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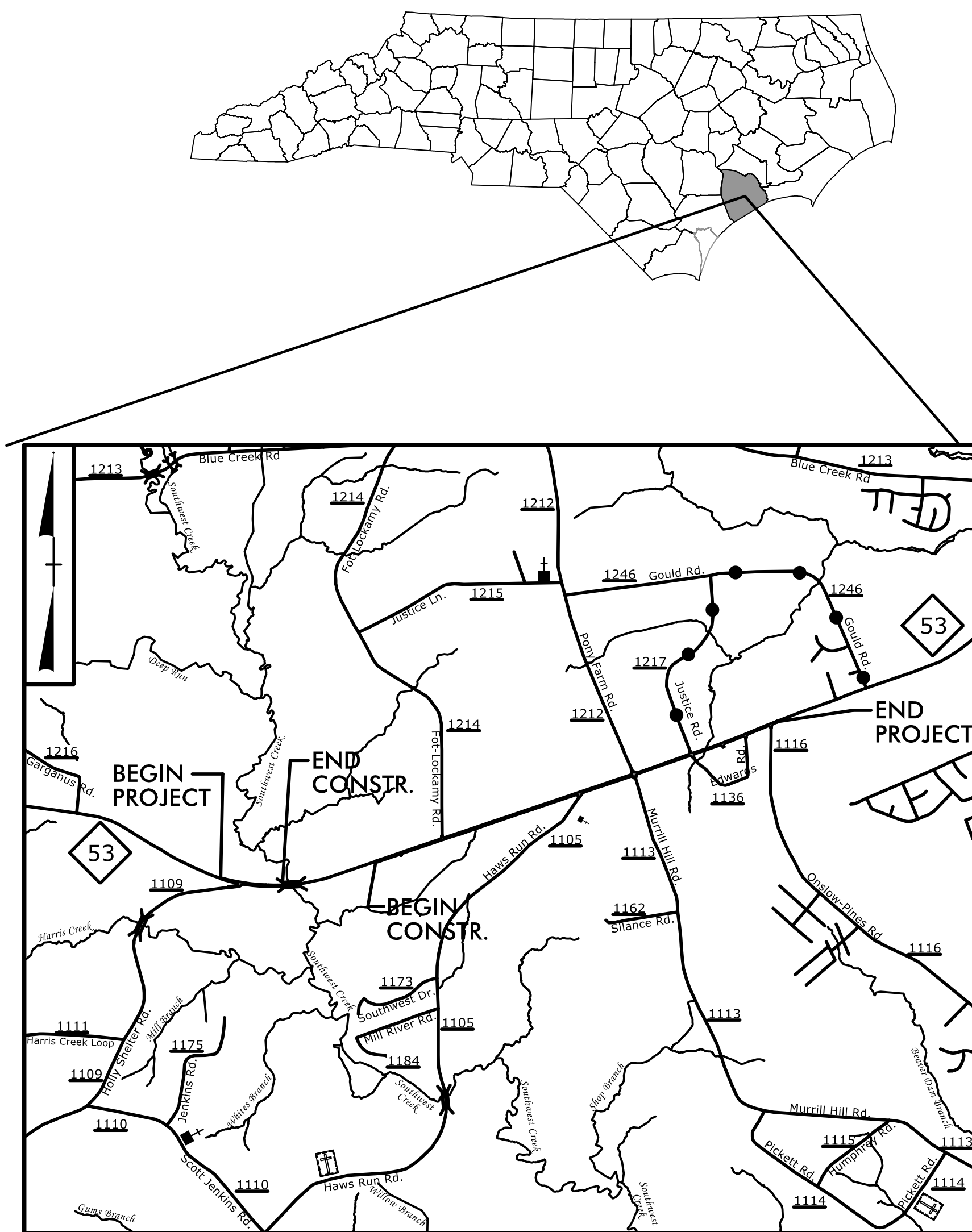
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STATE OF NORTH CAROLINA  
DIVISION OF HIGHWAYS

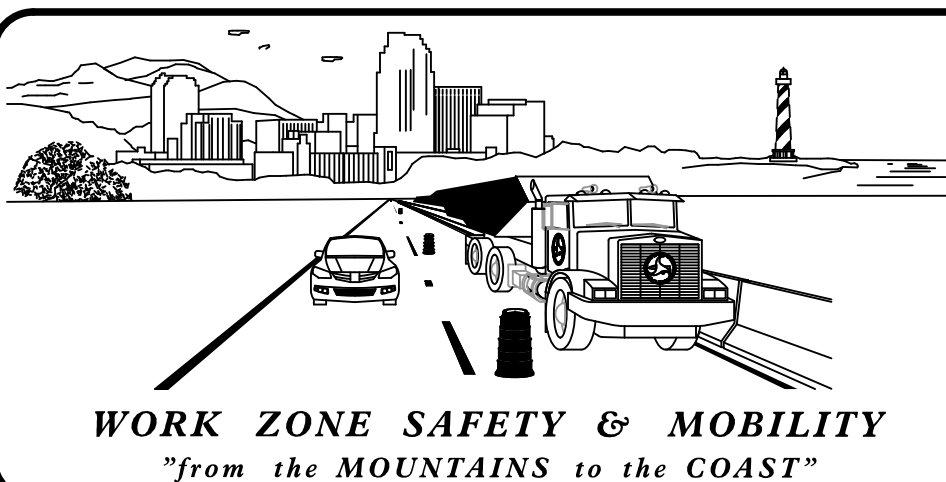
TRANSPORTATION MANAGEMENT PLAN

ONSLOW COUNTY



LOCATION: IMPROVEMENTS ALONG NC 53 FROM WEST OF SR 1109 (HOLLY SHELTER RD.) TO WEST OF BRIDGE OVER SOUTHWEST CREEK AND WEST OF SR 1214 (FOY-LOCKAMY RD) TO EAST OF SR 1116 (ONSLOW PINES RD.)

TYPE OF WORK: GRADING, PAVING, DRAINAGE & CULVERT



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) 773-2800 FAX: (919) 771-2745

J. S. BOURNE, P.E. STATE TRAFFIC MANAGEMENT ENGINEER  
J. S. KITE, P.E. EASTERN TRAFFIC CONTROL PROJECT ENGINEER  
D. PARKER TRAFFIC CONTROL PROJECT DESIGN ENGINEER



INDEX OF SHEETS

SHEET NO.	TITLE
TMP-1	TITLE SHEET, VICINITY MAP AND INDEX OF SHEETS
TMP-1A	LIST OF APPLICABLE ROADWAY STANDARD DRAWINGS, LEGEND, AND TEMPORARY PAVEMENT MARKING
TMP-1B	TRANSPORTATION OPERATIONS PLAN: GENERAL NOTES
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TMP-2B	-L- DETOUR DETAIL - FROM -Y6- TO GOULD RD
TMP-2C	SIGN DESIGN
TMP-3	PHASING & LOCAL NOTES
TMP-4	AREA 1, PHASE I DETAILS
TMP-5	AREA 1, PHASE II DETAILS
TMP-6 THRU TMP-11	AREA 2, PHASE I DETAILS

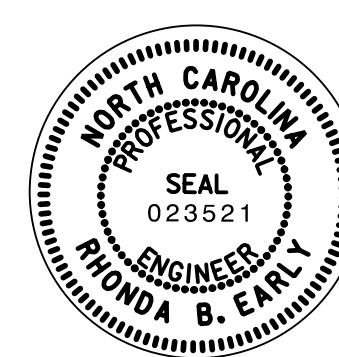
**HNTB** HNTB NORTH CAROLINA, P.C.  
343 E. Six Forks Road, Suite 200  
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R. B. EARLY, PE TRAFFIC CONTROL PROJECT ENGINEER  
R. B. EARLY, PE TRAFFIC CONTROL PROJECT DESIGN ENGINEER  
J. A. PHILLIPS TRAFFIC CONTROL DESIGN ENGINEER

DOCUMENT NOT CONSIDERED FINAL  
UNLESS ALL SIGNATURES COMPLETED

APPROVED: Rhonda B. Early  
DATE: 7/25/2016

SEAL



REVISIONS

4/29/03 RM  
HNTB  
QA/QC STAGE:  
REVIEW:  
CONCUR:  
REVISE:  
VERIFY:

SHEET NO.

TMP-1

R-5023B

TIP PROJECT:

# 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 2012 ARE APPLICABLE TO THIS PROJECT AND BY REFERENCE HEREBY ARE CONSIDERED A PART OF THESE PLANS:

STD. NO.	TITLE
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
1130.01	DRUM
1135.01	CONES
1145.01	BARRICADES
1150.01	FLAGGING DEVICES
1180.01	SKINNY-DRUM
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
1205.08	PAVEMENT MARKINGS - SYMBOLS AND WORD MESSAGES
1205.09	PAVEMENT MARKINGS - PAINTED ISLANDS
1205.10	PAVEMENT MARKINGS - SCHOOL AREAS
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

# LEGEND

## GENERAL

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

- WORK AREA
- REMOVAL
- WEDGE / WIDEN

## SIGNALS

- EXISTING
- PROPOSED
- TEMPORARY

## 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

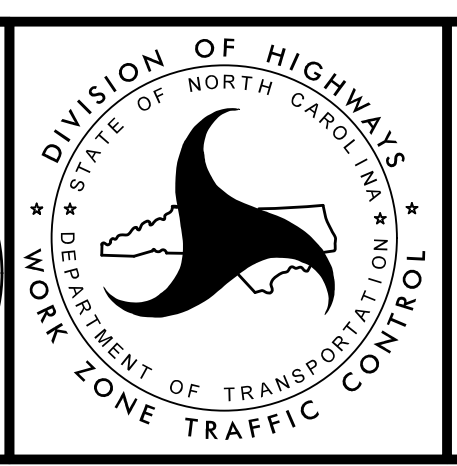
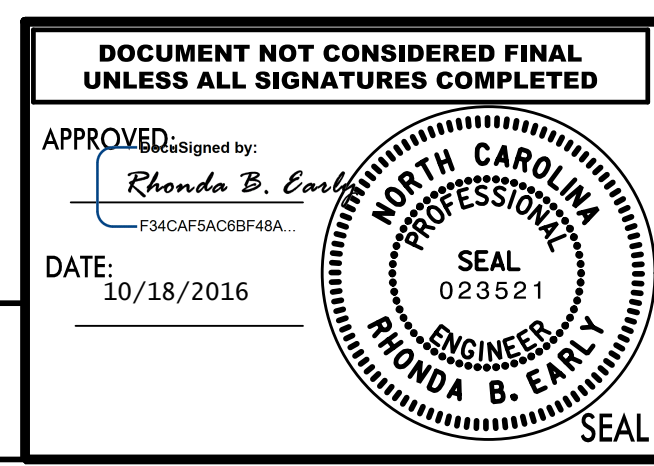
## PAVEMENT MARKING SYMBOLS

- PAVEMENT MARKING SYMBOLS

## TEMPORARY PAVEMENT MARKING

SYMBOL	DESCRIPTION	PAY ITEM	SYMBOL	DESCRIPTION	PAY ITEM
<u>PAVEMENT MARKING LINES</u>			<u>PAVEMENT MARKING SYMBOLS</u>		
		PAINT (4")			PAINT
P8	2'/6' WHITE MINISKIP		QA	LEFT TURN ARROW	
PA	WHITE EDGELINE		QC	STRAIGHT ARROW	
PD	3FT - 9FT/SP WHITE MINISKIP		QE	STRAIGHT/RIGHT ARROW	
PE	WHITE LANE LINE		<u>PAVEMENT CHARACTERS</u>		
PF	10' YELLOW SKIP		QI	ALPHANUMERIC CHARACTERS	PAINT
PH	YELLOW SINGLE CENTER				
PI	DOUBLE YELLOW CENTERLINE				
		PAINT (12")			
PV	YELLOW DIAGONAL				
		PAINT (24")			
P2	WHITE STOP BAR				
P3	WHITE CROSSWALK LINE				
<u>PAVEMENT MARKERS</u>					
		TEMPORARY RAISED			
MH	YELLOW & YELLOW				
MI	CRYSTAL & RED				

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TRANSPORTATION  
 MANAGEMENT PLAN  
  
**ROADWAY STANDARD  
 DRAWINGS & LEGENDS**  
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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 UNDESIRE 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:

<u>ROAD NAME</u>	<u>DAY AND TIME RESTRICTIONS</u>
NC 53 (BURGAW HIGHWAY)	MONDAY THRU FRIDAY 6:00 AM - 8:30 AM & 4:00 PM - 6:00 PM

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

#### ROAD NAME

NC 53 (BURGAW HIGHWAY)

#### HOLIDAY

- FOR ANY UNEXPECTED OCCURRENCE THAT CREATES UNUSUALLY HIGH TRAFFIC VOLUMES, AS DIRECTED BY THE ENGINEER.
- FOR NEW YEAR'S, BETWEEN THE HOURS OF 6:00 A.M. DECEMBER 31ST TO 6:00 P.M. JANUARY 2ND. IF NEW YEAR'S DAY IS ON A FRIDAY, SATURDAY, SUNDAY OR MONDAY THEN UNTIL 6:00 P.M. THE FOLLOWING TUESDAY.
- FOR EASTER, BETWEEN THE HOURS OF 6:00 A.M. THURSDAY AND 6:00 P.M. MONDAY.
- FOR MEMORIAL DAY, BETWEEN THE HOURS OF 6:00 A.M. FRIDAY TO 6:00 P.M. TUESDAY.
- FOR INDEPENDENCE DAY, BETWEEN THE HOURS OF 6:00 A.M. THE DAY BEFORE INDEPENDENCE DAY AND 6:00 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 6:00 P.M. THE TUESDAY AFTER INDEPENDENCE DAY.
- FOR LABOR DAY, BETWEEN THE HOURS OF 6:00 A.M. FRIDAY TO 6:00 P.M. TUESDAY.
- FOR THANKSGIVING DAY, BETWEEN THE HOURS OF 6:00 A.M. TUESDAY TO 6:00 P.M. MONDAY.
- FOR CHRISTMAS, BETWEEN THE HOURS OF 6:00 A.M. THE FRIDAY BEFORE THE WEEK OF CHRISTMAS DAY AND 6:00 P.M. THE FOLLOWING TUESDAY AFTER THE WEEK OF CHRISTMAS.

C) DO NOT STOP TRAFFIC AS FOLLOWS:

<u>ROAD NAME</u>	<u>DAY AND TIME RESTRICTIONS</u>	<u>DURATION AND OPERATION</u>
NC 53 (BURGAW HWY)	MONDAY-FRIDAY 6:00 AM - 8:30 AM & 4:00 PM - 6:00 PM	15 MINUTE INCREMENTS FOR TRAFFIC SHIFTS

### 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 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.
- 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.
- DO NOT INSTALL MORE THAN ONE LANE CLOSURE, IN ANY ONE DIRECTION, ON -L- (NC 53).

### PAVEMENT EDGE DROP OFF REQUIREMENTS

- 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.
- 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.

### TRAFFIC PATTERN ALTERATIONS

- NOTIFY THE ENGINEER TWENTY ONE (21) 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.
- 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) 350 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.

### PAVEMENT MARKINGS AND MARKERS

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

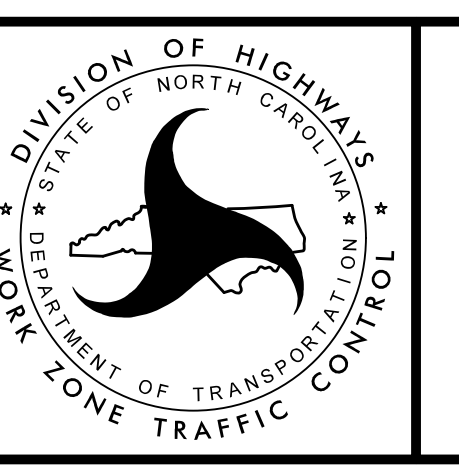
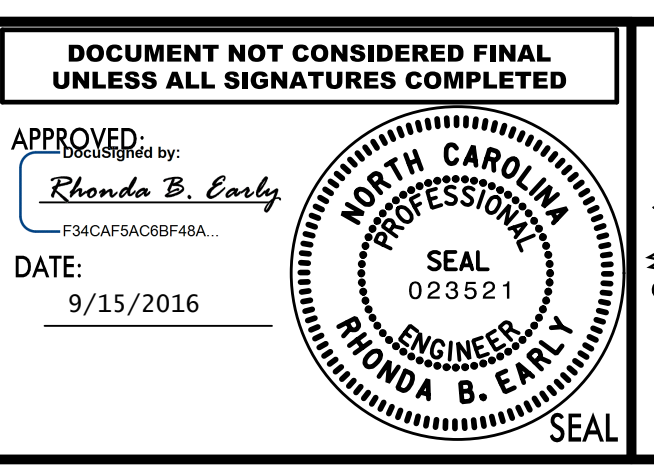
<u>ROAD NAME</u>	<u>MARKING</u>	<u>MARKER</u>
ALL ROADS	PAINT	TEMPORARY RAISED

- PLACE TWO 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.
- 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.

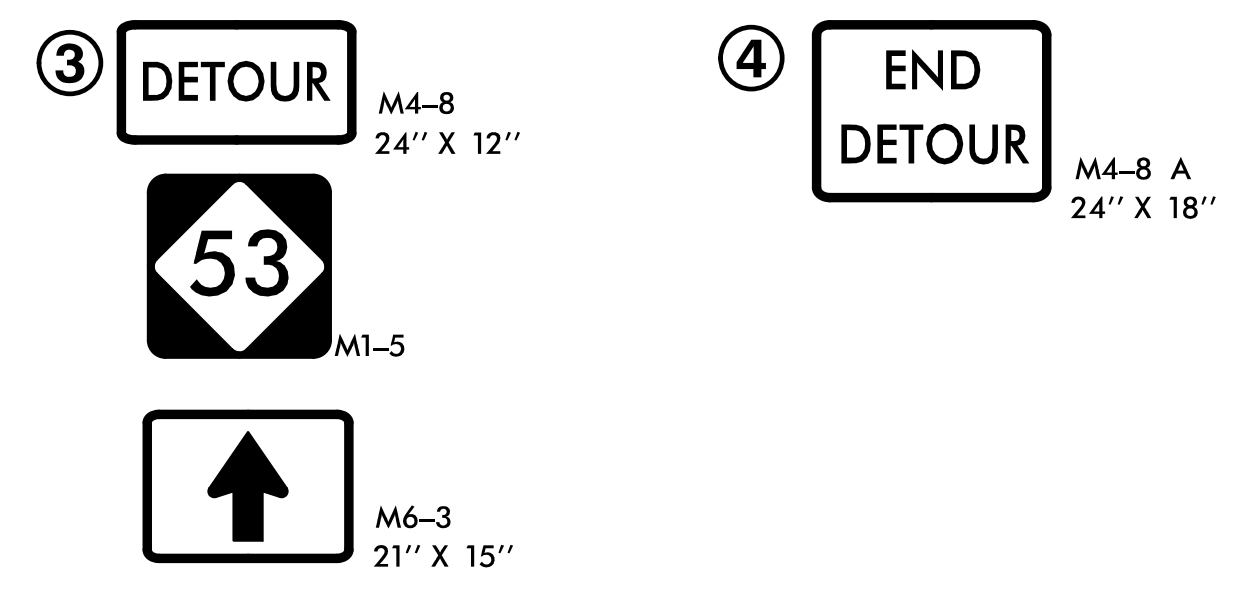
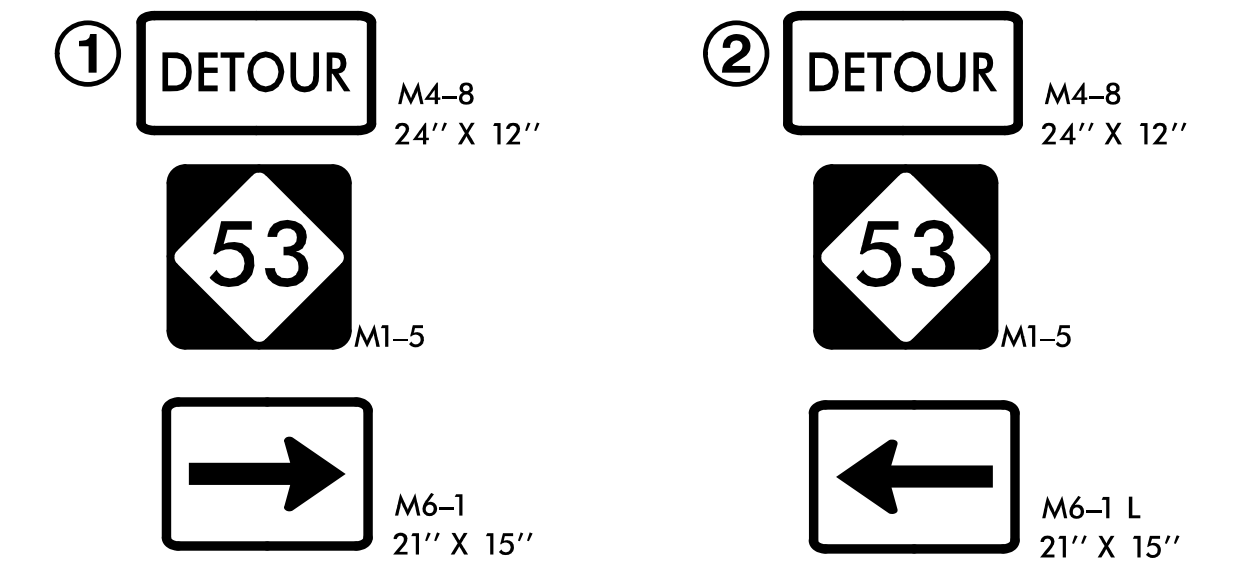
### MISCELLANEOUS

- LAW ENFORCEMENT MAY BE USED TO MAINTAIN TRAFFIC THROUGH THE WORK AREA AND/OR INTERSECTIONS AS DIRECTED BY THE ENGINEER.
- FOR THE LIFE OF THE PROJECT, KEEP TWO (2) CMS BOARDS AVAILABLE FOR USE AS DIRECTED BY THE ENGINEER.

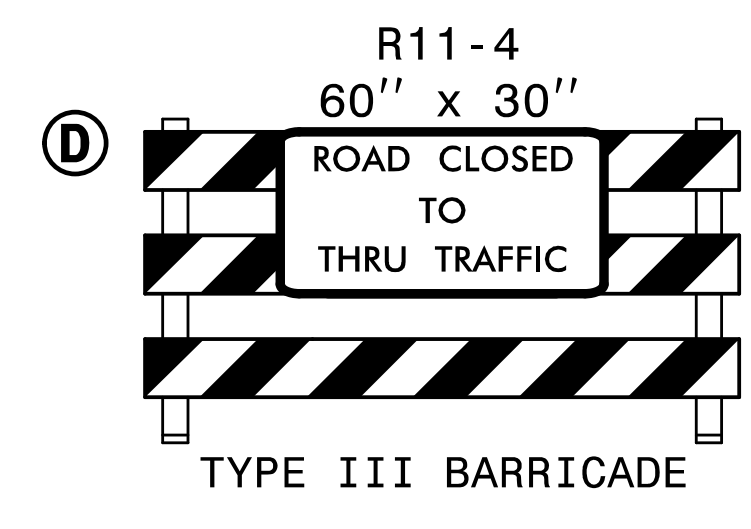
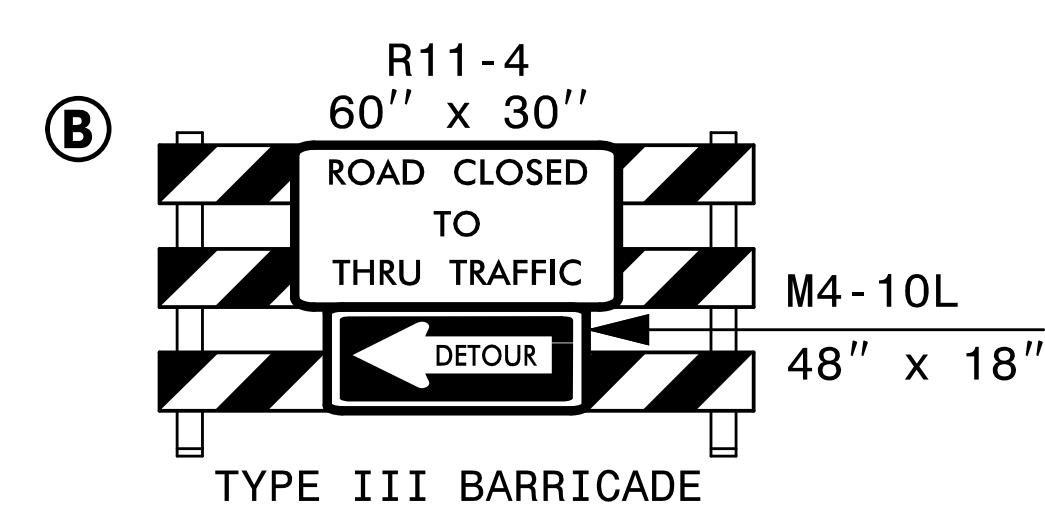
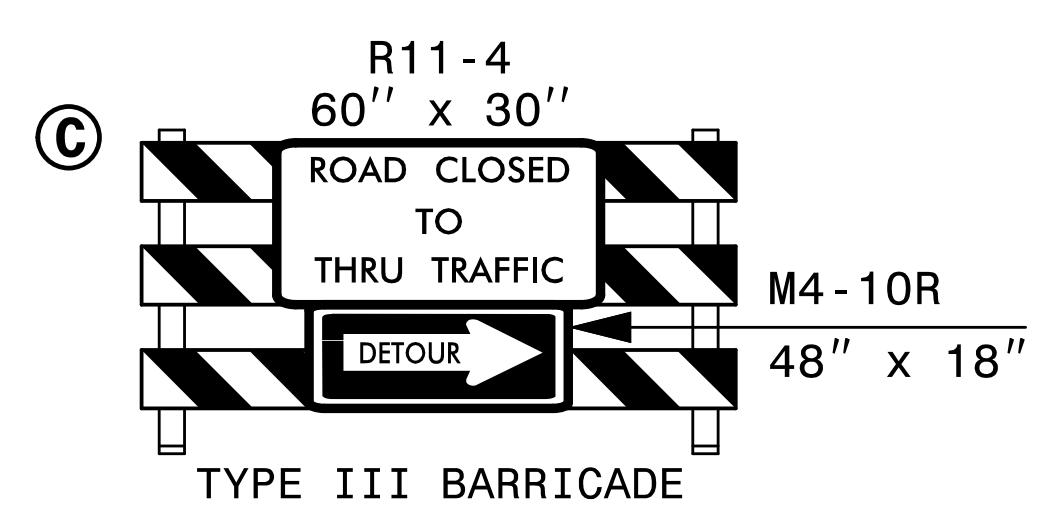
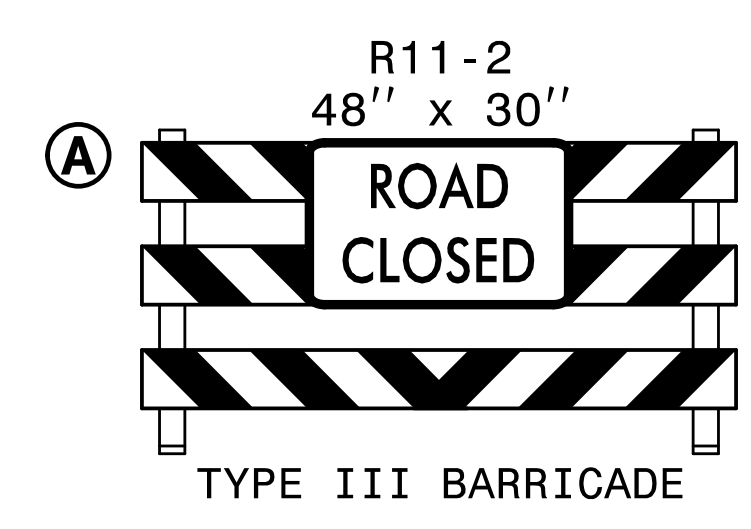
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**TRANSPORTATION  
MANAGEMENT PLAN**  
  
**TRANSPORTATION  
OPERATIONS PLAN:**  
**GENERAL NOTES**  
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REFER TO RSD 1101.03 (SHEETS 1 & 2 OF 9) FOR ADDITIONAL REQUIRED STANDARD SIGNING REQUIRED WITH DETOUR ROUTES.



E

MESSAGE NO. 1	MESSAGE NO. 2
NC 53 CLOSED AHEAD	DETOUR NEXT RIGHT/LEFT

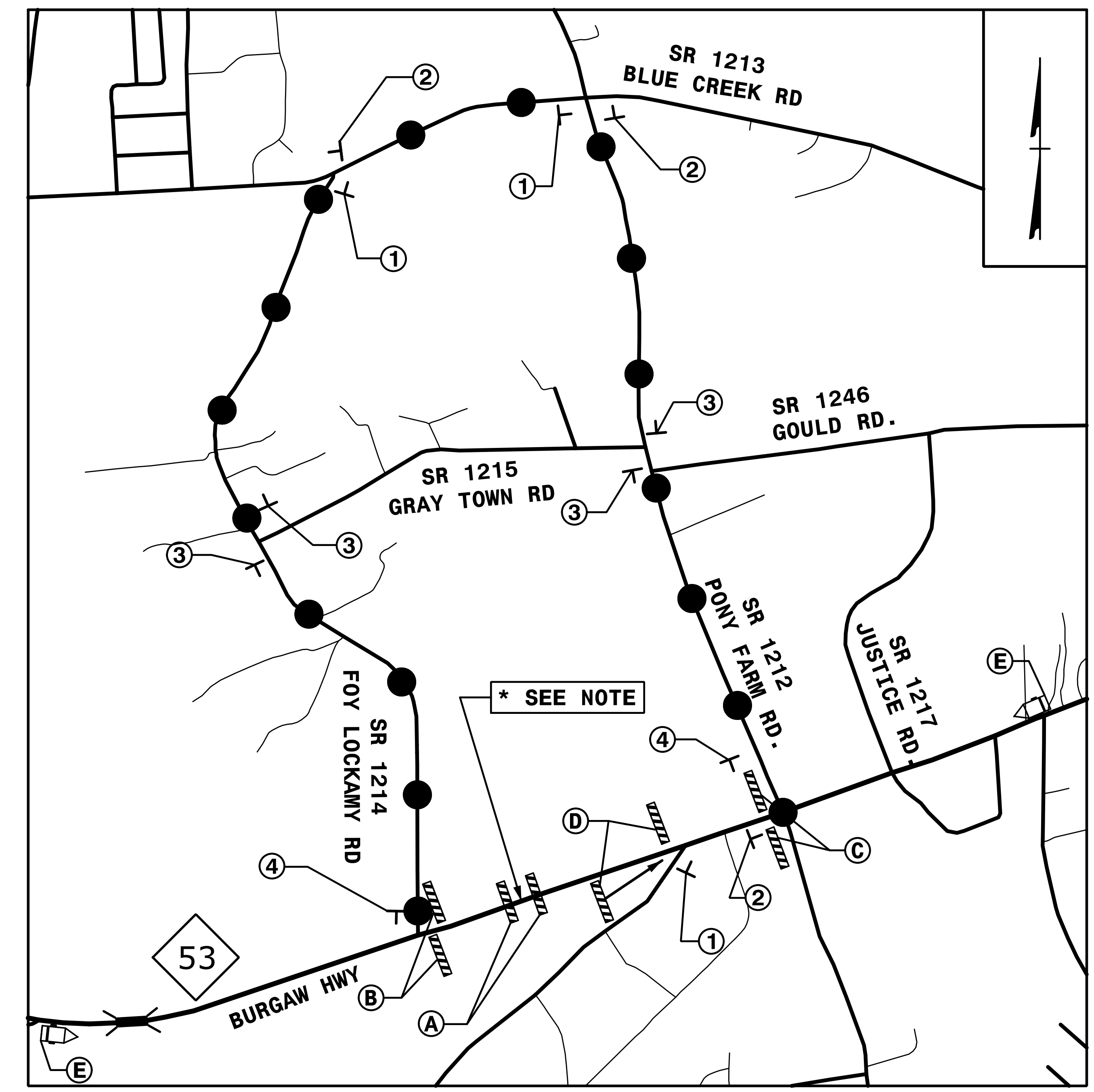
CHANGEABLE MESSAGE SIGN

\* F

MESSAGE NO. 1	MESSAGE NO. 2
NC 53 TO BE CLOSED	XX/XX/XX TO XX/XX/XX

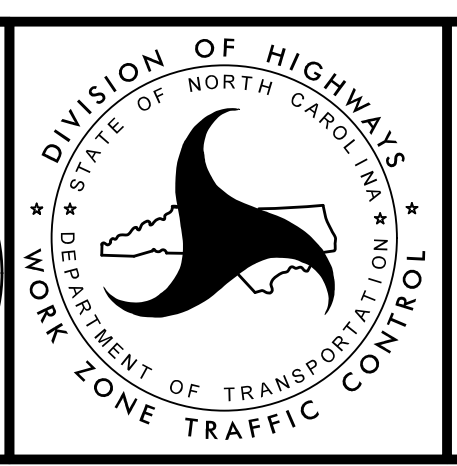
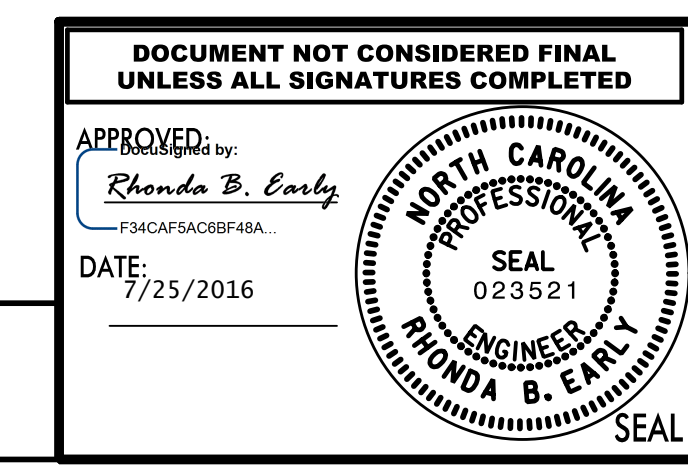
CHANGEABLE MESSAGE SIGN

\* TWO WEEKS PRIOR TO CLOSURE, USE CMS BOARDS TO ALERT MOTORIST OF UPCOMING ROAD CLOSURE. PLACE BOARDS AT POINT OF CLOSURE OR AS DIRECTED BY THE ENGINEER (UP TO 1/2 MILE FROM CLOSURE). RELOCATE BOARDS AS SHOWN WHEN CLOSURE IS IMPLEMENTED.



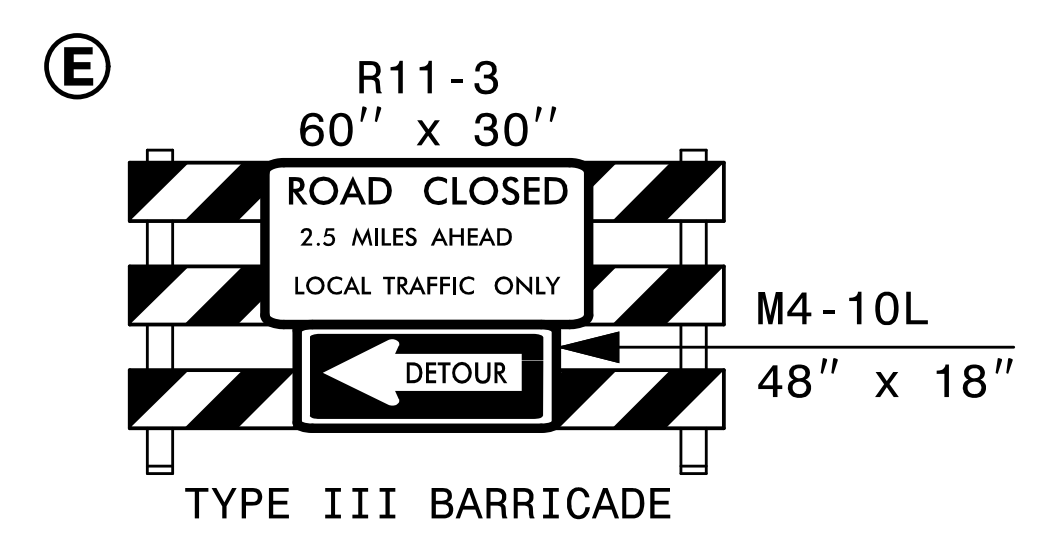
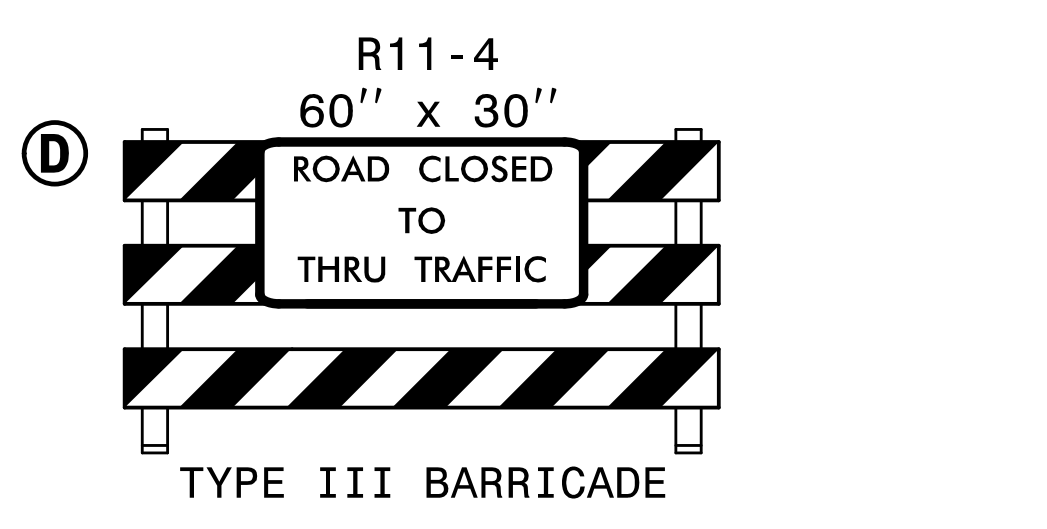
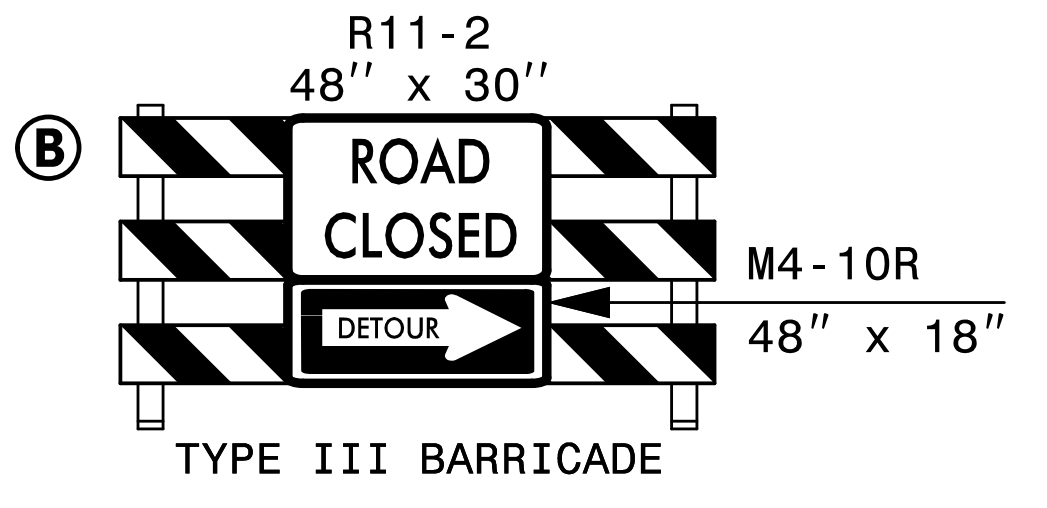
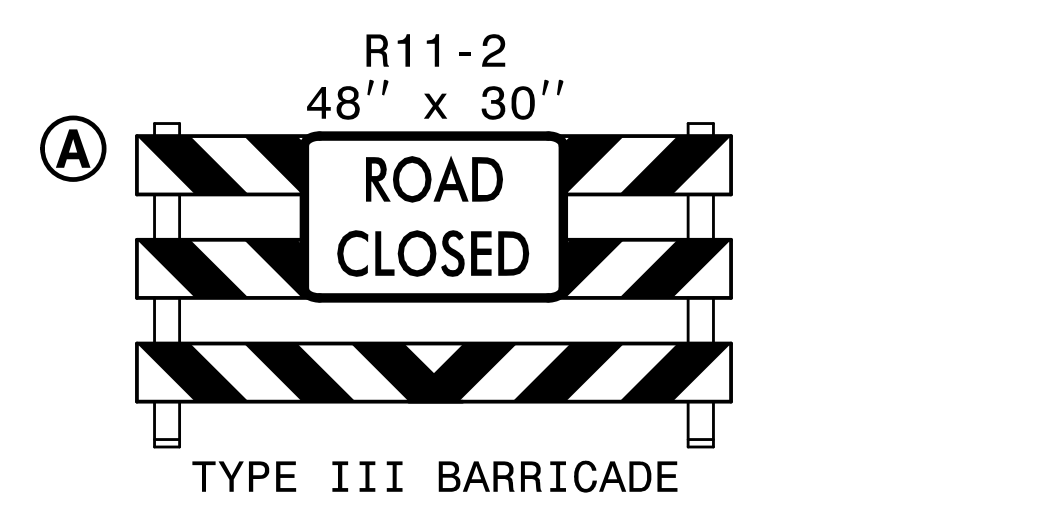
\* NOTE - DETOUR ROUTE USED IN:  
 AREA 2, PHASE I, STEP 3: CLOSURE FOR PIPE INSTALLATION AT -L- STA 34+25+/-  
 AREA 2, PHASE I, STEP 4: CLOSURE FOR PIPE INSTALLATION AT -L- STA 57+60+/-

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TRANSPORTATION  
 MANAGEMENT PLAN  
 DETOUR #1  
 -L- FROM  
 -Y1- TO -Y3-  
 ...R5023BC.tc\_TMP\_02\_detour.dgn

- ① **HAWS RUN RD** SP-1  
 DETOUR M4-8 24" X 12"  
 → M6-1 21" X 15"
- ② **HAWS RUN RD** SP-1  
 DETOUR M4-8 24" X 12"  
 ← M6-1 L 21" X 15"
- ③ **HAWS RUN RD** SP-1  
 DETOUR M4-8 24" X 12"  
 ↑ M6-3 21" X 15"
- ④ **END DETOUR** M4-8 A 24" X 18"
- ⑤ **TO** M4-5 24" X 12"  
 53 MI-5  
 → M6-1 21" X 15"
- ⑥ **TO** M4-5 24" X 12"  
 53 MI-5  
 ← M6-1 L 21" X 15"



F

MESSAGE NO. 1	MESSAGE NO. 2
HAWS RUN RD CLOSED AHEAD	DETOUR NEXT RIGHT

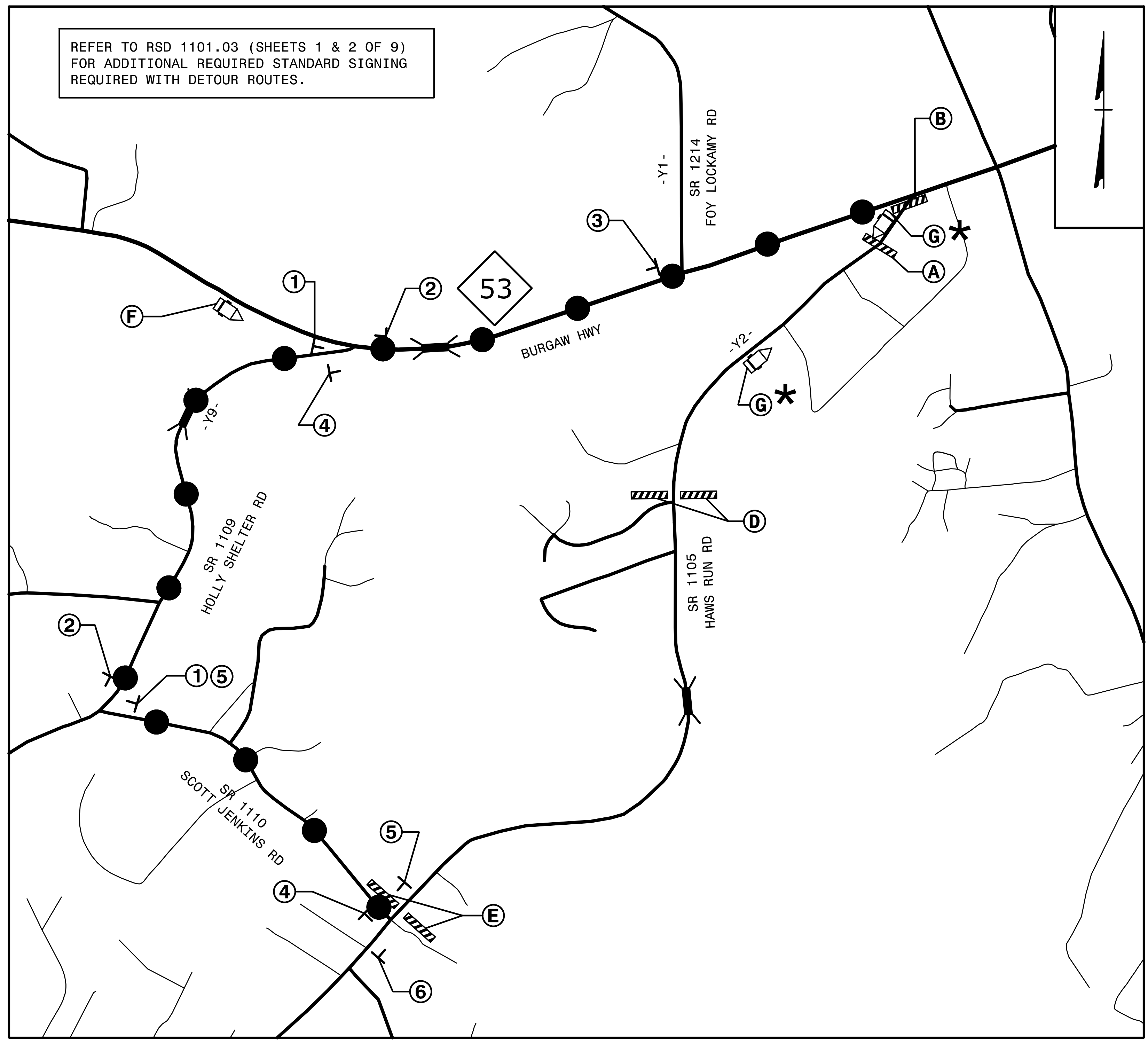
CHANGEABLE MESSAGE SIGN

\* G

MESSAGE NO. 1	MESSAGE NO. 2
HAWS RUN RD TO BE CLOSED	XX/XX/XX TO XX/XX/XX

CHANGEABLE MESSAGE SIGN

REFER TO RSD 1101.03 (SHEETS 1 & 2 OF 9) FOR ADDITIONAL REQUIRED STANDARD SIGNING REQUIRED WITH DETOUR ROUTES.



DETOUR USED IN AREA 2, PHASE I, STEP 5 FOR PIPE INSTALLATION

\* TWO WEEKS PRIOR TO CLOSURE, USE CMS BOARDS TO ALERT MOTORIST OF UPCOMING ROAD CLOSURE. PLACE BOARDS AS DIRECTED BY THE ENGINEER (UP TO 1/2 MILE FROM CLOSURE). REMOVE OR RELOCATE BOARDS WHEN CLOSURE IS IMPLEMENTED.

SEE SHEET TMP-2C FOR SP-1 SIGN DESIGN

7/25/2016  
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**HNTB** HNTB NORTH CAROLINA, P.C.  
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APPROVED: Rhonda B. Early  
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 DATE: 7/25/2016


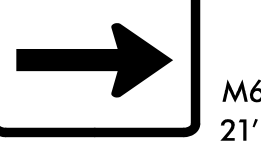

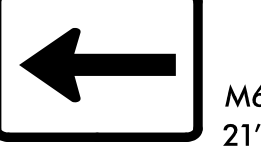

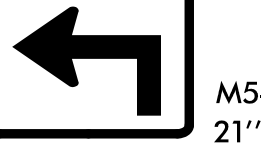



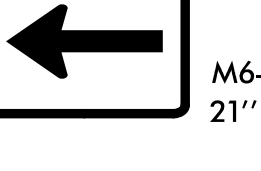

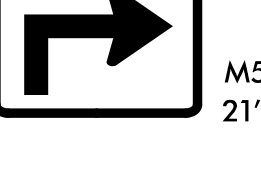
**SEAL**  
 NORTH CAROLINA PROFESSIONAL ENGINEER  
 RHONDA B. EARLY  
 023521

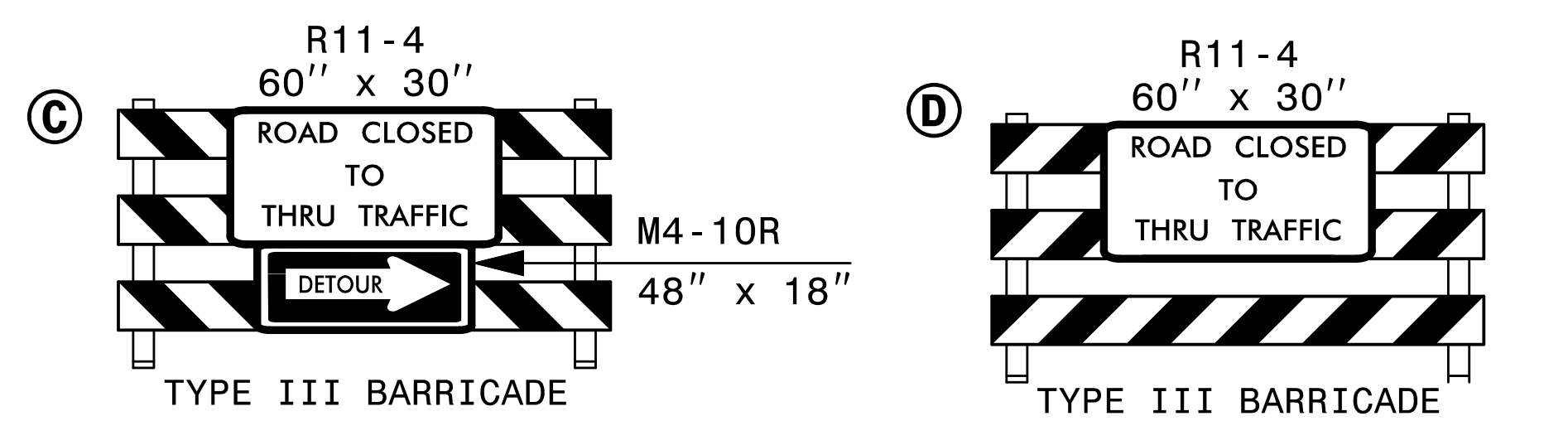
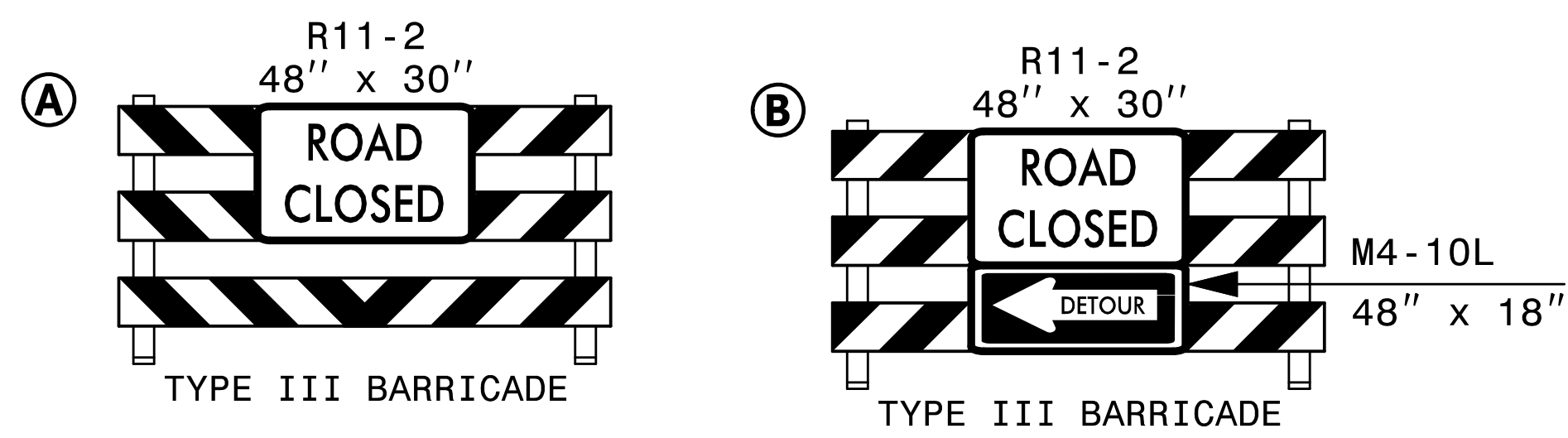
DIVISION OF HIGHWAYS  
 STATE OF NORTH CAROLINA  
 DEPARTMENT OF TRANSPORTATION  
 WORK ZONE TRAFFIC CONTROL

TRANSPORTATION MANAGEMENT PLAN

**DETOUR #2**  
 -Y2- AT -L-

... \R5023B-TC-TMP-02Adetour.dgn

- ① **DETOUR** M4-8 24" X 12"  
**EAST** M3-2 24" X 12"  
 M1-5  
 M6-1 21" X 15"
- ② **DETOUR** M4-8 24" X 12"  
**EAST** M3-2 24" X 12"  
 M1-5  
 M6-1 L 21" X 15"
- ③ **DETOUR** M4-8 24" X 12"  
**EAST** M3-2 24" X 12"  
 M1-5  
 M5-1 21" X 15"
- ④ **DETOUR** M4-8 24" X 12"  
**WEST** M3-4 24" X 12"  
 M1-5  
 M6-1 21" X 15"
- ⑤ **DETOUR** M4-8 24" X 12"  
**WEST** M3-4 24" X 12"  
 M1-5  
 M6-1 L 21" X 15"
- ⑥ **DETOUR** M4-8 24" X 12"  
**WEST** M3-4 24" X 12"  
 M1-5  
 M5-1 R 21" X 15"
- ⑦ **END  
DETOUR** M4-8 A 24" X 18"



⑤

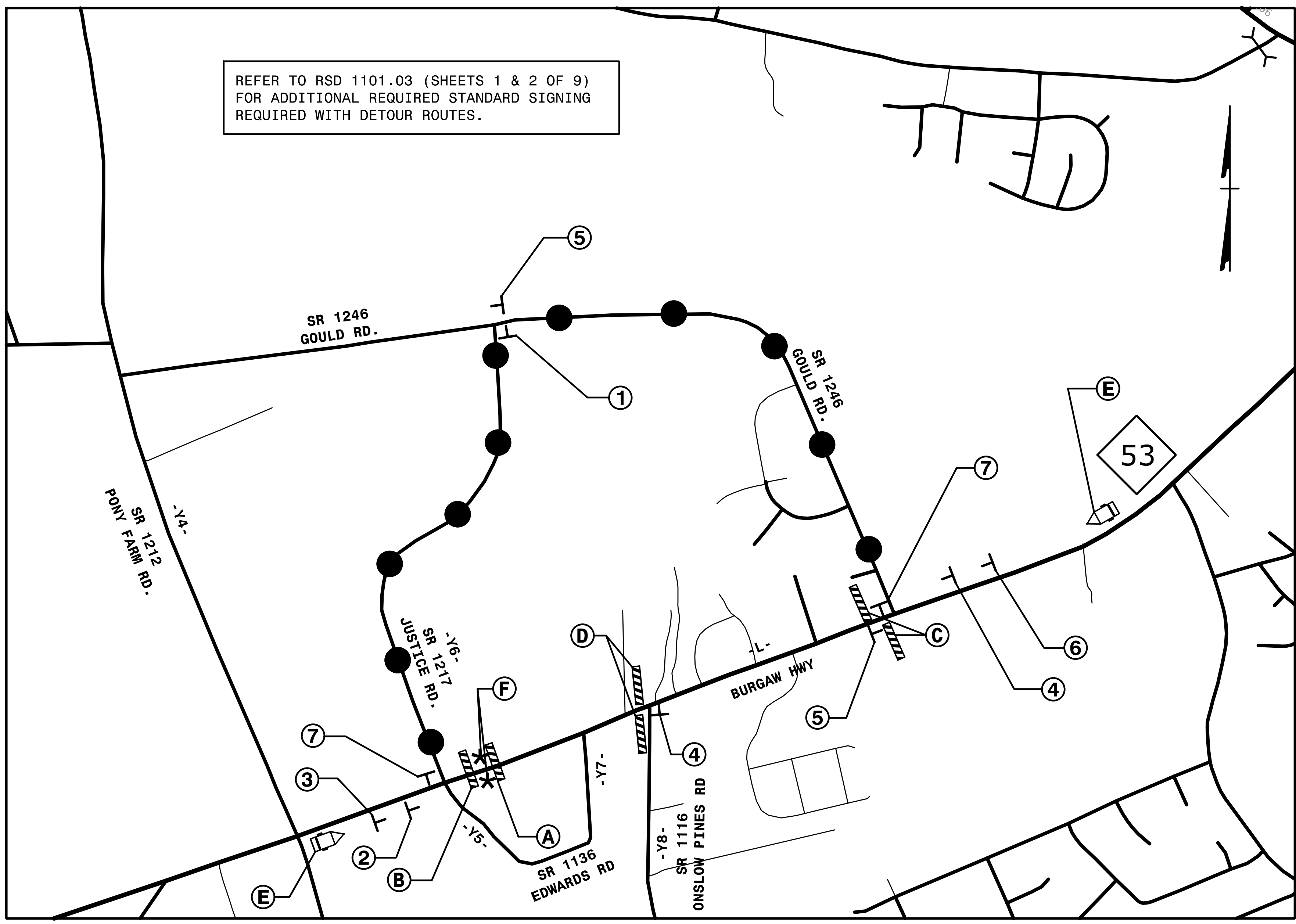
MESSAGE NO. 1	MESSAGE NO. 2
NC 53 CLOSED AHEAD	DETOUR NEXT RIGHT/LEFT

CHANGEABLE MESSAGE SIGN

\* ⑥

MESSAGE NO. 1	MESSAGE NO. 2
NC 53 TO BE CLOSED	XX/XX/XX TO XX/XX/XX

CHANGEABLE MESSAGE SIGN



REFER TO RSD 1101.03 (SHEETS 1 & 2 OF 9) FOR ADDITIONAL REQUIRED STANDARD SIGNING REQUIRED WITH DETOUR ROUTES.

DETOUR USED IN AREA 2, PHASE I, STEP 8 FOR BOX CULVERT REPLACEMENT

NOTE: REFER TO ROADWAY PLANS FOR DETOUR ROUTE IMPROVEMENT DETAILS.

\* TWO WEEKS PRIOR TO CLOSURE, USE CMS BOARDS TO ALERT MOTORIST OF UPCOMING ROAD CLOSURE. PLACE BOARDS AT POINT OF CLOSURE OR AS DIRECTED BY THE ENGINEER (UP TO 1/2 MILE FROM CLOSURE). RELOCATE BOARDS AS SHOWN WHEN CLOSURE IS IMPLEMENTED.

8/17/99  
 REVISIONS  
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 12:56:48  
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 QA/QC STAGE:  
 REVIEW:  
 CONCUR:  
 REVISE:  
 VERIFY:

**HNTB** HNTB NORTH CAROLINA, P.C.  
 343 E. Six Forks Road, Suite 200  
 Raleigh, North Carolina 27609  
 NC License No: C-1554

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APPROVED: Rhonda B. Early  
 F53ACAFSACBFBABA  
 DATE: 9/22/2016

**NORTH CAROLINA PROFESSIONAL ENGINEER**  
 SEAL  
 023521  
 RHONDA B. EARLY

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

TRANSPORTATION MANAGEMENT PLAN  
 DETOUR #3  
 -L- FROM -Y6- TO GOULD RD

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8/17/99

REVISIONS

<p><b>SIGN NUMBER:</b> SP-1      <b>BACKG COLOR:</b> Fluorescent Orange  <b>TYPE:</b> D                      <b>COPY COLOR:</b> Black  <b>QUANTITY:</b> 4</p> <p><b>SIGN WIDTH:</b> 5'-0"  <b>HEIGHT:</b> 1'-0"  <b>TOTAL AREA:</b> 5.0 Sq.Ft.</p> <p><b>BORDER TYPE:</b> RECESSED  <b>RECESS:</b> 0.38"  <b>WIDTH:</b> 0.38"  <b>RADII:</b> 1.5"</p> <p><b>NO. Z BARS:</b> N/A              <b>MAT'L:</b> 0.125" ALUMINUM  <b>LENGTH:</b> N/A</p> <p><b>NOTES:</b></p> <ol style="list-style-type: none"> <li>Legend and border should be direct applied, black, non-reflective sheeting.</li> <li>Background shall be Grade B, fluorescent orange, retroreflective sheeting.</li> <li>To be mounted with Detour signing.</li> </ol>	<p><b>DESIGN BY:</b> TRT                      <b>CHECKED BY:</b> ADK/CAJ  <b>PROJECT ID:</b> R-5023B              <b>DIV:</b> 03                      <b>DATE:</b> October 2015</p>	<p><b>BORDER</b>  <b>R=1.5"</b>  <b>TH=0.38"</b>  <b>IN=0.38"</b></p>																																																																																																																																																																																																					
Spacing Factor is 1 unless specified otherwise																																																																																																																																																																																																							
<p><b>LETTER POSITIONS</b></p> <p style="text-align: center;">Letter spacings are to start of next letter</p> <table border="1" style="width: 100%; border-collapse: collapse; font-size: x-small;"> <thead> <tr> <th></th> <th>H</th> <th>A</th> <th>W</th> <th>S</th> <th></th> <th>R</th> <th>U</th> <th>N</th> <th></th> <th>R</th> <th>D</th> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th> <th>Series/Size Text Length</th> </tr> </thead> <tbody> <tr> <td></td> <td>5.5</td> <td>4.2</td> <td>4.2</td> <td>5.1</td> <td>3.4</td> <td>6</td> <td>4.4</td> <td>4.7</td> <td>3.4</td> <td>6</td> <td>4.4</td> <td>3.4</td> <td>5.5</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>C 2000 49</td> </tr> <tr><td> </td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td> </td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td> </td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td> </td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td> </td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td> </td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td> </td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> </tbody> </table>				H	A	W	S		R	U	N		R	D									Series/Size Text Length		5.5	4.2	4.2	5.1	3.4	6	4.4	4.7	3.4	6	4.4	3.4	5.5								C 2000 49																																																																																																																																																										
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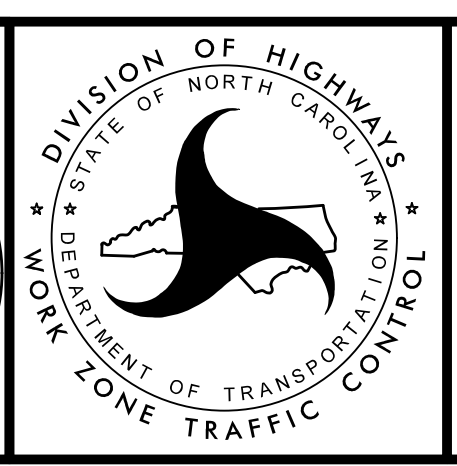
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**REVISE:** \_\_\_\_\_  
**VERIFY:** \_\_\_\_\_



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**APPROVED:**  
*Andrew D. Klinck*  
 E3078F84596E44B

**DATE:**  
 7/28/2016



TRANSPORTATION  
 MANAGEMENT PLAN

SIGN DESIGN

...R5023BC-tp\_02C\_sign\_design.dgn



# PHASING

## NOTES:

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.

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

COMPLETE ANY PROPOSED WIDENING IN SUCH A MANNER THAT PONDING OF WATER WILL NOT OCCUR IN THE TRAVEL LANE. THIS MAY REQUIRE A COMBINATION OF INSTALLATION OF PROPOSED PIPES, TEMPORARY PIPES, STEEL PLATES, AND TEMPORARY MEDIAN AND OUTSIDE DITCHES.

PAVE PROPOSED CONSTRUCTION, UP TO BUT NOT INCLUDING THE FINAL LAYER OF SURFACE COURSE, IN ALL PHASES UNTIL STATED TO INSTALL FINAL LAYER IN THE PHASING.

THE TERM RSD DENOTES "ROADWAY STANDARD DRAWING".

## AREA 1 PHASE I

\*\*\* REFER TO DETAIL SHEET TMP-4 \*\*\*

STEP 1: INSTALL WORK ZONE ADVANCE WARNING SIGNS ON -L1- (NC 53) & -Y9- (SR 1109) ACCORDING TO RSD 1101.01.

STEP 2: USING RSD 1101.02 (SHEET 1 OF 15), CONSTRUCT LEFT SIDE WIDENING ALONG -L1- FROM STA 14+40+/- TO STA 28+00+/- UP TO EXISTING EDGE AND ELEVATION. (LN-1)

STEP 3: PLACE TEMPORARY PAVEMENT MARKING AND SIGNS ALONG -L1- AS SHOWN ON SHEET TMP-5 AND SHIFT TRAFFIC TO NEW PATTERN.

## PHASE II

\*\*\* REFER TO DETAIL SHEET TMP-5 \*\*\*

STEP 1: USING RSD 1101.02 (SHEET 1 OF 15), WEDGE EXISTING AND CONSTRUCT RIGHT SIDE WIDENING ALONG -L1- FROM STA 14+40+/- TO STA 28+00+/- AND WEDGE & WIDEN -Y9-. PLACE TEMPORARY PAVEMENT MARKING IN FINAL PATTERN ON -Y9- FROM STA 12+75+/- TO -L1- AND SHIFT TO NEW PATTERN.

STEP 2: USING RSD 1101.02 (SHEET 1 OF 15), PLACE FINAL LAYER OF SURFACE COURSE, FINAL MARKINGS AND MARKERS ON -L1- AND -Y9- AS SHOWN IN FINAL PAVEMENT MARKING PLANS. OPEN ALL LANES TO TRAFFIC AND REMOVE ALL TEMPORARY SIGNS AND DEVICES.

## AREA 2 PHASE I

\*\*\* REFER TO DETAIL SHEETS TMP-6 THRU TMP-11 \*\*\*

STEP 1: INSTALL WORK ZONE ADVANCE WARNING SIGNS ON -L- (NC 53), -Y1- (SR 1214), -Y2- (SR 1105), -Y3- (SR 1113), -Y4- (SR 1212), -Y6- (SR 1217), -Y8- (SR 1116), JUSTICE ROAD, AND GOULD ROAD (DETOUR ROUTE IMPROVEMENTS) ACCORDING TO RSD 1101.01.

STEP 2: BEGIN INSTALLATION OF PROPOSED SIGNAL AT -L- AND -Y3-/-Y4-. (LN-5)

USING RSD 1101.02 (SHEET 1 OF 15), BEGIN RESURFACING AND WIDENING PROPOSED DETOUR ROUTE SHOWN ON SHEET TMP-2B AND ROADWAY PLAN SHEET 2B-1.

INSTALL AND COVER DETOUR SIGNS AS SHOWN ON SHEETS TMP-2 & TMP-2A.

COMPLETE THE REQUIREMENTS OF AREA 2, PHASE I, STEP 3 BETWEEN 8:00 PM FRIDAY AND 5:30 AM THE FOLLOWING MONDAY MORNING. (SEE INTERMEDIATE CONTRACT TIME AND LIQUIDATED DAMAGES.)

STEP 3: COMPLETE THE REQUIREMENTS OF STEPS 3A THRU 3C.

3A: UNCOVER DETOUR SIGNS (PLACED IN STEP 1) AND CLOSE -L- (NC 53) TO TRAFFIC AS SHOWN ON TMP-2.

3B: AWAY FROM TRAFFIC, INSTALL 66"x51" CAPA (-L- STA 34+25+/-).

3C: REPAIR PAVEMENT AND OPEN -L- TO ORIGINAL TRAFFIC PATTERN. (LN-1)

COMPLETE THE REQUIREMENTS OF AREA 2, PHASE I, STEP 4 BETWEEN 8:00 PM FRIDAY AND 5:30 AM THE FOLLOWING MONDAY MORNING. (SEE INTERMEDIATE CONTRACT TIME AND LIQUIDATED DAMAGES.)

STEP 4: COMPLETE THE REQUIREMENTS OF STEPS 4A THRU 4C.

4A: UNCOVER DETOUR SIGNS (PLACED IN STEP 1) AND CLOSE -L- (NC 53) TO TRAFFIC AS SHOWN ON TMP-2.

4B: AWAY FROM TRAFFIC, INSTALL DBL 42"x29" CAPA (-L- STA 57+60+/-).

4C: REPAIR PAVEMENT AND OPEN -L- TO ORIGINAL TRAFFIC PATTERN. (LN-1)

COMPLETE THE REQUIREMENTS OF AREA 2, PHASE I, STEP 5 BETWEEN 8:00 PM FRIDAY AND 5:30 AM THE FOLLOWING MONDAY MORNING. (SEE INTERMEDIATE CONTRACT TIME AND LIQUIDATED DAMAGES.)

STEP 5: COMPLETE THE REQUIREMENTS OF STEPS 5A THRU 5C.

5A: UNCOVER DETOUR SIGNS (PLACED IN STEP 1) AND CLOSE -Y2- (HAWS RUN ROAD) TO TRAFFIC AS SHOWN ON TMP-2A.

5B: AWAY FROM TRAFFIC, INSTALL 42"x29" CAPA (-Y2- STA 11+50+/-).

5C: REPAIR PAVEMENT AND OPEN -Y2- TO ORIGINAL TRAFFIC PATTERN. (LN-1)

STEP 6: ACTIVATE PROPOSED SIGNAL AT -L- & -Y3-/-Y4-. (LN-5)

STEP 7: USING RSD 1101.02 (SHEET 1 OF 15) AS NEEDED, BEGIN CONSTRUCTION (WEDGE & WIDEN) OF THE FOLLOWING:  
-L- FROM STA 11+50+/- TO STA 85+00+/- (LN-2,4)  
-L- FROM STA 88+50+/- TO STA 104+25+/- (LN-2,3,4)  
-Y1- FROM -L- TO STA 10+80+/-  
-Y2- FROM STA 12+75+/- TO -L-  
-Y3- FROM STA 10+85+/- TO -L-  
-Y4- FROM -L- TO STA 11+75+/-  
-Y5- FROM STA 11+10+/- TO -L-  
-Y6- FROM -L- TO STA 10+82+/-  
-Y7A- FROM STA 11+00+/- TO -L-  
-Y7- FROM STA 12+54+/- TO -L-  
-Y8- FROM STA 11+50+/- TO -L-

COMPLETE THE WORK BEGUN IN AREA 2, PHASE I, STEP 2.

PLACE AND COVER DETOUR SIGNS AS SHOWN ON SHEET TMP-2B.

## AREA 2 PHASE I (CONTINUED)

\*\*\* REFER TO DETAIL SHEETS TMP-6 THRU TMP-11 \*\*\*

COMPLETE THE REQUIREMENTS OF AREA 2, PHASE I, STEP 8 IN 90 CONSECUTIVE DAYS (SEE INTERMEDIATE CONTRACT TIME AND LIQUIDATED DAMAGES.)

STEP 8: COMPLETE THE REQUIREMENTS OF STEPS 8A THRU 8C. (LN-2,4)

8A: UNCOVER DETOUR SIGNS (PLACED IN STEP 1) AND CLOSE -L- (NC 53) TO TRAFFIC AS SHOWN ON TMP-2B.

8B: AWAY FROM TRAFFIC, CONSTRUCT PROPOSED BOX CULVERT (-L- STA 87+50+/-) AND REPAIR PAVEMENT.

8C: OPEN -L- (NC 53) TO TRAFFIC AND COVER/REMOVE DETOUR SIGNING.

STEP 9: USING RSD 1101.02 (SHEET 1 OF 15), WEDGE AND WIDEN -L- (NC 53) FROM STA 85+00+/- TO STA 88+50+/-.

COMPLETE WORK BEGUN IN AREA 2, PHASE I, STEP 7. (LN-1)

STEP 10: USING RSD 1101.02 (SHEET 1 OF 15) AS NEEDED, PLACE FINAL LAYER OF SURFACE COURSE, COMPLETE ANY ISLAND CONSTRUCTION, AND PLACE FINAL PAVEMENT MARKING & MARKERS ON -L- AND ALL Y-LINES. OPEN ALL LANES TO TRAFFIC AND REMOVE ALL TEMPORARY SIGNS AND DEVICES.

## LOCAL NOTES

LN-1 RECORD LOCATION OF EXISTING PAVEMENT MARKING AND REPLACE IN ORIGINAL LOCATION UNLESS PLACING MARKINGS IN THE FINAL PATTERN.

LN-2 DO NOT USE FLAGGING OPERATIONS ON -L- (NC 53) WHILE OFF-SITE DETOUR IS IN USE.

LN-3 USE DRUMS, SKINNY DRUMS, TEMPORARY PIPE, TEMPORARY DRIVES AS NEEDED TO MAINTAIN ACCESS TO PROPERTIES LEFT OF -L- FROM STA 89+00+/- TO STA 94+00+/-.

LN-4 PLACE SAFETY FENCE TO DENOTE HISTORIC PROPERTY BOUNDARIES AS SHOWN IN ROADWAY PLAN SHEETS 11 THRU 13.

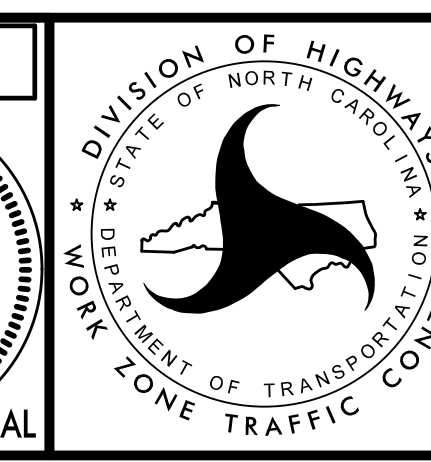
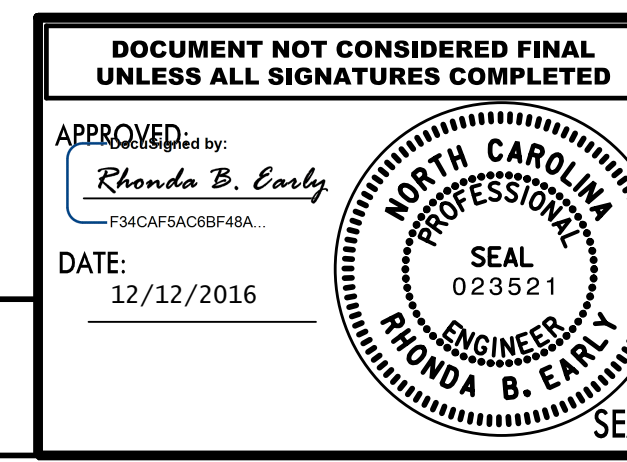
LN-5 COORDINATE WITH CENTURY LINK AND NCDOT FOR INSTALLATION OF PROPOSED SIGNAL AND POLES.

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REVISIONS

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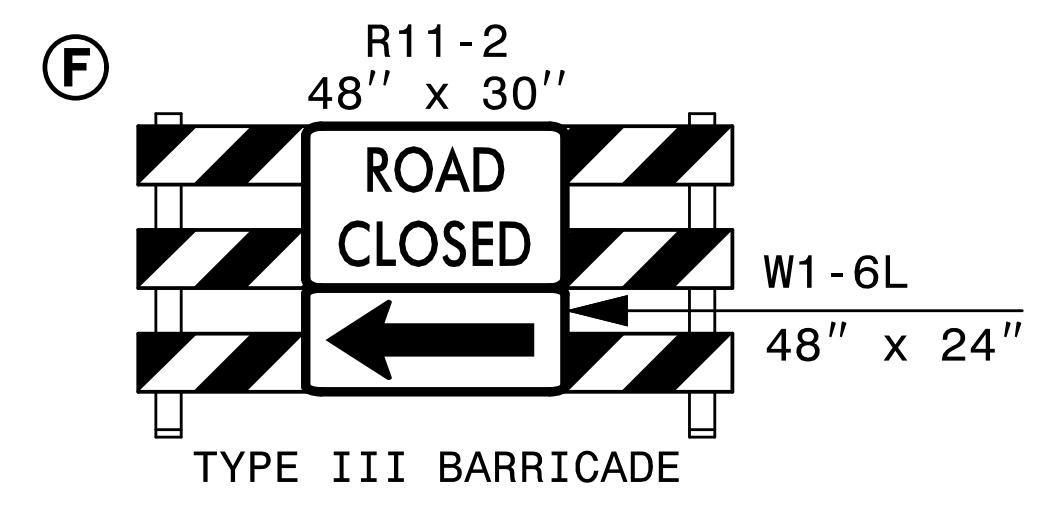
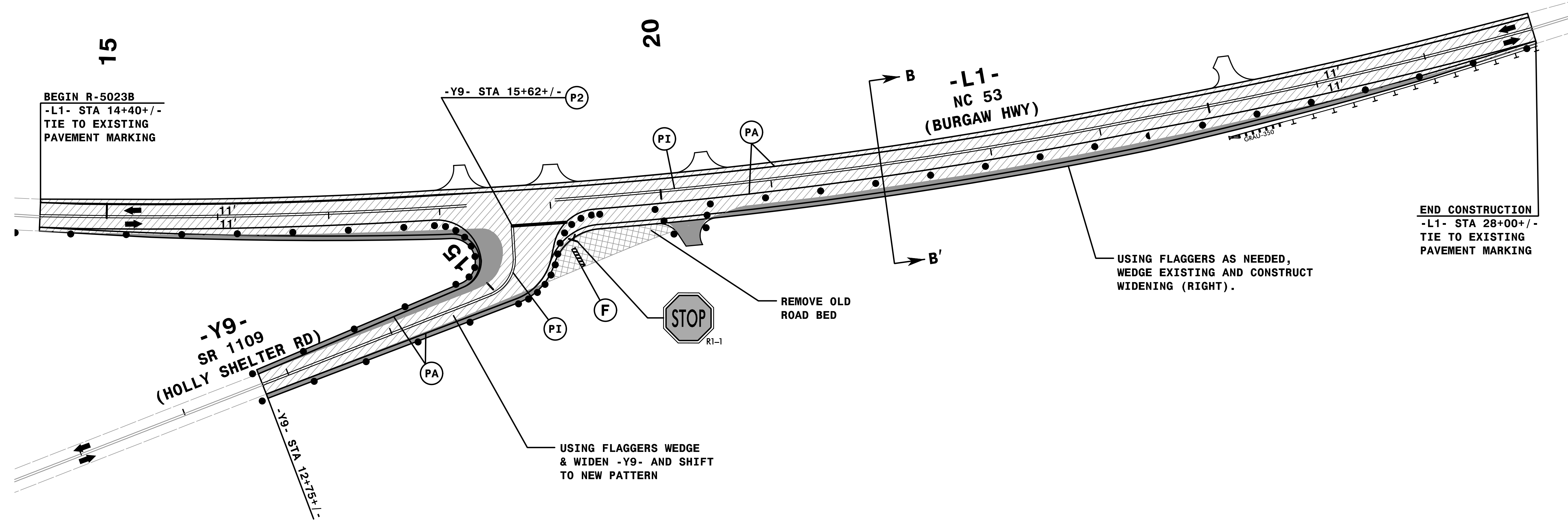
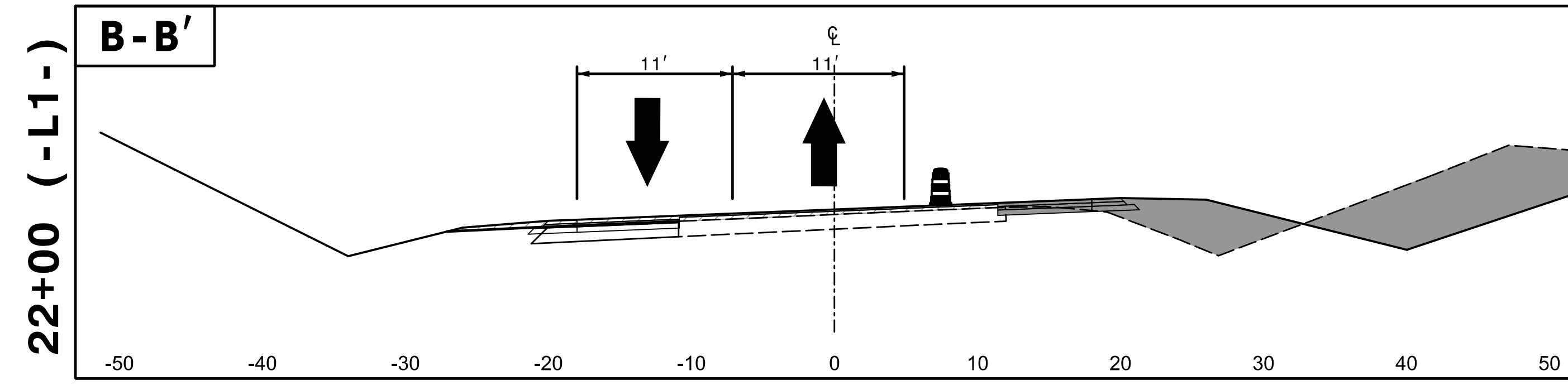


TRANSPORTATION MANAGEMENT PLAN

**PHASING & LOCAL NOTES**

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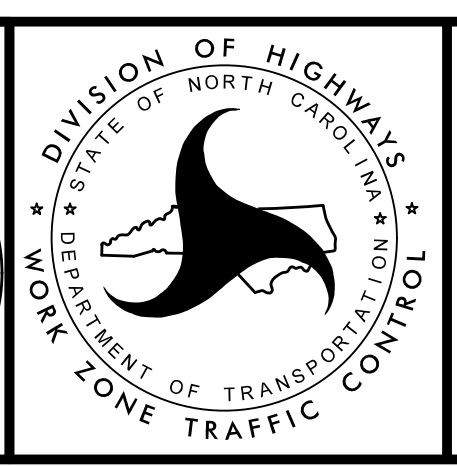
REMOVE CONFLICTING PAVEMENT MARKING.

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 CONCUR:  
 REVISE:  
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APPROVED:  
 Rhonda B. Early  
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 ENGINEER  
 DATE: 7/25/2016

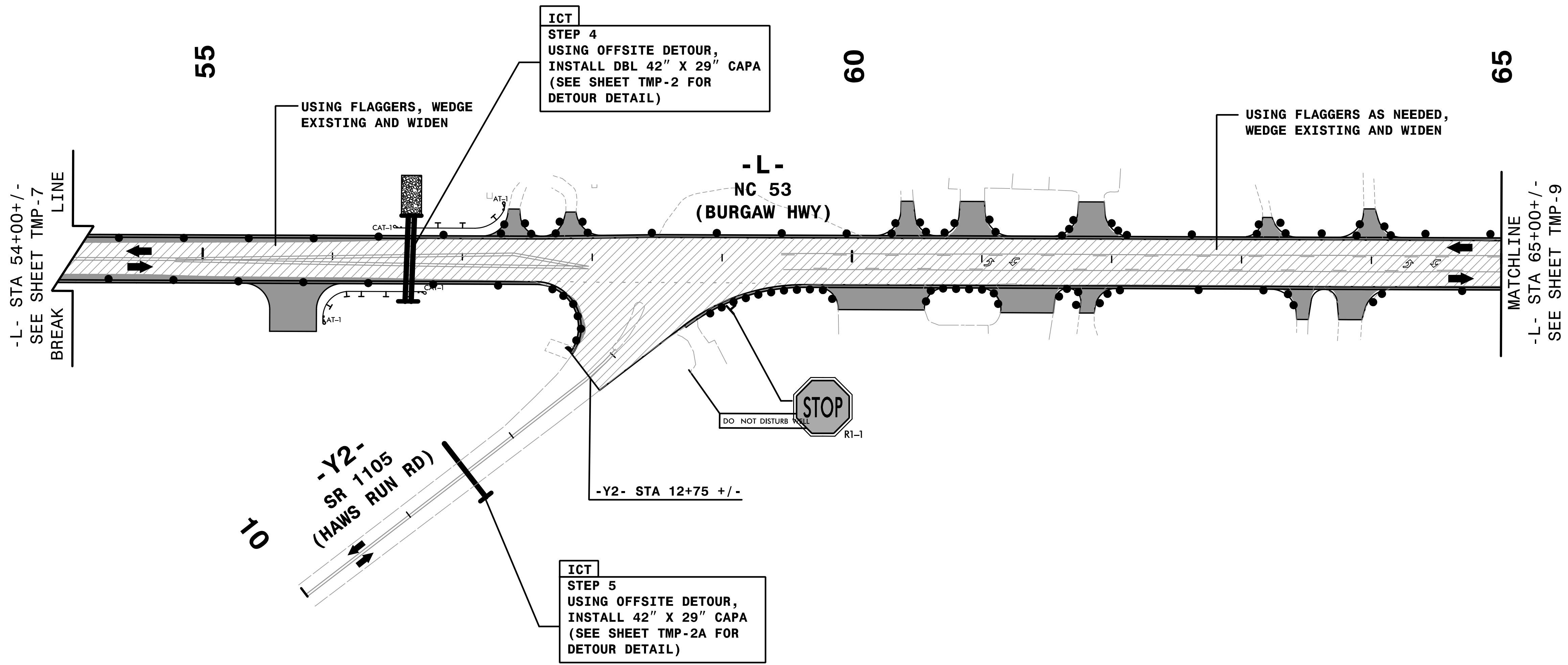
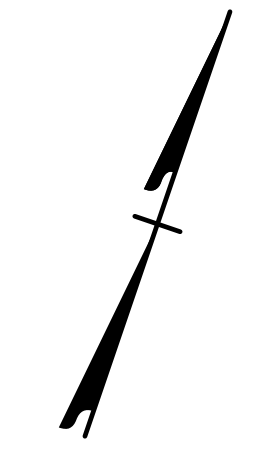


TRANSPORTATION  
 MANAGEMENT PLAN  
 AREA 1  
 PHASE II  
 DETAIL

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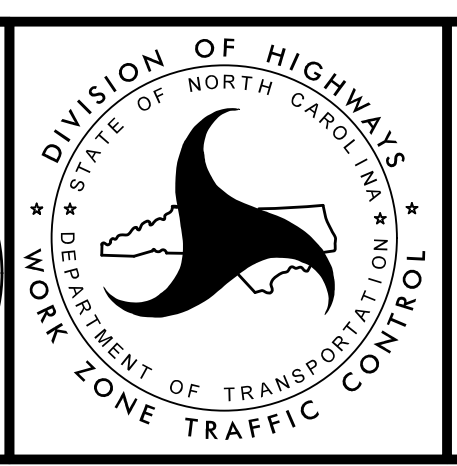


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*Rhonda B. Early*  
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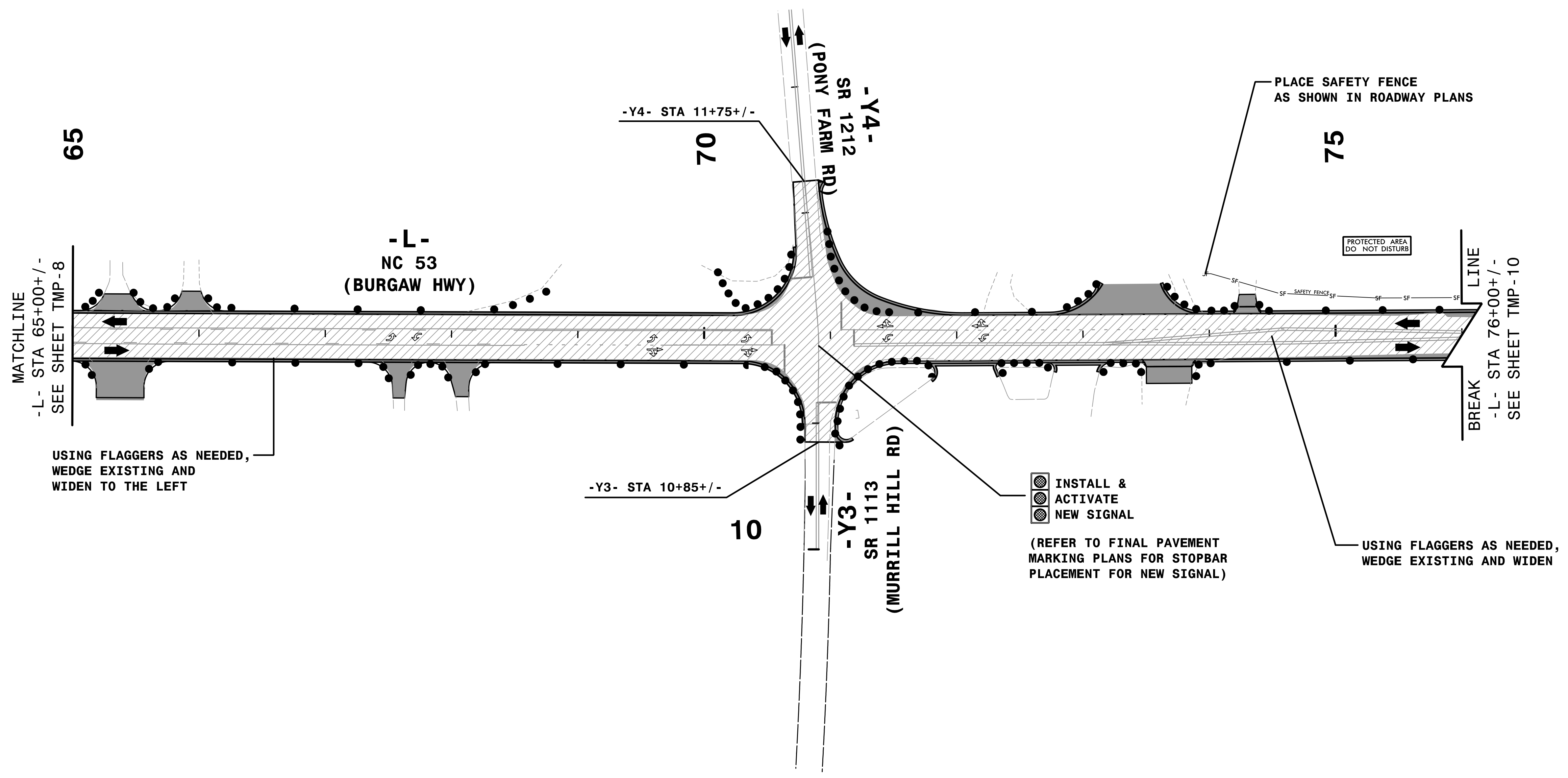
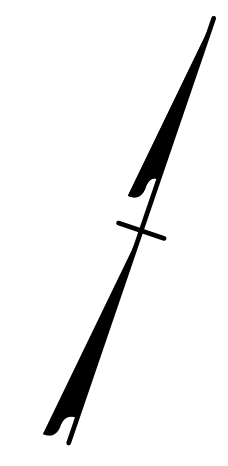
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**SEAL**  
 NORTH CAROLINA  
 PROFESSIONAL  
 ENGINEER  
 RHONDA B. EARLY  
 023521



TRANSPORTATION  
 MANAGEMENT PLAN  
**AREA 2  
 PHASE I  
 DETAIL**

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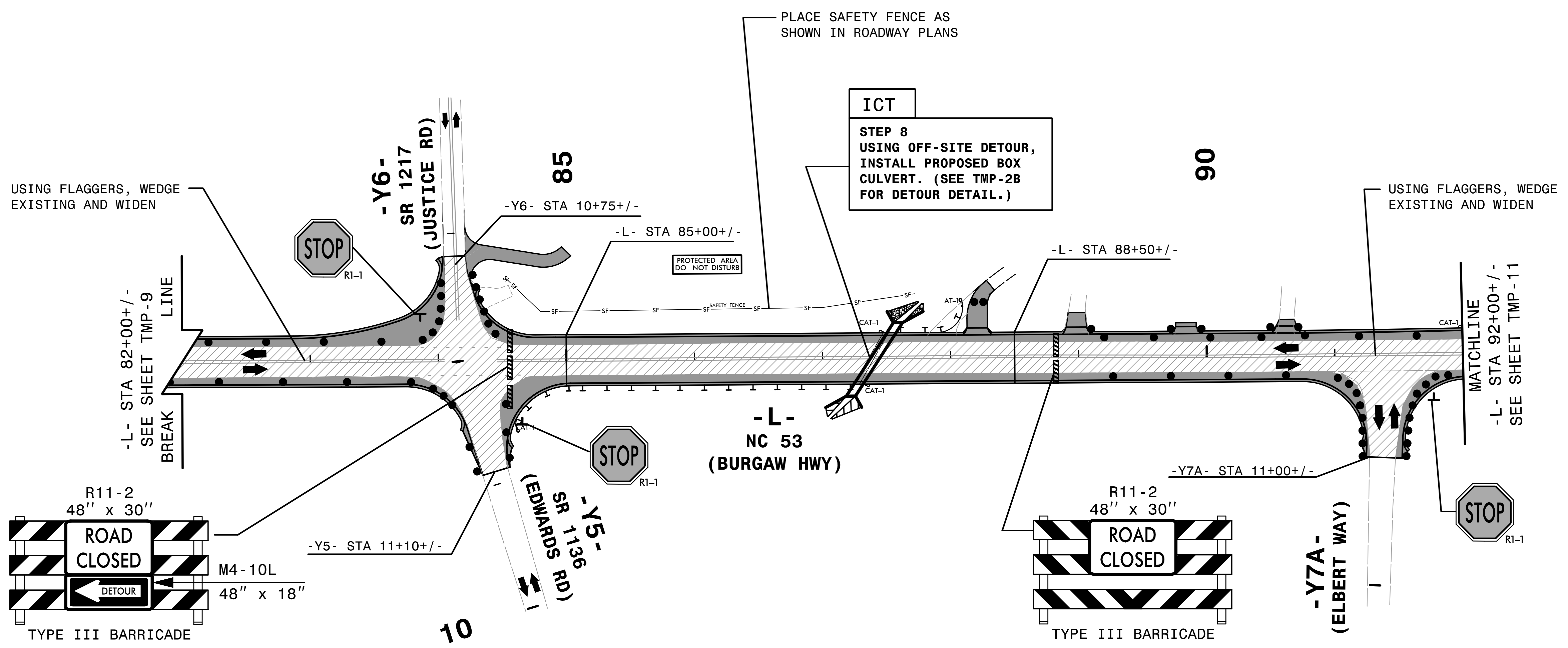
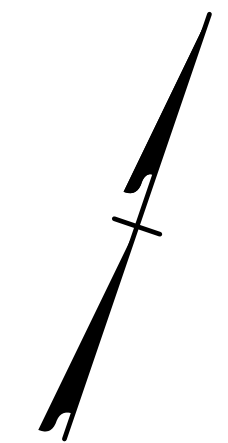
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 7/25/2016

**SEAL**  
 NORTH CAROLINA  
 PROFESSIONAL  
 ENGINEER  
 RHONDA B. EARLY  
 023521

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

TRANSPORTATION  
 MANAGEMENT PLAN  
 AREA 2  
 PHASE I  
 DETAIL

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*Rhonda B. Early*  
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DATE: 7/25/2016

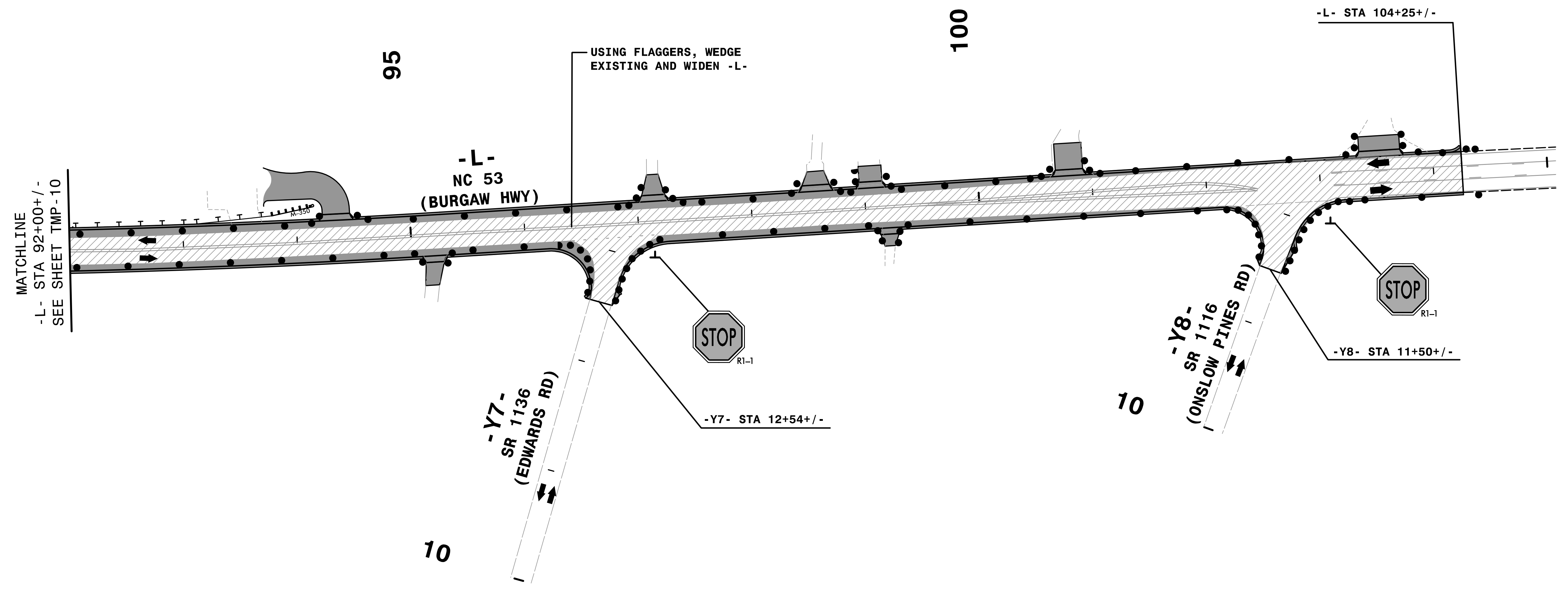
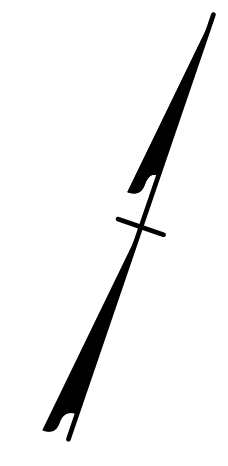
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TRANSPORTATION  
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 PHASE I  
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REVISIONS

QA/QC STAGE:	
REVIEW:	
CONCUR:	
REVISE:	
VERIFY:	

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*Rhonda B. Early*  
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