

STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

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

STATE PROJECT REFERENCE NO.	SHEET NO.
B-5020	TCP-1

BRIDGE NO. 62, 67, 109 AND 112

B-5020

ROADWAY STANDARD DRAWINGS

THE FOLLOWING ROADWAY STANDARDS AS APPEAR IN "ROADWAY STANDARD DRAWINGS"-ROADWAY DESIGN 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
1101.11	TRAFFIC CONTROL DESIGN TABLES
1110.01	STATIONARY WORK ZONE SIGNS
1110.02	PORTABLE WORK ZONE SIGNS
1115.01	FLASHING ARROW PANELS
1130.01	DRUM
1145.01	BARRICADES
1150.01	FLAGGING DEVICES
1165.01	TRUCK MOUNTED IMPACT ATTENUATOR
1205.01	PAVEMENT MARKINGS - LINE TYPES & OFFSETS
1205.02	PAVEMENT MARKINGS - 2 LANE & MULTILANE ROADWAYS
1205.03	PAVEMENT MARKINGS - INTERCHANGES
1205.04	PAVEMENT MARKINGS - INTERSECTIONS
1205.05	PAVEMENT MARKINGS - TURN LANES
1205.12	PAVEMENT MARKINGS - BRIDGES
1250.01	PAVEMENT MARKER SPACING
1251.01	RAISED PAVEMENT MARKERS (TEMPORARY & PERMANENT)
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, INDEX OF SHEETS
TCP-2	PROJECT NOTES
TCP-3	BRIDGE NO. 62 PHASING AND PAVEMENT MARKING SCHEDULE
TCP-4	BRIDGE NO. 62 DETOUR AND SIGNING
TCP-5	BRIDGE NO. 67 PHASING AND PAVEMENT MARKING SCHEDULE
TCP-6	BRIDGE NO. 67 DETOUR ROUTE
TCP-7	BRIDGE NO. 67 DETOUR SIGNING KEY
TCP-8	BRIDGE NO. 67 BARRICADE KEY
TCP-9	BRIDGE NO. 109 PHASING AND PAVEMENT MARKING SCHEDULE
TCP-10	BRIDGE NO. 109 DETOUR AND SIGNING
TCP-11	BRIDGE NO. 112 PHASING AND PAVEMENT MARKING SCHEDULE
TCP-12	BRIDGE NO. 112 DETOUR AND SIGNING
SD-1	SPECIAL SIGN DESIGNS

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
 - WARNING FLAGS
 - 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:

06-JUN-2008 14:32
\\DOT\DFSROOT\ION\GR01\PS-WZT\CCC\design\group\adg\isab\pdtel\B-5020\combined all 4 br\ldges\b-5020.br\ldges.dgn
akpatel AT WZT\224097

APPROVED: DATE: June 9, 2008	PLAN PREPARED BY: N.C.D.O.T. WORK ZONE TRAFFIC CONTROL UNIT
SEAL 	STUART BOURNE, P.E. TRAFFIC CONTROL ENGINEER J. STEVE KITE, P.E. TRAFFIC CONTROL PROJECT ENGINEER DON PARKER TRAFFIC CONTROL PROJECT DESIGN ENGINEER ASHVIN PATEL TRAFFIC CONTROL DESIGN ENGINEER / TECHNICIAN

BRIDGE NO. 67 US 701

NOTE : BRIDGE NO. 62 AND BRIDGE NO. 67 SHALL NOT BE REPLACED SIMULTANEOUSLY. SEE PROJECT SPECIAL PROVISION

BRIDGE NO. 67 MUST BE COMPLETE AND RE-OPENED TO TRAFFIC IN ACCORDANCE WITH ICT NO. 2

PHASING

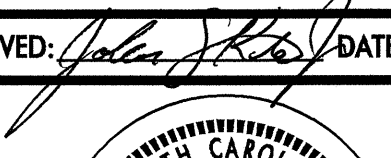
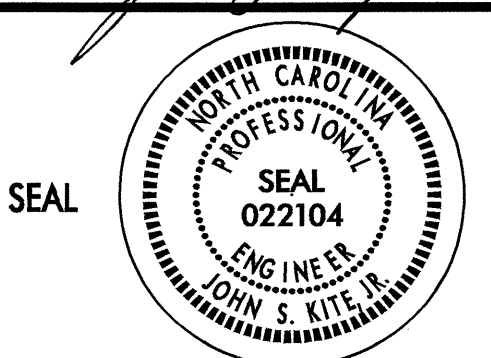
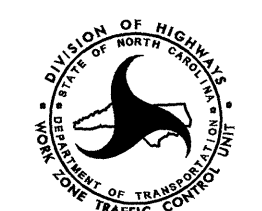
SEE ICT NO. 2 AND LIQUIDATED DAMAGES

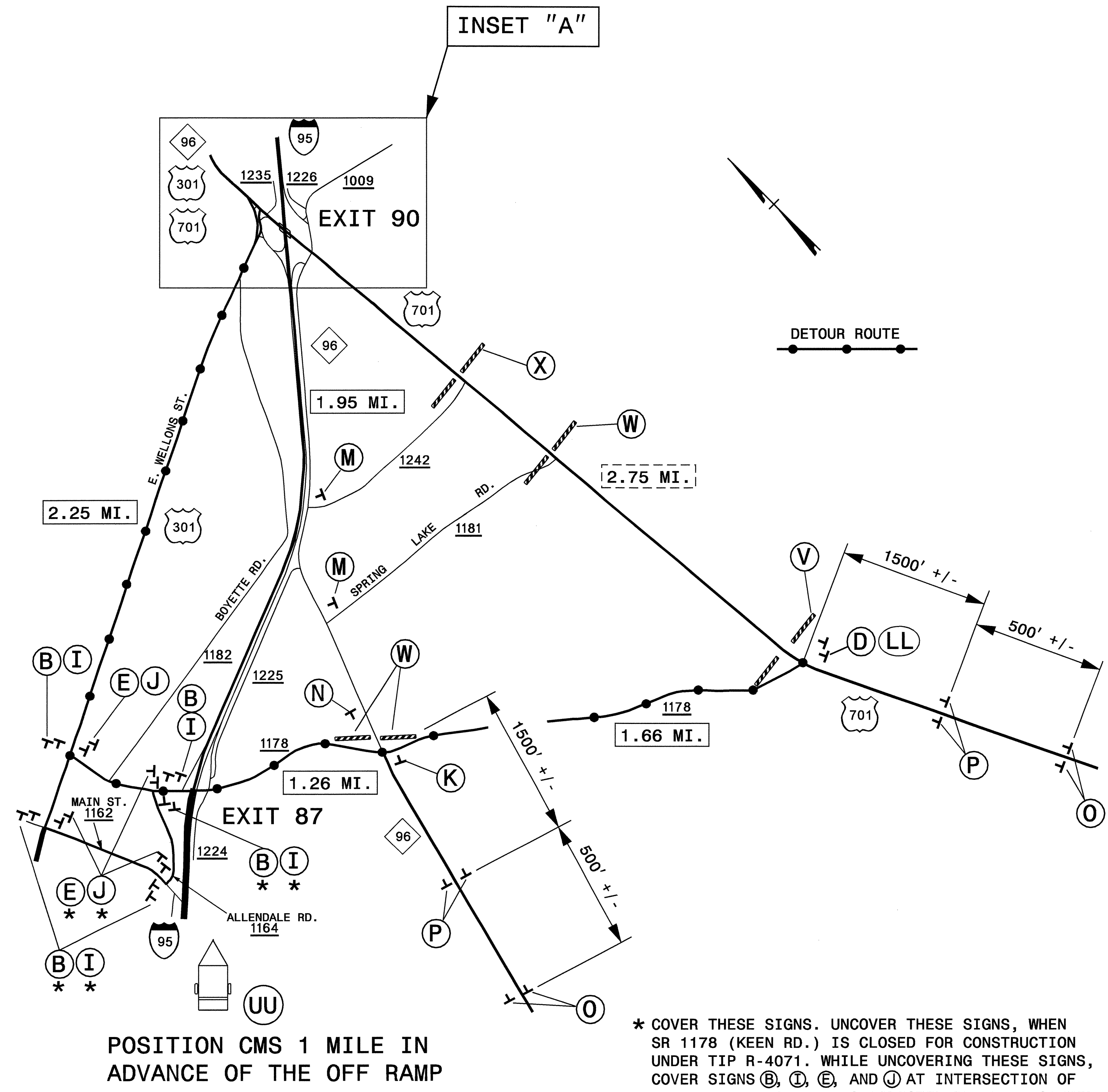
- STEP 1 -- INSTALL OFF-SITE DETOUR SIGNING IN ACCORDANCE WITH TCP-6 THRU TCP-8. SIGNING SHALL BE COVERED UNTIL BRIDGE JACKING OPERATIONS BEGIN.
- STEP 2 -- UNCOVER DETOUR SIGNING AND CLOSE US 701. (SEE TCP-6 THRU TCP-8 AND RSD 1101.03)
- STEP 3 -- USING LANE CLOSURES ON I-95, PERFORM BRIDGE JACKING OPERATIONS, INCLUDING JACKING, CAP REPAIR, BEARING REPLACEMENT, LOWERING, ETC. (SEE RSD 1101.02).
NOTE: ALL LANES ARE TO BE REOPENED BY 6:00 A.M. FRIDAY.
- STEP 4 -- AWAY FROM TRAFFIC, PLACE WEARING SURFACE, FINAL MARKINGS, AND MARKERS ON US 701.
- STEP 5 -- RE-OPEN US 701 TO TRAFFIC AND REMOVE DETOUR SIGNING.
- STEP 6 -- REMOVE ALL TRAFFIC CONTROL DEVICES.

PAVEMENT MARKING SCHEDULE

DESCRIPTION	#67 QUANTITY BREAKDOWN	TOTAL QUANTITY
	<u>THERMOPLASTIC (4", 90 MILS)</u>	
WHITE EDGELINE	1600 LF	1600 LF.
	<u>THERMOPLASTIC (4", 120 MILS)</u>	
YELLOW DOUBLE CENTERLINE	1600 LF	1600 LF.
	<u>PERMANENT RAISED MARKERS</u>	
YELLOW AND YELLOW	11 EA.	11 EA.

06-JUN-2008 14:34
\\DOT\DFSROOT\GROUPS\WZTCCC\design\group\dglisab\partel\B-5020\combined all4 bridges\B-5020_bridges.dgn
akpatel AT WZTCCC24097

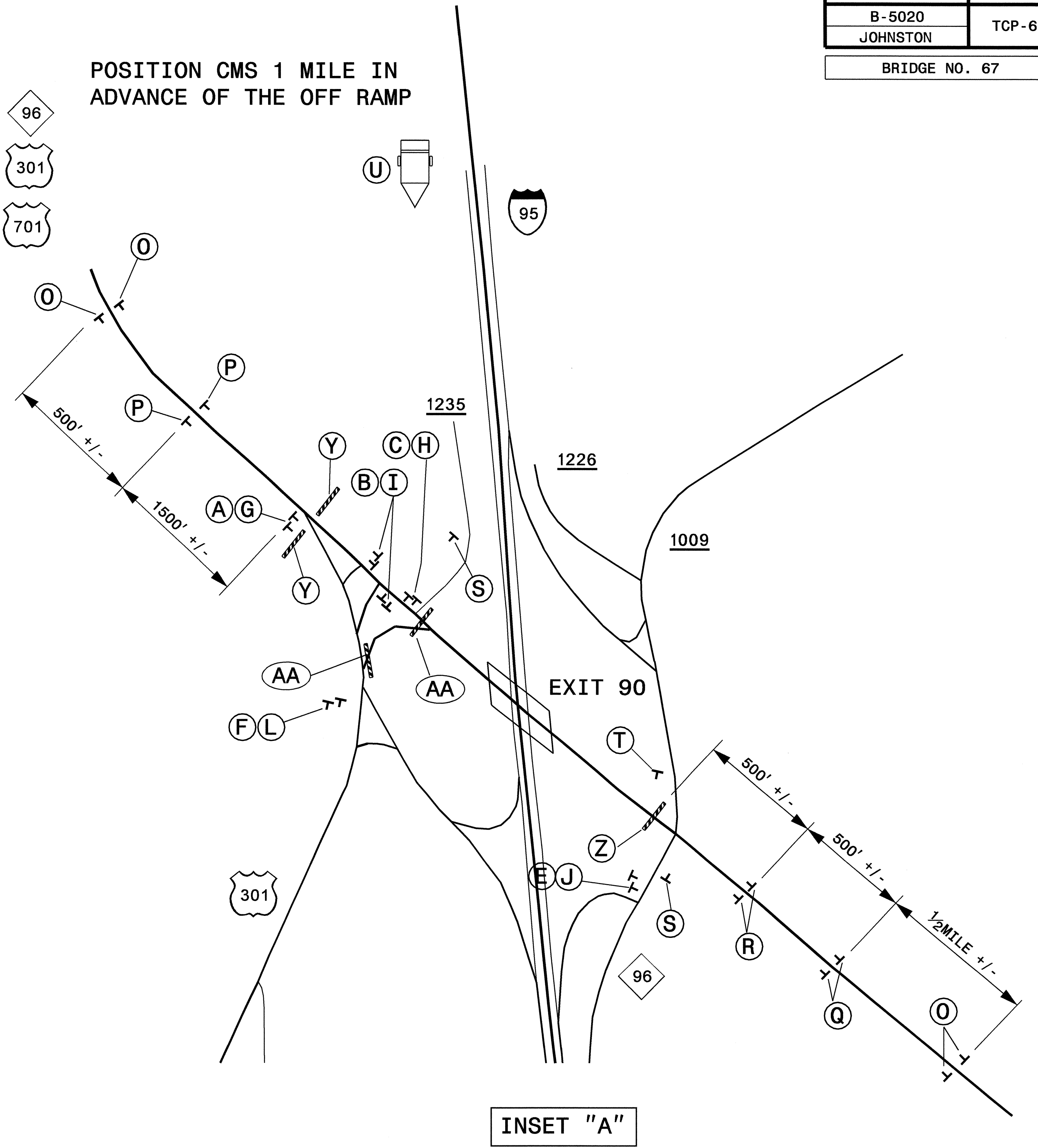
APPROVED: 	DATE: 6/9/08	BRIDGE NO. 67 PHASING AND PAVEMENT MARKING SCHEDULE	
	SCALE: NONE		REVISIONS
	DATE: 03/08		
	DWG. BY: AKP		
	DESIGN BY: AKP		
REVIEWED BY: DAP			



POSITION CMS 1 MILE IN ADVANCE OF THE OFF RAMP

* COVER THESE SIGNS. UNCOVER THESE SIGNS, WHEN SR 1178 (KEEN RD.) IS CLOSED FOR CONSTRUCTION UNDER TIP R-4071. WHILE UNCOVERING THESE SIGNS, COVER SIGNS (B), (I), (E), AND (J) AT INTERSECTION OF SR 1178 AND US 301, AS DIRECTED BY THE ENGINEER.

DETOUR ROUTE AND SIGNING
BRIDGE NO 67 OVER I-95 - EXIT 90

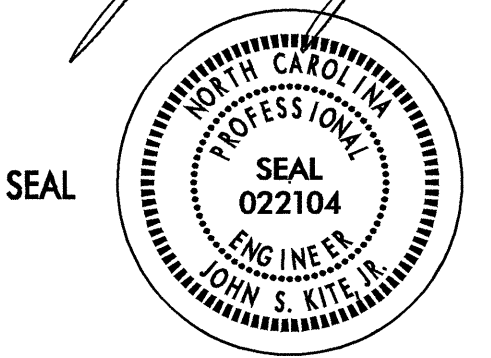



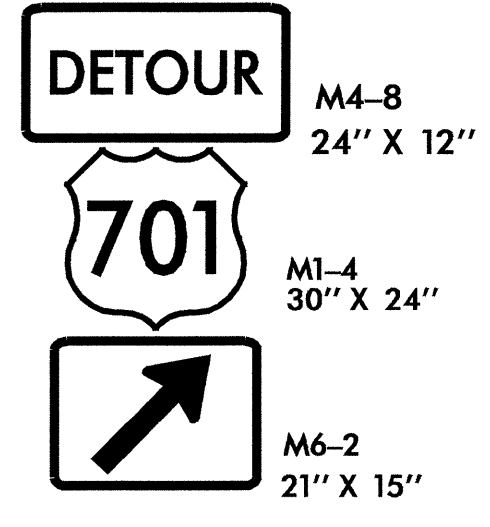
POSITION CMS 1 MILE IN ADVANCE OF THE OFF RAMP

INSET "A"

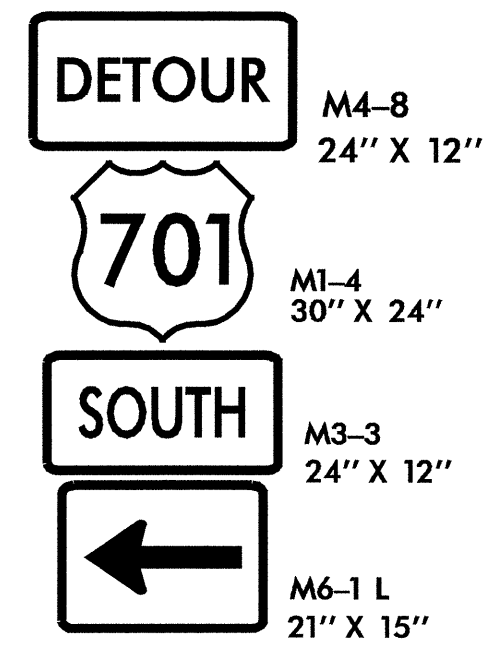
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akpdtel AT WZTCC224057

USE RSD 1101.02, SHEET 3 OF 9 TO SET UP LANE CLOSURES ON I-95 AS NECESSARY
SEE TCP-7 AND 8 FOR SIGNING KEY
SEE RSD 1101.03, SHEET 1 OF 9 FOR DETOUR GENERAL NOTES

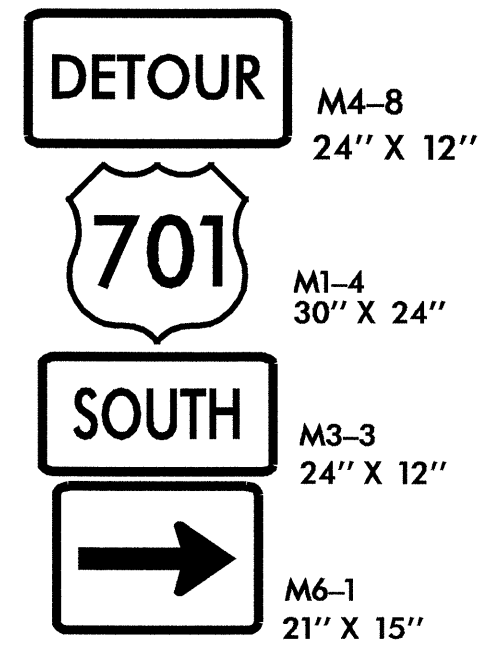
APPROVED: <i>[Signature]</i> DATE: 4/9/08	BRIDGE NO. 67 DETOUR ROUTE		REVISIONS	
			SCALE: NONE	
	DATE: 03/08			
	DWG. BY: AKP			
	DESIGN BY: AKP			
	REVIEWED BY: DAP			



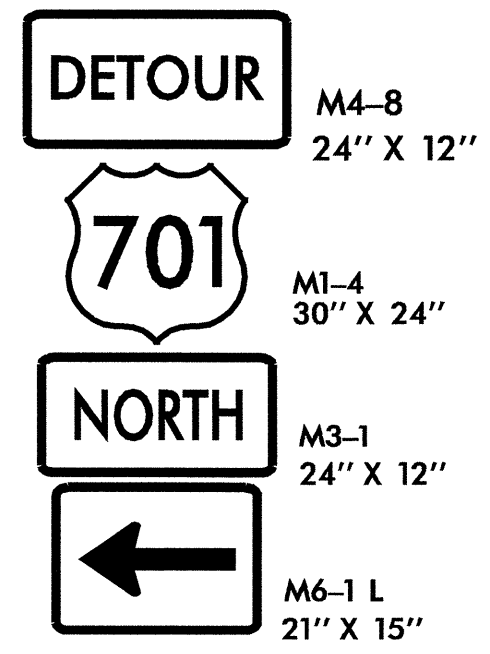
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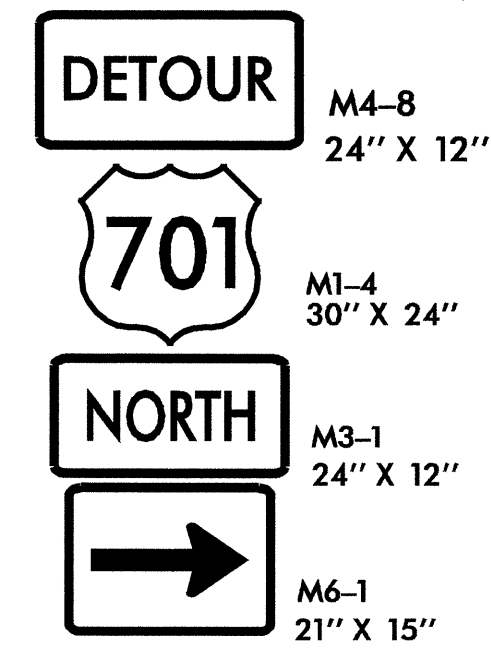
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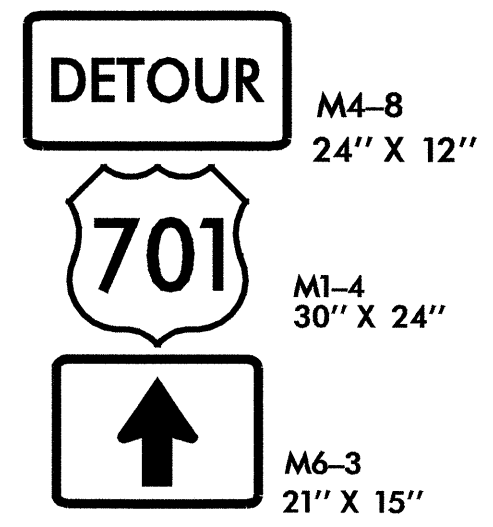
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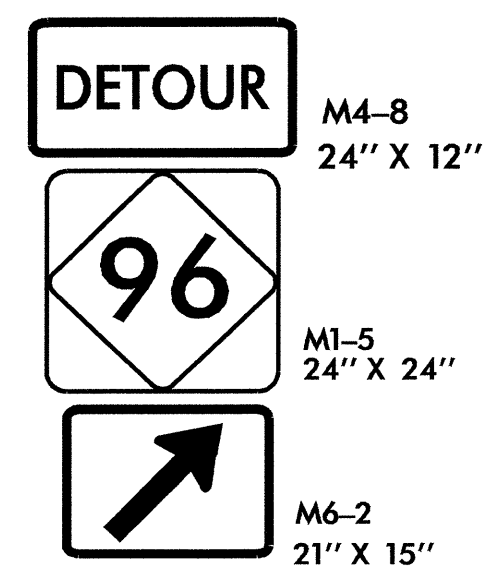
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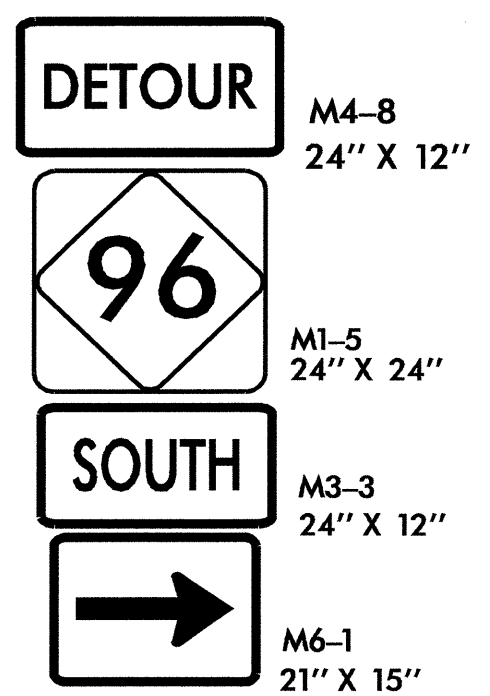
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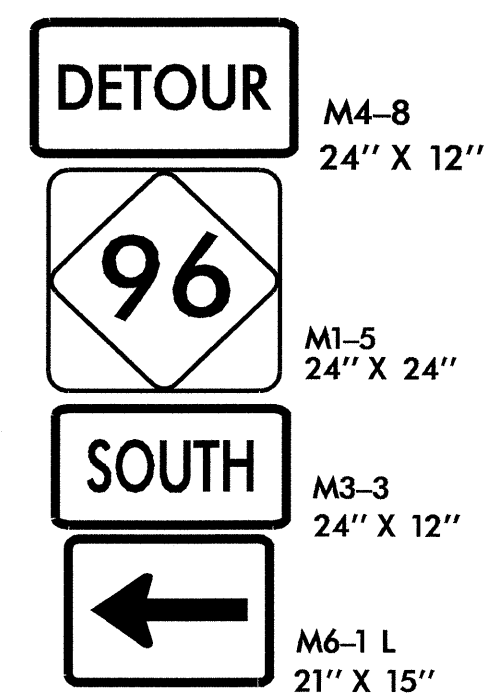
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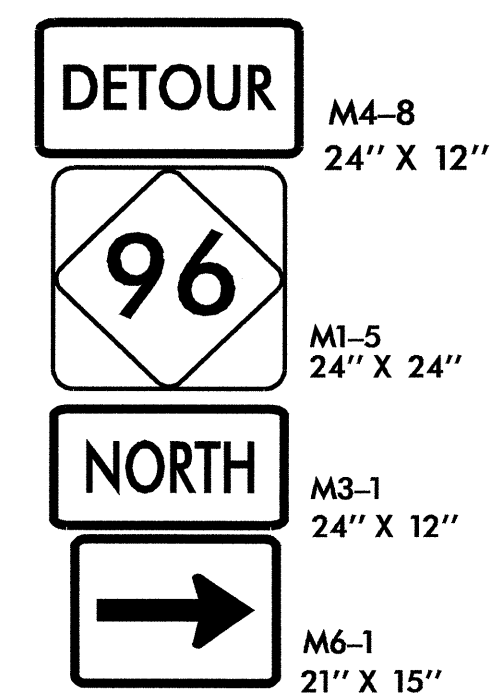
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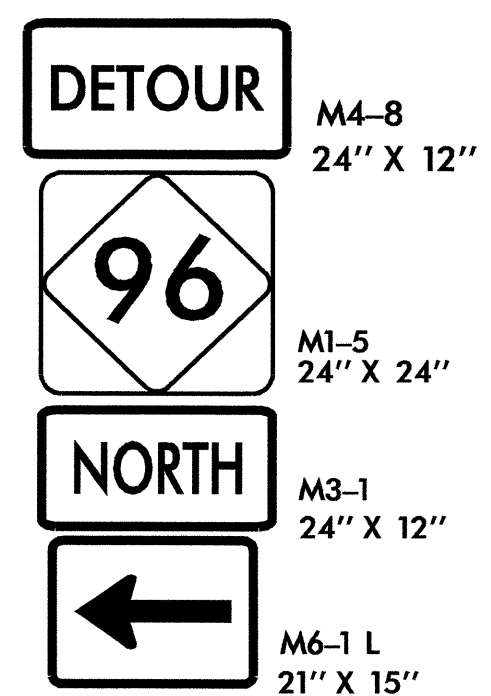
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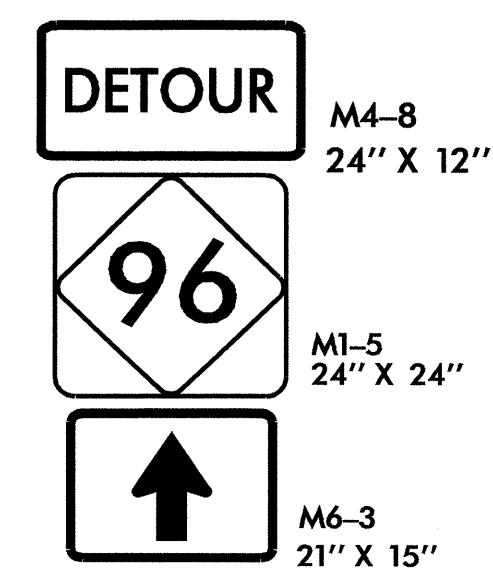
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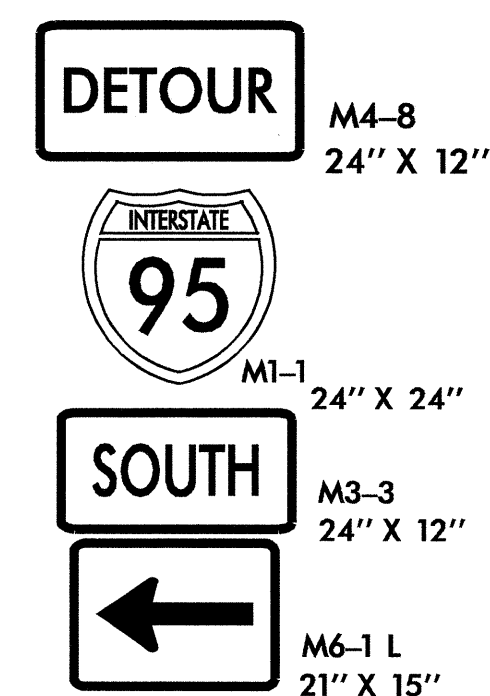
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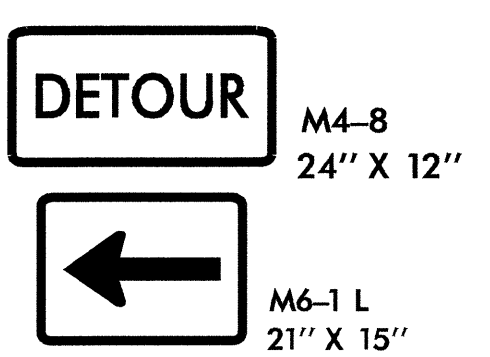
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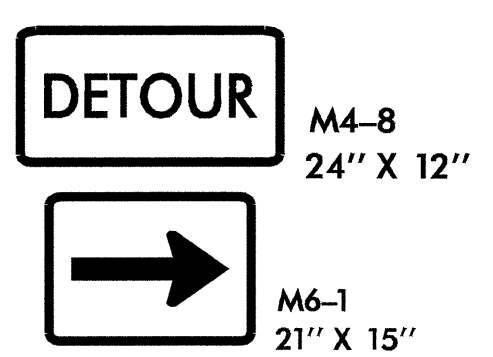
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(LL)



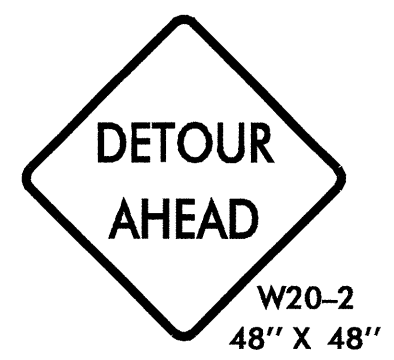
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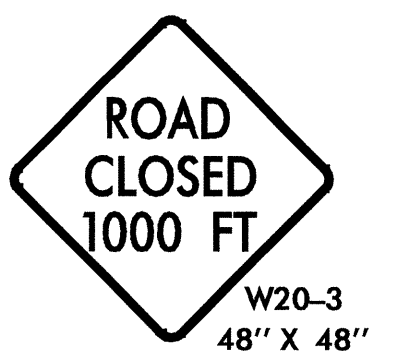
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(O)



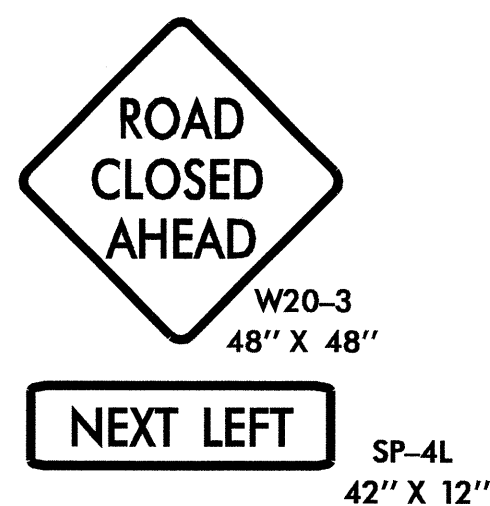
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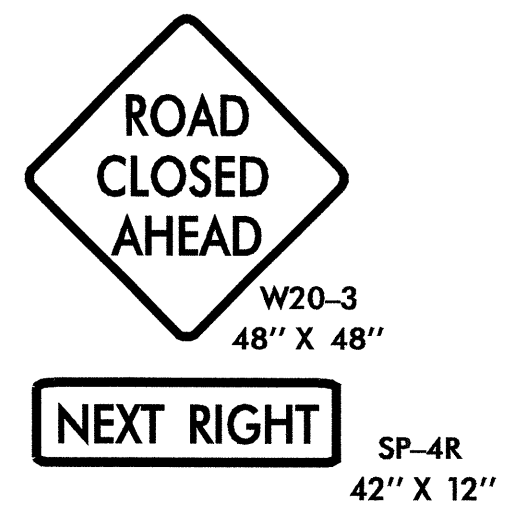
(Q)



(R)



(S)



(T)

MESSAGE NO. 1	MESSAGE NO. 2
US 701 NEWTON GROVE	USE EXIT 87

CHANGEABLE MESSAGE SIGN

(U)

MESSAGE NO. 1	MESSAGE NO. 2
US 301 SMITH FIELD	USE EXIT 87

CHANGEABLE MESSAGE SIGN

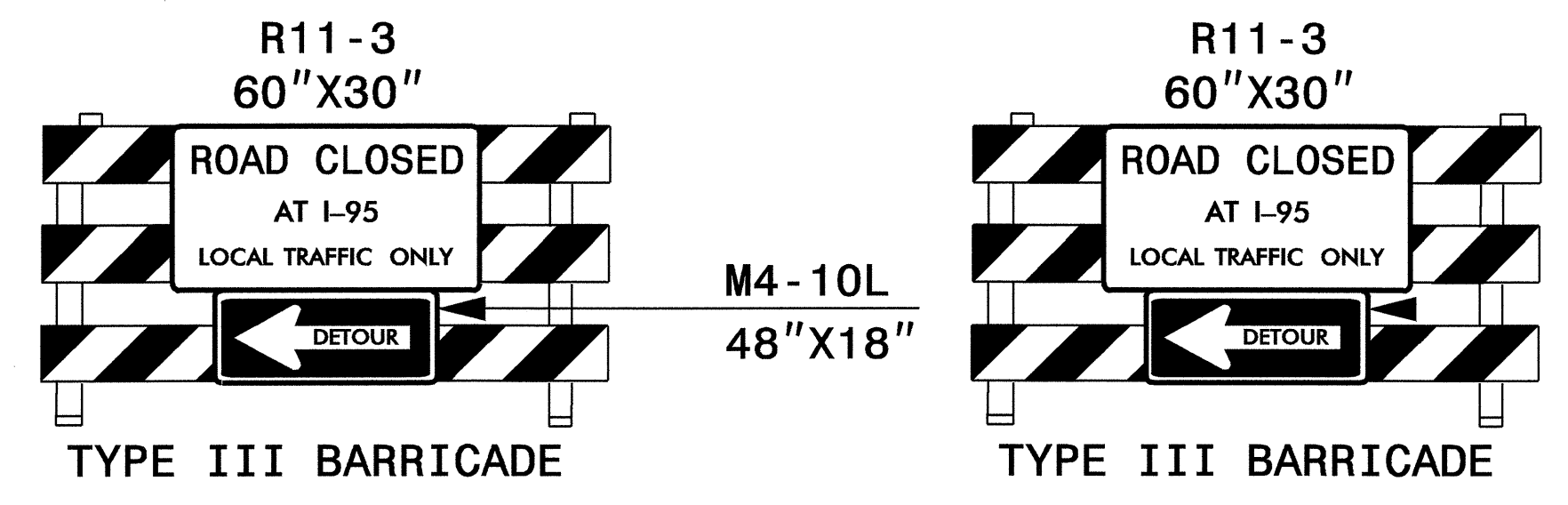
(UU)

APPROVED: *John S. Kitt Jr.* DATE: 6/19/08

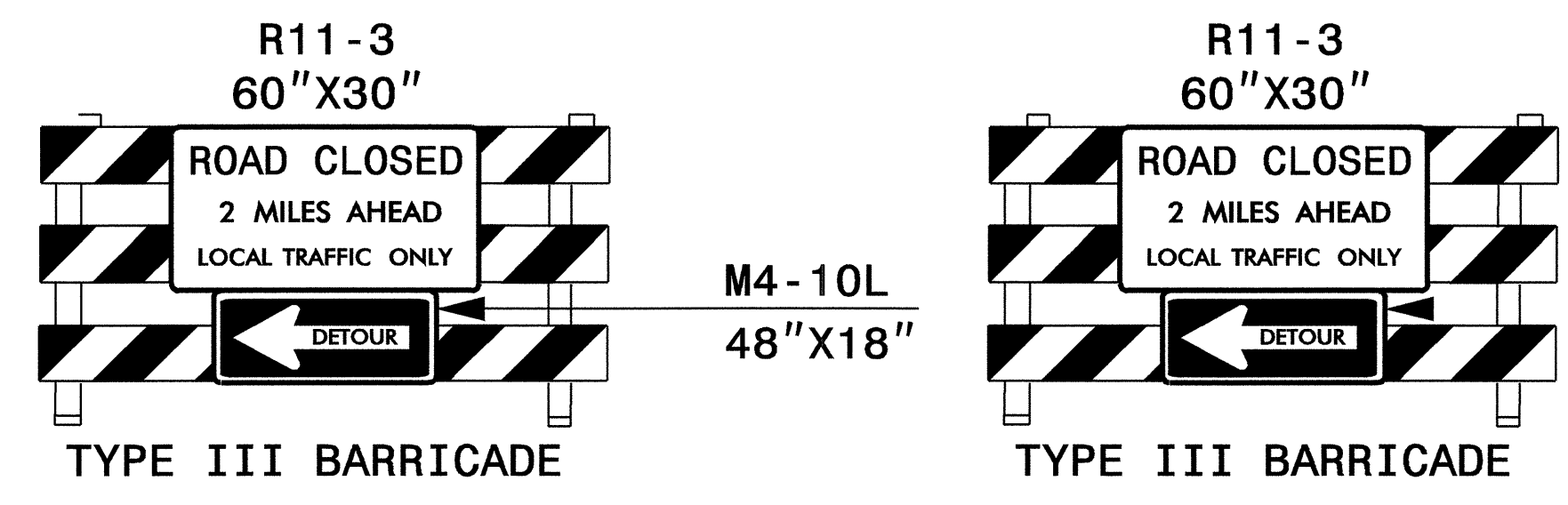
**BRIDGE NO. 67
DETOUR SIGNING KEY**

SCALE:	NONE		REVISIONS
DATE:	03/08		
DWG. BY:	AKP		
DESIGN BY:	AKP		
REVIEWED BY:	DAP		CADD FILE

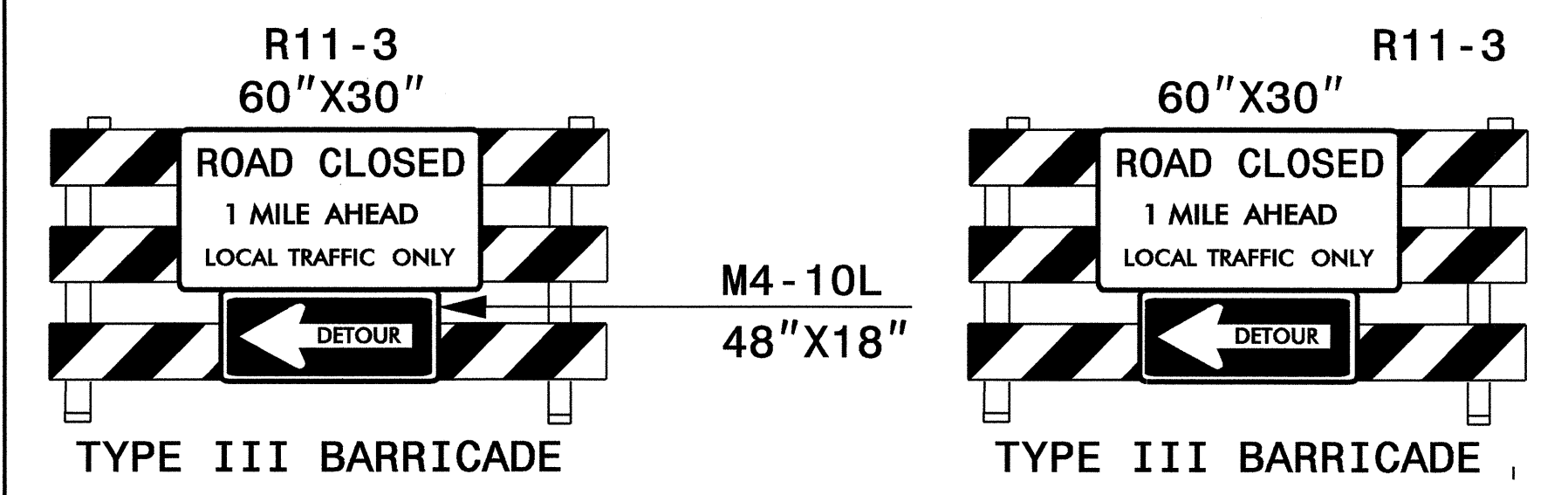
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dkpatel AT WZTCCC24091



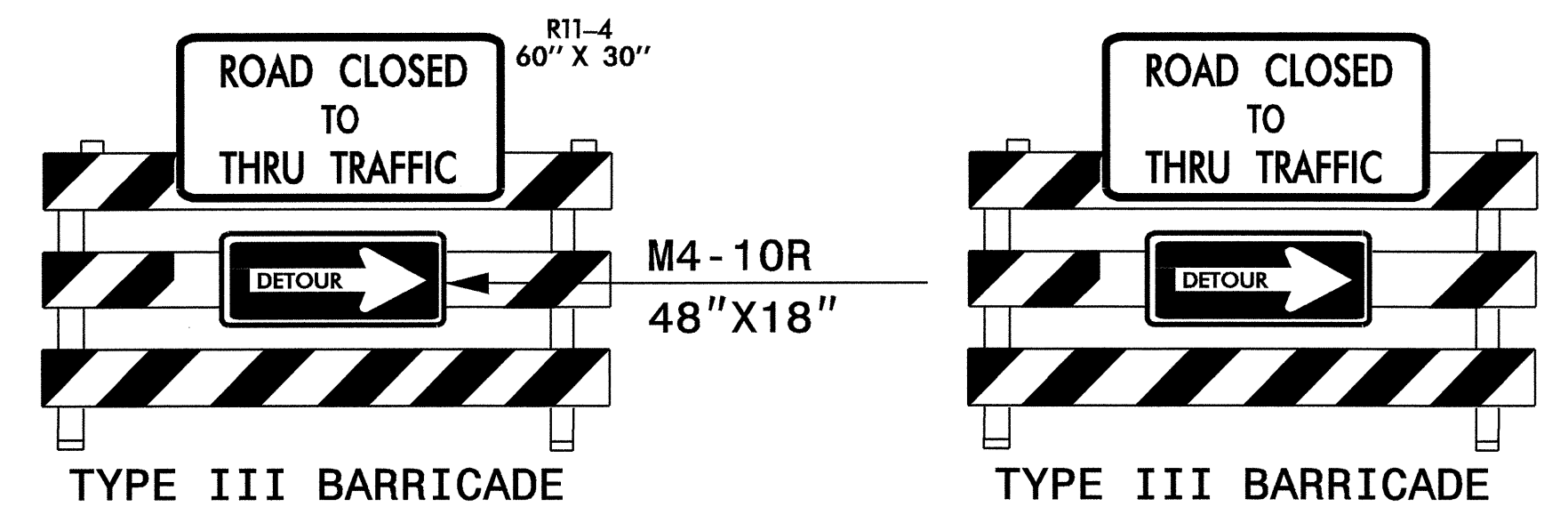
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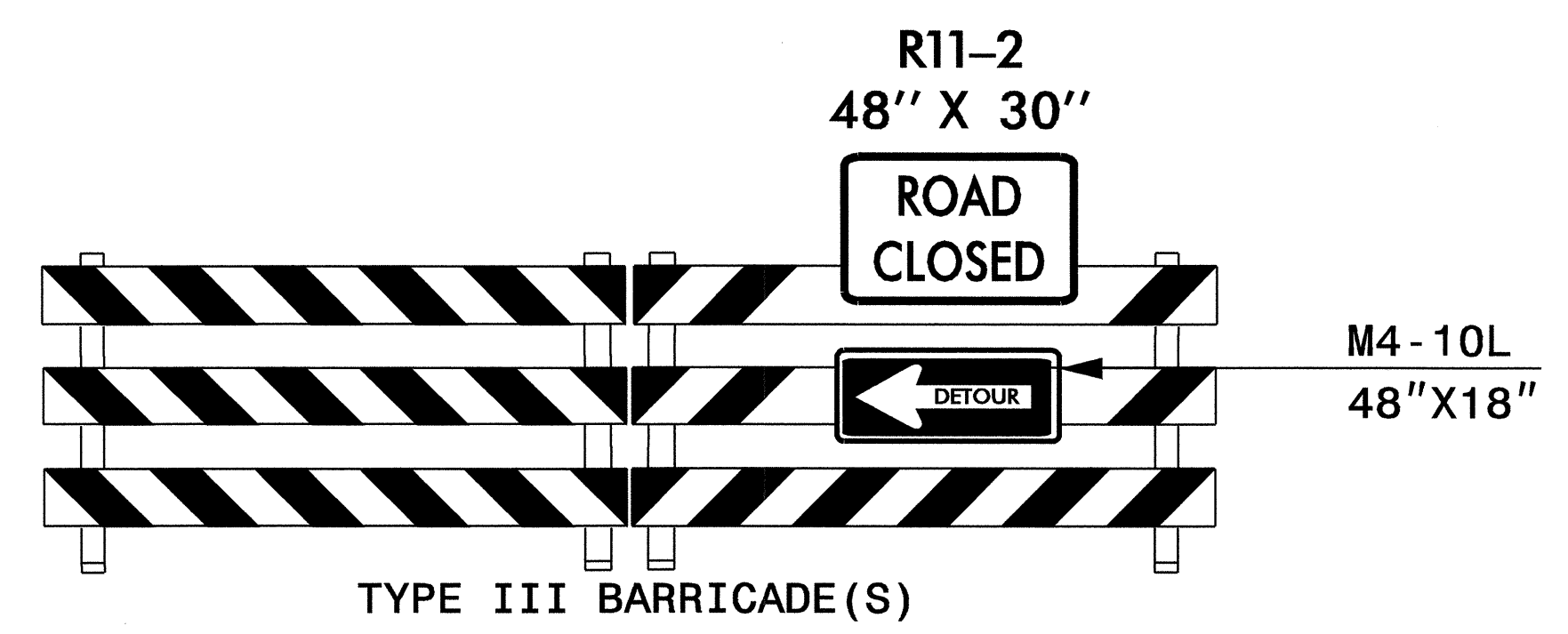
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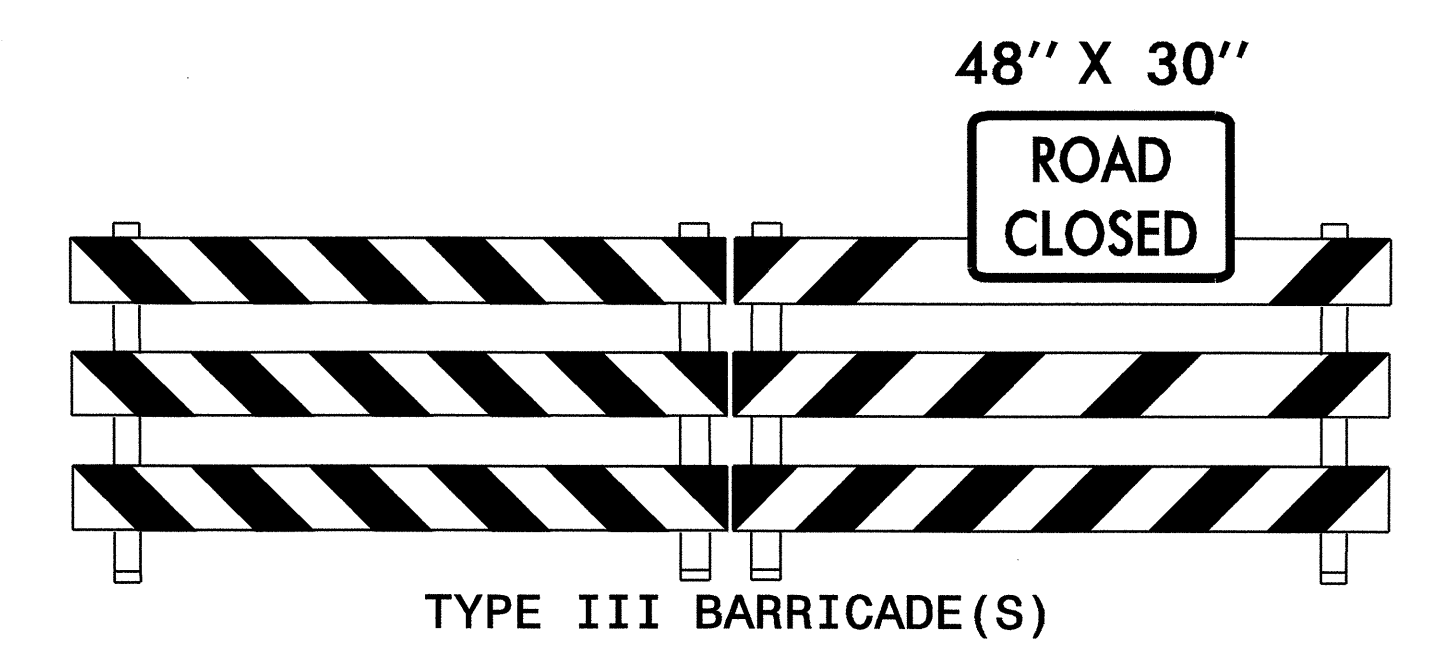
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Y



Z



AA

06-JUN-2008 14:36 \\001\DFSROOT\GROUPS-WZTccc\designgroup\dglsqb\pdtel\B-5020\combined all 4 bridges\B-5020_bridges.dgn
akbatel AT WZTC224097

APPROVED:	DATE: 4/20/08	BRIDGE NO. 67 BARRICADE KEY	
SCALE: NONE	DATE: 03/08		REVISIONS
DWG. BY: AKP	DESIGN BY: AKP		
REVIEWED BY: DAP			

PROJ. REFERENCE NO.	SHEET NO.
B-5020	TCP-9
JOHNSTON	

BRIDGE NO. 109

BRIDGE NO. 109 PITTMAN ROAD

NOTE : BRIDGE NO. 109 AND BRIDGE NO. 112 SHALL NOT BE REPLACED SIMULTANEOUSLY. SEE PROJECT SPECIAL PROVISION

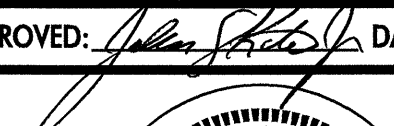

PHASING

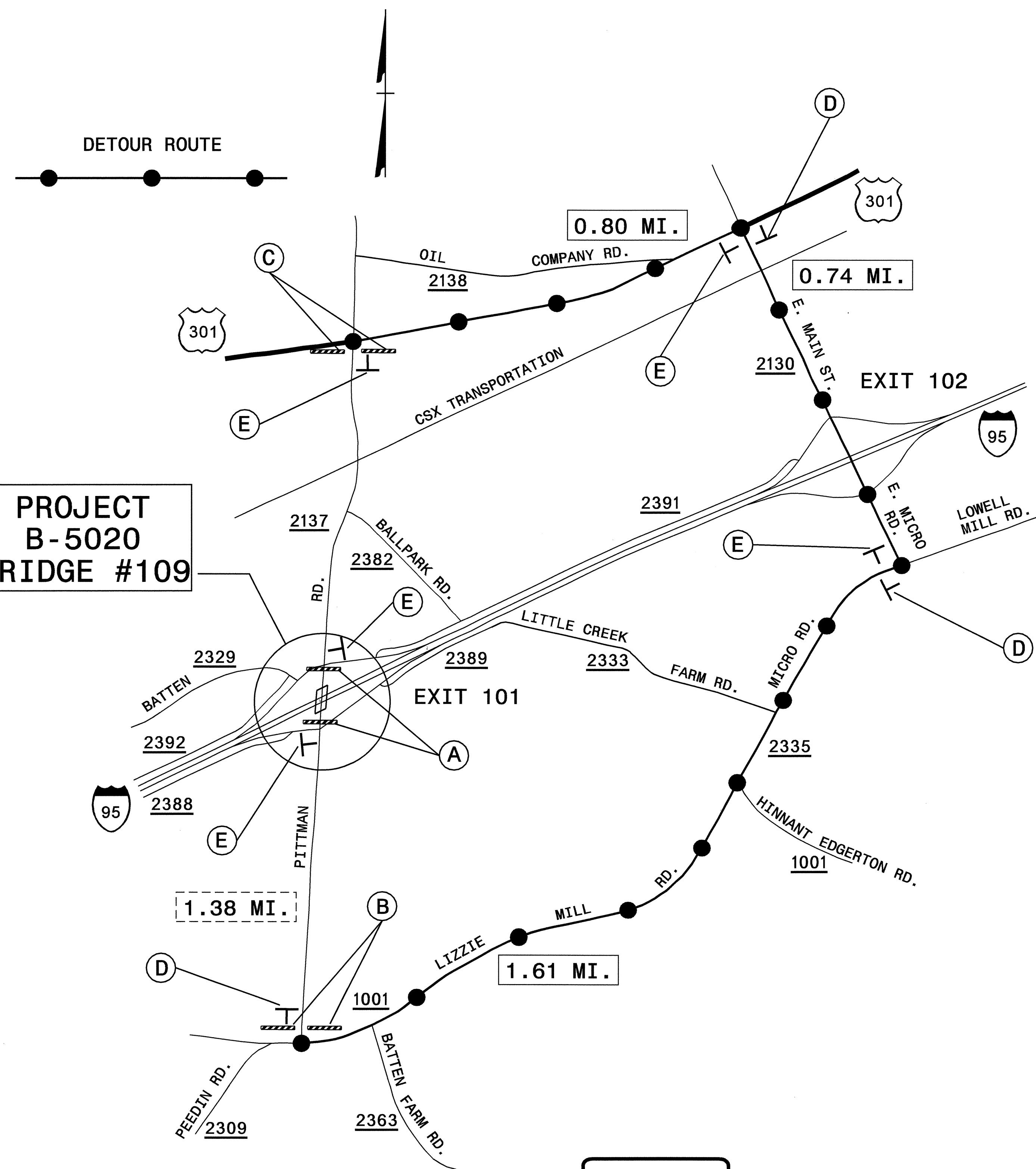
- STEP 1 -- INSTALL OFF-SITE DETOUR SIGNING IN ACCORDANCE WITH TCP-10. SIGNING SHALL BE COVERED UNTIL BRIDGE JACKING OPERATIONS BEGIN.
- STEP 2 -- UNCOVER DETOUR SIGNING AND CLOSE PITTMAN RD. (SEE TCP-10 AND RSD 1101.03)
- STEP 3 -- USING LANE CLOSURES ON I-95, PERFORM BRIDGE JACKING OPERATIONS, INCLUDING JACKING, CAP REPAIR, BEARING REPLACEMENT, LOWERING, ETC. (SEE RSD 1101.02).
NOTE: ALL LANES ARE TO BE REOPENED BY 6:00 A.M. FRIDAY.
- STEP 4 -- USING FLAGGERS AT THE TOP OF THE ON/OFF RAMPS, COMPLETE PAVING OPERATIONS (SEE RSD 1101.02)
- STEP 5 -- RE-OPEN PITTMAN RD. TO TRAFFIC AND REMOVE DETOUR SIGNING.
- STEP 6 - REMOVE ALL TRAFFIC CONTROL DEVICES.

PAVEMENT MARKING SCHEDULE

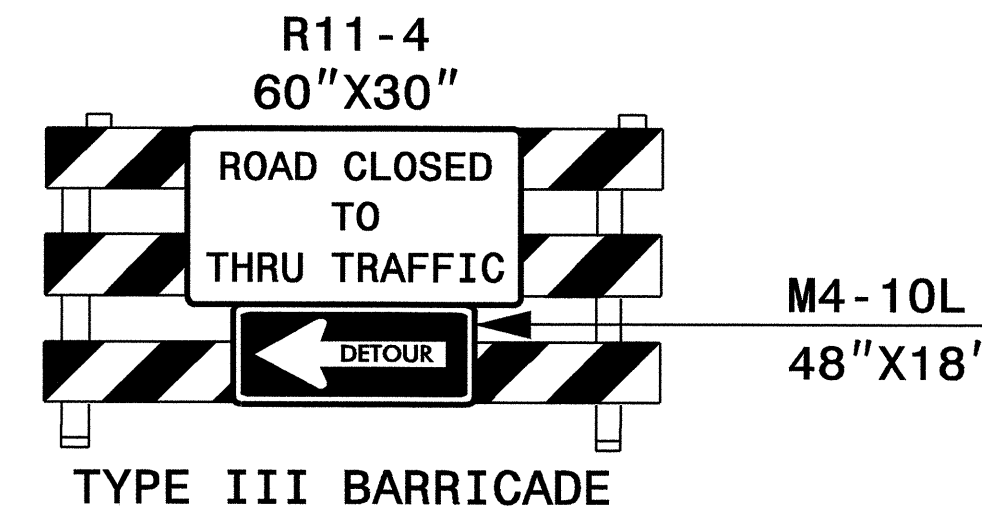
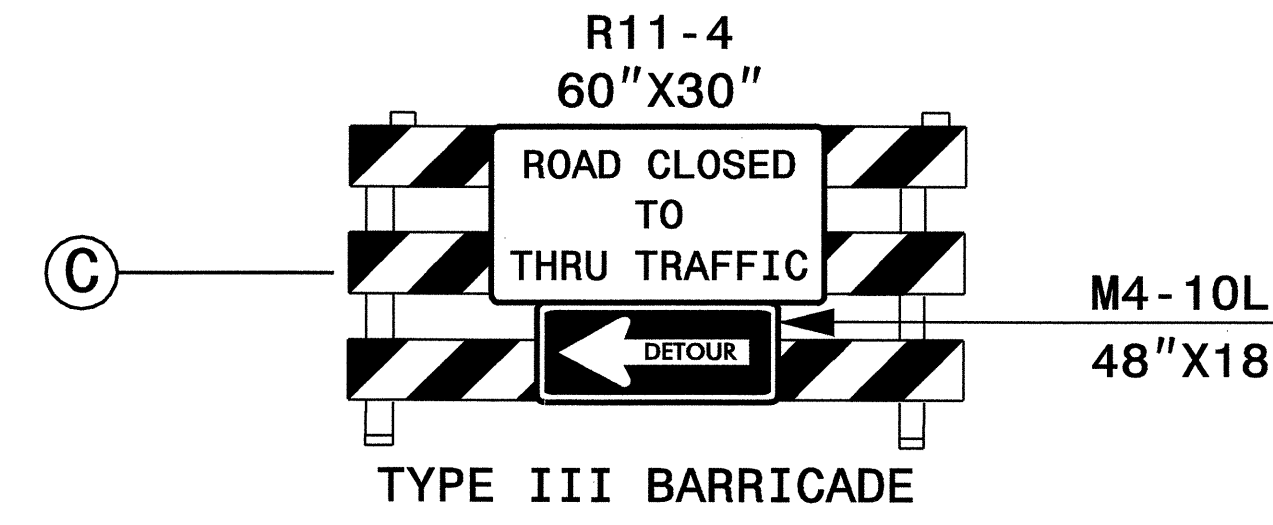
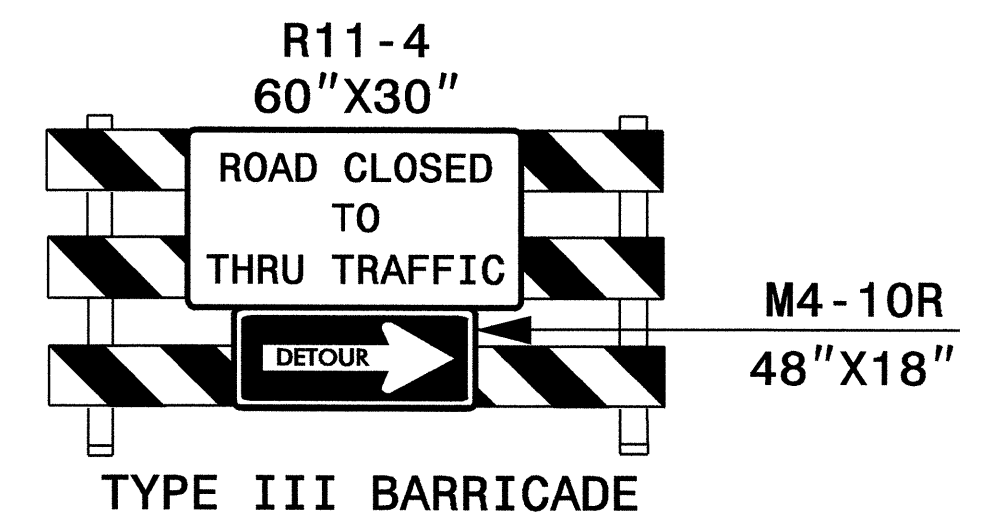
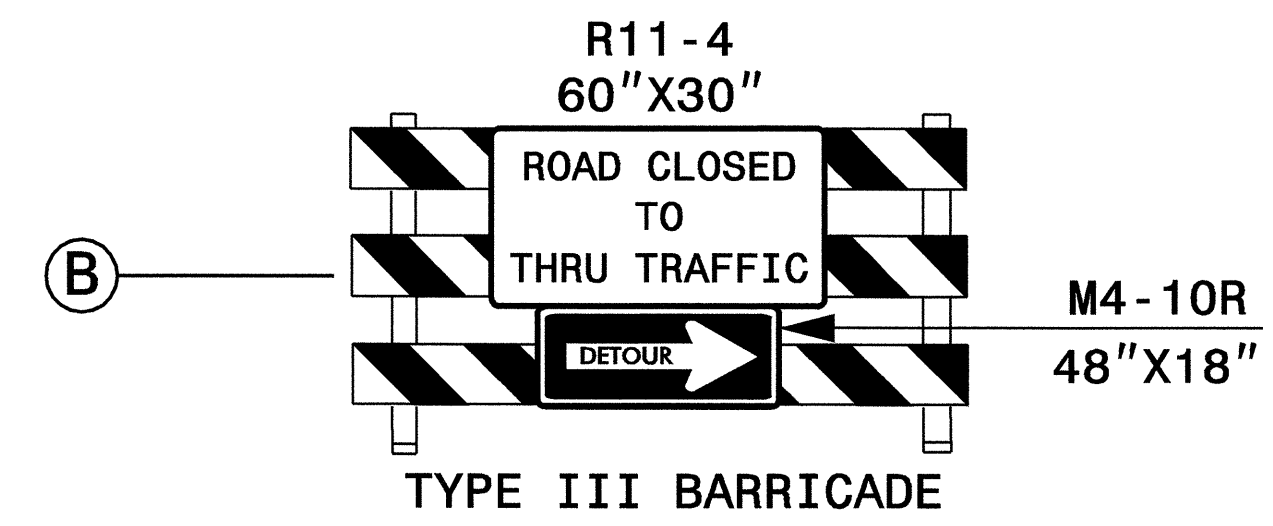
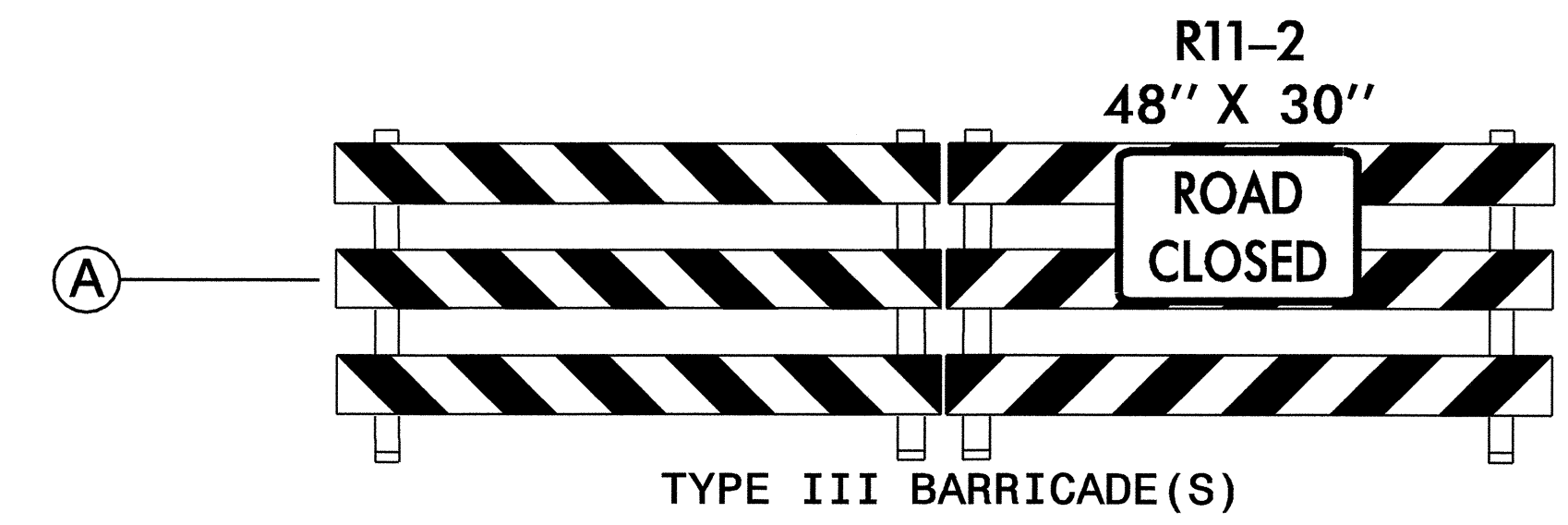
<u>DESCRIPTION</u>	<u>#109 QUANTITY BREAKDOWN</u>	<u>TOTAL QUANTITY</u>
	<u>THERMOPLASTIC (4", 90 MILS)</u>	
WHITE EDGELINE	2000 LF	2000 LF.
	<u>THERMOPLASTIC (4", 120 MILS)</u>	
YELLOW DOUBLE CENTERLINE	1800 LF	1800 LF.
	<u>THERMOPLASTIC (24", 120 MILS)</u>	
WHITE STOP BAR	160 LF	160 LF.
	<u>PERMANENT RAISED MARKERS</u>	
YELLOW AND YELLOW	13 EA.	13 EA.

06-JUN-2008 14:36 \\DOT\DFSROOT\TON.GROUPS-WZTCCC\design\group\p\dgl\sqb\pdtel\B-5020\combined all 4 bridges\B-5020_bridges.dgn akpdtel AT WZTCC224057

APPROVED:  DATE: 6/9/07 	BRIDGE NO. 109 PHASING AND PAVEMENT MARKING SCHEDULE				
SCALE: NONE DATE: 03/08 DWG. BY: AKP DESIGN BY: AKP REVIEWED BY: DAP	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: left;">REVISIONS</th> </tr> <tr> <td> </td> </tr> <tr> <td> </td> </tr> <tr> <td> </td> </tr> </table>	REVISIONS			
REVISIONS					

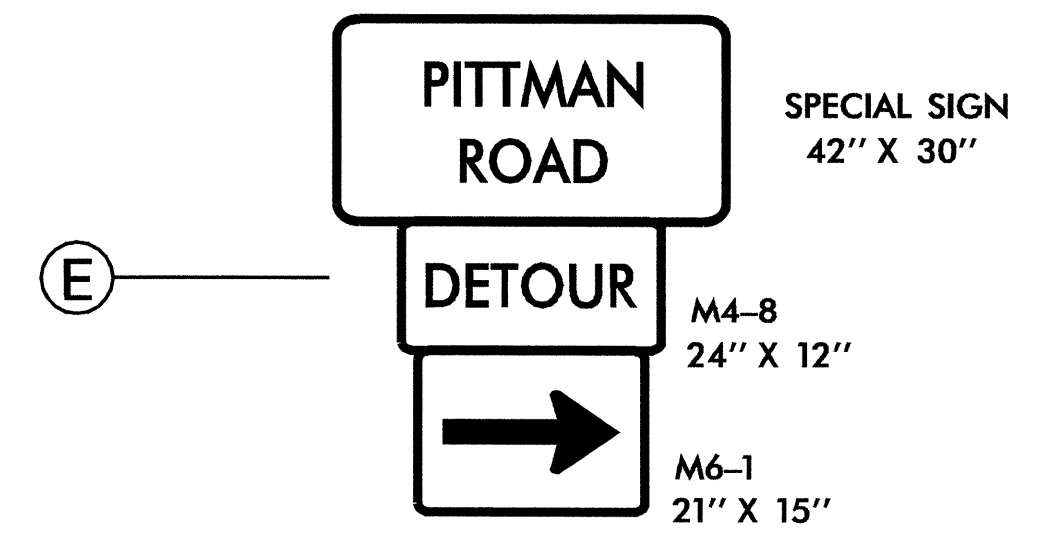
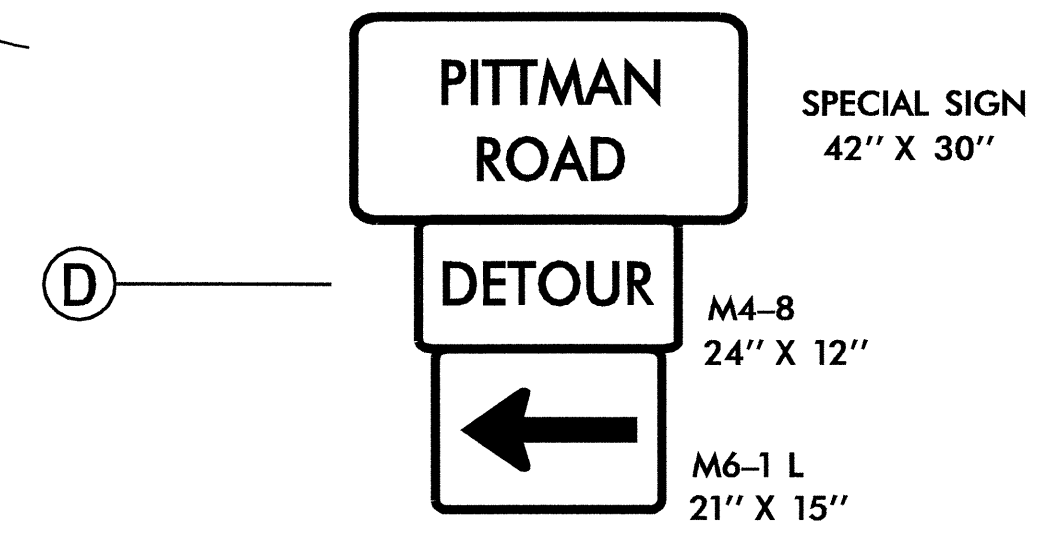


**PROJECT
B-5020
BRIDGE #109**



NOTE:

- SEE RSD 1101.03, SHEET 1 OF 9 FOR ADVANCE WARNING SIGNAGE, WING BARRICADE PLACEMENT, AND DETOUR GENERAL NOTES
- USE RSD 1101.02, SHEET 3 OF 9 TO SET UP LANE CLOSURES ON I-95 AS NECESSARY
- USE RSD 1101.02, SHEET 1 OF 9 FOR FLAGGING OPERATIONS ON PITTMAN ROAD
- SEE SD-1 FOR SPECIAL SIGN DESIGN



APPROVED: <i>[Signature]</i> DATE: 6/19/08	BRIDGE NO. 109 DETOUR AND SIGNING	
	SCALE: NONE	
	DATE: 02/08	
	DWG. BY: AKP	
	DESIGN BY: AKP	
REVIEWED BY: DAP	REVISIONS	

06-JUN-2008 14:36
 \\DOT\DFS\DOT\GROUPS-WZTCC\design\group\adglsqb\pate\B-5020\combined all 4 bridges\B-5020_bridges.dgn
 akp\atel AT WZTCC24037

BRIDGE NO. 112 BAGLEY ROAD

NOTE : BRIDGE NO. 109 AND BRIDGE NO. 112 SHALL NOT BE REPLACED SIMULTANEOUSLY. SEE PROJECT SPECIAL PROVISION

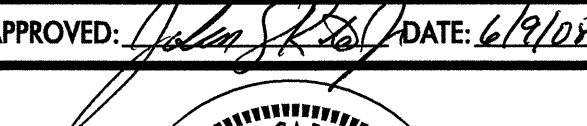


PHASING

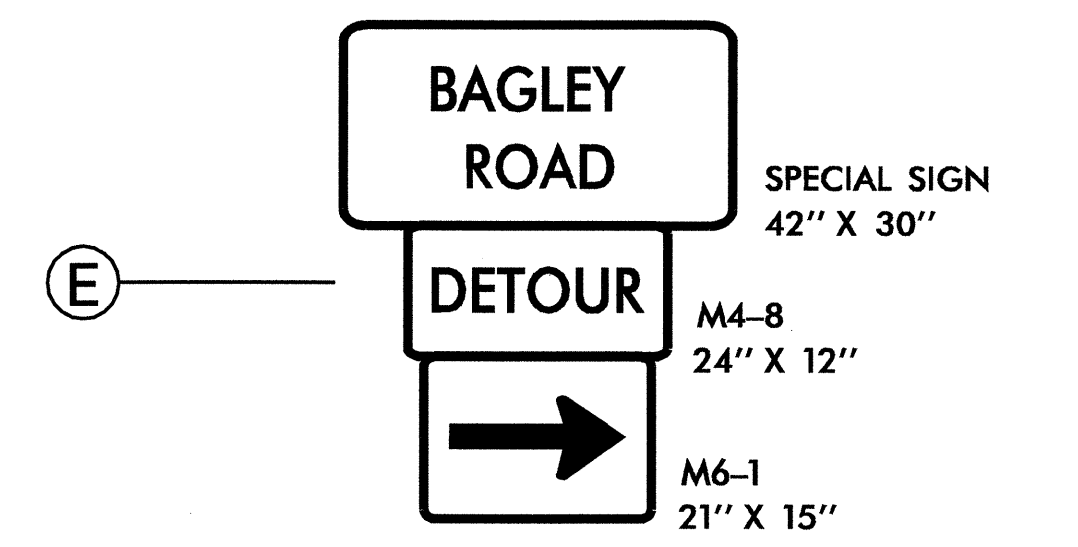
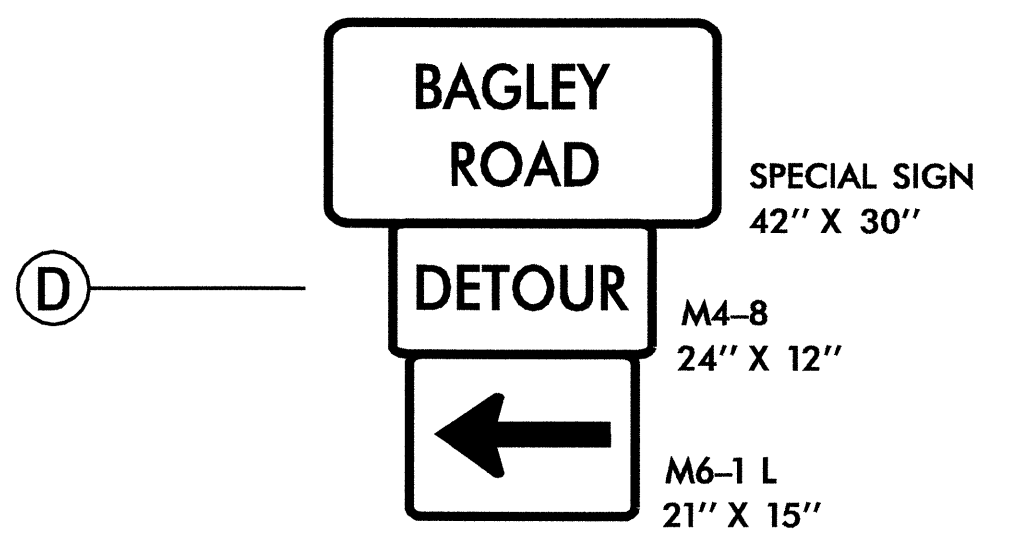
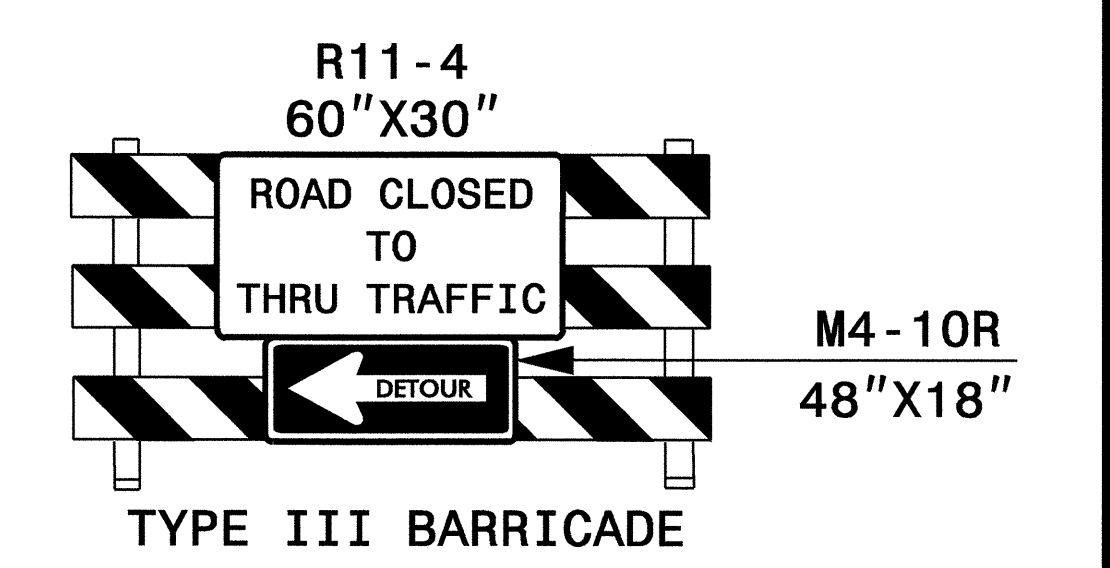
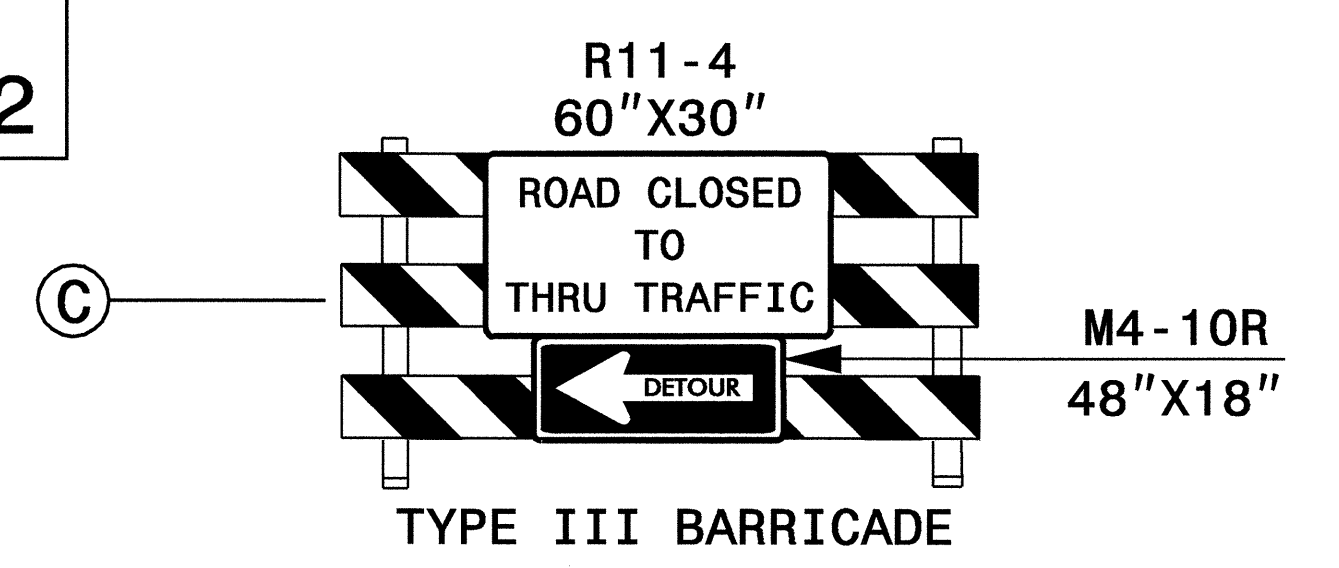
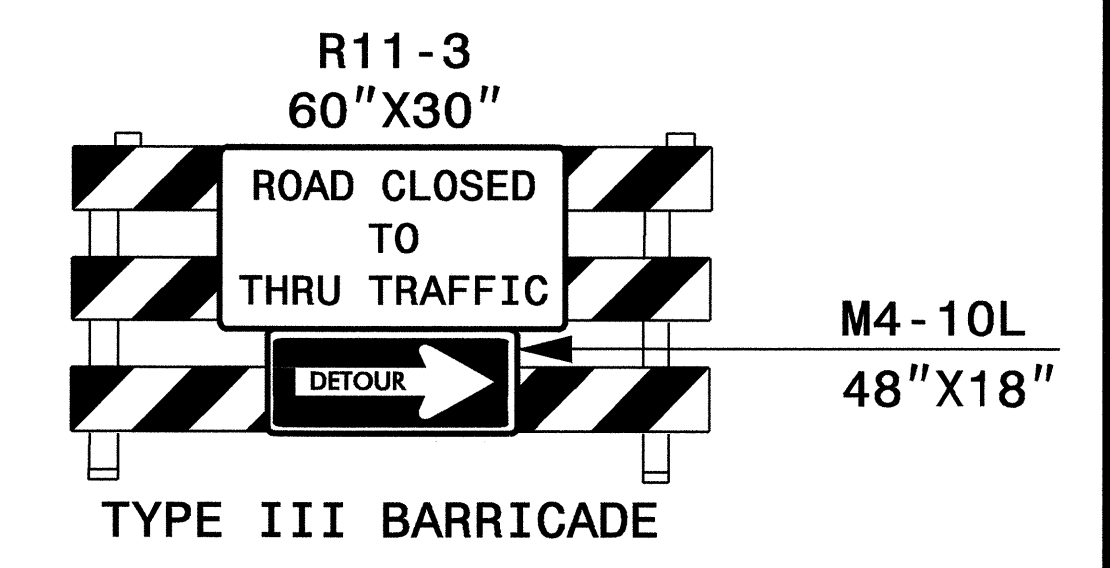
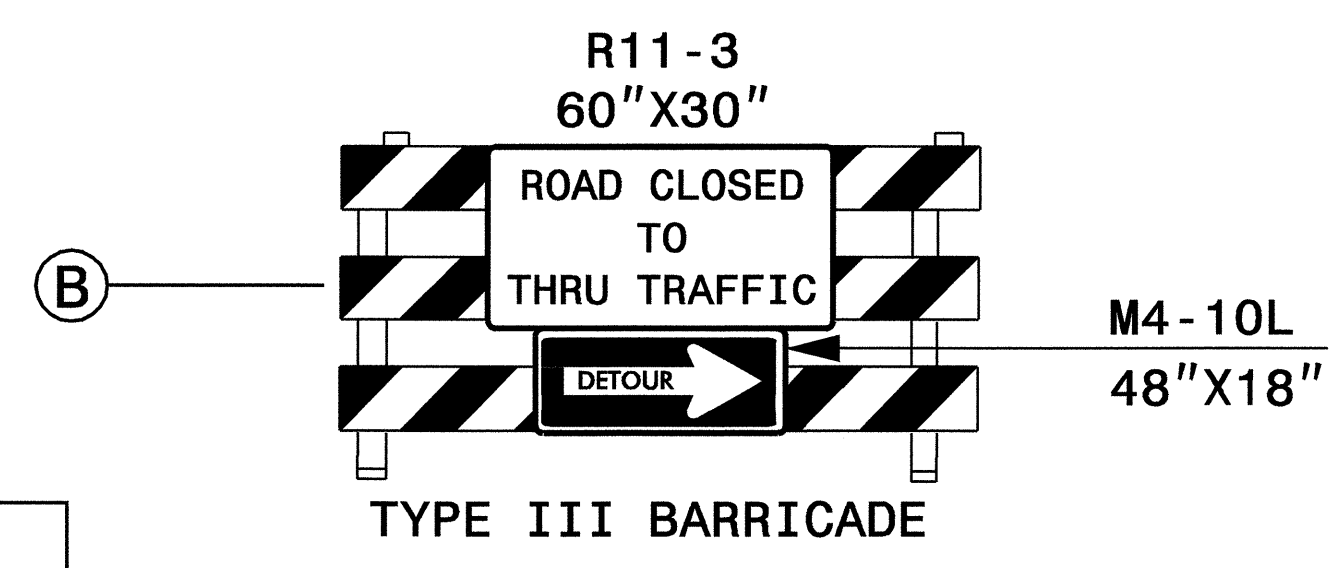
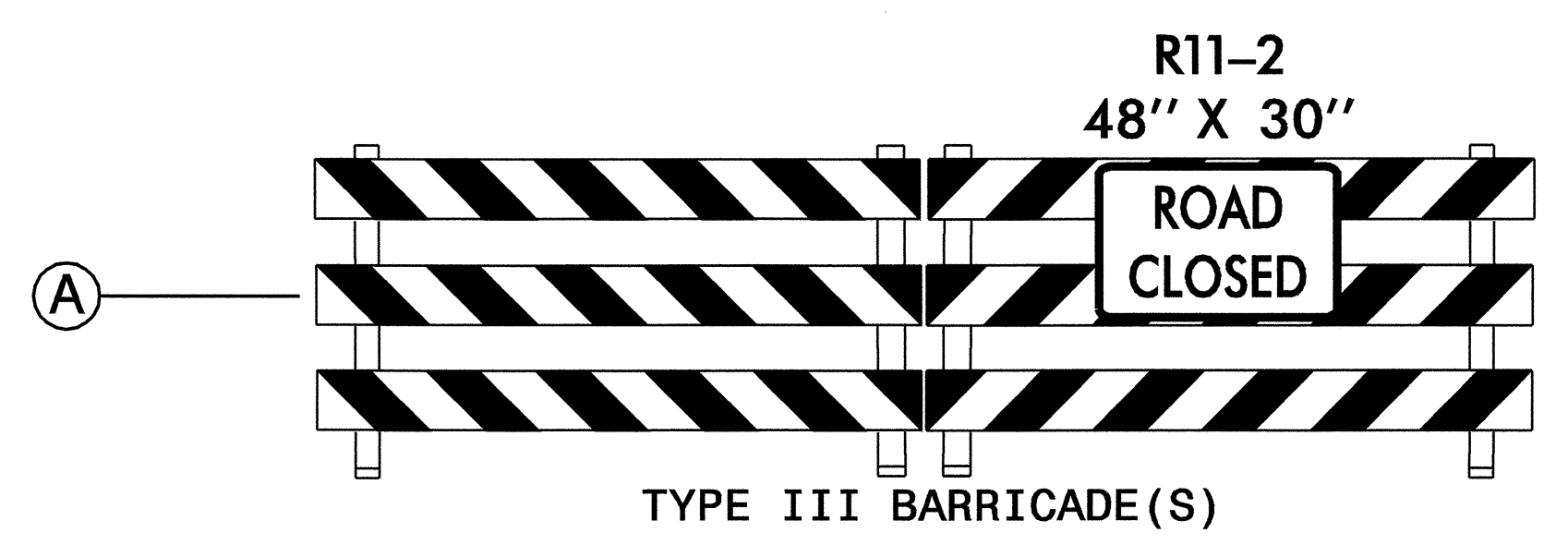
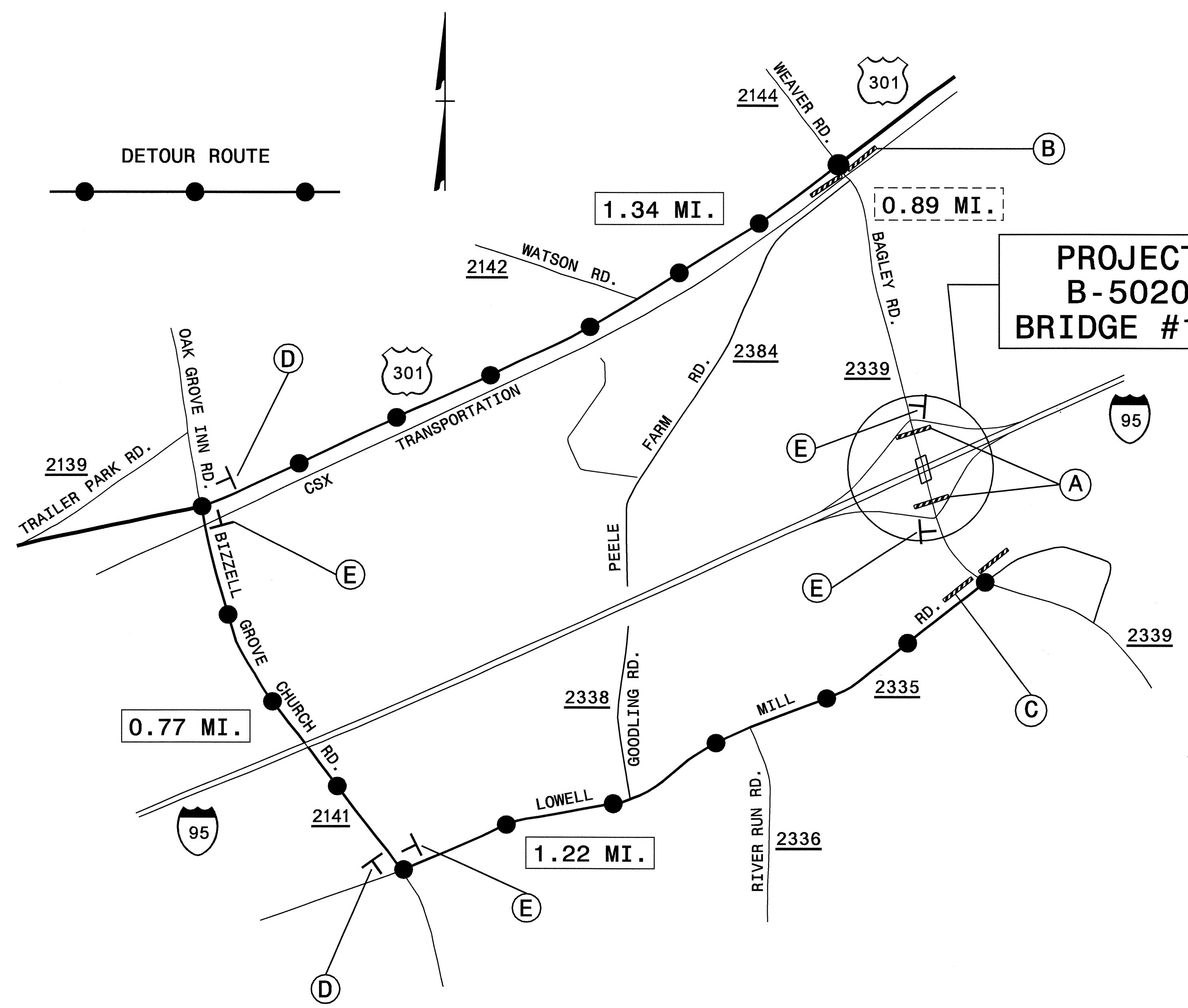
- STEP 1 -- INSTALL OFF-SITE DETOUR SIGNING IN ACCORDANCE WITH TCP-12. SIGNING SHALL BE COVERED UNTIL BRIDGE JACKING OPERATIONS BEGIN.
- STEP 2 -- UNCOVER DETOUR SIGNING AND CLOSE BAGLEY RD. (SEE TCP-12 AND RSD 1101.03)
- STEP 3 -- USING LANE CLOSURES ON I-95, PERFORM BRIDGE JACKING OPERATIONS, INCLUDING JACKING, CAP REPAIR, BEARING REPLACEMENT, LOWERING, ETC. (SEE RSD 1101.02).
NOTE: ALL LANES ARE TO BE REOPENED BY 6:00 A.M. FRIDAY.
- STEP 4 -- AWAY FROM TRAFFIC, COMPLETE PAVING OPERATIONS AND PLACE FINAL MARKINGS/MARKERS.
- STEP 5 -- RE-OPEN BAGLEY RD. TO TRAFFIC AND REMOVE DETOUR SIGNING .
- STEP 6 -- REMOVE ALL TRAFFIC CONTROL DEVICES.

PAVEMENT MARKING SCHEDULE

<u>DESCRIPTION</u>	<u>#112 QUANTITY BREAKDOWN</u>	<u>TOTAL QUANTITY</u>
	<u>THERMOPLASTIC (4", 90 MILS)</u>	
WHITE EDGELINE	1600 LF	1600 LF.
	<u>THERMOPLASTIC (4", 120 MILS)</u>	
YELLOW DOUBLE CENTERLINE	1600 LF	1600 LF.
	<u>PERMANENT RAISED MARKERS</u>	
YELLOW AND YELLOW	12 EA.	12 EA.

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APPROVED:  DATE: 6/9/08 	BRIDGE NO. 112 PHASING AND PAVEMENT MARKING SCHEDULE	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td>SCALE:</td> <td>NONE</td> </tr> <tr> <td>DATE:</td> <td>03/08</td> </tr> <tr> <td>DWG. BY:</td> <td>AKP</td> </tr> <tr> <td>DESIGN BY:</td> <td>AKP</td> </tr> <tr> <td>REVIEWED BY:</td> <td>DAP</td> </tr> </table>	SCALE:	NONE	DATE:	03/08	DWG. BY:	AKP	DESIGN BY:	AKP	REVIEWED BY:	DAP
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NOTE: SEE RSD 1101.03, SHEET 1 OF 9 FOR ADVANCE WARNING SIGNAGE AND BARRICADE PLACEMENT

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APPROVED: <i>John S. Kite, Jr.</i> DATE: 6/2/08	BRIDGE NO. 112 DETOUR AND SIGNING									
	SCALE: NONE									
	DATE: 03/08									
	DESIGN BY: AKP									
	REVIEWED BY: DAP									
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