

STATE OF NORTH CAROLINA  
DIVISION OF HIGHWAYS

STATE PROJECT REFERENCE NO.	SHEET NO.
B-4127	TCP-1

**PLAN FOR PROPOSED  
TRAFFIC CONTROL, MARKING & DELINEATION  
GREENE COUNTY**

B-4127

**ROADWAY STANDARD DRAWINGS**

THE FOLLOWING ROADWAY STANDARDS AS APPEAR IN "ROADWAY STANDARD DRAWINGS"-  
PROJECT SERVICES UNIT-N.C. DEPARTMENT OF TRANSPORTATION-RALEIGH, N.C.,  
DATED 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	DRUM
1135.01	CONE
1145.01	BARRICADES
1150.01	FLAGGING DEVICES
1180.01	SKINNY DRUM
1205.01	PAVEMENT MARKINGS - LINE TYPES & OFFSETS
1205.02	PAVEMENT MARKINGS - DIVIDED AND UNDIVIDED ROADWAYS
1205.04	PAVEMENT MARKINGS - INTERSECTIONS
1205.12	PAVEMENT MARKINGS - BRIDGES
1261.01	GUARDRAIL & BARRIER DELINEATOR SPACING
1261.02	GUARDRAIL & BARRIER DELINEATOR TYPES
1262.01	GUARDRAIL END DELINEATION

**INDEX OF SHEETS**

SHEET NO.	TITLE
TCP-1	LIST OF APPLICABLE ROADWAY STANDARD DRAWINGS, LEGEND AND INDEX OF SHEETS
TCP-2	GENERAL NOTES AND PHASING
TCP-3	OFFSITE DETOUR MAP AND SIGNING
TCP-4	SR 1438 (DIXON FARM ROAD) SIGN DETAIL
PM-1	FINAL PAVEMENT MARKINGS AND SCHEDULE

**LEGEND**

- GENERAL**
- DIRECTION OF TRAFFIC FLOW
  - NORTH ARROW
  - PROPOSED PVMT. EXIST. PVMT.
  - WORK AREA
  - REMOVAL OF EXISTING PAVEMENT
- TRAFFIC CONTROL DEVICES**
- TYPE I BARRICADE
  - TYPE II BARRICADE
  - TYPE III BARRICADE
  - CONE
  - DRUM SKINNY DRUM
  - FLASHING ARROW PANEL (TYPE C)
  - STATIONARY SIGN
  - PORTABLE SIGN
  - STATIONARY OR PORTABLE SIGN
  - CRASH CUSHION
  - CHANGEABLE MESSAGE SIGN
  - TRUCK MOUNTED IMPACT ATTENUATOR (TMIA)
  - POLICE
  - FLAGGER
- PAVEMENT MARKINGS**
- CRYSTAL/CRYSTAL PAVEMENT MARKER
  - YELLOW/YELLOW PAVEMENT MARKER
  - CRYSTAL/RED PAVEMENT MARKER
  - PAVEMENT MARKING SYMBOLS

TIP PROJECT:

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pseymore AT WZTC206427

APPROVED: <u>Chad L Lanford</u> DATE: <u>2/6/07</u>	PLAN PREPARED BY: N.C.D.O.T. WORK ZONE TRAFFIC CONTROL UNIT
SEAL 	J. S. BOURNE, P.E. <u>TRAFFIC CONTROL ENGINEER</u> M. M. MCDIARMID, P.E. <u>TRAFFIC CONTROL PROJECT ENGINEER</u> C. L. LANFORD, P.E. <u>TRAFFIC CONTROL PROJECT DESIGN ENGINEER</u> P. SEYMORE <u>TRAFFIC CONTROL DESIGN ENGINEER / TECHNICIAN</u>

## 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 undesired 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.
- 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, on both sides of an open travelway, within the same location, on a two-lane, two-way road.
- F) Do not perform work involving heavy equipment within 15 ft of the edge of travelway when work is being performed behind a lane closure on the opposite side of the travelway.

### Pavement Edge Drop Off Requirements

- G) 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.
- H) 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 at 48" X 48") 500 feet in advance and a minimum of once every half mile throughout the uneven area.

### Traffic Pattern Alterations

- I) Notify the Engineer twenty one (21) calendar days prior to any traffic pattern alteration.

### Signing

- J) State Forces will be responsible for permanent signing within the project limits and detour signing off the project limits.
- K) Provide detour signing within the project limits.
- L) Cover or remove all detour signs off the project limits when a detour is not in operation.
- M) Ensure all necessary signing is in place prior to altering any traffic pattern.

### Traffic Control Devices

- N) When using Roadway Standard Drawing No. 1101.02, cones may be used in lieu of drums.
- O) Space channelizing devices in work areas no greater 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.
- P) Place Type III barricades, with "ROAD CLOSED" sign R11-2 attached, of sufficient length to close entire roadway.

### Pavement Markings And Markers

- Q) Install pavement markings and pavement markers on the final surface as follows:  

Road Name	Marking Paint	Marker
-L- (SR 1779)		None
- R) Place two applications of paint pavement markings on the final wearing surface. Place the second application of paint upon sufficient drying time of the first.
- S) Tie proposed pavement marking lines to existing pavement marking lines.

## PHASING

Note: Maintain access to all driveways within the project limits.

### Phase I

- Step 1) Using Roadway Standard Drawing (RSD) 1101.03 sheet 1 of 9 and Sheet TCP-3, install all road closure and detour signing. Close SR 1438 (Dixon Farm Road) from -L- Sta. 10+00 +/- to -L- Sta. 19+00 +/- . Place traffic onto off-site detour as shown on TCP-3.

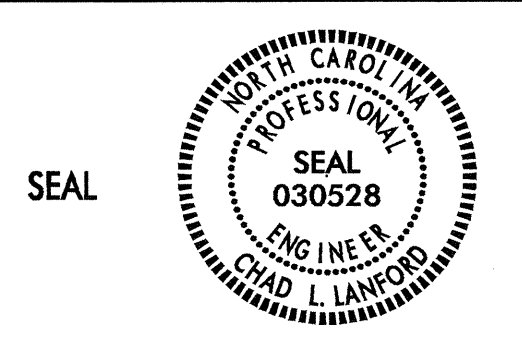

### Phase II

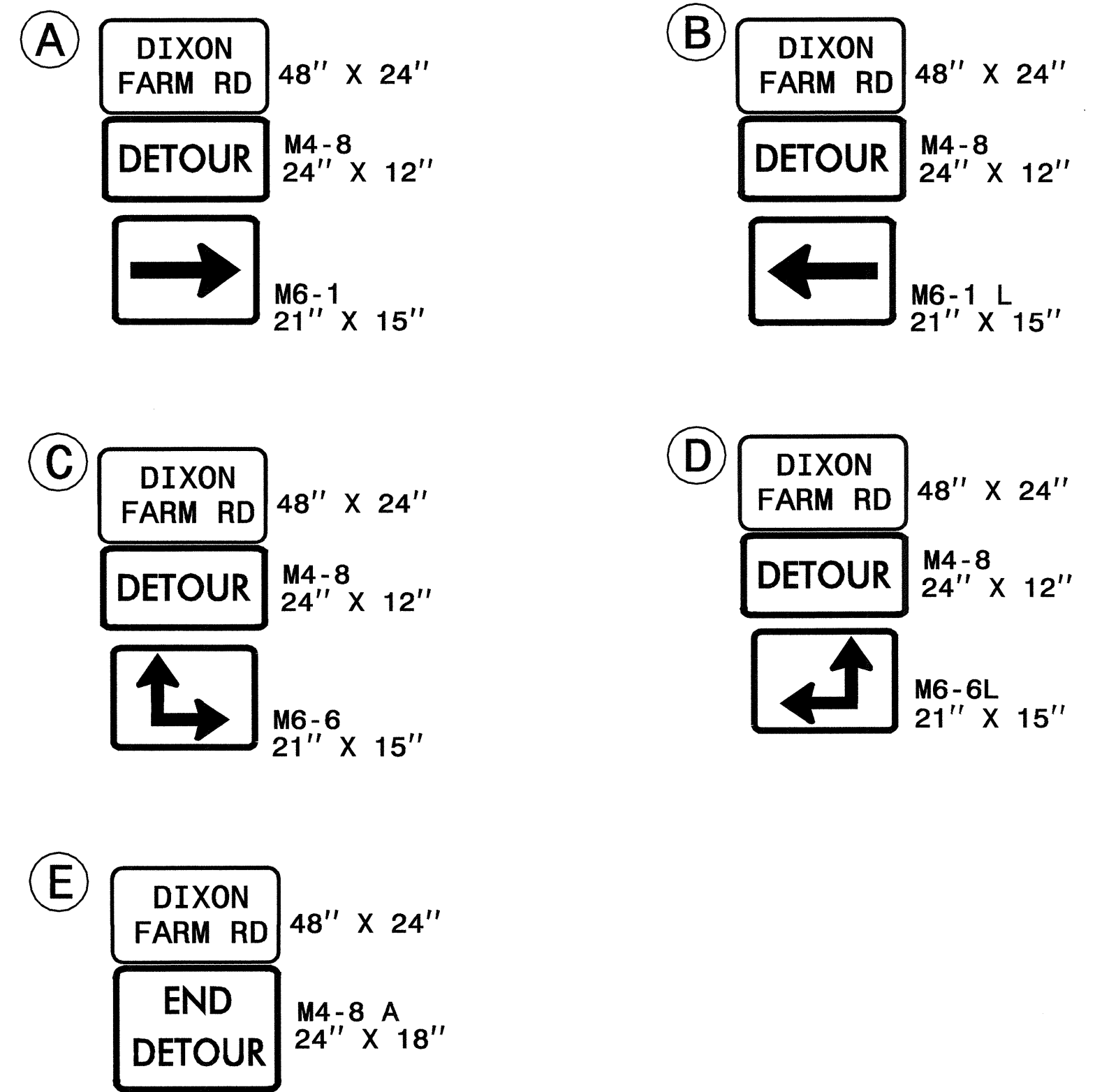
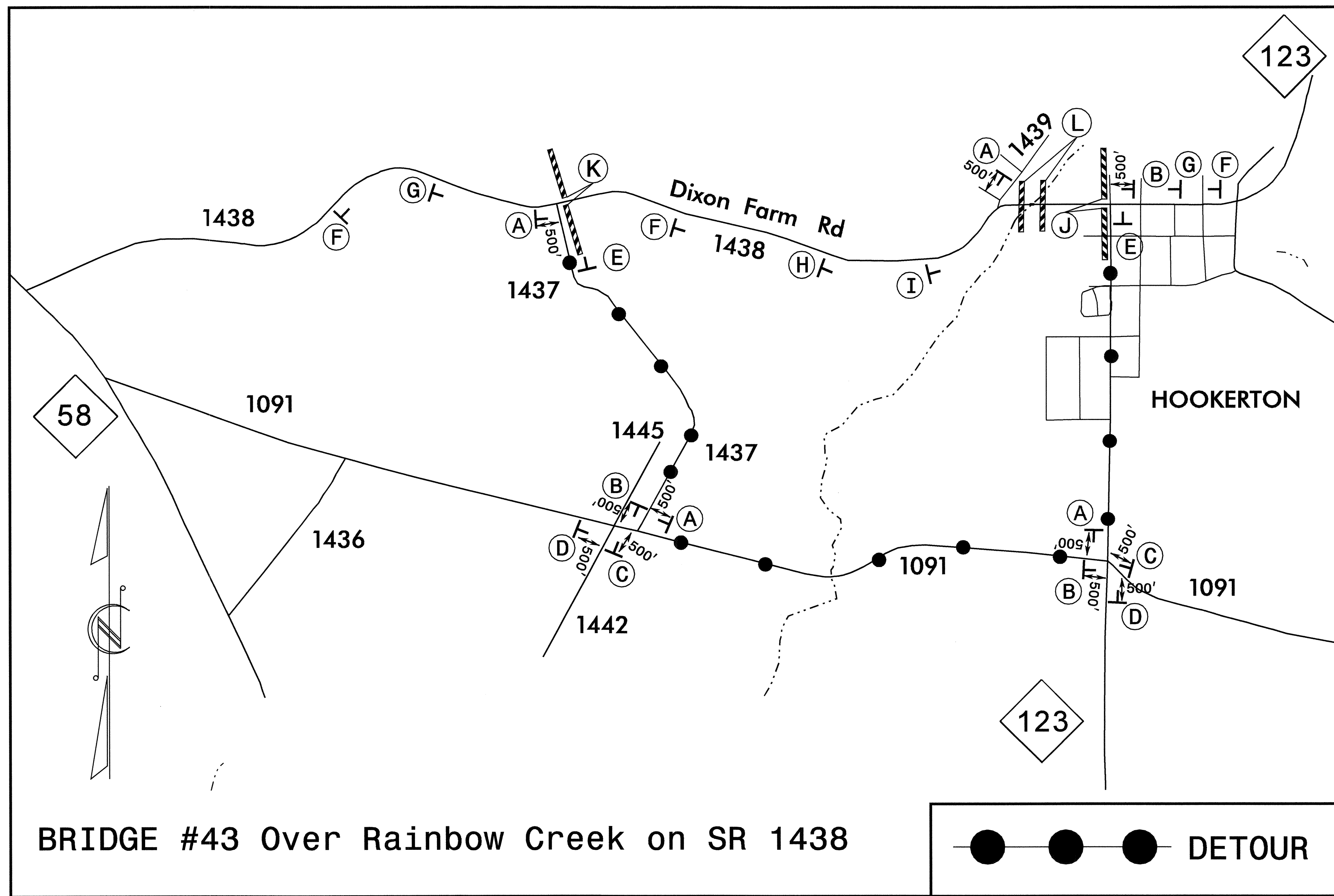
- Step 1) Away from traffic, perform the following from -L- Sta. 10+00 +/- to -L- Sta. 19+00 +/- :  
    - Remove existing bridge #43 and approaches.
    - Construct the proposed structure and approaches up to but not including the final layer of surface course;
    - Construct sidewalk, curb and gutter on north side of -L-;
- Using RSD 1101.02, perform the following from -L- Sta. 8+90 +/- to -L- Sta. 10+00 +/- and from -L- Sta. 19+00 +/- to -L- Sta. 21+90 +/- :  
  - Construct sidewalk, curb and gutter on north side of -L- and surface course up to but not including the final layer;

- Step 2) Using RSD 1101.02 Sheet 1 of 9 and PM-1, construct the final layer of surface course and install final pavement markings. (See Pavement Marking Schedule on PM-1).

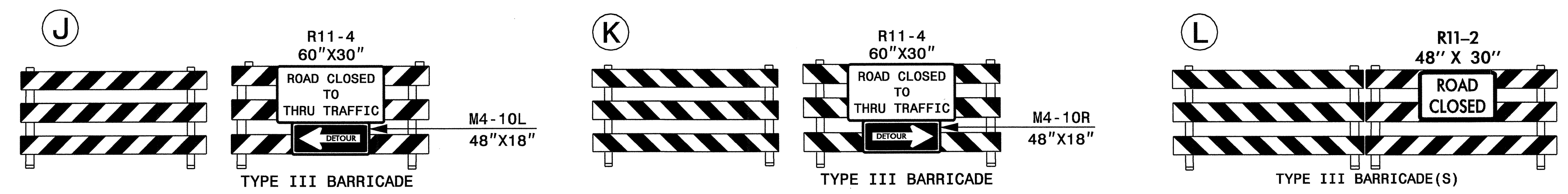
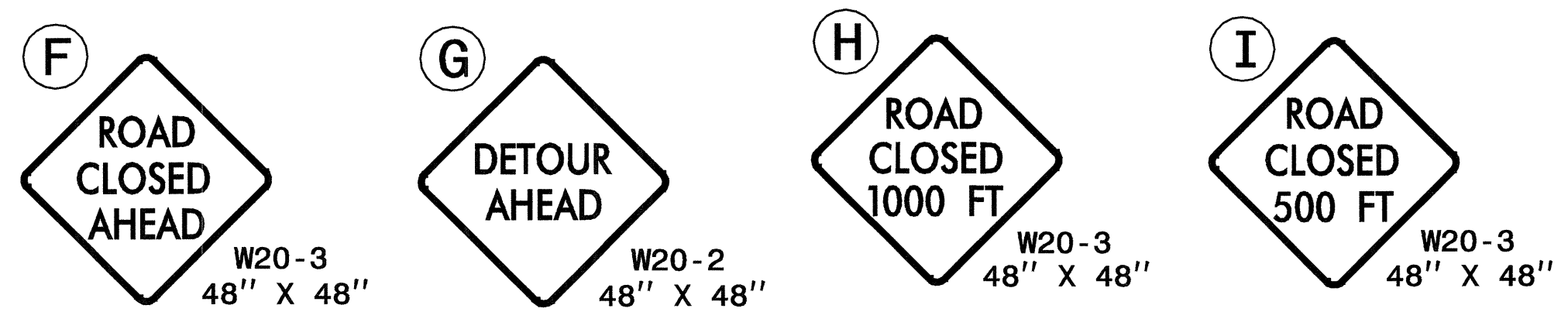
- Step 3) Remove all traffic control signing and devices and re-open SR 1438 (Dixon Farm Road) to a two-lane two-way pattern.

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APPROVED: <i>Chad R. Sanford</i> DATE: 2/14/07		<b>GENERAL NOTES AND PHASING</b>	
	SCALE: NONE		REVISIONS
	DATE: 01-30-07		
	DWG. BY: PS		
	DESIGN BY: CLL		
REVIEWED BY: MMM			
		CADD FILE: B3648 TC TCP2.dgn	



\* NOTE: USE RDWY STD DWG 1101.03 SHEET 1 OF 9 TO INSTALL SIGNS 'F' THRU 'K' OR AS DIRECTED BY THE ENGINEER.



APPROVED: <i>Chad L. Lanford</i> DATE: 2/6/07	<b>OFFSITE DETOUR MAP AND SIGNING</b>													
<table border="1"> <tr> <td>SCALE: NONE</td> <td rowspan="4" style="text-align: center;"> </td> <td>REVISIONS</td> </tr> <tr> <td>DATE: 01-22-07</td> <td></td> </tr> <tr> <td>DWG. BY: PS</td> <td></td> </tr> <tr> <td>DESIGN BY: CLL</td> <td></td> </tr> <tr> <td>REVIEWED BY: MMM</td> <td></td> <td></td> </tr> </table>	SCALE: NONE		REVISIONS	DATE: 01-22-07		DWG. BY: PS		DESIGN BY: CLL		REVIEWED BY: MMM				
SCALE: NONE			REVISIONS											
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 psey@more AT WTC206427

SIGN NUMBER: Dixon Farm Rd		BACKG COLOR: Orange		DESIGN BY: R.Tung		CHECKED BY: DME		STD #:																																																								
TYPE: D		COPY COLOR: Black		PROJECT ID: B-4127		DIV: 2		DATE: Aug 22,2005																																																								
QUANTITY: 1	<table border="1"> <tr> <th>SYMBOL</th> <th>X</th> <th>Y</th> <th>WID</th> <th>HT</th> </tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td></tr> </table>	SYMBOL	X	Y	WID	HT																																																			SIGN WIDTH: 4'-0"		SIGN HEIGHT: 2'-0"		TOTAL AREA: 8.0 Sq.Ft.		BORDER TYPE: RECESSED	
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RECESS: 0.38"		WIDTH: 0.38"		RADIOI: 1.5"		MAT'L: 0.125" (3.2 mm) ALUMINUM		NO. Z BARS:																																																								
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USE NOTES:																																																																
1. Legend and border shall be direct applied non-reflective sheeting.																																																																
2. Background shall be Type VII, VIII or IX (prismatic) retroreflective sheeting.																																																																

**LETTER POSITIONS**

Letter spacings are to start of next letter

											Series/Size
											Text Length
		D	I	X	O	N					D6
		12.6	5.5	2.4	5.2	4.1	12.7				22.7
		F	A	R	M	R	D				D6
		5.9	4.4	6.1	5.5	6	5.5	4	6		36.1

Spacing Factor is 1 unless specified otherwise

NORTH CAROLINA D.O.T. SIGN DETAIL

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 pseymer AT WZTC206427

APPROVED: <i>Chad L. Lanford</i> DATE: 2/9/07		<b>DIXON FARM ROAD SIGN DESIGN</b>		REVISIONS	
	SCALE: NONE				
	DATE: 1/05				
	DWG. BY: MMT				
	DESIGN BY: ME				
	REVIEWED BY: AIA				