

STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

STATE PROJECT REFERENCE NO.	SHEET NO.
B-4019	TCP-1

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

B-4019

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
DIVISION 11 - WORK ZONE TRAFFIC CONTROL	
1101.02	TEMPORARY LANE CLOSURES
1101.03	TEMPORARY ROAD 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 - TYPE III
1150.01	FLAGGING DEVICES

DIVISION 12 - PAVEMENT MARKINGS, MARKERS, AND DELINEATION

1205.01	PAVEMENT MARKINGS - LINE TYPES AND OFFSETS
1205.02	PAVEMENT MARKINGS - DIVIDED AND UNDIVIDED ROADWAYS
1205.04	PAVEMENT MARKINGS - INTERSECTIONS
1205.08	PAVEMENT MARKINGS - SYMBOLS AND WORD MESSAGES
1205.11	PAVEMENT MARKINGS - RAILROAD CROSSINGS
1205.12	PAVEMENT MARKINGS - BRIDGES
1250.01	PAVEMENT MARKER SPACING
1251.01	RAISED PAVEMENT MARKERS - PERMANENT AND TEMPORARY
1261.01	GUARDRAIL AND BARRIER DELINEATOR SPACING
1261.02	GUARDRAIL AND BARRIER DELINEATOR TYPES
1262.01	GUARDRAIL END DELINEATION
1264.01	OBJECT MARKERS
1264.02	PLACEMENT OF OBJECT MARKERS

INDEX OF SHEETS

SHEET NO.	TITLE
TCP-1	LIST OF APPLICABLE ROADWAY STANDARD DRAWINGS, INDEX OF SHEETS, AND LEGEND
TCP-2	PROJECT NOTES AND PHASING
TCP-3	OFF-SITE DETOUR ROAD CLOSURE
PMP-1	PAVEMENT MARKING SCHEDULE AND PLAN

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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APPROVED:	PLAN PREPARED BY: N.C.D.O.T. WORK ZONE TRAFFIC CONTROL UNIT
DATE: 11/26/08	
SEAL	J. S. BOURNE, P.E. <u>TRAFFIC CONTROL ENGINEER</u>
	J. S. KITE, P.E. <u>TRAFFIC CONTROL PROJECT ENGINEER</u>
	J. D. KUSE, P.E. <u>TRAFFIC CONTROL PROJECT DESIGN ENGINEER</u>
	S. D. MILLER <u>TRAFFIC CONTROL DESIGN ENGINEER / TECHNICIAN</u>

PROJECT NOTES

PROJ. REFERENCE NO.	SHEET NO.
B-4019	TCP-2

GENERAL NOTES

ADAPT THE TRAFFIC CONTROL PLANS WHEN DIRECTED BY THE ENGINEER TO MEET FIELD CONDITIONS TO PROVIDE SAFE AND EFFICIENT TRAFFIC MOVEMENT. CHANGES MAY BE REQUIRED WHEN PHYSICAL DIMENSIONS IN THE DETAIL DRAWINGS, STANDARD DETAILS, AND ROADWAY DETAILS ARE NOT ATTAINABLE OR RESULT IN DUPLICATE OR UNDESIRED OVERLAPPING OF DEVICES. MODIFICATION MAY INCLUDE: MOVING, SUPPLEMENTING, COVERING, OR REMOVAL OF DEVICES.

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.

TRAFFIC PATTERN ALTERATIONS

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

SIGNING

- C) INSTALL ADVANCED WARNING SIGNS NO MORE THAN THREE (3) DAYS PRIOR TO THE BEGINNING OF CONSTRUCTION.
- D) PROVIDE PERMANENT SIGNING.
- E) PROVIDE DETOUR SIGNING WITHIN THE PROJECT LIMITS.
- F) COVER OR REMOVE ALL DETOUR SIGNS WITHIN THE PROJECT LIMITS WHEN A DETOUR IS NOT IN OPERATION.
- G) STATE FORCES WILL BE RESPONSIBLE FOR DETOUR SIGNING OFF THE PROJECT LIMITS.
- H) STATE FORCES WILL COVER OR REMOVE ALL DETOUR SIGNS OFF THE PROJECT LIMITS WHEN A DETOUR IS NOT IN OPERATION.
- I) ENSURE ALL NECESSARY SIGNING IS IN PLACE PRIOR TO ALTERING ANY TRAFFIC PATTERN.

TRAFFIC CONTROL DEVICES

- J) PLACE TYPE III BARRICADES, WITH "ROAD CLOSED" SIGN R11-2 ATTACHED, OF SUFFICIENT LENGTH TO CLOSE ENTIRE ROADWAY. WHERE LOCAL TRAFFIC MUST BE MAINTAINED, THEY MAY BE PLACED IN A STAGGERED PATTERN.

PAVEMENT MARKINGS AND MARKERS

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

ROAD NAME	MARKING	MARKER
BRIDGE #103 ALL ROADS	COLD APPLIED TAPE THERMOPLASTIC	RAISED REFLECTIVE RAISED REFLECTIVE

- L) TIE PROPOSED PAVEMENT MARKING LINES TO EXISTING PAVEMENT MARKING LINES.

LOCAL NOTES

1. MAINTAIN DRIVEWAY ACCESS WITHIN PROJECT LIMITS USING INCIDENTAL STONE AND FLAGGERS AS NEEDED.
2. INSTALL SIGNS BEFORE INSTALLING THE BARRICADES WHEN CLOSING THE ROADWAY TO TRAFFIC. REMOVE BARRICADES BEFORE REMOVING THE SIGNS WHEN OPENING THE ROADWAY TO TRAFFIC. INSTALL/REMOVE SIGNS AND BARRICADES WITHIN THE SAME CALENDAR DAY.
3. -Y4- ACCESS IS TO BE MAINTAINED UNTIL THE PROPOSED ROADWAY SECTION IS CONSTRUCTED.
4. DIVISION WILL COORDINATE DRIVEWAY ACCESSES WITH PROPERTY OWNERS.
5. NOTIFY BEAUFORT COUNTY SCHOOL SYSTEM AND EMERGENCY SERVICES ONE MONTH PRIOR TO ANY ROAD CLOSURE OR FLAGGING OPERATION.
6. ALL SIGN SPACING DIMENSIONS ARE APPROXIMATE; FIELD ADJUST AS NECESSARY OR AS DIRECTED.





PHASING

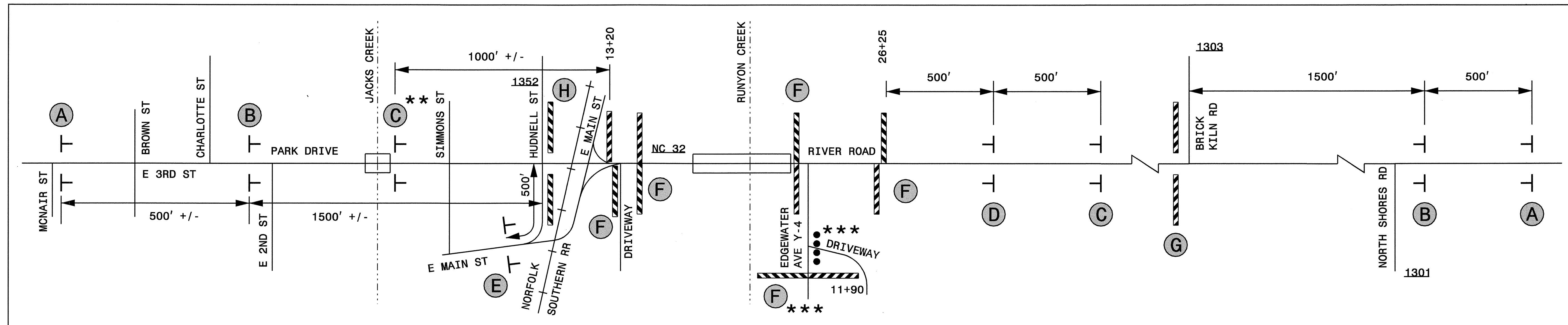
NOTIFY THE ENGINEER 21 DAYS PRIOR TO ROAD CLOSURE. STATE FORCES WILL INSTALL THE TEMPORARY SIGNAL & DETOUR SIGNING OFF THE PROJECT LIMITS.

- STEP 1 INSTALL ADVANCED WARNING SIGNS AND TYPE III BARRICADES CLOSING NC 32 TO THROUGH TRAFFIC AS SHOWN ON TCP-3 AND IN ACCORDANCE WITH ROADWAY STANDARD DRAWING 1101.03, SHEETS 1 AND 2 OF 9. (SEE LOCAL NOTES 2, 3, 5, AND 6)
- STEP 2 CONSTRUCT THE FOLLOWING WITHIN THE ROAD CLOSURE USING FLAGGERS AS REQUIRED: (SEE LOCAL NOTE 1)
 -REMOVE THE EXISTING STRUCTURE.
 -CONSTRUCT THE PROPOSED STRUCTURE.
 -CONSTRUCT THE PROPOSED ROADWAY SECTION -L- AND -Y4- UP TO BUT NOT INCLUDING THE FINAL LAYER OF SURFACE. (SEE LOCAL NOTE 3)
- STEP 3 USING ROADWAY STANDARD DRAWING 1101.02 SHEET 1 OF 9 AS NEEDED CONSTRUCT THE FOLLOWING: (SEE LOCAL NOTE 1)
 -PLACE THE FINAL LAYER OF SURFACE COURSE ON -L- AND -Y4-.
 -PLACE THE FINAL PAVEMENT MARKINGS ON -L- AND -Y4-.
- STEP 4 REMOVE ALL BARRICADES AND OPEN ROAD TO THROUGH TRAFFIC. REMOVE ALL ADVANCED WARNING SIGNS. (SEE LOCAL NOTE 2)

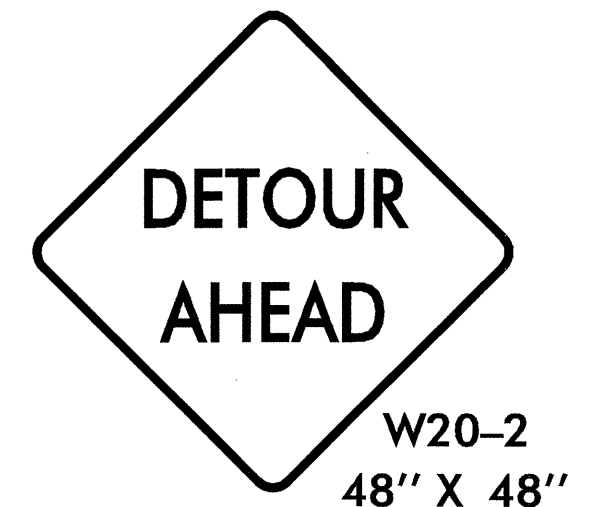
 COORDINATE WITH ENGINEER TO COVER OR REMOVE ALL DETOUR SIGNS AFTER ROADWAY HAS BEEN RE-OPENED.

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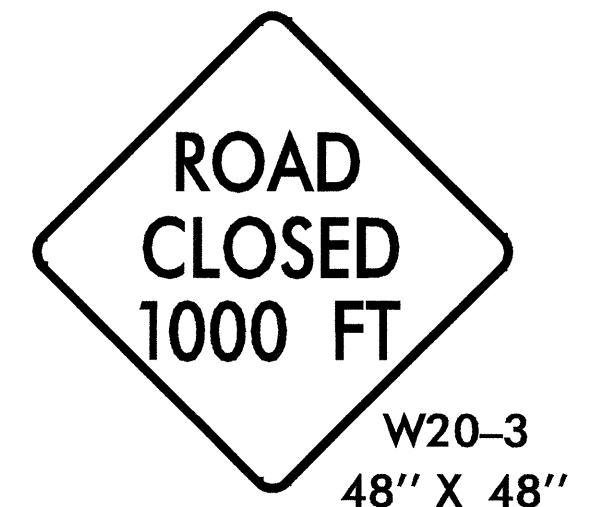
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A
(4 EA)



B
(4 EA)



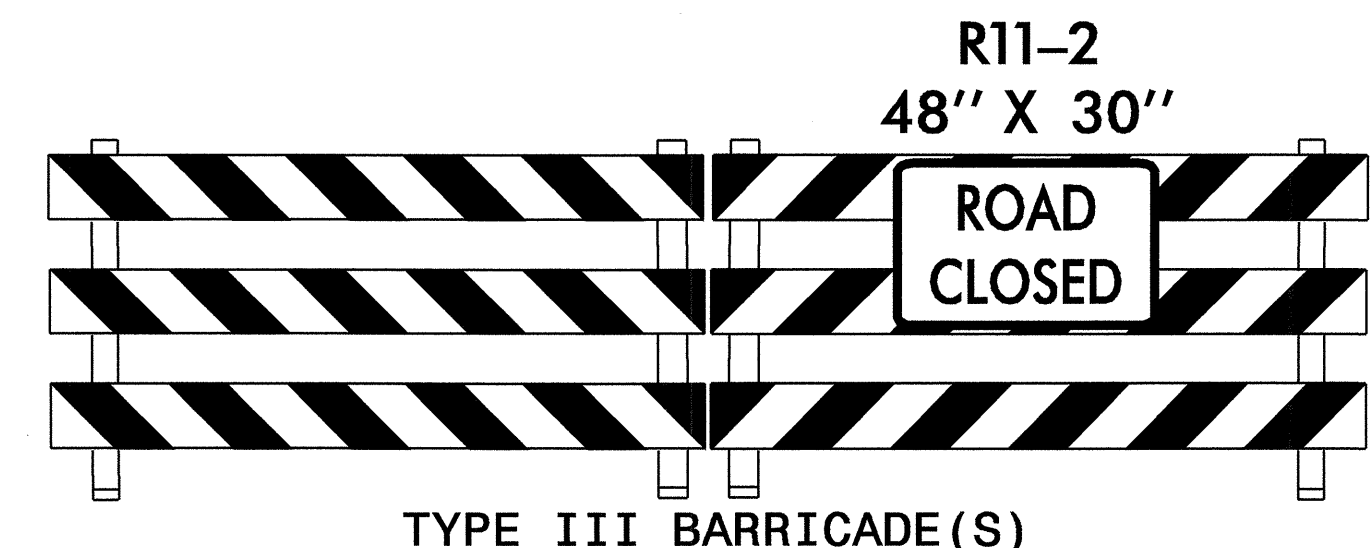
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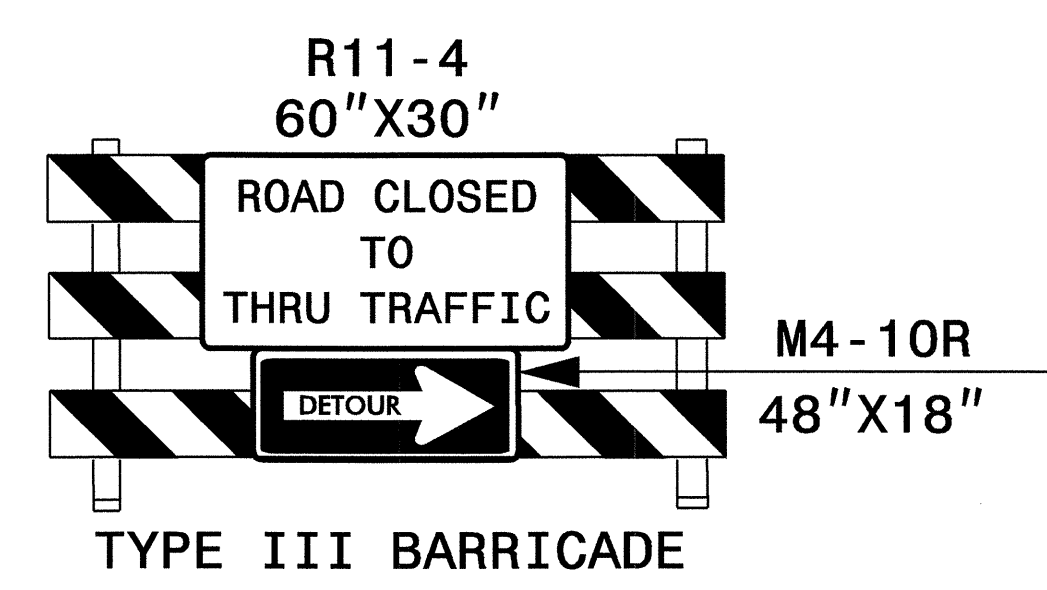
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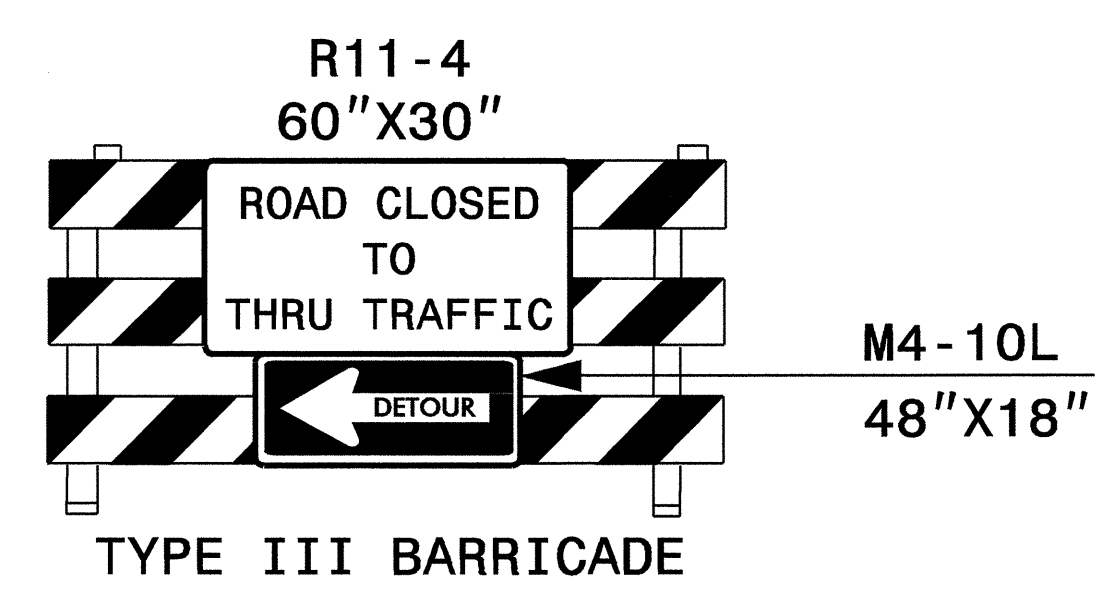
E
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F
(5 SETS*)



G
(2 EA)



H
(2 EA)

*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.

**PLACE "ROAD CLOSED" 1000 FT SIGN EAST OF THE BRIDGE OVER JACKS CREEK.

***BARRICADE CLOSING Y4 AND DRUMS CLOSING THE DRIVEWAY ARE TO BE PLACED WHEN ROADWAY SECTION IS CONSTRUCTED IN STEP 2.

APPROVED: <i>Jessica D. Kusner</i> DATE: 11/26/08	OFF-SITE DETOUR ROAD CLOSURE	
SEAL		
	SCALE: NONE	
	DATE: 06/08	
	DWG. BY: BLL	
	DESIGN BY: BLL	
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