

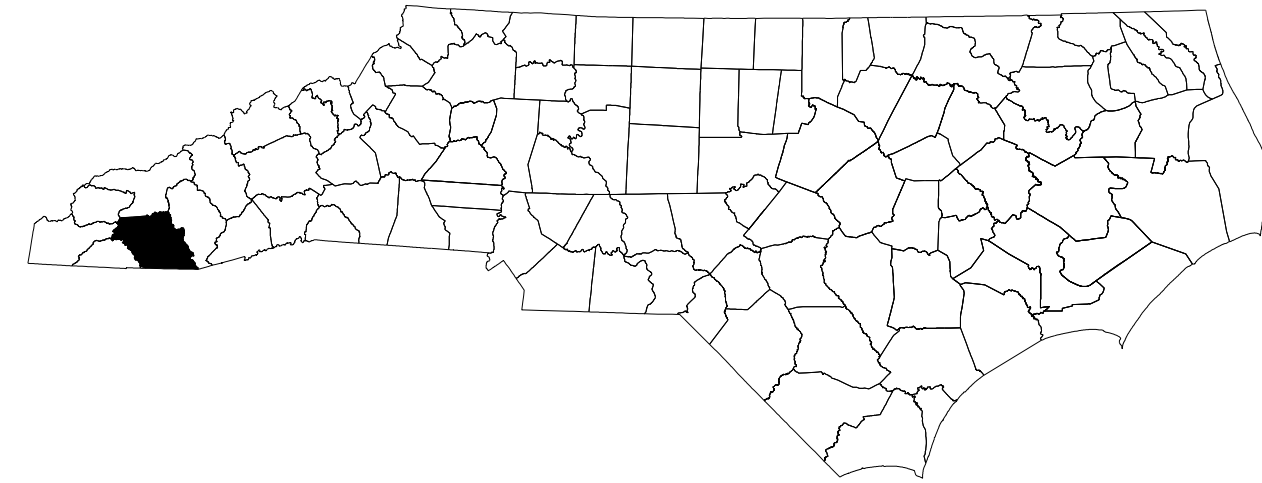
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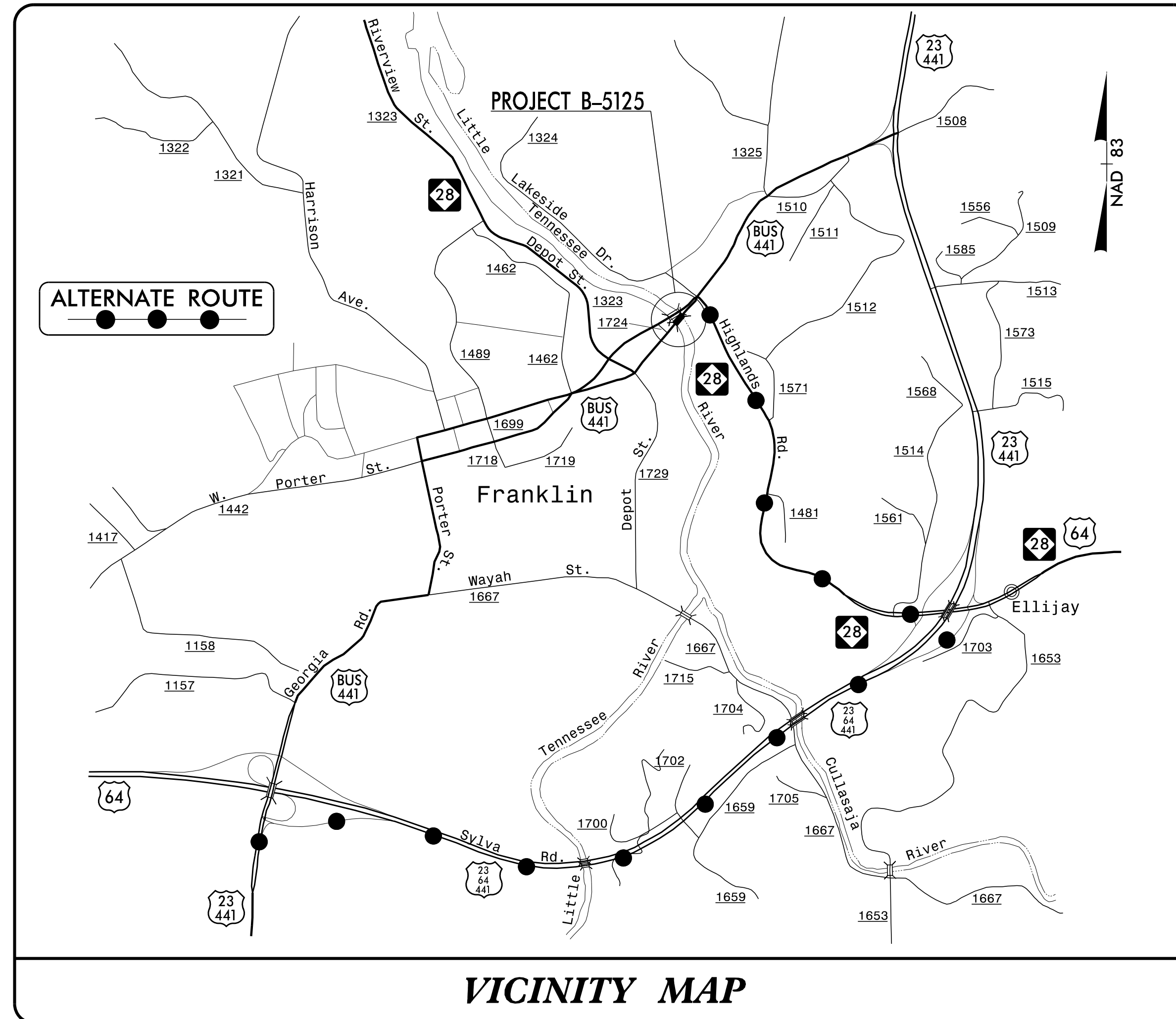
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STATE OF NORTH CAROLINA  
DIVISION OF HIGHWAYS

**TRANSPORTATION MANAGEMENT PLAN**  
**MACON COUNTY**



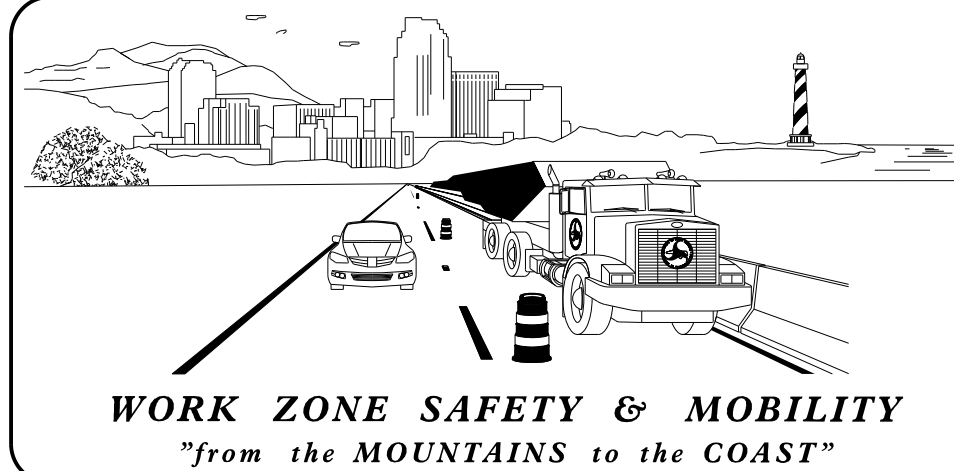
LOCATION: REPLACEMENT OF BRIDGE NO.22 OVER LITTLE TENNESSEE RIVER ON US 441 BUSINESS



**VICINITY MAP**

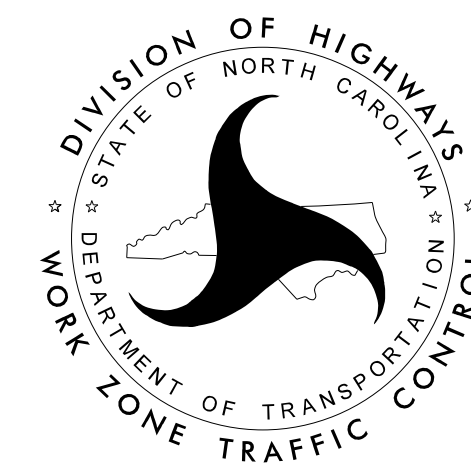
<b>INDEX OF SHEETS</b>	
SHEET NO.	TITLE
TMP-1	TITLE SHEET, AND INDEX OF SHEETS
TMP-1A	LIST OF APPLICABLE ROADWAY STANDARD DRAWINGS, LEGEND, AND TEMPORARY PAVEMENT MARKINGS
TMP-1B	TRANSPORTATION OPERATIONS PLAN: (TRANSPORTATION OPERATIONS AND GENERAL NOTES)
TMP-2	TEMPORARY TRAFFIC CONTROL PHASING
TMP-3	PHASE I DETAILS
TMP-4	PHASE I - DETOUR ROUTE - US 441 BUS. (SOUTH) AND NC 28 (NORTH)
TMP-5	PHASE I - TEMPORARY PAVEMENT MARKINGS AND TEMPORARY SIGNING
TMP-6	PHASE II - ALTERNATE ROUTES - US 441 BUS. (NORTH) AND US 441 BUS. (SOUTH)
TMP-7	PHASE II DETAILS
TMP-8	PHASE III DETAILS

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

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S. B. COATS TRAFFIC CONTROL DESIGN ENGINEER



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APPROVED: Lori D. Stouchko  
DATE: 6/3/2016

SEAL



**TIP PROJECT: B-5125**

SHEET NO.  
TMP-1

# 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
1115.01	FLASHING ARROW BOARDS
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
1205.12	PAVEMENT MARKINGS - BRIDGES
1250.01	RAISED PAVEMENT MARKERS - INSTALLATION SPACING
1251.01	RAISED PAVEMENT MARKERS - PERMANENT AND TEMPORARY

# 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
- USER DEFINED (IF NEEDED)
- USER DEFINED (IF NEEDED)

## 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

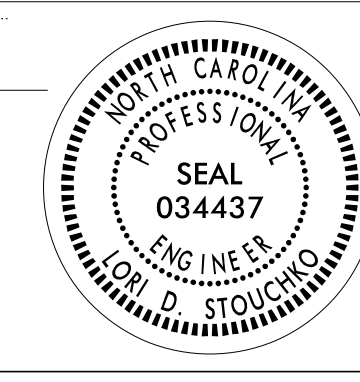
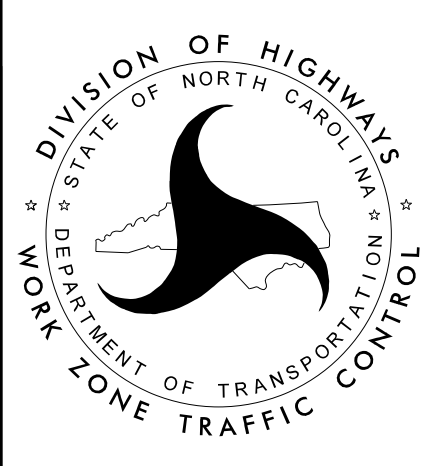
## PAVEMENT MARKING SYMBOLS

- PAVEMENT MARKING SYMBOLS

## TEMPORARY PAVEMENT MARKING

- CA-IV COLD APPLIED PLASTIC - YELLOW DOUBLE CENTER - (4")
- PA PAINT - WHITE EDGELINE - (4")
- PB PAINT - YELLOW EDGELINE - (4")
- PC PAINT - 10 FT. WHITE SKIP - (4")
- PD PAINT - 3 FT. WHITE MINISKIP - (4")
- PE PAINT - WHITE SOLID LANE LINE - (4")
- PI PAINT - YELLOW DOUBLE CENTER - (4")
- PN PAINT - WHITE GORELINE - (8")
- PO PAINT - WHITE DIAGONAL - (8")
- PP PAINT - YELLOW DIAGONAL - (8")
- P2 PAINT - WHITE STOP BAR - (24")
- QA PAINT - LEFT TURN ARROW
- QB PAINT - RIGHT TURN ARROW
- QC PAINT - STRAIGHT ARROW
- QE PAINT - COMBO. RIGHT/STRAIGHT ARROW
- QI PAINT - ALPHANUMERIC CHARACTER

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APPROVED: <i>Lori D. Stouchko</i> <small>902280189181460...</small> DATE: 6/3/2016 		<h3>ROADWAY STANDARD DRAWINGS &amp; LEGEND</h3>
<b>DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED</b>		

# TRANSPORTATION OPERATIONS

## CONSTRUCTION

REPLACE EXISTING BRIDGE NO.22 AND ROADWAY APPROACHES, INCLUDING DRAINAGE, AND UTILITIES ON US 441(NORTH) BUS./NC 28(SOUTH) AS SHOWN IN THE CONSTRUCTION PLANS.

## TMP DESIGN PARAMETERS

UTILIZING TEMPORARY PAVEMENT MARKINGS, TRAFFIC CONTROL DEVICES, AND CHANGEABLE MESSAGE SIGNS, TRAFFIC WILL BE DIVERTED FROM US 441 NORTH BUS. TO US 441 SOUTH BUS. AS A TWO-WAY, TWO LANE TRAFFIC PATTERN FROM SR 1724 (BIG BEAR LANE) TO INTERSECTION OF US 441 BUS./NC 28 (SEE TMP-4). TRAFFIC WILL BE DIRECTED TO ALTERNATE ROUTES USING ALTERNATE SIGNING AND CHANGEABLE MESSAGE SIGNS DURING THE CONSTRUCTION PERIOD (SEE TMP-5).

## 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:

ROAD NAME	DAY AND TIME RESTRICTIONS
US 441 BUS.	MONDAY THRU FRIDAY 7:00 A.M. - 9:00 A.M. 4:00 P.M. - 6:00 P.M.

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

ROAD NAME
US 441 BUS.

### HOLIDAY

- FOR ANY UNEXPECTED OCCURRENCE THAT CREATES UNUSUALLY HIGH TRAFFIC VOLUMES, AS DIRECTED BY THE ENGINEER.
- FOR NEW YEAR'S, BETWEEN THE HOURS OF 7:00 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 7:00 A.M. THURSDAY TO 6:00 P.M. MONDAY.
- FOR MEMORIAL DAY, BETWEEN THE HOURS OF 7:00 A.M. FRIDAY TO 6:00 P.M. TUESDAY.
- FOR INDEPENDENCE DAY, BETWEEN THE HOURS OF 7:00 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 7:00 A.M. THE THURSDAY BEFORE INDEPENDENCE DAY AND 6:00 P.M. THE TUESDAY AFTER INDEPENDENCE DAY.
- FOR LABOR DAY, BETWEEN THE HOURS OF 7:00 A.M. FRIDAY TO 6:00 P.M. TUESDAY.
- FOR THANKSGIVING DAY, BETWEEN THE HOURS OF 7:00 A.M. TUESDAY TO 6:00 P.M. MONDAY.
- FOR CHRISTMAS, BETWEEN THE HOURS OF 7:00 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:

ROAD NAME	DAY AND TIME RESTRICTIONS	DURATION & OPERATION
US 441 BUS.	MONDAY THRU FRIDAY 7:00 A.M. - 9:00 A.M. 4:00 P.M. - 6:00 P.M.	15 MINUTES FOR TRAFFIC SHIFTS, PAVEMENT TIE-INS, PAVEMENT MARKING TIE-INS

### 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.

### 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 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.
- 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.
- COVER OR REMOVE ALL SIGNS AND DEVICES REQUIRED TO CLOSE THE ROAD WHEN ROAD CLOSURE IS NOT IN OPERATION.  
  
COVER OR REMOVE ALL SIGNS REQUIRED FOR THE OFF-SITE DETOUR WHEN THE DETOUR IS NOT IN OPERATION.
- ENSURE ALL NECESSARY SIGNING IS IN PLACE PRIOR TO ALTERING ANY TRAFFIC PATTERN.

### 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 RADIUS, 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 PERPENDICULAR TO THE EDGE OF TRAVELWAY ON 500 FT CENTERS WHEN UNOPENED LANES ARE CLOSED TO TRAFFIC.

### PAVEMENT MARKINGS AND MARKERS

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

ROAD NAME	MARKING	MARKER
US 441 BUS. (-L-&-Y1-)	PAINT	TEMPORARY
US 441 BUS. (-Y1-)	COLD APPLIED (IV)	TEMPORARY
SR 1724 (-Y3-)	PAINT	TEMPORARY

- PLACE ONE APPLICATION OF PAINT FOR TEMPORARY TRAFFIC PATTERNS. PLACE A SECOND APPLICATION OF PAINT SIX (6) MONTHS AFTER THE INITIAL APPLICATION AND EVERY SIX MONTHS AS DIRECTED BY THE ENGINEER.
- 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.
- INSTALL PAVEMENT MARKINGS AND PAVEMENT MARKERS ON THE FINAL SURFACE AS SHOWN IN FINAL PAVEMENT MARKING PLAN.
- TRACE THE PROPOSED MONOLITHIC ISLAND LOCATIONS WITH PROPER COLOR PAVEMENT MARKINGS PRIOR TO INSTALLATION. PLACE DRUMS TO DELINEATE ANY PROPOSED MONOLITHIC ISLANDS AFTER REMOVAL AND BEFORE INSTALLATIONS.

### MISCELLANEOUS

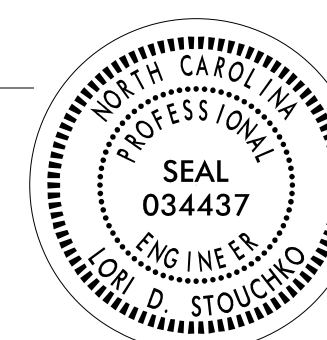
- LAW ENFORCEMENT MAY BE USED TO MAINTAIN TRAFFIC THROUGH THE WORK AREA AND/OR INTERSECTIONS AS DIRECTED BY THE ENGINEER.
- CONTRACTOR SHALL MAINTAIN SIDEWALK ACCESS AT ALL TIMES AS STATED IN THE PHASING. CONTRACTOR SHALL BE RESPONSIBLE TO PROVIDE TEMPORARY SIDEWALKS (CONCRETE, ASPHALT, OR OTHER SUITABLE MATERIAL AS APPROVED BY THE ENGINEER) AT ALL LOCATIONS WHERE THE OPEN PEDESTRIAN TRAVELWAY HAS BEEN REMOVED FOR CONSTRUCTION OPERATIONS (UTILITIES, DRAINAGE, ETC.).

## LOCAL NOTES

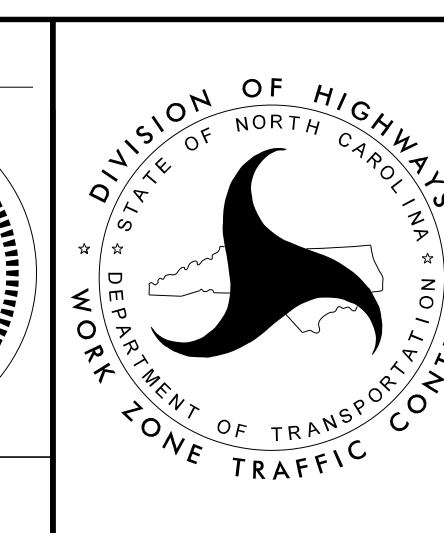
- ENSURE NCDOT DIVISION CONSTRUCTION PERSONNEL NOTIFY THE AGENCIES 30 DAYS PRIOR TO CONSTRUCTION:
  - ANGEL MEDICAL CENTER MANAGEMENT
  - MACON COUNTY EMERGENCY MANAGEMENT SERVICES (EMS).

APPROVED: Lori D. Stoucho  
902CB18918148C...

DATE: 6/3/2016



**DOCUMENT NOT CONSIDERED FINAL  
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**TRANSPORTATION  
OPERATIONS  
PLAN**

# TEMPORARY TRAFFIC CONTROL PHASING

NOTE: BEFORE BEGINNING CONSTRUCTION THE CONTRACTOR SHALL PLACE ADVANCE WORK ZONE WARNING SIGNS ALONG -L- LINE (US 441 BUS. NORTH\NC 28 SOUTH) AND -Y1- LINE (US 441 BUS. SOUTH\NC 28 NORTH), (SEE RSD 1101.01, SHEETS 2 & 3 OF 3)

## PHASE I

- STEP 1. USING RSD 1101.02 (SHEET 1 AND 3 OF 15), CONSTRUCT CURB AND GUTTER, REMOVE CONCRETE ISLAND, AND PAVE/WEDGE AS FOLLOWS (SEE TMP-3):  
 STA. 11+00+/- -Y3- TO STA. 31+47+/- -Y1-  
 STA. 34+65+/- -Y1- TO STA. 36+42+/- -Y1-  
 - AWAY FROM TRAFFIC, CONSTRUCT UP TO BASE COURSE AS FOLLOWS (SEE TMP-3):  
 STA. 10+53+/- -DRWY- TO STA. 12+83+/- -DRWY-
- STEP 2: USING TMP-4 AND ROADWAY STANDARD DRAWING NO. 1101.03, SHEET 2 OF 9, INSTALL ALL OFF-SITE DETOUR SIGNING (SEE TMP-4) AND COVER.

## ICT - 7 DAYS

CONTRACTOR SHALL WORK IN A CONTINUOUS MANNER TO COMPLETE THE FOLLOWING IN PHASE I, STEPS 3 THRU 6 IN 7 CALENDAR DAYS. (SEE INTERMEDIATE CONTRACT TIME AND SPECIAL PROVISIONS).

### ICT

CONTRACTOR SHALL WORK IN A CONTINUOUS MANNER TO COMPLETE THE FOLLOWING IN PHASE I, STEPS 3 THRU 5 FROM 11:00 P.M. TO THE FOLLOWING DAY AT 6:00 A.M. (SEE INTERMEDIATE CONTRACT TIME AND SPECIAL PROVISIONS).

- STEP 3: UNCOVER DETOUR SIGNING AND USE ROADWAY STANDARD DRAWING NO. 1101.03, SHEET 2 OF 9 AND 1101.02, SHEET 8 OF 15, TO CLOSE -Y1- (US 441 BUS. SOUTH/NC 28 NORTH) FROM STA. 31+50+/- -Y1- TO STA. 36+94+/- -Y1-.
- STEP 4: REHABILITATE AS MUCH OF EXISTING BRIDGE NO.349 AS CAN BE COMPLETED IN ONE WORK PERIOD. (SEE TMP-3, STRUCTURE PLANS, AND UTILITIES PLANS).
- STEP 5: REMOVE ALL TYPE III BARRICADES AND COVER DETOUR SIGNING. REOPEN -Y1- (US 441 BUS. SOUTH/NC 28 NORTH) TO A 2-LANE, 1-WAY TRAFFIC PATTERN.
- STEP 6: REPEAT STEPS 3 THRU 5 TO COMPLETE REHABILITATION OF EXISTING BRIDGE NO.349. (SEE TMP-3, STRUCTURE PLANS, AND UTILITIES PLANS).  
 - ANCHOR PROPOSED 12" WATERLINE. (SEE TMP-3, STRUCTURE PLANS, AND UTILITIES PLANS).

- STEP 7. USING RSD 1101.02 (SHEET 1 AND 3 OF 15), REMOVE DETOUR SIGNING.
- STEP 8. USING RSD 1101.02 (SHEET 1 AND 3 OF 15), INSTALL ALL ALTERNATE ROUTE SIGNING FOR DIVERSION OF US 441 BUS. NORTH AND US 441 BUS. SOUTH AS SHOWN ON TMP-6 AND DIVERT THRU TRAFFIC TO TEMPORARY ALTERNATE ROUTE.

## PHASE II

- STEP 1. USING RSD 1101.02 (SHEET 1 AND 3 OF 15) AND FLAGGERS AS NEEDED TO COMPLETE THE FOLLOWING:
- CLOSE NC 28 NORTH LEFT TURN LANE TO TRAFFIC AS SHOWN ON TMP-5.
  - PLACE TEMPORARY PAVEMENT MARKINGS AND MARKERS ON -L-, -Y1-, -Y3-, AND ON US BUS. 441 SOUTH (NORTH OF INTERSECTION OF US 441 BUS. AND NC 28 AS SHOWN ON TMP-5).
  - INSTALL TEMPORARY SIGNING AND TYPE III BARRICADES AS SHOWN ON TMP-5.
  - ACTIVATE TEMPORARY SIGNALS, SEE SIGNAL PLANS.
  - CLOSE DRIVEWAY TO PARCEL 3 USING WATER FILLED BARRIER AS SHOWN ON TMP-7 AND OPEN -DRWY- TO TRAFFIC.
  - USING RSD 1101.03 (SHEET 1 OF 9), CLOSE US 441 BUS. NORTH FROM STA. 11+10+/- -L- TO STA. 15+65+/- -L- AND PLACE TRAFFIC INTO A TWO LANE, TWO-WAY PATTERN ON EXISTING US 441 BUS. SOUTH (-Y1-) AS SHOWN ON TMP-7.

## PHASE II

- STEP 2. AWAY FROM TRAFFIC, REMOVE EXISTING BRIDGE. CONSTRUCT NEW BRIDGE AND ROADWAY APPROACHES, CURB AND GUTTER, AND GUARDRAIL, UP TO EXISTING EDGE OF PAVEMENT AS FOLLOWS (SEE CONSTRUCTION PLANS AND TMP-7):  
 STA. 11+00+/- -L- TO STA. 16+75+/- -L-  
 - USING FLAGGERS WHEN NECESSARY, CONSTRUCT DRAINAGE AS SHOWN ON TMP-7.

## PHASE III

- STEP 1. USING RSD 1101.02 (SHEET 3 OF 15), PAVE UP TO BUT NOT INCLUDING THE FINAL LAYER OF SURFACE COURSE AS FOLLOWS (SEE CONSTRUCTION PLANS):  
 STA. 10+50+/- -L- TO STA. 17+20+/- -L-  
 - USING RSD 1101.02 (SHEET 3 OF 15), PLACE TEMPORARY PAVEMENT MARKINGS AND MARKERS AS FOLLOWS (SEE TMP-8):  
 STA. 9+38+/- -L- TO STA. 17+10+/- -L-  
 - USING BARRICADES, CLOSE -Y3- (BIG BEAR LANE), SEE TMP-8.  
 - REMOVE ALL TYPE III BARRICADES, WATER FILLED BARRIER, AND ALTERNATE SIGNING ON US 441 NORTH BUS./NC 28 SOUTH AND REOPEN US 441 NORTH BUS./NC 28 SOUTH TO A 2-LANE, 1-WAY TRAFFIC PATTERN.  
 - REMOVE CHANGEABLE MESSAGE SIGNS ON US 441 NORTH/US 23 NORTH (SEE TMP-6).
- STEP 2. USING RSD 1101.02 (SHEET 3 OF 15), PAVE/WEDGE UP TO AND INCLUDING THE FINAL LAYER OF SURFACE COURSE AS FOLLOWS (SEE CONSTRUCTION PLANS):  
 STA. 30+00+/- -Y1- TO STA. 37+04+/- -Y1-  
 STA. 10+17+/- -Y3- TO STA. 11+74+/- -Y3-  
 - USING RSD 1101.02 (SHEET 3 OF 15), PLACE FINAL PAVEMENT MARKINGS AND MARKERS (SEE FINAL PAVEMENT MARKING PLAN).  
 STA. 30+00+/- -Y1- TO STA. 37+04+/- -Y1-  
 STA. 10+17+/- -Y3- TO STA. 11+74+/- -Y3-  
 US BUS. 441 SOUTH (NORTH OF INTERSECTION OF US 441 BUS. AND NC 28)  
 - REMOVE ALL TYPE III BARRICADES, ALTERNATE SIGNING, AND CHANGEABLE MESSAGE SIGNS ON US 441 SOUTH BUS./NC 28 NORTH AND REOPEN US 441 SOUTH BUS./NC 28 NORTH TO A 2-LANE, 1-WAY TRAFFIC PATTERN. REMOVE ALL TYPE III BARRICADES AND REOPEN SR 1724 (BIG BEAR LANE) TO A TWO-WAY, TWO LANE TRAFFIC.

## PHASE IV

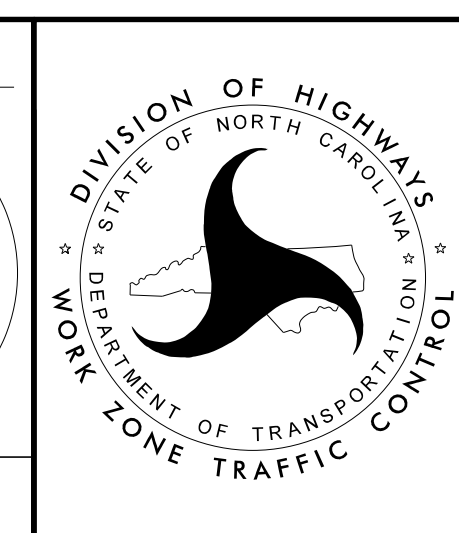
- STEP 1. USING RSD 1101.02 (SHEET 3 OF 15), CONSTRUCT MONOLITHIC CONCRETE MEDIAN (SEE CONSTRUCTION PLANS AND TMP-8).  
 - UNCOVER AND COMPLETE DRAINAGE INLET AS SHOWN ON TMP-8.
- STEP 2. USING RSD 1101.02 (SHEET 3 OF 15), PAVE/WEDGE THE FINAL LAYER OF SURFACE COURSE AS FOLLOWS (SEE CONSTRUCTION PLANS):  
 STA. 10+50+/- -L- TO STA. 17+20+/- -L-  
 - USING RSD 1101.02 (SHEET 3 OF 15), PLACE FINAL PAVEMENT MARKINGS AND MARKERS FOR -L- LINE (SEE FINAL PAVEMENT MARKING PLAN).  
 - REMOVE ALL TRAFFIC CONTROL DEVICES.

APPROVED: Lori D. Stoucho  
002CB018181818...

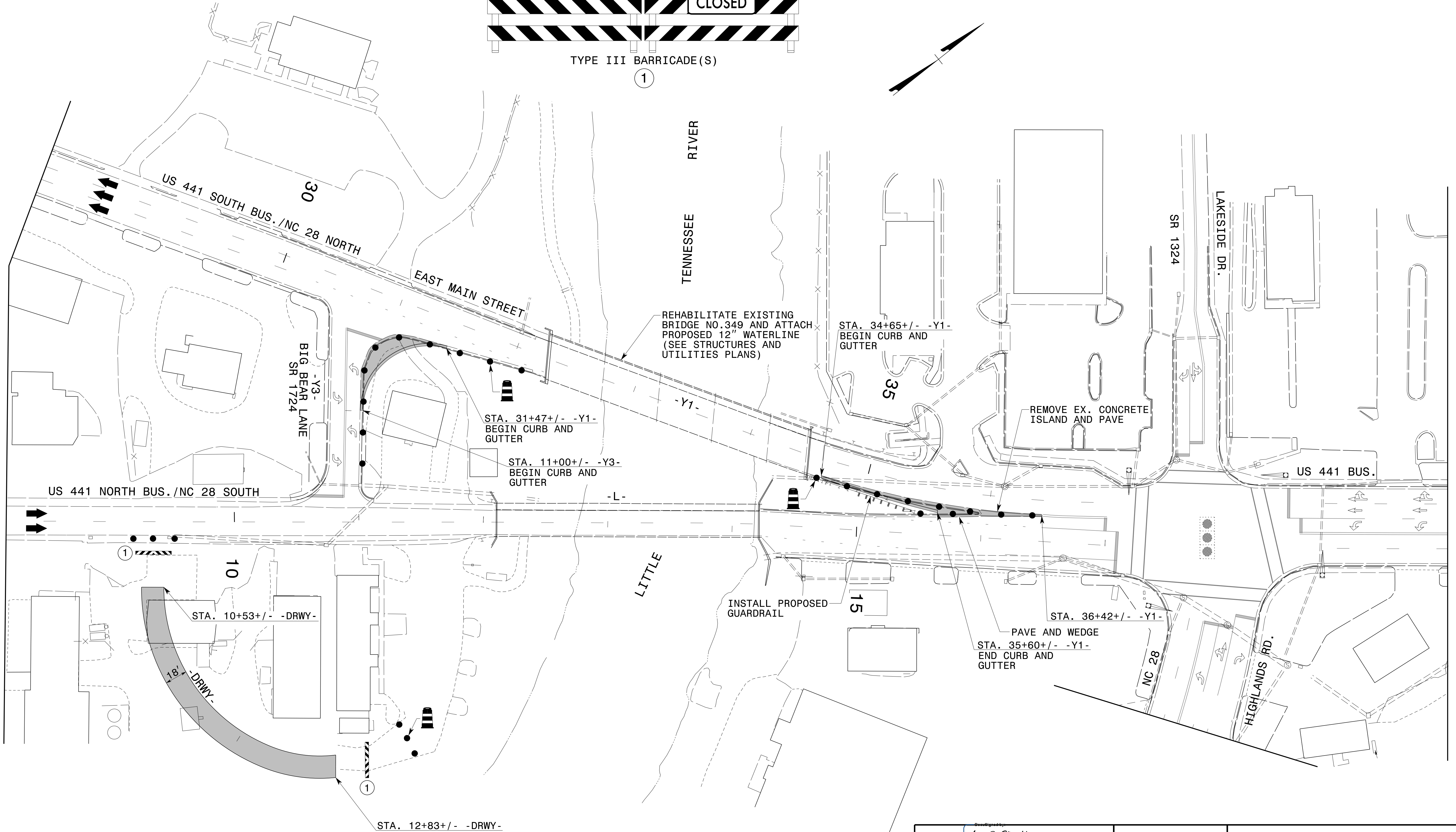
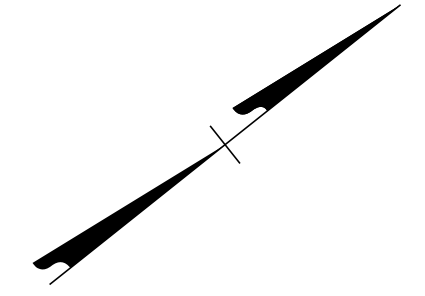
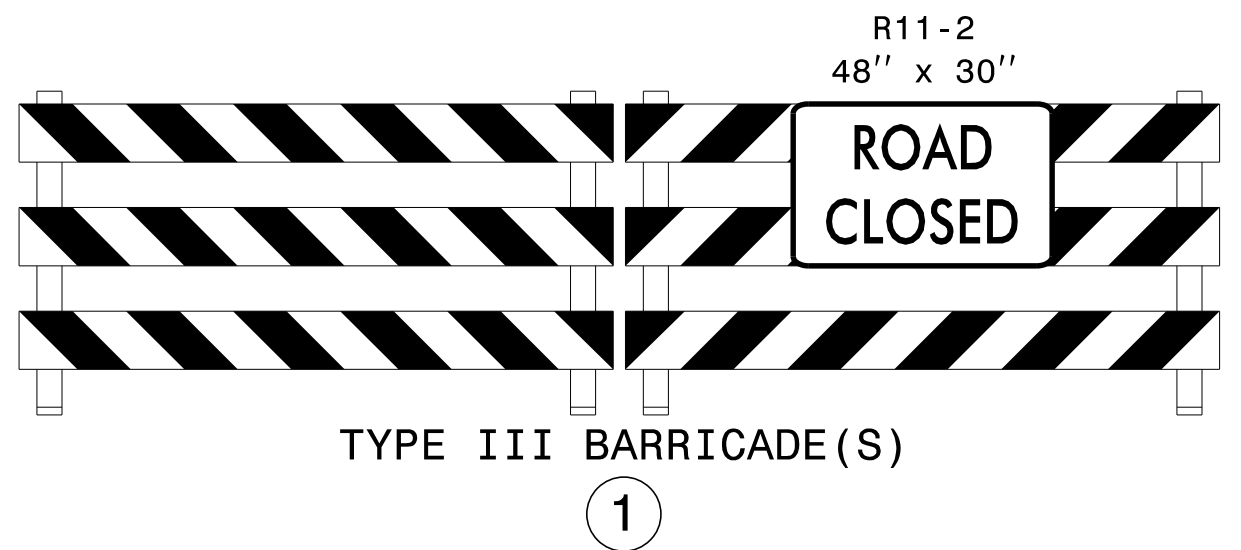
DATE: 6/3/2016

SEAL  
 034437  
 ENGINEER  
 LORI D. STOUCHO

DOCUMENT NOT CONSIDERED FINAL  
 UNLESS ALL SIGNATURES COMPLETED



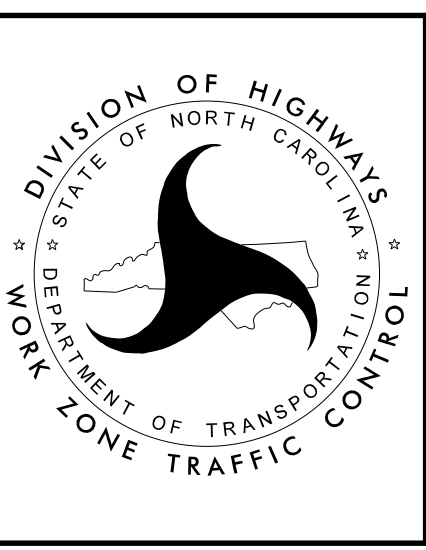
TEMPORARY TRAFFIC CONTROL PHASING



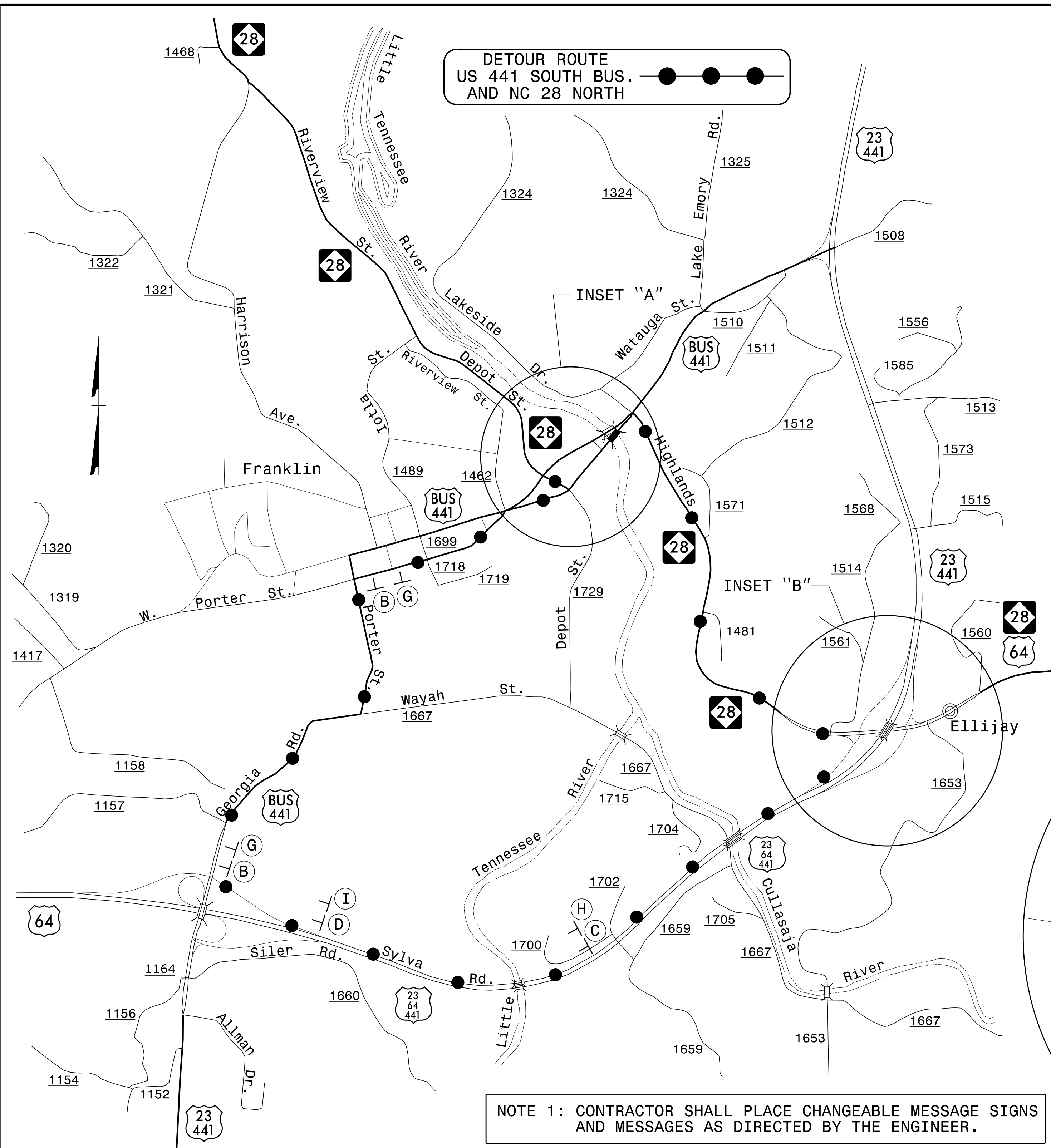
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APPROVED: *Lori D. Stoucho*  
DATE: 6/3/2016

**DOCUMENT NOT CONSIDERED FINAL  
UNLESS ALL SIGNATURES COMPLETED**

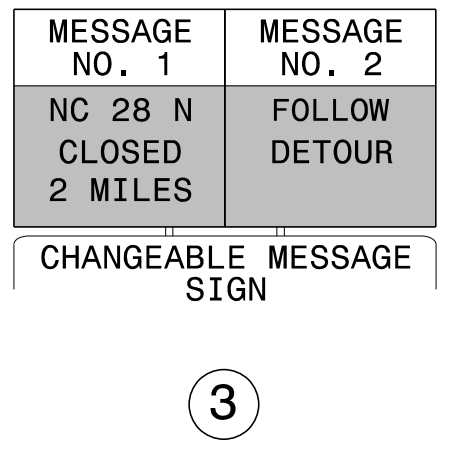
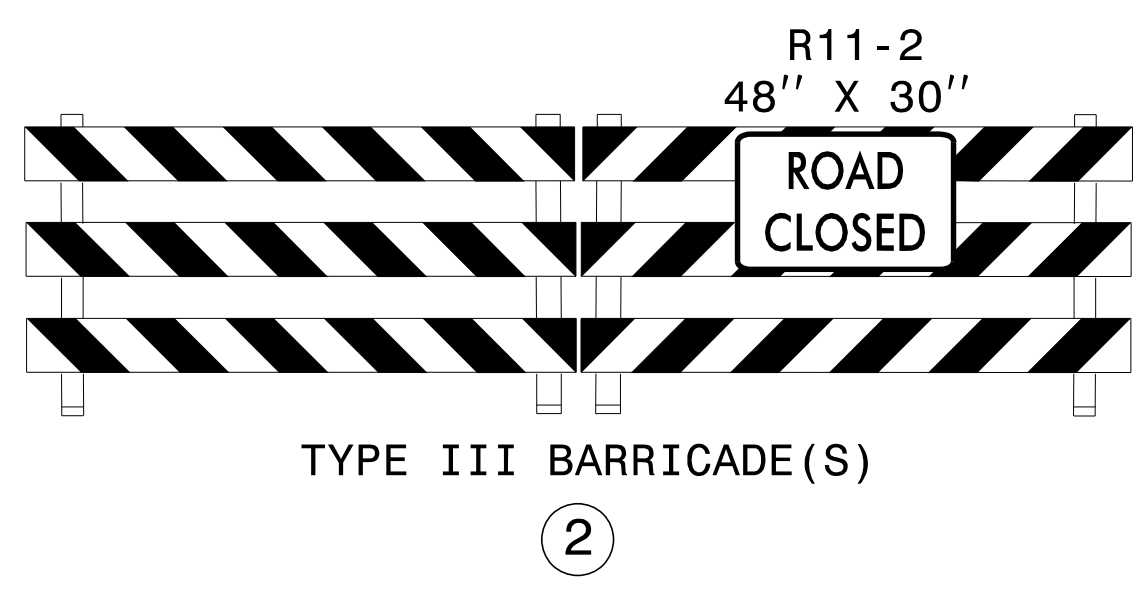
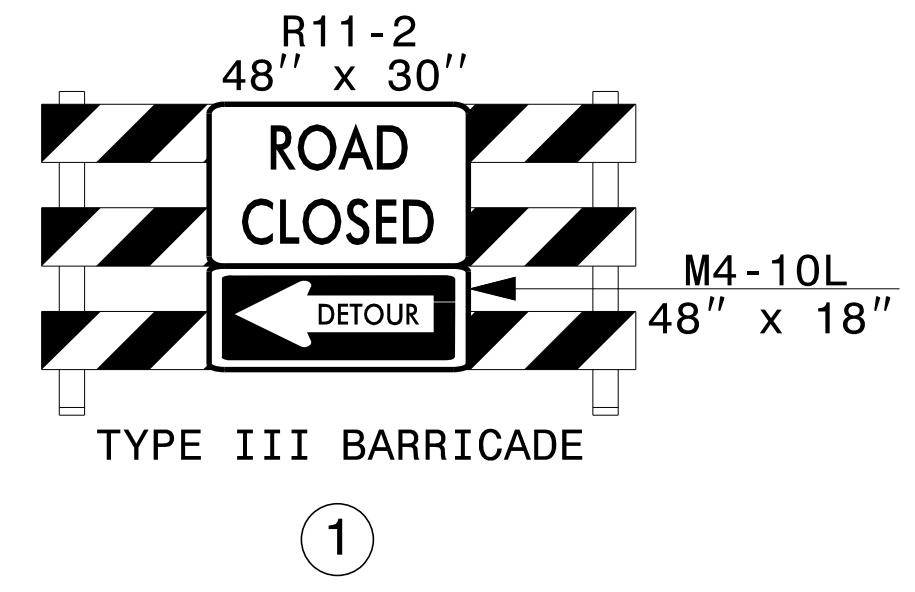
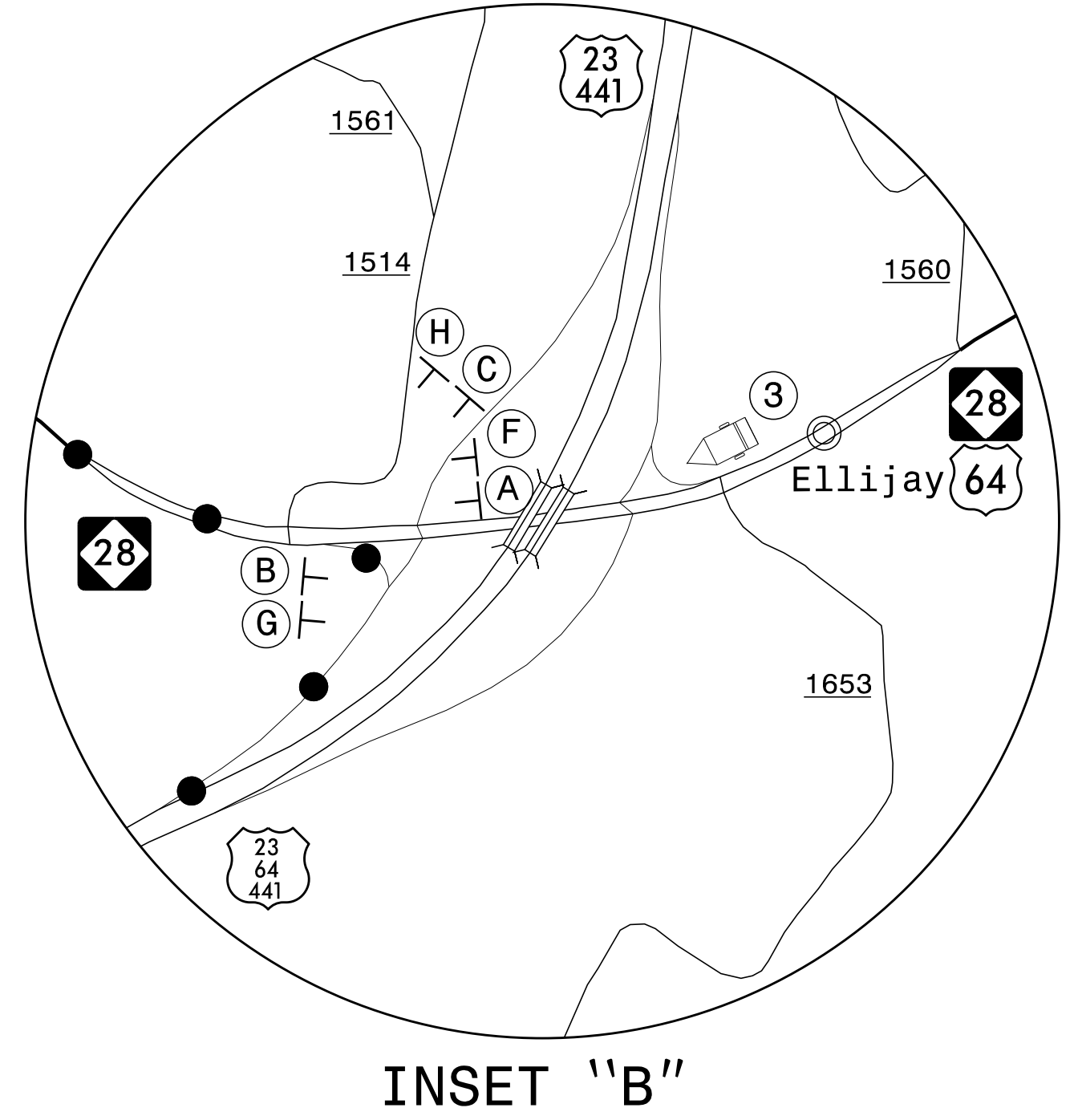
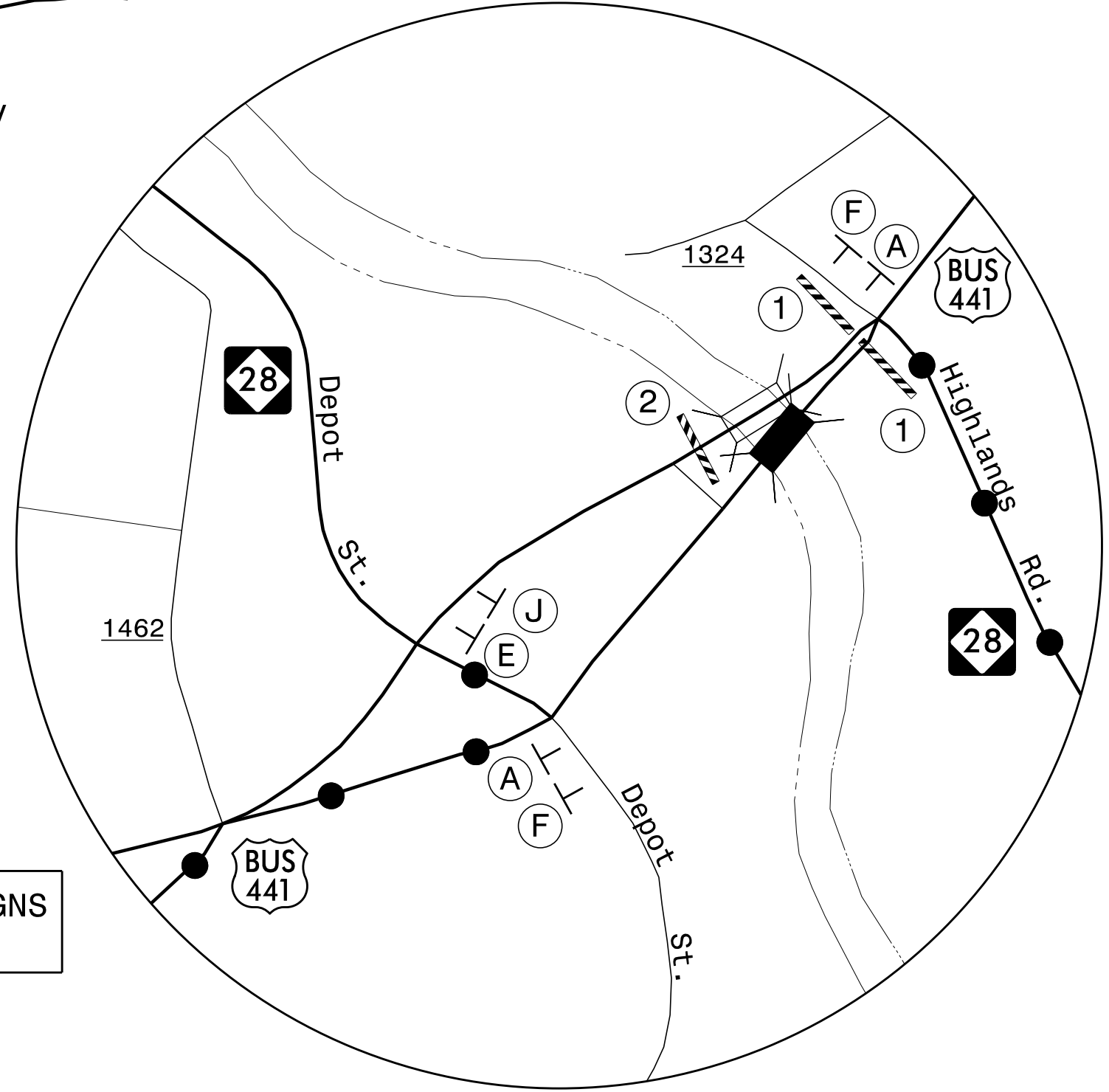
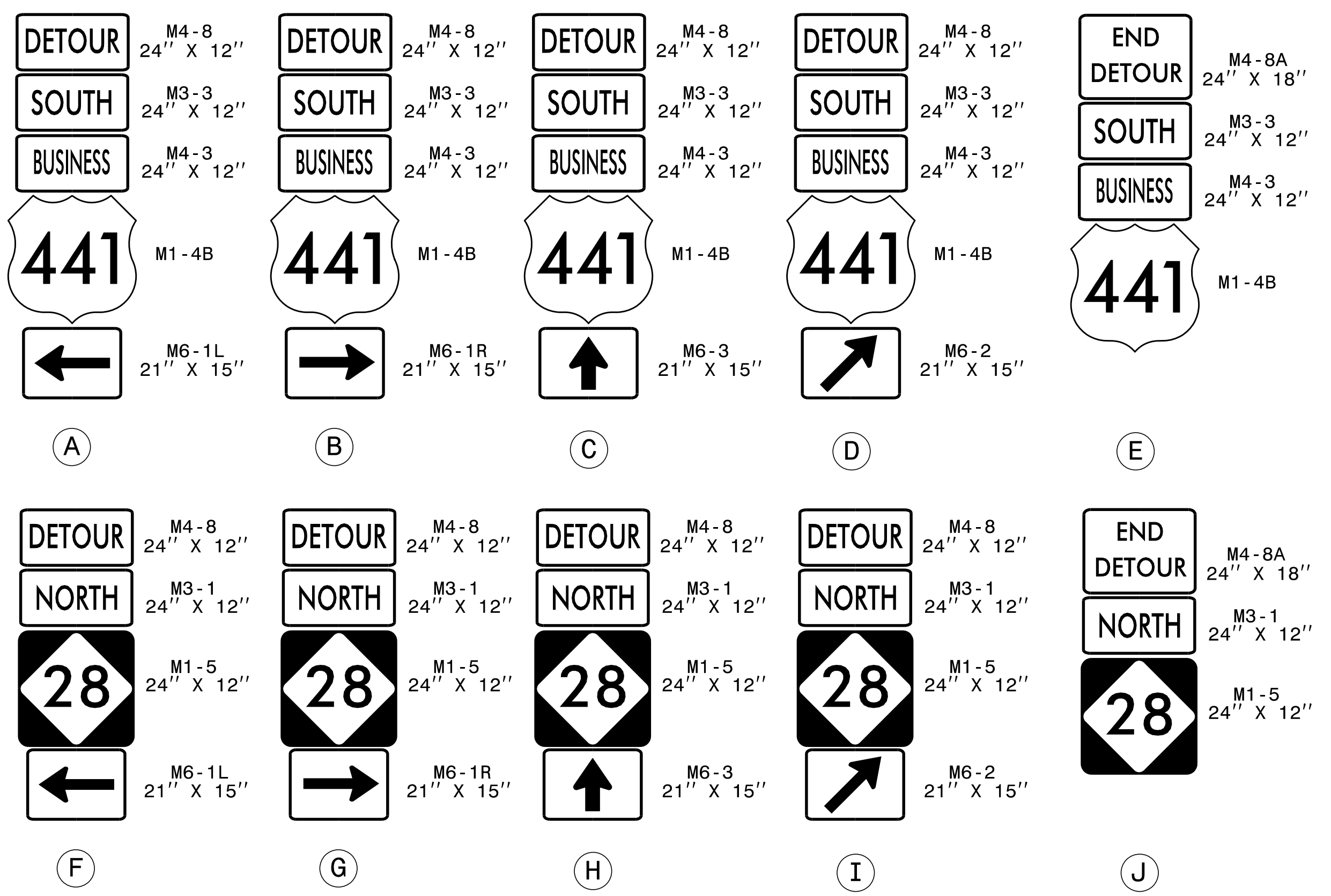


**PHASE I DETAILS**



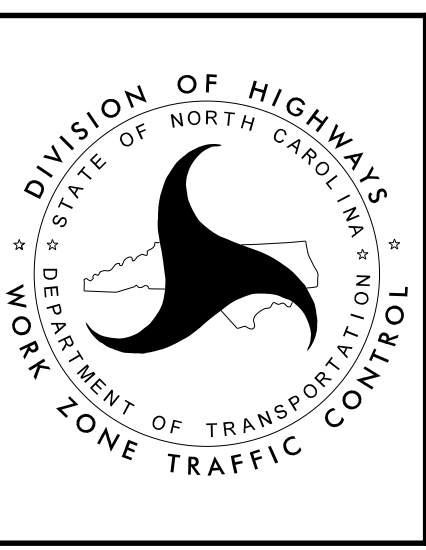
DETOUR ROUTE  
US 441 SOUTH BUS.  
AND NC 28 NORTH

NOTE 1: CONTRACTOR SHALL PLACE CHANGEABLE MESSAGE SIGNS AND MESSAGES AS DIRECTED BY THE ENGINEER.



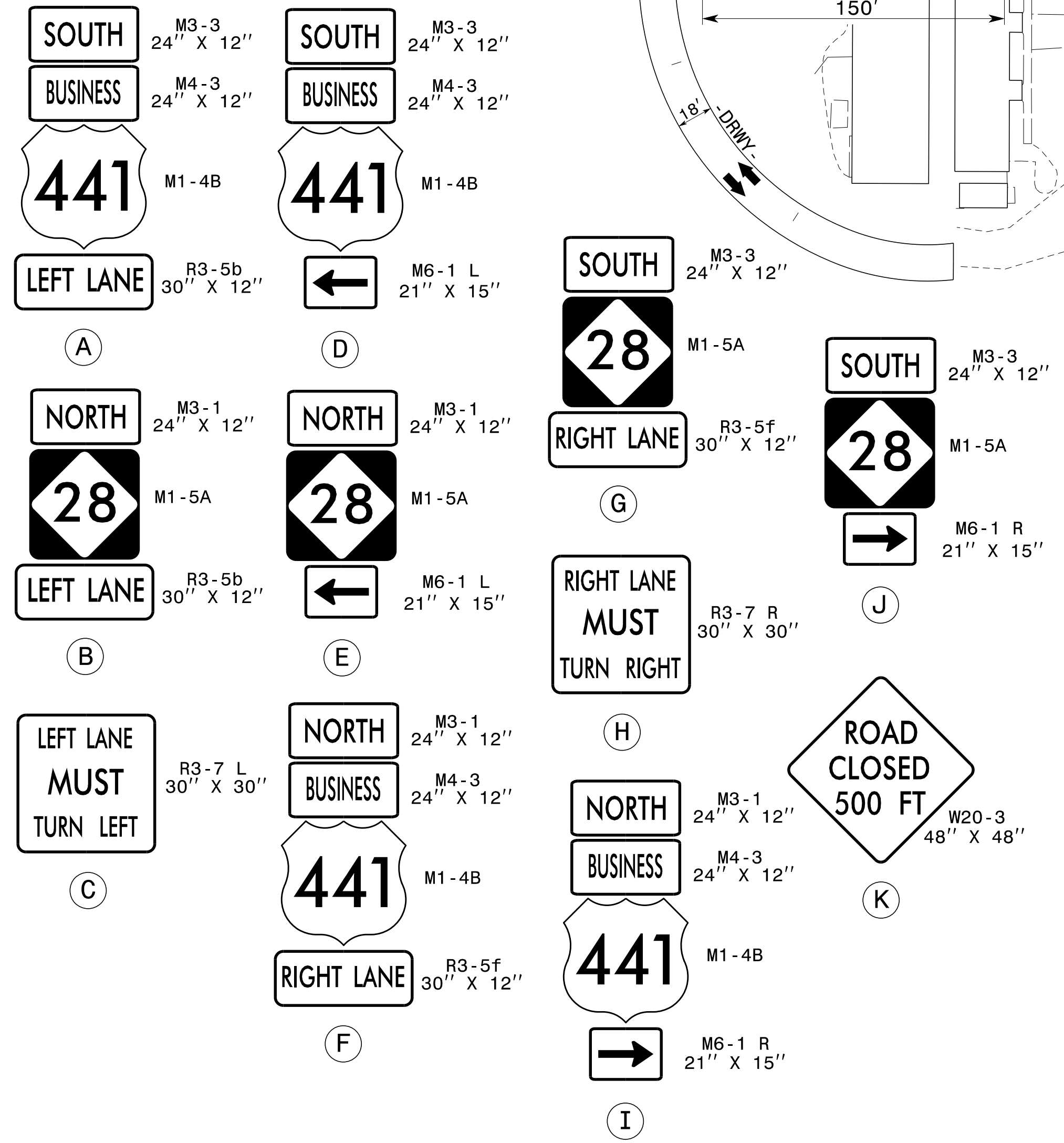
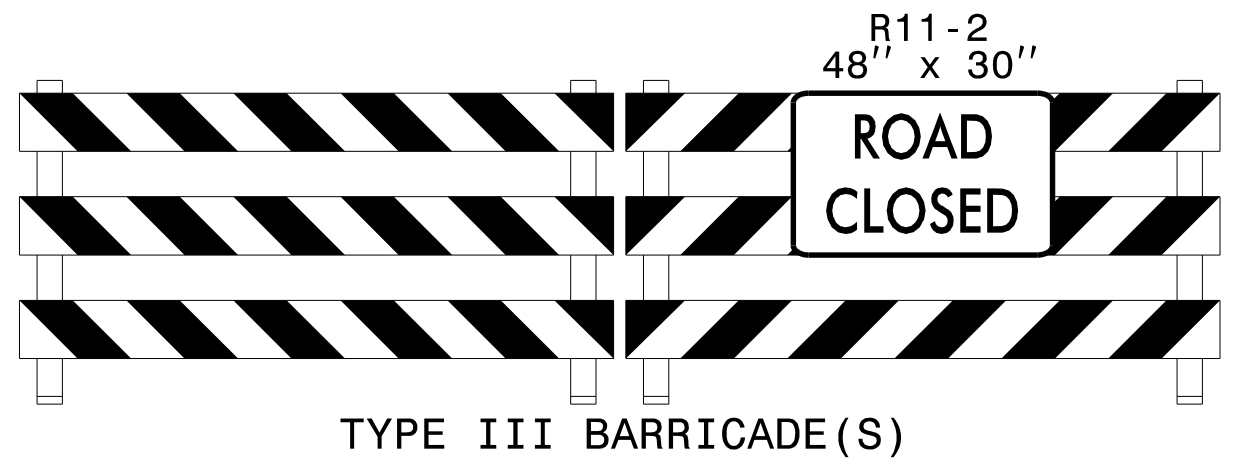
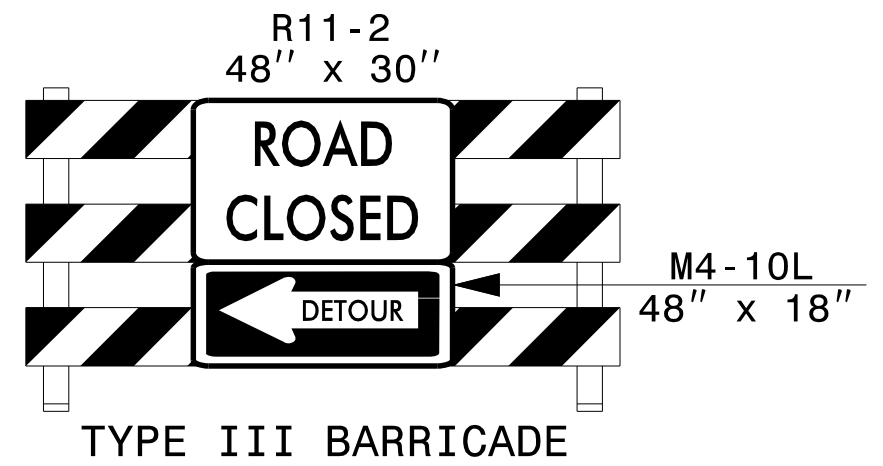
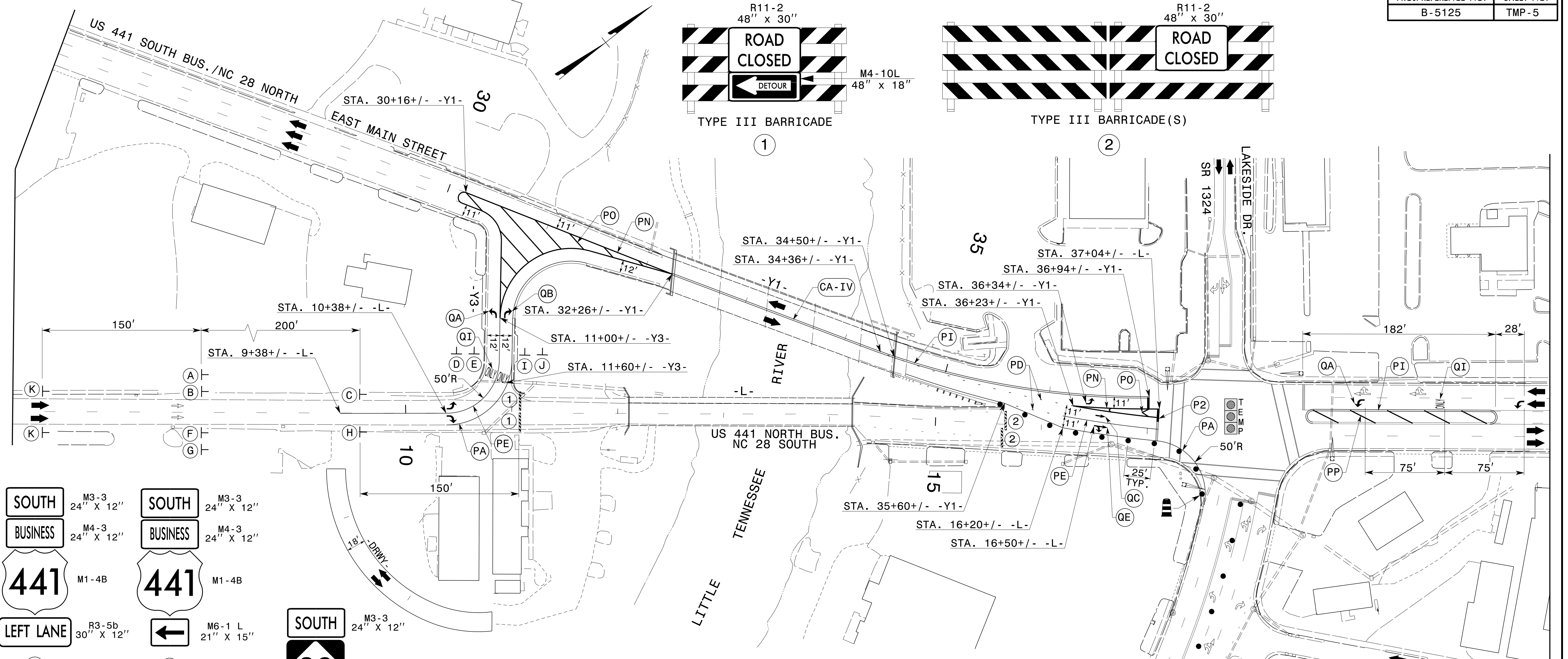
APPROVED: *Lori D. Stoucho*  
DATE: 6/3/2016

DOCUMENT NOT CONSIDERED FINAL  
UNLESS ALL SIGNATURES COMPLETED



PHASE I  
DETOUR ROUTE  
US 441 BUSINESS  
(SOUTH)  
AND NC 28  
(NORTH)

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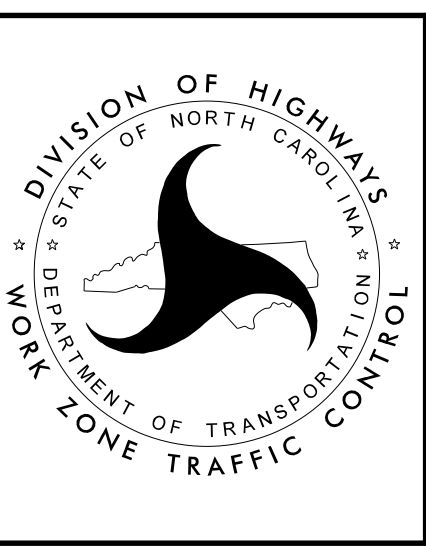
TEMPORARY PAVEMENT MARKING LEGEND	
(CI-IV)	COLD APPLIED PLASTIC - YELLOW DOUBLE CENTER - (4")
(PA)	PAINT - WHITE EDGELINE - (4")
(PD)	PAINT - 3 FT. WHITE MINISKIP - (4")
(PE)	PAINT - WHITE SOLID LANE LINE - (4")
(PI)	PAINT - YELLOW DOUBLE CENTER - (4")
(PN)	PAINT - WHITE GORELINE - (8")
(PO)	PAINT - WHITE DIAGONAL - (8")
(PP)	PAINT - YELLOW DIAGONAL - (8")
(P2)	PAINT - WHITE STOP BAR - (24")
(QA)	PAINT - LEFT TURN ARROW
(QB)	PAINT - RIGHT TURN ARROW
(QC)	PAINT - STRAIGHT ARROW
(QE)	PAINT - COMBO. RIGHT/STRAIGHT ARROW
(QI)	PAINT - ALPHANUMERIC CHARACTER

REFER TO RSD NOS. 1205.01, 1205.02, 1205.04, 1205.08, 1205.09, 1250.01, AND 1251.01 FOR PLACEMENT OF TEMPORARY PAVEMENT MARKINGS AND MARKERS UNLESS NOTED OTHERWISE.

APPROVED: *Lori D. Stouchko*  
002CB1818148C...

DATE: 6/3/2016

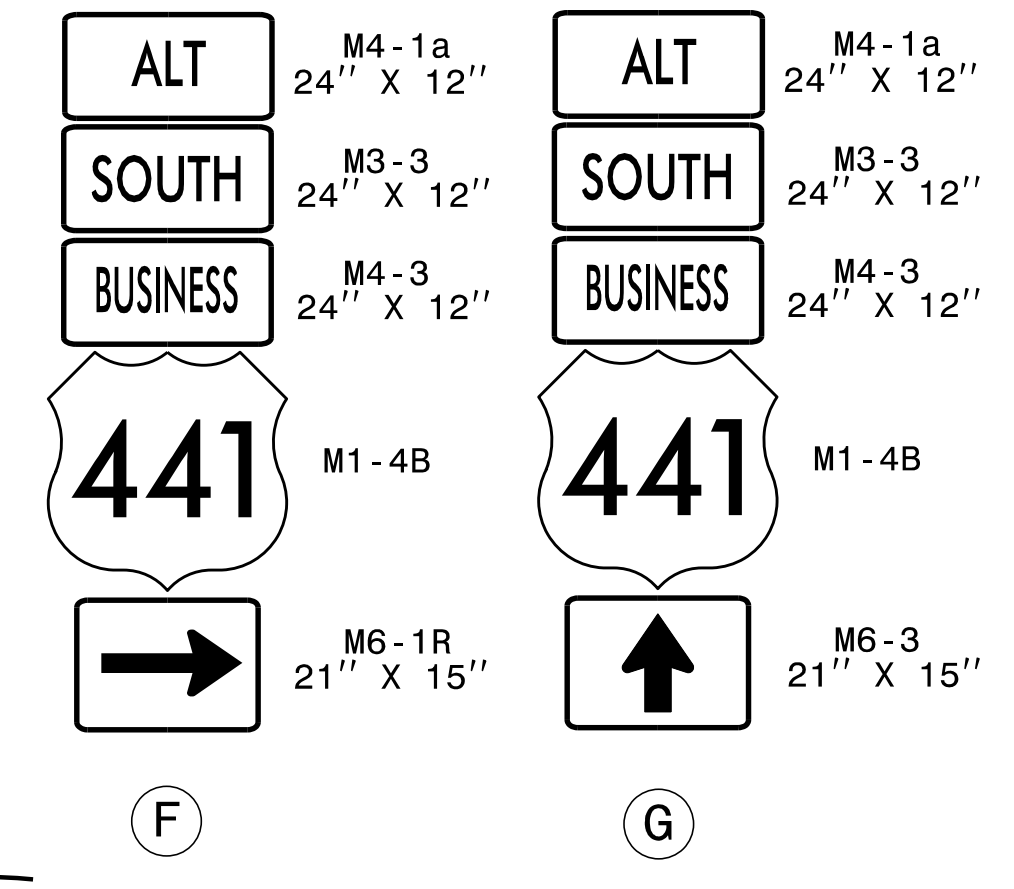
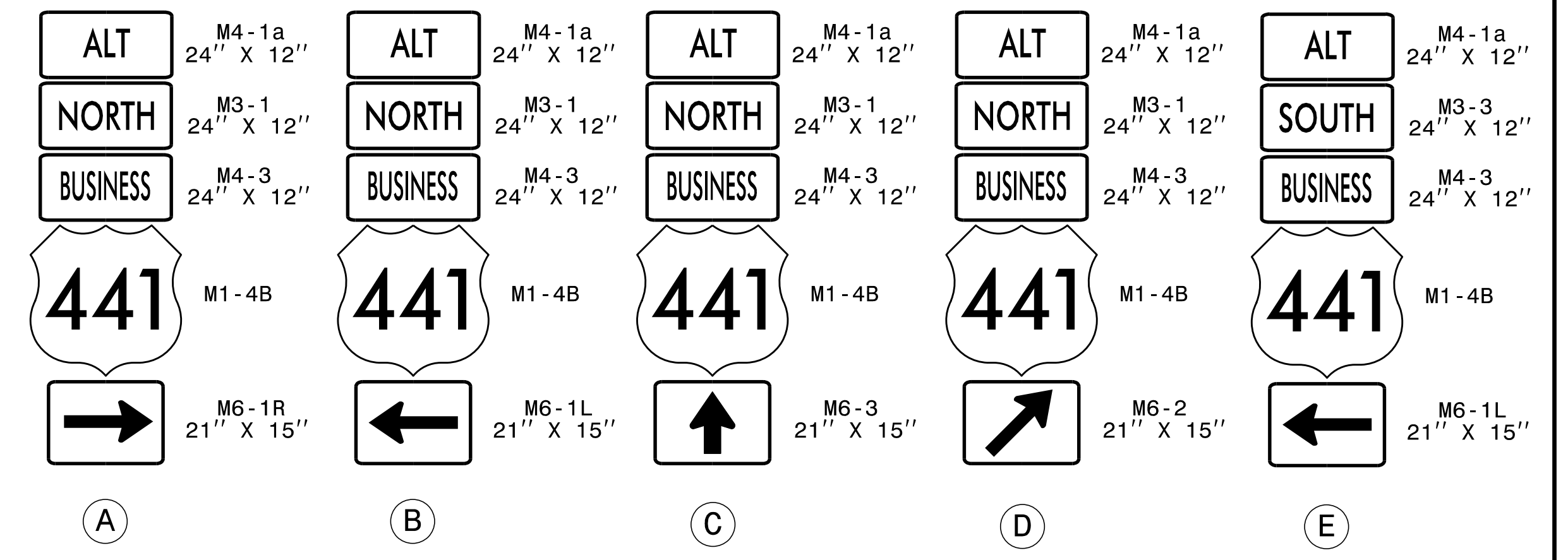
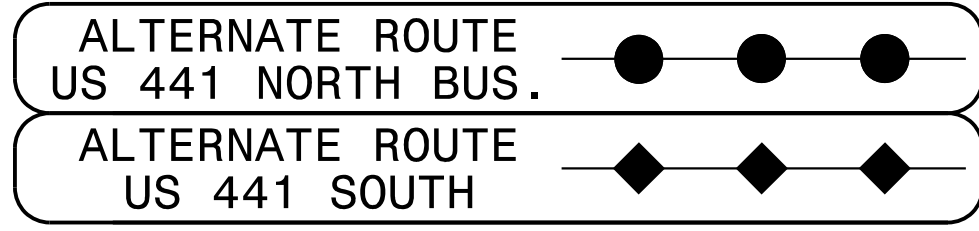
**DOCUMENT NOT CONSIDERED FINAL  
UNLESS ALL SIGNATURES COMPLETED**



**PHASE I  
TEMPORARY PAVEMENT  
MARKINGS AND  
TEMPORARY SIGNING**

6/3/2016 p:\tpp\projects-b\5125\trafficcontrol\top\B5125\_TC\_PHL\_TMP05.dgn User:scodts





NOTE 1: ALT(M4-1a) SIGN SHALL BE BLACK ON ORANGE.

MESSAGE NO. 1 BRIDGE CLOSED DOWNTOWN	MESSAGE NO. 2 US 441 BUSINESS NORTH	MESSAGE NO. 1 ALT ROUTE AHEAD	MESSAGE NO. 2 US 441 BUSINESS NORTH	MESSAGE NO. 1 TRAFFIC CONG AHEAD	MESSAGE NO. 2 US 441 BUSINESS SOUTH	MESSAGE NO. 1 ALT ROUTE AHEAD	MESSAGE NO. 2 US 441 BUSINESS SOUTH
CHANGEABLE MESSAGE SIGN		CHANGEABLE MESSAGE SIGN		CHANGEABLE MESSAGE SIGN		CHANGEABLE MESSAGE SIGN	
(1)		(2)		(3)		(4)	

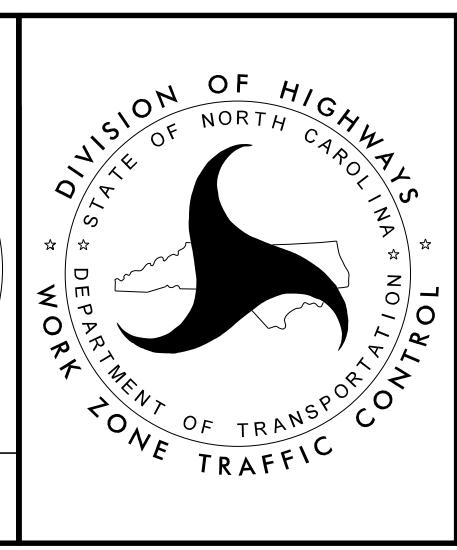
NOTE 2: SEE TMP-6 FOR ADDITIONAL TEMPORARY SIGNAGE, BARRICADES, AND TRAFFIC CONTROL DEVICES.

NOTE 3: CONTRACTOR SHALL PLACE CHANGEABLE MESSAGE SIGNS AND MESSAGES AS DIRECTED BY THE ENGINEER.

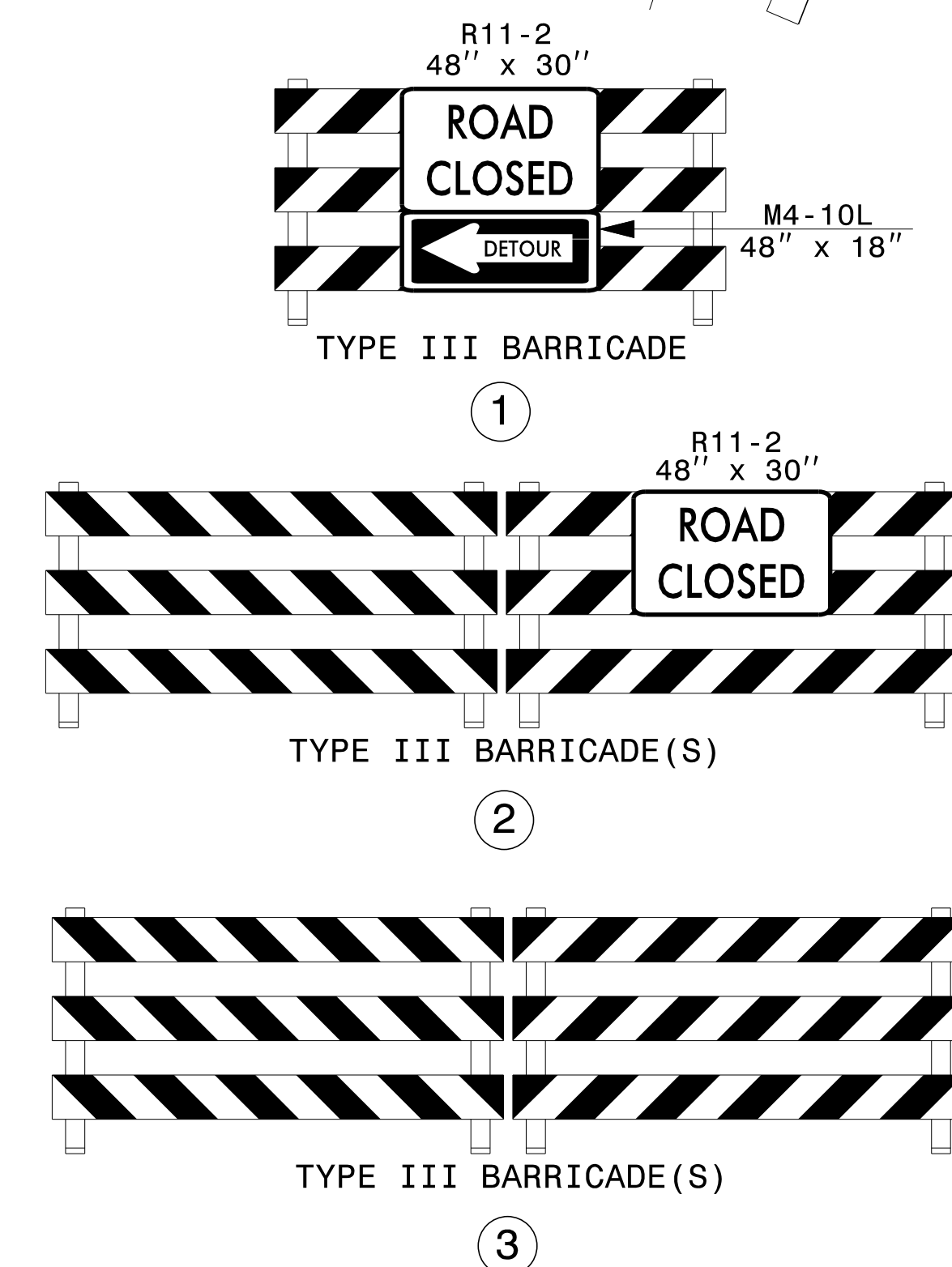
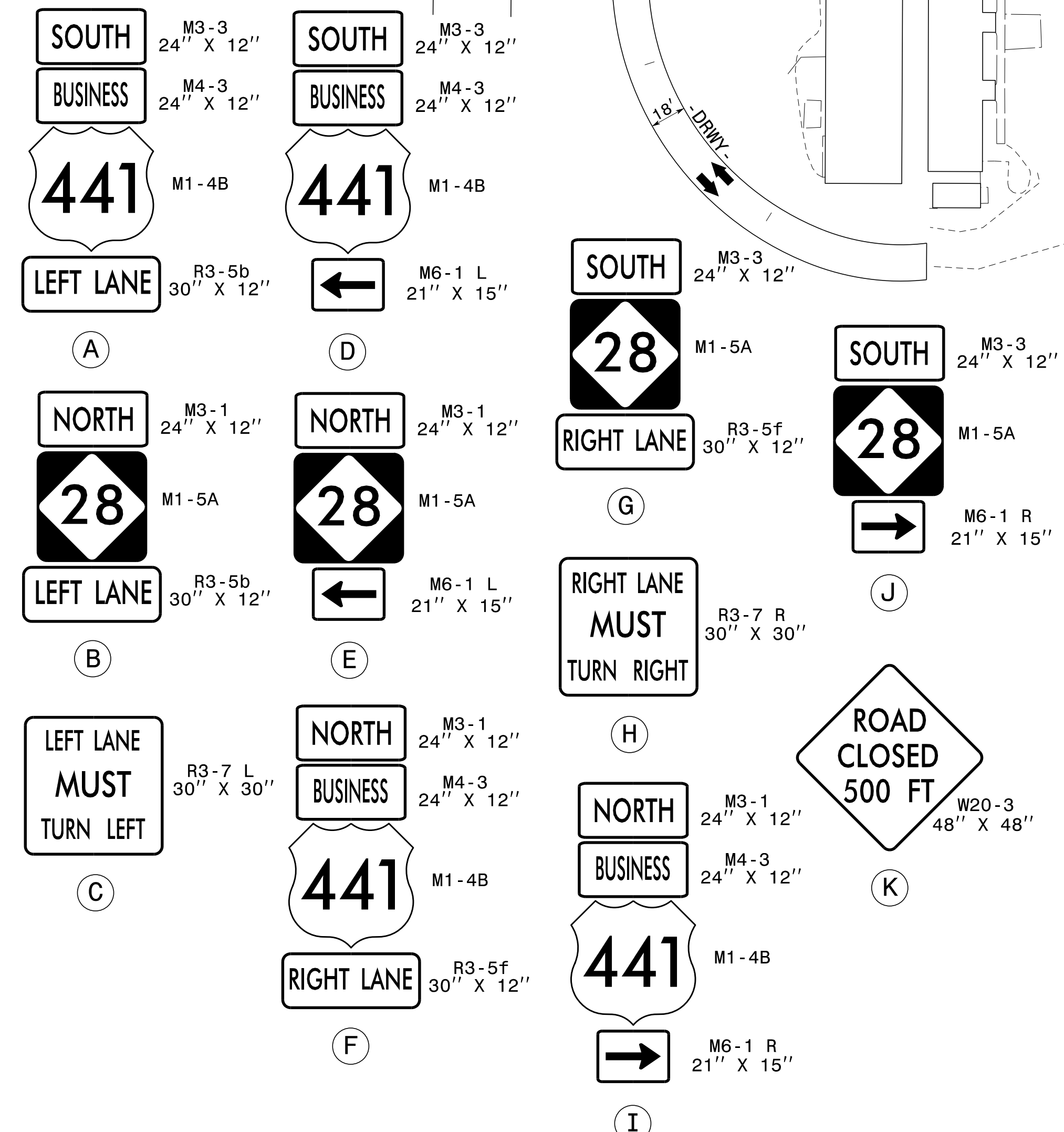
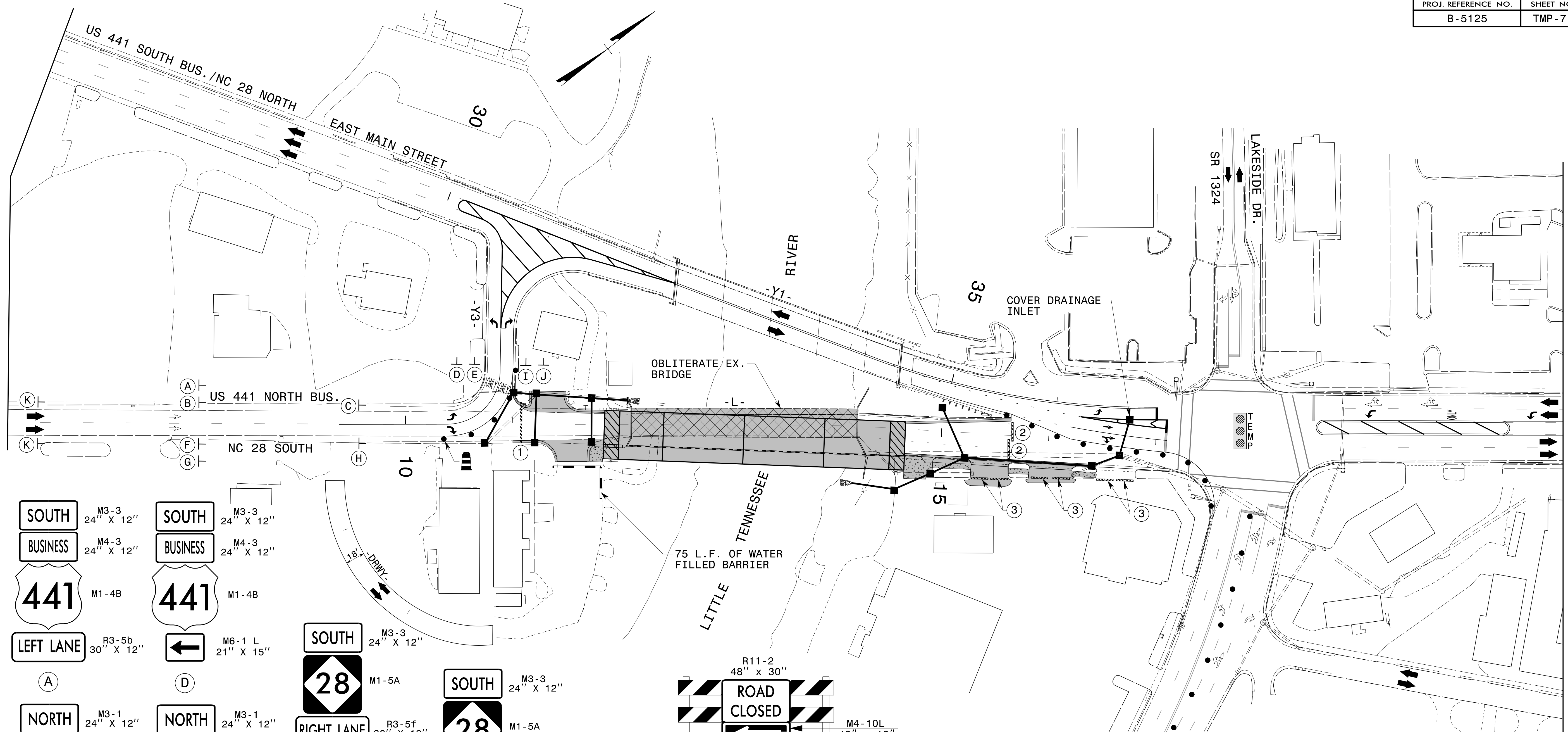
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APPROVED: *Lori D. Stoucho*  
DATE: 6/3/2016

DOCUMENT NOT CONSIDERED FINAL  
UNLESS ALL SIGNATURES COMPLETED

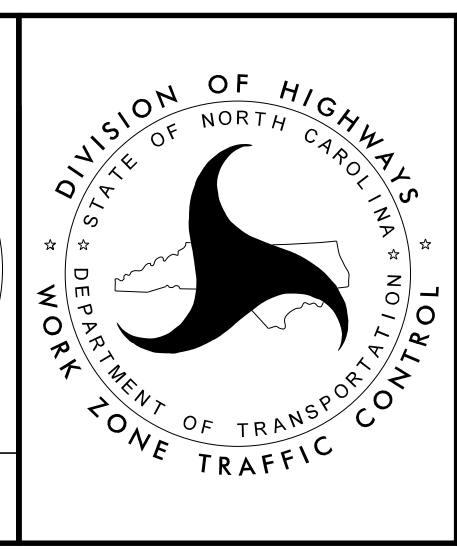


**PHASE II  
ALTERNATE ROUTES  
US 441 BUSINESS  
(NORTH)  
AND  
US 441 BUSINESS  
(SOUTH)**



APPROVED: *Lori D. Stouchko*  
002CB1818140C...  
DATE: 6/7/2016

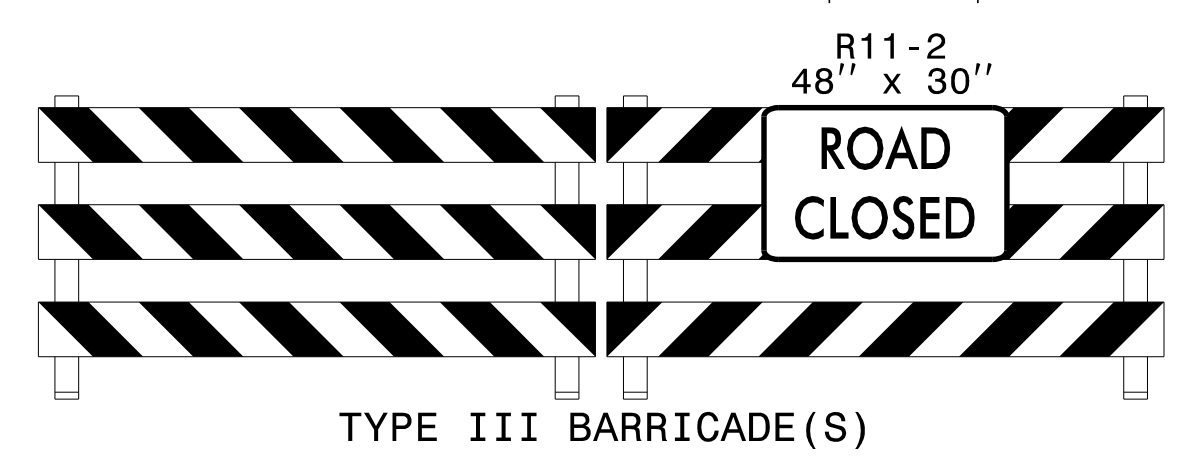
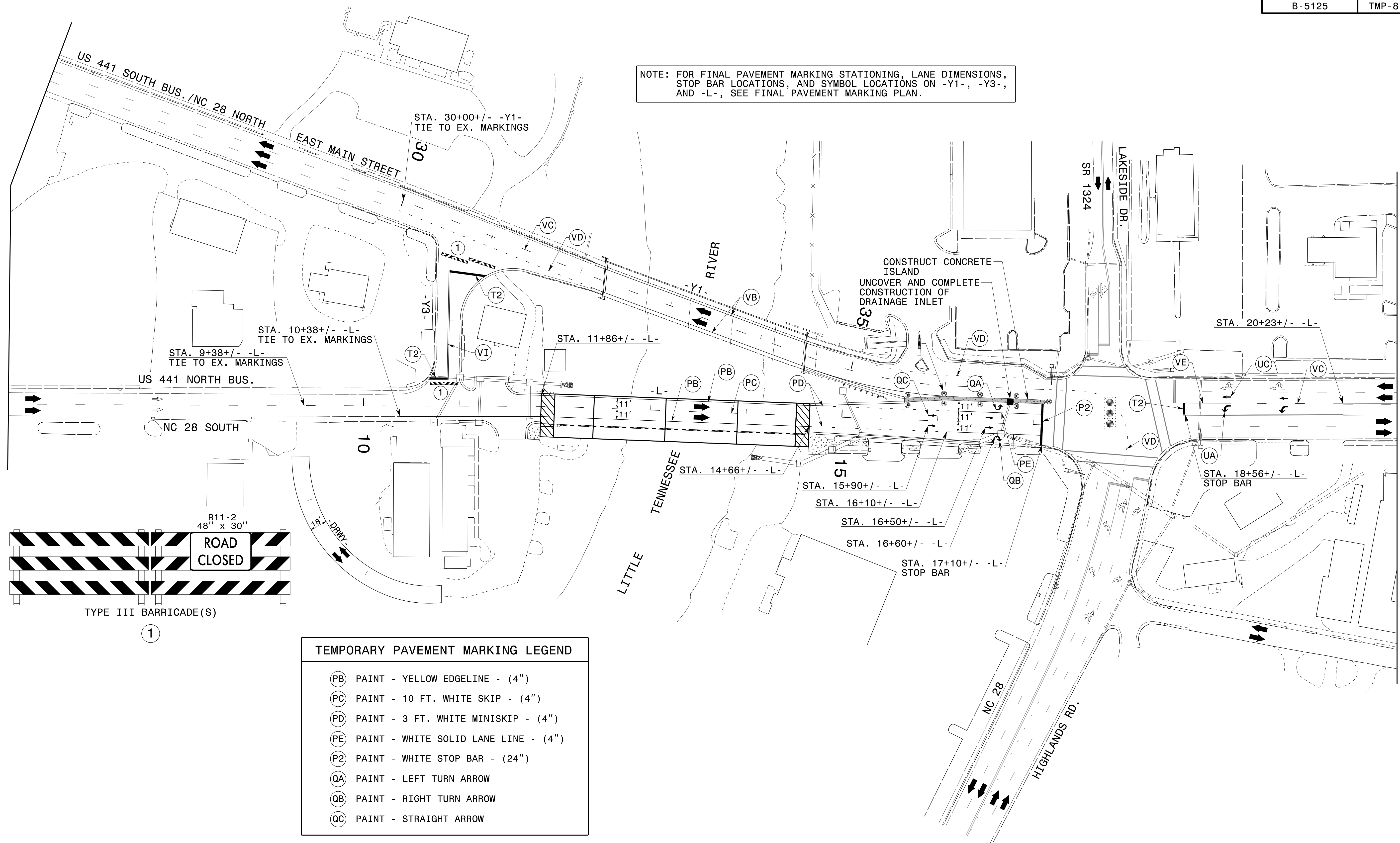
**DOCUMENT NOT CONSIDERED FINAL  
UNLESS ALL SIGNATURES COMPLETED**



**PHASE II DETAILS**

6/7/2016  
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User:scodts

NOTE: FOR FINAL PAVEMENT MARKING STATIONING, LANE DIMENSIONS, STOP BAR LOCATIONS, AND SYMBOL LOCATIONS ON -Y1-, -Y3-, AND -L-, SEE FINAL PAVEMENT MARKING PLAN.



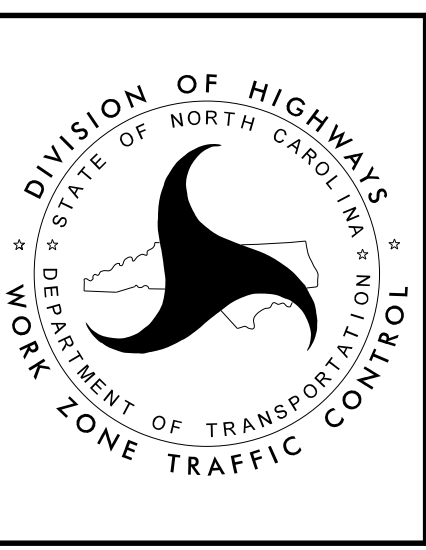
TEMPORARY PAVEMENT MARKING LEGEND	
(PB)	PAINT - YELLOW EDGELINE - (4")
(PC)	PAINT - 10 FT. WHITE SKIP - (4")
(PD)	PAINT - 3 FT. WHITE MINISKIP - (4")
(PE)	PAINT - WHITE SOLID LANE LINE - (4")
(P2)	PAINT - WHITE STOP BAR - (24")
(QA)	PAINT - LEFT TURN ARROW
(QB)	PAINT - RIGHT TURN ARROW
(QC)	PAINT - STRAIGHT ARROW

REFER TO RSD NOS. 1205.01, 1205.02, 1205.04, 1205.05, 1205.08, 1250.01, AND 1251.01 FOR PLACEMENT OF TEMPORARY PAVEMENT MARKINGS AND MARKERS UNLESS NOTED OTHERWISE.

APPROVED: *Lori D. Stoucho*  
902CB181918148C...

DATE: 6/3/2016

**DOCUMENT NOT CONSIDERED FINAL  
UNLESS ALL SIGNATURES COMPLETED**



**PHASE III DETAILS**

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