B-4018

TIP PROJECT:

STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

STATE PROJECT REFERENCE NO.	SHEET NO.
B-4018	TCP-1

PLAN FOR PROPOSED TRAFFIC CONTROL, MARKING & DELINEATION

BEAUFORT COUNTY

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
1101.03	TEMPORARY ROAD CLOSURES
1101.05	WORK ZONE VEHICLE ACCESSES
1110.01	STATIONARY WORK ZONE SIGNS
1145.01	BARRICADES
1205.01	PAVEMENT MARKINGS - LINE TYPES AND OFFSETS
1205.02	PAVEMENT MARKINGS - 2 LANE AND MULTILANE ROADWAYS
1205.12	PAVEMENT MARKINGS - BRIDGES
1250.01	PAVEMENT MARKER SPACING
1251.01	RAISED PAVEMENT MARKERS - TEMPORARY AND PERMANENT
1261.01	GUARDRAIL AND BARRIER DELINEATOR SPACING
1261.02	GUARDRAIL AND BARRIER DELINEATOR TYPES
1262.01	GUARDRAIL END DELINEATION

INDEX OF SHEETS

PAVEMENT MARKING SCHEDULE

SYMBOL	DESCRIPTION	PAY ITEM QUANTITY BREAKDOWN		TOTAL QUANTITY	
	FINAL				
	PAVEMENT MARKINGS				
	COLD APPLIED PLASTIC (4") TYPE1 - PERMANENT STD				
CA	WHITE EDGELINE	400	LF		
CI	YELLOW DOUBLE CENTER	400	LF		
			TOTAL	800	LF
	THERMOPLASTIC (4", 120 MILS) STANDARD GLASS BEADS				
TI	YELLOW DOUBLE CENTER	770	LF		
			TOTAL	770	LF
	THERMOPLASTIC (4", 90 MILS) STANDARD GLASS BEADS				
TA	WHITE EDGELINE	770	LF		
			TOTAL	770	LF
	MARKERS				
	PERMANENT RAISED PAVEMENT MARKERS				
MA	YELLOW & YELLOW	8	EA		
			TOTAL	8	EA

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

APPROVED: Jessica Kuse
DATE: 6/11/07

SEAL

NORTH CAROLINA PROFESSIONAL SEAL 027811 ENGINEER JESSICA D. KUSE

PLAN PREPARED BY: N.C.D.O.T. WORK ZONE TRAFFIC CONTROL UNIT

J. S. BOURNE, P.E. TRAFFIC CONTROL ENGINEER
J. S. KITE, P.E. TRAFFIC CONTROL PROJECT ENGINEER
J. D. KUSE, P.E. TRAFFIC CONTROL PROJECT DESIGN ENGINEER
D. W. BISSETTE, P.E. TRAFFIC CONTROL DESIGN ENGINEER / TECHNICIAN

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PROJECT NOTES

PROJ. REFERENCE NO.	SHEET NO.
B-4018	TCP-2

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.

PAVEMENT EDGE DROP OFF REQUIREMENTS

A) 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.

B) 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) 500' IN ADVANCE AND A MINIMUM OF EVERY HALF MILE THROUGHOUT THE UNEVEN AREA.

TRAFFIC PATTERN ALTERATIONS

C) NOTIFY THE ENGINEER TWENTY ONE (21) CALENDAR DAYS PRIOR TO ANY TRAFFIC PATTERN ALTERATION.

SIGNING

D) 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.

E) PROVIDE PERMANENT SIGNING.

F) PROVIDE DETOUR SIGNING WITHIN AND OFF THE PROJECT LIMITS.

G) COVER OR REMOVE ALL DETOUR SIGNS WITHIN AND OFF THE PROJECT LIMITS WHEN A DETOUR IS NOT IN OPERATION.

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

TRAFFIC CONTROL DEVICES

I) PLACE TYPE III BARRICADES, WITH "ROAD CLOSED" SIGN R11-2 ATTACHED, OF SUFFICIENT LENGTH TO CLOSE ENTIRE ROADWAY.

PAVEMENT MARKINGS AND MARKERS

J) INSTALL PAVEMENT MARKINGS AND PAVEMENT MARKERS ON THE FINAL SURFACE AS FOLLOWS:

ROAD NAME	MARKING	MARKER
NC 32 (ASPHALT)	THERMOPLASTIC	RAISED REFLECTIVE
NC 32 (BRIDGE)	COLD APPLIED PLASTIC	RAISED REFLECTIVE

K) TIE PROPOSED PAVEMENT MARKING LINES TO EXISTING PAVEMENT MARKING LINES.

LOCAL NOTES

1. COORDINATE ROAD CLOSURE WITH THE BEAUFORT COUNTY SCHOOLS AND BEAUFORT COUNTY EMERGENCY MANAGEMENT SERVICES PRIOR TO CONSTRUCTION.
2. INSTALL SIGNS BEFORE THE BARRICADES WHEN CLOSING THE ROADWAY TO TRAFFIC. REMOVE BARRICADES BEFORE THE SIGNS WHEN OPENING THE ROADWAY TO TRAFFIC. INSTALL/REMOVE SIGNS AND BARRICADES WITHIN THE SAME CALENDAR DAY.
3. ALL SIGN SPACING DIMENSIONS ARE APPROXIMATE, FIELD ADJUST AS NECESSARY OR AS DIRECTED.
4. MAINTAIN DRIVEWAY ACCESS WITHIN PROJECT LIMITS USING INCIDENTAL STONE.
5. USE FLAGGERS AS NEEDED TO MAINTAIN LOCAL TRAFFIC WITHIN ROAD CLOSURE. FLAGGING WILL BE INCIDENTAL TO THE COST OF THE CONTRACT.
6. REAPPLY PAVEMENT MARKINGS UP TO 100' BEYOND CONSTRUCTION LIMITS IF NEEDED TO REPAIR DAMAGE AND/OR TRACKING FROM CONSTRUCTION.
7. PLACE COLD APPLIED PLASTIC PAVEMENT MARKING LINES TYPE 1 ON BRIDGE.

PHASING

STEP 1 INSTALL AND BEGIN RUNNING CHANGEABLE MESSAGE SIGNS AS SHOWN ON PLAND FOR TCP-3 FIVE DAYS PRIOR TO CLOSING NC 32. USE MESSAGE GROUP 1 ON BOTH BOARDS. (SEE LOCAL NOTE NO. 1)

STEP 2 INSTALL SIGNS AND BARRICADES CLOSING NC 32 TO THROUGH TRAFFIC AS SHOWN ON TCP-3 AND TCP-4 AND IN ACCORDANCE WITH ROADWAY STANDARD DRAWING 1101.03, SHEET 1 OF 9. (SEE LOCAL NOTES NO. 2 and 3)

STEP 3 REMOVE CHANGEABLE MESSAGE SIGNS.

STEP 4 CONSTRUCT THE FOLLOWING WITHIN THE ROAD CLOSURE: (SEE LOCAL NOTES NO. 4 AND 5)
-CONSTRUCT DRIVEWAY TIE IN LEFT OF -L- STA. 14+60+/-
-REMOVE THE EXISTING STRUCTURE
-CONSTRUCT THE PROPOSED STRUCTURE
-CONSTRUCT THE PROPOSED ROADWAY SECTION -L- UP TO BUT NOT INCLUDING THE FINAL LAYER OF SURFACE FROM STA. 13+00+/- TO STA. 15+85+/- AND FROM STA. 17+85+/- TO STA. 18+85+/-

STEP 5 PLACE THE FINAL LAYER OF SURFACE COURSE AND APPLY THE FINAL PAVEMENT MARKINGS AND PAVEMENT MARKERS ON -L- FROM STA. 13+00+/- TO STA. 18+85+/-. (SEE LOCAL NOTE NO. 6 AND 7)

STEP 6 REMOVE ALL BARRICADES, ROAD CLOSED SIGNS AND DETOUR SIGNS AND OPEN NC 32 TO THROUGH TRAFFIC. (SEE LOCAL NOTE NO. 2)

APPROVED: Jessica Kuse DATE: 6/11/07

SEAL

NORTH CAROLINA PROFESSIONAL SEAL 027811 ENGINEER JESSICA D. KUSE

PROJECT NOTES

SCALE:	NONE
DATE:	06/07
DWG. BY:	DWB
DESIGN BY:	DWB
REVIEWED BY:	JDK

REVISIONS

CADD FILE

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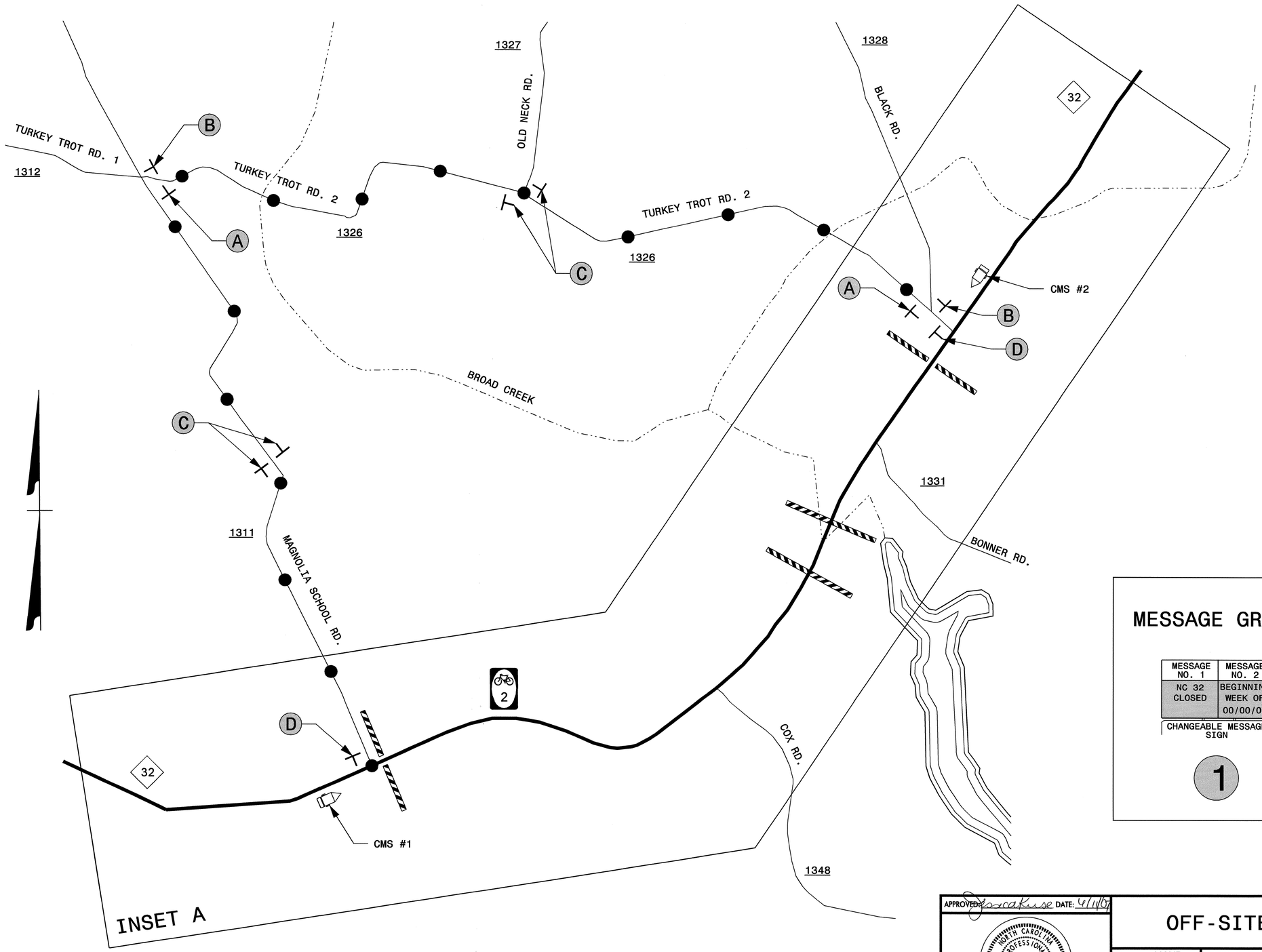
PROJ. REFERENCE NO.	SHEET NO.
B-4018	TCP-3



MESSAGE GROUP

MESSAGE NO. 1	MESSAGE NO. 2
NC 32 CLOSED	BEGINNING WEEK OF 00/00/00

CHANGEABLE MESSAGE SIGN

1

APPROVED: Jessica Kisse DATE: 4/11/07

SEAL

NORTH CAROLINA PROFESSIONAL SEAL 027811 ENGINEER JESSICA D. KISE

OFF-SITE DETOUR

SCALE:	NONE
DATE:	04/07
DWG. BY:	DWB
DESIGN BY:	DWB
REVIEWED BY:	JDK

REVISIONS	
CADD FILE	

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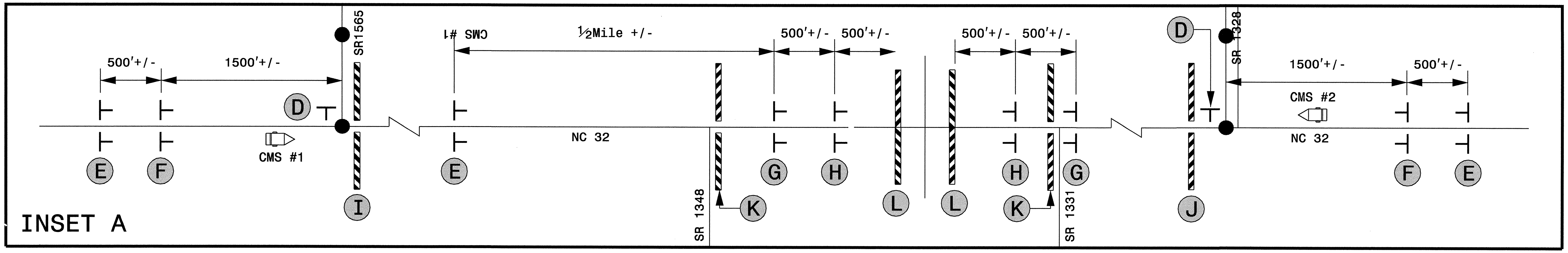
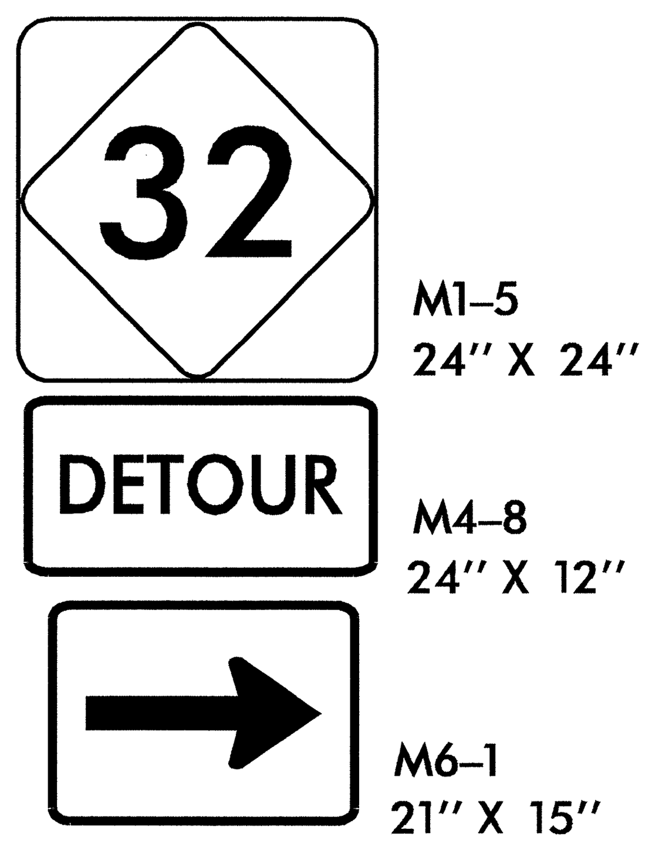
PROJ. REFERENCE NO.	SHEET NO.
B-4018	TCP-4





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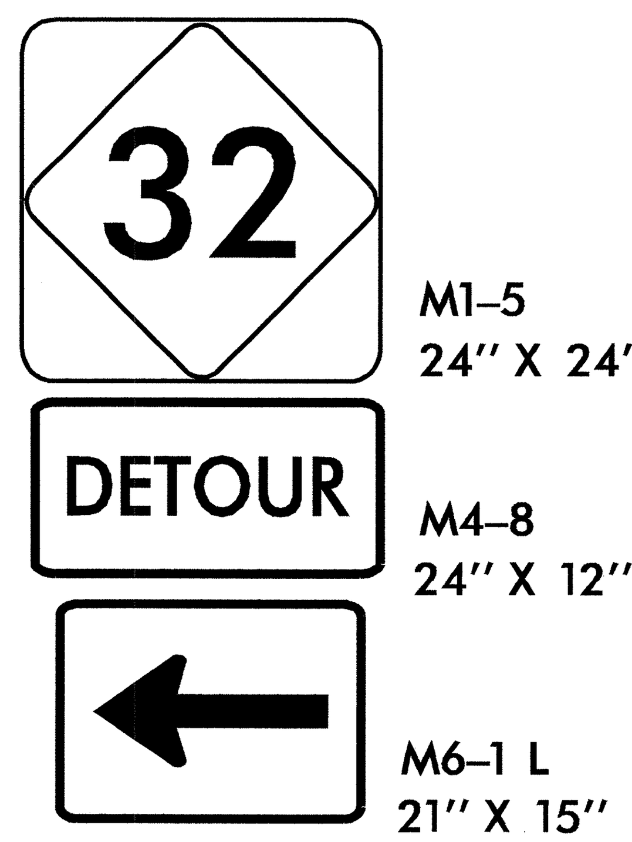

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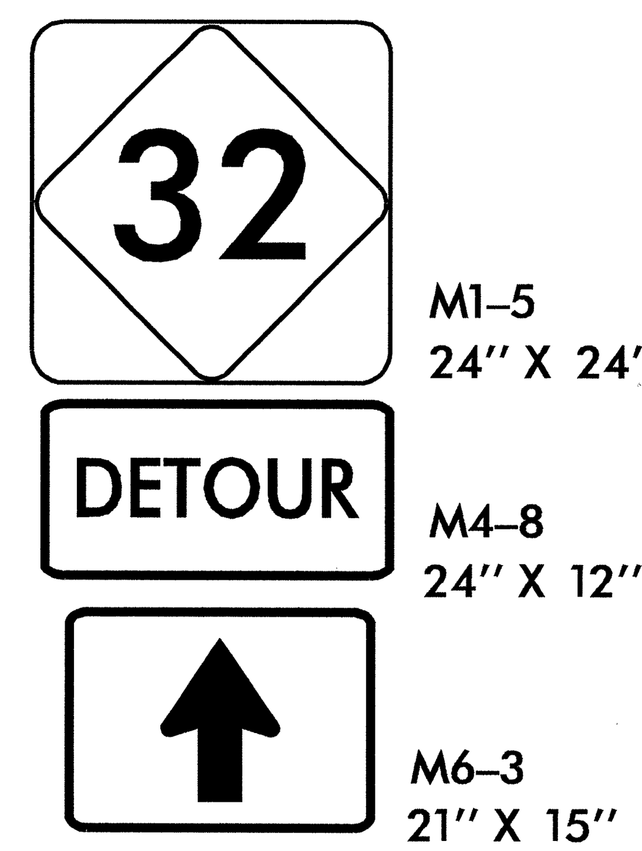

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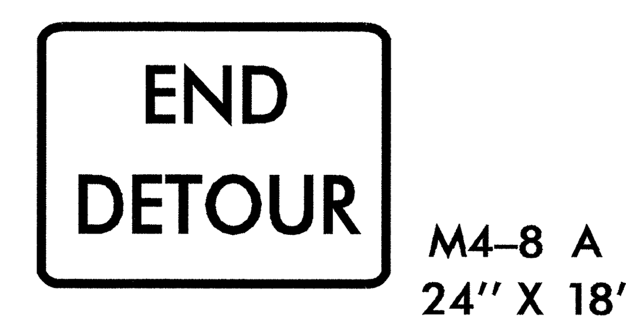

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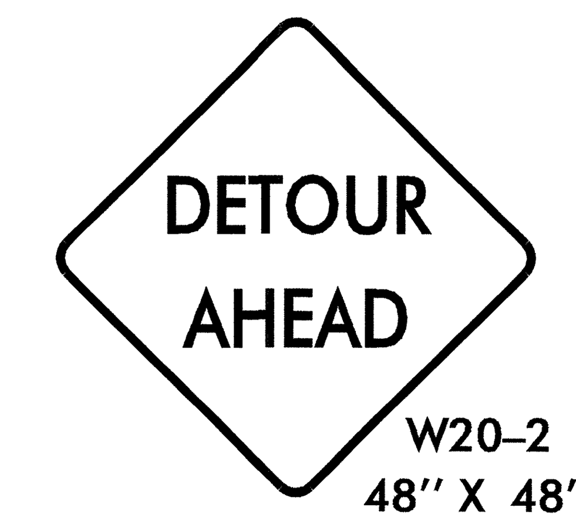

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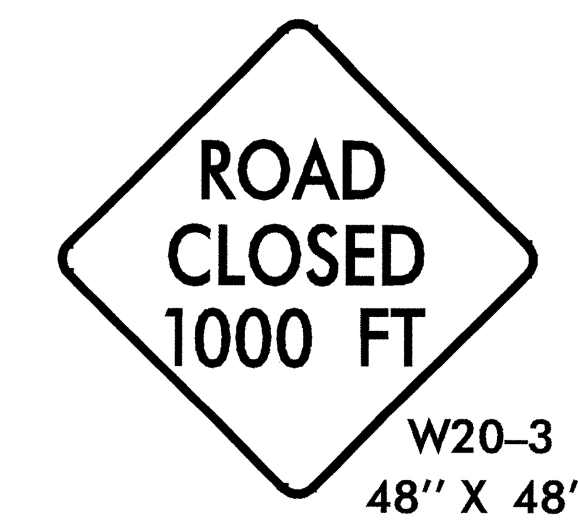

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H

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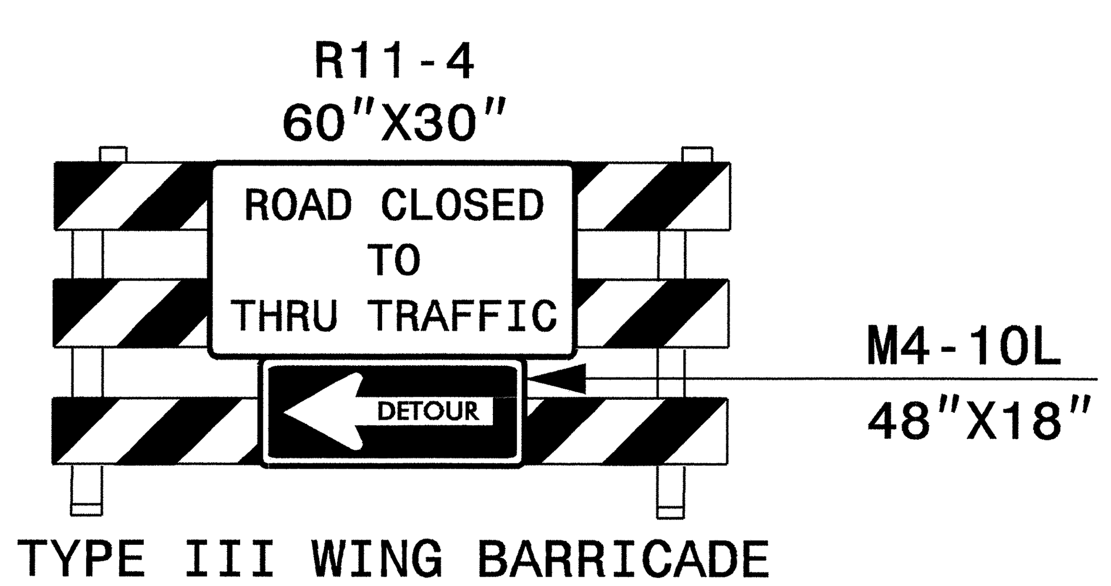

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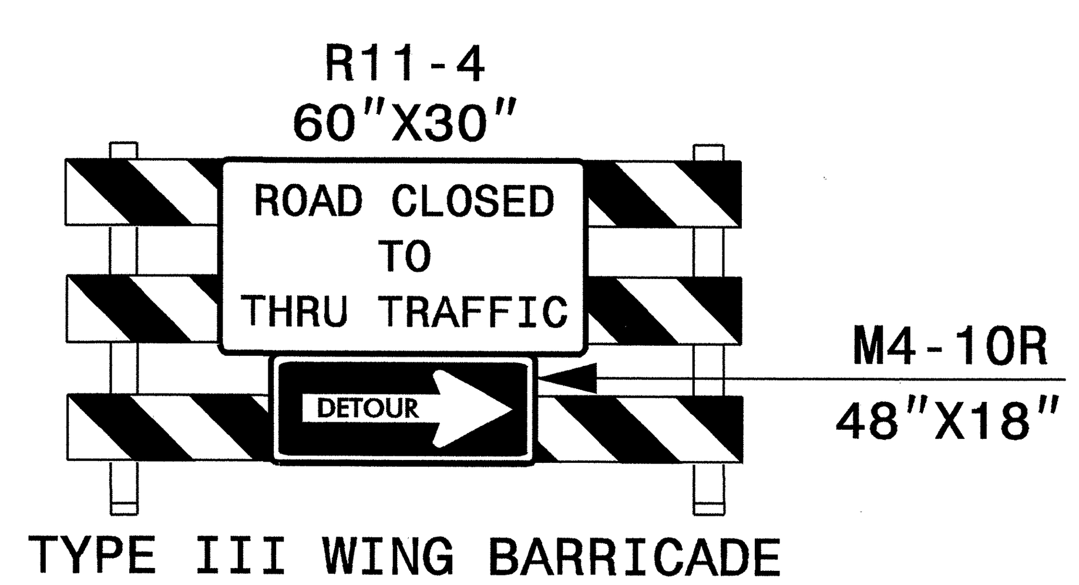

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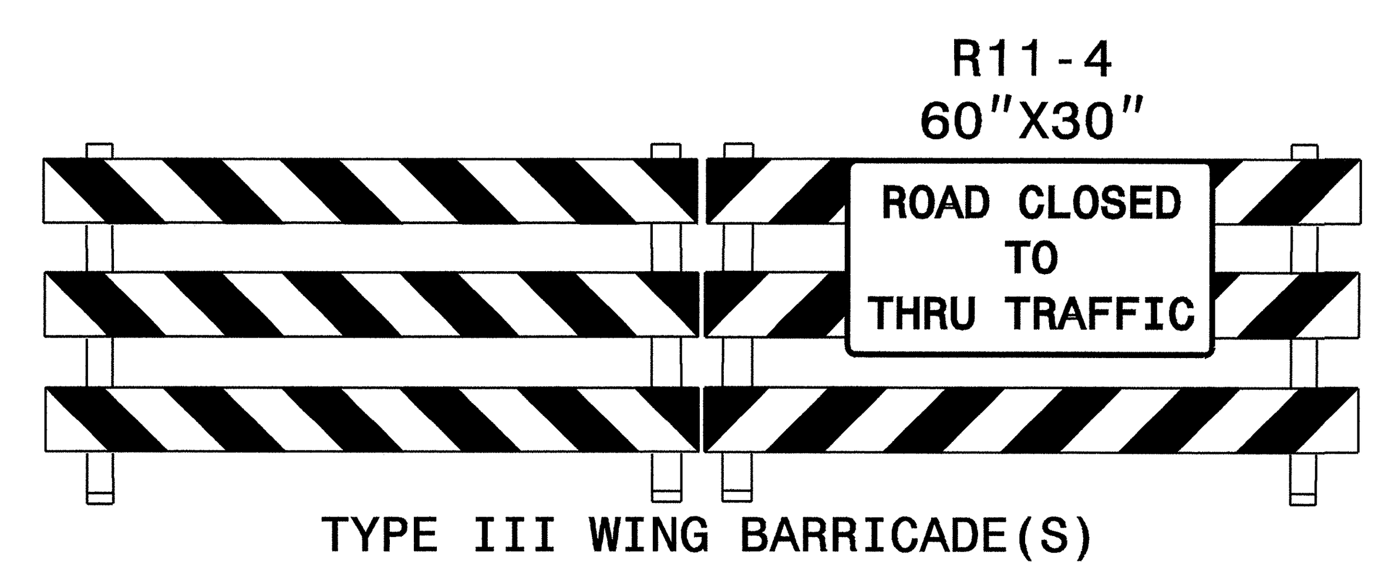

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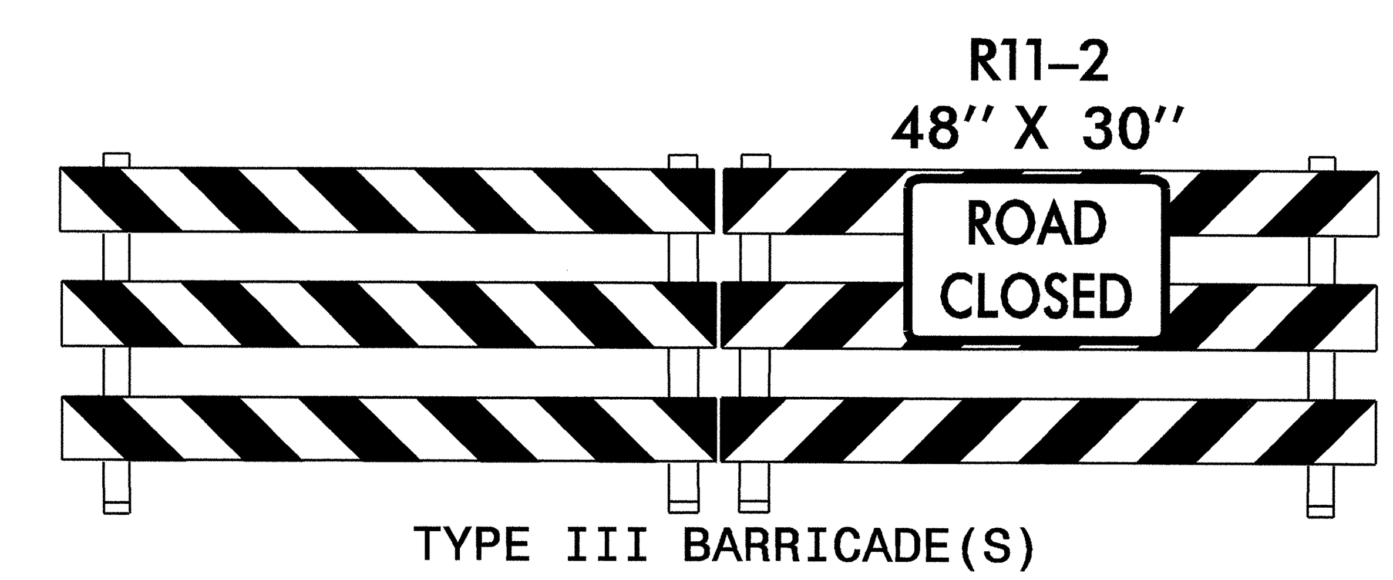

L

(2 SETS*)

*BARRICADES USED TO CLOSE A ROADWAY SHALL EXTEND ACROSS THE ENTIRE ROADWAY. WHERE LOCAL TRAFFIC MUST BE MAINTAINED, THEY MAY BE PLACED IN A STAGGERED POSITION.

APPROVED: Jessica Kuse DATE: 6/11/07

SEAL

NORTH CAROLINA PROFESSIONAL SEAL 027811 ENGINEER JESSICA D. KUSE

OFF-SITE DETOUR

SCALE:	NONE
DATE:	04/07
DWG. BY:	DWB
DESIGN BY:	DWB
REVIEWED BY:	JDK

REVISIONS

CADD FILE

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dwbissette AT WZTC22402