

STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

STATE PROJECT REFERENCE NO.	SHEET NO.
B-3509	TCP-1

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

B-3509

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 JANUARY 2002 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
1101.05	WORK ZONE VEHICLE ACCESSES
1101.06	WARNING SIGNS FOR BLASTING ZONES
1101.11	TRAFFIC CONTROL DESIGN TABLES
1110.01	STATIONARY WORK ZONE SIGNS
1110.02	PORTABLE WORK ZONE SIGNS
1135.01	CONES
1150.01	FLAGGERS
1160.01	TEMPORARY CRASH CUSHION
1165.01	TRUCK MOUNTED IMPACT ATTENUATOR
1170.01	PORTABLE CONCRETE BARRIER
1205.01	PAVEMENT MARKINGS - LINE TYPES & OFFSETS
1205.02	PAVEMENT MARKINGS - 2 LANE & MULTILANE ROADWAYS
1205.04	PAVEMENT MARKINGS - INTERSECTIONS
1205.05	PAVEMENT MARKINGS - TURN LANES
1205.07	PAVEMENT MARKINGS - PEDESTRIAN CROSSWALKS
1205.08	PAVEMENT MARKINGS - SYMBOLS & WORD MESSAGES
1205.09	PAVEMENT MARKINGS - PAINTED ISLANDS
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

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TCP-1	LIST OF APPLICABLE ROADWAY STANDARD DRAWINGS, LEGEND AND INDEX OF SHEETS
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TCP-4 & 5	PROJECT PHASING
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TCP-8	OFF-SITE DETOUR PLAN FOR PAVING/WEDGING/STRIPING OF PROPOSED ROUNDABOUT
TCP-9	SPECIAL SIGN DESIGNS
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TCP-11	ADVANCE WARNING SIGNS
TCP-12	REPLACEMENT DETAIL FOR RSD 1130.01
TCP-13	REPLACEMENT DETAIL FOR RSD 1101.04
TCP-14	REPLACEMENT DETAIL FOR RSD 1145.01
PM-1	PAVEMENT MARKING SCHEDULE
PM-2	FINAL PAVEMENT MARKING 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
 - FLASHING ARROW PANEL (TYPE C)
 - TYPE 'B' WARNING LIGHT
 - 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:

APPROVED:	PLAN PREPARED BY: N.C.D.O.T. TRAFFIC CONTROL, MARKING & DELINEATION SECTION
DATE: 6/1/05	
SEAL 	J.S. BOURNE, P.E. TRAFFIC CONTROL ENGINEER
	G.L. GETTIER, P.E. TRAFFIC CONTROL PROJECT ENGINEER
	J.W. WOOLARD, P.E. TRAFFIC CONTROL PROJECT DESIGN ENGINEER
	D.A. PARKER TRAFFIC CONTROL DESIGN ENGINEER / TECHNICIAN

GENERAL NOTES

PROJECT NOTES

PROJ. REFERENCE NO.	SHEET NO.
B-3509	TCP-2

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.

TIME RESTRICTIONS

A) DO NOT CLOSE OR NARROW TRAVEL LANES AS FOLLOWS:

ROAD NAME	DAY AND TIME RESTRICTIONS
ALL ROADS WITHIN THE PROJECT	7:00 A.M. TO 9:00 A.M. AND 3:00 P.M. TO 7:00 P.M. MONDAY THROUGH FRIDAY

B) DO NOT CLOSE OR NARROW TRAVEL LANES DURING HOLIDAYS AND SPECIAL EVENTS AS FOLLOWS:

ROAD NAME	HOLIDAY
ALL ROADS WITHIN THE PROJECT.	<ol style="list-style-type: none"> FOR ANY EVENT THAT CREATES UNUSUALLY HIGH TRAFFIC VOLUMES, AS DIRECTED BY THE ENGINEER. FOR NEW YEAR'S, BETWEEN THE HOURS OF 3:00 P.M. DECEMBER 31ST TO 9:00 A.M. JANUARY 2ND. IF NEW YEAR'S DAY IS ON A SATURDAY OR A SUNDAY, THEN UNTIL 9:00 A.M. THE FOLLOWING TUESDAY. FOR EASTER, BETWEEN THE HOURS OF 3:00 P.M. THURSDAY AND 9:00 A.M. MONDAY. FOR MEMORIAL DAY, BETWEEN THE HOURS OF 3:00 P.M. FRIDAY TO 9:00 A.M. TUESDAY. FOR INDEPENDENCE DAY, BETWEEN THE HOURS OF 3:00 P.M. THE DAY BEFORE INDEPENDENCE DAY AND 9:00 A.M. THE DAY AFTER INDEPENDENCE DAY. IF INDEPENDENCE DAY IS ON A SATURDAY OR SUNDAY, THEN BETWEEN THE HOURS OF 3:00 P.M. THE THURSDAY BEFORE INDEPENDENCE DAY AND 9:00 A.M. THE TUESDAY AFTER INDEPENDENCE DAY. FOR LABOR DAY, BETWEEN THE HOURS OF 3:00 P.M. FRIDAY TO 9:00 A.M. TUESDAY. FOR THANKSGIVING, BETWEEN THE HOURS OF 3:00 P.M. TUESDAY TO 9:00 A.M. MONDAY. FOR CHRISTMAS, BETWEEN THE HOURS OF 3:00 P.M. THE FRIDAY BEFORE THE WEEK OF CHRISTMAS DAY AND 9:00 A.M. THE FOLLOWING MONDAY AFTER THE WEEK OF CHRISTMAS. FOR THE "EDEN APPLE FESTIVAL", BETWEEN THE HOURS OF 7:00 A.M. AND 7:00 P.M. THE DAY OF THE FESTIVAL. FOR THE "RUBBER DUCK REGATTA", BETWEEN THE HOURS OF 7:00 A.M. AND 7:00 P.M. THE DAY OF THE EVENT.

C) DO NOT STOP TRAFFIC FOR MORE THAN 10 MINUTES AS FOLLOWS:

ROAD NAME	OPERATION
W. MEADOW RD.	BLASTING

D) DO NOT CONDUCT ANY HAULING OPERATIONS AGAINST THE FLOW OF TRAFFIC OF AN OPEN TRAVELWAY UNLESS THE WORK AREA IS PROTECTED BY BARRIER OR GUARDRAIL OR OTHERWISE DIRECTED BY THE ENGINEER.

LANE AND SHOULDER CLOSURE REQUIREMENTS

- E) 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.
- F) WHEN PERSONNEL AND/OR EQUIPMENT ARE WORKING WITHIN 40 FT (12m) 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.

G) WHEN PERSONNEL AND/OR EQUIPMENT ARE WORKING ON THE SHOULDER ADJACENT TO AN UNDIVIDED FACILITY AND WITHIN 5 FT (1.5m) 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 (3m) 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.

H) 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.

I) DO NOT WORK SIMULTANEOUSLY, ON BOTH SIDES OF AN OPEN TRAVELWAY, WITHIN THE SAME LOCATION, ON A TWO-LANE, TWO-WAY ROAD.

J) DO NOT PERFORM WORK INVOLVING HEAVY EQUIPMENT WITHIN 15 FT (5m) 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

K) 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 A DROP-OFF AS FOLLOWS:

BACKFILL DROP-OFFS THAT EXCEED 2 INCHES (50mm) ON ROADWAYS WITH POSTED SPEED LIMITS OF 45 MPH OR GREATER.

BACKFILL DROP-OFFS THAT EXCEED 3 INCHES (75mm) 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.

L) DO NOT EXCEED A DIFFERENCE OF 1.5 inches (40mm) IN ELEVATION BETWEEN OPEN LANES OF TRAFFIC. INSTALL ADVANCE WARNING "UNEVEN LANES" SIGNS (W8-11) 500 FT (150m) IN ADVANCE AND A MINIMUM OF ONCE EVERY MILE THROUGHOUT THE UNEVEN AREA.

TRAFFIC PATTERN ALTERATIONS

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

SIGNING

N) INSTALL ADVANCE WORK ZONE WARNING SIGNS WHEN WORK IS WITHIN 100 FT (31m) FROM THE EDGE OF TRAVEL LANE AND NO MORE THAN THREE (3) DAYS PRIOR TO THE BEGINNING OF CONSTRUCTION.

WHEN NO WORK IS BEING CONDUCTED FOR A PERIOD LONGER THAN ONE WEEK, REMOVE OR COVER ALL ADVANCE WORK ZONE WARNING SIGNS, AS DIRECTED BY THE ENGINEER, AT NO COST TO THE DEPARTMENT.

- O) PROVIDE PERMANENT SIGNING.
- P) PROVIDE DETOUR SIGNING WITHIN AND OFF THE PROJECT LIMITS.
- Q) COVER OR REMOVE ALL DETOUR SIGNS WITHIN AND/OR OFF THE PROJECT LIMITS WHEN A DETOUR IS NOT IN OPERATION.
- R) ENSURE ALL NECESSARY SIGNING IS IN PLACE PRIOR TO ALTERING ANY TRAFFIC PATTERN.
- S) INSTALL BLACK ON ORANGE "DIP" SIGNS (W8-2) 500 FT IN ADVANCE OF THE UNEVEN AREA.
- T) INSTALL BLACK ON ORANGE "BUMP" SIGNS (W8-1) 500 FT IN ADVANCE OF THE UNEVEN AREA.

TRAFFIC BARRIER

U) INSTALL PORTABLE CONCRETE/WATERFILLED BARRIER ACCORDING TO THE TRAFFIC CONTROL PLANS A MAXIMUM OF TWO (2) WEEKS PRIOR TO BEGINNING WORK IN ANY LOCATION. ONCE PORTABLE CONCRETE/WATERFILLED BARRIER IS INSTALLED AT ANY LOCATION, PROCEED IN A CONTINUOUS MANNER TO COMPLETE THE PROPOSED WORK IN THAT LOCATION UNLESS OTHERWISE STATED IN THE TRAFFIC CONTROL PLANS OR AS DIRECTED BY THE ENGINEER.

ONCE PORTABLE CONCRETE/WATERFILLED BARRIER IS INSTALLED AT ANY LOCATION AND NO WORK IS PERFORMED BEHIND THE PORTABLE CONCRETE/WATERFILLED BARRIER FOR A PERIOD LONGER THAN TWO (2) MONTHS, REMOVE/RESET PORTABLE CONCRETE/WATERFILLED BARRIER AT NO COST TO THE DEPARTMENT UNLESS OTHERWISE STATED IN THE TRAFFIC CONTROL PLANS, BARRIER IS PROTECTING A HAZARD, OR AS DIRECTED BY THE ENGINEER.

V) PROTECT THE APPROACH END OF PORTABLE CONCRETE/WATERFILLED BARRIER AT ALL TIMES DURING THE INSTALLATION AND REMOVAL OF THE BARRIER BY EITHER A TRUCK MOUNTED IMPACT ATTENUATOR (MAXIMUM 72 HOURS) OR A TEMPORARY CRASH CUSHION.

OFFSET THE APPROACH END OF PORTABLE CONCRETE/WATERFILLED BARRIER A MINIMUM OF 40 FT (12m) FROM ONCOMING TRAFFIC OR PROTECT AT ALL TIMES BY A TEMPORARY CRASH CUSHION.

INSTALL PORTABLE CONCRETE/WATERFILLED BARRIER WITH THE TRAFFIC FLOW, BEGINNING WITH THE UPSTREAM SIDE OF TRAFFIC. REMOVE PORTABLE CONCRETE/WATERFILLED BARRIER AGAINST THE TRAFFIC FLOW, BEGINNING WITH THE DOWNSTREAM SIDE OF TRAFFIC.

INSTALL AND SPACE DRUMS NO GREATER THAN TWICE THE POSTED SPEED LIMIT (MPH) TO CLOSE OR KEEP CLOSED THE SECTION OF THE ROADWAY UNTIL THE BARRIER CAN BE PLACED OR AFTER BARRIER IS REMOVED.


TRAFFIC CONTROL DEVICES

W) WHEN USING ROADWAY STANDARD DRAWING NO. 1101.02, DRUMS MAY BE USED IN LIEU OF CONES ON -L- (CHURCH ST./MEADOW RD.) AND -Y1- (BOONE RD.)

X) SPACE CHANNELIZING DEVICES IN WORK AREAS NO GREATER THAN TWICE THE POSTED SPEED LIMIT (MPH), EXCEPT 10 FT (3m) ON-CENTER IN RADII, AND 3 FT (1m) OFF THE EDGE OF AN OPEN TRAVELWAY, WHEN LANE CLOSURES ARE NOT IN EFFECT.

Y) PLACE TYPE III BARRICADES, WITH "ROAD CLOSED" SIGN R11-2 ATTACHED, OF SUFFICIENT LENGTH TO CLOSE ENTIRE ROADWAY. STAGGER OR OVERLAP BARRICADES TO ALLOW FOR INGRESS OR EGRESS.

Z) PLACE SETS OF THREE DRUMS PERPENDICULAR TO THE EDGE OF THE TRAVELWAY ON 500 FT (150m) CENTERS WHEN UNOPENED LANES ARE CLOSED TO TRAFFIC. THESE DRUMS SHALL BE IN ADDITION TO CHANNELIZING DEVICES.

APPROVED: <i>J.W. Woolard</i> DATE: 6/1/05	PROJECT NOTES																			
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PROJECT NOTES

GENERAL NOTES (CONT.)

PAVEMENT MARKINGS AND MARKERS

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

<u>ROAD NAME</u>	<u>MARKING</u>	<u>MARKER</u>
ALL ROADS WITHIN THE PROJECT	POLYUREA	PERMANENT RAISED

BB) INSTALL TEMPORARY PAVEMENT MARKINGS AND TEMPORARY PAVEMENT MARKERS ON INTERIM LAYERS OF PAVEMENT AS FOLLOWS:

<u>ROAD NAME</u>	<u>MARKING</u>	<u>MARKER</u>
ALL ROADS WITHIN THE PROJECT (INCLUDING PROPOSED STRUCTURE)	PAINT	TEMPORARY RAISED

USE A LIGHT COATING OF PAINT FOR TEMPORARY MARKINGS ON THE PROPOSED STRUCTURE

PAVEMENT MARKINGS AND MARKERS (CONT.)

CC) PLACE AT LEAST TWO APPLICATIONS OF PAINT PAVEMENT MARKINGS ON THE FINAL WEARING SURFACE ON NEW ASPHALT PAVEMENT. PLACE ADDITIONAL APPLICATIONS OF PAINT UPON SUFFICIENT DRYING TIME, AS DETERMINED BY THE ENGINEER.

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

EE) REPLACE ANY PAVEMENT MARKINGS THAT HAVE BEEN DAMAGED BY THE END OF EACH DAY'S OPERATION.

FF) TRACE THE EDGE OF PROPOSED MONOLITHIC ISLANDS WITH THE PROPER COLOR PAVEMENT MARKING PRIOR TO INSTALLATION OF A PROPOSED MONOLITHIC ISLAND.

GG) PLACE AT LEAST TWO APPLICATIONS OF PAINT ON NEW ASPHALT WITH TEMPORARY TRAFFIC PATTERNS WHICH WILL REMAIN IN PLACE OVER THREE (3) MONTHS. PLACE ADDITIONAL APPLICATIONS OF PAINT UPON SUFFICIENT DRYING TIME, AS DETERMINED BY THE ENGINEER.

TEMPORARY/FINAL SIGNALS

HH) SHIFT AND REVISE ALL SIGNAL HEADS AS SHOWN ON THE SIGNAL PLANS.

MISCELLANEOUS

II) POLICE MAY BE USED TO MAINTAIN TRAFFIC THROUGH INTERSECTIONS.

JJ) IN THE EVENT A TIE-IN CANNOT BE MADE IN ONE DAYS TIME, BRING THE TIE-IN AREA TO AN APPROPRIATE ROADWAY ELEVATION, AS DETERMINED BY THE ENGINEER. PLACE BLACK ON ORANGE "LOOSE GRAVEL" SIGNS (W8-7) AND BLACK ON ORANGE "PAVEMENT ENDS" SIGNS (W8-3) 500 FT (150m) AND 1000 FT (300m) RESPECTIVELY IN ADVANCE OF THE UNEVEN AREAS. USE DRUMS TO DELINEATE THE EDGE OF ROADWAY ALONG UNPAVED AREAS.

KK) PLACE DRUMS TO DELINEATE EXISTING AND/OR PROPOSED ISLANDS AFTER REMOVAL AND/OR BEFORE INSTALLATION.


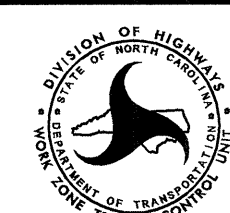
LOCAL NOTES

LOCAL NOTE 1:

NOTIFY THE RESIDENT ENGINEER IN WRITING 21 CALENDAR DAYS PRIOR TO THE CLOSURE OF THE INTERSECTION OF BOONE RD., CHURCH ST., AND W. MEADOW RD. AND IMPLEMENTATION OF THE PROPOSED OFFSITE DETOUR TO ALLOW FOR NOTIFICATION OF THE LOCAL MEDIA, LOCAL EMERGENCY AND LAW ENFORCEMENT OFFICIALS, AND ANY OTHER PARTIES AFFECTED BY THE CLOSURE BY THE ENGINEER. ADDITIONALLY, INSTALL AND MAINTAIN CHANGEABLE MESSAGE SIGNS (1 ON CHURCH ST., 1 ON W. MEADOW RD., AND 1 ON BOONE RD.) AS DIRECTED BY THE ENGINEER 1 WEEK PRIOR TO THE INTERSECTION CLOSURE WITH THE FOLLOWING MESSAGES:

MSG. 1: INTER-SECTION CLOSED
 MSG. 2: FRI 7PM TO MON 7AM

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APPROVED: <i>J.W. Woolard</i> DATE: 6/1/05		PROJECT NOTES	
SEAL 	SCALE: NONE		REVISIONS
	DATE: 3/05		
	DWG. BY: DAP		
	DESIGN BY: DAP		
	REVIEWED BY: JWW		

PROJECT PHASING

PROJ. REFERENCE NO.	SHEET NO.
B-3509	TCP-4

PHASE I

STEP 1 -- PLACE ADVANCE WARNING SIGNS IN ACCORDANCE WITH SHEET TCP-11.

NOTE: MAINTAIN ACCESS TO THE DRIVEWAY LOCATED LEFT OF STA. 12+77 +/- -L- (ACCESS TO SPRAY COTTON MILLS) AS WELL AS THE DRIVEWAY RIGHT OF STA. 20+00 +/- -L- THROUGHOUT THE DURATION OF THIS PROJECT.

STEP 2 -- USING ROADWAY STANDARD DRAWING 1101.02, SHEET 1 OF 7, PERFORM THE FOLLOWING:

- INSTALL A TEMPORARY 4" WHITE EDGELINE ON CHURCH ST. AS SHOWN ON SHEET TCP-6 FROM STA. 10+50 +/- -L- TO STA. 11+85 +/- -L-. REMOVE ANY CONFLICTING PAVEMENT MARKINGS FROM THIS AREA.
- INSTALL PORTABLE CONCRETE BARRIER (ANCHORED) FROM STA. 10+50 +/- -L- TO STA. 12+00 +/- -L-. (SEE SHEET TCP-6.)

NOTE: STEPS 3 THROUGH 6 MAY BE PERFORMED CONCURRENTLY.

STEP 3 -- BEHIND BARRIER/AWAY FROM TRAFFIC, CONSTRUCT THE PROPOSED RETAINING WALL FROM STA. 10+80 +/- -L- TO STA. 11+85 +/- -L-

STEP 4 -- AWAY FROM TRAFFIC, CONSTRUCT THE DETOUR (-L DETOUR-) INCLUDING THE TEMPORARY STRUCTURE FROM STA. 13+50 +/- -L DETOUR- TO STA. 18+00 +/- -L DETOUR-. DO NOT INSTALL THE PROPOSED GUARDRAIL AT THE SOUTHWEST CORNER OF THE TEMPORARY STRUCTURE (SEE CONSTRUCTION PLANS AND SHEET TCP-6.)

STEP 5 -- USE ROADWAY STANDARD DRAWING 1101.02, SHEET 1 OF 7 AS NECESSARY TO CONSTRUCT THE PROPOSED DETOUR (-L DETOUR-) UP TO THE EDGE AND ELEVATION OF EXISTING PAVEMENT OF MEADOW RD. (SR 3003)(-L-) FROM STA. 10+80 +/- -L DETOUR- TO STA. 13+50 +/- -L DETOUR- AND FROM STA. 18+00 +/- -L DETOUR- TO STA. 20+00 +/- -L DETOUR-. PLACE DRUMS AND TYPE III BARRICADES WITH "ROAD CLOSED" SIGNS (R11-2) TO KEEP THE DETOUR CLOSED TO TRAFFIC. (SEE CONSTRUCTION PLANS AND SHEET TCP-6.)

- AWAY FROM TRAFFIC, PLACE, AS MUCH AS POSSIBLE, TEMPORARY PAVEMENT MARKINGS (PAINT) AND TEMPORARY RAISED PAVEMENT MARKERS FROM STA. 12+80 +/- -L DETOUR- TO STA. 20+00 +/- -L DETOUR- (SEE SHEET TCP-7.)

STEP 6 -- USE ROADWAY STANDARD DRAWING 1101.02, SHEET 1 OF 7 AS NECESSARY TO INSTALL THE TEMPORARY TRAFFIC SIGNAL. (DO NOT ACTIVATE THE TRAFFIC SIGNAL.) (SEE SIGNAL PLANS.)

STEP 7 -- USE ROADWAY STANDARD DRAWING 1101.02, SHEET 1 OF 7 TO PERFORM THE FOLLOWING:

- REMOVE AND PAVE ALL EXISTING TRAFFIC ISLANDS AND THE EXISTING TRAFFIC CIRCLE. REPLACE WITH DRUMS SPACED 10 FT. O.C. TO CHANNELIZE TRAFFIC UNTIL THE TEMPORARY TRAFFIC SIGNAL IS ACTIVATED AND THE INTERMEDIATE TRAFFIC PATTERN IS PUT INTO EFFECT (SEE SHEET TCP-6).
- REMOVE THE PCB (ANCHORED) FROM STA. 10+50 +/- -L- TO STA. 12+00 +/- -L- .

NOTE: WORK IN A CONTINUOUS MANNER TO COMPLETE STEP 8 IN A SINGLE WORK PERIOD.

STEP 8 -- USE ROADWAY STANDARD DRAWING 1101.02, SHEET 1 OF 7 TO PLACE TEMPORARY PAVEMENT MARKINGS (PAINT) AND TEMPORARY RAISED PAVEMENT MARKERS FOR THE INTERMEDIATE TRAFFIC PATTERN AS DETAILED ON SHEET TCP-7.

- PLACE DRUMS AND TYPE III BARRICADES WITH "ROAD CLOSED" SIGNS (R11-2) TO CLOSE EXISTING MEADOW RD. (SR 3003)(-L-) AT STA. 13+80 +/- -L- AND STA. 19+50 +/- -L-. ACTIVATE THE TRAFFIC SIGNAL AND OPEN THE DETOUR AND THE INTERSECTION TO THE INTERMEDIATE TRAFFIC PATTERN. (SEE SIGNAL PLANS AND SHEET TCP-7.)

NOTE: PLACE A TRUCK MOUNTED IMPACT ATTENUATOR (TMIA) TO PROTECT THE SOUTHWEST CORNER OF THE TEMPORARY DETOUR STRUCTURE UNTIL GUARDRAIL CAN BE INSTALLED AT THAT LOCATION. USE DRUMS TO DELINEATE THE TURNING RADIUS. (SEE DETAIL "A" ON SHEET TCP-7.)

STEP 9 -- USE ROADWAY STANDARD DRAWING 1101.02, SHEET 1 OF 7 TO COMPLETE THE INSTALLATION OF THE GUARDRAIL SECTION LOCATED AT THE SOUTHWEST CORNER OF THE TEMPORARY DETOUR STRUCTURE. INSTALL WATERFILLED BARRIER ADJACENT TO THE INSIDE TURNING RADIUS OF BOONE RD. (-Y1-) FROM STA. 11+00 +/- -Y1- TO STA. 13+20 +/- -L- (SEE CONSTRUCTION PLANS AND SHEET TCP-7.)

PHASE II

STEP 1 -- AWAY FROM TRAFFIC, OBLITERATE AND REMOVE THE EXISTING STRUCTURE. CONSTRUCT THE PROPOSED STRUCTURE AND APPROACHES FROM STA. 12+79 +/- -L- TO STA. 19+50 +/- -L- UP TO BUT NOT INCLUDING THE FINAL LAYER OF SURFACE COURSE. (SEE CONSTRUCTION PLANS AND SHEETS TCP-7.)

NOTE: USE A 1.5:1 TEMPORARY SLOPE FOR THE LEFT SIDE OF THE WESTBOUND APPROACH TO THE PROPOSED STRUCTURE FROM STA. 18+00 +/- -L- TO STA. 19+00 +/- -L-.

NOTE: PHASE II, STEPS 2 AND 3 MAY BE PERFORMED CONCURRENTLY.

STEP 2 -- USE ROADWAY STANDARD DRAWING 1101.02, SHEET 1 OF 7 TO PERFORM THE FOLLOWING:

- CONSTRUCT A TIE IN OF PROPOSED MEADOW RD. (SR 3003)(-L-) FROM STA. 19+50 +/- -L- TO THE EDGE AND ELEVATION OF THE DETOUR (-DET-)/EXISTING MEADOW RD.
- BEGIN PAVING/WEDGING CHURCH ST. FROM STA. 10+60 +/- -L- TO STA. 12+20 +/- -L- UP TO BUT NOT INCLUDING THE FINAL LAYER OF SURFACE COURSE.
- BEGIN PAVING/WEDGING BOONE RD. FROM STA. 10+60 +/- -Y1- TO STA. 12+50 +/- -Y1- UP TO BUT NOT INCLUDING THE FINAL LAYER OF SURFACE COURSE.

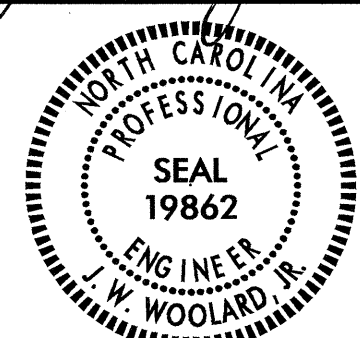
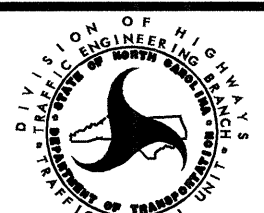
(SEE CONSTRUCTION PLANS AND SHEET TCP-7.)

STEP 3 -- AWAY FROM TRAFFIC, INSTALL PORTABLE CONCRETE BARRIER (PCB) WITH A CRASH CUSHION ON THE EASTERN END OF THE BARRIER FROM STA. 16+30 +/- -L- TO STA. 19+50 +/- -L-. ANCHOR THE BARRIER ON THE APPROACH TO THE PROPOSED STRUCTURE BUT NOT ON THE STRUCTURE OR THE APPROACH SLAB. (SEE SHEET TCP-10.)

STEP 4 -- AWAY FROM TRAFFIC, PLACE, AS MUCH AS POSSIBLE, TEMPORARY PAVEMENT MARKINGS (PAINT) AND TEMPORARY RAISED PAVEMENT MARKERS IN THE INTERMEDIATE TRAFFIC PATTERN DETAILED ON SHEET TCP-10.

- INSTALL AND COVER OFF-SITE DETOUR SIGNING (SEE SHEET TCP-8)

31-MAY-2005 14:56 \\ets-coc\fs01\35098\tcp\b3509-tc_tcp.dgn adparker AT TCU22400

APPROVED: <i>J.W. Woolard</i> DATE: 6/1/05		PROJECT PHASING	
SEAL 	SCALE: NONE		REVISIONS
	DATE: FEB 2004		
	DWG. BY: DAP		
	DESIGN BY: DAP		
REVIEWED BY: JWW			

PROJECT PHASING

PHASE II (CON'T.)

COMPLETE THE WORK OF PHASE II, STEPS 5 THROUGH 7 IN A SINGLE WEEKEND BEGINNING FRIDAY EVENING AT 7:00 P.M. AND ENDING MONDAY MORNING AT 7:00 A.M. (SEE LOCAL NOTE NO.1 ON SHEET TCP-2, INTERMEDIATE CONTRACT TIME AND LIQUIDATED DAMAGES.)

STEP 5 -- USING ROADWAY STANDARD DRAWING 1101.03, SHEET 1 OF 9, UNCOVER THE OFF-SITE DETOUR SIGNING AND OPEN THE OFF-SITE DETOUR WHILE SIMULTANEOUSLY CLOSING THE INTERSECTION OF CHURCH ST., BOONE RD. AND W. MEADOW RD.

STEP 6 -- PAVE/WEDGE THE PROPOSED ROUNDABOUT UP TO BUT NOT INCLUDING THE FINAL LAYER OF SURFACE COURSE. FEATHER THE PAVING AS NECESSARY TO TIE IN WITH ALL THREE LEGS OF THE INTERSECTION (SEE CONSTRUCTION PLANS AND SHEET TCP-10.)

-- COMPLETE THE PLACEMENT OF TEMPORARY PAVEMENT MARKINGS (PAINT) AND TEMPORARY RAISED PAVEMENT MARKINGS FOR THE INTERMEDIATE TRAFFIC PATTERN DETAILED ON SHEET TCP-10.)

STEP 7 -- INSTALL "NEW TRAFFIC PATTERN AHEAD" SIGN (W31-1SP) WITH WARNING FLAGS, PLACE TYPE III BARRICADES WITH "ROAD CLOSED" SIGNS (R11-2), DEACTIVATE THE TEMPORARY TRAFFIC SIGNAL, AND OPEN THE INTERSECTION TO TRAFFIC UTILIZING THE PROPOSED STRUCTURE AND ROUNDABOUT. (SEE SHEET TCP-10.)

PHASE III

STEP 1 -- AWAY FROM TRAFFIC, REMOVE THE TEMP. DETOUR (-L DETOUR-) AND TEMPORARY STRUCTURE FROM STA. 13+08 +/- -L DETOUR- TO STA. 20+00 +/- -L DETOUR- (SEE SHEET TCP-10.)

STEP 2 -- BEHIND BARRIER, CONSTRUCT THE LEFT SIDE OF MEADOW RD. (SR 3003)(-L-) FROM STA. 17+50 +/- -L- TO STA. 19+50 +/- -L- UP TO THE EDGE AND ELEVATION OF EXISTING PAVEMENT. INSTALL THE PROPOSED GUARDRAIL ON THE NORTHEAST SIDE OF THE PROPOSED STRUCTURE. (SEE CONSTRUCTION PLANS AND SHEET TCP-10.)

STEP 3 -- USE ROADWAY STANDARD DRAWING 1101.02, SHEET 1 OF 7 TO:

-- REMOVE THE PORTABLE CONCRETE BARRIER AND CRASH CUSHION FROM STA. 16+30 +/- -L- TO STA. 19+50 +/- -L-.

-- CONSTRUCT THE LEFT SIDE OF MEADOW RD. (SR 3003)(-L-) FROM STA. 19+50 +/- -L- TO STA. 25+00 +/- -L-. (SEE CONSTRUCTION PLANS AND SHEET TCP-10.)

-- COMPLETE CHURCH ST. FROM STA. 10+60 +/- -L- TO STA. 12+20 +/- -L- INCLUDING THE CONCRETE ISLANDS UP TO BUT NOT INCLUDING THE FINAL LAYER OF SURFACE COURSE. PLACE TEMPORARY PAVEMENT MARKINGS IN THE FINAL TRAFFIC PATTERN

-- COMPLETE BOONE RD. INCLUDING THE CONCRETE ISLANDS FROM STA. 10+60 +/- -Y1- TO STA. 12+50 +/- -Y1- UP TO BUT NOT INCLUDING THE FINAL LAYER OF SURFACE COURSE. PLACE TEMPORARY PAVEMENT MARKINGS IN THE FINAL TRAFFIC PATTERN

-- COMPLETE THE INTERIOR PORTION OF THE ROUNDABOUT, INCLUDING THE INNER SPECIAL 2'-6" CURB AND GUTTER AND THE OUTER CONCRETE CURB.

(SEE CONSTRUCTION PLANS AND SHEET TCP-10.)

STEP 4 -- USE ROADWAY STANDARD DRAWING 1101.02, SHEET 1 OF 7 TO COMPLETE MEADOW RD. (SR 3003)(-L-) FROM STA. 13+35 +/- -L- TO STA. 13+84 +/- -L- AND FROM STA. 17+50 +/- -L- TO STA. 25+00 +/- -L- INCLUDING THE MONOLITHIC CONCRETE ISLAND UP TO BUT NOT INCLUDING THE FINAL LAYER OF SURFACE COURSE. PLACE TEMPORARY PAVEMENT MARKINGS AND MARKERS IN THE FINAL TRAFFIC PATTERN. (SEE CONSTRUCTION PLANS AND SHEET TCP-10 AND PM-2.)

PHASE IV

STEP 1 -- USE ROADWAY STANDARD DRAWING 1101.02, SHEET 1 OF 7 TO PLACE THE FINAL LAYER OF SURFACE COURSE IN THE FOLLOWING LOCATIONS:

-- CHURCH ST. (-L-) FROM STA. 10+60 +/- -L- TO STA. 12+20 +/- -L-.

-- BOONE RD. (-Y1-) FROM STA. 10+62 +/- -Y1- TO STA. 12+50 +/- -Y1-.

-- MEADOW RD. (SR 3003)(-L-) FROM STA. 13+35 +/- -L- TO STA. 25+00 +/- -L-.

COMPLETE THE WORK OF PHASE IV, STEP 2 & 3 IN A SINGLE WEEKEND BEGINNING FRIDAY EVENING AT 7:00 P.M. AND ENDING MONDAY MORNING AT 7:00 A.M. (SEE LOCAL NOTE NO.1 ON SHEET TCP-2, INTERMEDIATE CONTRACT TIME AND LIQUIDATED DAMAGES.)

NOTE: PHASE IV, STEPS 2 & 3 MAY BE PERFORMED CONCURRENTLY.

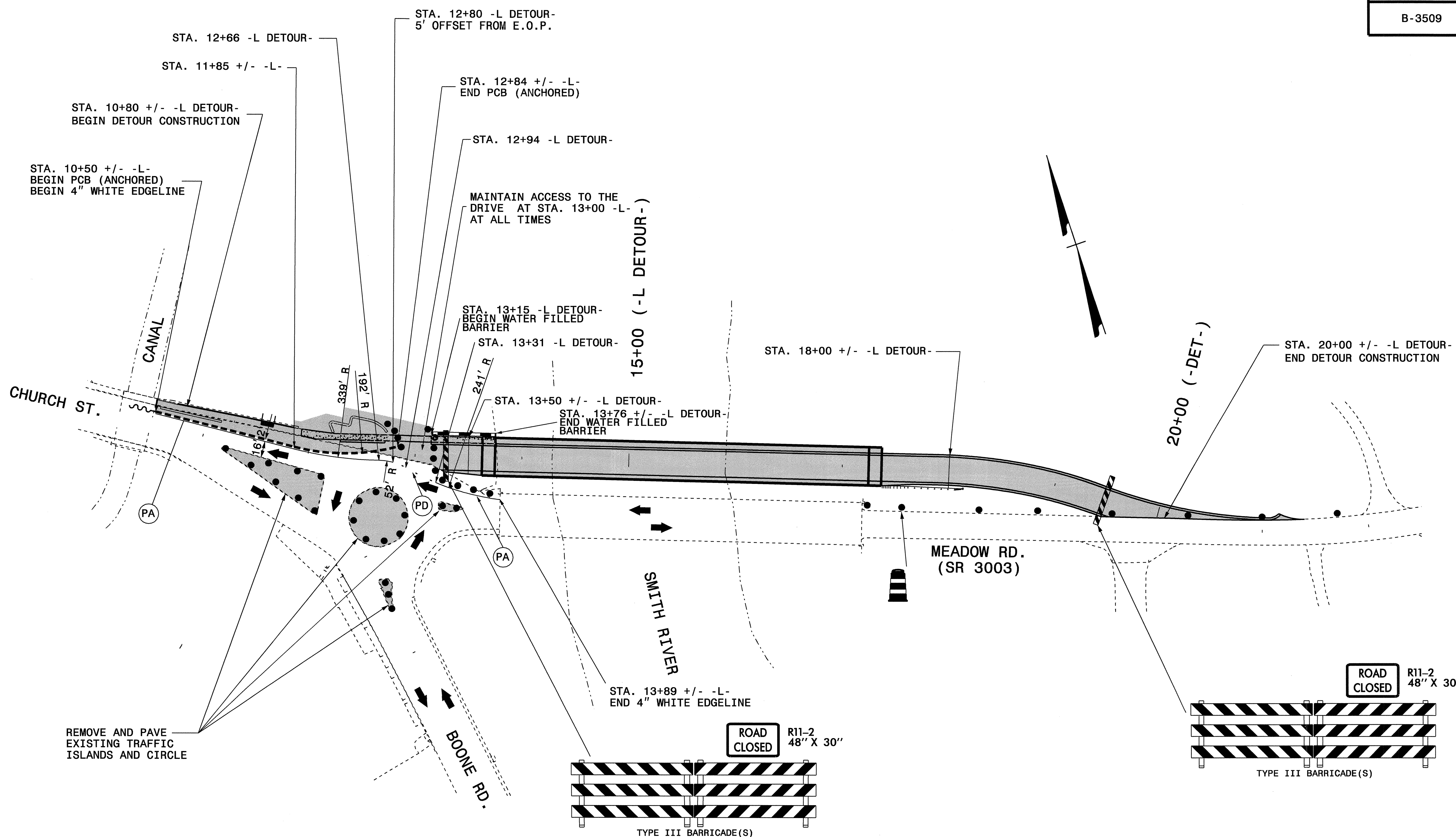
STEP 2 -- USING ROADWAY STANDARD DRAWING 1101.03, SHEET 1 OF 9, UNCOVER THE OFF-SITE DETOUR SIGNING AND OPEN THE OFF-SITE DETOUR WHILE SIMULTANEOUSLY CLOSING THE ROUNDABOUT.

-- PLACE THE FINAL LAYER OF SURFACE COURSE WITHIN THE ROUNDABOUT AND RE-OPEN THE ENTIRE PROJECT TO TRAFFIC (SEE CONSTRUCTION PLANS.)

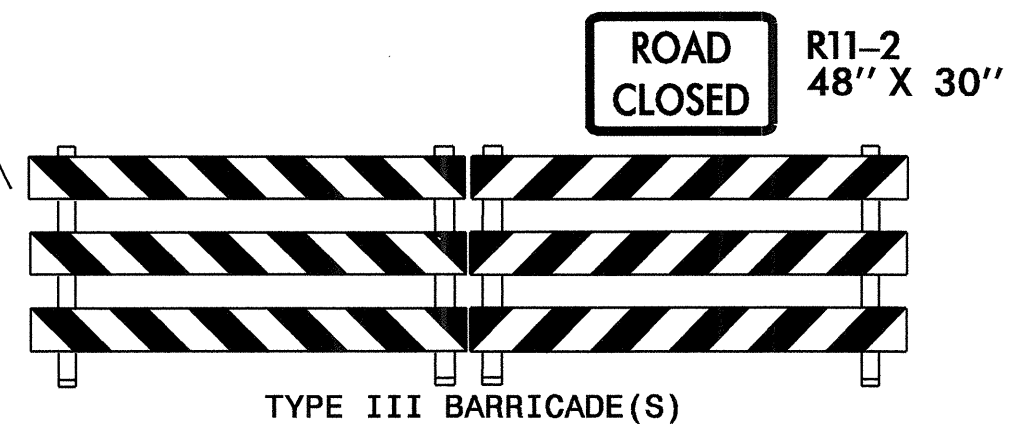
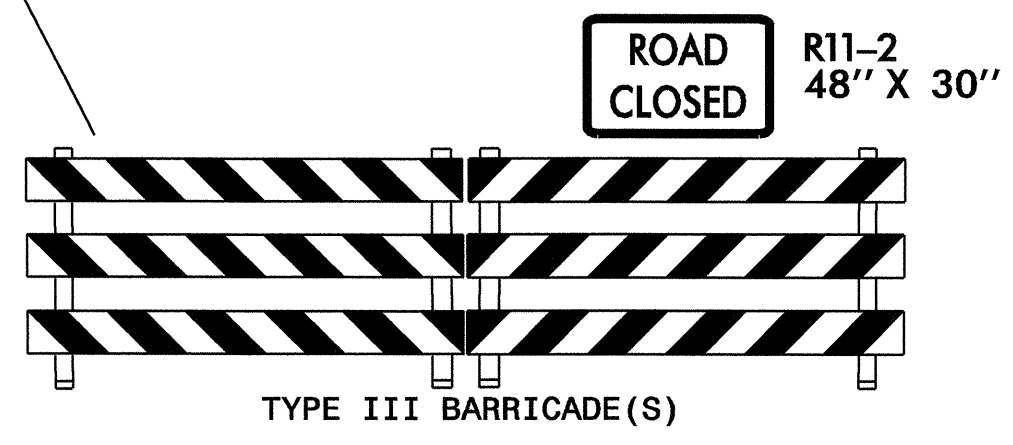
STEP 3 -- USE ROADWAY STANDARD DRAWING NO. 1101.02, SHEET 1 OF 7 TO PLACE THE FINAL PAVEMENT MARKINGS (POLYUREA) AND MARKERS (PERMANENT RAISED) THROUGHOUT THE ENTIRE PROJECT (SEE SHEET PM-2.)

STEP 4 -- REMOVE ALL TRAFFIC CONTROL DEVICES.

APPROVED: <i>J.W. Woolard</i> DATE: 2/1/05	PROJECT PHASING										
	SCALE: NONE										
	DATE: FEB 2004										
	DESIGN BY: DAP										
	REVIEWED BY: JWW										
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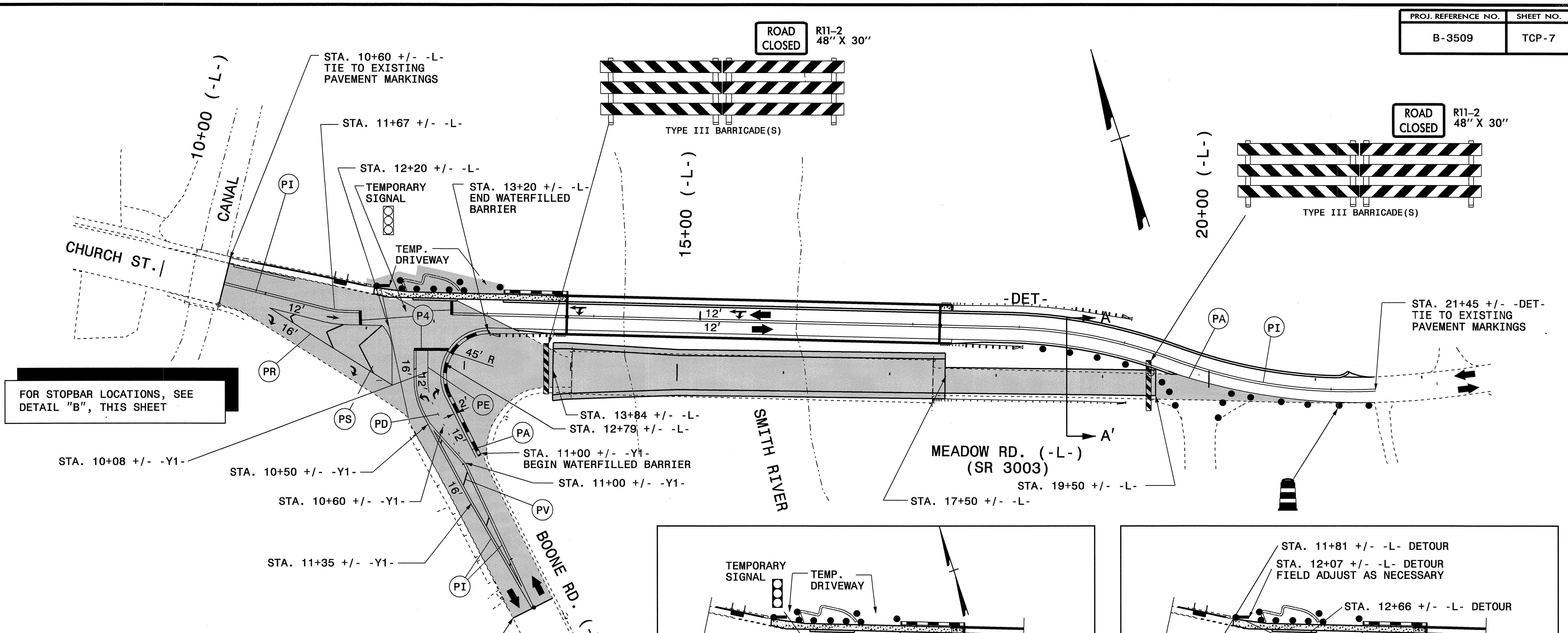
REMOVE AND PAVE EXISTING TRAFFIC ISLANDS AND CIRCLE



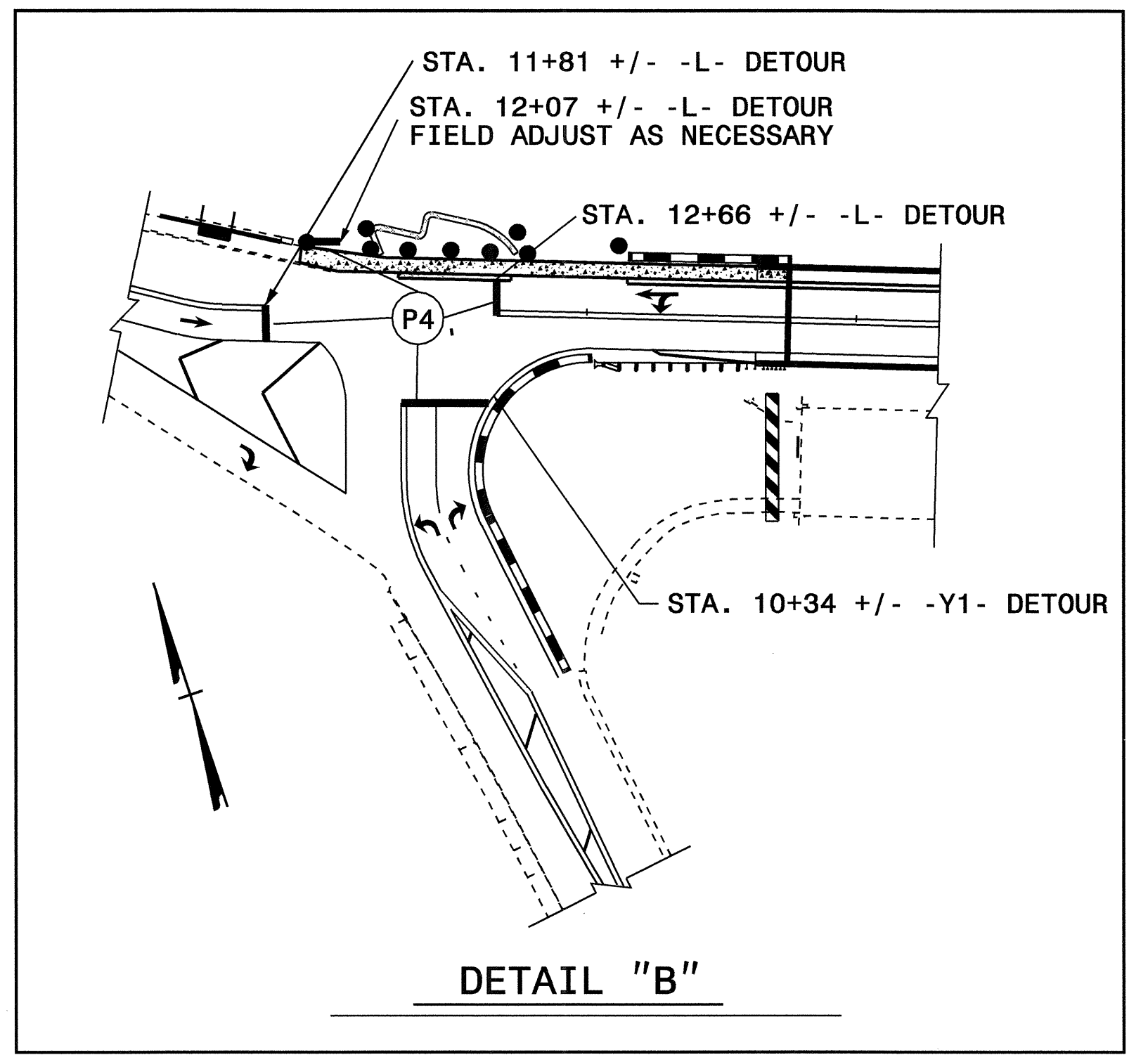
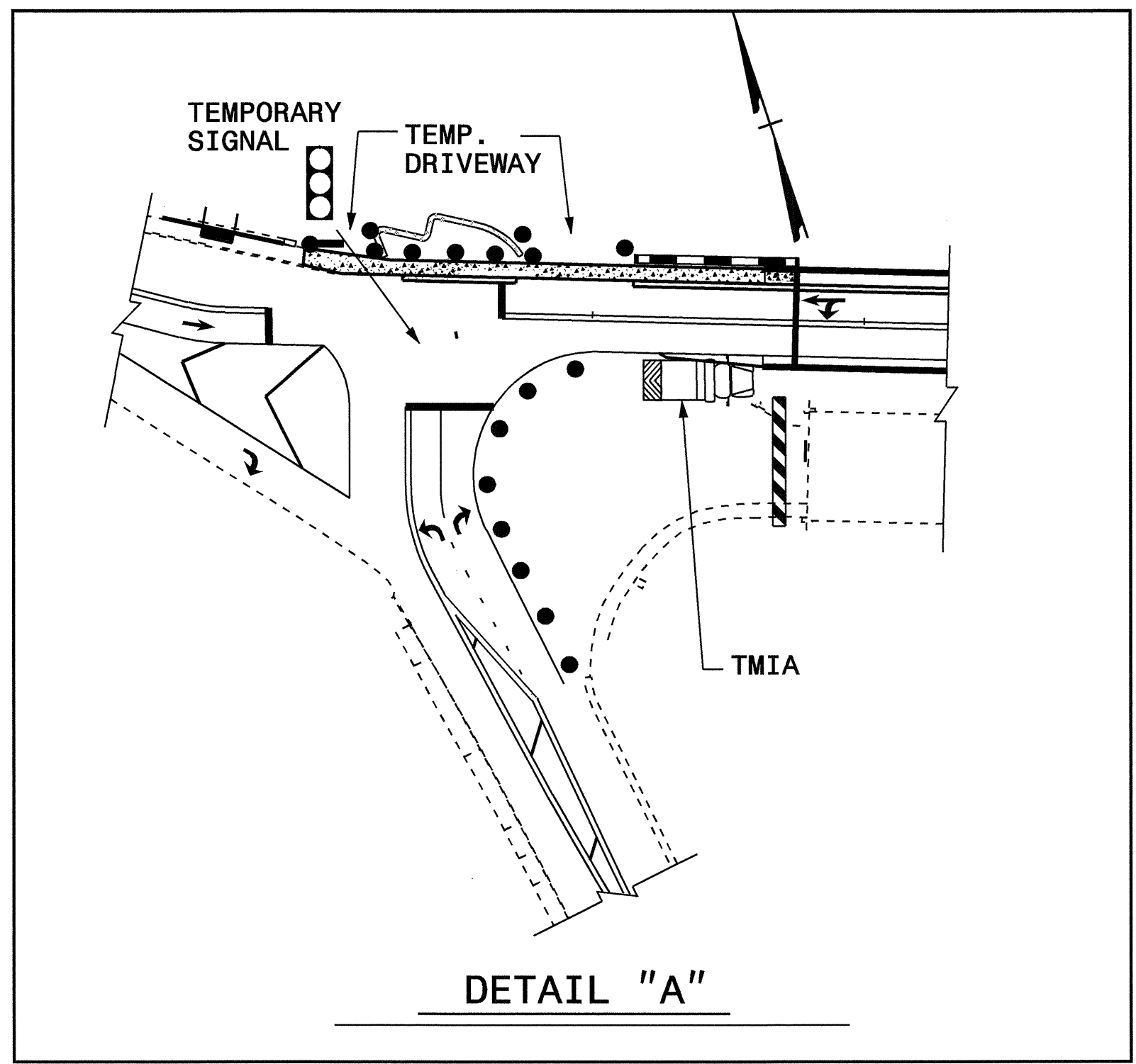
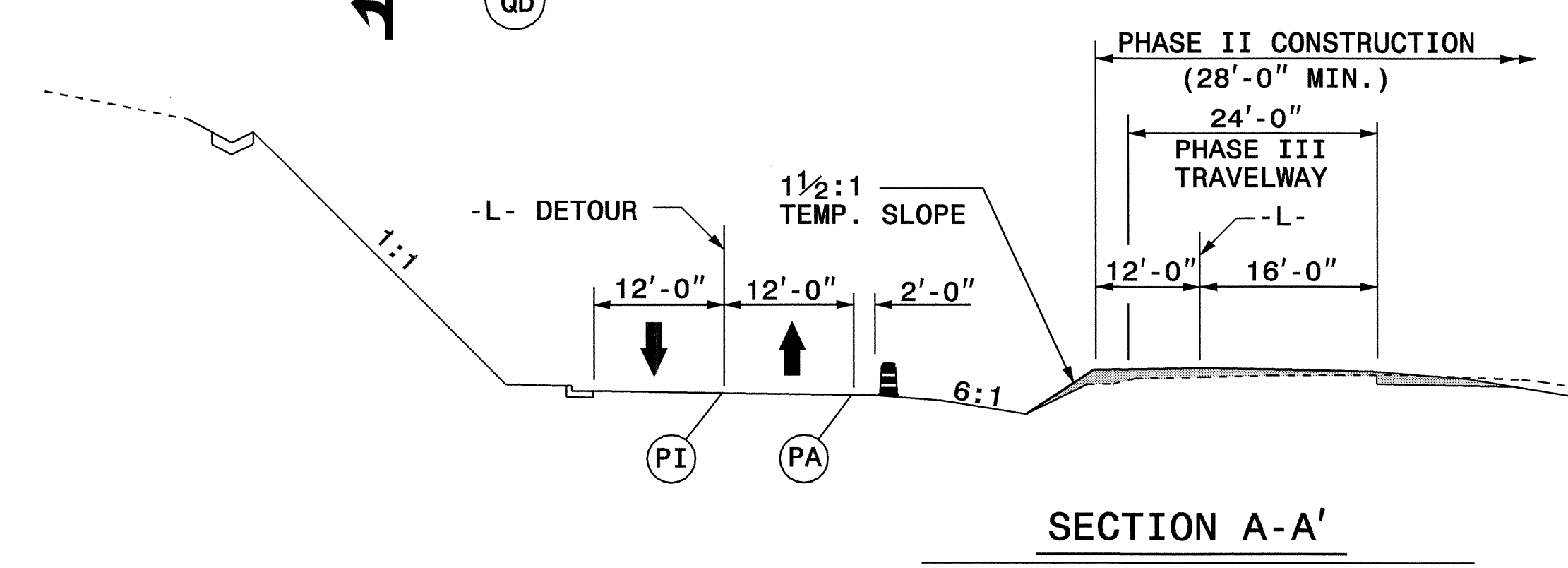
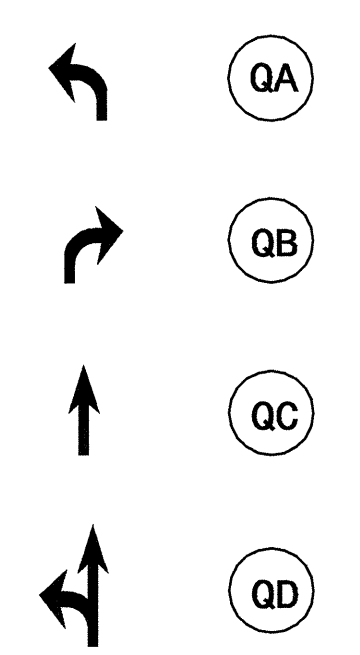
12-OCT-2005 11:11 \\nets-ccf\fs03\B3509\$Traffic\TrafficControl\Top\final\top\B3509_Tc_top_top06.dgn
 at WZTC22424

APPROVED: _____	DATE: _____	PHASE I, STEPS 3,4,5, & 7	
SCALE: NONE	DATE: SEP 2005		REVISIONS
DWG. BY: DAH	DESIGN BY: DAH		
REVIEWED BY: JWW			

FOR STOPBAR LOCATIONS, SEE
DETAIL "B", THIS SHEET



**PAVEMENT MARKING
SYMBOLS**

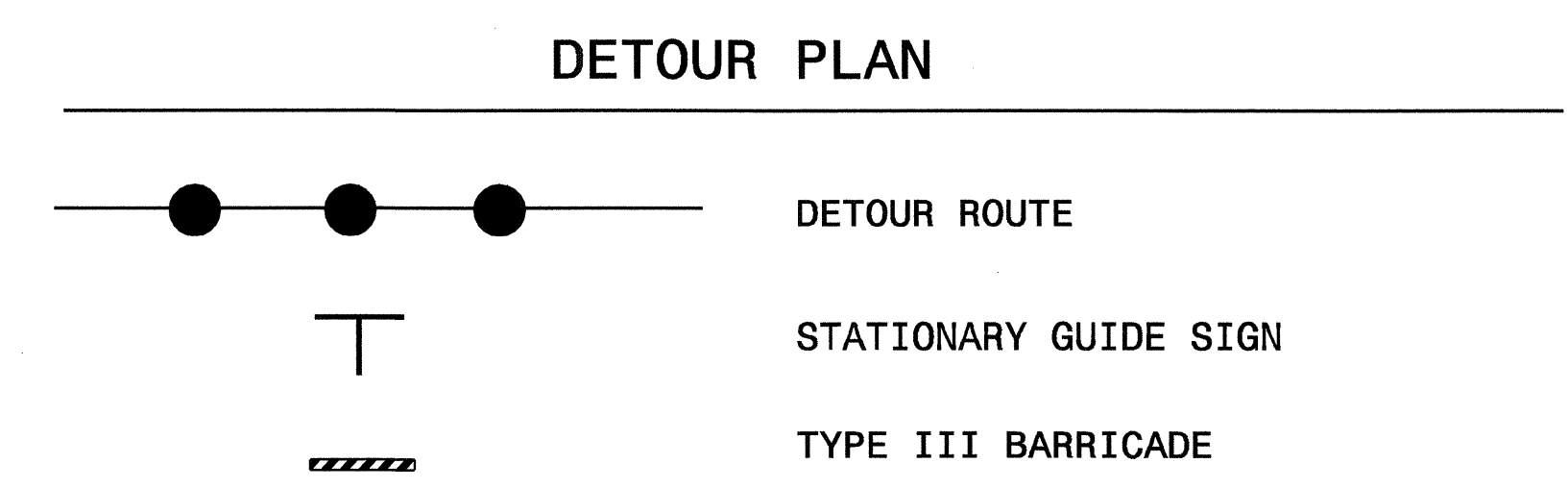
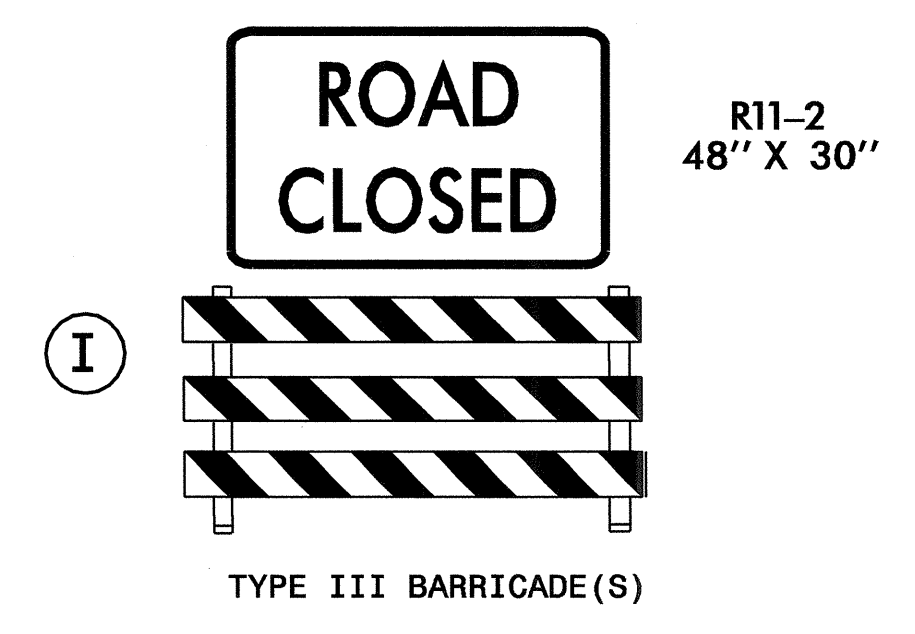
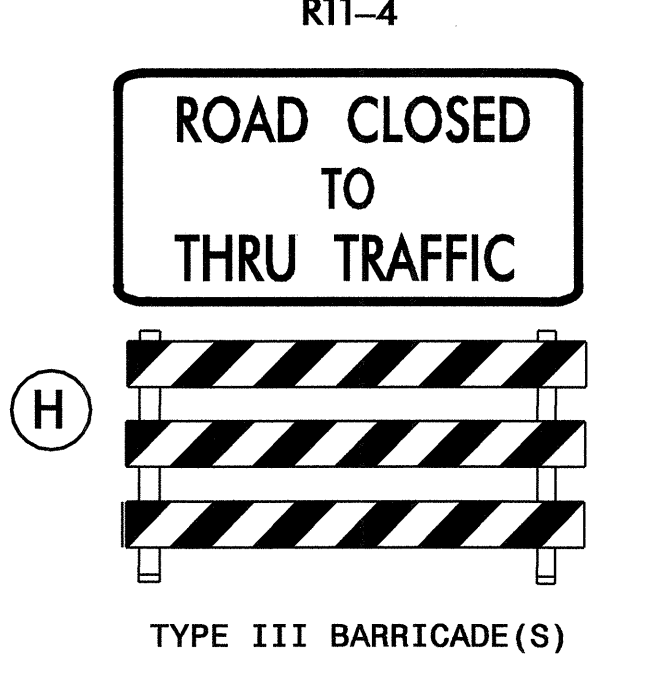
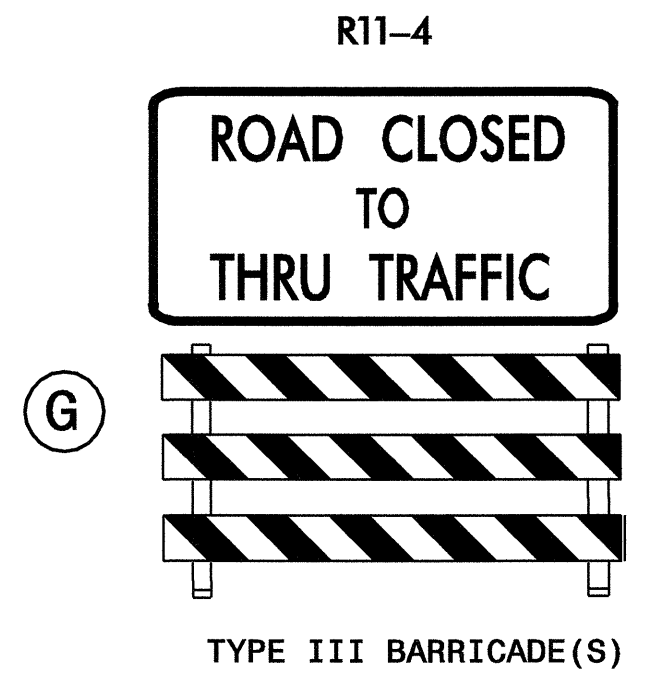
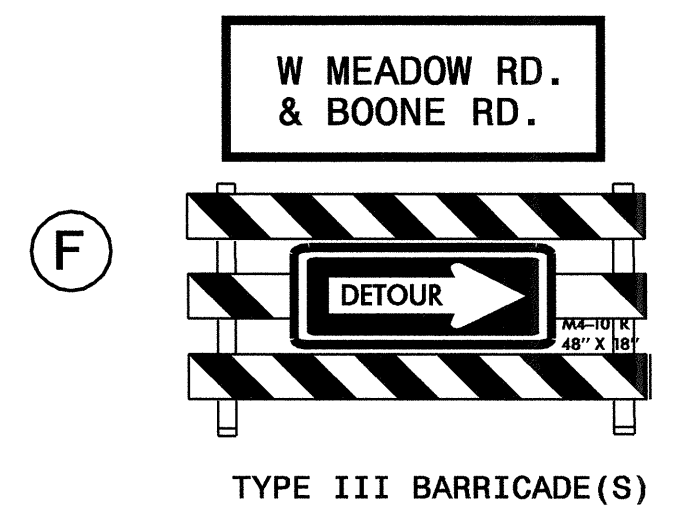
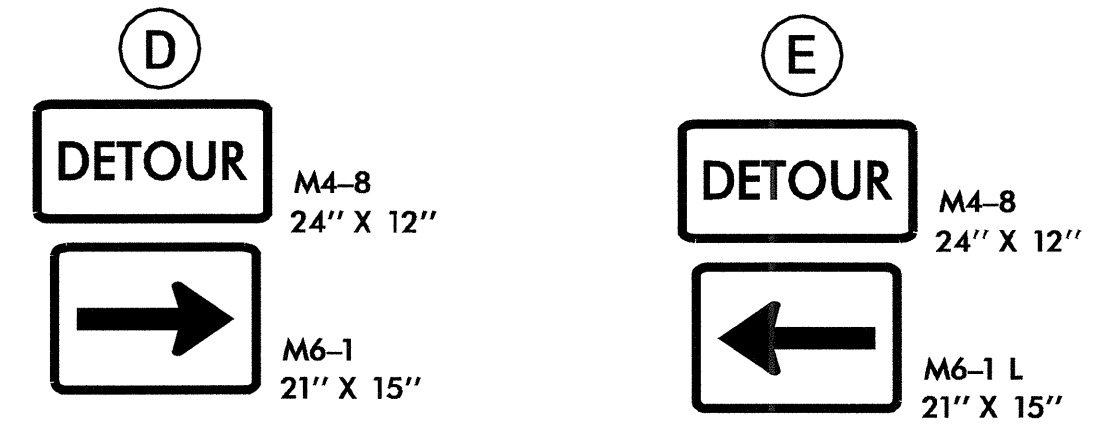
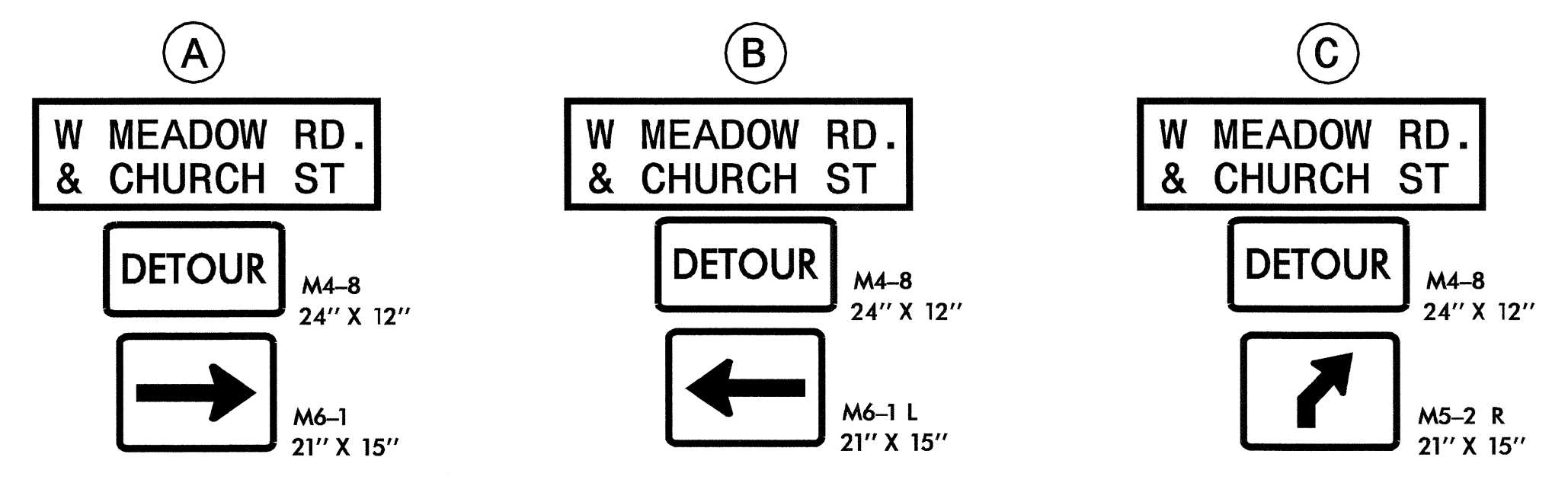
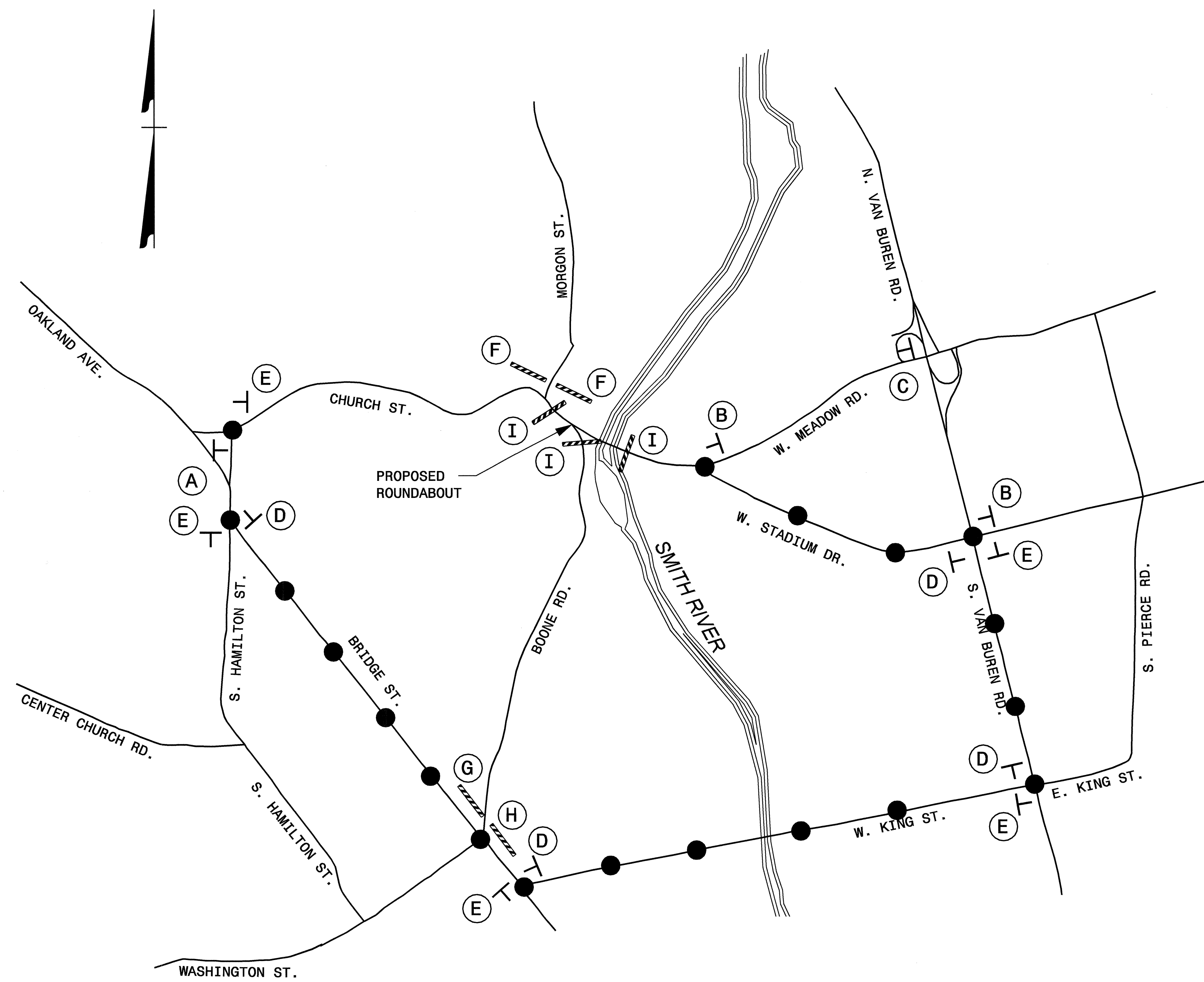


SEE SHEET PM-1 FOR TEMPORARY
PAVEMENT MARKING SCHEDULE.

APPROVED: _____ DATE: _____

PHASE II, STEPS 1 THROUGH 3	
SCALE: NONE	REVISIONS
DATE: SEP 2005	
DWG. BY: DAH	
DESIGN BY: DAH	
REVIEWED BY: JWW	

12-OCT-2005 10:43
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 ahayes AT WZTC22424



NOTE:
 INSTALL AND MAINTAIN ADDITIONAL TYPE III BARRICADES, BARRICADE MOUNTED SIGNS, AND STATIONARY WARNING SIGNS IN ACCORDANCE WITH ROADWAY STANDARD DRAWING 1101.03, SHEET 1 OF 9.

APPROVED: <i>J.W. Woolard</i> DATE: 6/1/05	OFFSITE DETOUR PLAN FOR PAVING/WEDGING/STRIPING OF PROPOSED ROUNDABOUT						
	SCALE: NONE						
	DATE: 3/05		<table border="1"> <tr> <th colspan="2">REVISIONS</th> </tr> <tr> <td> </td> <td> </td> </tr> </table>	REVISIONS			
	REVISIONS						
DESIGN BY: DAP	<table border="1"> <tr> <td>CADD FILE</td> <td> </td> </tr> </table>	CADD FILE					
CADD FILE							
REVIEWED BY: JWW							

3-MAY-2005 14:58
 \\ets-cctf\01\B3509\Top\B3509_top_tcp.dgn
 ddparker AT TCU22400

Sign Number: 0 **Design By:** M. TRACEY **Check By:** **STD #:** N/A
Type: D Ground **Project ID:** B-3509 **DIV:** 7 **Date:** Apr 05,2005
Quantity: 1

Sign Width: 4'-0" **Background Color:** Fluorescent Orange
Height: 2'-0" **Legend & Border Color:** Black
Total Area: 8.0 Sq.Ft.

Border Type: Recessed **Backing Material:** 0.125 in. Aluminum
Recess: 0.38" **0.079 in. Composite**
Width: 0.63"
Radii: 1.5"

BORDER R=1.5" TH=0.63" IN=0.38"

Spacing Factor is 0.7

NOTES:

- Legend and border shall be direct applied non-reflective sheeting.
- Background shall be Type VII retroreflective sheeting.

Letter spacings are to start of next letter												Series/Size Text Length	
	W		M	E	A	D	O	W		R	D		D6
6	3.8	3	3.7	2.7	3.8	3.2	3.3	3.8	3	3.3	2.5	6	34.5
	&		C	H	U	R	C	H		S	T		D6
6.5	4.8	3	3.2	3.3	3.3	3.2	3.2	2.5	3	3.2	2.2	6.5	20.7

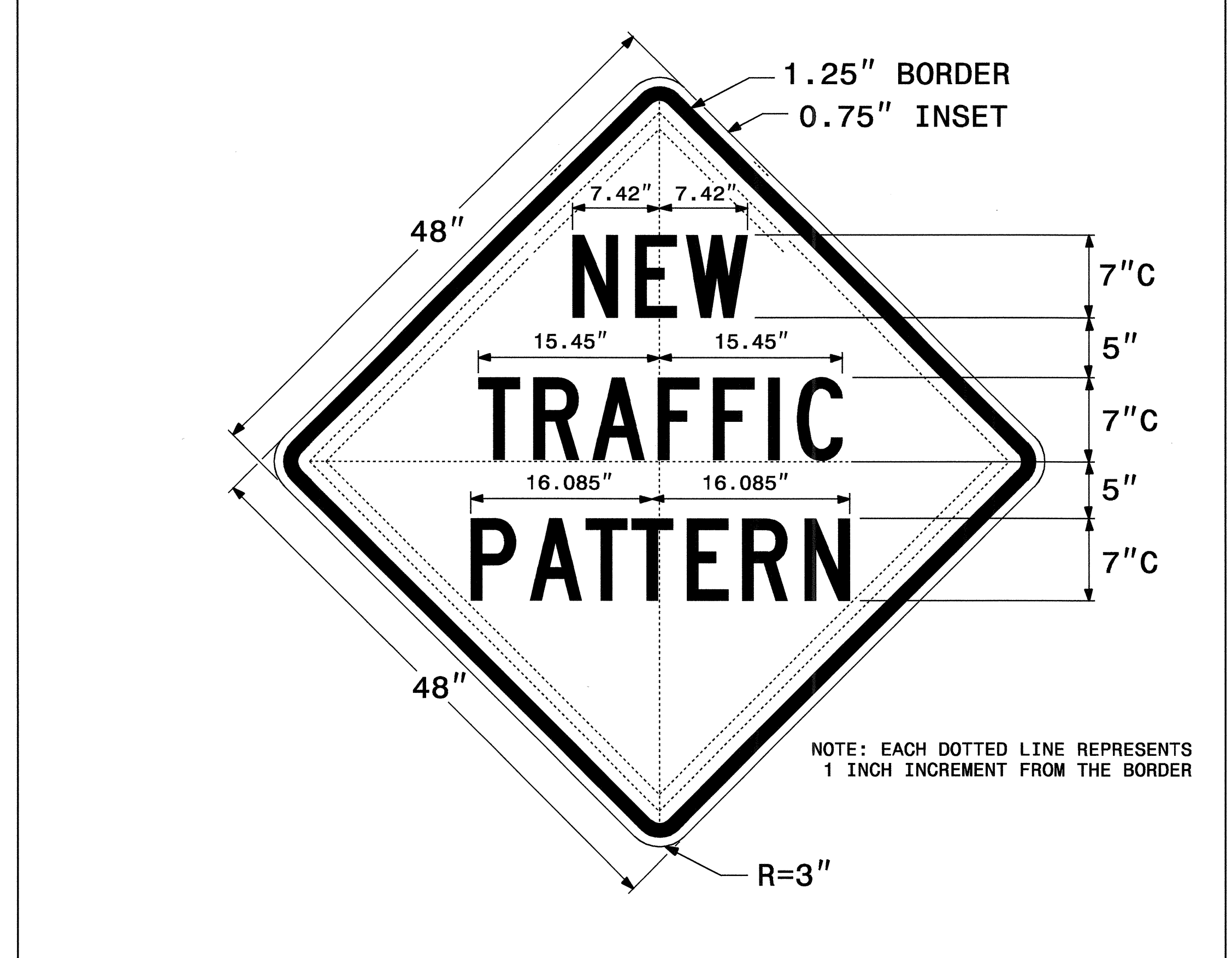
Spacing Factor is 1 unless specified otherwise
FILENAME: GS40_ENGL

SIGN NUMBER: SP97117 **DESIGN BY:** A. HUSSEY **CK BY:** **STD #:** W-31-1SP **DATE:** 01/09/03
TYPE: E **BACKGROUND COLOR:** ORANGE **PROJECT ID:** U-2728 **DIV:** T/C
QUANTITY: 2 **COPY COLOR:** BLACK
SIGN WIDTH: 48 INCHES **MAJ. COPY SERIES:** C
HEIGHT: 48 INCHES
TOTAL AREA: 16.00 (S.F.)
BORDER TYPE: RECESSED
RECESS: 0.75 INCHES
WIDTH: 1.25 INCHES
RADII: 3.00 INCHES
MAT'L: TO BE DETERMINED

NOTE: SEE DIAGRAM BELOW.

NOTES:

- Legend and border shall be direct applied non-reflective sheeting.
- Background shall be type I reflective sheeting.



Sign Number: 0 **Design By:** M. TRACEY **Check By:** **STD #:** N/A
Type: D Ground **Project ID:** B-3509 **DIV:** 7 **Date:** Apr 05,2005
Quantity: 1

Sign Width: 4'-0" **Background Color:** Fluorescent Orange
Height: 2'-0" **Legend & Border Color:** Black
Total Area: 8.0 Sq.Ft.

Border Type: Recessed **Backing Material:** 0.125 in. Aluminum
Recess: 0.38" **0.079 in. Composite**
Width: 0.63"
Radii: 1.5"

BORDER R=1.5" TH=0.63" IN=0.38"

Spacing Factor is 0.7

NOTES:

- Legend and border shall be direct applied non-reflective sheeting.
- Background shall be Type VII retroreflective sheeting.

Letter spacings are to start of next letter												Series/Size Text Length	
	W		M	E	A	D	O	W		R	D		D6
6	3.8	3	3.7	2.7	3.8	3.2	3.3	3.8	3	3.3	2.5	6	34.5
	&		B	O	O	N	E			R	D		D6
7.9	4.8	3	3.2	3.3	3.5	3.3	2.2	3	3.3	2.5	7.9	20.7	

Spacing Factor is 1 unless specified otherwise
FILENAME: GS40_ENGL

APPROVED: *J.W. Woolard, Jr.* DATE: 6/1/05

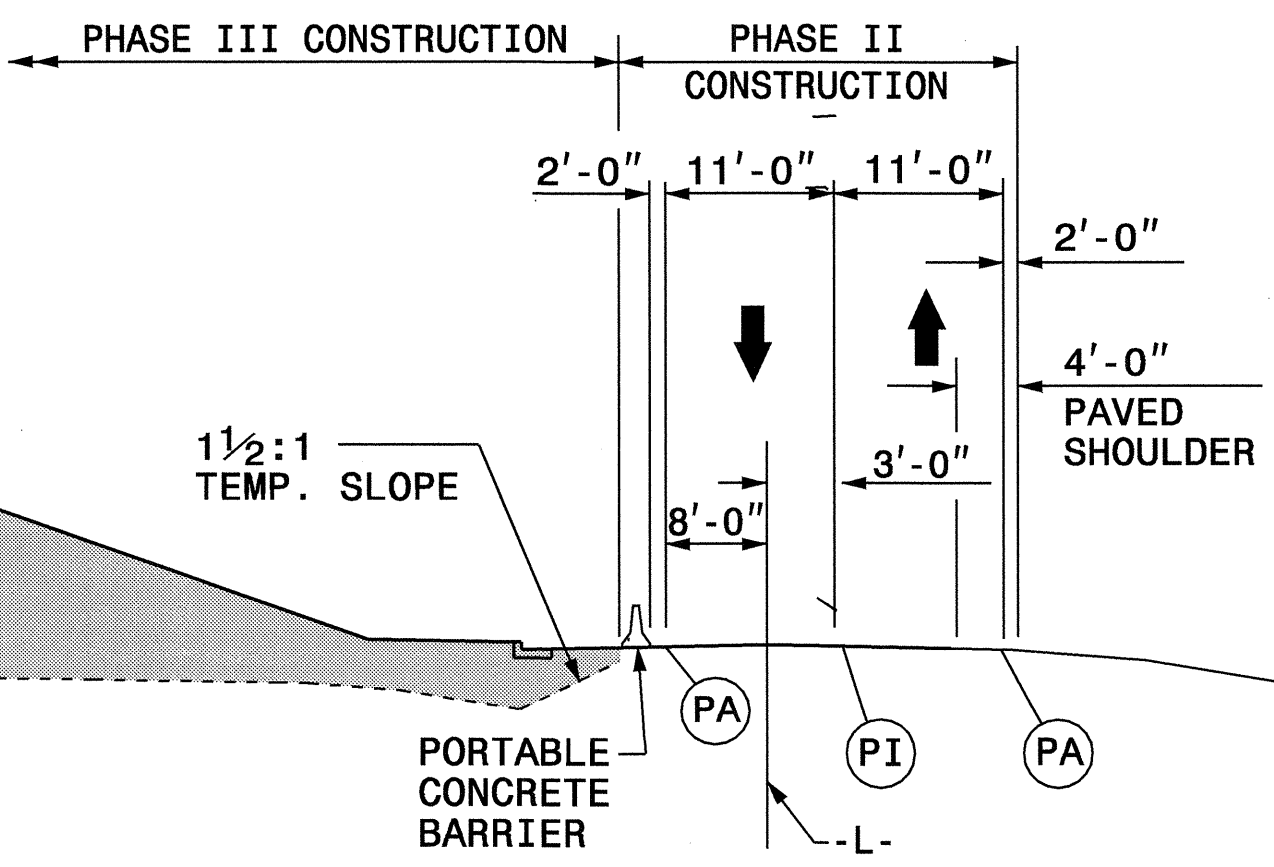
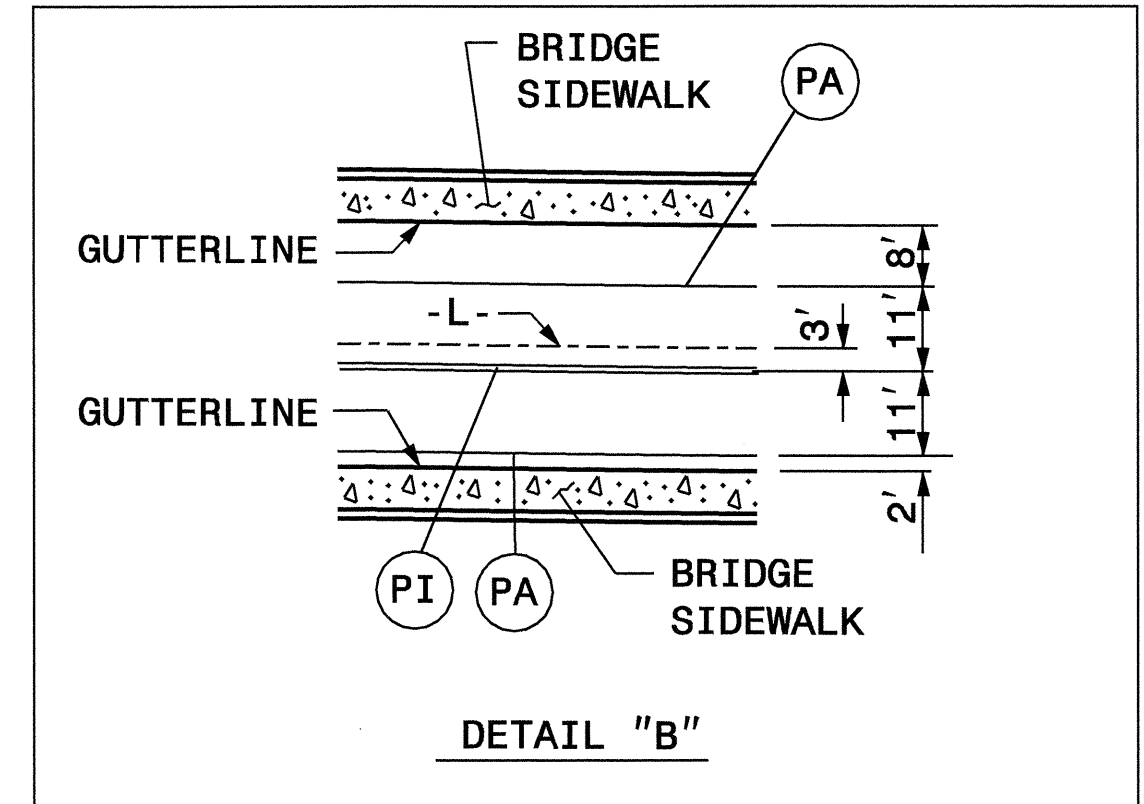
SPECIAL SIGN DESIGNS

SCALE: NONE		REVISIONS
DATE: 3/05		
DWG. BY: DAP		
DESIGN BY: DAP		
REVIEWED BY: JWW		

31-MAY-2005 14:58
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 darparker AT TCU22400



SEE DETAIL "A" ON SHEET TCP-10A FOR ADDITIONAL PAVEMENT MARKING AND SIGNAGE DETAILS FOR THE PHASE III INTERMEDIATE TRAFFIC PATTERN WITHIN THE PROPOSED ROUNDABOUT

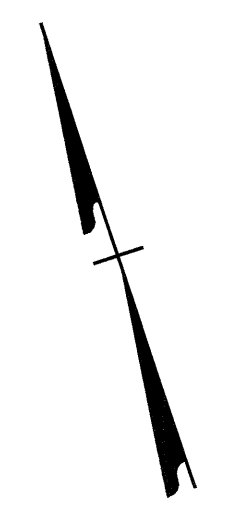


SECTION B-B'

SEE SHEET PM-1 FOR TEMPORARY PAVEMENT MARKING SCHEDULE.

APPROVED:	DATE:	PHASE III DETAILS									
SCALE:	NONE		<table border="1"> <tr> <th colspan="2">REVISIONS</th> </tr> <tr> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> </tr> </table>	REVISIONS							
REVISIONS											
DATE:	SEP 2005										
DWG. BY:	DAH										
DESIGN BY:	DAH										
REVIEWED BY:	JWW										

12-OCT-2005 11:09
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 at: WZTC22424



R1-2
48"X48"X48"

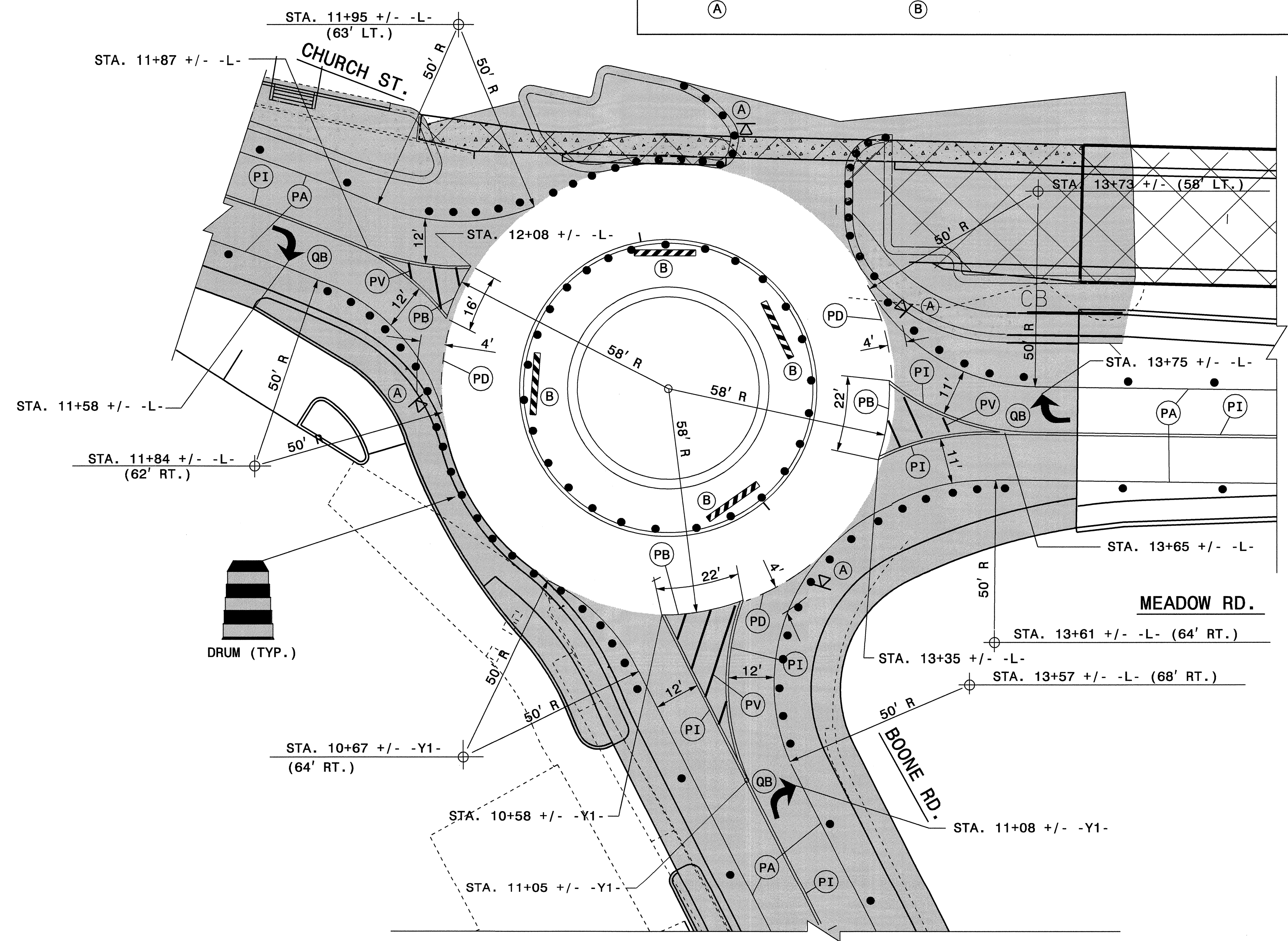
(A)

R6-1 R
36" X 12"

(B)

NOTE:

PLACE PORTABLE "YIELD" SIGN (R1-2) AND TYPE III BARRICADES WITH "ONE WAY" SIGNS (R6-1R) IN THE APPROXIMATE LOCATION AS SHOWN IN THIS DETAIL. RELOCATE AS CONSTRUCTION DICTATES, AS DIRECTED BY THE ENGINEER.



SEE SHEET PM-1 FOR TEMPORARY PAVEMENT MARKING SCHEDULE.

DETAIL "A" - PHASE III INTERMEDIATE TRAFFIC PATTERN WITHIN THE PROPOSED ROUNDABOUT

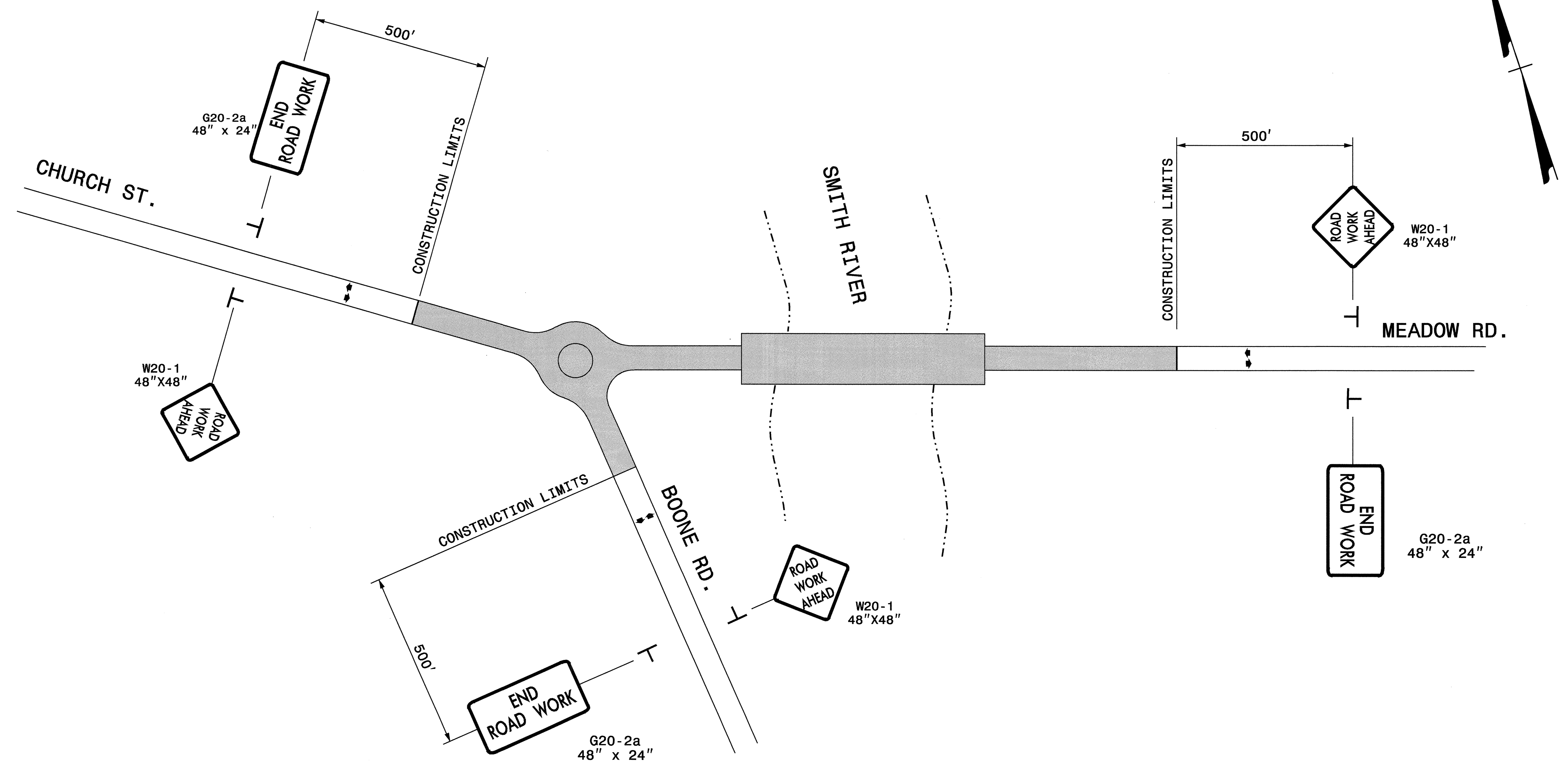
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 anayas AT WZTC22424

APPROVED: _____	DATE: _____	PHASE III DETAILS		
	SCALE: NONE			
	DATE: SEP 2005			REVISIONS
	DWG. BY: DAH			
	DESIGN BY: DAH			
REVIEWED BY: JWW				

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

DETAIL DRAWING FOR
 TWO-WAY UNDIVIDED
 WORK ZONE WARNING SIGNS

SHEET 1 OF 1



- 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.

LEGEND

┆ STATIONARY SIGN

◄ DIRECTION OF TRAFFIC FLOW

APPROVED: *J.W. Woolard* DATE: 6/1/05

SEAL

DETAIL DRAWING FOR TWO-WAY UNDIVIDED AND URBAN FREEWAYS ADVANCED WORK ZONE WARNING SIGNS

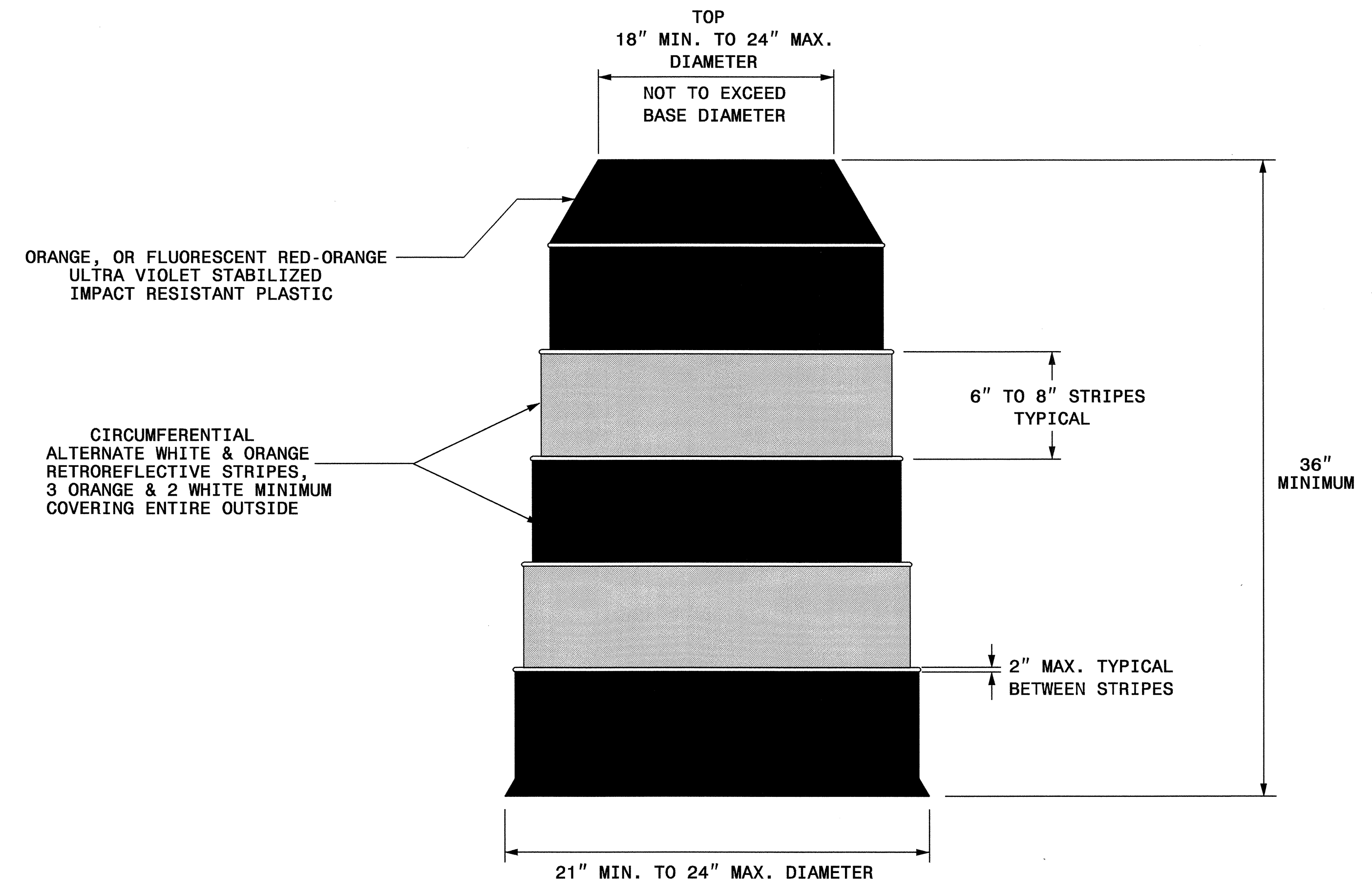
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DESIGN BY:	DAP	01/01
REVIEWED BY:	JWW	

31-MAY-2005 14:59
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 doparker AT TCU224100

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

ENGLISH STANDARD DRAWING FOR
DRUMS

SHEET 1 OF 1
1130D01



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

ENGLISH STANDARD DRAWING FOR
DRUMS

SHEET 1 OF 1
1130D01

GENERAL NOTES

- BALLASTING SHALL BE ACHIEVED BY THE SAND BAG, TIRE-SIDEWALL BALLAST, OR PREFORMED WEIGHTED BASE BALLASTING METHODS. DO NOT PLACE BALLAST ON TOP OF THE DRUM, NOR AS TO PRESENT A HAZARD WHEN STRUCK.
- IF NECESSARY PLACE THE NAME OF THE AGENCY, CONTRACTOR, OR SUPPLIER ON NON-RETROREFLECTIVE DRUM SURFACES. SHOW THE LETTERS AND NUMBERS USING A NON-RETROREFLECTIVE COLOR AND NOT OVER 2" IN HEIGHT.

31-MAY-2005 14:59
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AT TC0224100
daparker

APPROVED: <i>J. W. Woolard</i> DATE: 6/1/05	REPLACEMENT DETAIL FOR RSD 1130.01		
SEAL 	SCALE: NONE		
	DATE: 8/02		REVISIONS
	DWG. BY: MMM		
	DESIGN BY: MMM		
REVIEWED BY: MMM			

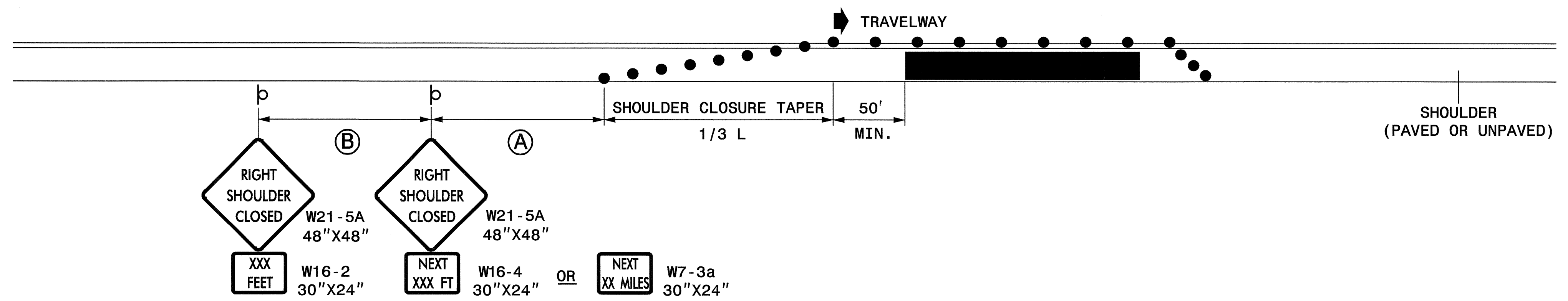
STATE OF NORTH CAROLINA
DEPT. OF TRANSPORTATION
DIVISION OF HIGHWAYS
RALEIGH, N.C.

1-05

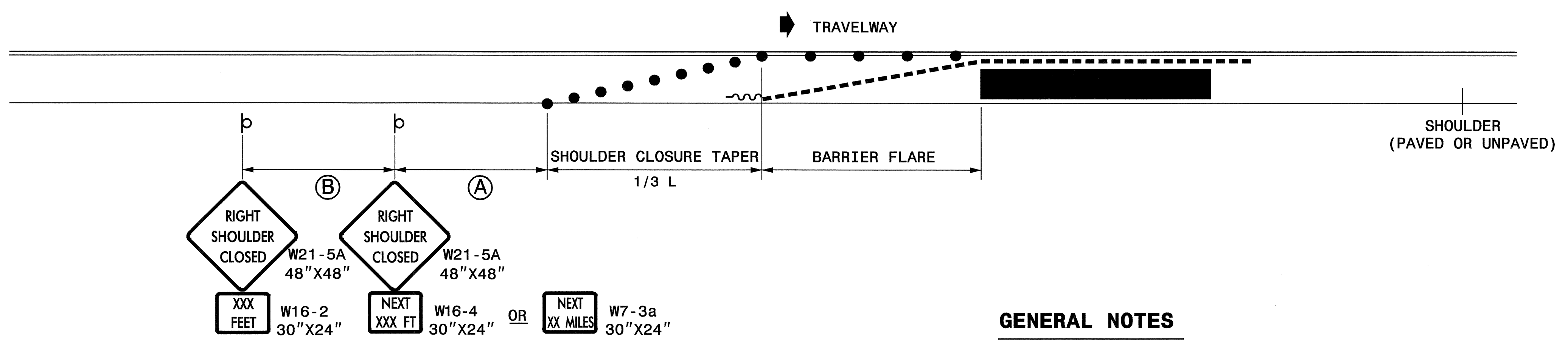
ENGLISH STANDARD DRAWING FOR
TEMPORARY SHOULDER CLOSURES

SHEET 1 OF 1
1101D04

SHOULDER CLOSURES UTILIZING DRUMS



SHOULDER CLOSURES UTILIZING TEMPORARY BARRIER



GENERAL NOTES

- PLACE SHOULDER CLOSURE SIGNS ON THE SAME SIDE AS THE SHOULDER THAT IS CLOSED.
- PLACE DRUMS IN THE SHOULDER TAPER AT THE MAXIMUM SPACING EQUAL IN FEET TO THE POSTED SPEED LIMIT. THE MAXIMUM SPACING OF DRUMS ALONG THE WORK AREA AND BARRIER FLARE IS EQUAL IN FEET TO 2 TIMES THE POSTED SPEED LIMIT.
- FLARE THE APPROACH END OF PORTABLE CONCRETE BARRIER BEYOND THE SHOULDER AND USE A CRASH CUSHION FOR PROTECTION IF THE EXPOSED END OF THE BARRIER IS WITHIN THE "CLEAR ZONE".
- USE STATIONARY SIGNS FOR LONG TERM OPERATIONS (LONGER THAN 3 DAYS).
- REFER TO STD. 1101.11 SHEETS 1, 3, & 4, FOR "L" DISTANCE, BARRIER FLARE RATES, AND SIGN SPACING.

LEGEND

- ~ TEMPORARY CRASH CUSHION
- - - PORTABLE CONCRETE BARRIER
- DRUM
- ⊐ STATIONARY OR PORTABLE SIGN
- ➔ DIRECTION OF TRAFFIC FLOW

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ENGLISH STANDARD DRAWING FOR
TEMPORARY SHOULDER CLOSURES

SHEET 1 OF 1
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APPROVED: <i>J.W. Woolard</i> DATE: 6/1/05	REPLACEMENT DETAIL FOR RSD 1101.04	
	SCALE: NONE	
	DATE: 11/04	
	DWG. BY: MMM	
	DESIGN BY: MMM	
REVIEWED BY: MMM	REVISIONS	

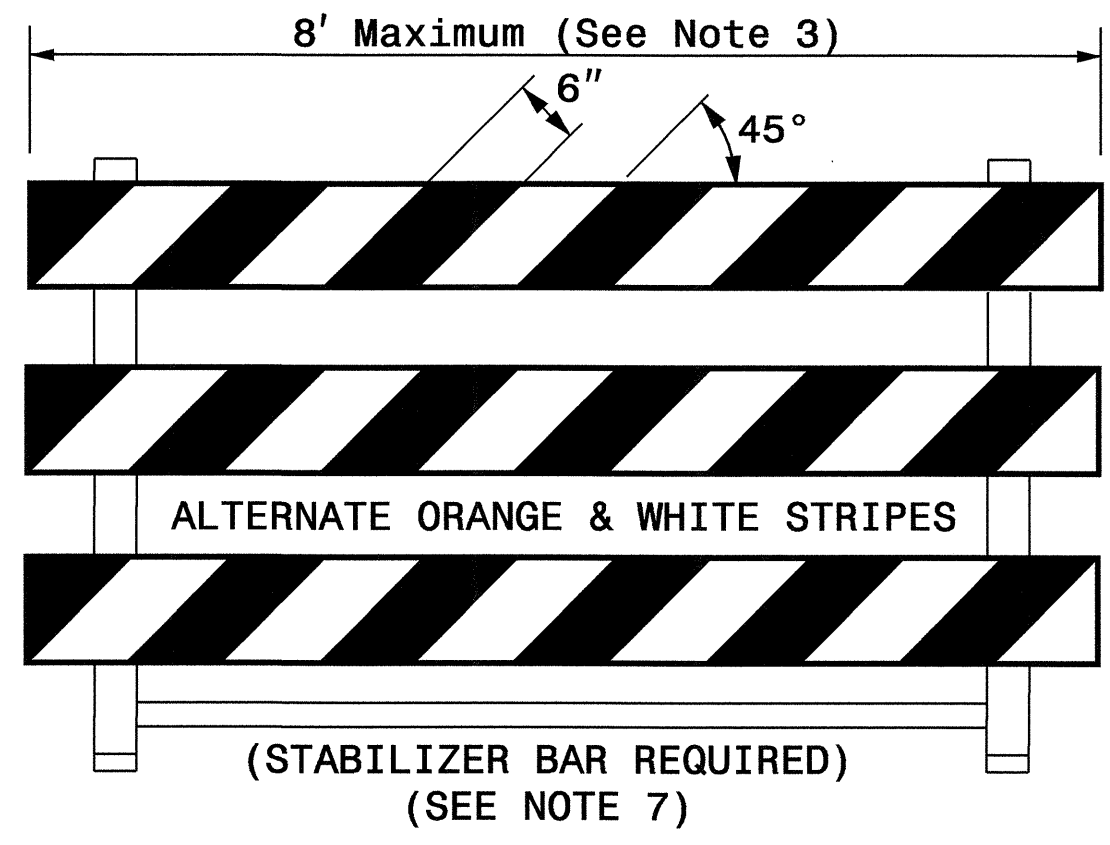
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1-05

ENGLISH STANDARD DRAWING FOR
BARRICADES
TYPE-III

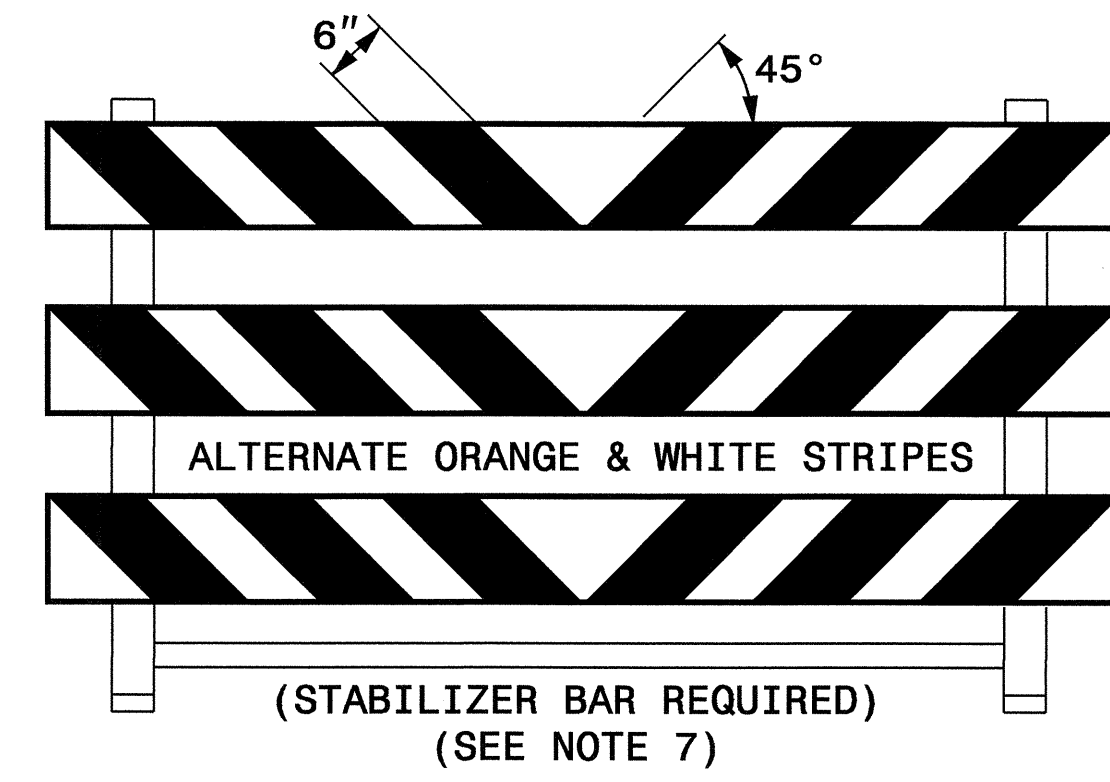
SHEET 1 OF 1
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TYPE III BARRICADE



TYPE III BARRICADE

END-OF-ROADWAY APPLICATIONS



GENERAL NOTES

- 1) HORIZONTAL RAILS FOR TYPE-III BARRICADES MAY BE HOLLOW/CORRUGATED EXTRUDED RIGID POLYOLEFIN, HIGH DENSITY POLYETHYLENE, OR OTHER NCDOT APPROVED RAILS. BARRICADE RAILS OF FRANGIBLE PLASTICS SUCH AS PVC MAY NOT BE USED. IF APPROVED PLASTIC TYPE RAILS ARE USED, THEY MUST BE FLAME TREATED BY THE MANUFACTURER SO THAT REFLECTIVE SHEETING MAY ADHERE PROPERLY.
- 2) BARRICADES AND BARRICADE RAILS ARE APPROVED AS A SINGLE UNIT.
- 3) BARRICADE SHALL BE LIMITED TO A MAXIMUM LENGTH OF 8 FT UNLESS NCHRP 350 CRASH TESTED AND NCDOT APPROVED.
- 4) ONLY NCDOT APPROVED COMPOSITE AND ROLL-UP SIGNS MAY BE MOUNTED ON THE BARRICADE.
- 5) SIGNS MOUNTED ON BARRICADES SHOULD NOT COVER MORE THAN 50 PERCENT OF THE TOP TWO RAILS OR 33 PERCENT OF THE TOTAL AREA OF THE THREE RAILS.
- 6) USE TYPE VII, VIII OR IX SHEETING ON BOTH SIDES OF THE RAILS.
- 7) BARRICADE MUST BE NCHRP 350 AND NCDOT APPROVED WITH STABILIZER BAR OR ADEQUATE LATERAL BRACING.
- 8) ASSEMBLY OF THE GENERIC BARRICADES MUST BE SELF CERTIFIED BY THE ASSEMBLER.
- 9) 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 PATTERN.
- 10) STRIPES ON WORK ZONE BARRICADE RAILS SHALL BE ALTERNATE ORANGE AND WHITE RETROREFLECTIVE STRIPES, SLOPED DOWNWARD TOWARDS THE SIDE WHICH TRAFFIC IS TO PASS OR TURN IN DETOURING. WHERE NO TURNS ARE INTENDED, THE STRIPES SHOULD SLOPE DOWNWARD TOWARD THE CENTER OF THE BARRICADE OR BARRICADES. USE RED AND WHITE STRIPES FOR PERMANENT BARRICADES.
- 11) SEE APPROVED PRODUCTS LIST FOR MANUFACTURERS OF APPROVED BARRICADES.
- 12) PLACE MANUFACTURER'S NAME AND FEDERAL HIGHWAY ADMINISTRATION'S NCHRP 350 APPROVAL LETTER NUMBER ON BARRICADE.
- 13) USE SANDBAGS PLACED ON THE LOWER PART OF THE FRAME FOR BALLASTING. DO NOT PLACE SANDBAGS ON TOP OF A STRIPED RAIL. DO NOT BALLAST BARRICADES BY HEAVY OBJECTS SUCH AS ROCKS, CHUNKS OF CONCRETE OR OTHER ITEMS THAT WOULD CAUSE DAMAGE IF THE BARRICADE IS STRUCK BY A VEHICLE.

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ENGLISH STANDARD DRAWING FOR
BARRICADES
TYPE-III

SHEET 1 OF 1
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APPROVED: <i>J.W. Woolard</i> DATE: 6/1/05	REPLACEMENT DETAIL FOR RSD 1145.01	
	SCALE: NONE	
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