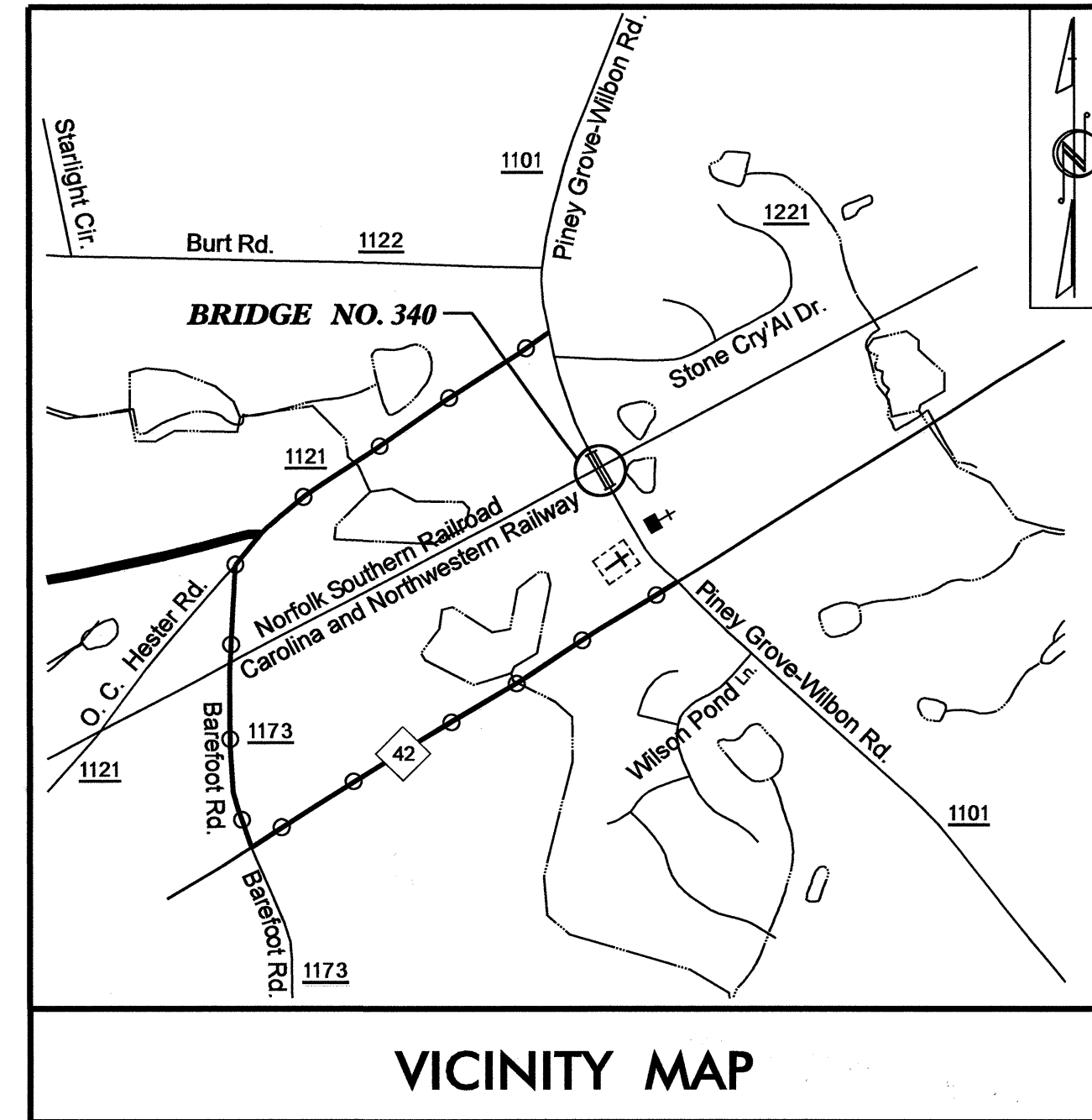
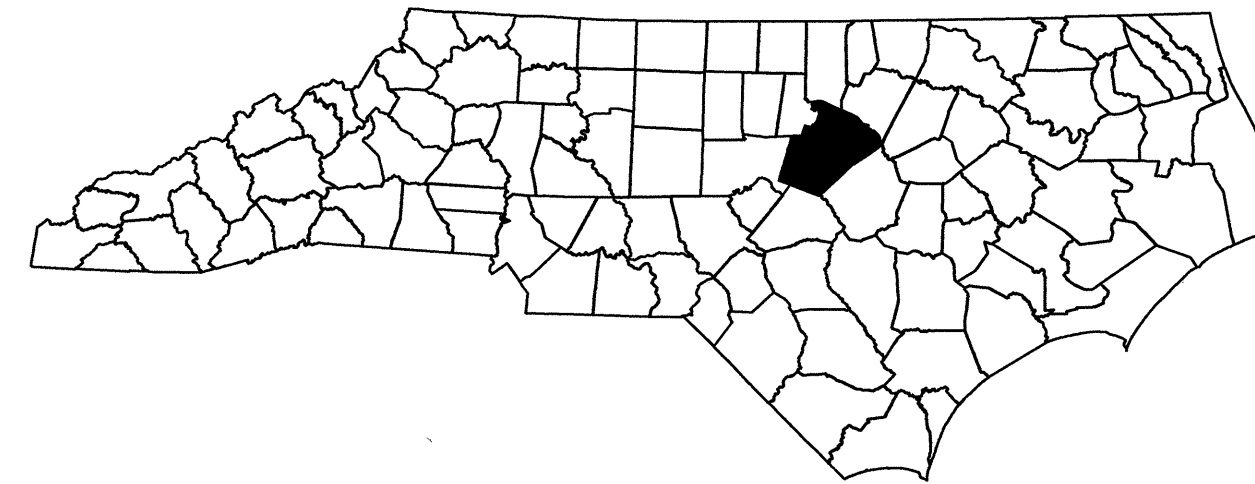


STATE OF NORTH CAROLINA  
DIVISION OF HIGHWAYS

**TRANSPORTATION MANAGEMENT PLAN**

**WAKE COUNTY**



**LOCATION: BRIDGE No. 340 OVER NORFOLK/SOUTHERN RAILROAD  
ON SR 1011 (PINEY GROVE-WILBON RD.)**

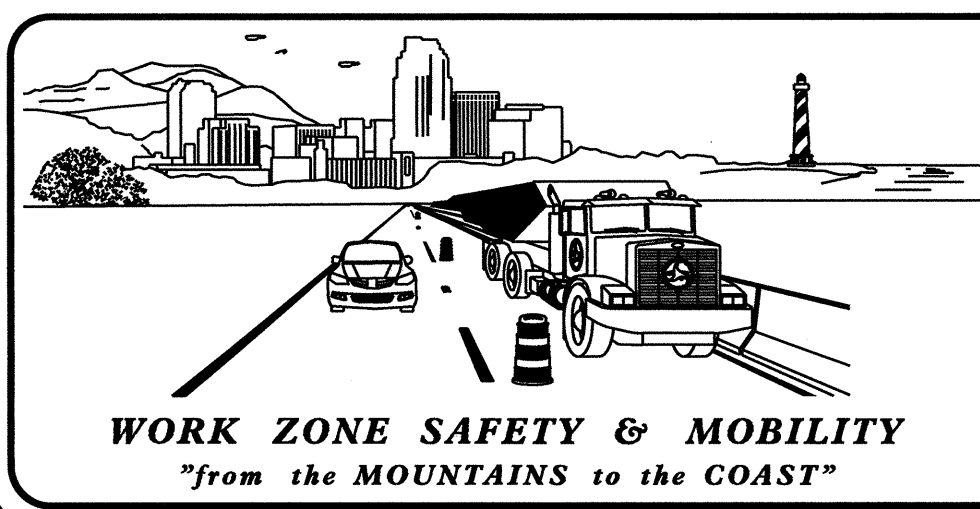
<b>INDEX OF SHEETS</b>	
<b>SHEET NO.</b>	<b>TITLE</b>
TMP-1	TITLE SHEET, AND INDEX OF SHEETS
TMP-1A	LIST OF APPLICABLE ROADWAY STANDARD DRAWINGS, LEGEND, AND TEMPORARY PAVEMENT MARKING
TMP-1B	TRANSPORTATION OPERATIONS AND PROJECT NOTES: GENERAL NOTES AND LOCAL NOTES
TMP-2A	DETAIL DRAWING FOR TWO-WAY UNDIVIDED ADVANCED WORK ZONE WARNING SIGNS
TMP-2B	DETOUR SIGN DETAILS
TMP-3	TEMPORARY TRAFFIC CONTROL PHASE I & DETAIL
TMP-4	TEMPORARY TRAFFIC CONTROL PHASE II & DETAIL

SHEET NO.  
TMP-1

**B-4657**

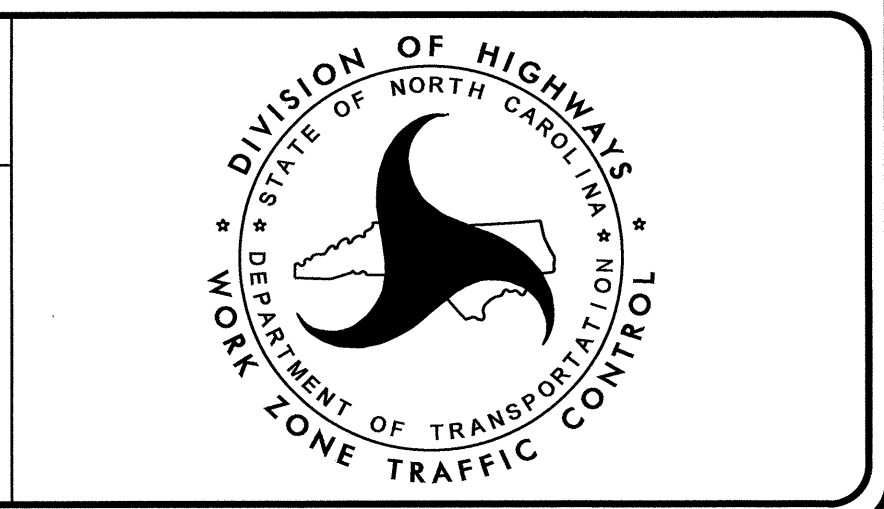
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sogreen AT TE24733



**N.C.D.O.T. WORK ZONE TRAFFIC CONTROL**  
1580 MAIL SERVICE CENTER (MSC) RALEIGH, NC 27699-1580  
1020 BIRCH RIDGE DRIVE, RALEIGH, NC 27610 (DELIVERY)  
PHONE: (919) 250-4094 FAX: (919) 250-4098

J. S. BOURNE, P.E. STATE TRAFFIC MANAGEMENT ENGINEER  
G. L. GETTIER, P.E. TRAFFIC CONTROL PROJECT ENGINEER  
J. W. GILSTRAP TRAFFIC CONTROL PROJECT DESIGN ENGINEER  
S. GREEN TRAFFIC CONTROL DESIGN ENGINEER



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

SEAL

# 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 JULY 2006 ARE APPLICABLE TO THIS PROJECT AND BY REFERENCE HEREBY ARE CONSIDERED A PART OF THESE PLANS:

STD. NO.	TITLE
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	DRUMS
1135.01	CONES
1145.01	BARRICADES
1150.01	FLAGGING DEVICES
1180.01	SKINNY-DRUM
1205.01	PAVEMENT MARKINGS - LINE TYPES & OFFSETS
1205.02	PAVEMENT MARKINGS - 2 LANE & MULTILANE ROADWAYS
1205.04	PAVEMENT MARKINGS - INTERSECTIONS
1250.01	PAVEMENT MARKER SPACING
1251.01	RAISED PAVEMENT MARKERS - (TEMPORARY & PERMANENT)

# LEGEND

## GENERAL

- DIRECTION OF TRAFFIC FLOW
- NORTH ARROW

## TRAFFIC CONTROL DEVICES

- BARRICADE (TYPE III)
- CONE
- DRUM    SKINNY DRUM    TUBULAR MARKER
- FLAGGER

## TEMPORARY SIGNING

- PORTABLE SIGN
- STATIONARY SIGN



## SIGNALS

- EXISTING
- PROPOSED
- TEMPORARY

## TEMPORARY PAVEMENT MARKING

- PAINT 4"
- PA WHITE EDGELINE
- PI YELLOW DOUBLE CENTER
  
- PAINT-24"
- P4 WHITE STOP BAR
  
- TEMPORARY MARKERS
- MH YELLOW & YELLOW

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<b>ROADWAY STANDARD DRAWINGS, LEGEND &amp; TEMPORARY PAVEMENT MARKING</b>			

# MANAGEMENT STRATEGIES

## CONSTRUCTION

REMOVE AND REPLACE EXISTING STRUCTURE AND APPROACH ROADWAYS ALONG THE EXISTING ROADWAY ALIGNMENT AS SHOWN IN THE CONSTRUCTION PLANS.

## TMP DESIGN PARAMETERS

TRAFFIC WILL BE DETOURED OFFSITE DURING THE CONSTRUCTION PERIOD.

A TEMPORARY TRAFFIC SIGNAL WILL NEED TO BE PLACED AT THE INTERSECTION OF SR 1173 (BAREFOOT RD) AND NC 42. (SEE SIGNAL PLANS AND TMP-3).

THE OFFSITE DETOUR WILL INCLUDE NC 42, SR 1173 (BAREFOOT RD) AND SR 1121 (O.C. HESTER RD.). (SEE SHEET TMP-4).

TRAFFIC WILL NEED TO BE MAINTAINED TO THE SIX EXISTING DRIVEWAYS LOCATED WITHIN THE PROJECT LIMITS. (SEE SHEET TMP-4).

# GENERAL NOTES / LOCAL 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.

## LANE AND SHOULDER CLOSURE REQUIREMENTS

- A) 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.
- B) 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.
- C) 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.

- D) 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.
- E) 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

- F) 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.

- G) 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) IN ADVANCE AND A MINIMUM OF EVERY HALF MILE THROUGHOUT THE UNEVEN AREA.

## TRAFFIC PATTERN ALTERATIONS

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

## SIGNING

- I) 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.
- J) PROVIDE PERMANENT SIGNING.
- K) 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.
- L) 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.

## SIGNING (CONT.)

- M) ENSURE ALL NECESSARY SIGNING IS IN PLACE PRIOR TO ALTERING ANY TRAFFIC PATTERN.

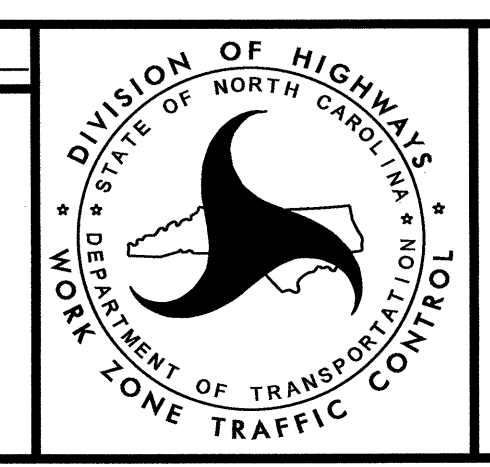
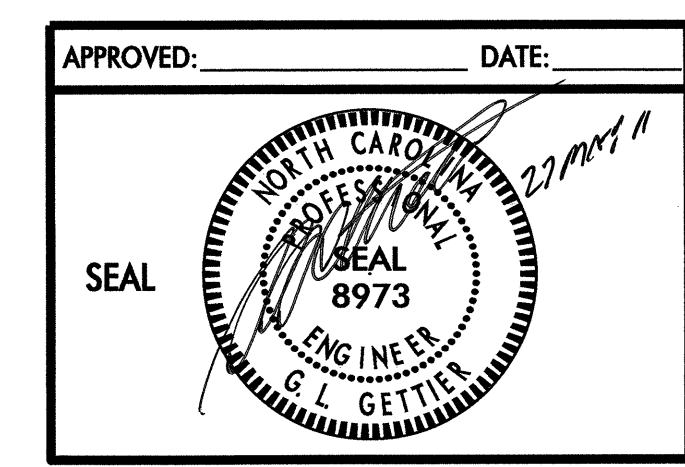
## TRAFFIC CONTROL DEVICES

- N) 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 WHEN LANE CLOSURES ARE NOT IN EFFECT. WHEN SKINNY DRUMS ARE ALLOWED REFER TO SECTION 1180 OF STANDARD SPECIFICATIONS FOR ROADS AND STRUCTURES OR AS SHOWN IN THE PLANS.
- O) PLACE TYPE III BARRICADES, WITH "ROAD CLOSED" SIGN R11-2 ATTACHED, OF SUFFICIENT LENGTH TO CLOSE ENTIRE ROADWAY.

## PAVEMENT MARKINGS AND MARKERS

- P) INSTALL PAVEMENT MARKINGS AND PAVEMENT MARKERS ON THE FINAL SURFACE AS SHOWN IN THE PAVEMENT MARKING PLAN.
  - Q) INSTALL TEMPORARY PAVEMENT MARKINGS AND TEMPORARY PAVEMENT MARKERS ON INTERIM LAYERS OF PAVEMENT AS FOLLOWS:
- | ROAD NAME   | MARKING | MARKER |
|-------------|---------|--------|
| BAREFOOT RD | PAINT   | RAISED |
- R) 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.
  - S) TIE PROPOSED PAVEMENT MARKING LINES TO EXISTING PAVEMENT MARKING LINES.
  - T) REMOVE/REPLACE ANY CONFLICTING/DAMAGED PAVEMENT MARKINGS AND MARKERS BY THE END OF EACH DAY'S OPERATION.

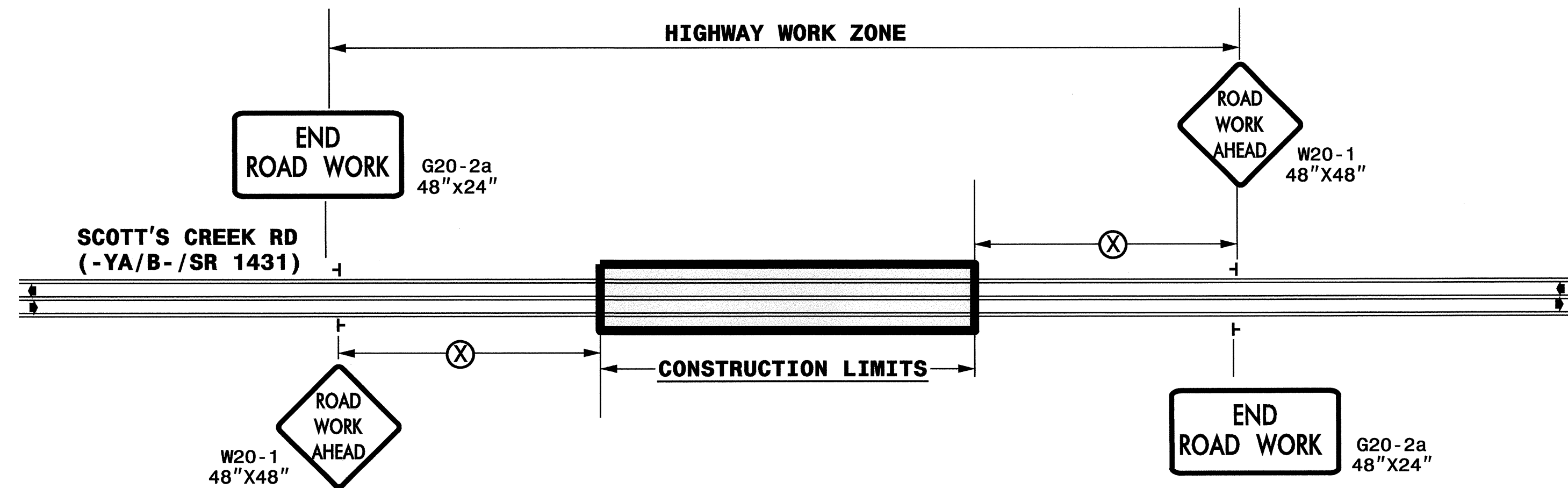
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**TRANSPORTATION OPERATIONS AND PROJECT NOTES**



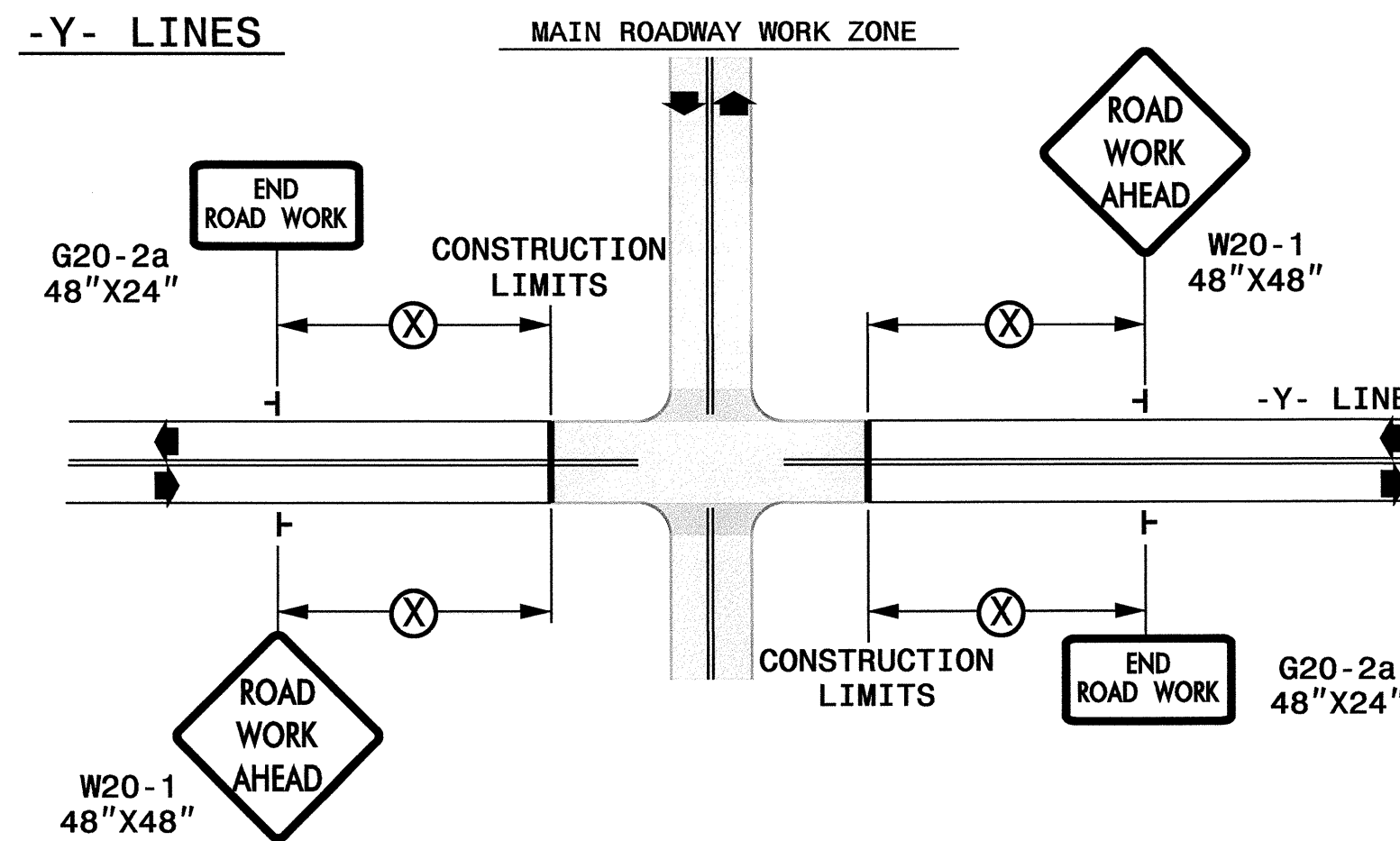
**TWO-WAY UNDIVIDED \*\* (L-LINES)**



POSTED SPEED LIMIT (M.P.H.)	RECOMMENDED MINIMUM SIGN SPACING
≤ 50	500'
≥ 55	1000'

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

**ROADWAYS INTERSECTING ALONG 2 WAY UNDIVIDED WORK ZONE (Y-LINES)**



DETAIL DRAWING FOR  
TWO-WAY UNDIVIDED  
WORK ZONE WARNING SIGNS

**GENERAL NOTES**

- USE FLUORESCENT ORANGE SHEETING (TYPE VII OR HIGHER) ON ALL ADVANCED WORK ZONE SIGNS.
- DO NOT INSTALL ADVANCE WARNING SIGNS MORE THAN 3 DAYS PRIOR TO BEGINNING OF WORK.
- SIGNS SHOWN ARE REQUIRED FOR WORK ZONES THAT WILL REMAIN IN EFFECT OVERNIGHT. FOR SHORT-TERM DAILY MAINTENANCE TYPE OPERATIONS, THIS SIGNING APPLICATION IS OPTIONAL; MAY USE ONLY APPLICABLE ROADWAY STANDARD DRAWINGS INSTEAD. HOWEVER, IF THIS SIGNING APPLICATION IS USED, SIGNS MAY BE PORTABLE MOUNTED.
- ALL SIGN SPACING DIMENSIONS ARE APPROXIMATE, FIELD ADJUST AS NECESSARY OR AS DIRECTED.
- USE 3LB STEEL U-CHANNEL POST OR 4" X 4" WOOD POST FOR ALL WORK ZONE SIGNS. 3LB STEEL U-CHANNEL POSTS MUST MEET THE REQUIREMENTS OF STANDARD SPECIFICATION SECTION 1094-1(B), MAY BE GALVANIZED STEEL, OR MAY BE PAINTED GREEN BY THE POST MANUFACTURER. SQUARE STEEL TUBING POSTS HAVING EQUIVALENT STRENGTH OF THE 3 LB STEEL U-CHANNEL POST ARE ALSO ACCEPTABLE FOR USE. ERECT SIGNS PER ROADWAY STANDARD DRAWING 1110.01. PAYMENT FOR WOOD POSTS, 3LB STEEL U-CHANNEL AND SQUARE STEEL TUBING POSTS WITH SIGNS WILL BE MADE ACCORDING TO STANDARD SPECIFICATION "WORK ZONE SIGNS" SECTION 1110.
- WHEN NECESSARY, USE SPLICING IN ACCORDANCE WITH ROADWAY STANDARD DRAWING NO. 1110.01. REMOVE ENTIRE POST WHEN REMOVING SIGNS WITH SPLICED POSTS.
- DO NOT BACK BRACE SIGN SUPPORTS.
- \*\* TWO-WAY UNDIVIDED ADVANCE WARNING SIGN CONFIGURATION MAY BE USED ON URBAN MULTI-LANE FACILITIES WHERE CONDITIONS LIMIT THE USE OF DUAL MOUNTED SIGNS AS DETERMINED BY THE ENGINEER.

**LEGEND**

- ┆ STATIONARY SIGN
- ◀ DIRECTION OF TRAFFIC FLOW

SHEET 1 OF 1

APPROVED:	DATE:	DETAIL DRAWING FOR TWO-WAY UNDIVIDED AND URBAN FREEWAYS ADVANCED WORK ZONE WARNING SIGNS	
	SCALE:	NONE	REVISIONS
	DATE:		7-98 10/01
	DWG. BY:		10-98 03/04
	DESIGN BY:		01/01 11/04
REVIEWED BY:			CADD FILE

06-MAY-2011 10:20 AM C:\dot\cfs\dot\TrafficControl\TCP\B4657-TC-TMP-2A.dgn

SIGN NUMBER: SP11242 TYPE: STATIONARY QUANTITY: SEE PLANS SIGN WIDTH: 4'-0" HEIGHT: 2'-0" TOTAL AREA: 8.0 Sq.Ft. BORDER TYPE: INSET RECESS: 0.75" WIDTH: 0.75" RADII: 3" NO. Z BARS: LENGTH:	BACKG COLOR: Fluorescent Orange COPY COLOR: Black SYMBOL X Y WID HT MAT'L: 0.080" (2.0 mm) ALUMINUM 0.079" COMPOSITE	DESIGN BY: S. Coleman PROJECT ID: I-4407	CHECKED BY: S. Kunz DIV: 5	DATE: Apr 13, 2011
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**BORDER 3.15" 41.7" 3.15"**  
**R=3"**  
**TH=0.75"**  
**IN=0.75"**

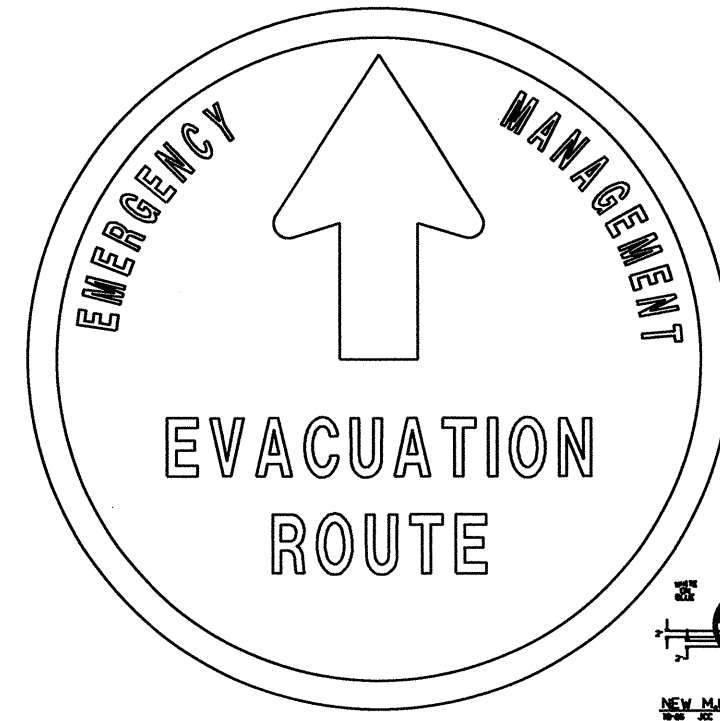
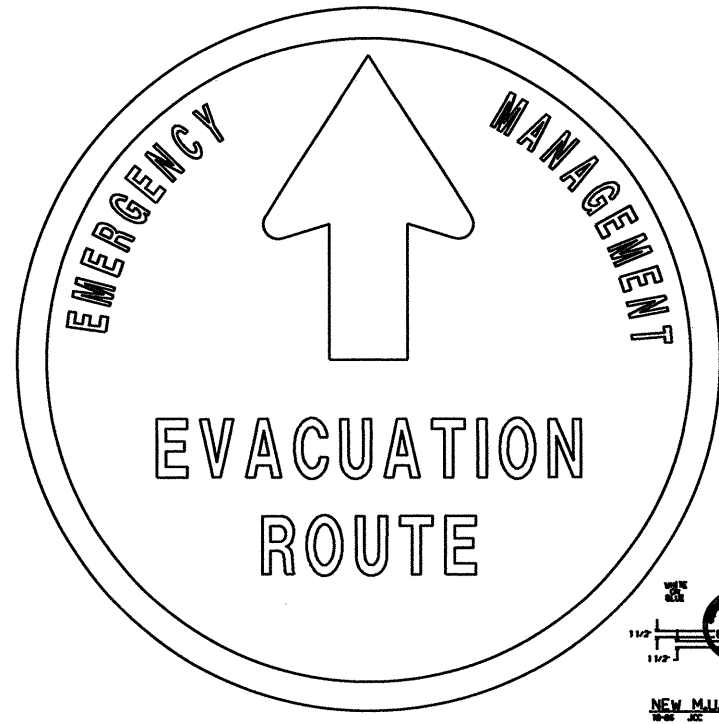
Spacing Factor is 0.6 for Piney Grove- and 1 for Wilbon Rd

LETTER POSITIONS

Letter spacings are to start of next letter

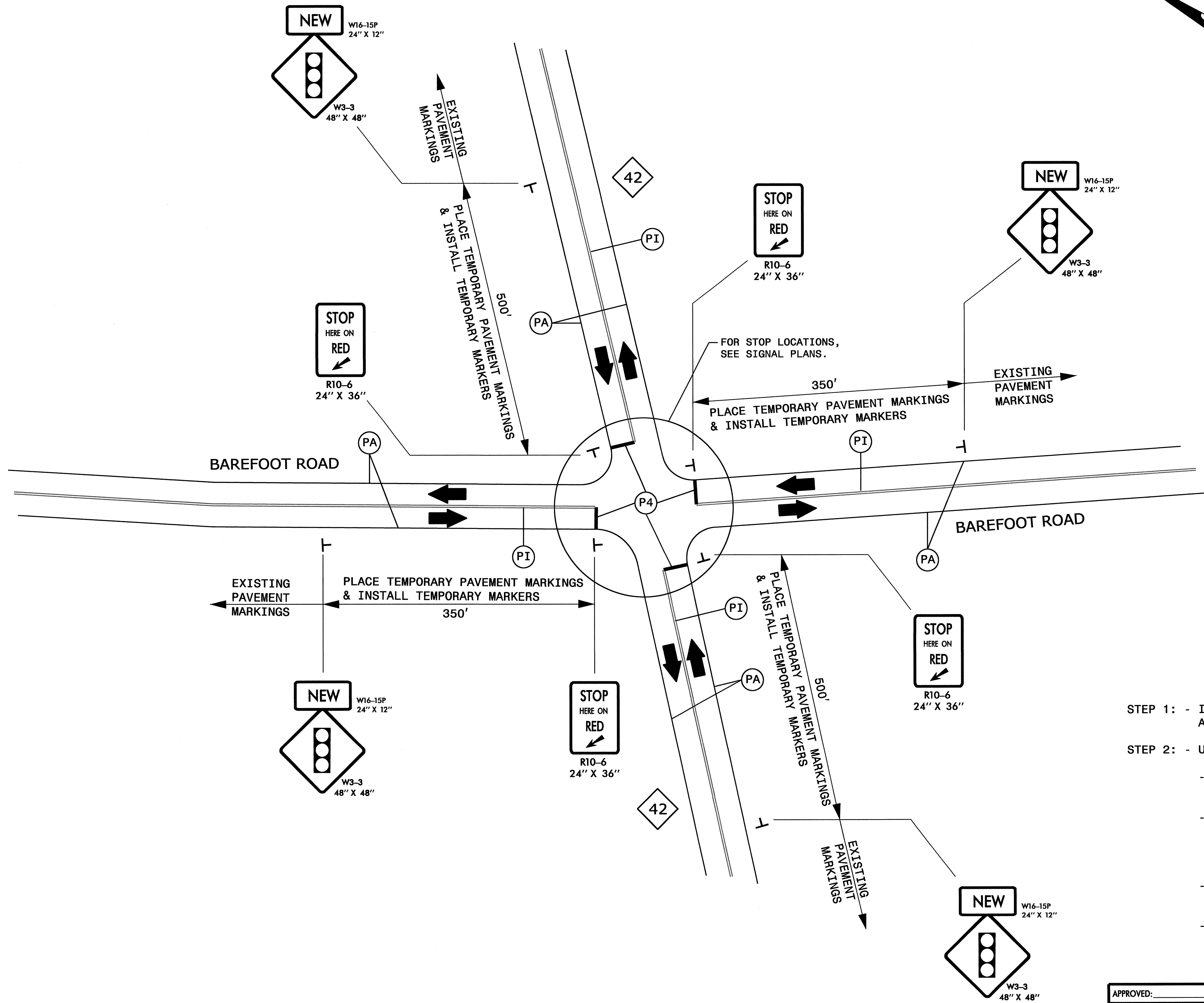
		Letter Spacing													Series/Size										
		P	I	N	E	Y	G	R	O	V	E	-													Text Length
		3.1	4.1	1.6	4.2	3.4	3.8	3	4.1	3.9	4	4.2	3.4	2.1	3.1										C 2000
																									41.7
																									C 2000
		6.7	5.4	2.2	3.9	4.3	4.7	3.4	3	4.4	3.4	6.7												34.6	

FILENAME: WZTC\_Piney Grove Wilborn Rd NORTH CAROLINA D.O.T. SIGN DETAIL



APPROVED: _____ DATE: _____			<h2>DETOUR SIGN DETAILS</h2>

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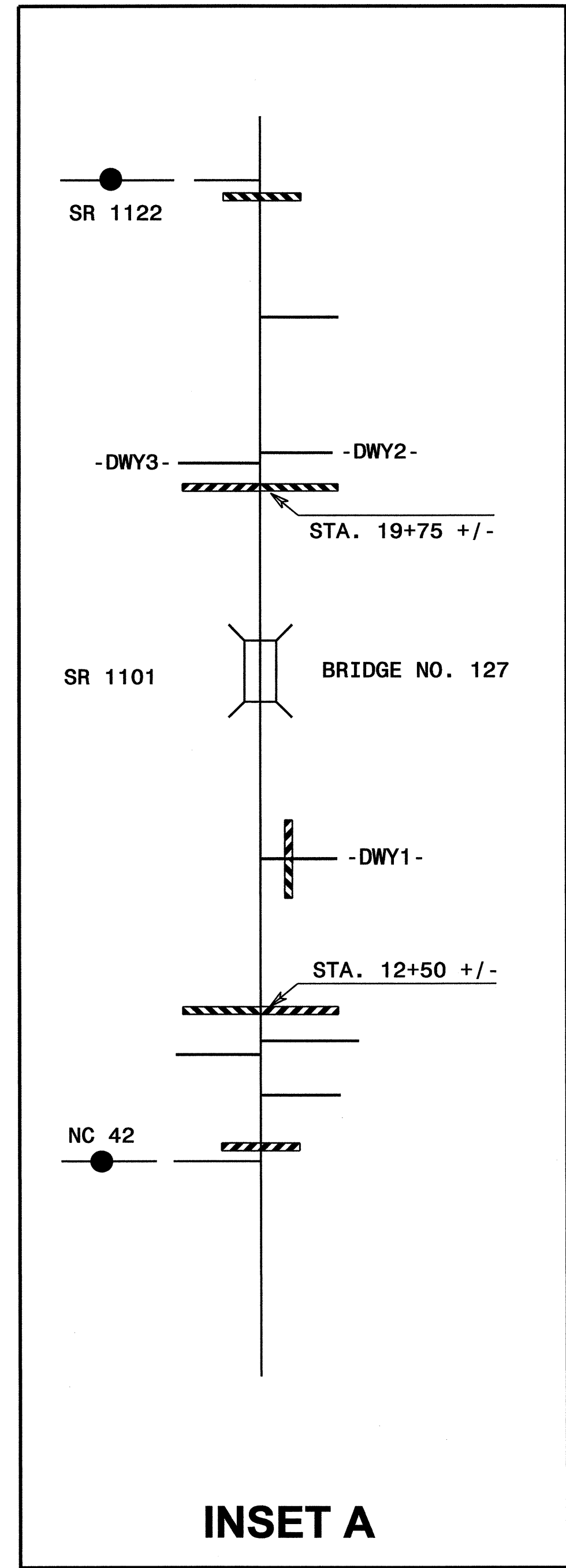
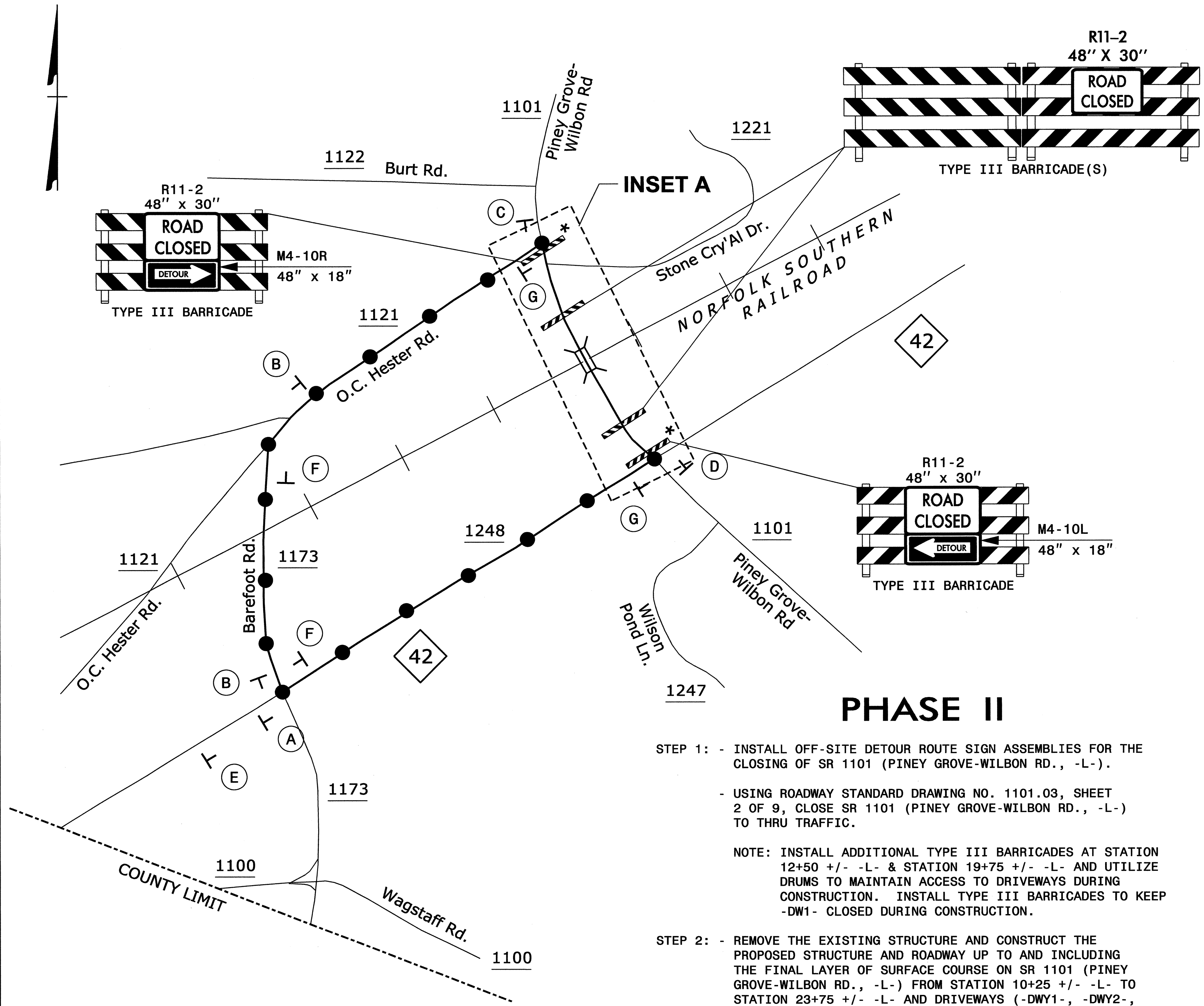
### PHASE I

- STEP 1: - INSTALL ADVANCE WORK ZONE WARNING SIGNS ON SR 1173 (BAREFOOT RD.) AND NC 42. (SEE SHEET TMP-2A).
- STEP 2: - USING ROADWAY STANDARD DRAWING NO. 1101.02, SHEET 1 OF 9:
- CONSTRUCT/INSTALL TEMPORARY TRAFFIC SIGNAL. (SEE SIGNAL PLANS).
  - PLACE TEMPORARY PAVEMENT MARKINGS (PAINT) ON EXISTING ROADWAYS (NC 42 & SR 1173, BAREFOOT RD.) AND INSTALL TEMPORARY RAISED PAVEMENT MARKERS. (SEE SHEET TMP-1A FOR TEMPORARY PAVEMENT MARKING LEGEND).
  - INSTALL ADDITIONAL SIGNS FOR TEMPORARY TRAFFIC SIGNAL AND ACTIVATE THE SIGNAL.
  - REMOVE ADVANCE WORK ZONE WARNING SIGNS.

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 jgreen AT TEL24733

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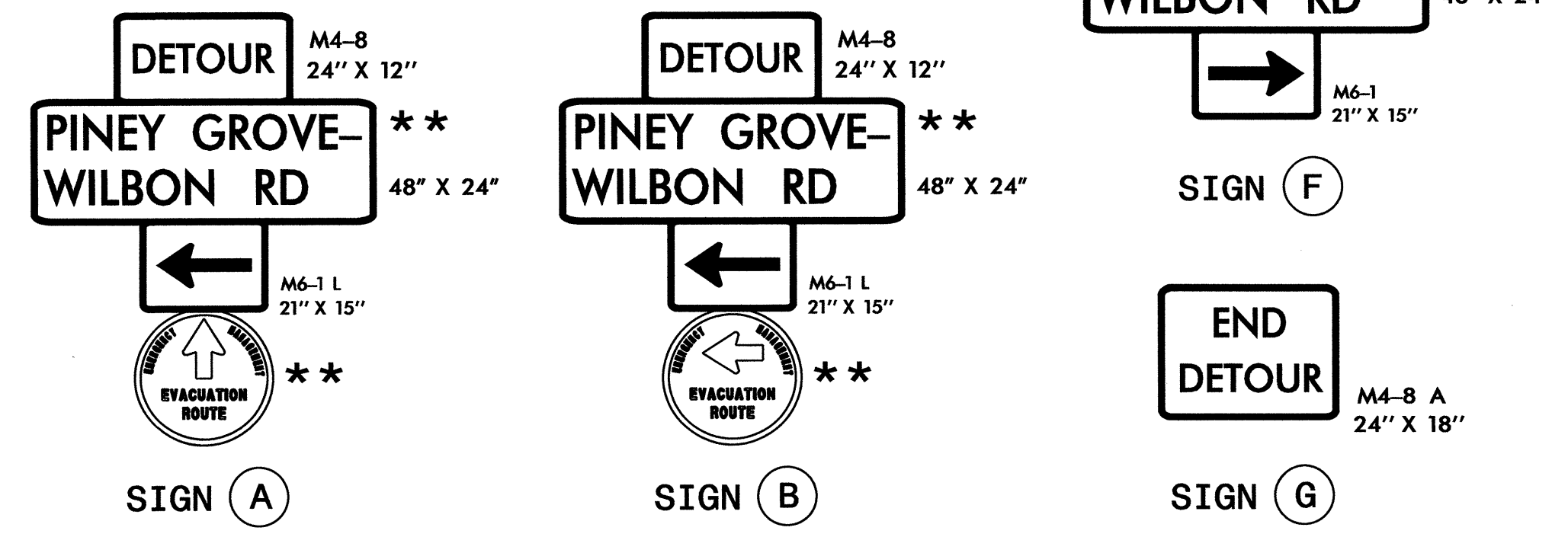




### PHASE II

- STEP 1: - INSTALL OFF-SITE DETOUR ROUTE SIGN ASSEMBLIES FOR THE CLOSING OF SR 1101 (PINEY GROVE-WILBON RD., -L-).  
 - USING ROADWAY STANDARD DRAWING NO. 1101.03, SHEET 2 OF 9, CLOSE SR 1101 (PINEY GROVE-WILBON RD., -L-) TO THRU TRAFFIC.
- NOTE: INSTALL ADDITIONAL TYPE III BARRICADES AT STATION 12+50 +/- -L- & STATION 19+75 +/- -L- AND UTILIZE DRUMS TO MAINTAIN ACCESS TO DRIVEWAYS DURING CONSTRUCTION. INSTALL TYPE III BARRICADES TO KEEP -DWY1- CLOSED DURING CONSTRUCTION.
- STEP 2: - REMOVE THE EXISTING STRUCTURE AND CONSTRUCT THE PROPOSED STRUCTURE AND ROADWAY UP TO AND INCLUDING THE FINAL LAYER OF SURFACE COURSE ON SR 1101 (PINEY GROVE-WILBON RD., -L-) FROM STATION 10+25 +/- -L- TO STATION 23+75 +/- -L- AND DRIVEWAYS (-DWY1-, -DWY2-, -DWY3- & -DWY4-). (SEE CONSTRUCTION PLANS).
- PLACE FINAL PAVEMENT MARKINGS AND MARKERS ON SR 1101 (PINEY GROVE-WILBON RD., -L-) FROM STATION 10+25 +/- -L- TO STATION 23+75 +/- -L-. (SEE PAVEMENT MARKING PLAN).
- STEP 3: - REMOVE ALL TRAFFIC CONTROL DEVICES, SIGNING, DETOUR ROUTE SIGNING, TEMPORARY SIGNAL AND STOP BARS ON NC42.
- INSTALL PROPOSED STOP SIGNS ON BAREFOOT RD. AS DIRECTED BY THE ENGINEER.
- OPEN SR 1101 (PINEY GROVE-WILBON RD., -L-) TO FINAL TRAFFIC PATTERN.
- NOTE: EITHER THE CONTRACTOR OR STATE FORCES SHALL CLOSE BAREFOOT RD. AS DIRECTED BY THE ENGINEER.

- NOTES:
- ALL DETOUR SIGN LOCATIONS ARE APPROXIMATE.
  - ALL DETOUR SIGNS ARE BLACK ON ORANGE UNLESS OTHERWISE NOTED.
  - \* SEE ROADWAY STANDARD DRAWING NO. 1101.03, SHEET 2 OF 9, FOR ADDITIONAL WORK ZONE SIGNS AND LOCATIONS.
  - \*\* SEE TMP-2B FOR SIGN DESIGN.



APPROVED: _____ DATE: _____		<h2>TEMPORARY TRAFFIC CONTROL PHASE II &amp; DETAIL</h2>

08-AUG-2011 10:02  
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