEPENDENCE DAY AND 8:00 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 8:00 P.M. THE TUESDAY AFTER INDEPENDENCE DAY.

6) FOR LABOR DAY, BETWEEN THE HOURS OF 6:00 A.M. FRIDAY AND 8:00 P.M. TUESDAY.

7) FOR THANKSGIVING DAY, BETWEEN THE HOURS OF 6:00 A.M. TUESDAY TO 8:00 P.M. MONDAY.

8) FOR CHRISTMAS, BETWEEN THE HOURS OF 6:00 A.M. THE FRIDAY BEFORE THE WEEK OF CHRISTMAS DAY AND 8:00 P.M. THE FOLLOWING TUESDAY AFTER THE WEEK OF CHRISTMAS DAY.

### TEMPORARY ROAD CLOSURE DAY AND TIME RESTRICTIONS

C) TEMPORARY ROAD CLOSURES ARE NOT ALLOWED EXCEPT AT THE SPECIFIC TIMES STATED IN THE PLANS OR DIRECTED BY THE ENGINEER.

### HAULING DAY AND TIME RESTRICTIONS

D) DO NOT CONDUCT SINGLE OR MULTI-VEHICLE HAULING AS FOLLOWS:

ROAD NAME	DAY AND TIME RESTRICTIONS
I-85	6:00 A.M. - 8:00 P.M. MONDAY THRU SUNDAY

E) DO NOT CONDUCT ANY HAULING OPERATIONS AGAINST THE FLOW OF TRAFFIC UNLESS THE HAULING OPERATION IS PROTECTED BY BARRIER OR GUARDRAIL OR AS DIRECTED BY THE ENGINEER.

### TEMPORARY LANE AND SHOULDER CLOSURE REQUIREMENTS

F) REMOVE LANE CLOSURE DEVICES FROM THE LANE WHEN WORK IS NOT BEING PERFORMED BEHIND THE LANE CLOSURE, WHEN A LANE CLOSURE IS NO LONGER NEEDED, OR AS DIRECTED BY THE ENGINEER.

G) WHEN PERSONNEL OR EQUIPMENT ARE LOCATED 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, GUARDRAIL, OR A LANE CLOSURE IS INSTALLED.

H) WHEN PERSONNEL OR EQUIPMENT ARE LOCATED 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.

I) WHEN PERSONNEL AND/OR EQUIPMENT ARE WORKING WITHIN A LANE OF TRAVEL, 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.

J) 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.

### TEMPORARY ROAD CLOSURE REQUIREMENTS

K) FURNISH AND INSTALL ALL TEMPORARY SIGNING AND TEMPORARY TRAFFIC CONTROL DEVICES REQUIRED FOR TEMPORARY ROAD CLOSURES, INCLUDING TEMPORARY ROUTE SIGNS REQUIRED FOR OFF-SITE DETOURS.

L) COVER OR REMOVE ALL TEMPORARY ROAD CLOSURE SIGNS AND DEVICES WHEN A TEMPORARY ROAD CLOSURE IS NOT IN OPERATION. WHEN A DETOUR IS NOT IN OPERATION, COVER OR REMOVE ALL TEMPORARY DETOUR SIGNS.

M) WHEN CLOSING A ROADWAY, INSTALL/UNCOVER DETOUR AND ROAD CLOSURE SIGNS FIRST, AND INSTALL CLOSURE BARRICADES LAST. WHEN RE-OPENING A ROADWAY, REMOVE CLOSURE BARRICADES FIRST, THEN REMOVE/COVER SIGNS.

### TEMPORARY ROAD CLOSURE REQUIREMENTS

K) FURNISH AND INSTALL ALL TEMPORARY SIGNING AND TEMPORARY TRAFFIC CONTROL DEVICES REQUIRED FOR TEMPORARY ROAD CLOSURES, INCLUDING TEMPORARY ROUTE SIGNS REQUIRED FOR OFF-SITE DETOURS.

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M) WHEN CLOSING A ROADWAY, INSTALL/UNCOVER DETOUR AND ROAD CLOSURE SIGNS FIRST, AND INSTALL CLOSURE BARRICADES LAST. WHEN RE-OPENING A ROADWAY, REMOVE CLOSURE BARRICADES FIRST, THEN REMOVE/COVER SIGNS.

### TRAFFIC PATTERN ALTERATIONS

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

### TRAFFIC CONTROL DEVICES

O) ENSURE ALL NECESSARY TRAFFIC CONTROL DEVICES, SIGNS, BARRICADES, MARKINGS, ETC ARE IN PLACE PRIOR TO ALTERING ANY TRAFFIC PATTERN.

P) INSTALL BLACK ON ORANGE "DIP" SIGNS (W8-2) AND/OR "BUMP" SIGNS (W8-1) 500 FT IN ADVANCE OF UNEVEN AREA, AS DIRECTED BY THE ENGINEER.

Q) 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 RADIUS, AND 3 FT OFF THE EDGE OF AN OPEN TRAVELWAY. SPACING OF CHANNELIZING DEVICES SHOWN IN THE PLANS MAY NOT BE TO SCALE. DUE TO THE HORIZONTAL/VERTICAL CURVATURE AND OTHER ITEMS THAT MAY OBSCURE THE CHANNELIZING DEVICES, IT IS THE CONTRACTOR'S RESPONSIBILITY TO ADJUST SPACING IN ORDER TO EFFECTIVELY ACCOMPLISH THE INTENDED CHANNELIZATION.

### PAVEMENT MARKINGS AND MARKERS

R) ALL EXISTING PERMANENT PAVEMENT MARKINGS ARE TO BE REPLACED IN-KIND WHEN CONSTRUCTION IS COMPLETE.

### TEMPORARY CLEAR ZONES

S) AS A GENERAL GUIDELINE, MAINTAIN A 15 FT TEMPORARY WORK AREA CLEAR ZONE FOR THE DURATION OF THIS PROJECT ON ALL ROADWAYS. DUE TO THE VARYING FIELD CONDITIONS, THIS GUIDELINE MAY BE MODIFIED AS FOLLOWS AND/OR AS DIRECTED BY THE ENGINEER:

WHEN LANE CLOSURES ARE NOT IN EFFECT AND WORK IS NOT BEHIND BARRIER OR GUARDRAIL, THE FOLLOWING CLEAR ZONE REQUIREMENTS SHOULD BE MET:

1) MOVE OBSTACLES SUCH AS STOCKPILES AND NON-ACTIVE EQUIPMENT AT LEAST 5' AWAY FROM THE BACK OF BARRIER. IN GENERAL, IF STORING MATERIALS OR EQUIPMENT BEHIND ANY TYPE OF BARRIER, THE DEFLECTION OF THE BARRIER SHOULD BE ACCOUNTED FOR AND ITEMS SHOULD NOT BE STORED IN THAT AREA.

2) EXCAVATIONS OR OTHER IMMOVABLE OBSTRUCTIONS SHALL BE SAFED UP USING METHODS SUCH AS BACK-FILLING, COVERS, DELINEATION, ETC. METHODS MUST BE ACCEPTABLE TO THE ENGINEER.

## PROJECT PHASING

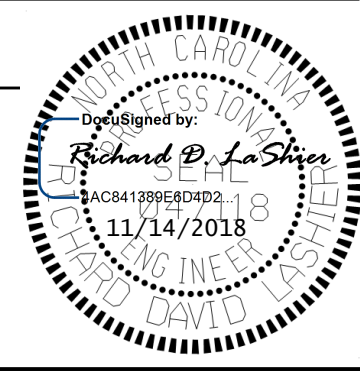
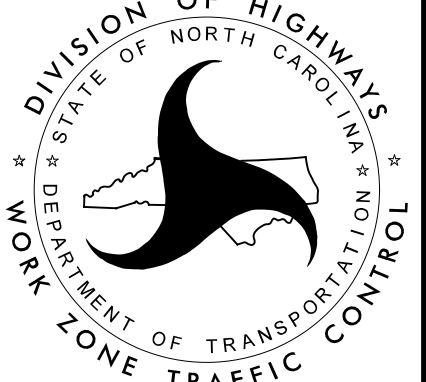
- BRIDGE WILL BE COMPLETELY CLOSED TO ALL TRAFFIC ONLY BETWEEN THE OVERNIGHT HOURS OF 8:00 P.M. TO 6:00 A.M. BEFORE CLOSING AND PERFORMING WORK ON BRIDGE, INSTALL ADVANCE WARNING SIGNING AND BARRICADES IN ACCORDANCE WITH NCDOT RSD.1101.03 AND THE TRAFFIC CONTROL PLANS ON SHEET TMP-3.


THE FOLLOWING PHASES MAY BE COMPLETED IN THE ORDER WHICH THE CONTRACTOR DEEMS APPROPRIATE:

- WHEN PERFORMING WORK ON SHOULDER BENTS (BENTS 1 AND 3) REQUIRING LANE SHIFTS AND/OR CLOSURES ON I-85, INSTALL ADVANCED WORK ZONE WARNING SIGNS IN ACCORDANCE WITH NCDOT RSD.1101.01. INSTALL TRAFFIC CONTROL FOR TEMPORARY RIGHT LANE AND/OR SHOULDER CLOSURES IN ACCORDANCE WITH NCDOT RSD.1101.02.

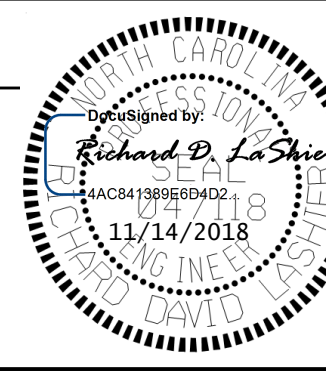

-WHEN PERFORMING WORK ON MEDIAN BENT (BENT 2) REQUIRING LANE SHIFTS AND/OR CLOSURES ON I-85, INSTALL ADVANCED WORK ZONE WARNING SIGNS IN ACCORDANCE WITH NCDOT RSD.1101.01. INSTALL TRAFFIC CONTROL FOR TEMPORARY LEFT LANE AND/OR SHOULDER CLOSURES IN ACCORDANCE WITH NCDOT RSD.1101.02.

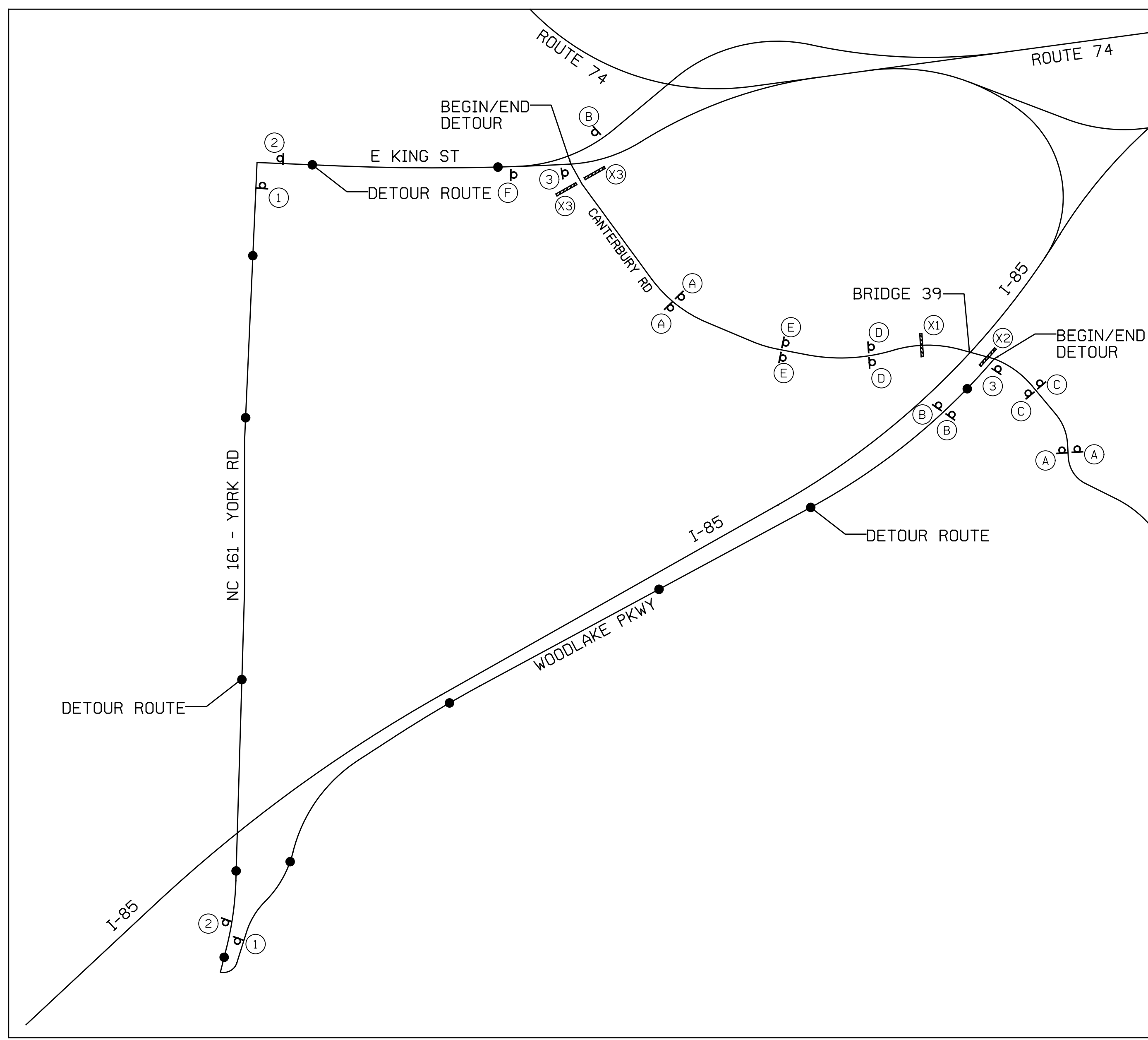
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APPROVED: _____  DATE: _____			<h3 style="margin: 0;">TRANSPORTATION OPERATIONS PLAN</h3>
<b>DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED</b>			

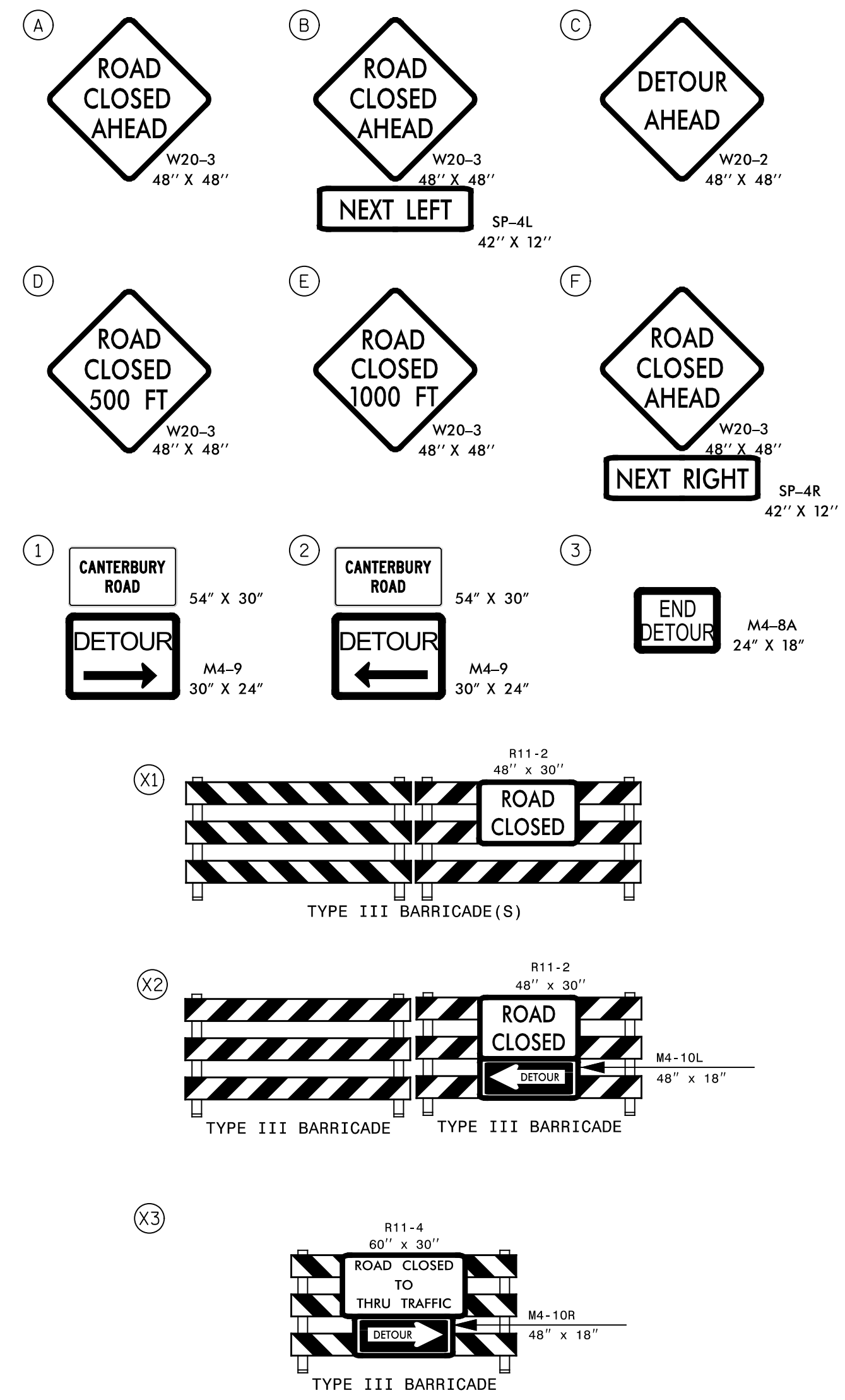
<p>SIGN NUMBER: 1 &amp; 2          TYPE: D                      BACKG COLOR: Fluorescent Orange          QUANTITY: 4                      COPY COLOR: Black</p> <p>SIGN WIDTH: 4' -6"    MAJ. COPY SERIES: Ground          HEIGHT: 2' -6"          TOTAL AREA: 11.3 Sq. Ft. ROUTE MARKERS:</p> <p>BORDER TYPE: RECESSED          RECESS: 0.47"          WIDTH: 0.63"                      ARROW TYPES:          RADII: 1.5"</p> <p>NO. Z BARS:          LENGTH:                              MAT: L: 1.6 mm ALUMINUM</p>	<p>DESIGN BY:                              CHECKED BY:          PROJECT ID:                              DIV:          STD #:                                      DATE: Oct 29, 2018</p>								
<p>LETTER POSITIONS</p> <table border="0"> <tr> <td>C A N T E R B U R Y</td> <td>42.1</td> </tr> <tr> <td>3, 4 3, 8 3, 4 3, 1 3, 1 3, 4 3, 4 3, 4 3, 4 3, 8</td> <td></td> </tr> <tr> <td>R O A D</td> <td>16.6</td> </tr> <tr> <td>3, 4 3, 5 3, 8 3, 4</td> <td></td> </tr> </table> <p>Letter positions are to the lower left corners</p>	C A N T E R B U R Y	42.1	3, 4 3, 8 3, 4 3, 1 3, 1 3, 4 3, 4 3, 4 3, 4 3, 8		R O A D	16.6	3, 4 3, 5 3, 8 3, 4		<div style="text-align: center;">  </div> <p>BORDER          R=1.5"          TH=0.63"    Panel Style: construction_guide.ssi          IN=0.47"    M.U.T.C.D.: 2009 Edition</p>
C A N T E R B U R Y	42.1								
3, 4 3, 8 3, 4 3, 1 3, 1 3, 4 3, 4 3, 4 3, 4 3, 8									
R O A D	16.6								
3, 4 3, 5 3, 8 3, 4									
<p>USE NOTES:</p> <ol style="list-style-type: none"> <li>Legend and border shall be direct applied black non-reflective sheeting.</li> <li>Background shall be NC GRADE B Fluorescent Orange retroreflective sheeting.</li> </ol> <p style="text-align: center;">NORTH CAROLINA D. O. T. SIGN DETAIL</p>									

\$\$\$\$\$SYTIME\$\$\$\$\$  
 \$\$\$DGN\$\$\$\$\$  
 \$\$\$USERNAME\$\$\$\$\$

<p>APPROVED: _____          DATE: _____</p> <div style="text-align: center;">  </div> <p><b>DOCUMENT NOT CONSIDERED FINAL          UNLESS ALL SIGNATURES COMPLETED</b></p>	<div style="text-align: center;">  </div>	<p style="text-align: center; font-weight: bold;">SPECIAL SIGN DESIGN</p>
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### SIGN LEGEND



\$\$\$\$\$SYTIME\$\$\$\$\$  
 \$\$\$DDGN\$\$\$\$\$  
 \$\$\$USERNAME\$\$\$\$\$

APPROVED: _____			<b>TEMPORARY TRAFFIC CONTROL PLAN          ROAD CLOSURE AND          DETOUR ROUTE</b>
DATE: _____			
<b>DOCUMENT NOT CONSIDERED FINAL          UNLESS ALL SIGNATURES COMPLETED</b>			