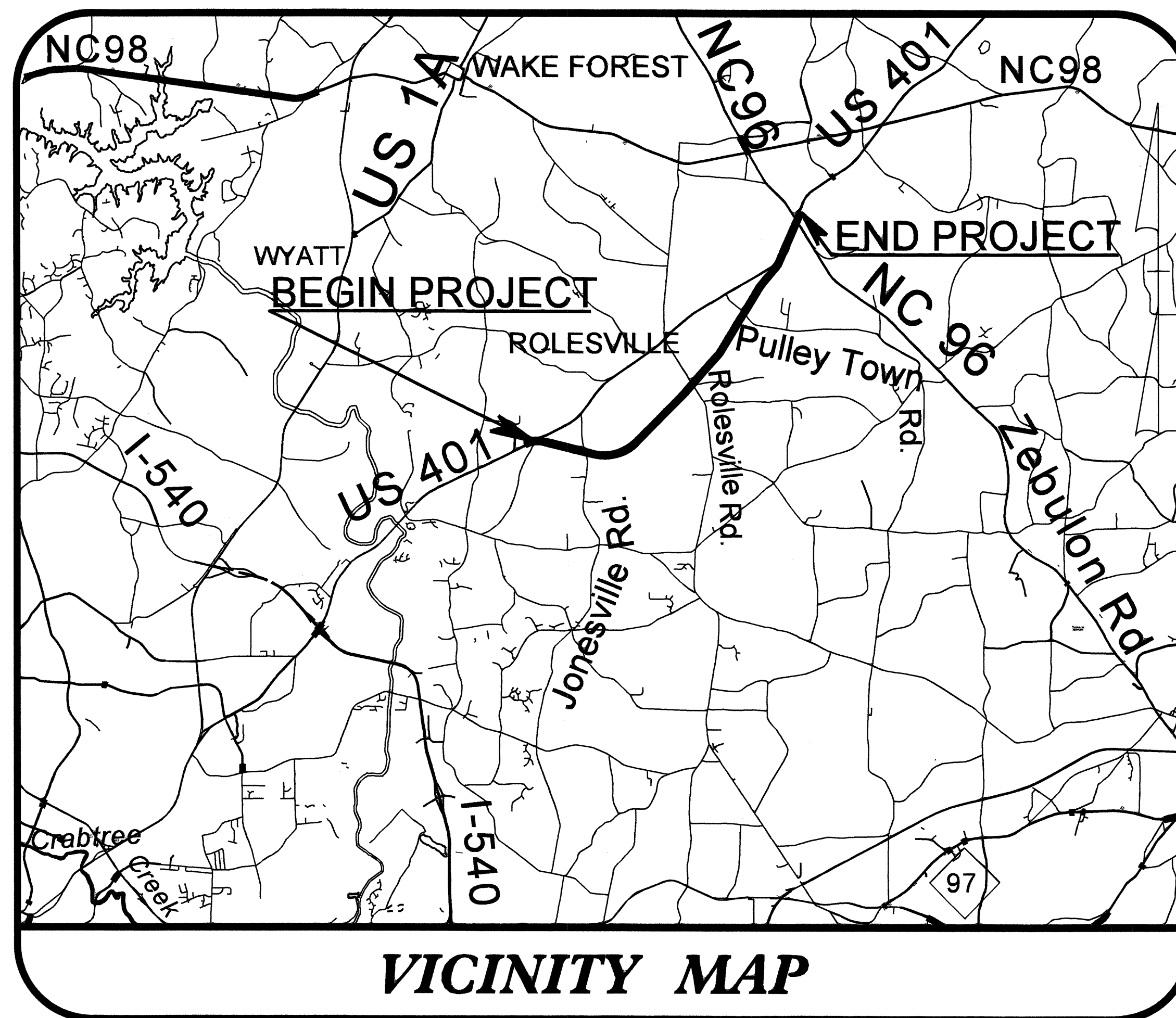
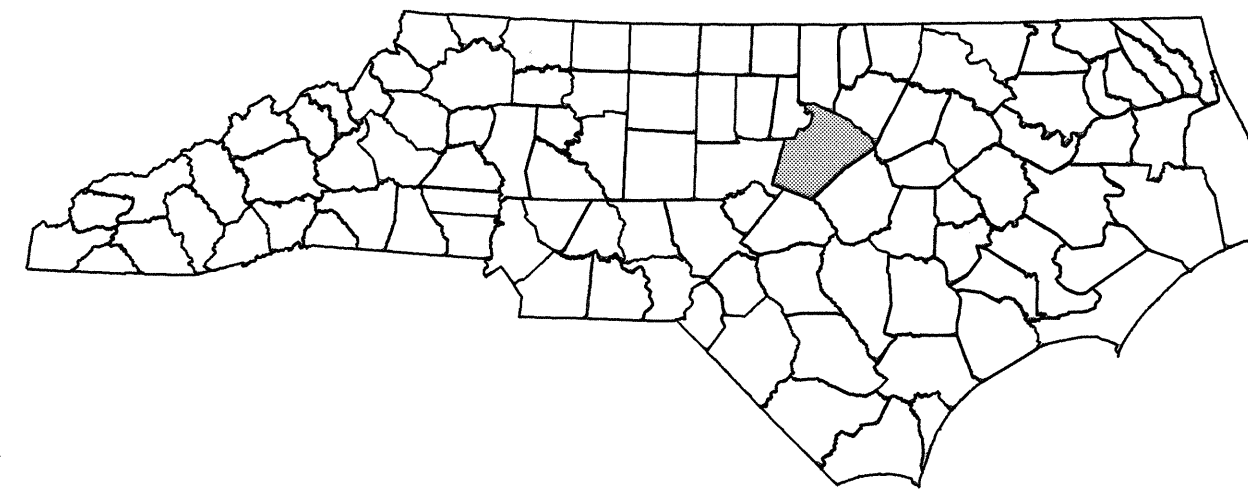


STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

TRANSPORTATION MANAGEMENT PLAN

WAKE COUNTY



VICINITY MAP

INDEX OF SHEETS

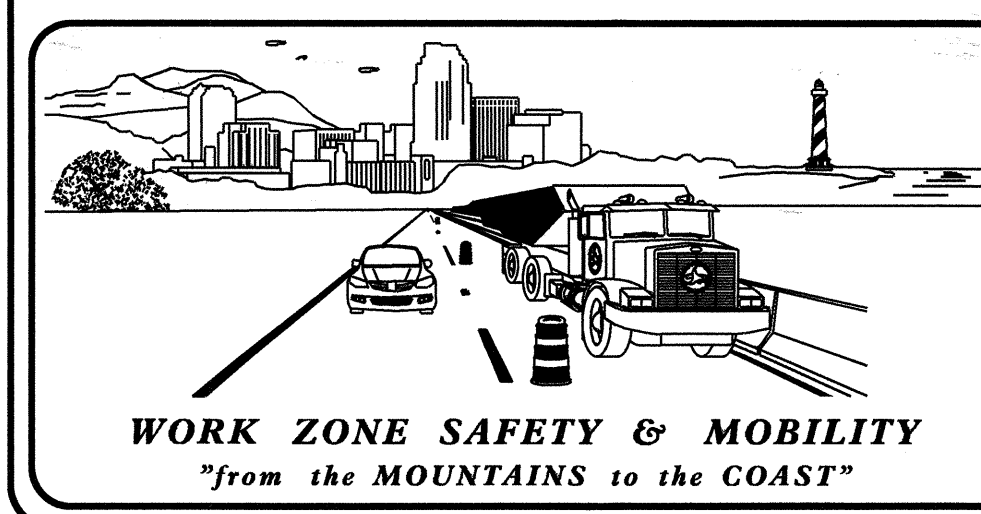
SHEET NO.	TITLE
TMP-1	TITLE SHEET, AND INDEX OF SHEETS
TMP-1A	LIST OF APPLICABLE ROADWAY STANDARD DRAWINGS, LEGEND, AND TEMPORARY PAVEMENT MARKING
TMP-1B-TMP-1D	TRANSPORTATION OPERATIONS PLAN: (WORK ZONE SAFETY MANAGEMENT STRATEGIES, GENERAL NOTES AND LOCAL NOTES)
TMP-2A	ADVANCED WORK ZONE WARNING SIGNS FOR FREEWAYS (4 LANES OR GREATER)
TMP-2B	DETAIL DRAWING FOR ADVANCED WORK ZONE WARNING SIGN DESIGNS
TMP-3	AREA OVERVIEW
TMP-4A-TMP-4B	AREA I TEMPORARY TRAFFIC CONTROL PHASING
TMP-5-TMP-7	AREA I PHASE I
TMP-8	AREA I US 401 OFFSITE DETOUR
TMP-9	AREA I LOUISIBURY RD OFFSITE DETOUR
TMP-10-TMP-14	AREA I PHASE I DETAIL
TMP-15	AREA I PHASE I
TMP-16-TMP-20	AREA I PHASE II DETAIL
TMP-21	AREA I US 401 AT -Y6- OFSITE DETOUR
TMP-22-TMP-23	AREA I PHASE II DETAIL
TMP-24	AREA I PHASE III DETAIL
TMP-25	AREA II TEMPORARY TRAFFIC CONTROL PHASING
TMP-26	AREA II PHASE I
TMP-27	AREA II JONESVILLE RD (-Y2-) OFFSITE DETOUR
TMP-28	AREA II PHASE II DETAIL
TMP-29	AREA III TEMPORARY TRAFFIC CONTROL PHASING
TMP-30-TMP-31	AREA III PHASE I
TMP-32	AREA III ROLESVILLE RD (-Y3-) OFFSITE DETOUR
TMP-33	AREA III PHASE II DETAIL
TMP-34	AREA IV TEMPORARY TRAFFIC CONTROL PHASING
TMP-35	AREA IV PHASE I
TMP-36	AREA IV PULLEYTOWN RD (-Y5-) OFFSITE DETOUR
TMP-37	AREA IV PHASE I DETAIL
SD-1-SD-2	SPECIAL SIGN DESIGN

SHEET NO.
TMP-1

R-2814B

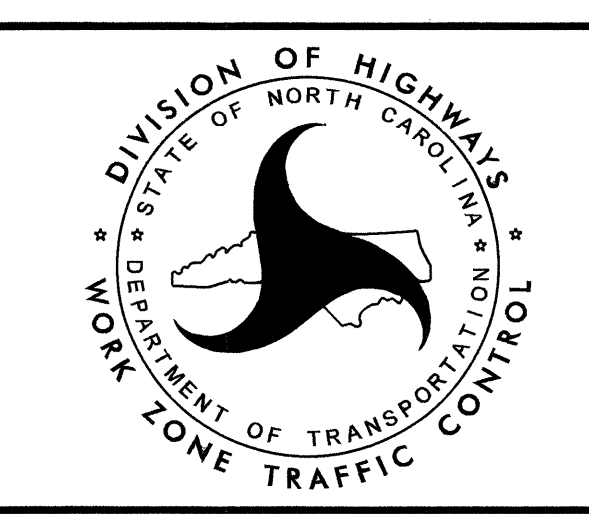
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N.C.D.O.T. WORK ZONE TRAFFIC CONTROL
1580 MAIL SERVICE CENTER (MSC) RALEIGH, NC 27699-1580
1020 BIRCH RIDGE DRIVE, RALEIGH, NC 27610 (DELIVERY)
PHONE: (919) 250-4094 FAX: (919) 250-4098

J. S. BOURNE, P.E. STATE TRAFFIC MANAGEMENT ENGINEER
J. ISHAK, P.E. TRAFFIC CONTROL PROJECT ENGINEER
TRAFFIC CONTROL PROJECT DESIGN ENGINEER
S. B. JENNINGS TRAFFIC CONTROL DESIGN ENGINEER



APPROVED: _____
DATE: Oct 29, 2010




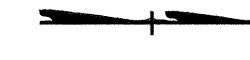



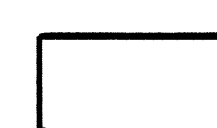
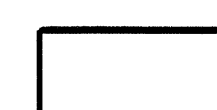
ROADWAY STANDARD DRAWINGS

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
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
1115.01	FLASHING ARROW PANELS
1130.01	DRUMS
1145.01	BARRICADES
1150.01	FLAGGING DEVICES
1165.01	TRUCK MOUNTED IMPACT ATTENUATOR
1205.01	PAVEMENT MARKINGS - LINE TYPES AND 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
1205.08	PAVEMENT MARKINGS - SYMBOLS AND WORD MESSAGES
1205.09	PAVEMENT MARKINGS - PAINTED ISLANDS
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
1267.01	FLEXIBLE DELINEATOR INSTALLATION
1267.02	FLEXIBLE DELINEATOR SPACING

LEGEND







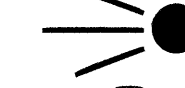




GENERAL

-  DIRECTION OF TRAFFIC FLOW
-  DIRECTION OF PEDESTRIAN TRAFFIC FLOW
-  EXIST. PVMT.
-  NORTH ARROW
-  PROPOSED PVMT.
-  WORK AREA
-  REMOVAL
-  USER DEFINED (IF NEEDED)
-  USER DEFINED (IF NEEDED)




TEMPORARY PAVEMENT MARKING

- PA WHITE EDGELINE (2X)
- PB YELLOW EDGELINE (2X)
- PC 10' WHITE SKIP (2X)
- PD 2' WHITE MINISKIP (2X)
- PI YELLOW DOUBLE CENTERLINE (2X)

TRAFFIC CONTROL DEVICES

-  BARRICADE (TYPE III)
-  CONE
-  DRUM  SKINNY DRUM  TUBULAR MARKER
-  TEMPORARY CRASH CUSHION
-  FLASHING ARROW PANEL (TYPE C)
-  FLAGGER
-  LAW ENFORCEMENT
-  TRUCK MOUNTED IMPACT ATTENUATOR (TMIA)
-  CHANGEABLE MESSAGE SIGN

TEMPORARY SIGNING

-  PORTABLE SIGN
-  STATIONARY SIGN
-  STATIONARY OR PORTABLE SIGN




SIGNALS

-  EXISTING
-  PROPOSED
-  TEMPORARY

PAVEMENT MARKINGS

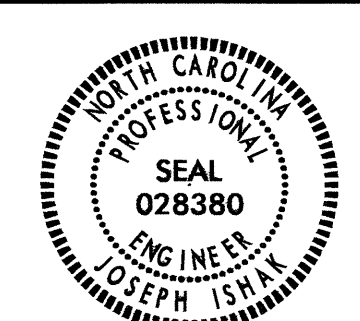
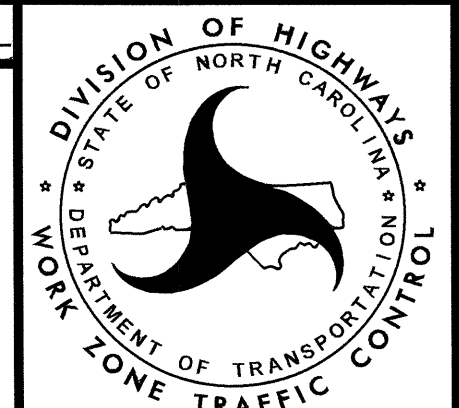
-  EXISTING LINES
-  TEMPORARY LINES

PAVEMENT MARKERS

-  CRYSTAL / CRYSTAL
-  CRYSTAL / RED
-  YELLOW / YELLOW

PAVEMENT MARKING SYMBOLS

-  PAVEMENT MARKING SYMBOLS

APPROVED: _____ DATE: _____		
<h3>ROADWAY STANDARD DRAWINGS & LEGEND</h3>		

MANAGEMENT STRATEGIES

TRAFFIC OPERATIONS

- RESTRICT WORK THAT IMPACTS TRAFFIC DURING PEAK HOURS.
- DETOUR US 401 TRAFFIC (12 HR ICT) TO CONSTRUCT THE -Y1- TIE-IN WHEN TRAFFIC IS AT THE LOWEST VOLUME.
- USE CHANGEABLE MESSAGE SIGNS TO INFORM MOTORIST OF UPCOMING ROAD CLOSURES.

PUBLIC INFORMATION

- NOTIFY PUBLIC OF UPCOMING ROAD CLOSURES AND DETOUR ROUTES:
 - o JONESVILLE RD CLOSURE
 - o ROLESVILLE RD CLOSURE
 - o PULLEYTOWN RD CLOSURE
 - o LOUISBURY RD CLOSURE
- NOTIFY PUBLIC PRIOR TO EACH MAJOR TRAFFIC SHIFT
 - o 1 HOUR TRAFFIC STOP ON EXISTING US 401 TO PREPARE FOR SHIFT TO PROPOSED US 401 BYPASS.
 - o 12 HOUR ROAD CLOSURE OF EXISTING US 401 TO CONSTRUCT -Y1- TIE-IN.

GENERAL NOTES LOCAL 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 UNDESIRE 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.

TIME RESTRICTIONS

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

ROAD NAME	DAY AND TIME RESTRICTIONS
US 401	MONDAY - FRIDAY 7:00 A.M. - 10:00 A.M. AND 4:00 P.M. - 7:00 P.M.

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

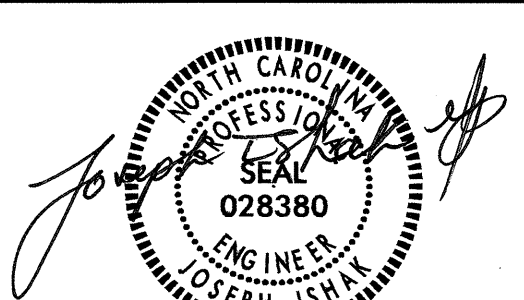
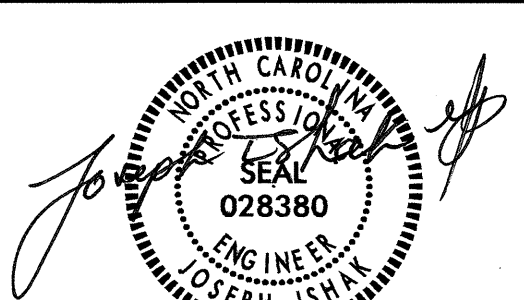
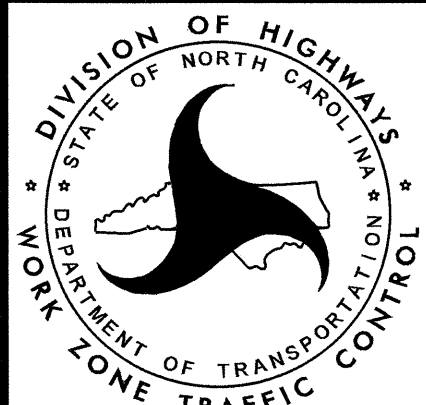
ROAD NAME
US 401

HOLIDAY

1. FOR ANY UNEXPECTED OCCURRENCE THAT CREATES UNUSUALLY HIGH TRAFFIC VOLUMES, AS DIRECTED BY THE ENGINEER.
2. FOR NEW YEAR'S, BETWEEN THE HOURS OF 7:00 A.M. DECEMBER 31st TO 7:00 P.M. JANUARY 2ND. IF NEW YEAR'S DAY IS ON A FRIDAY, SATURDAY, SUNDAY, OR MONDAY THEN UNTIL 7:00 A.M. THE FOLLOWING TUESDAY.
3. FOR EASTER, BETWEEN THE HOURS OF 7:00 A.M. THURSDAY AND 7:00 P.M. MONDAY.
4. FOR MEMORIAL DAY, BETWEEN THE HOURS OF 7:00 A.M. FRIDAY TO 7:00 P.M. TUESDAY.
5. FOR INDEPENDENCE DAY, BETWEEN THE HOURS OF 7:00 A.M. THE DAY BEFORE INDEPENDENCE DAY AND 7:00 P.M. THE DAY AFTER INDEPENDENCE DAY.

IF INDEPENDENCE DAY IS ON A FRIDAY, SATURDAY, SUNDAY OR MONDAY THEN BETWEEN THE HOURS OF 7:00 A.M. THE THURSDAY BEFORE INDEPENDENCE DAY AND 7:00 P.M. THE TUESDAY AFTER INDEPENDENCE DAY.
6. FOR LABOR DAY, BETWEEN THE HOURS OF 7:00 A.M. FRIDAY AND 7:00 P.M. TUESDAY.
7. FOR THANKSGIVING DAY, BETWEEN THE HOURS OF 7:00 P.M. TUESDAY TO 7:00 P.M. MONDAY.

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APPROVED:  DATE: <i>Oct 29, 2010</i>			TRANSPORTATION OPERATIONS PLAN
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8. FOR CHRISTMAS, BETWEEN THE HOURS OF 7:00 A.M. THE FRIDAY BEFORE THE WEEK OF CHRISTMAS DAY AND 7:00 P.M. THE FOLLOWING TUESDAY AFTER THE WEEK OF CHRISTMAS.

C) DO NOT STOP TRAFFIC AS FOLLOWS:

ROAD NAME	DAY AND TIME RESTRICTIONS	DURATION AND OPERATION
US-401	MON-FRI 6:00 AM - 10:00 AM AND	15 MIN (MILLING, WEDGING, TRAFFIC SHIFTS)
	MON-FRI 3:00 PM - 7:00 PM	

D) DO NOT CONDUCT ANY HAULING OPERATIONS AGAINST THE FLOW OF TRAFFIC OF AN OPEN TRAVELWAY UNLESS THE HAULING OPERATION IS PROTECTED BY BARRIER OR GUARDRAIL OR AS 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 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 OR A LANE CLOSURE IS INSTALLED.

G) 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.

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 WITHIN 15 FT ON BOTH SIDES OF AN OPEN TRAVELWAY, RAMP, OR LOOP WITHIN THE SAME LOCATION UNLESS PROTECTED WITH GUARDRAIL OR BARRIER.

J) DO NOT INSTALL MORE THAN 2.5 MILES OF LANE CLOSURE ON US 401 (LOUISBURG RD) MEASURED FROM THE BEGINNING OF THE MERGE TAPER TO THE END OF THE LANE CLOSURE.

K) PROVIDE A MINIMUM OF 1.5 MILES BETWEEN LANE CLOSURES, MEASURED FROM THE END OF ONE CLOSURE TO THE FIRST SIGN OF THE NEXT LANE CLOSURE.

L) PROVIDE TRAFFIC CONTROL FOR APPROPRIATE LANE CLOSURES FOR SURVEYING DONE BY THE DEPARTMENT.

PAVEMENT EDGE DROP OFF REQUIREMENTS

M) 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.

N) 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) AS FOLLOWS IN ADVANCE AND A MINIMUM OF EVERY HALF MILE THROUGHOUT THE UNEVEN AREA.

POSTED SPEED LIMIT	DISTANCE IN ADVANCE
35 OR LESS	200 FT
45 - 50	350 FT
55	500 FT

TRAFFIC PATTERN ALTERATIONS

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

SIGNING

P) 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.

Q) PROVIDE PERMANENT SIGNING.

R) PROVIDE SIGNING AND DEVICES REQUIRED TO CLOSE THE ROAD ACCORDING TO THE ROADWAY STANDARD DRAWINGS AND TRAFFIC CONTROL PLANS.

PROVIDE SIGNING REQUIRED FOR THE OFF-SITE DETOUR ROUTE AS SHOWN IN THE TRAFFIC CONTROL PLANS.

S) COVER OR REMOVE ALL SIGNS AND DEVICES REQUIRED TO CLOSE THE ROAD WHEN ROAD CLOSURE IS NOT IN OPERATION.

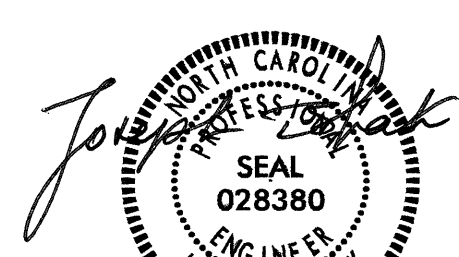

COVER OR REMOVE ALL SIGNS REQUIRED FOR THE OFF-SITE DETOUR WHEN THE DETOUR IS NOT IN OPERATION.

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

U) INSTALL BLACK ON ORANGE "DIP" SIGNS (W8-2) AND/OR "BUMP" SIGNS (W8-1) AS FOLLOWS IN ADVANCE OF THE UNEVEN AREA, OR AS DIRECTED BY THE ENGINEER.

POSTED SPEED LIMIT	DISTANCE IN ADVANCE
35 OR LESS	200 FT
45 - 50	350 FT
55	500 FT

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TRAFFIC CONTROL DEVICES

- V) SPACE CHANNELIZING DEVICES IN WORK AREAS NO GREATER IN FEET 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. WHEN SKINNY DRUMS ARE ALLOWED REFER TO SECTION 1180 OF STANDARD SPECIFICATIONS FOR ROADS AND STRUCTURES OR AS SHOWN IN THE PLANS.
- W) PLACE TYPE III BARRICADES, WITH "ROAD CLOSED" SIGN R11-2 ATTACHED, OF SUFFICIENT LENGTH TO CLOSE ENTIRE ROADWAY.
- X) PLACE ADDITIONAL SETS OF THREE CHANNELIZING DEVICES DRUMS PERPENDICULAR TO THE EDGE OF TRAVELWAY ON 500 FT CENTERS WHEN UNOPENED LANES ARE CLOSED TO TRAFFIC.
- Y) INSTALL TEMPORARY PAVEMENT MARKINGS AND TEMPORARY PAVEMENT MARKERS ON INTERIM LAYERS OF PAVEMENT AS FOLLOWS:

ROAD NAME	MARKING	MARKER
ALL ROADS	PAINT	RAISED
- Z) PLACE ONE APPLICATION OF PAINT FOR TEMPORARY TRAFFIC PATTERNS. PLACE A SECOND APPLICATION OF PAINT SIX (6) MONTHS AFTER THE INITIAL APPLICATION AND EVERY SIX MONTHS THEREAFTER AS DIRECTED BY THE ENGINEER.
- AA) TIE PROPOSED PAVEMENT MARKING LINES TO EXISTING PAVEMENT MARKING LINES.
- BB) REMOVE/REPLACE ANY CONFLICTING/DAMAGED PAVEMENT MARKINGS AND MARKERS BY THE END OF EACH DAY'S OPERATION.
- CC) TRACE THE PROPOSED MONOLITHIC ISLAND LOCATIONS WITH PROPER COLOR PAVEMENT MARKINGS PRIOR TO INSTALLATION. PLACE DRUMS TO DELINEATE ANY PROPOSED MONOLITHIC ISLANDS BEFORE INSTALLATION.

TEMPORARY / FINAL SIGNALS

- DD) NOTIFY THE ENGINEER TWO (2) MONTHS BEFORE A TRAFFIC SIGNAL INSTALLATION BY OTHERS IS REQUIRED.
- EE) SHIFT AND REVISE ALL SIGNAL HEADS AS SHOWN ON THE SIGNAL PLANS.

MISCELLANEOUS

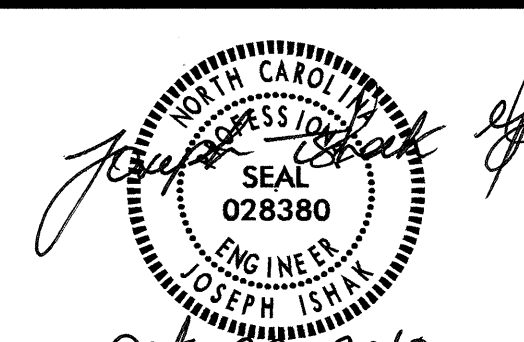
- FF) USE POLICE TO MAINTAIN TRAFFIC THROUGH THE WORK AREA AND/OR INTERSECTIONS AS DIRECTED BY THE ENGINEER.
- GG) IN THE EVENT A DRIVEWAY TIE-IN CANNOT BE MADE IN ONE DAY'S TIME, BRING THE TIE-IN AREA TO AN APPROPRIATE ROADWAY ELEVATION AS DETERMINED BY THE ENGINEER. PLACE BLACK ON ORANGE "LOOSE GRAVEL" SIGNS (W8-7) AND BLACK ON ORANGE "PAVEMENT ENDS" SIGNS (W8-3) AS SHOWN BELOW RESPECTIVELY IN ADVANCE OF THE UNEVEN AREAS. USE DRUMS TO DELINEATE THE EDGE OF ROADWAY ALONG UNPAVED AREAS.

LOCAL NOTES

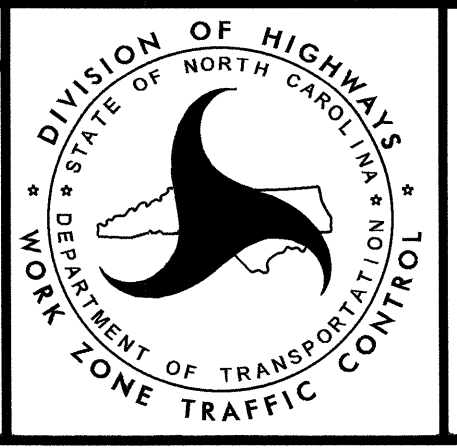
- 1) COORDINATE LOUISBURY ROAD CLOSURE WITH CONTRACTORS FOR THE CITY OF RALEIGH PROJECT ON MITCHELL MILL ROAD AS IT AFFECTS LOUISBURY ROAD.
- 2) -Y2- (JONESVILLE RD) CANNOT BE CLOSED AT THE SAME TIME AS -Y3- (ROLESVILLE RD).
- 3) -Y3- (ROLESVILLE RD) CANNOT BE CLOSED AT THE SAME TIME AS -Y2- (JONESVILLE RD) OR -Y5- (PULLEYTOWN RD).
- 4) -Y5- (PULLEYTOWN RD) CANNOT BE CLOSED AT THE SAME TIME AS -Y3- (ROLESVILLE RD).
- 5) REFER TO THE FINAL PAVEMENT MARKING PLAN FOR ANY TEMPORARY PAVEMENT MARKING NOT IDENTIFIED ON THE TMP SHEETS.
- 6) ALL LANE WIDTHS ARE 12' UNLESS INDICATED ON THE TMP SHEETS.
- 7) COORDINATE PLACEMENT OF WORK ZONE WARNING SIGNS WITH OTHER ONGOING PROJECTS, AS DIRECTED BY THE ENGINEER.

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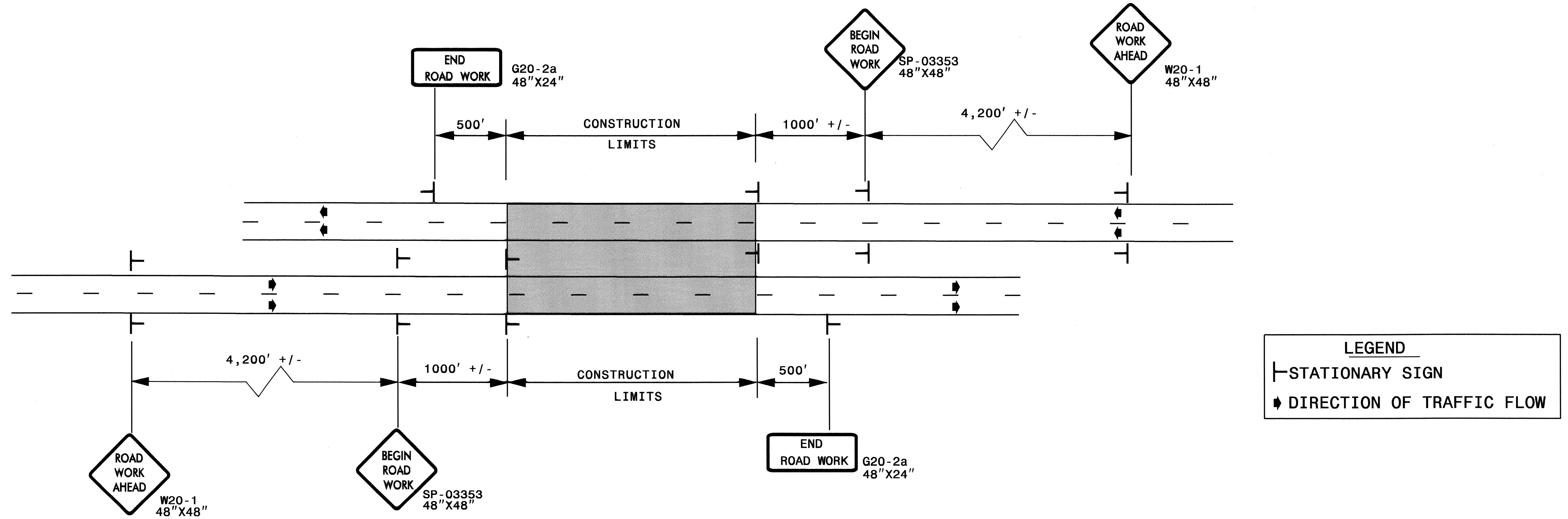


**TRANSPORTATION
OPERATIONS
PLAN**

ADVANCED WORK ZONE WARNING SIGNING FOR FREEWAYS (4 LANES OR GREATER)

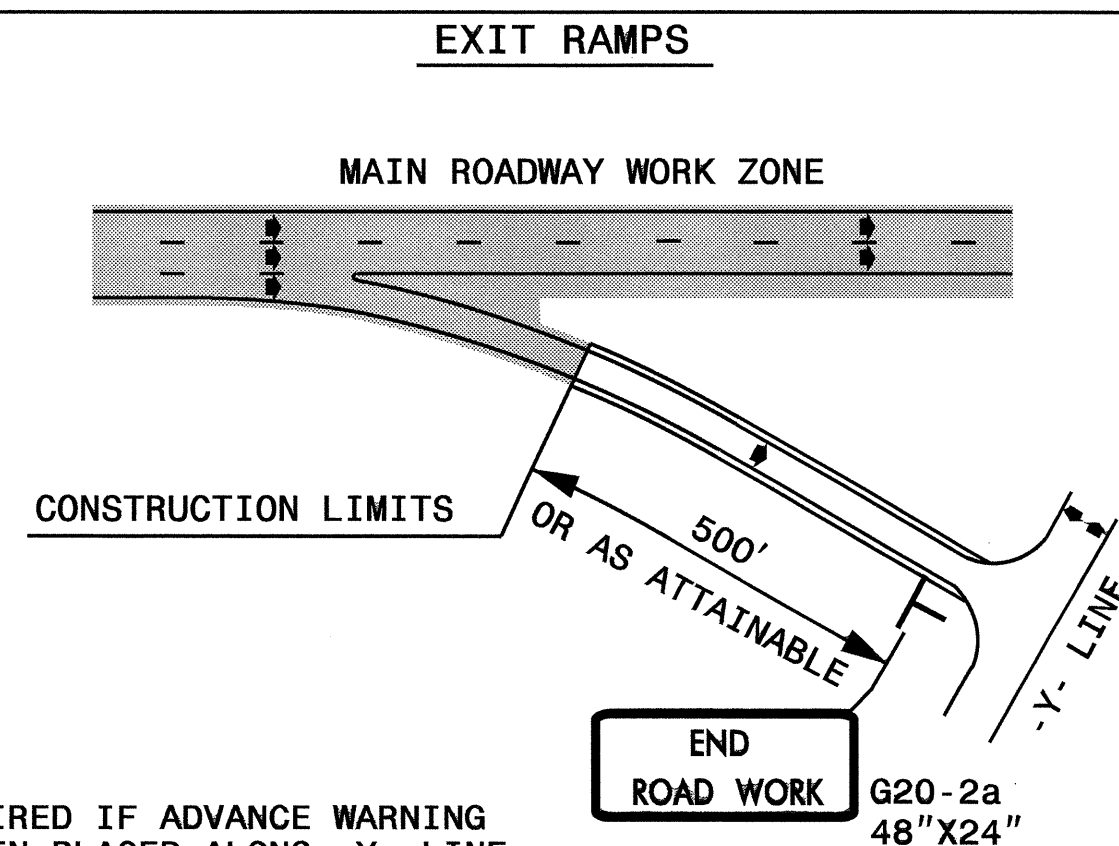
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DETAIL A



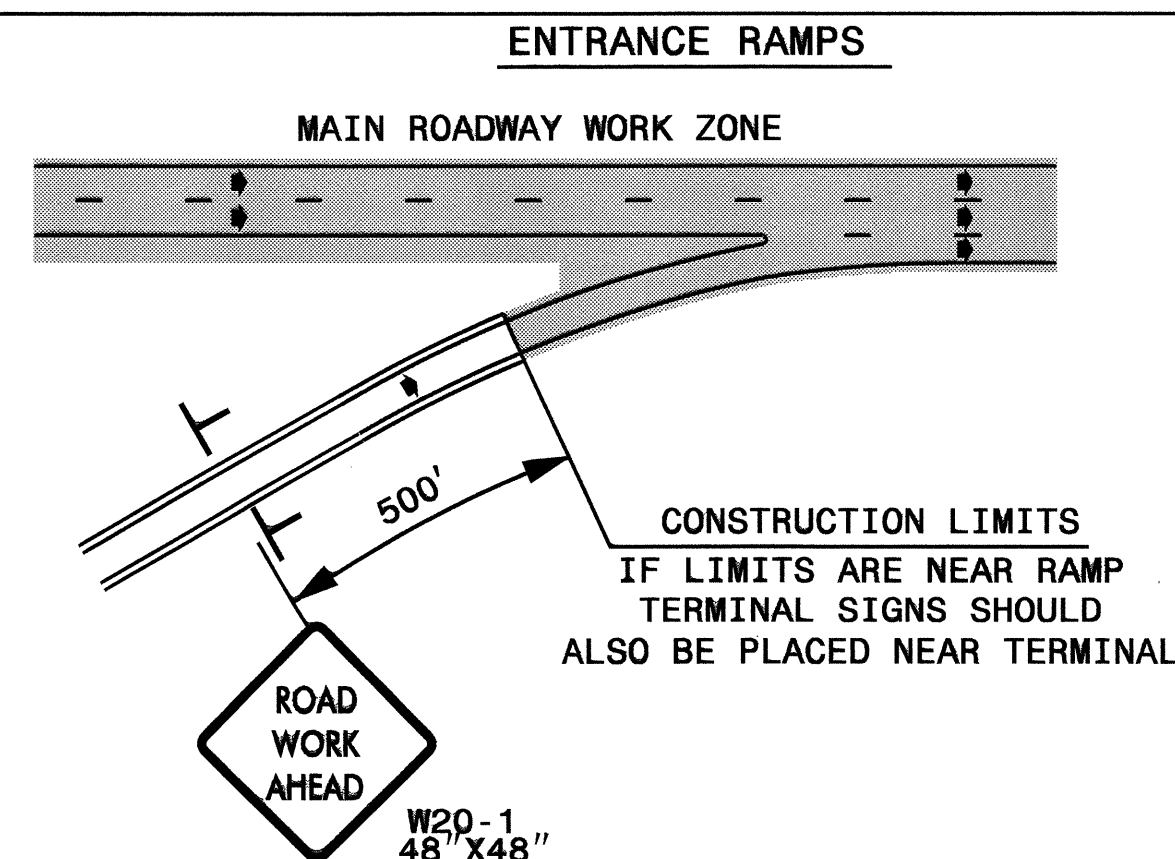
* USE THE "\$250 SPEEDING PENALTY" SIGN, SPEED LIMIT SIGN, AND ORANGE PANEL; ONLY WHEN A "\$250 SPEEDING PENALTY" ORDINANCE HAS BEEN ISSUED BY THE REGIONAL TRAFFIC ENGINEER.

DETAIL B

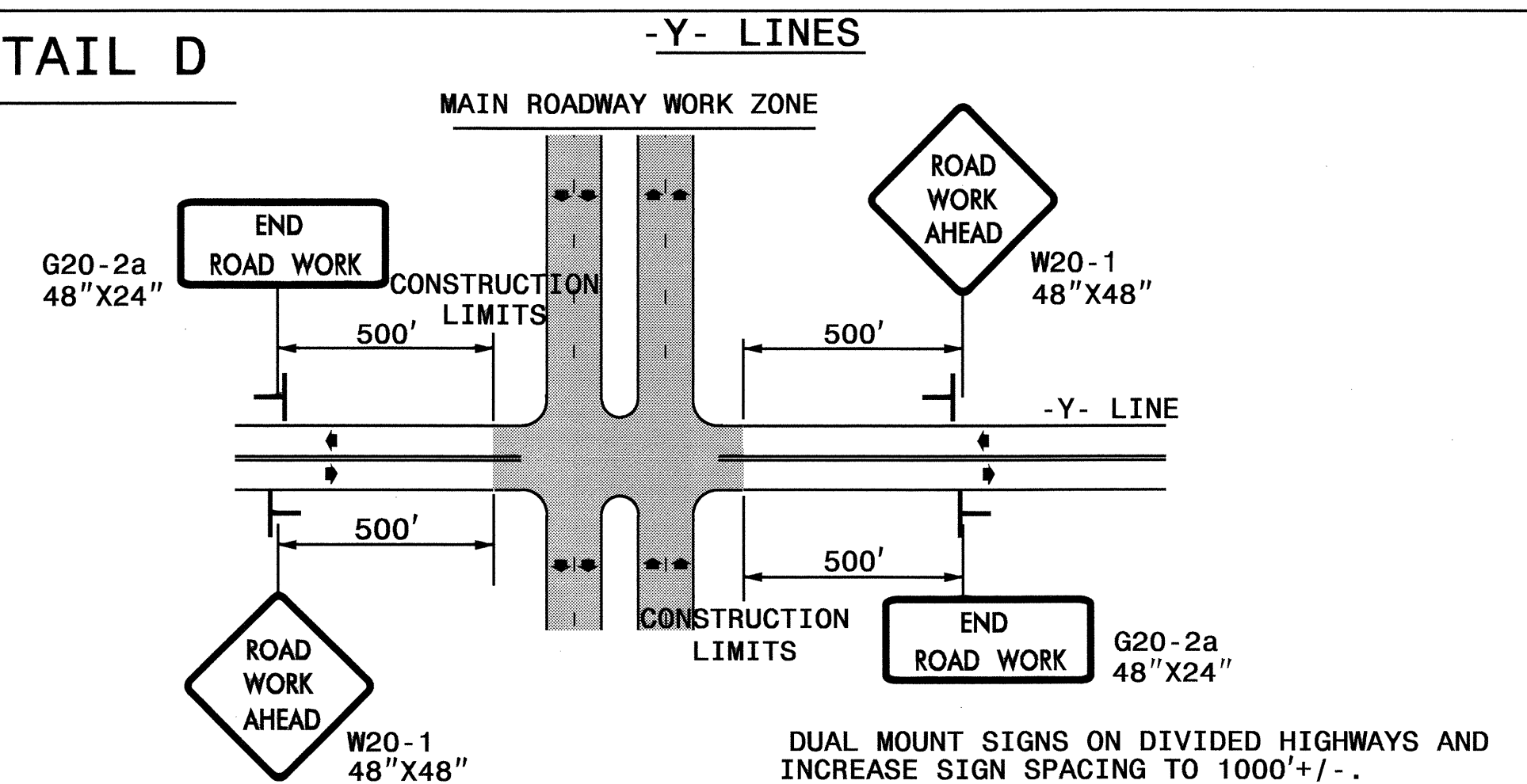


NOTE: SIGN NOT REQUIRED IF ADVANCE WARNING SIGNS HAVE BEEN PLACED ALONG -Y- LINE THAT RAMP INTERSECTS. IF CONSTRUCTION LIMITS ARE AT END OF RAMP, PLACE SIGN AT END OF RAMP.

DETAIL C



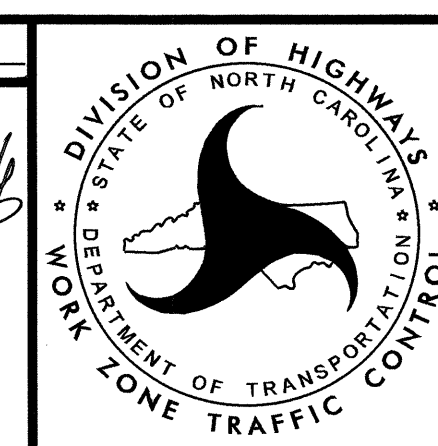
DETAIL D



GENERAL NOTES

- 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.

APPROVED: DATE: Oct 29, 2010



**ADVANCED WORK ZONE
WARNING SIGNS FOR FREEWAYS
(4 LANES OR GREATER)**

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SP 03353

<p>SIGN NUMBER: SP-03353 TYPE: A QUANTITY: 1</p> <p>SIGN WIDTH: 4'-0" HEIGHT: 4'-0" TOTAL AREA: 16.0 Sq.Ft.</p> <p>BORDER TYPE: FLUSH RECESS: 0.59" WIDTH: 0.75" RADII: 1.38"</p> <p>NO. Z BARS: N/A LENGTH: N/A</p> <p>USE NOTES: 2, 4 1. Legend and border shall be direct applied Type VII reflective sheeting. 2. Legend and border shall be direct applied non-reflective sheeting. 3. Shields shall be Type VII reflective sheeting on 0.032" (0.8mm) aluminum and demountable. 4. Background shall be Type VII reflective sheeting. 5. Background shall be Type I reflective sheeting. 6. Center arrow(s) vertically on sign. 7. Bottom panel shall be yellow Type III sheeting. Legend shall be direct applied black non-reflective sheeting. Yellow panel is:</p>	<p>DESIGNER: DORNEY PROJECT ID: ALL PROJECTS</p> <p>CHECKED BY: CHECKED DIV: DIV</p> <p>STD #: W20-1 DATE: Aug 20, 2003</p>	
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LETTER POSITIONS

Letter spacings are to start of next letter

	B	E	G	I	N															Series/Size Text Length
	22.4	5.3	4.6	5.4	2.5	3.8	22.4													C7 21.6
		R	O	A	D															C7 19.6
		23.4	5	5.2	5.6	3.8	23.4													C7 21.2
			W	O	R	K														C7 21.2
		22.6	6.4	5.6	5.2	4	22.6													

Spacing Factor is 1 unless specified otherwise

GENERAL NOTES FOR THE "BEGIN ROAD WORK" SIGN

- SIGN SP-03353 "BEGIN ROAD WORK" ONLY APPLIES TO FULL CONTROL AND PARTIAL CONTROL OF ACCESS ROADWAYS
- WHEN USED, INSTALL SIGN SP-03353 "BEGIN ROAD WORK" ACCORDING TO DETAIL A ON SHEET TMP-2A.

<p>APPROVED: _____ DATE: _____</p> <p style="text-align: center;">OCT 27 2010</p>		<p>DETAIL DRAWING FOR ADVANCED WORK ZONE WARNING SIGN DESIGNS</p>
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sbjennings AT WZTC2473

PROJECT INFORMATION

THIS PROJECT IS SUBDIVIDED INTO FOUR AREAS. CONSTRUCTION IN EACH AREA MAY PROCEED INDEPENDENTLY AND SIMULTANEOUSLY WITH CONSTRUCTION IN OTHER AREAS UNLESS OTHERWISE NOTED IN THE PLAN. THEREFORE, PHASES IN ONE AREA RELATE SOLELY TO THAT AREA AND DO NOT AFFECT PHASING IN OTHER AREAS.

AREA 1 INCLUDES THE FOLLOWING: - -L- PROPOSED US 401 (ROLESVILLE BYPASS)
 FROM -L- STA. 16+31+/- TO -L- STA. 49+00+/-
 FROM -L- STA. 67+00+/- TO -L- STA. 154+00+/-
 FROM -L- STA. 172+00+/- TO -L- STA. 223+00+/-
 FROM -L- STA. 240+50+/- TO -L- STA. 323+85+/-

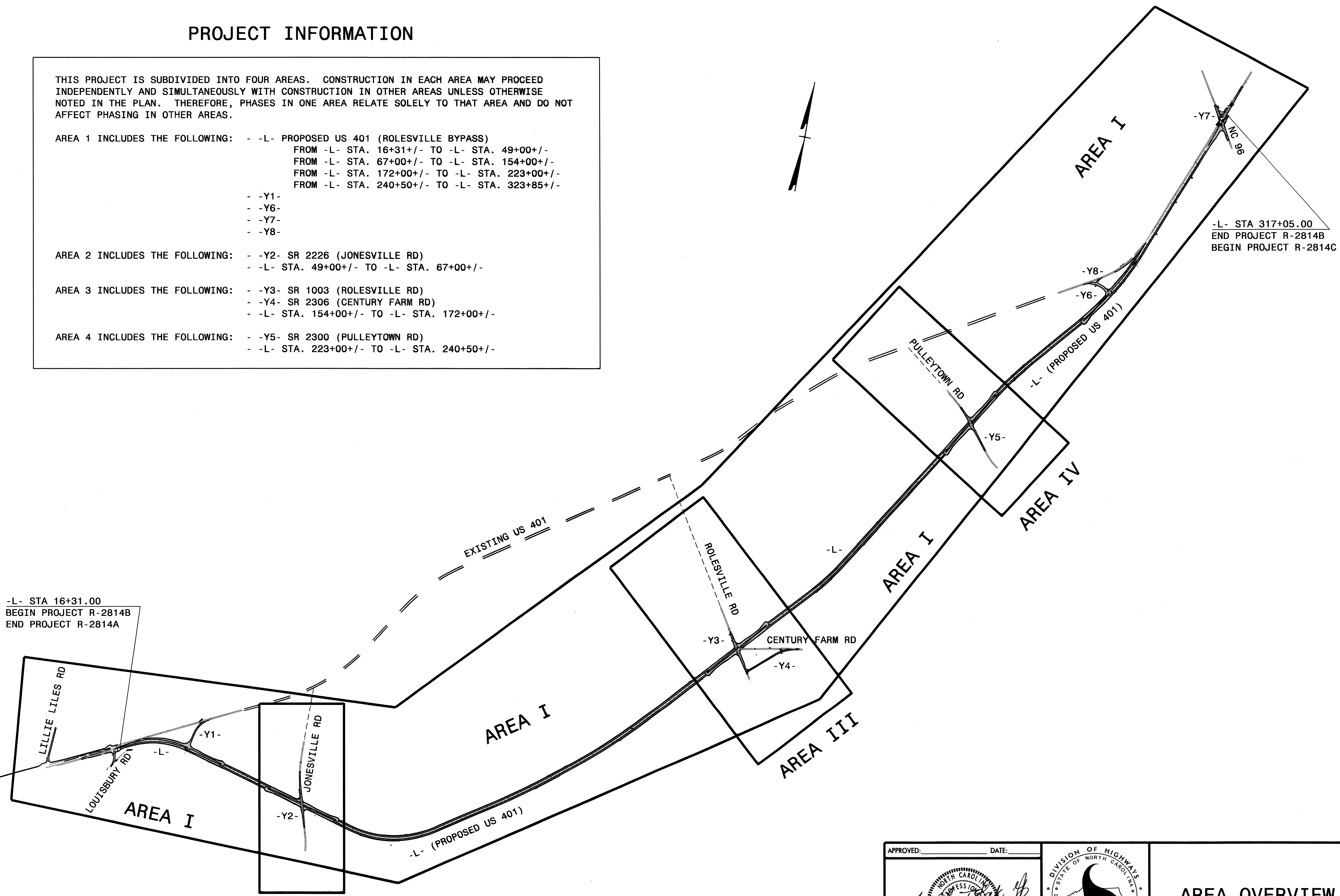
- -Y1-
- -Y6-
- -Y7-
- -Y8-

AREA 2 INCLUDES THE FOLLOWING: - -Y2- SR 2226 (JONESVILLE RD)
 - -L- STA. 49+00+/- TO -L- STA. 67+00+/-

AREA 3 INCLUDES THE FOLLOWING: - -Y3- SR 1003 (ROLESVILLE RD)
 - -Y4- SR 2306 (CENTURY FARM RD)
 - -L- STA. 154+00+/- TO -L- STA. 172+00+/-

AREA 4 INCLUDES THE FOLLOWING: - -Y5- SR 2300 (PULLEYTOWN RD)
 - -L- STA. 223+00+/- TO -L- STA. 240+50+/-

-L- STA 16+31.00
 BEGIN PROJECT R-2814B
 END PROJECT R-2814A



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 sbjennings

APPROVED:	DATE:		<h2>AREA OVERVIEW</h2>

Oct 29, 2010

AREA I - PHASING

- 1) MAINTAIN ACCESS TO ALL RESIDENCES AND BUSINESSES AT ALL TIMES WITHIN THE PROJECT LIMITS, UNLESS OTHERWISE DIRECTED BY THE ENGINEER.
- 2) THE TRAFFIC CONTROL PLAN IS PHASED INTO AREAS. WORK MAY BE PERFORMED IN MORE THAN ONE AREA SIMULTANEOUSLY BUT SHALL PROGRESS IN EACH AREA THROUGH THE PHASE AND STEP REQUIREMENTS.
- 3) IN THE PHASING SHOWN BELOW, "FLAGGER" IS DEFINED AS RSD 1101.03, SHEET 8 OF 9 AND "LANE CLOSURE" REFERS TO RSD 1101.02, SHEET 3 OF 9.
- 4) COMPLETE AREA II, PHASE II; AREA III, PHASE II; AREA IV, PHASE II BEFORE BEGINNING AREA I, PHASE I, STEP 11.

PHASE I

- STEP 1**
- INSTALL ADVANCED WORK ZONE WARNING SIGNS ON EXISTING US 401 AS REQUIRED IN PROJECT NOTES. (SEE SHEETS TMP-1B THROUGH TMP-1D AND TMP-2A)
 - INSTALL RIGHT OF WAY FENCE ON PARCEL 022.
- STEP 2**
- AWAY FROM TRAFFIC, BEGIN CONSTRUCTION OF THE FOLLOWING:
- INSTALL THE FOLLOWING PIPES USING TRENCHLESS INSTALLATION: (SEE ROADWAY PLANS)
 - 36" RCP AT -L- STA. 314+40 +/-
 - 36" RCP AT -L- STA. 319+40 +/-
 - BEGIN ALL DRAINAGE WORK REQUIRED IN AREA I AS DIRECTED BY THE ENGINEER: (SEE ROADWAY PLANS).
- AWAY FROM TRAFFIC AND USING FLAGGERS, BEGIN CONSTRUCTION OF THE FOLLOWING, UP TO BUT NOT INCLUDING FINAL LAYER OF SURFACE COURSE: (SEE SHEETS TMP-3, TMP-5, TMP-6 AND TMP-7)
- FROM -L- STA. 16+31+/- TO -L- STA. 49+00+/-
 - FROM -L- STA. 67+00 +/- TO -L- STA. 154+00+/-
 - FROM -L- STA. 172+00+/- TO -L- STA. 223+00+/-
 - FROM -L- STA. 240+50+/- TO -L- STA. 282+00+/-
 - FROM -L- NB STA. 282+00+/- TO -L- NB STA. 317+05+/- (INCLUDING INSTALLATION AND ACTIVATION OF TEMPORARY SIGNAL #1)
 - -Y1- (EXCLUDING TIE-INS)
 - -Y6- (EXCLUDING TIE-INS)
 - -Y8- (EXCLUDING TIE-INS)
 - TEMPORARY CROSSOVER -DET14AY8- FROM R-2814A SB TO -L- STA. 14+11+/- (EXCLUDING TIE-INS)
 - TEMPORARY CROSSOVER -DETY1- FROM -L- 28+76+/- TO -Y1- STA. 13+65+/-
 - TEMPORARY CROSSOVER -DET4LD- FROM -L- 278+12+/- TO -L- STA. 282+25+/-
- USING FLAGGERS, BEGIN WIDENING AND WEDGING, UP TO BUT NOT INCLUDING FINAL SURFACE COURSE, AT FOLLOWING LOCATIONS. PLACE TEMPORARY PAVEMENT MARKINGS ON WEDGED AREAS IN EXISTING PATTERN BY END OF EACH WORK DAY.
- -Y7-
 - -L- SB STA. 309+50+/- TO END OF PROJECT.
- AWAY FROM TRAFFIC AND USING FLAGGERS BEGIN TEMPORARY CROSSOVER -DETY7- FROM -L- 307+50+/- TO -L- STA. 311+05+/- UP TO THE EDGE AND ELEVATION OF WEDGED PAVEMENT IN PREPARATION FOR PHASE II TRAFFIC SHIFT. (SEE TMP-7)
 - MAY BEGIN SIGNAL INSTALLATION AT -Y1-, -L- STA. 264+00+/- AND -Y6-.
- STEP 3**
- AWAY FROM TRAFFIC AND USING FLAGGERS, COMPLETE CONSTRUCTION OF THE FOLLOWING UP TO BUT NOT INCLUDING THE FINAL LAYER OF SURFACE COURSE:
- FROM -L- NB STA. 16+31+/- TO -L- STA. 32+00+/-
 - FROM -L- SB STA. 29+50+/- TO -L- STA. 32+00+/-
 - -Y1- (EXCLUDING TIE-INS)
 - TEMPORARY CROSSOVER -DET14AY8- FROM R-2814A SB TO -L- STA. 14+11+/- (EXCLUDING TIE-INS)
 - TEMPORARY CROSSOVER -DETY1- FROM -L- 28+76+/- TO -Y1- STA. 13+65+/-
 - INSTALL TEMPORARY SIGNAL #2 AT -Y7-.
- STEP 4**
- INSTALL AND COVER DETOUR SIGNS FOR US 401. (SEE SHEET TMP-8)
 - INSTALL AND COVER DETOUR SIGNS AND ROAD CLOSURE SIGNS FOR LOUISBURY RD. (SEE SHEET TMP-9)

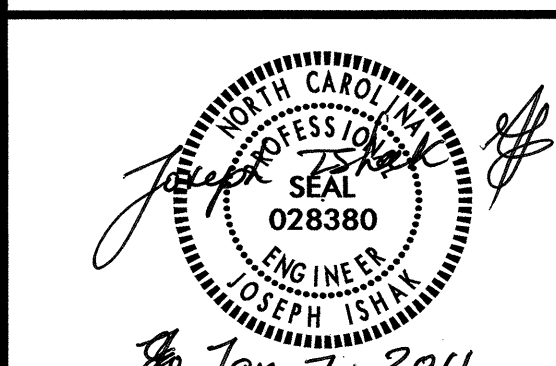
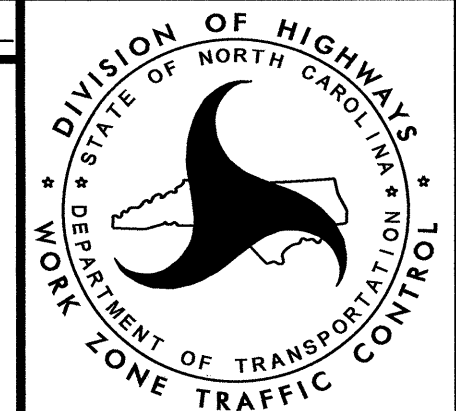
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COMPLETE THE WORK REQUIRED IN STEPS 5 THROUGH 12, BETWEEN 10:00 PM SATURDAY AND 6:00 AM ON THE SECOND FOLLOWING WEDNESDAY. SEE INTERMEDIATE CONTRACT TIME AND LIQUIDATED DAMAGES.

COMPLETE THE WORK REQUIRED IN STEPS 5 THROUGH 7 IN A CONTINUOUS MANNER BETWEEN 10:00 PM SATURDAY AND 10:00 AM THE FOLLOWING SUNDAY. SEE INTERMEDIATE CONTRACT TIME AND LIQUIDATED DAMAGES.

- STEP 5**
- INSTALL ROAD CLOSURE SIGNS, UNCOVER DETOUR SIGNS TO CLOSE EXISTING US 401 AND DETOUR TRAFFIC OFFSITE AS SHOWN ON SHEET TMP-8.
 - UNCOVER DETOUR SIGNS, ROAD CLOSURE SIGNS TO CLOSE LOUISBURY RD. AND DETOUR TRAFFIC OFFSITE AS SHOWN ON SHEET TMP-9.
- STEP 6**
- USING FLAGGERS TO MAINTAIN LOCAL TRAFFIC, PERFORM THE FOLLOWING WORK:
- TIE-IN -Y1- TO EXISTING US 401, PLACE TEMPORARY PAVEMENT MARKING IN FINAL PATTERN AND REMOVE CONFLICTING MARKING. (SEE FINAL PAVEMENT MARKING PLANS)
 - TIE-IN CROSSOVER -DET14AY8- TO EXISTING US 401, PLACE TEMPORARY PAVEMENT MARKING AND REMOVE CONFLICTING, EXISTING MARKINGS. (SEE SHEETS TMP-10 AND TMP-11)
 - REMOVE ALL EXISTING PAVEMENT MARKINGS ON LOUISBURY RD THAT CONFLICT WITH TEMPORARY PATTERN.
- STEP 7**
- OPEN EXISTING US 401 TO TEMPORARY TRAFFIC PATTERN UTILIZING CROSSOVER -DET14AY8-, -L- NB STA. 16+31+/- TO STA. 28+78+/-, CROSSOVER -DETY1- AND -Y1- AS SHOWN ON SHEETS TMP-11 AND TMP-12.
- STEP 8**
- USING FLAGGERS TO MAINTAIN LOCAL TRAFFIC, TIE-IN -L- SB STA. 16+31+/- TO STA. 21+61+/-, COMPLETE CONSTRUCTION OF SB -L- FROM STA. 21+61+/- TO STA. 29+50+/-, UP TO BUT NOT INCLUDING THE FINAL LAYER OF SURFACE COURSE AND PLACE TEMPORARY PAVEMENT MARKINGS IN FINAL PATTERN AS MUCH AS POSSIBLE. (SEE SHEETS TMP-11 THROUGH TMP-14, AND FINAL PAVEMENT MARKING PLANS)
- STEP 9**
- USING FLAGGERS SHIFT SB TRAFFIC TO TEMPORARY PATTERN ON -L- SB STA. 16+31+/- TO -Y1- AS SHOWN ON SHEETS TMP-13 AND TMP-14.

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PHASE I CONT.

STEP 10

- AWAY FROM TRAFFIC AND USING FLAGGERS, COMPLETE CONSTRUCTION OF THE FOLLOWING, UP TO BUT NOT INCLUDING FINAL LAYER OF SURFACE COURSE. PLACE TEMPORARY PAVEMENT MARKINGS IN FINAL PATTERN AS MUCH AS POSSIBLE: (SEE SHEETS TMP-3, TMP-5 THROUGH TMP-7 AND FINAL PAVEMENT MARKING PLANS)
- FROM -L- STA. 32+00+/- TO -L- STA. 49+00+/-
 - FROM -L- STA. 67+00 +/- TO -L- STA. 154+00+/-
 - FROM -L- STA. 172+00+/- TO -L- STA. 223+00+/-
 - FROM -L- STA. 240+50+/- TO -L- STA. 282+00+/-
 - FROM -L- NB STA. 282+00+/- TO -L- NB STA. 309+75+/-
 - -Y6- (EXCLUDING TIE-INS)
 - -Y8- (EXCLUDING TIE-INS)
 - TEMPORARY CROSSOVER -DET4LD- FROM -L- 278+12+/- TO -L- STA. 282+00+/-
 - TEMPORARY CROSSOVER -DETY7- FROM -L- 307+50+/- TO -L- STA. 311+54+/- (EXCLUDING TIE-INS)
- USING FLAGGERS COMPLETE WIDENING AND WEDGING OF -L- SB STA. 309+50+/- TO END OF PROJECT. PLACE TEMPORARY PAVEMENT MARKINGS ON WEDGED AREAS IN EXISTING PATTERN. (SEE TMP-7)
- COMPLETE AREA II, PHASE II; AREA III, PHASE II; AREA IV, PHASE II.
- INSTALL AND COVER DETOUR SIGNS AND ROAD CLOSURE SIGNS TO CLOSE US 401 AT -Y6- AS SHOWN ON SHEET TMP-16 IN PREPARATION FOR PHASE I, STEP 12.
- COMPLETE INSTALLATION OF FINAL SIGNALS AT -Y1-, -L- STA. 264+00+/-, -Y6- AND COVER SIGNAL HEADS.

NOTE: WORK TO COMPLETE STEP 11 THROUGH STEP 12 IN A CONTINUOUS MANNER TO PLACE TRAFFIC INTO THE PHASE II TRAFFIC PATTERN AS FOLLOWS: (SEE SHEETS TMP-15 THROUGH TMP-22)

STEP 11

- USING FLAGGERS, BEGIN TIE-IN WORK NEEDED FOR PHASE II TRAFFIC PATTERN.
- USING FLAGGERS, RSD 1101.02 SHEET 1 OF 9, CONSTRUCT TEMPORARY TIE-IN FOR -Y8- TO EXISTING US 401 IN PREPARATION FOR PHASE II TRAFFIC PATTERN. REPLACE BARRICADES TO CLOSE -Y8-. (SEE SHEET TMP-6)
- USING FLAGGERS, PLACE TEMPORARY PAVEMENT MARKING IN FINAL PATTERN, AS MUCH AS POSSIBLE, FROM US 401 AT LILLIE LILES ROAD TO LOUISBURY ROAD, FOR PHASE II TRAFFIC PATTERN.

STEP 12

1. USING POLICE, RSD 1101.3, SHEET 8 OF 9, STOP TRAFFIC. (SEE SHEET TMP-15)
2. COMPLETE TIE-INS, INCLUDING TEMPORARY PAVEMENT MARKING FOR PHASE II TRAFFIC PATTERN AND REMOVE CONFLICTING PAVEMENT MARKING. (SEE SHEETS TMP-17 AND TMP-18)
3. UNCOVER DETOUR SIGNS INSTALLED IN PHASE I, STEP 8 FOR -Y6-. (SEE SHEET TMP-16)
4. SIMULTANEOUSLY UNCOVER AND ACTIVATE SIGNALS AT -Y1-, -Y3-, -L- STA. 264+00+/-, -Y6- IN FINAL PATTERN, ACTIVATE TEMPORARY SIGNAL #2 AT -Y7-, REMOVE TRAFFIC CONTROL DEVICES AT -Y2-, -Y3-, -Y5- AND -Y8-; OPEN -L-, -Y2-, -Y3-, -Y5-, -Y6- AND -Y8- TO PHASE II TRAFFIC PATTERN.

PHASE II

STEP 1

- USING FLAGGERS AND LANE CLOSURES, PERFORM THE FOLLOWING: (SEE SHEETS TMP-17, TMP-18 AND FINAL PAVEMENT MARKING PLANS)
 - REMOVE CROSSOVERS -DET14AY8- AND -DETY1- FROM MEDIAN AND PLACE TEMPORARY PAVEMENT MARKINGS IN FINAL PATTERN.
 - CONSTRUCT ISLAND AT -Y1- AND PLACE TEMPORARY PAVEMENT MARKINGS IN FINAL PATTERN ON -Y1-.
 - PLACE FINAL PAVEMENT MARKINGS ON LOUISBURY ROAD AT -L-, REMOVE DETOUR AND ROAD CLOSURES SIGNS AND OPEN TO TRAFFIC.
- USING FLAGGERS, RSD 1101.02 SHEET 1 OF 9, COMPLETE TIE-IN OF -Y8- UP TO BUT NOT INCLUDING THE FINAL SURFACE COURSE AND PLACE TEMPORARY PAVEMENT MARKING IN FINAL PATTERN. (SEE SHEET TMP-20)
- USING FLAGGERS, MAY BEGIN INSTALLATION OF TEMPORARY SIGNAL #3.

STEP 2

- AWAY FROM TRAFFIC, INSTALL (2) 36" PIPES AT -Y6- STA. 15+12 +/-, CONSTRUCT PROPOSED -Y6- TIE-IN AND PLACE TEMPORARY PAVEMENT MARKINGS IN FINAL PATTERN AS SHOWN ON TMP-20 AND ROADWAY PLANS. THEN OPEN -Y6- TO TRAFFIC AND REMOVE ROAD CLOSURE AND DETOUR SIGNING.
- AWAY FROM TRAFFIC, CONSTRUCT -L- SB FROM STA. 282+00 TO STA. 309+50 UP TO BUT NOT INCLUDING THE FINAL LAYER OF SURFACE COURSE AS SHOWN ON SHEETS TMP-19 TO TMP-22. PLACE TEMPORARY PAVEMENT MARKINGS IN FINAL PATTERN AS SHOWN ON FINAL PAVEMENT MARKING PLANS.
- AWAY FROM TRAFFIC AND USING FLAGGERS COMPLETE CONSTRUCTION OF -L- NB STA. 309+75+/- TO STA. 323+85+/- UP TO BUT NOT INCLUDING THE FINAL LAYER OF SURFACE COURSE AND PLACE FINAL PAVEMENT MARKING, AS MUCH AS POSSIBLE, AS SHOWN ON SHEET TMP-22 AND FINAL PAVEMENT MARKING PLANS.
- USING FLAGGERS, COMPLETE CONSTRUCTION OF -Y7- WIDENING AND WEDGING UP TO BUT NOT INCLUDING THE FINAL SURFACE COURSE. PLACE TEMPORARY PAVEMENT MARKINGS ON WEDGED AREAS IN EXISTING PATTERN AT THE END OF EACH WORK DAY. (SEE TMP-22)
- USING FLAGGERS, COMPLETE CONSTRUCTION OF -L- SB STA. 309+50+/-, WIDENING AND WEDGING, TO END OF PROJECT UP TO BUT NOT INCLUDING FINAL LAYER OF SURFACE COURSE. PLACE TEMPORARY PAVEMENT MARKINGS ON WEDGED AREAS IN EXISTING PATTERN AT THE END OF EACH WORK DAY. (SEE SHEET TMP-22)
- USING FLAGGERS, COMPLETE INSTALLATION AND COVER TEMPORARY SIGNAL #3.

STEP 3

- USING FLAGGERS, TIE-IN NB LANES AT -L- STA. 307+50+/- TO PROPOSED NB LANES AND PLACE TEMPORARY PAVEMENT MARKING AS SHOWN ON TMP-23. SIMULTANEOUSLY UNCOVER AND ACTIVATE TEMPORARY SIGNAL #3 AT -Y7- TO TEMPORARY PATTERN, SHIFT NB TRAFFIC OFF CROSSOVER -DETY7- TO NB PROPOSED AND OPEN -Y7- RIGHT TURN LANE TO NB -L- AS SHOWN ON TMP-23.

STEP 4

- AWAY FROM TRAFFIC AND USING FLAGGERS PERFORM THE FOLLOWING: (SEE TMP-23)
- CONSTRUCT CONCRETE ISLAND -L- STA 313+90+/-.
 - COMPLETE -L- SB STA. 311+54+/- TO -Y7- UP TO BUT NOT INCLUDING THE FINAL LAYER OF SURFACE COURSE. PLACE TEMPORARY PAVEMENT MARKING IN FINAL PATTERN IN PREPARATION FOR SHIFT TO FINAL PATTERN IN STEP 5. (SEE SHEET TMP-23 AND FINAL PAVEMENT MARKING PLANS)
 - USING FLAGGERS, INSTALL AND COVER, AS NECESSARY, FINAL SIGNAL AT -Y7-.

STEP 5

- USING FLAGGERS, TIE-IN TEMPORARY SB -DETY7- AND -DET4LD- TO EDGE AND ELEVATION OF PAVEMENT AND PLACE TEMPORARY PAVEMENT MARKINGS IN FINAL PATTERN. SIMULTANEOUSLY UNCOVER AND ACTIVATE FINAL SIGNAL AT -Y7- AND SHIFT SB TRAFFIC OFF DETOURS TO THE FINAL PATTERN.

STEP 6

- USING FLAGGERS AND LANE CLOSURES, COMPLETE THE FOLLOWING UP TO BUT NOT INCLUDING THE FINAL LAYER OF SURFACE COURSE. PLACE TEMPORARY PAVEMENT MARKINGS IN FINAL PATTERN.:
- REMOVAL OF TEMPORARY CROSSOVERS -DET4LD- AND -DETY7-.
 - ANY REMAINING WORK.

PHASE III

STEP 1

- USING RSD 1101.02, SHEET 1 OF 9, AND SHEET 3 OF 9, PLACE FINAL LAYER OF SURFACE COURSE AND INSTALL FINAL PAVEMENT MARKING AND FINAL MARKERS BEGINNING FROM US 401 NB NEAR LILLIE LILES ROAD AND -DET14AY8- STA. 10+00 (R-2814A) TO END OF STATE PROJECT R-2814B (SEE SHEETS TMP-10, TMP-11 AND FINAL PAVEMENT MARKING PLAN)

STEP 2

- REMOVE ALL WORK ZONE TRAFFIC CONTROL DEVICES AND SIGNS.

248 HR. ICT

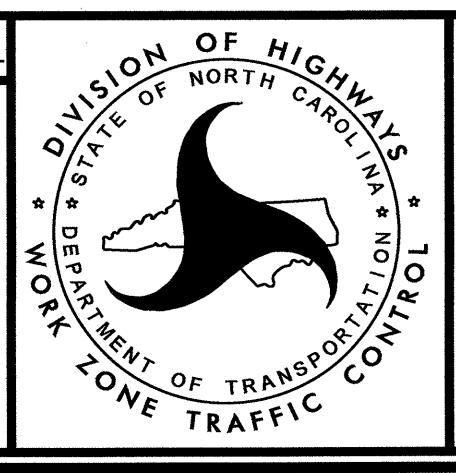
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COMPLETE STEP 12 WITHIN 1 HOUR, ANY DAY BETWEEN 12:00 A.M. AND 5:00 A.M. SEE INTERMEDIATE CONTRACT TIME AND LIQUIDATED DAMAGES.

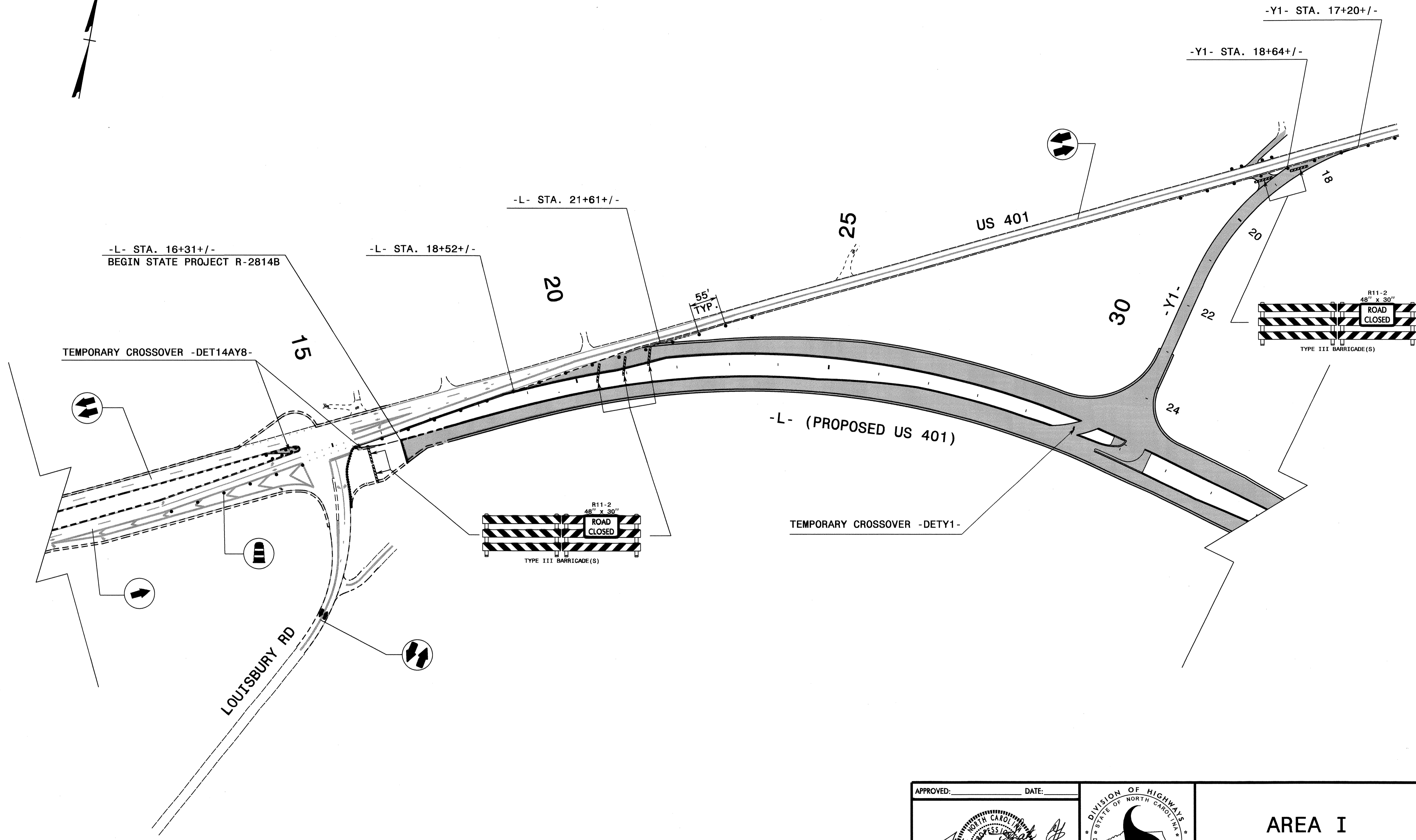
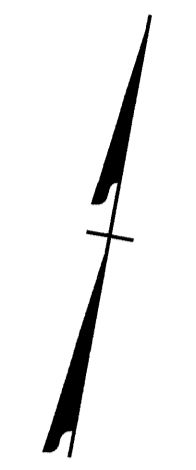
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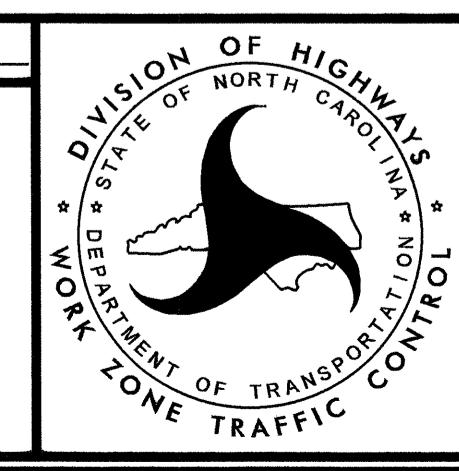
**AREA I
TEMPORARY TRAFFIC
CONTROL PHASING**



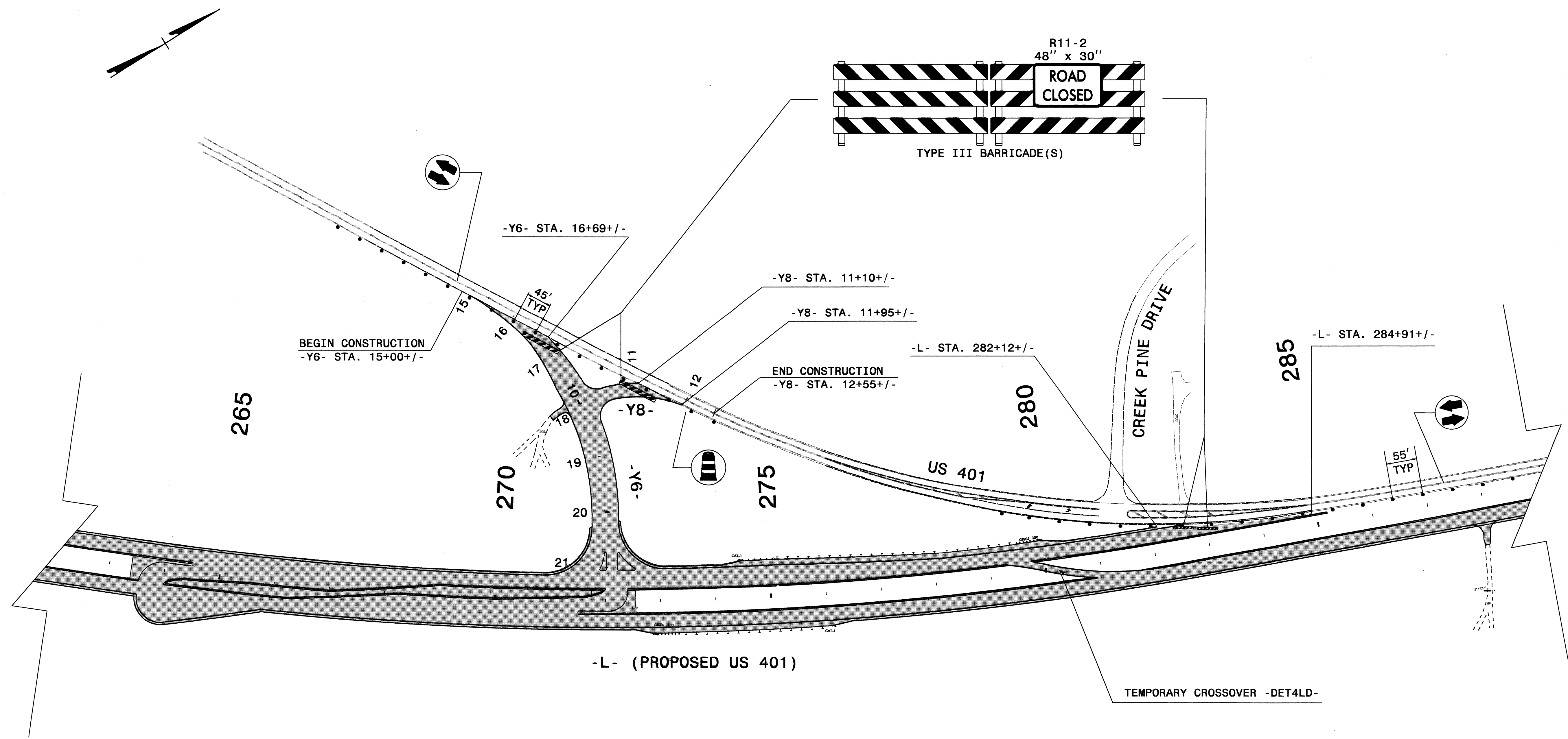
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Oct 29, 2010



AREA I
 PHASE I

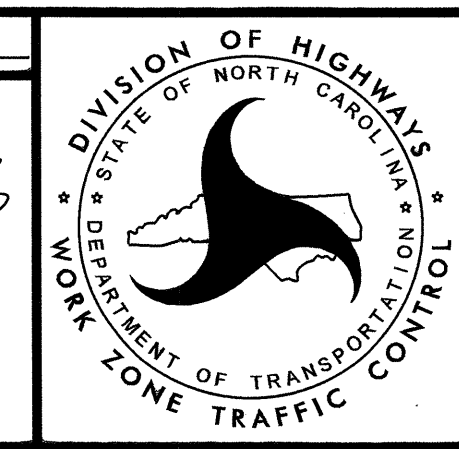


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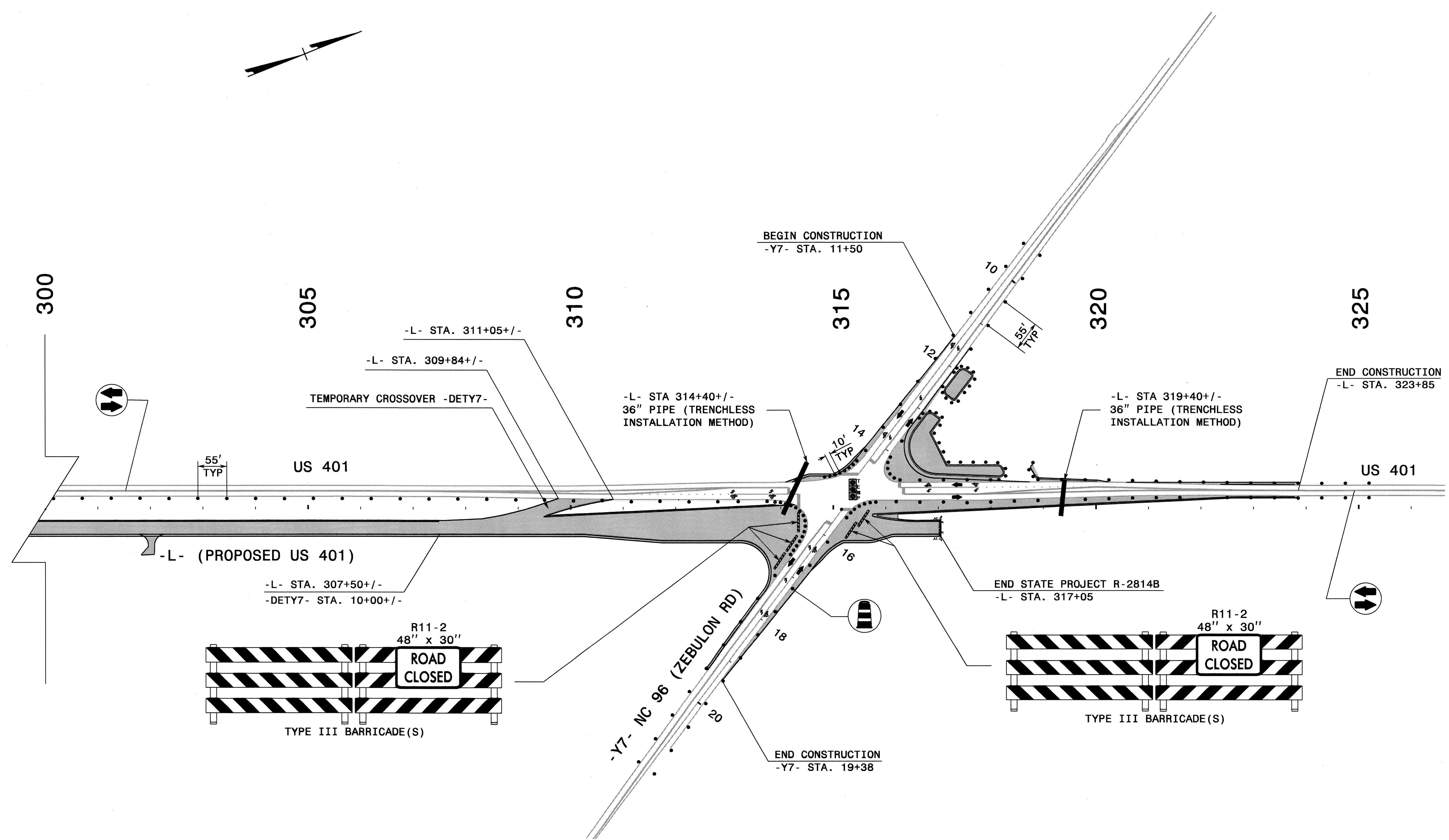
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Joseph Ishak
 SEAL
 028380
 ENGINEER
 JOSEPH ISHAK

Oct 29, 2010



**AREA I
 PHASE I**



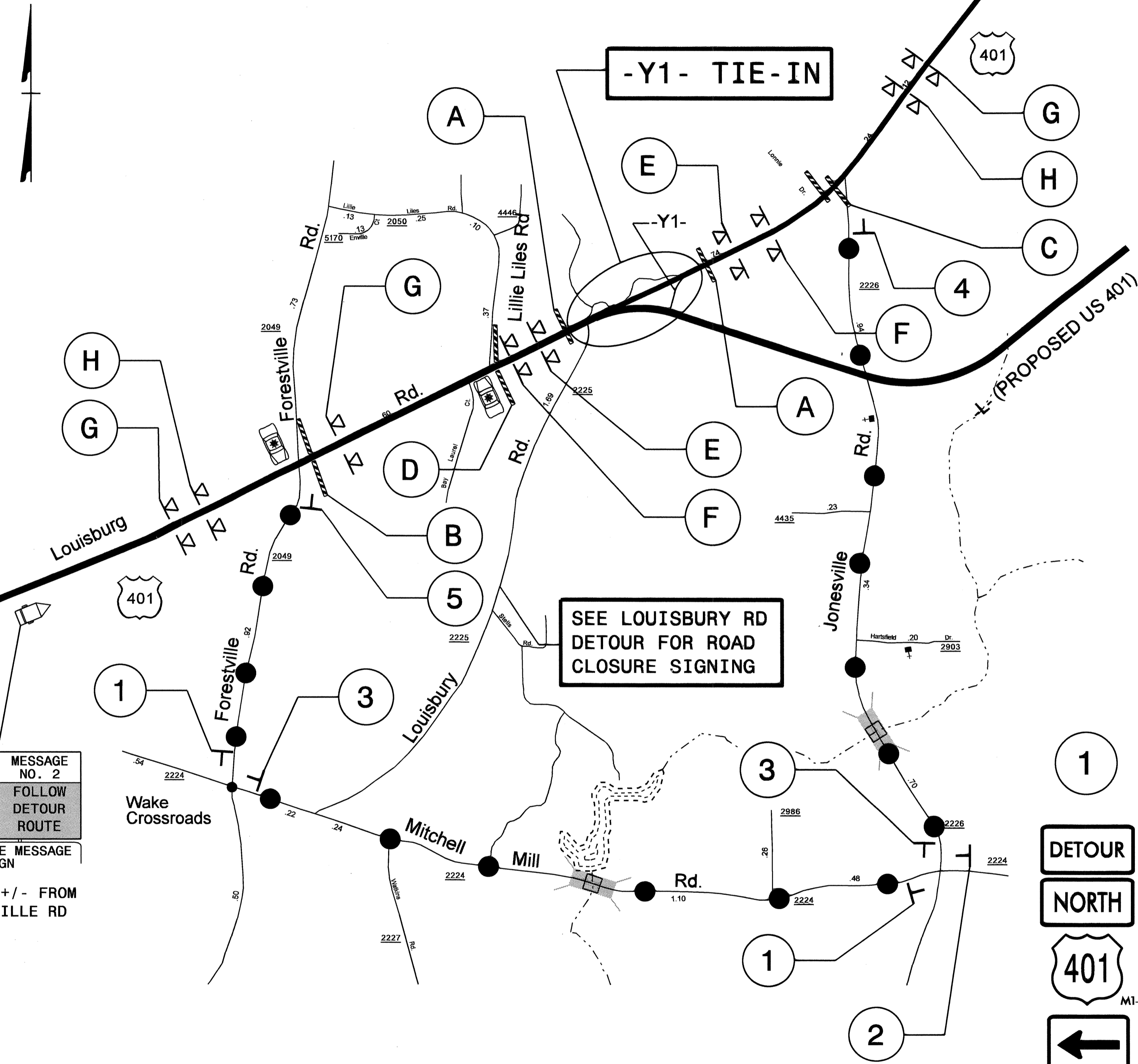
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US 401 DETOUR AT -Y1- (12 HR.)

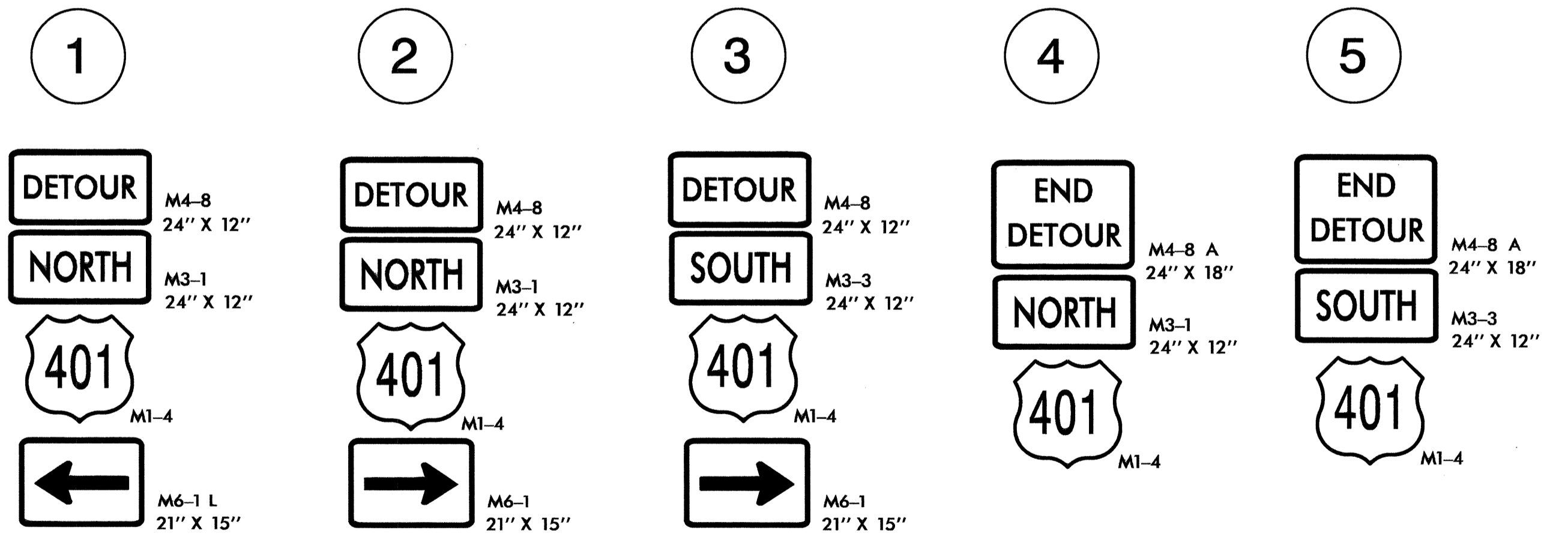
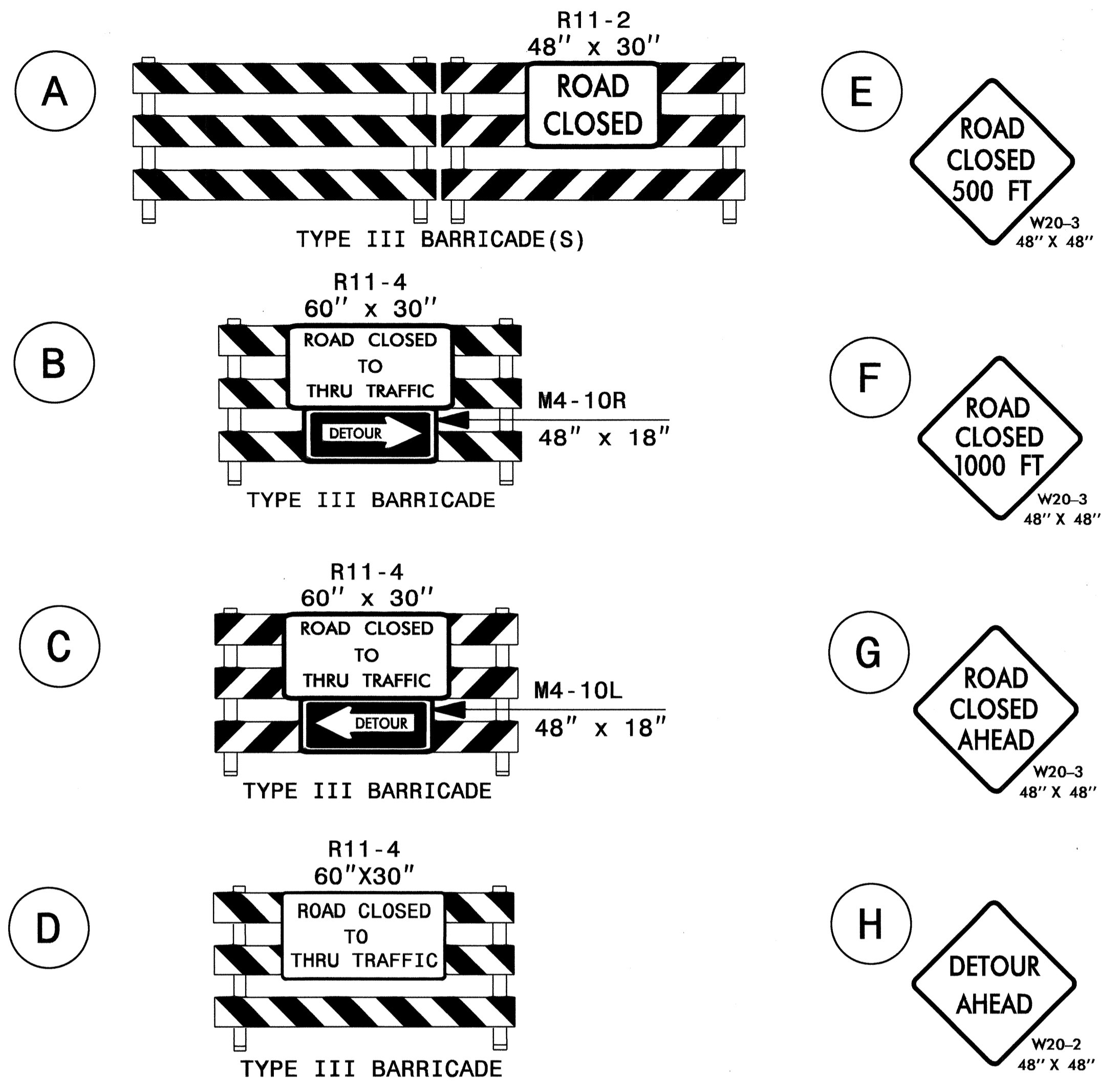
MESSAGE NO. 1	MESSAGE NO. 2
US 401 CLOSED AHEAD	FOLLOW DETOUR ROUTE

CHANGEABLE MESSAGE SIGN
1/2 MILE +/- FROM JONESVILLE RD



MESSAGE NO. 1	MESSAGE NO. 2
US 401 CLOSED AHEAD	FOLLOW DETOUR ROUTE

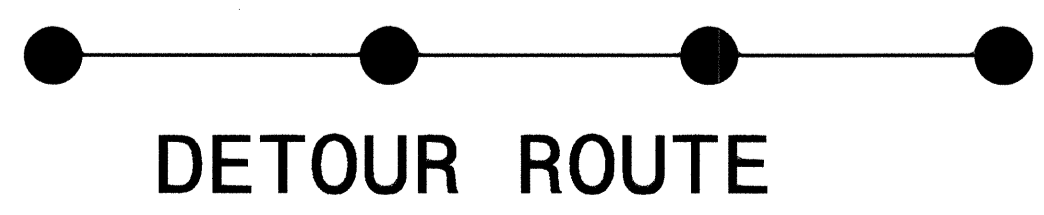
CHANGEABLE MESSAGE SIGN
1/2 MILE +/- FROM FORESTVILLE RD

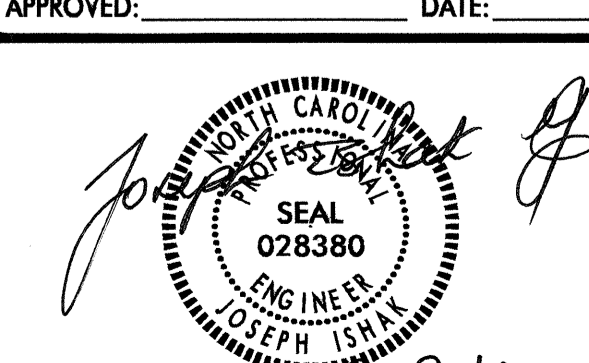

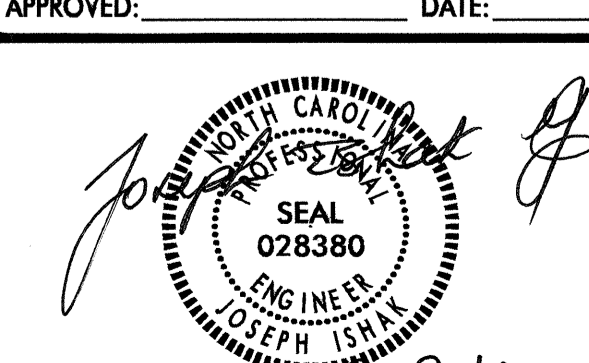


NOTES:

TRAFFIC CONTROL DEVICES (A) THRU (H) SHALL BE INSTALLED ACCORDING TO ROADWAY STANDARD DRAWING NO. 1101.03, SHEET 1 OF 9

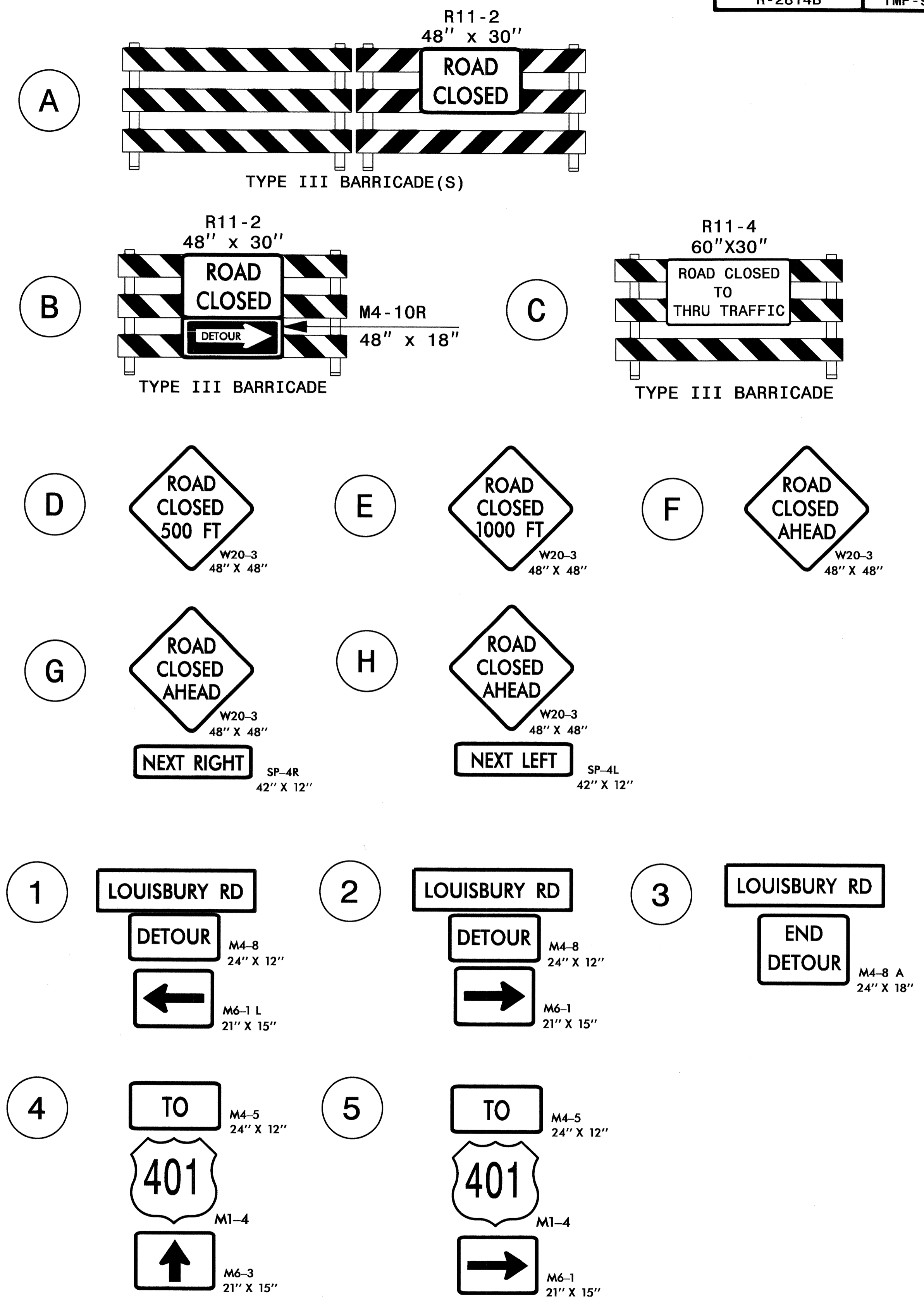
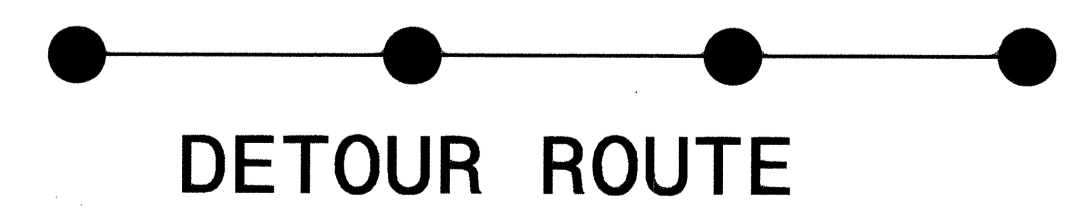
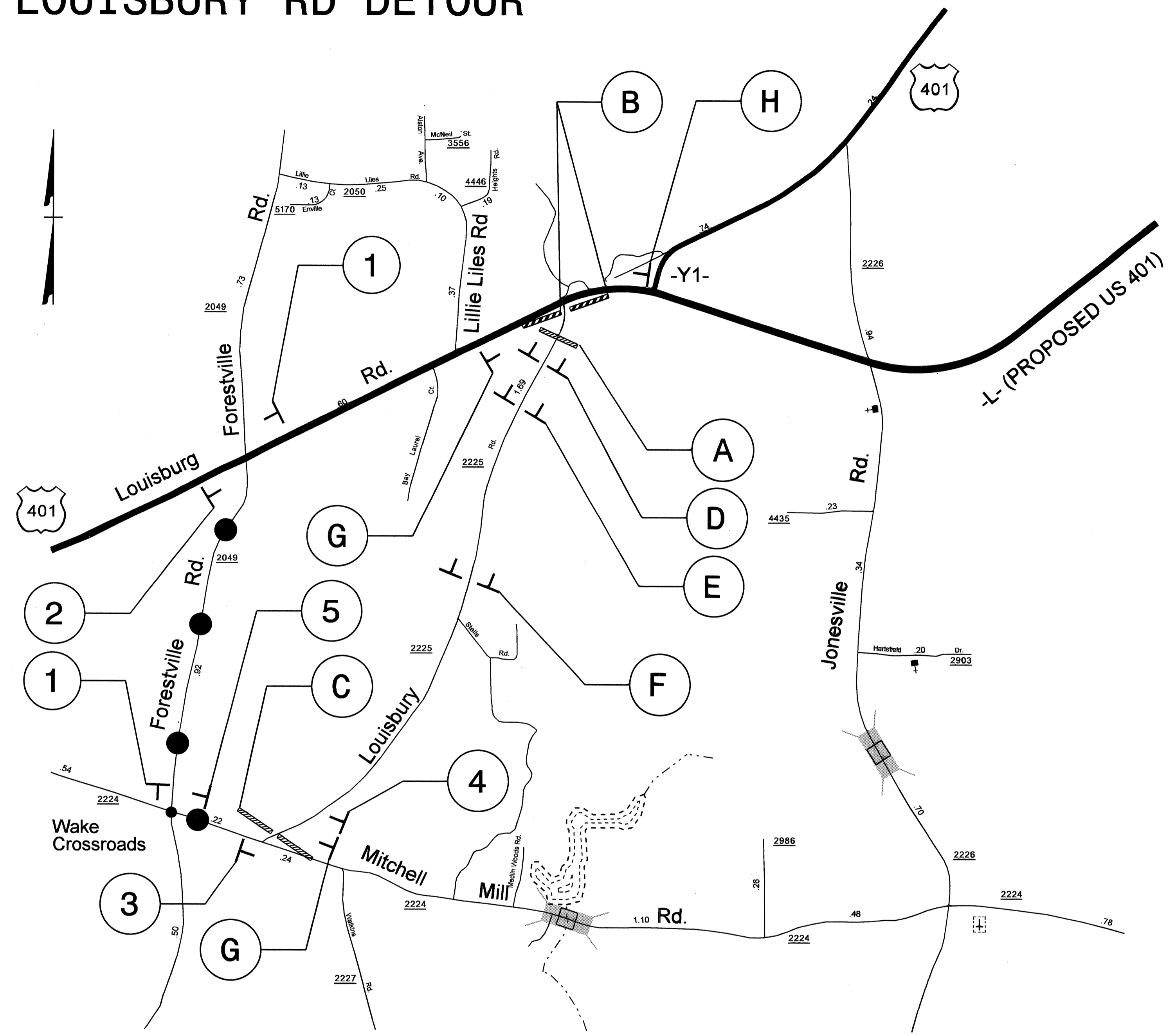
TRAFFIC CONTROL DEVICES (1) THRU (5) SHALL BE INSTALLED AS PER ENGINEER'S INSTRUCTION



APPROVED: 	DATE: <u>Oct 27, 2010</u>	 <p>DIVISION OF HIGHWAYS STATE OF NORTH CAROLINA DEPARTMENT OF TRANSPORTATION</p>	<p>AREA I US 401 OFFSITE DETOUR</p>
 <p>JOSEPH M. SHAW ENGINEER 028380</p>			

28-OCT-2010 14:30
 R:\401\offer\001\NSP\Projects\R2814B\Traffic\TrafficControl\TCP\R-2814B-TC-TMP-8.dgn
 sbjennings AT WZTC24131

LOUISBURY RD DETOUR

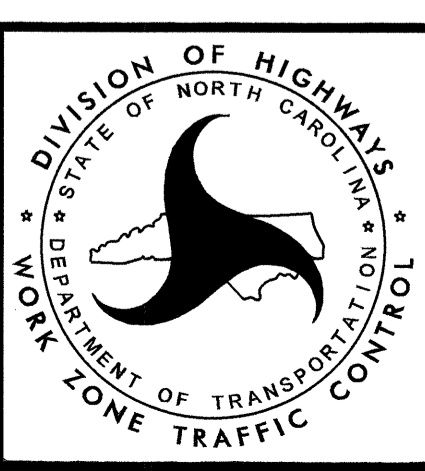


NOTES:

TRAFFIC CONTROL DEVICES (A) THRU (H) SHALL BE INSTALLED ACCORDING TO ROADWAY STANDARD DRAWING NO. 1101.03, SHEET 1 OF 9

TRAFFIC CONTROL DEVICES (1) THRU (5) SHALL BE INSTALLED AS PER ENGINEER'S INSTRUCTION

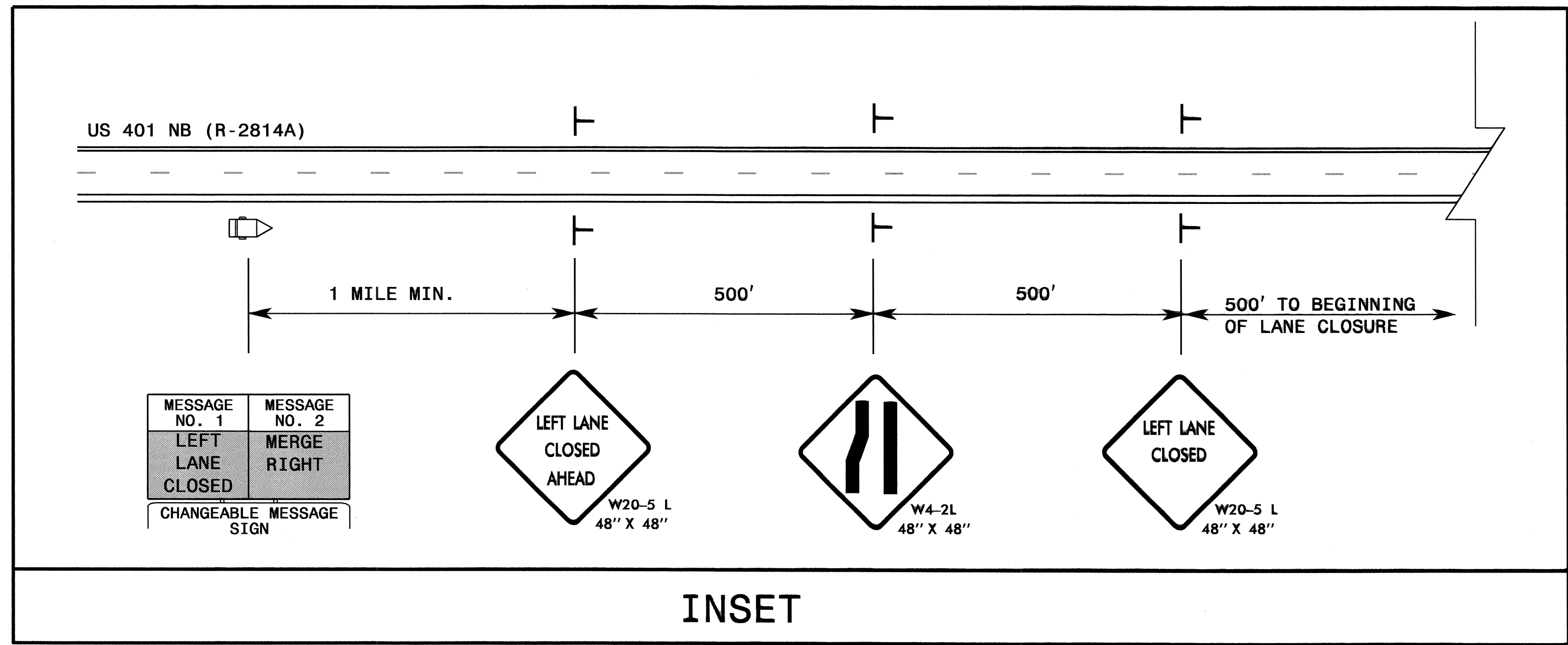
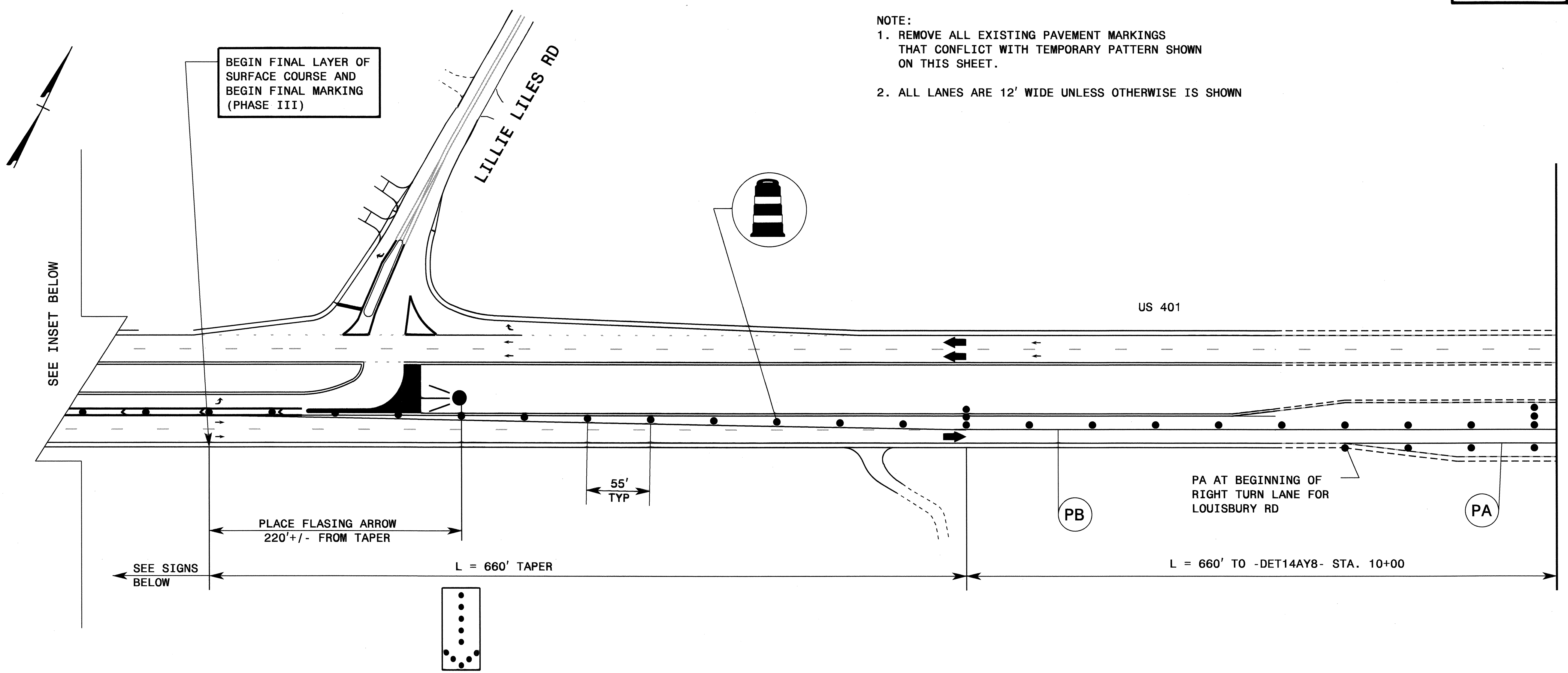
APPROVED: *Joseph I. Shattuck*
 DATE: Oct 29, 2010
 NORTH CAROLINA PROFESSIONAL ENGINEER
 SEAL 028380
 JOSEPH I. SHATTUCK



AREA I
LOUISBURY RD
OFFSITE DETOUR

28-OCT-2010 14:30
 \\dot\dfs\root\NSP\Projects-R\2814b\TrafficControl\TCP-R-2814B-TC-TMP-9.dgn
 sbjennings AT WZTC244731

NOTE:
 1. REMOVE ALL EXISTING PAVEMENT MARKINGS THAT CONFLICT WITH TEMPORARY PATTERN SHOWN ON THIS SHEET.
 2. ALL LANES ARE 12' WIDE UNLESS OTHERWISE IS SHOWN

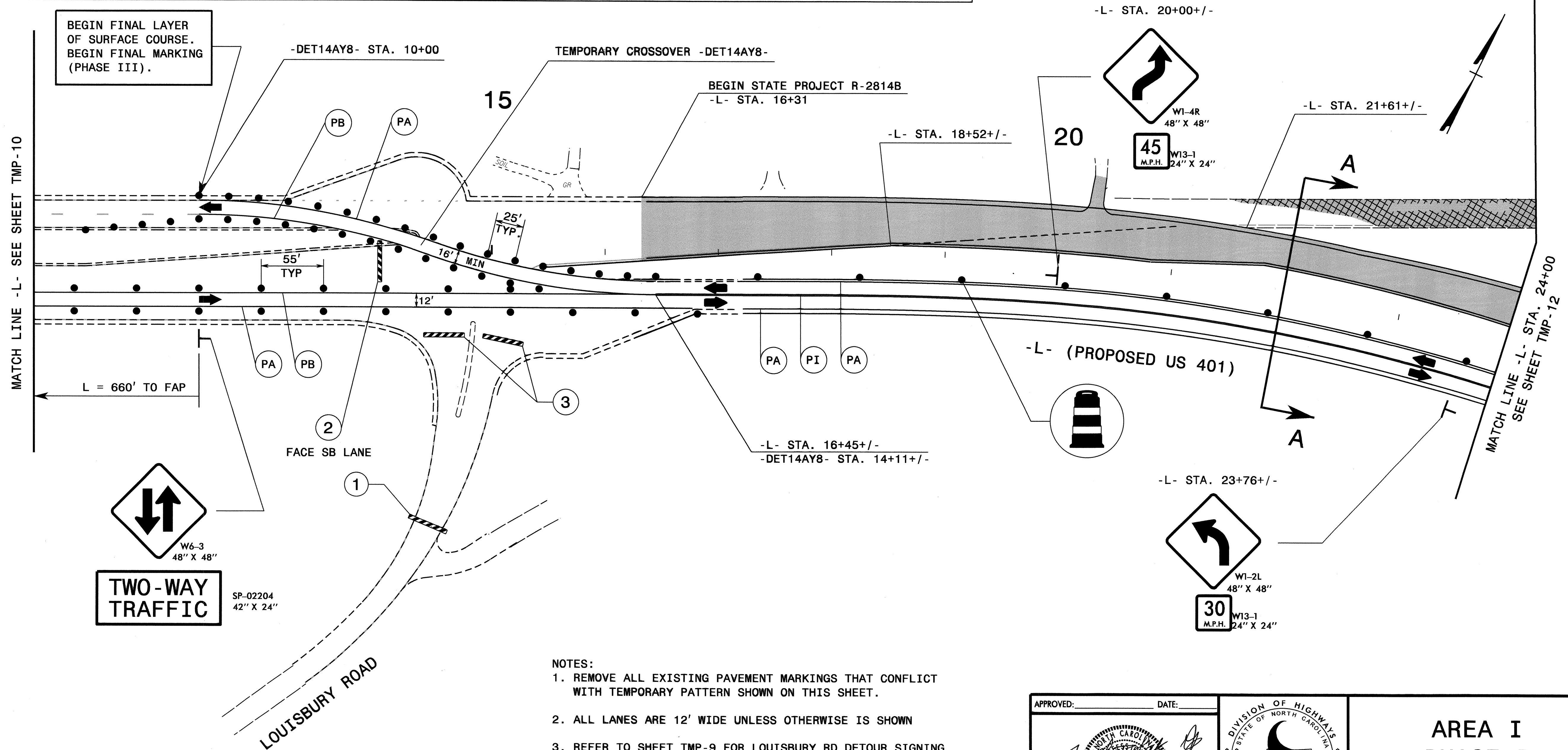
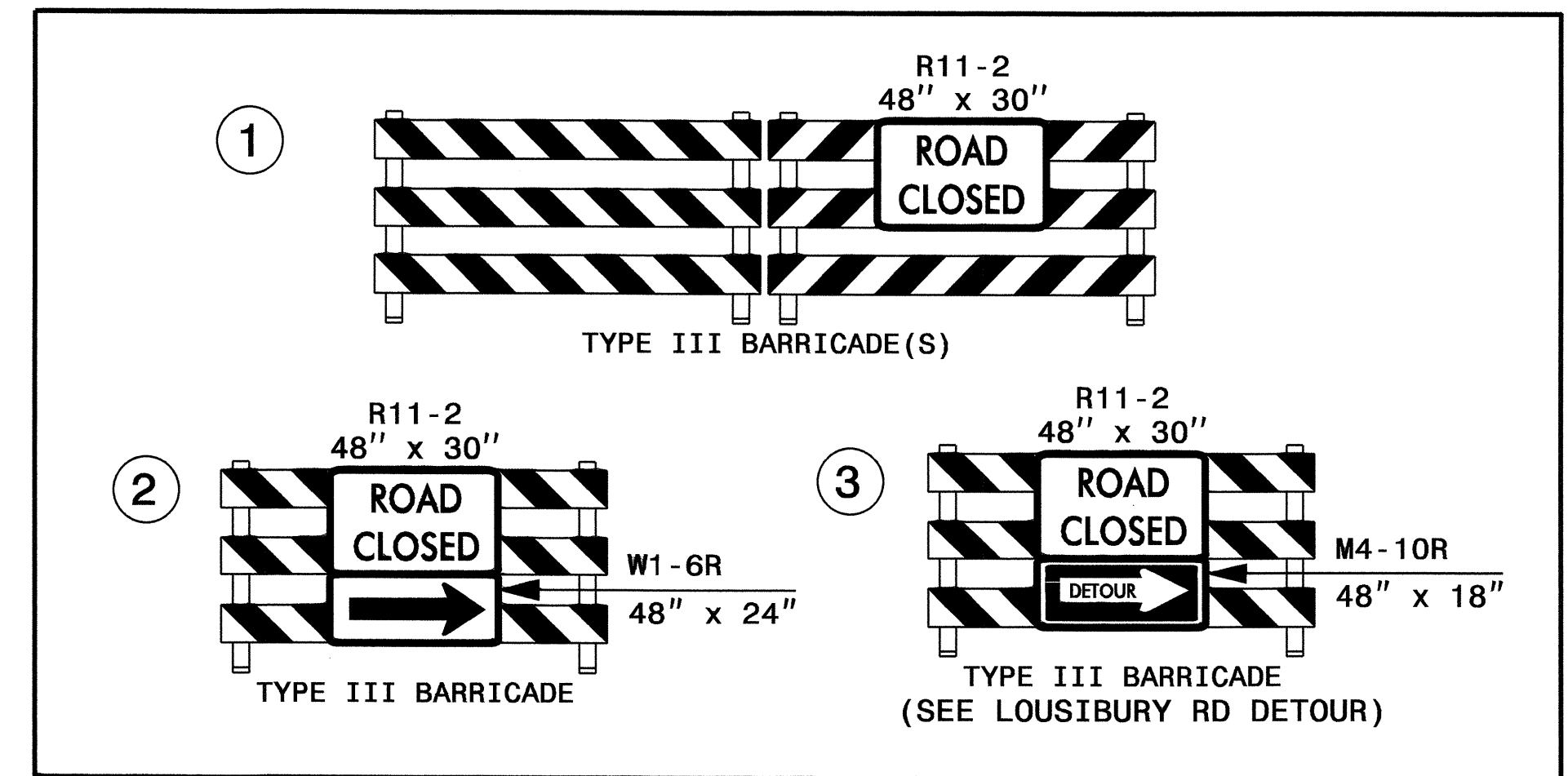
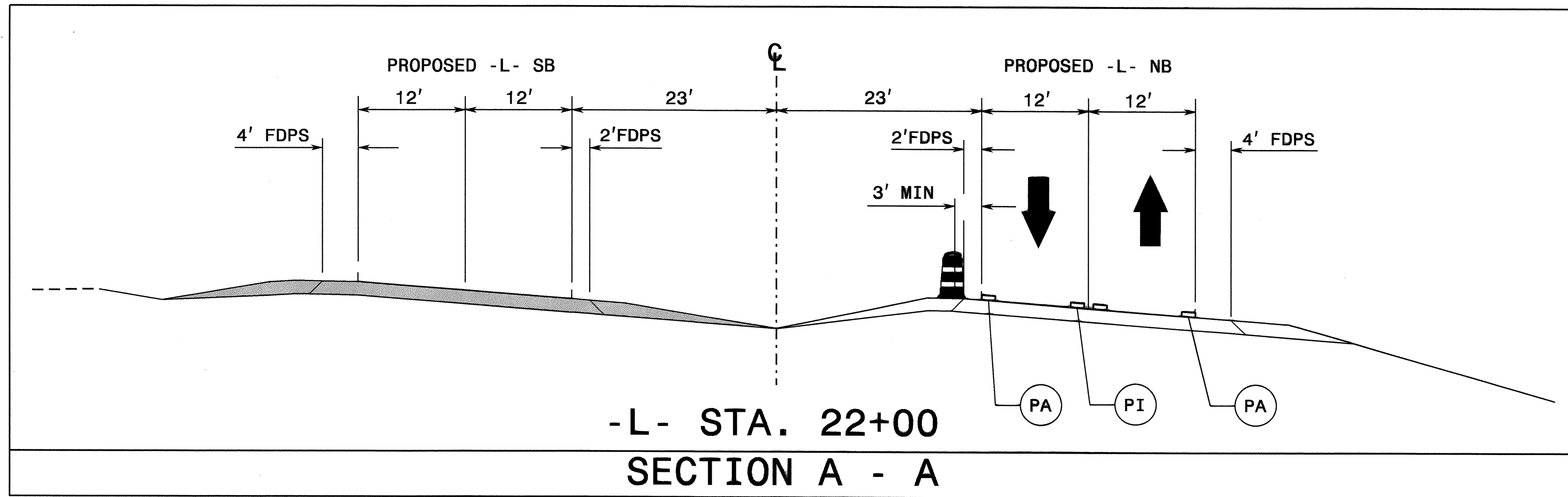


APPROVED: _____ DATE: _____
 [Signature]
 [Seal: NORTH CAROLINA PROFESSIONAL ENGINEER SEAL 028380 JOSEPH ISHAK]



**AREA I
 PHASE I
 DETAIL**

28-OCT-2010 14:31
 \\dot\dfs\0070\NSP\Projects-R\2814B\TrafficControl\TCP\R-2814B_TC_TMP_10.dgn
 sbjennings AT WZTC2473

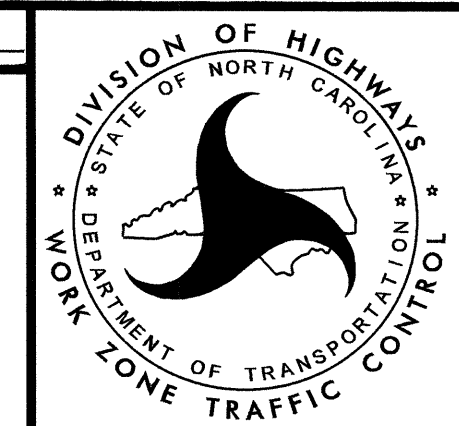


BEGIN FINAL LAYER OF SURFACE COURSE. BEGIN FINAL MARKING (PHASE III).

- NOTES:
1. REMOVE ALL EXISTING PAVEMENT MARKINGS THAT CONFLICT WITH TEMPORARY PATTERN SHOWN ON THIS SHEET.
 2. ALL LANES ARE 12' WIDE UNLESS OTHERWISE IS SHOWN
 3. REFER TO SHEET TMP-9 FOR LOUISBURY RD DETOUR SIGNING

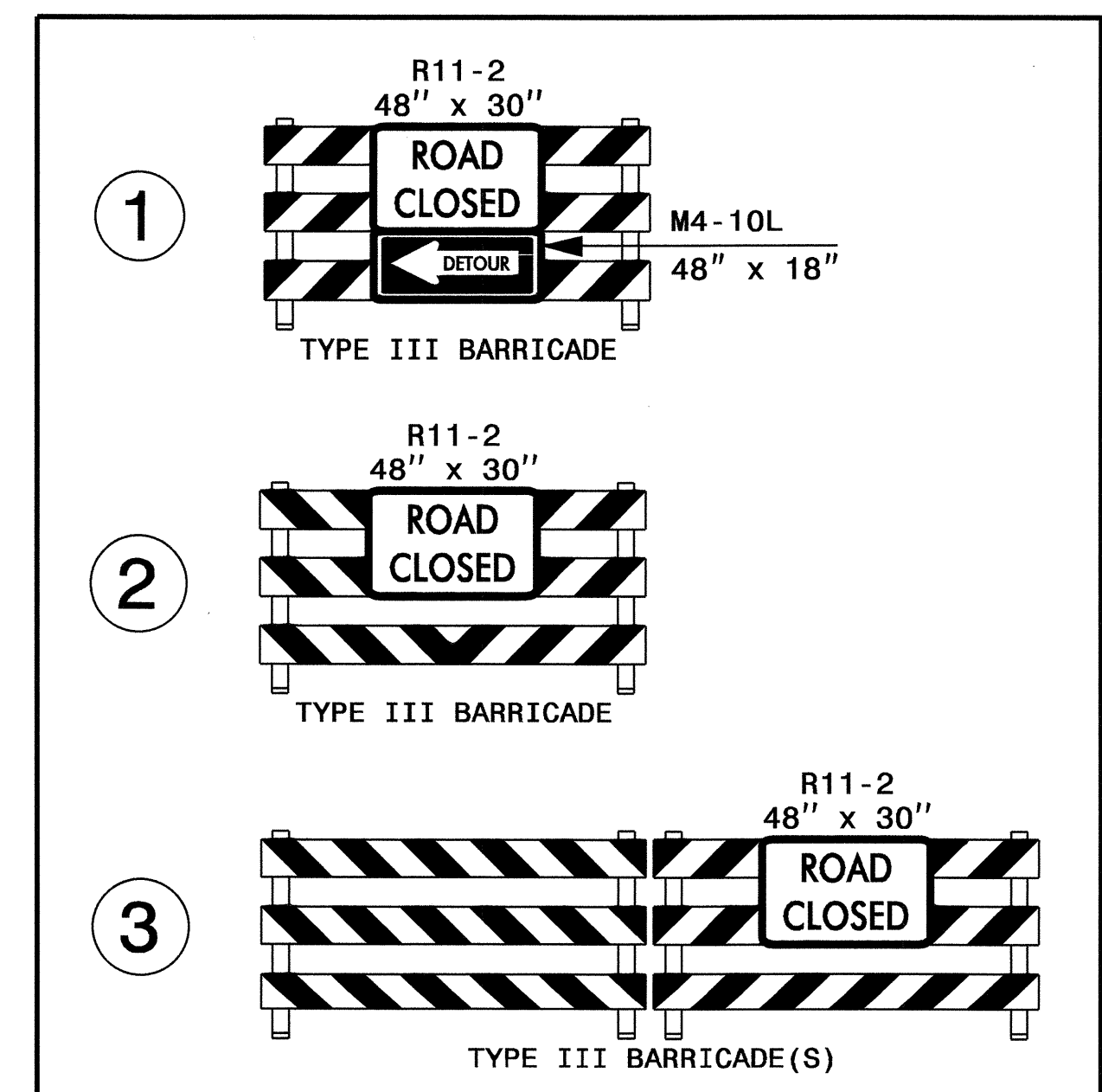
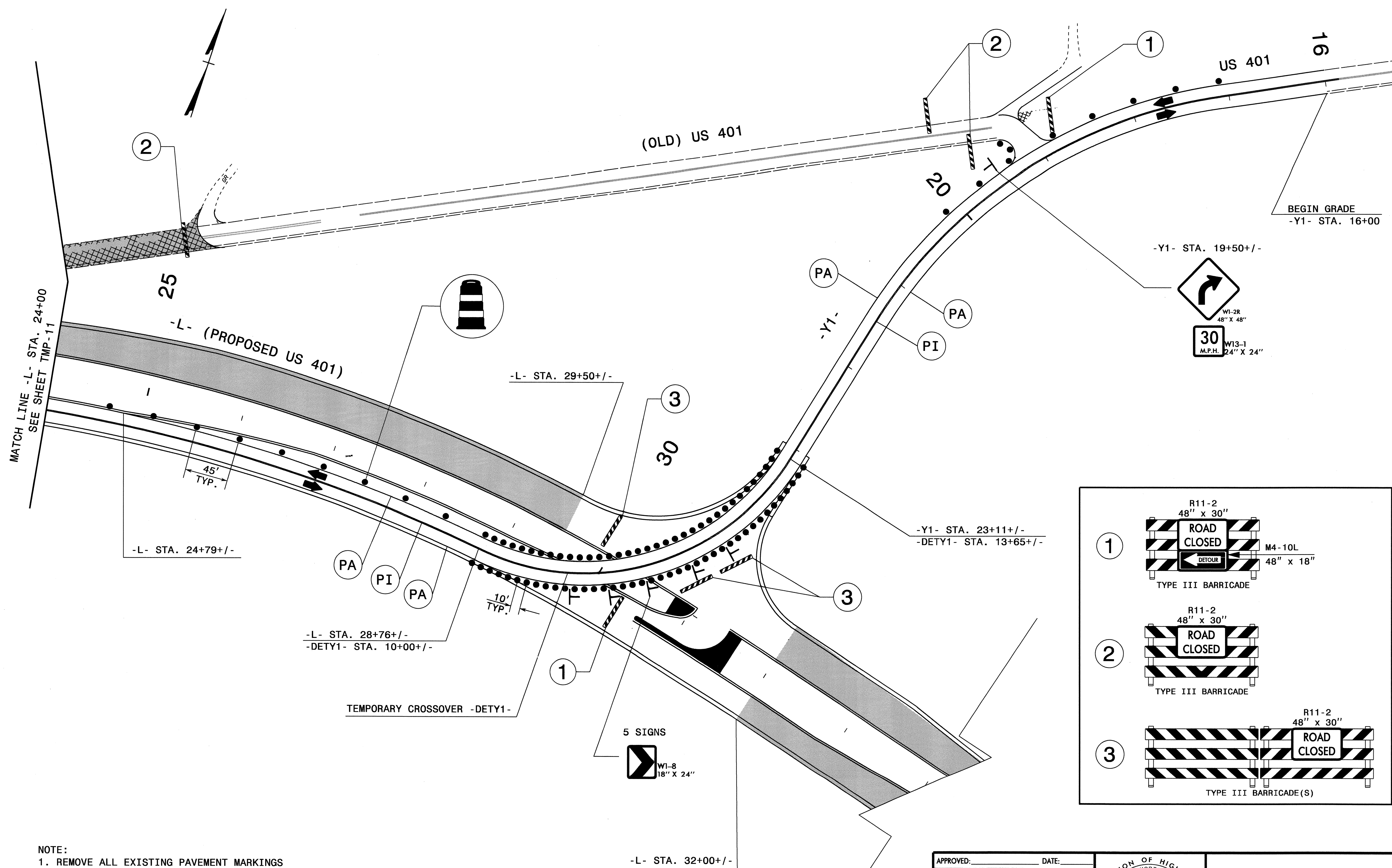
APPROVED: _____ DATE: _____

Joseph Ishii
 SEAL 028380
 ENGINEER
 JOSEPH ISHII
 OCT 29 2010



AREA I
 PHASE I
 DETAIL

28-OCT-2010 14:32
 \\dot\dfs\oof\01\NSP\Projects-R\2814B\Traffic\TrafficControl\TCP\VR-2814B.TC.TMP.il.dgn
 sbjennings AT WZTC24731



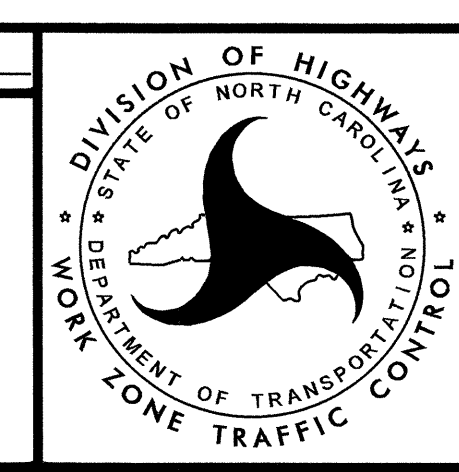
- NOTE:
1. REMOVE ALL EXISTING PAVEMENT MARKINGS THAT CONFLICT WITH TEMPORARY PATTERN SHOWN ON THIS SHEET.
 2. ALL LANES ARE 12' WIDE UNLESS OTHERWISE SHOWN

APPROVED: _____ DATE: _____

Joseph Ishak

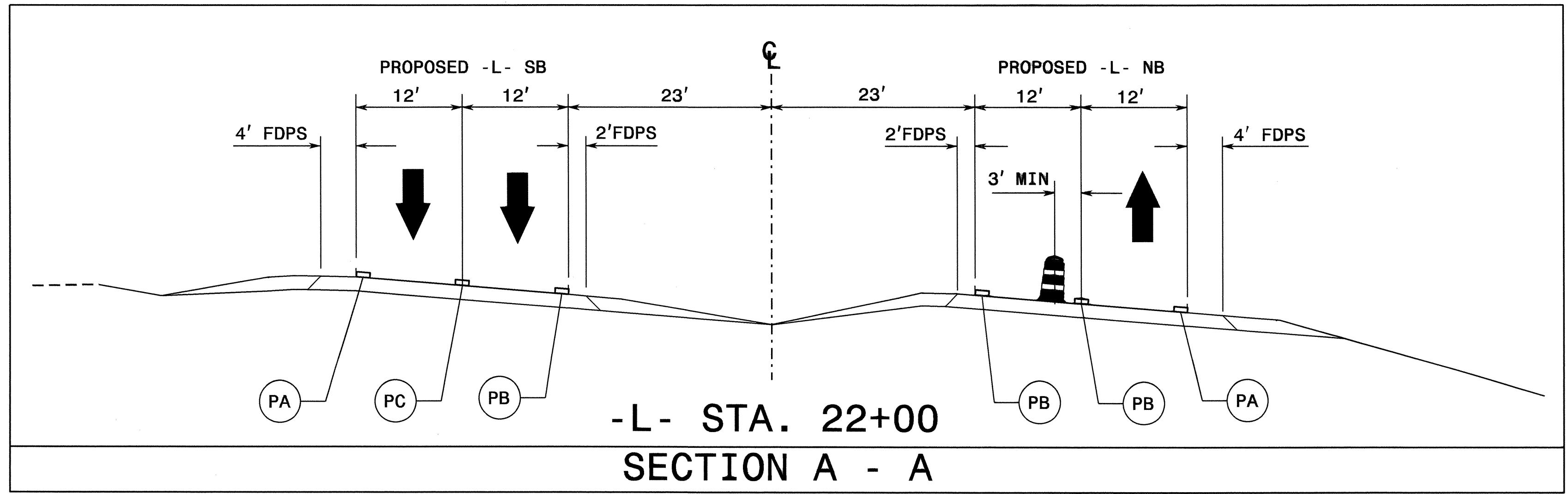
SEAL
028380
ENGINEER
JOSEPH ISHAK

Oct 29, 2010

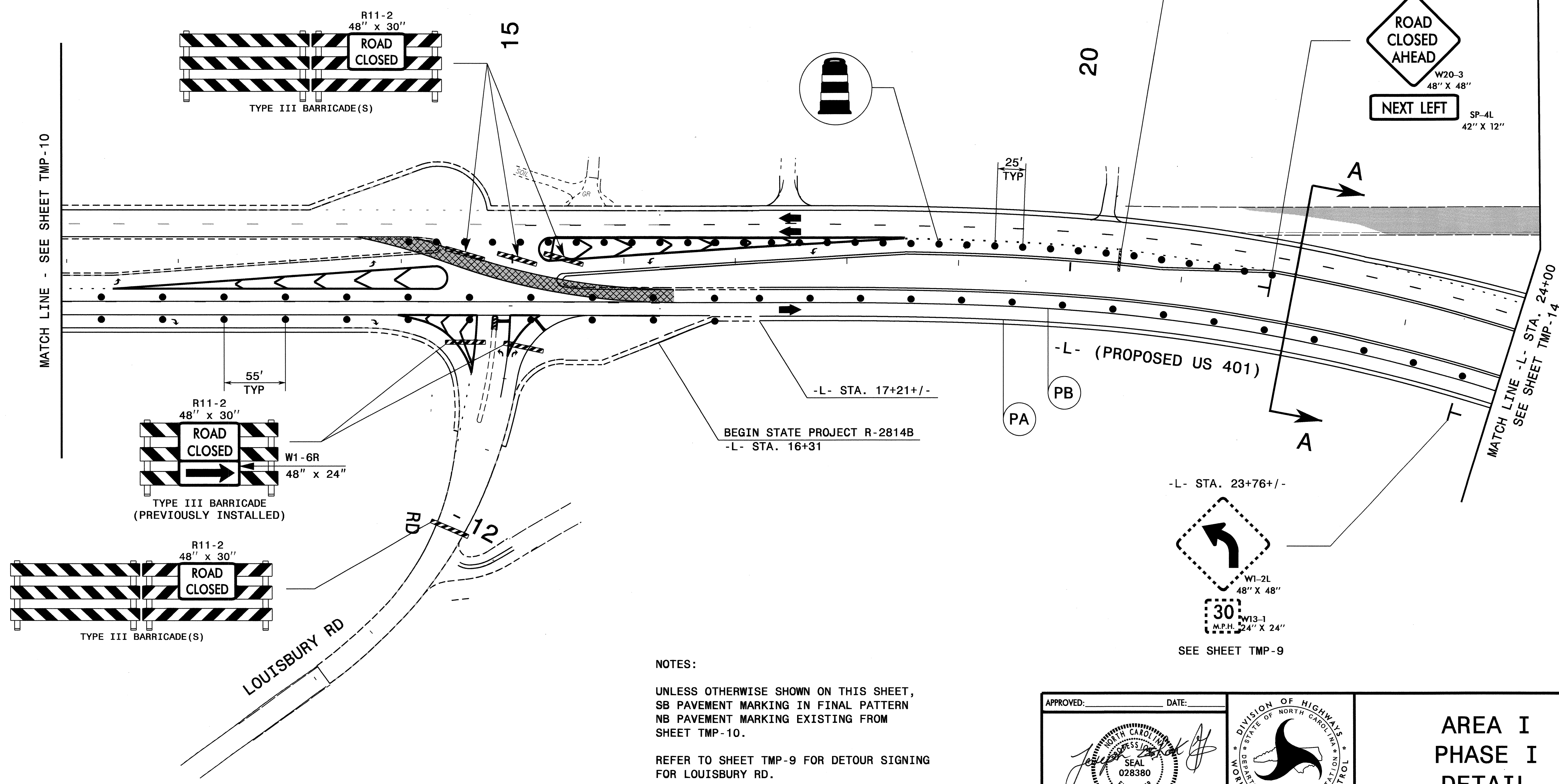


AREA I
PHASE I
DETAIL

28-OCT-2010 14:33
 \\dot\dfsroot\0\NSPProj\TIPProj\Projects-R\2814B\TrafficControl\TCP\R-2814B-TC_TMP-12.dgn
 sblennings AT WZTC24731



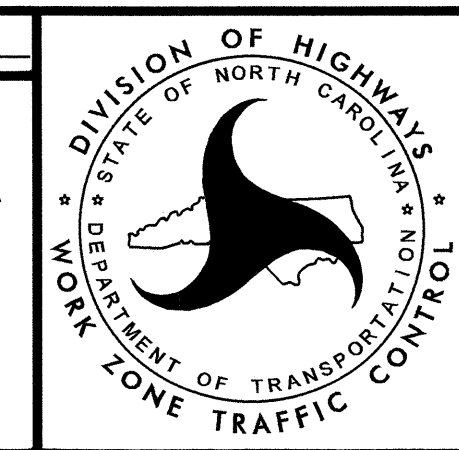
- NOTES:
- REFER TO FINAL PAVEMENT MARKING PLAN FOR ANY TEMPORARY PAVEMENT MARKING NOT IDENTIFIED.
 - ALL LANES ARE 12' WIDE UNLESS OTHERWISE SHOWN.



- NOTES:
- UNLESS OTHERWISE SHOWN ON THIS SHEET, SB PAVEMENT MARKING IN FINAL PATTERN NB PAVEMENT MARKING EXISTING FROM SHEET TMP-10.
- REFER TO SHEET TMP-9 FOR DETOUR SIGNING FOR LOUISBURY RD.

APPROVED: *Joseph Ishak* DATE: *Oct 29, 2010*

SEAL 028380 ENGINEER JOSEPH ISHAK

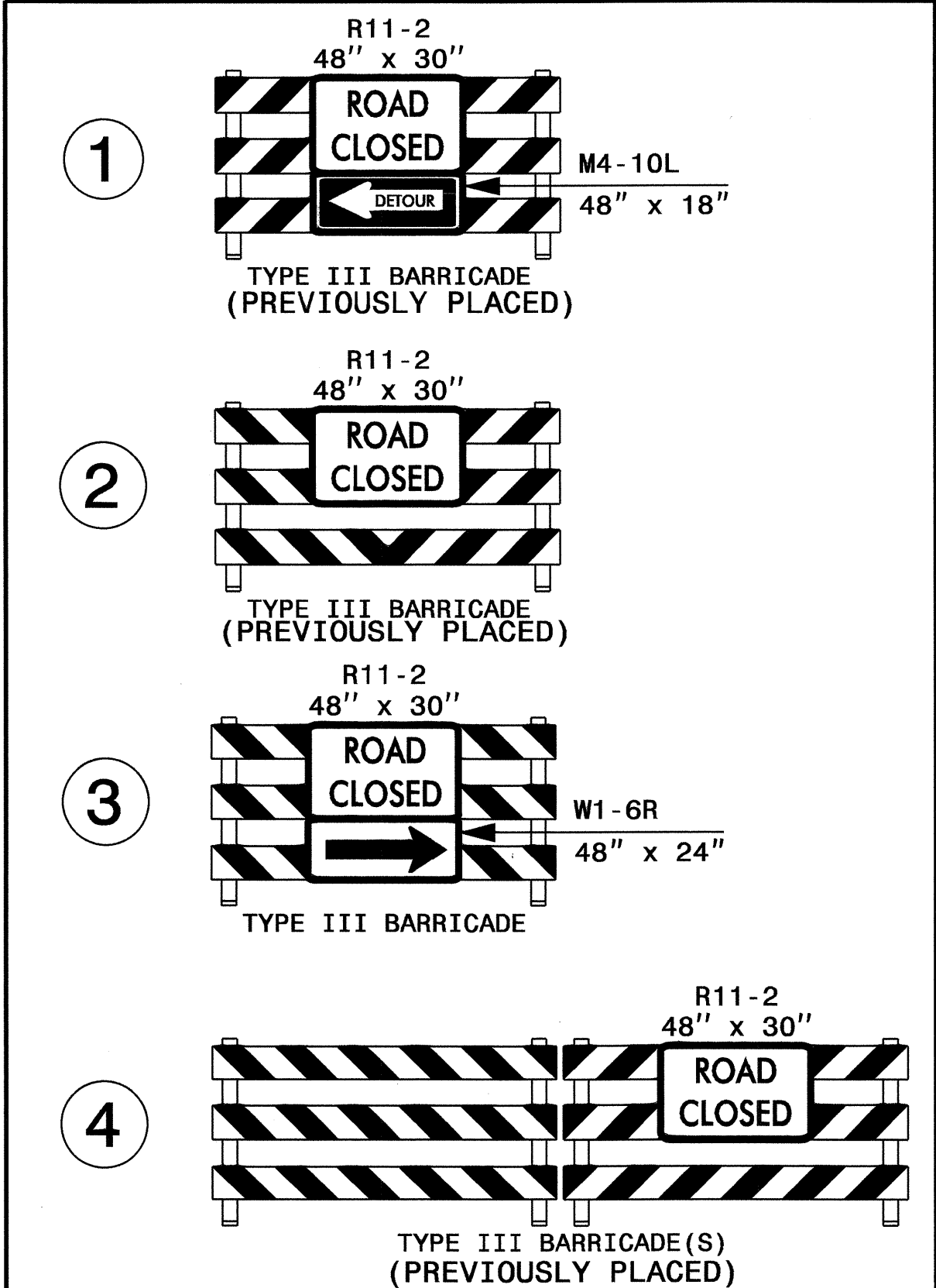
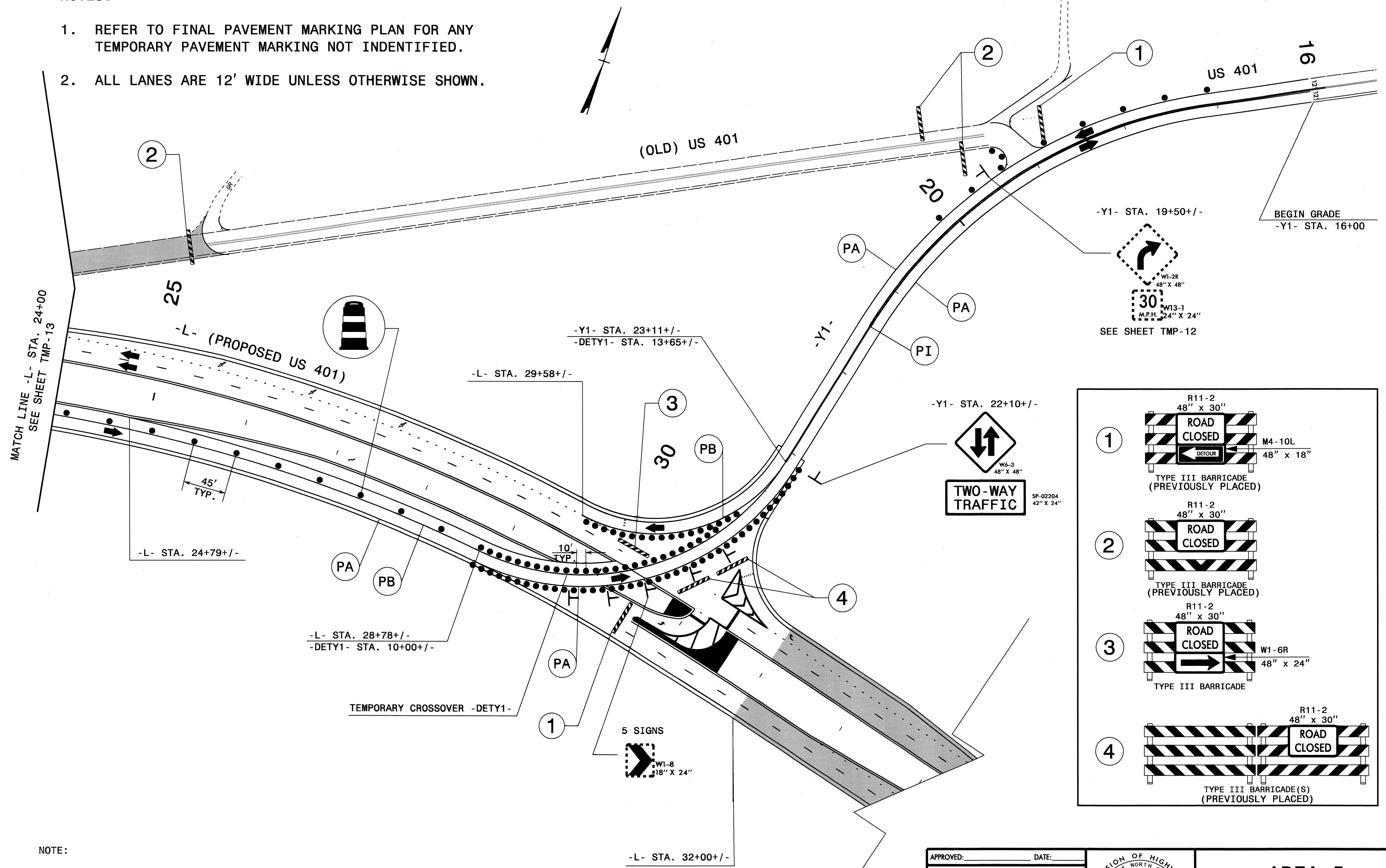


AREA I
PHASE I
DETAIL

28-OCT-2010 14:34 \\dot\gfsroot\0\NNSP\Projects-R\2814b\TrafficControl\TCP\R-2814B.TC.TMP_13.dgn sbjennings AT WZTC24T3

NOTES:

- REFER TO FINAL PAVEMENT MARKING PLAN FOR ANY TEMPORARY PAVEMENT MARKING NOT IDENTIFIED.
- ALL LANES ARE 12' WIDE UNLESS OTHERWISE SHOWN.



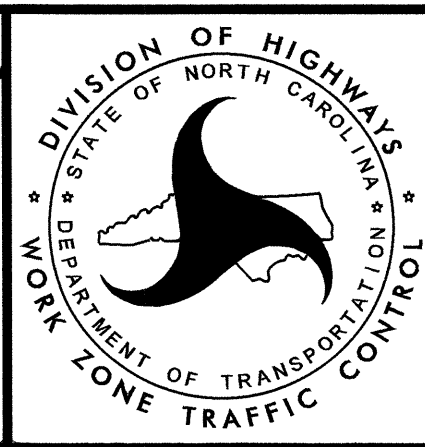
NOTE:

UNLESS OTHERWISE SHOWN ON THIS SHEET, SB PAVEMENT MARKING IN FINAL PATTERN NB PAVEMENT MARKING EXISTING FROM SHEET TMP-10.

28-OCT-2010 14:34 \\dot\dfsroot\TIPProjects\R2814B\TrafficControl\TCPAR-2814B.TC_TMP-14.dgn sbjennings AT WZTC24731

APPROVED: _____ DATE: _____

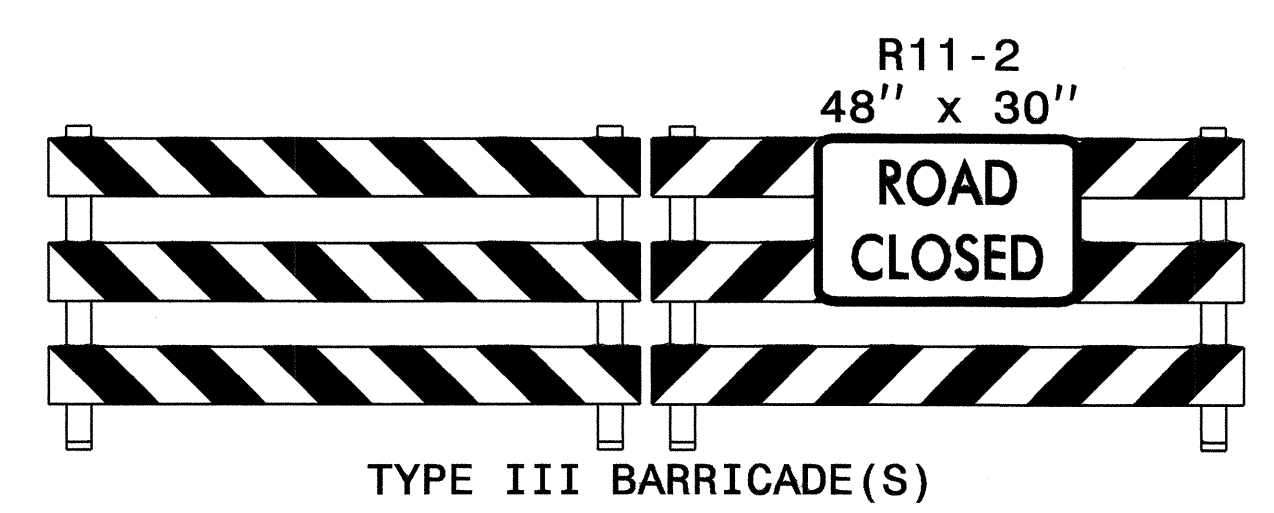
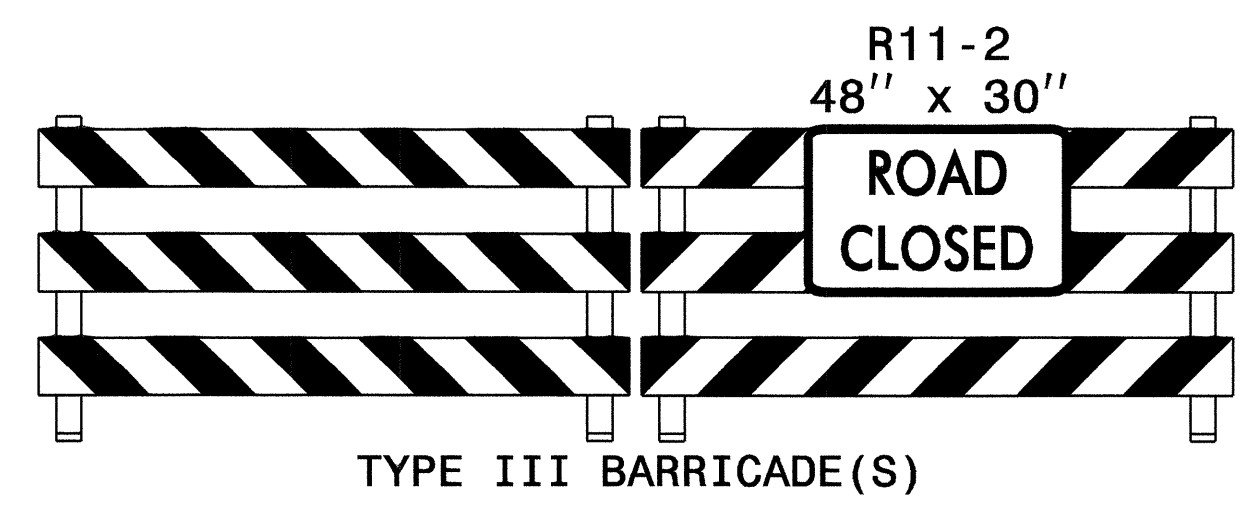
Oct 27, 2010



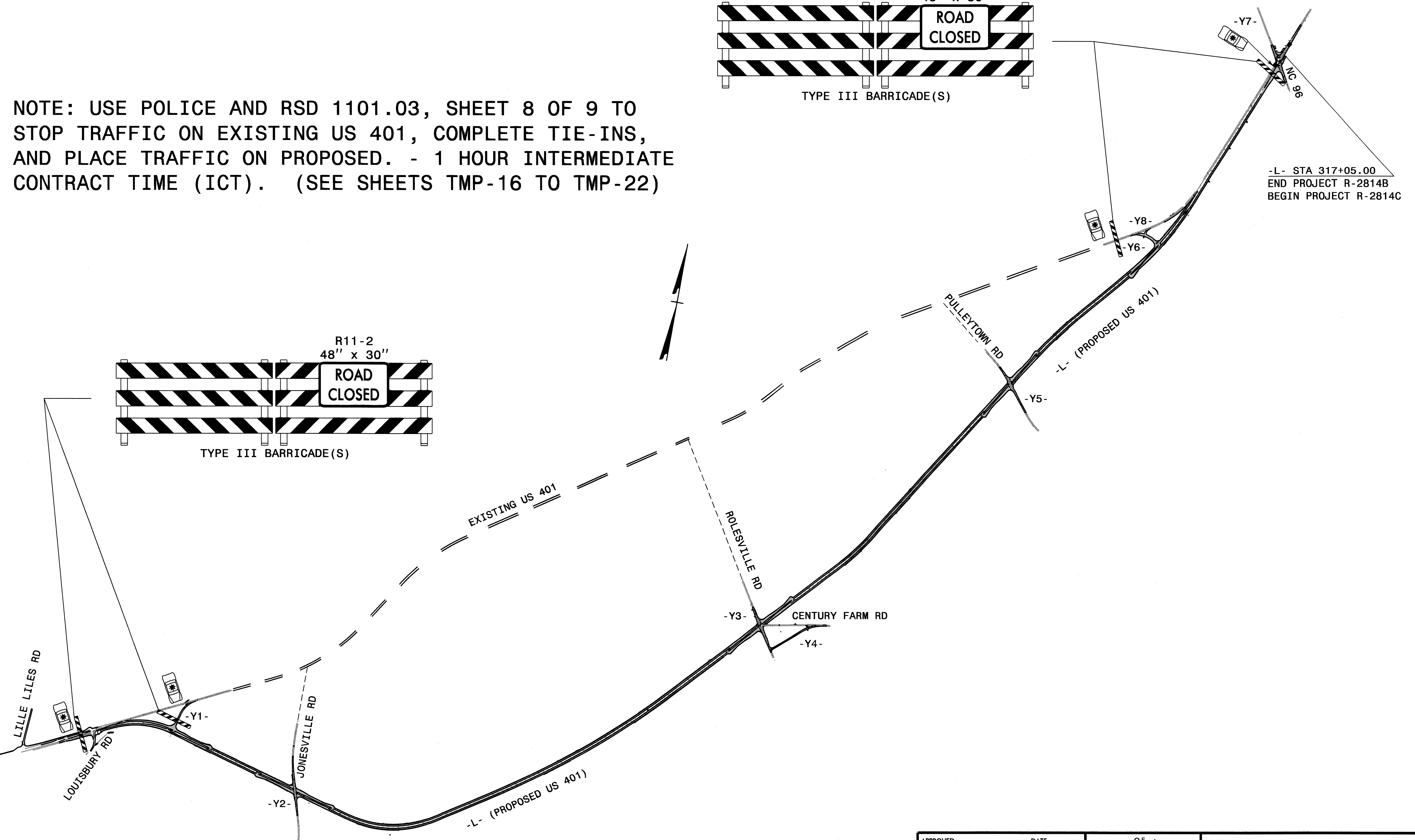
**AREA I
PHASE I
DETAIL**

US 401 1 HR ICT

NOTE: USE POLICE AND RSD 1101.03, SHEET 8 OF 9 TO STOP TRAFFIC ON EXISTING US 401, COMPLETE TIE-INS, AND PLACE TRAFFIC ON PROPOSED. - 1 HOUR INTERMEDIATE CONTRACT TIME (ICT). (SEE SHEETS TMP-16 TO TMP-22)

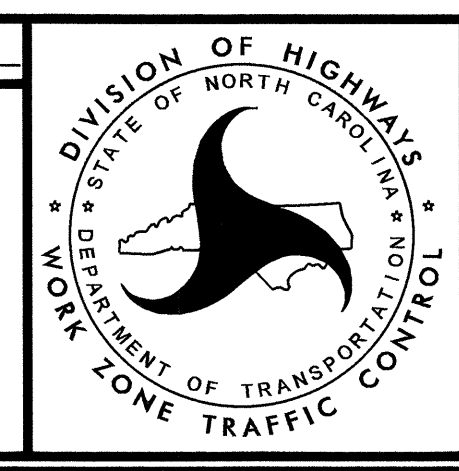


28-OCT-2010 14:36
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 sbjennings AT WZTC2473



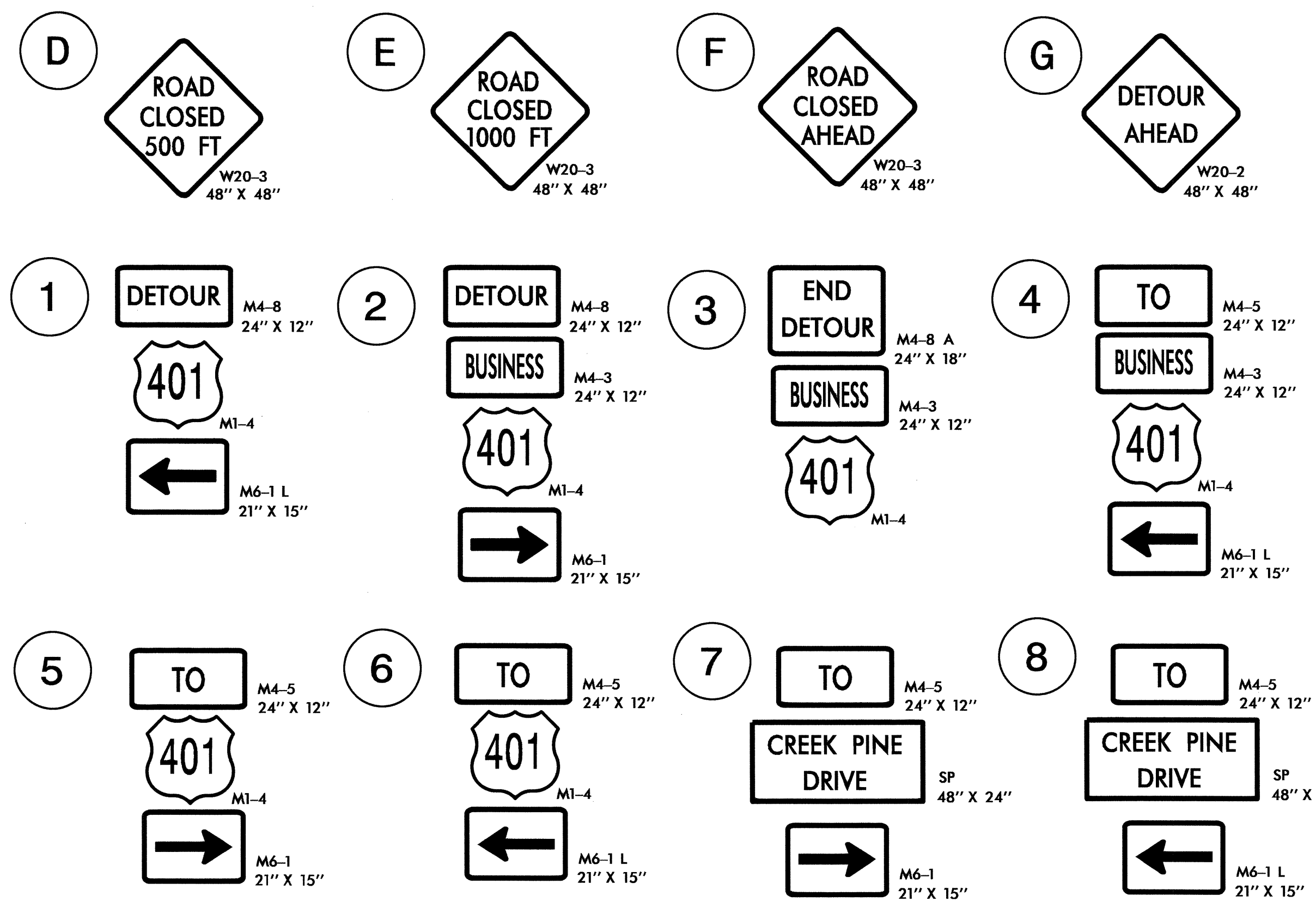
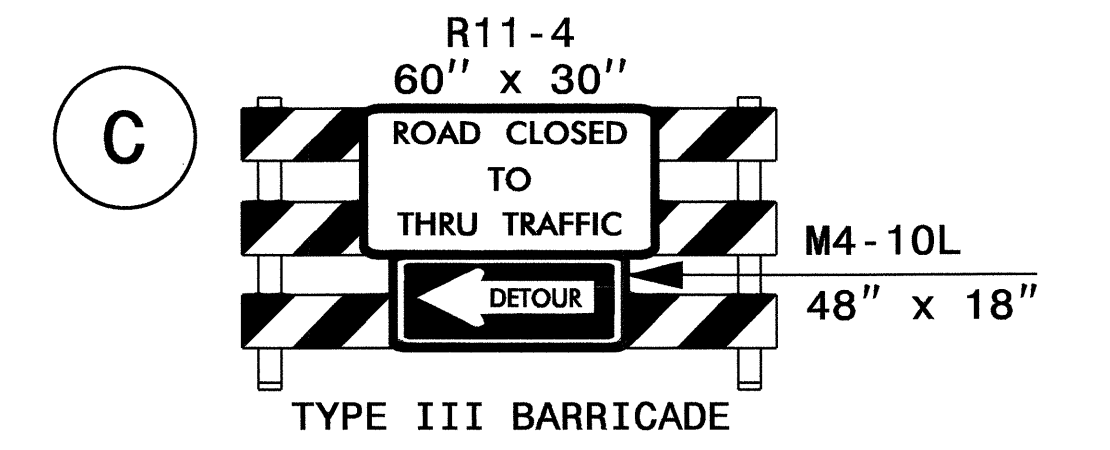
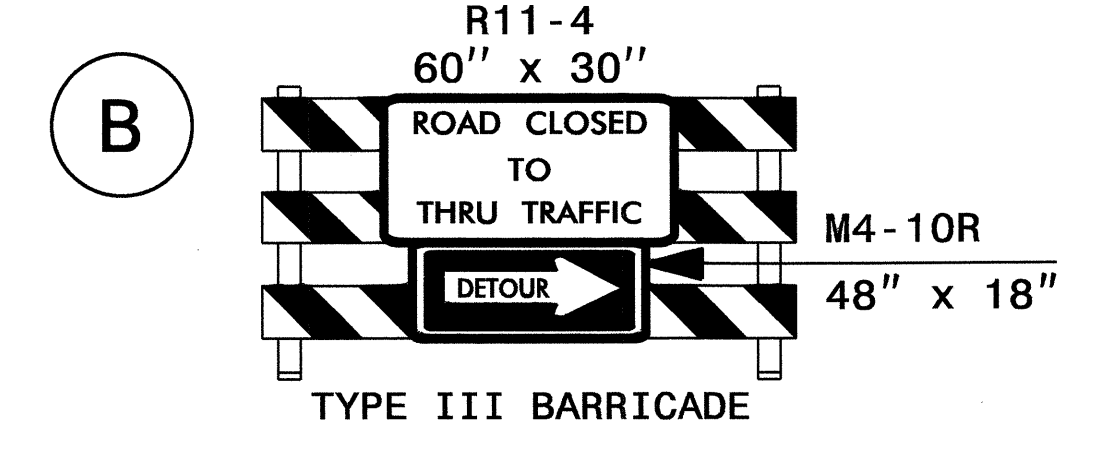
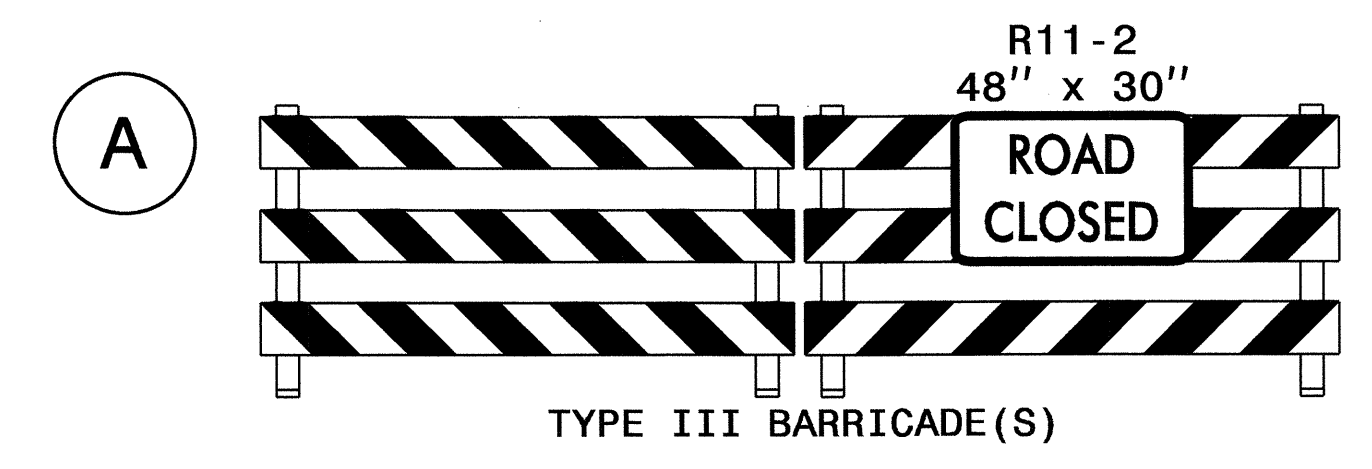
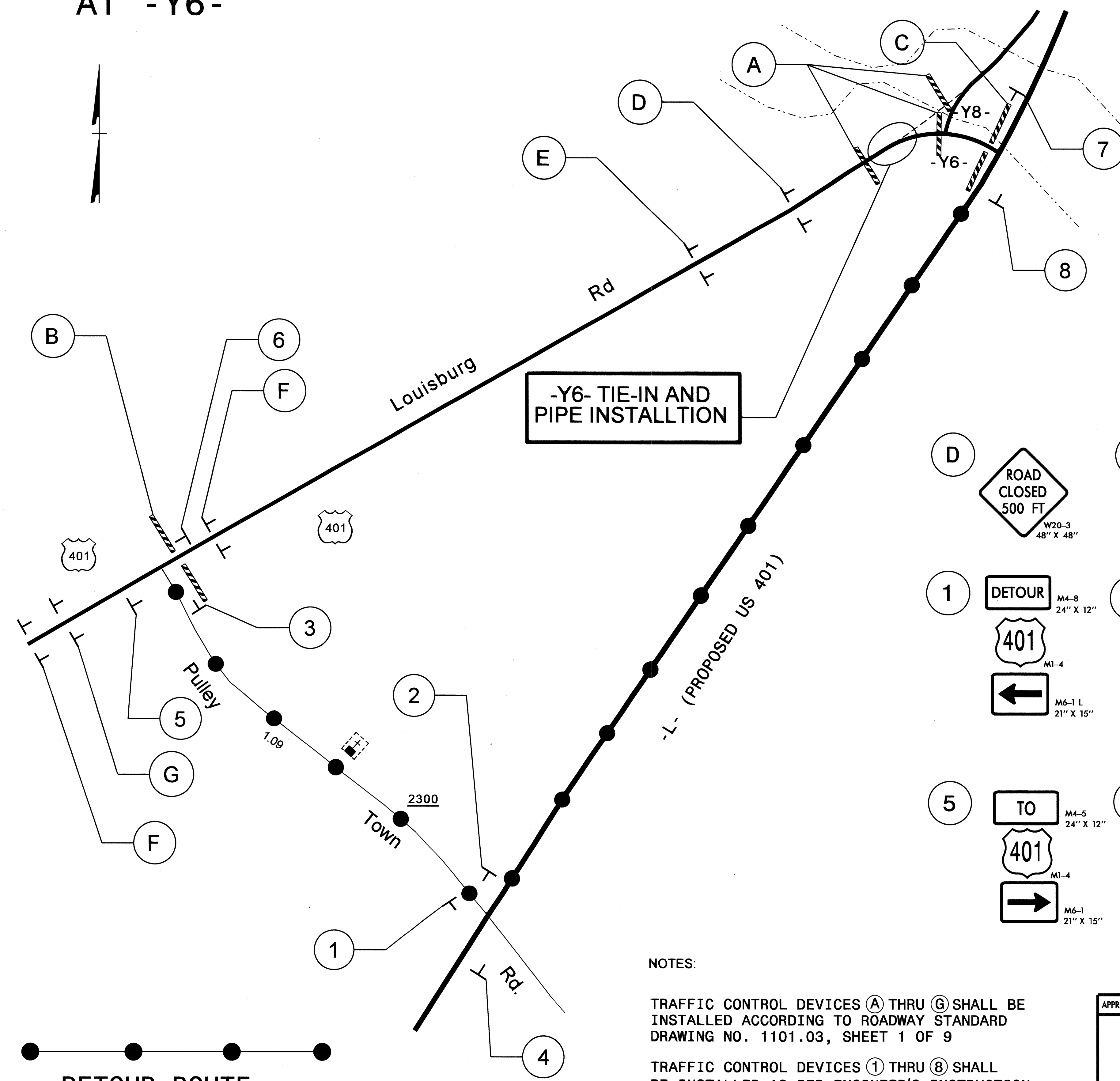
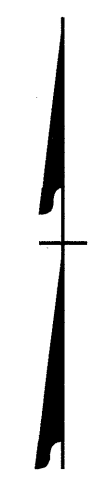
APPROVED: _____ DATE: _____

oel 29, 2010



AREA I
PHASE I

US 401 DETOUR AT -Y6-



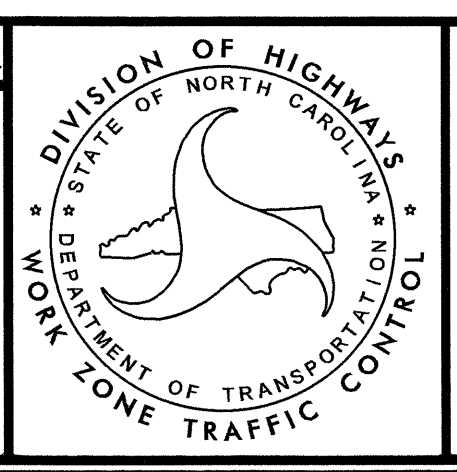
NOTES:

TRAFFIC CONTROL DEVICES (A) THRU (G) SHALL BE INSTALLED ACCORDING TO ROADWAY STANDARD DRAWING NO. 1101.03, SHEET 1 OF 9

TRAFFIC CONTROL DEVICES (1) THRU (8) SHALL BE INSTALLED AS PER ENGINEER'S INSTRUCTION

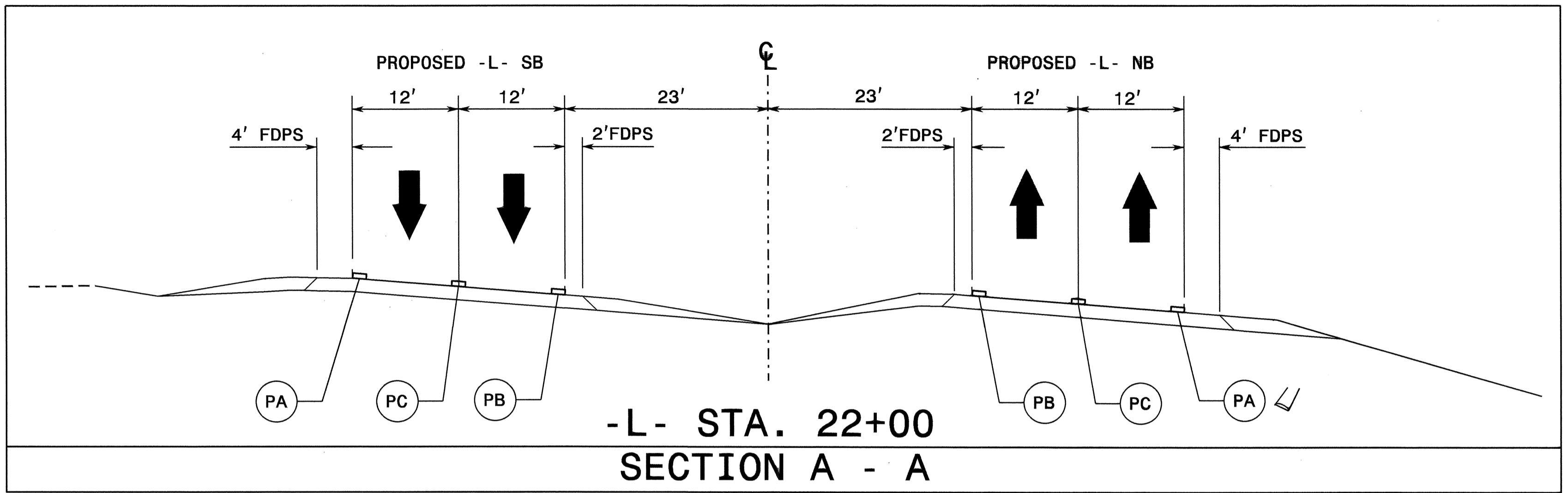
APPROVED: DATE: *Oct 29, 2010*

SEAL 028380
REGISTERED PROFESSIONAL ENGINEER
STATE OF NORTH CAROLINA



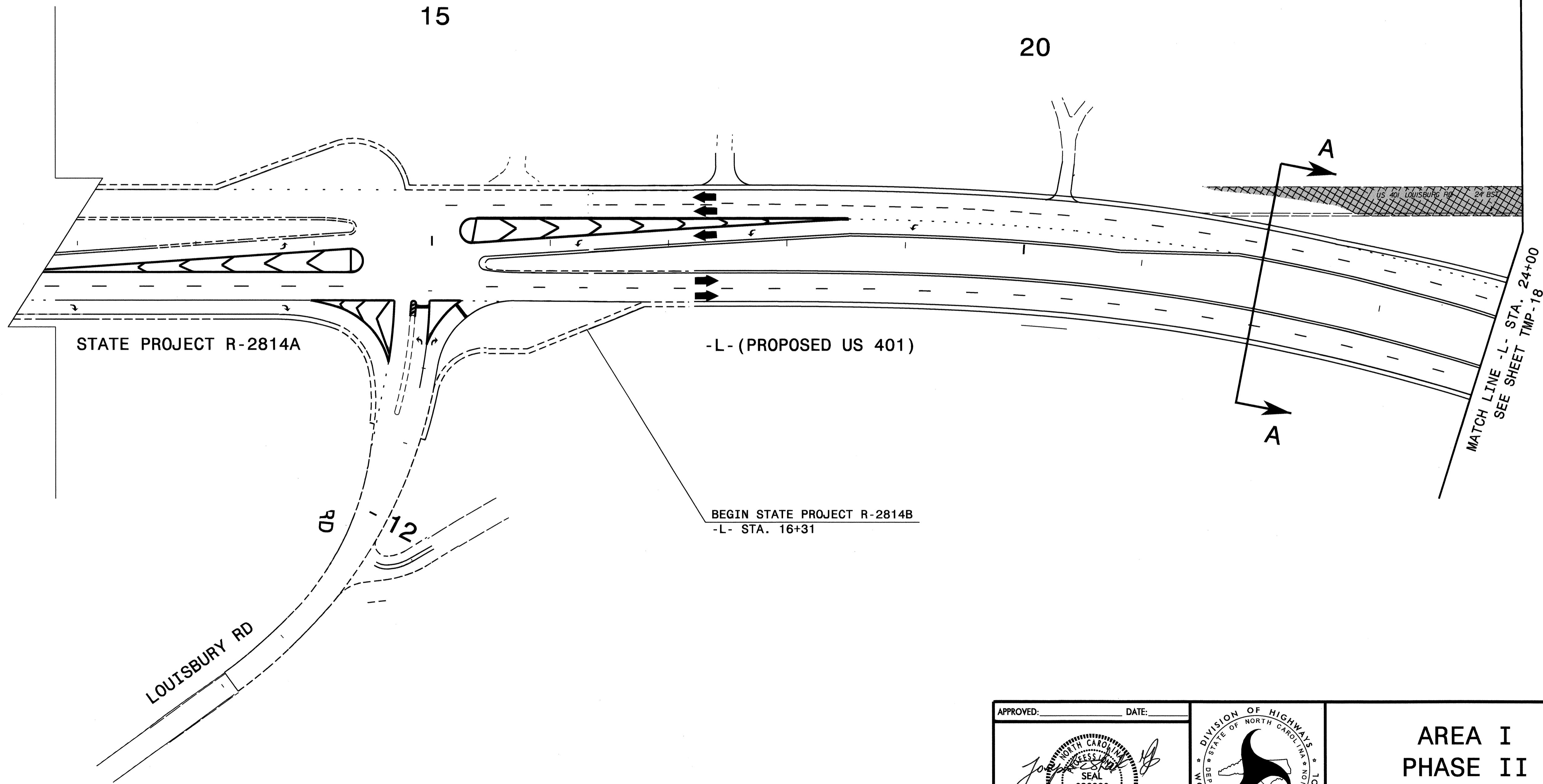
AREA I
US 401 AT -Y6-
OFFSITE DETOUR

28-OCT-2010 14:37 \\dot\dfsroot\01\NSP\Projects-R\2814B\Traffic\TrafficControl\TCP\N-2814B.TC.TMP_16.dgn sbljnings AT WZTC24731



NOTES:

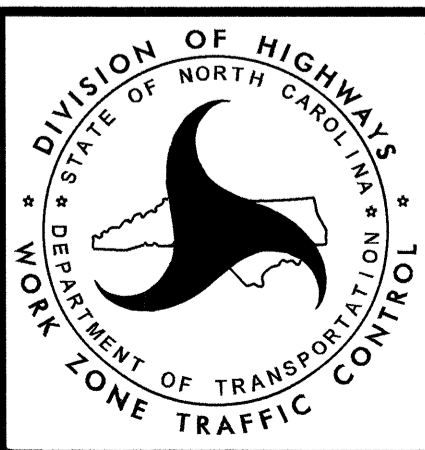
1. REFER TO FINAL PAVEMENT MARKING PLAN FOR ANY TEMPORARY PAVEMENT MARKING NOT IDENTIFIED.
2. ALL LANES ARE 12' WIDE UNLESS OTHERWISE SHOWN.



28-OCT-2010 14:38
 \\dot\gfrsroot\01\NSP\proj\TIP\Projects-RAR2814b\TrafficControl\TCP\R-2814B_TC_TMP_17.dgn
 sbjennings AT WZTC24731

APPROVED: _____ DATE: _____

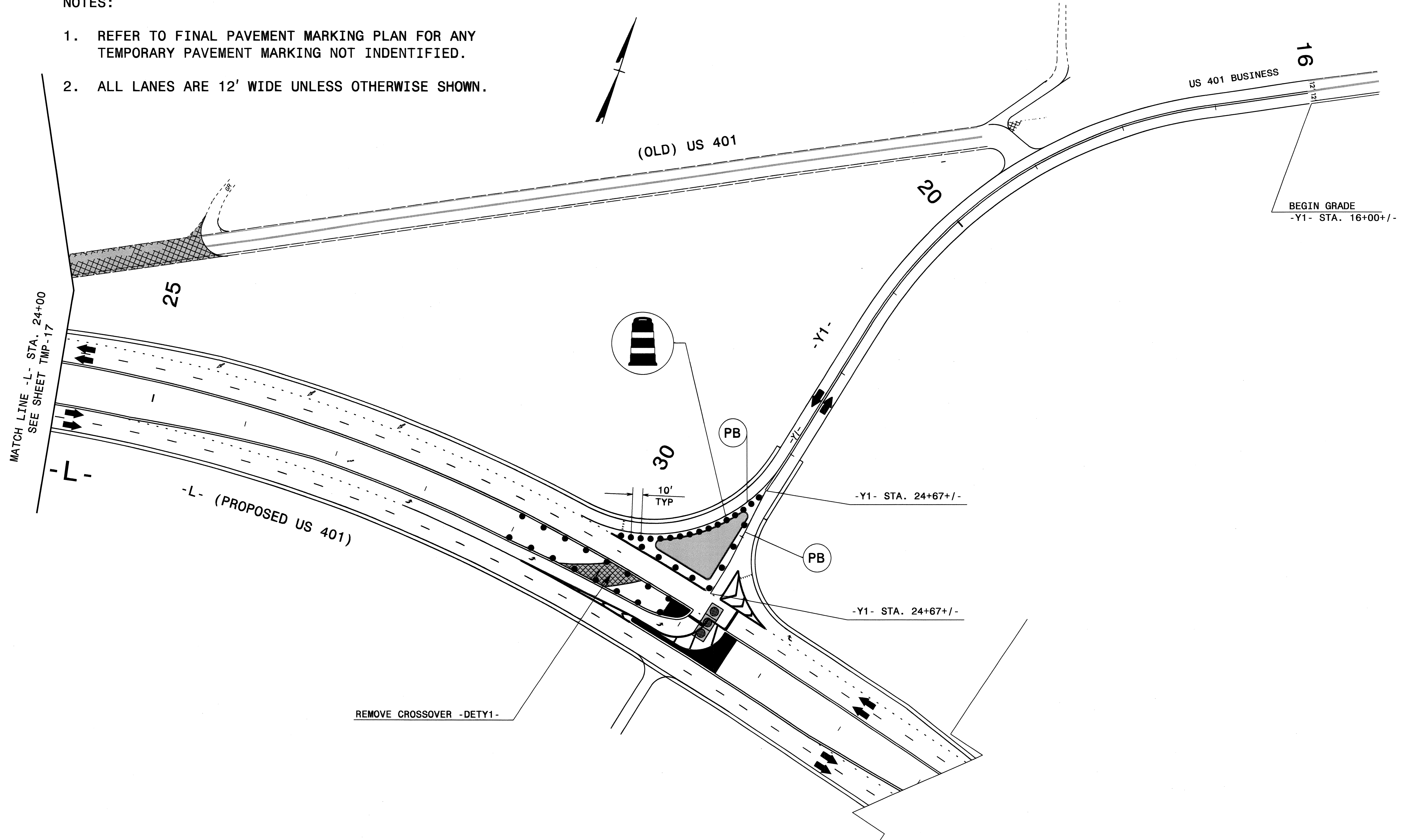
oct 29 2010



**AREA I
PHASE II
DETAIL**

NOTES:

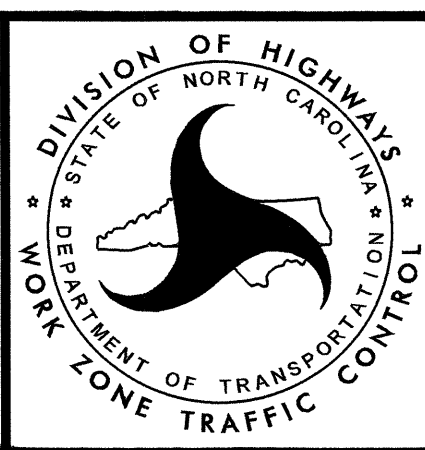
1. REFER TO FINAL PAVEMENT MARKING PLAN FOR ANY TEMPORARY PAVEMENT MARKING NOT IDENTIFIED.
2. ALL LANES ARE 12' WIDE UNLESS OTHERWISE SHOWN.



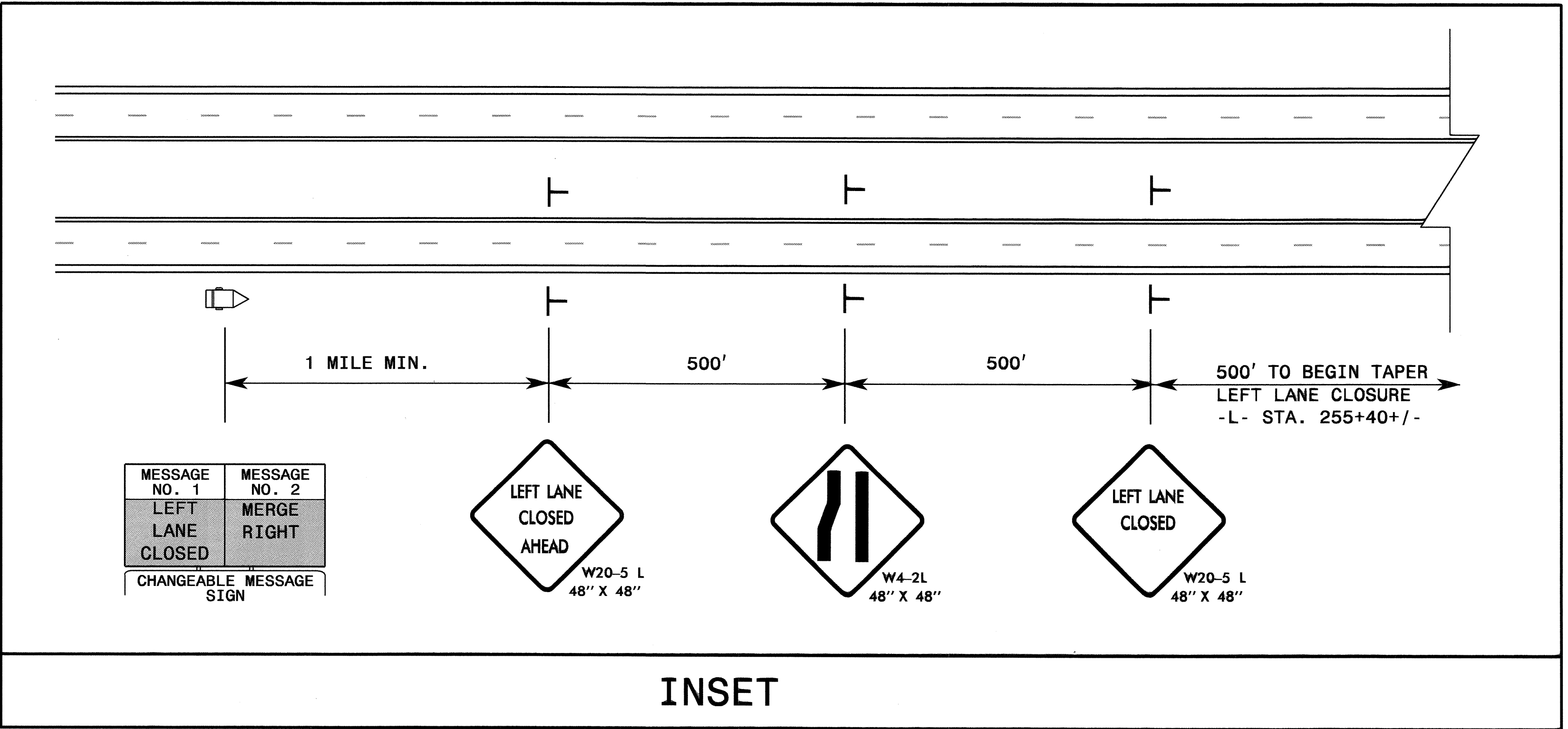
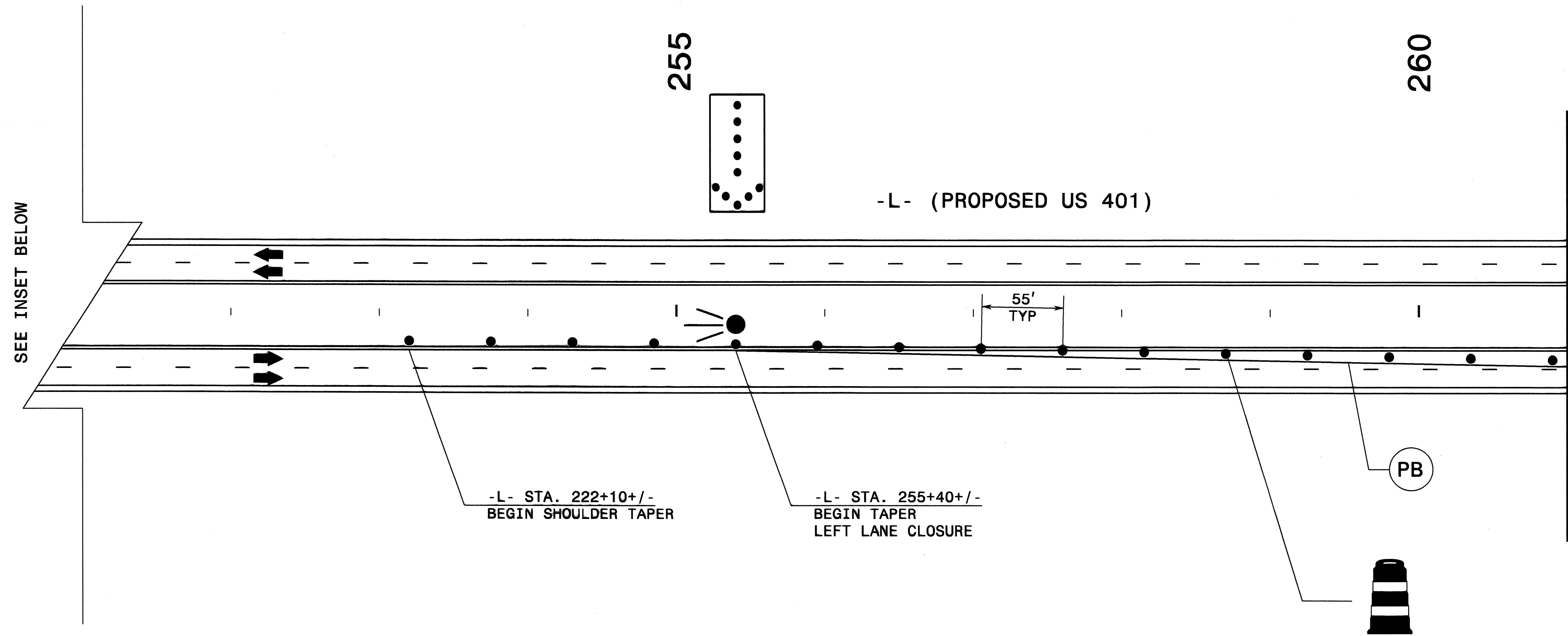
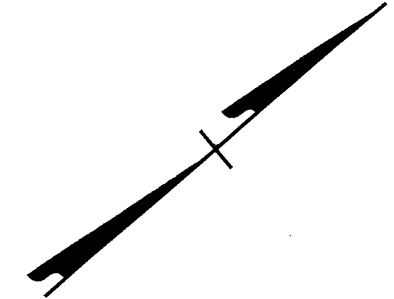
28-OCT-2010 14:38
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 sbjennings AT WZTC24731

APPROVED: _____ DATE: _____

Oct 29 2010

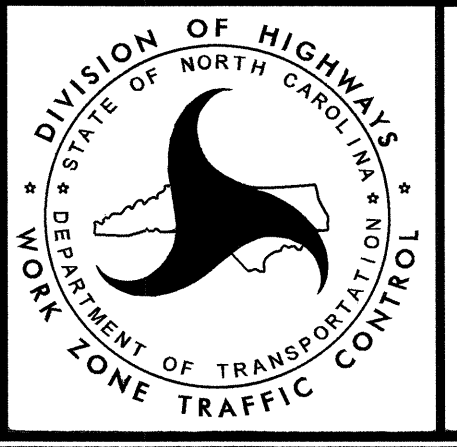


**AREA I
 PHASE II
 DETAIL**



INSET

APPROVED: DATE: *Oct 29, 2010*

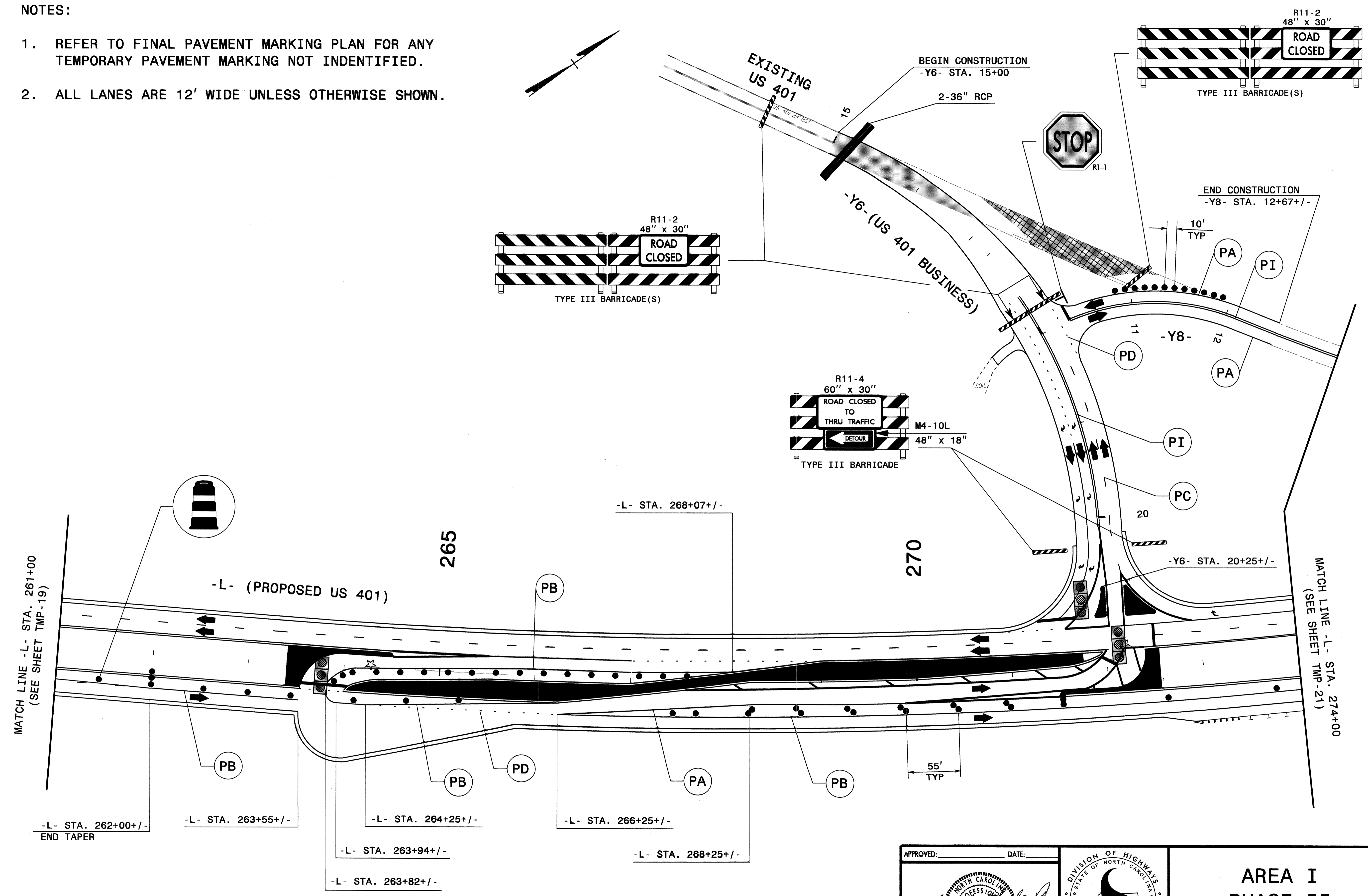


AREA I
PHASE II
DETAIL

28-OCT-2010 14:39 \\dot\dfsroot\0\NSPProj\TIP\Projects\R2814B\TrafficControl\TCP\R-2814B_TC_TMP_19.dgn sblennings AT WZTC24731

NOTES:

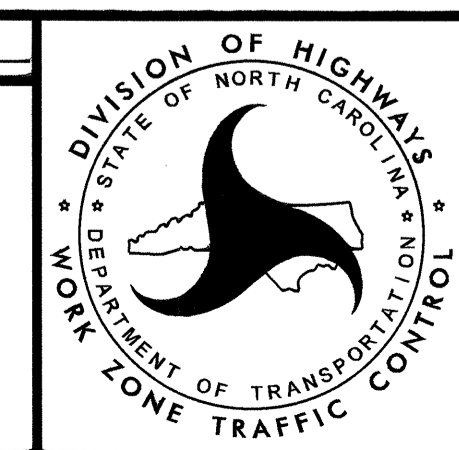
1. REFER TO FINAL PAVEMENT MARKING PLAN FOR ANY TEMPORARY PAVEMENT MARKING NOT IDENTIFIED.
2. ALL LANES ARE 12' WIDE UNLESS OTHERWISE SHOWN.



29-OCT-2010 08:21
 \\dot\dfsroot\NSP\proj\TrafficControl\TCP\R-2814B_TC_TMP-20.dgn
 sbjennings AT WZTC24731

APPROVED: _____ DATE: _____

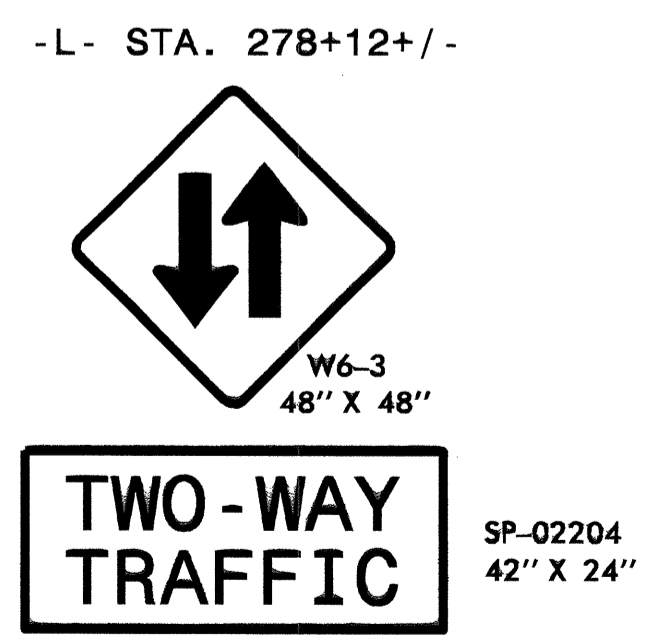
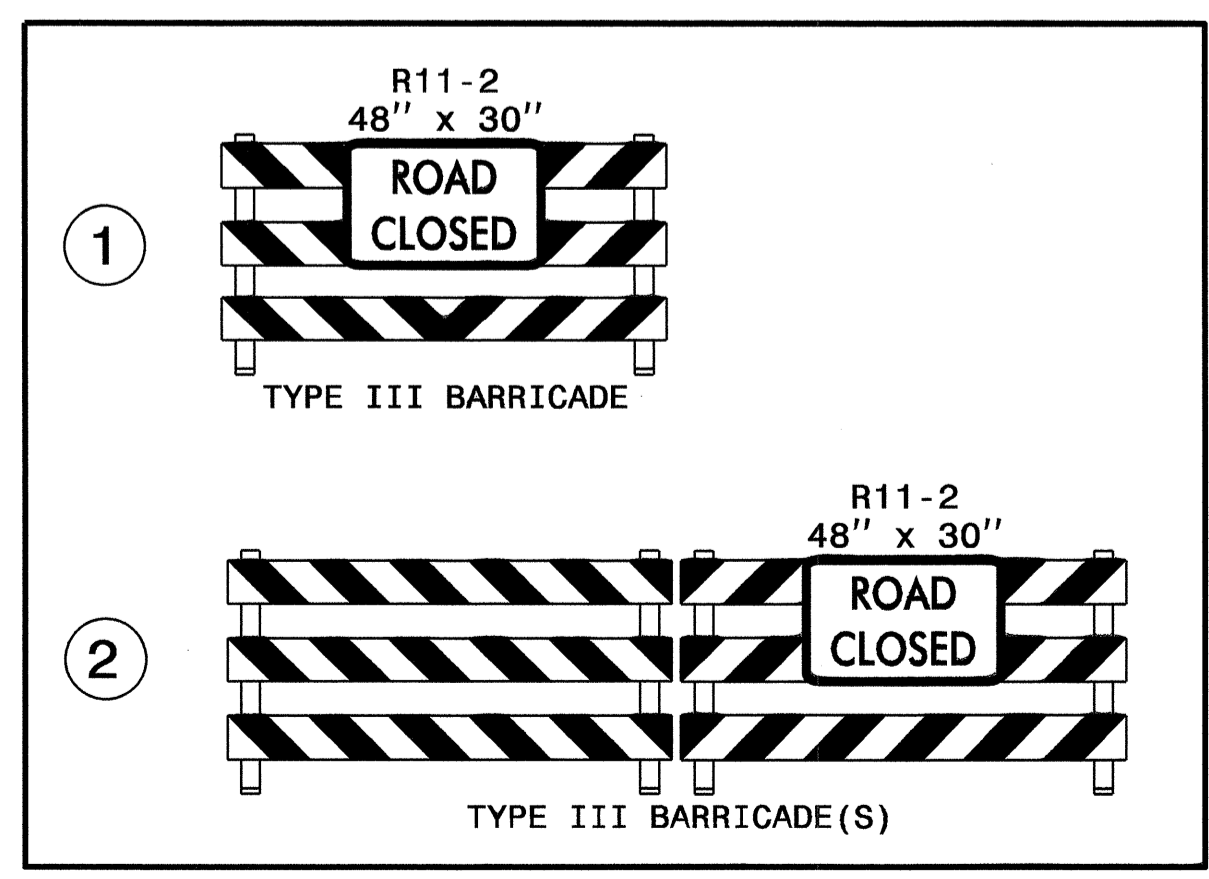
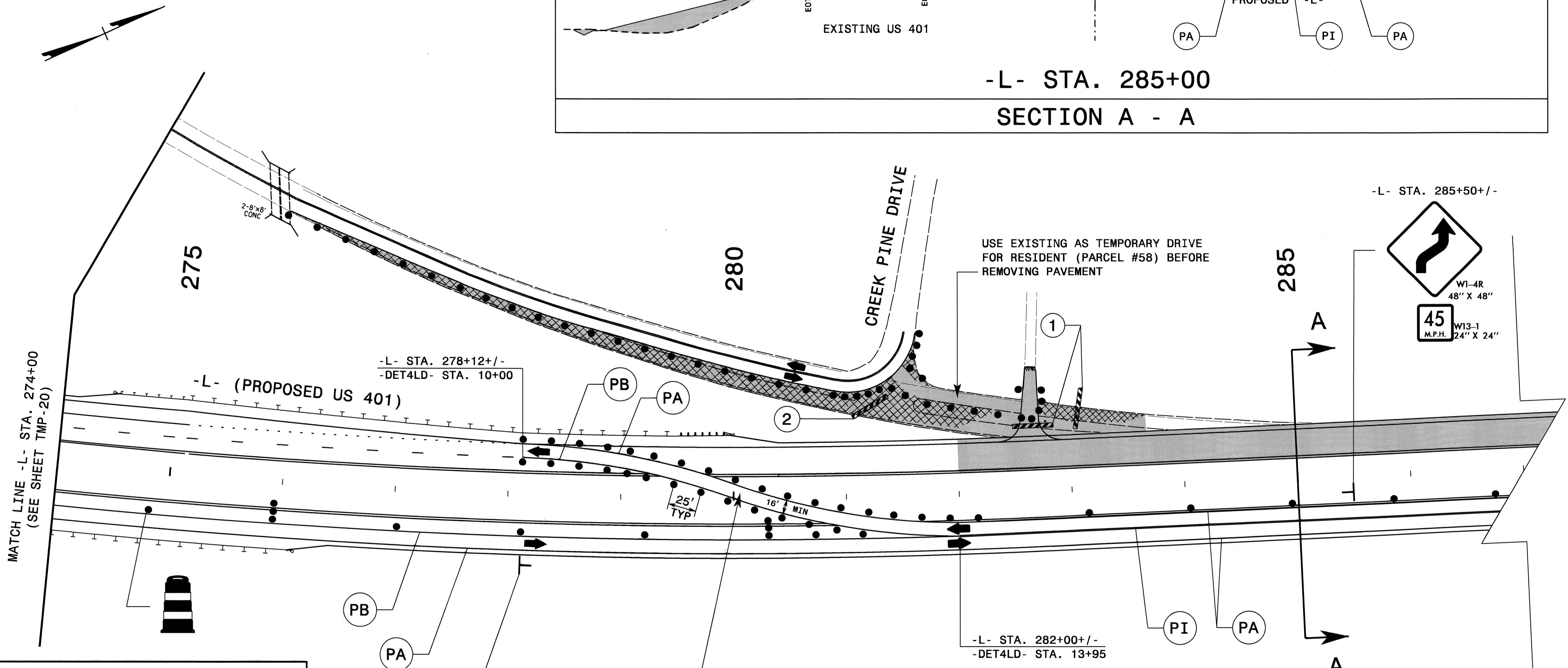
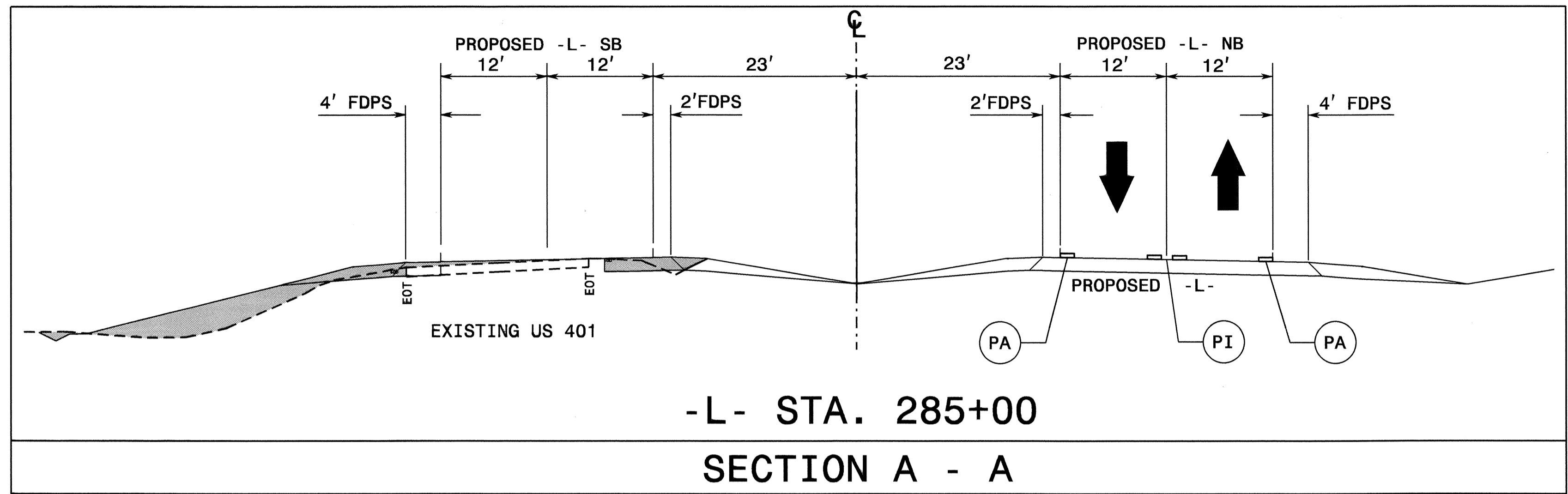
Joseph B. Smith
 SEAL 028380
 ENGINEER
 JOSEPH B. SMITH
 OCT 29 2010



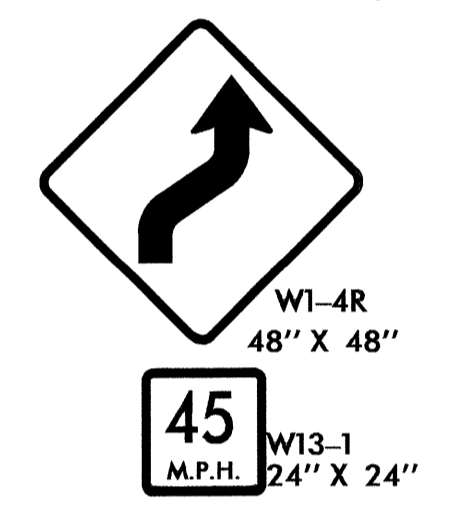
**AREA I
 PHASE II
 DETAIL**

NOTES:

1. REFER TO FINAL PAVEMENT MARKING PLAN FOR ANY TEMPORARY PAVEMENT MARKING NOT IDENTIFIED.
2. ALL LANES ARE 12' WIDE UNLESS OTHERWISE SHOWN.



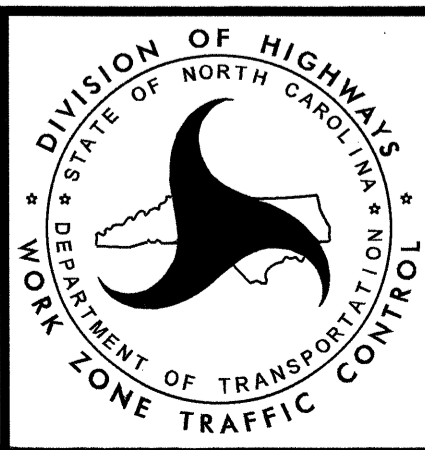
USE EXISTING AS TEMPORARY DRIVE FOR RESIDENT (PARCEL #58) BEFORE REMOVING PAVEMENT



APPROVED: _____ DATE: _____

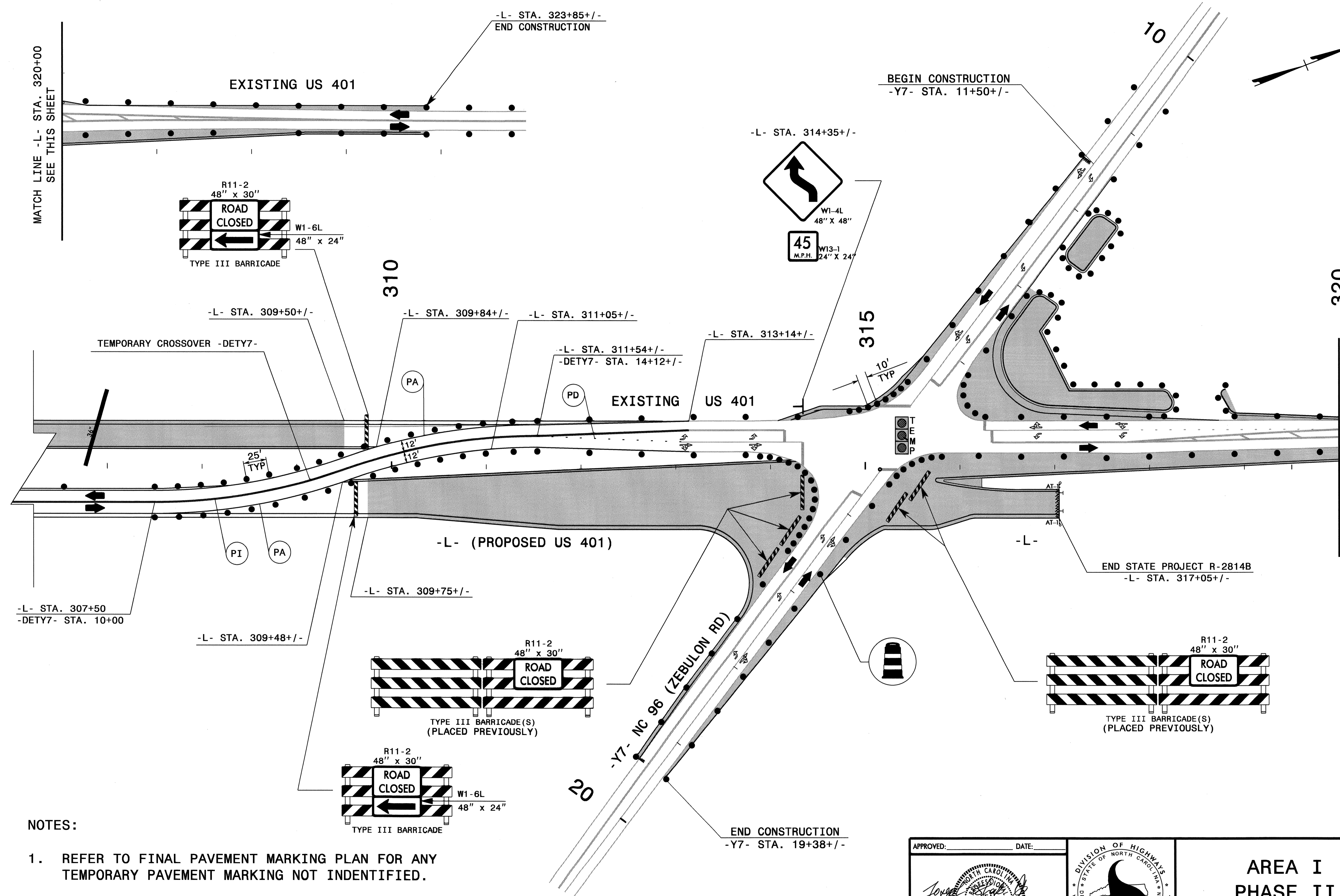
Joseph Ishak
SEAL
028380
ENGINEER
JOSEPH ISHAK

Oct 27, 2010



**AREA I
PHASE II
DETAIL**

28-OCT-2010 14:40 \\dot\dfsroot\NNSP\proj\IP\Projects-RAR2814B\TrafficControl\TCP\R-2814B_TC_TMP-21.dgn sbjennings AT WZTC2473

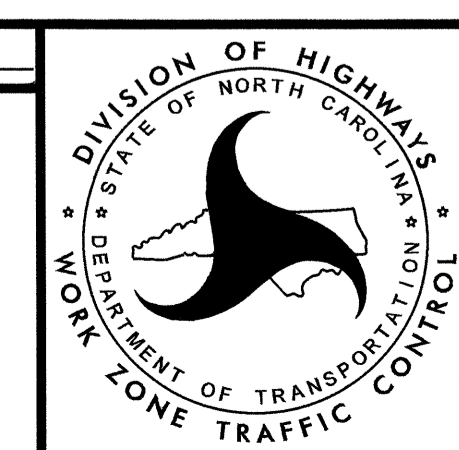


NOTES:

1. REFER TO FINAL PAVEMENT MARKING PLAN FOR ANY TEMPORARY PAVEMENT MARKING NOT IDENTIFIED.
2. ALL LANES ARE 12' WIDE UNLESS OTHERWISE SHOWN.

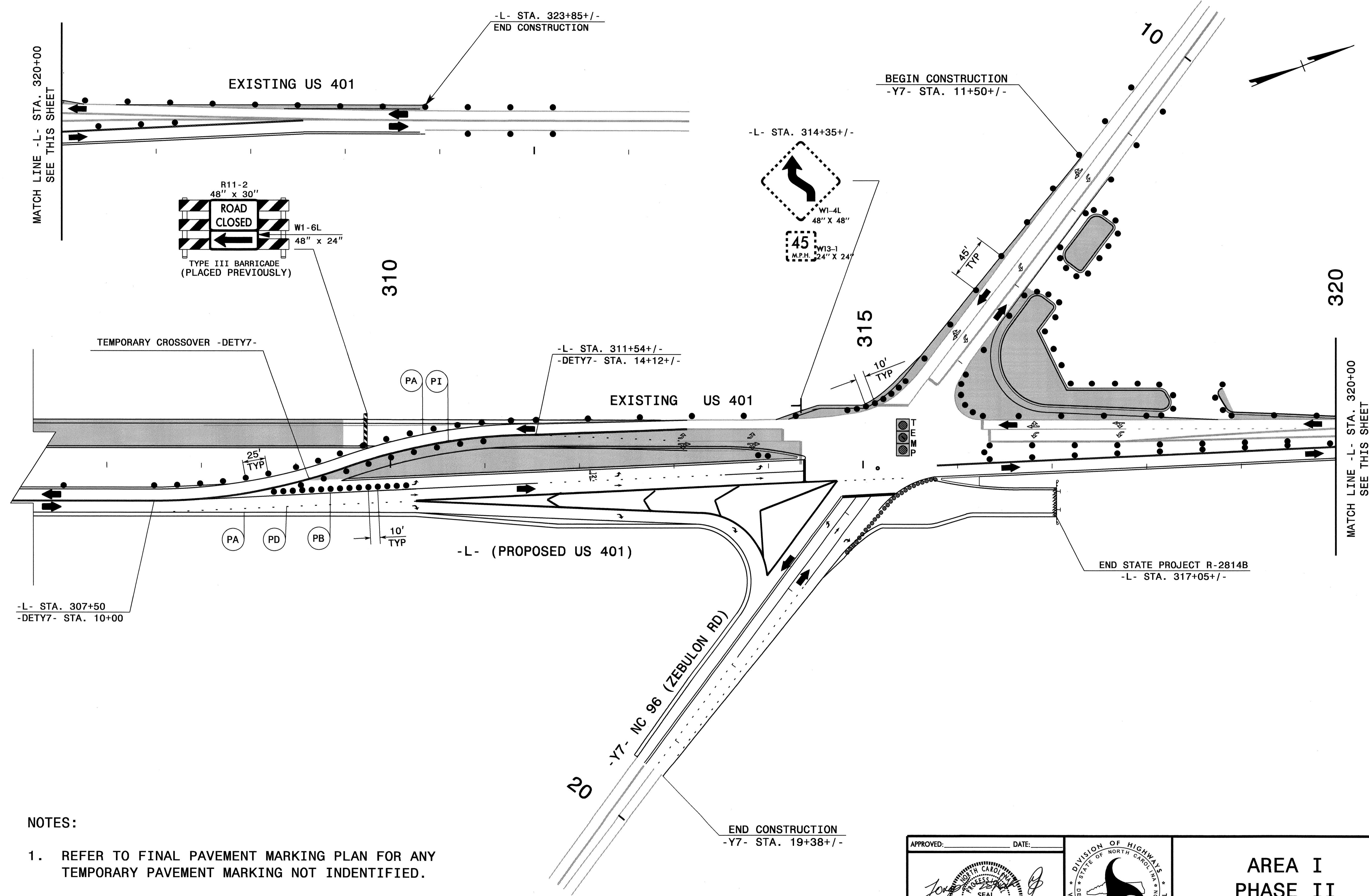
APPROVED: _____ DATE: _____

Joseph Shal...
 NORTH CAROLINA
 PROFESSIONAL ENGINEER
 SEAL
 028380
 JOSEPH SHAL...
 08/24/2009



**AREA I
 PHASE II
 DETAIL**

28-OCT-2010 14:41
 \\dot\dfsroot\0\NSPProj\TIPProj\Projects-R\2814B\TrafficControl\TCP\R-2814B_TC_TMP_22.dgn
 sblennings AT WZTC24731



NOTES:

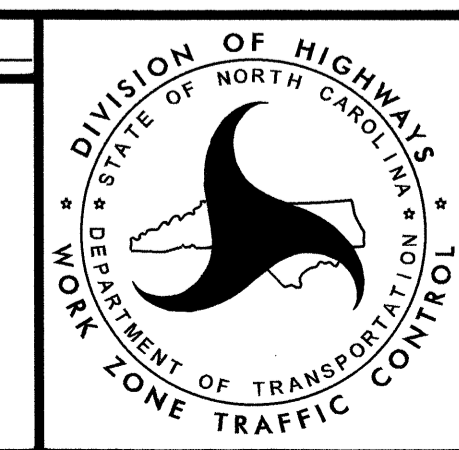
1. REFER TO FINAL PAVEMENT MARKING PLAN FOR ANY TEMPORARY PAVEMENT MARKING NOT IDENTIFIED.
2. ALL LANES ARE 12' WIDE UNLESS OTHERWISE SHOWN.

APPROVED: _____ DATE: _____

Joseph Ish...

SEAL
028380
ENGINEER
JOSEPH ISH...

Oct 29, 2016

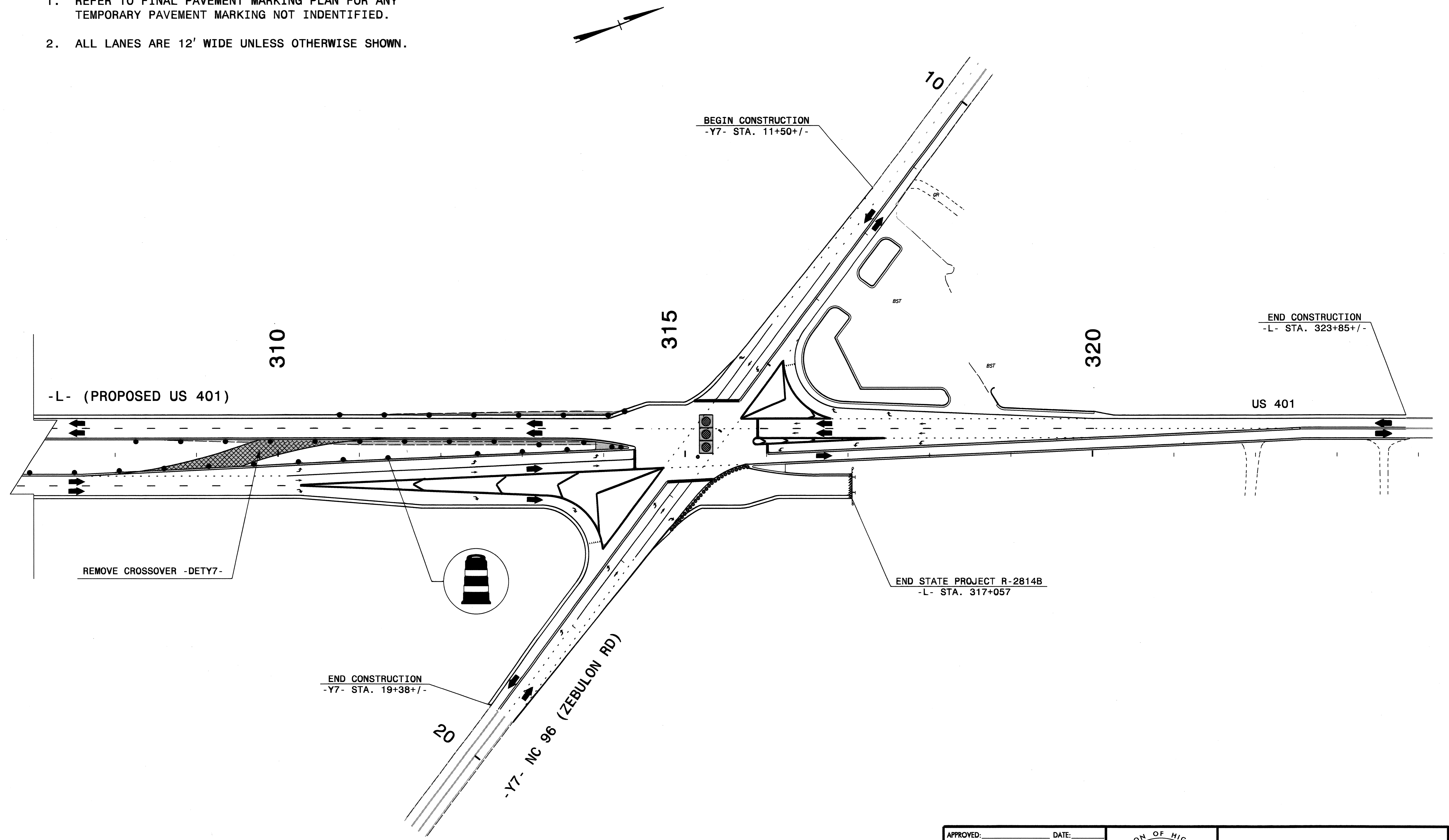


**AREA I
PHASE II
DETAIL**

28-OCT-2010 14:41
 \\dot\dfsroot\NNSP\proj\IP\Projects-RAR2814B\TrafficControl\TCP\R-2814B_TC_TMP-23.dgn
 sbjennings AT WZTC24731

NOTES:

1. REFER TO FINAL PAVEMENT MARKING PLAN FOR ANY TEMPORARY PAVEMENT MARKING NOT IDENTIFIED.
2. ALL LANES ARE 12' WIDE UNLESS OTHERWISE SHOWN.

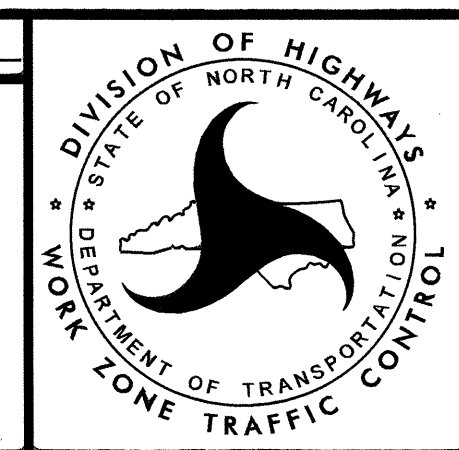


29-OCT-2010 09:04
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 SBJennings AT WZTC24131

APPROVED: _____ DATE: _____

Joseph Ishak
 028380
 ENGINEER
 JOSEPH ISHAK

Oct 29, 2010



AREA I
PHASE III
DETAIL

AREA II - PHASING

- 1) -Y2- (JONESVILLE ROAD) CANNOT BE CLOSED AT THE SAME TIME AS -Y3- (ROLESVILLE RD).
- 2) MAINTAIN ACCESS TO ALL RESIDENCES AND BUSINESSES AT ALL TIMES WITHIN THE PROJECT LIMITS, UNLESS OTHERWISE DIRECTED BY THE ENGINEER.
- 3) THE TRAFFIC CONTROL PLAN IS PHASED INTO AREAS. WORK MAY BE PERFORMED IN MORE THAN ONE AREA SIMULTANEOUSLY BUT SHALL PROGRESS IN EACH AREA THROUGH THE PHASE AND STEP REQUIREMENTS.
- 4) IN THE PHASING SHOWN BELOW, "FLAGGER" IS DEFINED AS RSD 1101.02, SHEET 1 OF 9.
- 5) COMPLETE AREA II, PHASE II BEFORE AREA I, PHASE I, STEP 12.

PHASE I

- STEP 1
- INSTALL ADVANCED WORK ZONE WARNING SIGNS ON -Y2- (JONESVILLE RD) AS REQUIRED IN PROJECT NOTES. (SEE SHEETS TMP-1B THROUGH TMP-1D AND TMP-2A)
- STEP 2
- AWAY FROM TRAFFIC, BEGIN CONSTRUCTION OF THE FOLLOWING: (SEE SHEET TMP-26 AND ROADWAY PLANS)
 - ALL DRAINAGE WORK REQUIRED IN AREA II AS DIRECTED BY THE ENGINEER.
 - -L- STA. 49+00+/- TO STA. 67+00+/-, UP TO BUT NOT INCLUDING THE FINAL LAYER OF SURFACE COURSE.
 - USING FLAGGERS, MAY BEGIN WIDENING AND WEDGING OF -Y2-. PLACE TEMPORARY PAVEMENT MARKINGS ON WEDGED AREAS IN EXISTING PATTERN BY END OF EACH WORK DAY. (SEE SHEET TMP-26)
 - INSTALL AND COVER ROAD CLOSURE SIGNS AND DETOUR SIGNS AS SHOWN ON SHEET TMP-27.

COMPLETE THE WORK REQUIRED IN PHASE I, STEPS 3 THROUGH 5 IN TWENTY-EIGHT (28) CONSECUTIVE CALENDAR DAYS. SEE INTERMEDIATE CONTRACT TIME AND LIQUIDATED DAMAGES.

- STEP 3
- UNCOVER ROAD CLOSURE SIGNS AND DETOUR SIGNS; CLOSE SR 2226 (JONESVILLE RD) AND DETOUR TRAFFIC OFFSITE TO COMPLETE THE FOLLOWING AWAY FROM TRAFFIC: (SEE SHEETS TMP-27, TMP-28 AND ROADWAY PLANS)
 - REMAINING DRAINAGE STRUCTURES.
 - COMPLETE WIDENING AND WEDGING -Y2- UP TO BUT NOT INCLUDING THE FINAL LAYER OF SURFACE COURSE.
- STEP 4
- CONSTRUCT CONCRETE ISLANDS AT INTERSECTION OF -Y2- AND -L-.
 - PLACE TEMPORARY PAVEMENT MARKING FOR PHASE II TRAFFIC PATTERN.
- STEP 5
- SIMULTANEOUSLY OPEN -Y2- (JONESVILLE RD) TO TEMPORARY TRAFFIC PATTERN AND PLACE CMSs WITH MESSAGE 'A' AS SHOWN ON SHEET TMP-28. REMOVE ROAD CLOSURE SIGNING AND DETOUR SIGNING.

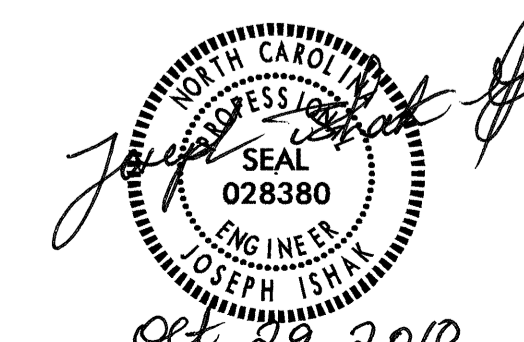
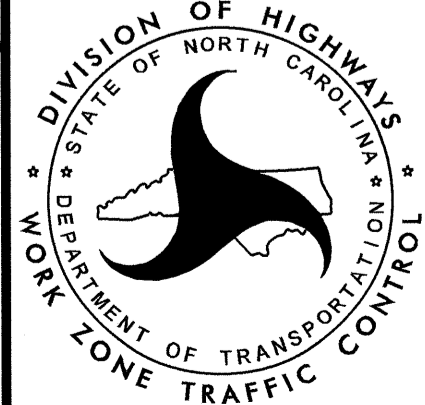
PHASE II

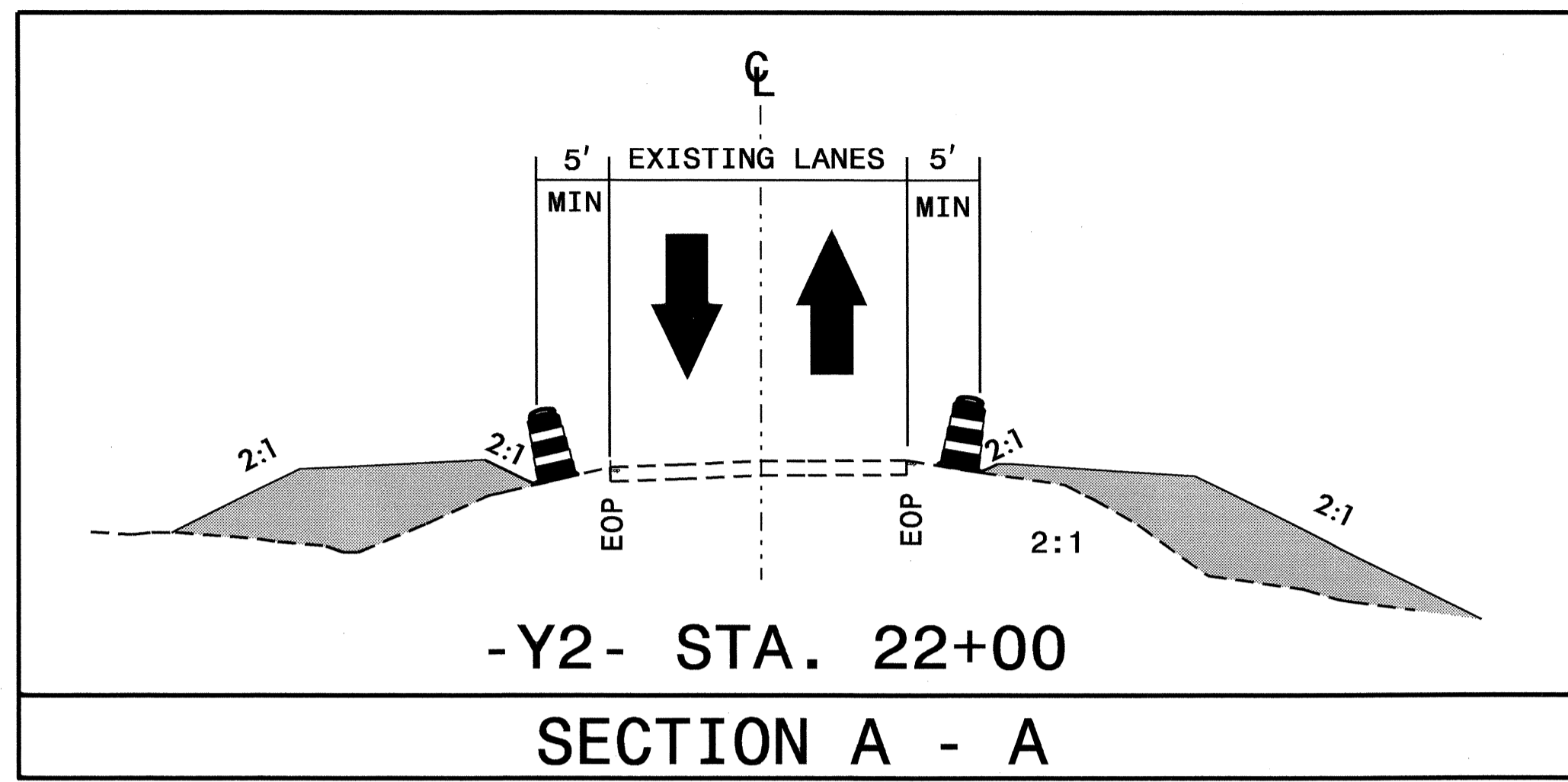
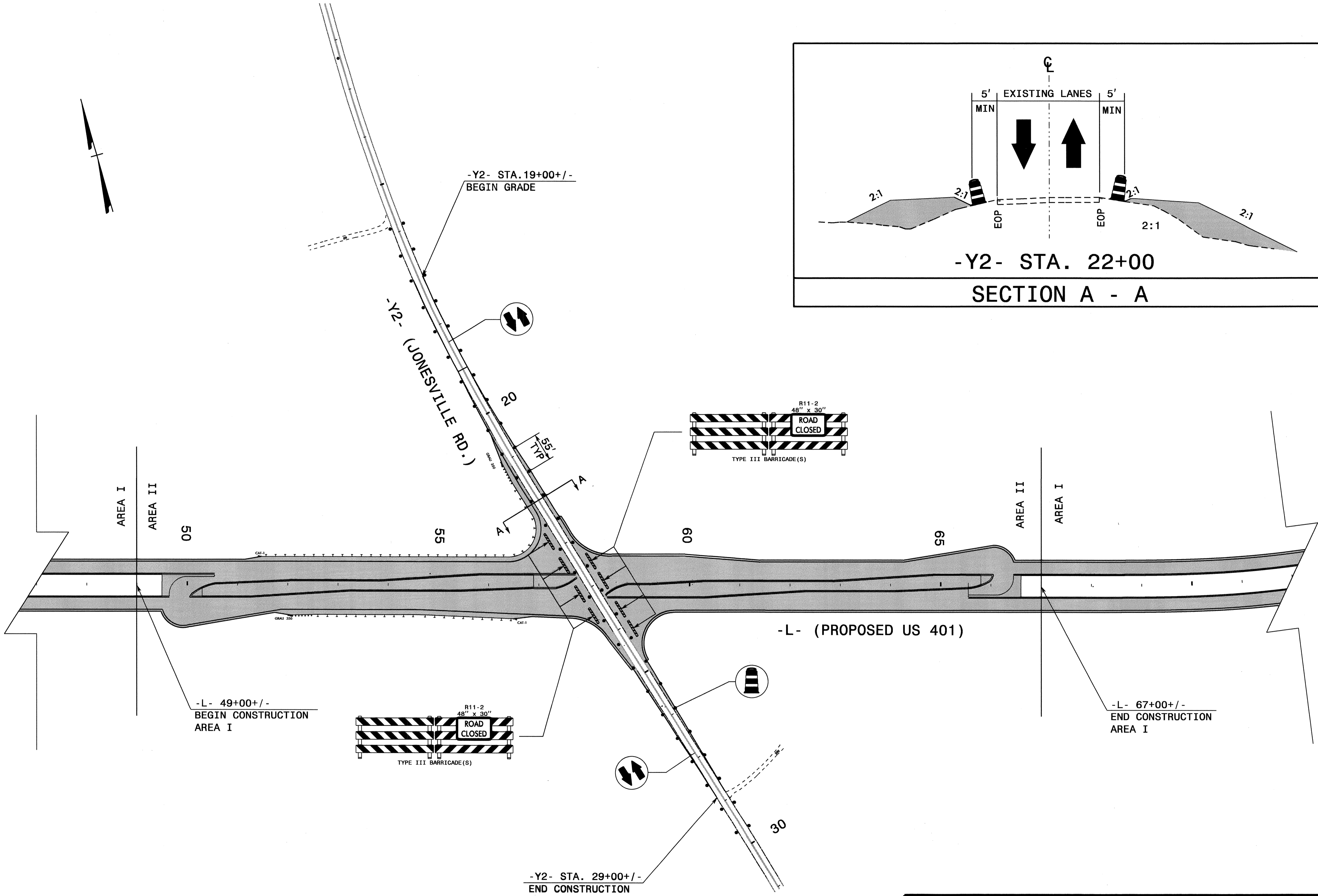
- STEP 1
- CHANGE CMSs TO MESSAGE 'B' ON -Y2- AS SHOWN ON SHEET TMP-28, SEVEN (7) DAYS PRIOR TO PHASE II, STEP 3.
- STEP 2
- USING FLAGGERS, COMPLETE THE FOLLOWING NO MORE THAN THREE (3) DAYS PRIOR TO AREA I, PHASE I, STEP 12:
 - PLACE TEMPORARY PAVEMENT MARKINGS IN THE FINAL TRAFFIC PATTERN AND REMOVE CONFLICTING PAVEMENT MARKINGS. (SEE FINAL PAVEMENT MARKINGS PLANS)
 - REINSTALL TRAFFIC CONTROL DEVICES AS SHOWN ON TMP-28.
- STEP 3
- OPEN -Y2- (JONESVILLE RD) TO TEMPORARY TRAFFIC PATTERN WITHIN AREA II AS SHOWN ON TMP-28 AND FINAL PAVEMENT MARKING PLANS. ACTIVATE CMS MESSAGE 'C' FOR SEVEN (7) DAYS.

PHASE III

- STEP 1
- REFER TO AREA I, PHASE III FOR REMAINING STEPS.

28 DAY ICT

APPROVED: _____ DATE: _____  <i>Oct 29, 2010</i>		<h2 style="margin: 0;">AREA II TEMPORARY TRAFFIC CONTROL PHASING</h2>
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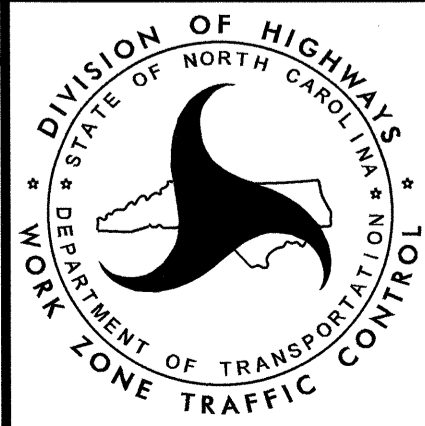
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 sbjennings AT WZTC24731

APPROVED: _____ DATE: _____

Joseph Shook

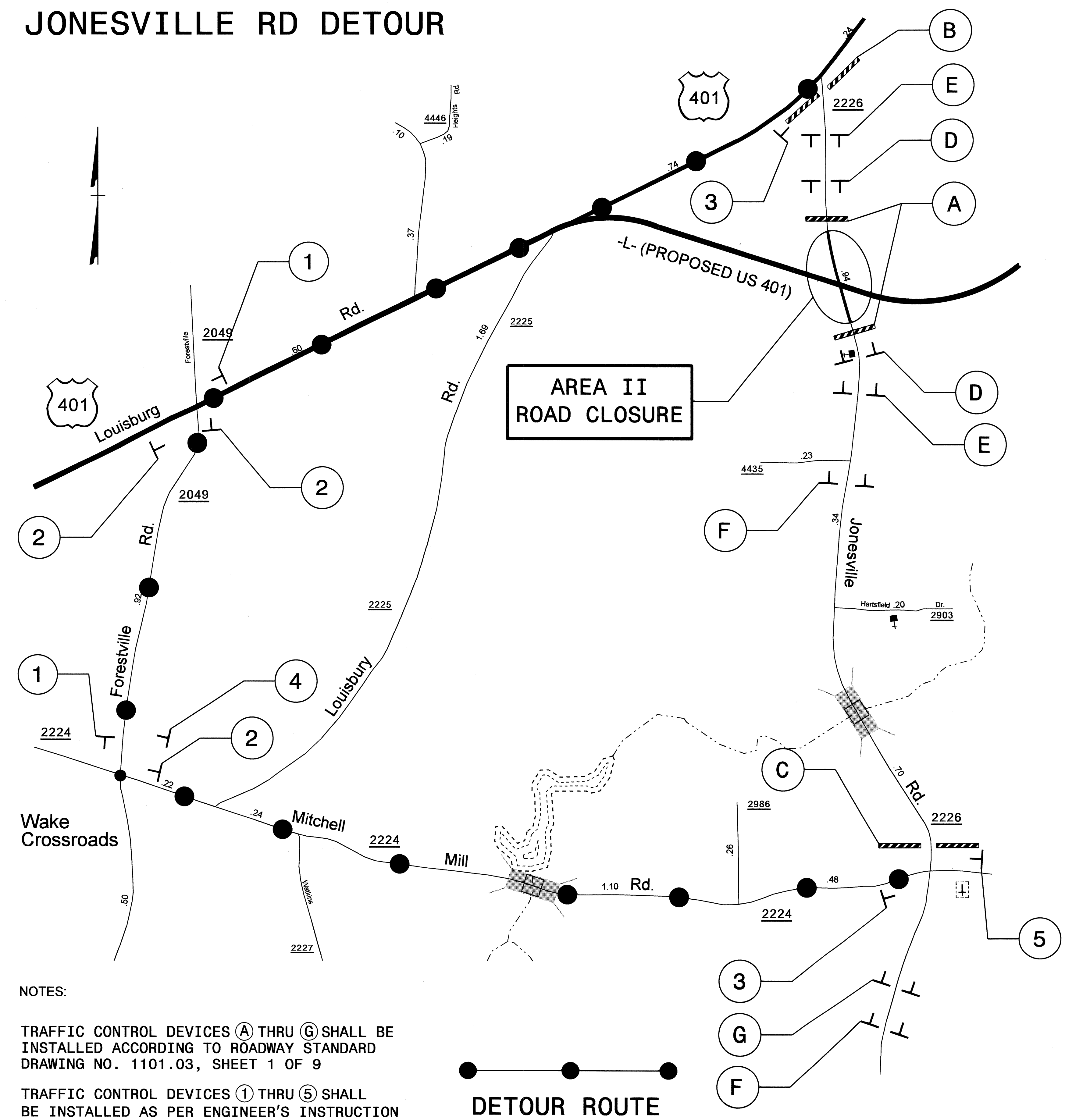
SEAL
028380
ENGINEER
JOSEPH SHOOK
NORTH CAROLINA

Oct 29, 2010



AREA II
PHASE I

JONESVILLE RD DETOUR



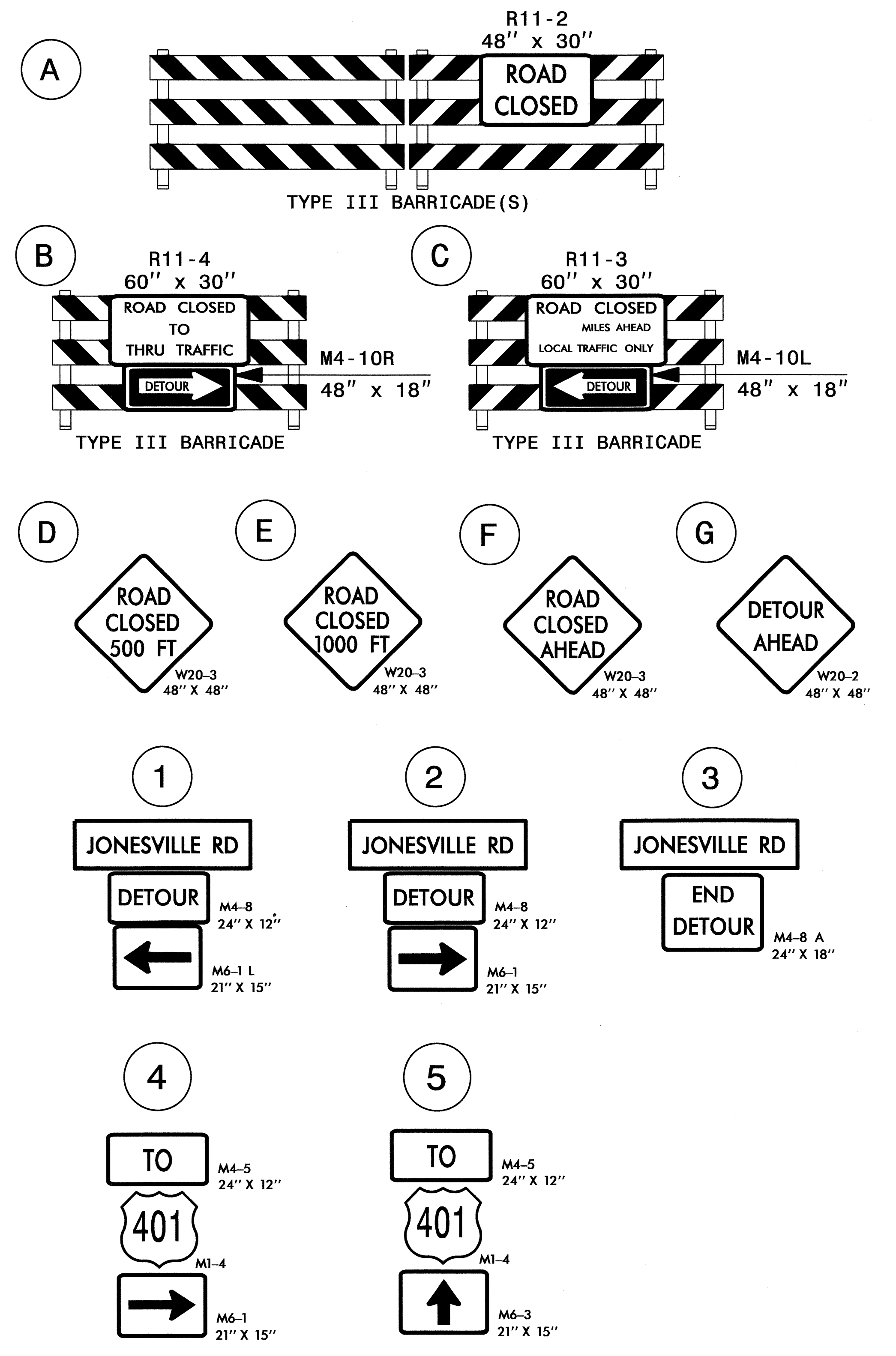
**AREA II
ROAD CLOSURE**

DETOUR ROUTE

NOTES:

TRAFFIC CONTROL DEVICES (A) THRU (G) SHALL BE INSTALLED ACCORDING TO ROADWAY STANDARD DRAWING NO. 1101.03, SHEET 1 OF 9

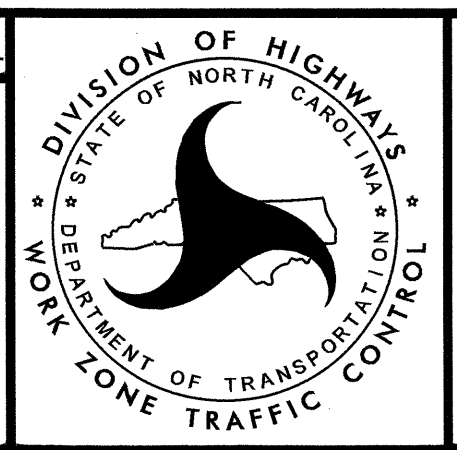
TRAFFIC CONTROL DEVICES (1) THRU (5) SHALL BE INSTALLED AS PER ENGINEER'S INSTRUCTION



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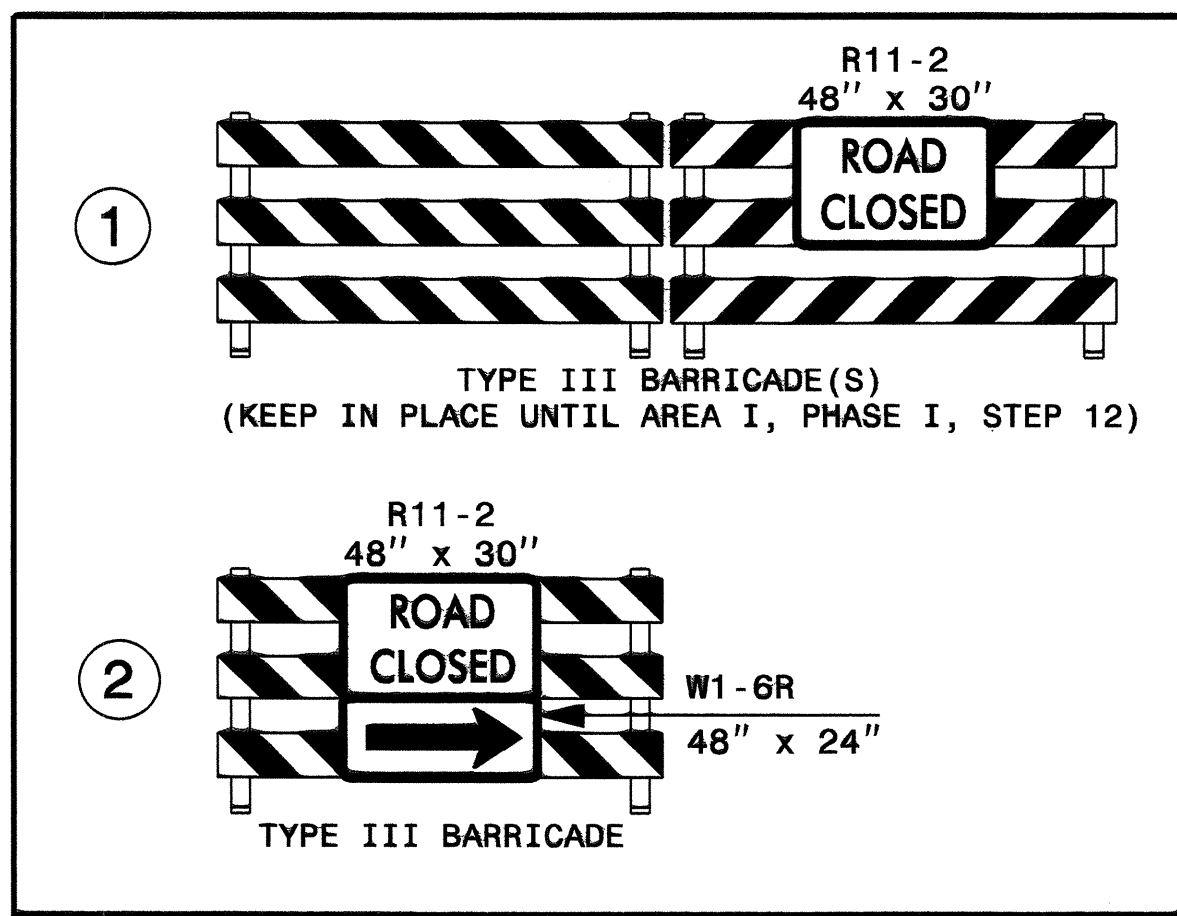
APPROVED: _____ DATE: _____

 Oct 29, 2010



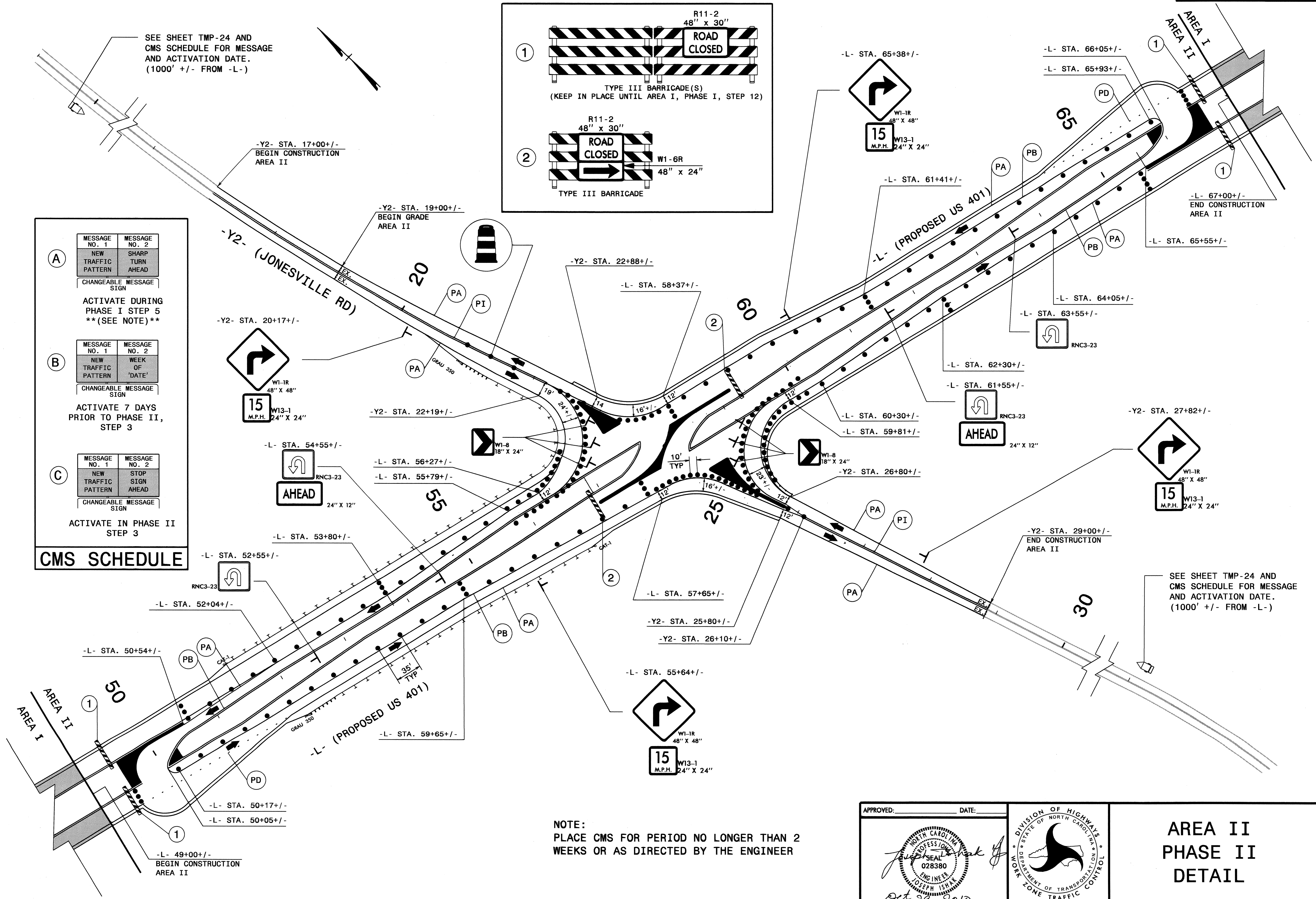
**AREA II
JONESVILLE RD (-Y2-)
OFFSITE DETOUR**

SEE SHEET TMP-24 AND CMS SCHEDULE FOR MESSAGE AND ACTIVATION DATE. (1000' +/- FROM -L-)



<p>A</p> <table border="1"> <tr> <th>MESSAGE NO. 1</th> <th>MESSAGE NO. 2</th> </tr> <tr> <td>NEW TRAFFIC PATTERN</td> <td>SHARP TURN AHEAD</td> </tr> </table> <p>CHANGEABLE MESSAGE SIGN</p> <p>ACTIVATE DURING PHASE I STEP 5 ** (SEE NOTE) **</p>		MESSAGE NO. 1	MESSAGE NO. 2	NEW TRAFFIC PATTERN	SHARP TURN AHEAD
MESSAGE NO. 1	MESSAGE NO. 2				
NEW TRAFFIC PATTERN	SHARP TURN AHEAD				
<p>B</p> <table border="1"> <tr> <th>MESSAGE NO. 1</th> <th>MESSAGE NO. 2</th> </tr> <tr> <td>NEW TRAFFIC PATTERN</td> <td>WEEK OF DATE</td> </tr> </table> <p>CHANGEABLE MESSAGE SIGN</p> <p>ACTIVATE 7 DAYS PRIOR TO PHASE II, STEP 3</p>		MESSAGE NO. 1	MESSAGE NO. 2	NEW TRAFFIC PATTERN	WEEK OF DATE
MESSAGE NO. 1	MESSAGE NO. 2				
NEW TRAFFIC PATTERN	WEEK OF DATE				
<p>C</p> <table border="1"> <tr> <th>MESSAGE NO. 1</th> <th>MESSAGE NO. 2</th> </tr> <tr> <td>NEW TRAFFIC PATTERN</td> <td>STOP SIGN AHEAD</td> </tr> </table> <p>CHANGEABLE MESSAGE SIGN</p> <p>ACTIVATE IN PHASE II STEP 3</p>		MESSAGE NO. 1	MESSAGE NO. 2	NEW TRAFFIC PATTERN	STOP SIGN AHEAD
MESSAGE NO. 1	MESSAGE NO. 2				
NEW TRAFFIC PATTERN	STOP SIGN AHEAD				

CMS SCHEDULE



NOTE:
PLACE CMS FOR PERIOD NO LONGER THAN 2 WEEKS OR AS DIRECTED BY THE ENGINEER

APPROVED: DATE: Oct 24, 2010

DIVISION OF HIGHWAYS
STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION
WORK ZONE TRAFFIC CONTROL

**AREA II
PHASE II
DETAIL**

01-NOV-2010 10:58
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 sblennings AT WTC244731

AREA III - PHASING

- 1) -Y3- (ROLESVILLE ROAD) CANNOT BE CLOSED AT THE SAME TIME AS -Y2- (JONESVILLE RD) OR -Y5- (PULLEYTOWN RD).
- 2) MAINTAIN ACCESS TO ALL RESIDENCES AND BUSINESSES AT ALL TIMES WITHIN THE PROJECT LIMITS, UNLESS OTHERWISE DIRECTED BY THE ENGINEER.
- 3) THE TRAFFIC CONTROL PLAN IS PHASED INTO AREAS. WORK MAY BE PERFORMED IN MORE THAN ONE AREA SIMULTANEOUSLY BUT SHALL PROGRESS IN EACH AREA THROUGH THE PHASE AND STEP REQUIREMENTS.
- 4) IN THE PHASING SHOWN BELOW, "FLAGGER" IS DEFINED AS RSD 1101.02, SHEET 1 OF 9.
- 5) COMPLETE AREA III, PHASE II BEFORE AREA I, PHASE I, STEP 12.

PHASE I

- STEP 1
- INSTALL ADVANCED WORK ZONE WARNING SIGNS ON -Y3- (ROLESVILLE RD) AS REQUIRED IN PROJECT NOTES. (SEE SHEETS TMP-1B THROUGH TMP-1D AND TMP-2A)
- STEP 2
- AWAY FROM TRAFFIC BEGIN CONSTRUCTION OF THE FOLLOWING: (SEE SHEET TMP-30 AND ROADWAY PLANS)
 - DRAINAGE WORK REQUIRED IN AREA III AS DIRECTED BY THE ENGINEER.
 - -L- STA. 154+00+/- TO STA. 172+00+/-, UP TO BUT NOT INCLUDING THE FINAL LAYER OF SURFACE COURSE.
 - AWAY FROM TRAFFIC AND USING FLAGGERS, CONSTRUCT -Y4- AND TIE-IN AT -Y3-, UP TO BUT NOT INCLUDING THE FINAL SURFACE COURSE. (SEE TMP-30)
 - USING FLAGGERS, MAY BEGIN WIDENING AND WEDGING OF -Y3-. (SEE SHEET TMP-30)
- STEP 3
- USING FLAGGERS, TIE-IN -Y4- TO EXISTING SR 2306 (CENTURY FARM RD) AND PLACE TEMPORARY PAVEMENT MARKINGS IN THE FINAL PATTERN. CLOSE SR 2306 (CENTURY FARM RD) FROM -Y3- TO PROPOSED "AT-1" GUARDRAIL AND OPEN -Y4- TO FINAL PATTERN. (SEE TMP-31)
- STEP 4
- USING FLAGGERS, AS NECESSARY, COMPLETE REMAINING WORK ON SR 2306 (CENTURY FARM RD). (SEE TMP-31)
 - INSTALL AND COVER ROAD CLOSURE SIGNS AND DETOUR SIGNS AS SHOWN ON SHEET TMP-32.
 - PLACE CMSs AS SHOWN ON TMP-33, ACTIVATE MESSAGE 'A' THREE (3) DAYS PRIOR TO PHASE I, STEP 5.

COMPLETE THE WORK REQUIRED IN PHASE I, STEPS 5 AND 6 BETWEEN 10:00 PM FRIDAY TO 6:00 AM THE FOLLOWING MONDAY. SEE INTERMEDIATE CONTRACT TIME AND LIQUIDATED DAMAGES.

- STEP 5
- UNCOVER ROAD CLOSURE SIGNS AND DETOUR SIGNS, CLOSE -Y3- (ROLESVILLE RD) AND DETOUR TRAFFIC OFFSITE AS SHOWN ON TMP-32.
 - AWAY FROM TRAFFIC INSTALL 1-36" RCP (#96). (SEE ROADWAY PLANS)
- STEP 6
- OPEN -Y3- (ROLESVILLE RD) TO EXISTING TRAFFIC PATTERN. COVER ROAD CLOSURE AND DETOUR SIGNS.
 - DEACTIVATE CMSs.
- STEP 7
- USING FLAGGERS, COMPLETE WIDENING AND WEDGING OF -Y3- UP TO BUT NOT INCLUDING THE FINAL SURFACE LAYER. (SEE TMP-31) PLACE TEMPORARY PAVEMENT MARKINGS IN ORIGINAL PATTERN.
 - AWAY FROM TRAFFIC, COMPLETE CONSTRUCTION OF THE FOLLOWING: (SEE TMP-31 AND ROADWAY PLANS)
 - DRAINAGE WORK REQUIRED IN AREA III AS DIRECTED BY THE ENGINEER.
 - -L- STA. 154+00+/- TO STA. 172+00+/- UP TO BUT NOT INCLUDING THE FINAL LAYER OF SURFACE COURSE.
 - MAY BEGIN SIGNAL INSTALLATION.
 - ACTIVATE MESSAGE 'A' THREE (3) DAYS PRIOR TO PHASE I, STEP 8. (SEE TMP-33)

56 HR. ICT

COMPLETE THE WORK REQUIRED IN PHASE I, STEPS 8 AND 9 BETWEEN 10:00 PM FRIDAY TO 6:00 AM THE FOLLOWING MONDAY. SEE INTERMEDIATE CONTRACT TIME AND LIQUIDATED DAMAGES.

- STEP 8
- UNCOVER ROAD CLOSURE SIGNS AND DETOUR SIGNS, CLOSE -Y3- (ROLESVILLE RD) AND DETOUR TRAFFIC OFFSITE. COMPLETE THE FOLLOWING AWAY FROM TRAFFIC: (SEE SHEETS TMP-32, TMP-33 AND ROADWAY PLANS)
 - DROP INLETS #417 AND #420 WITH TRAFFIC BEARING GRATES AND 15" RCP.
 - TEMPORARY PAVEMENT MARKING IN PHASE II PATTERN.
- STEP 9
- SIMULTANEOUSLY OPEN -Y3- (ROLESVILLE RD) TO TEMPORARY TRAFFIC PATTERN AND CHANGE CMSs TO MESSAGE 'B' AS SHOWN ON SHEET TMP-33. REMOVE ROAD CLOSURE SIGNING AND DETOUR SIGNING.

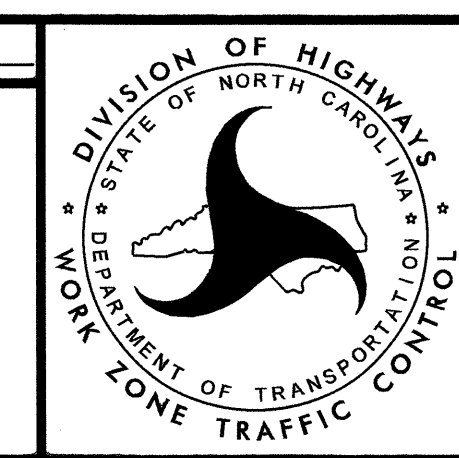
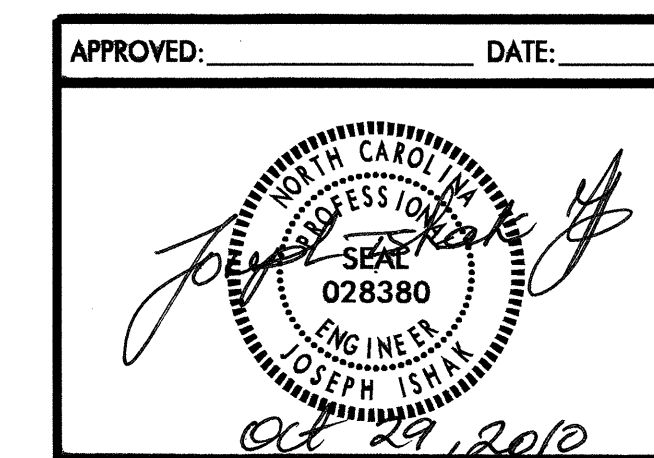
PHASE II

- STEP 1
- USING FLAGGERS, AS NECESSARY, CONSTRUCT CONCRETE ISLANDS AT INTERSECTION OF -Y3- AND -L-.
 - COMPLETE FINAL SIGNALS AND COVER SIGNAL HEADS.
- STEP 2
- ACTIVATE CMSs TO MESSAGE 'C' ON -Y3- AS SHOWN ON SHEET TMP-33, SEVEN (7) DAYS PRIOR TO STEP 3 (-Y3- TO FINAL PATTERN) AND AREA I, PHASE I, STEP 12.
- STEP 3
- USING FLAGGERS, COMPLETE THE FOLLOWING NO MORE THAN THREE (3) DAYS PRIOR TO AREA I, PHASE I, STEP 12:
 - PLACE TEMPORARY PAVEMENT MARKINGS IN THE FINAL TRAFFIC PATTERN AND REMOVE CONFLICTING PAVEMENT MARKINGS. (SEE FINAL PAVEMENT MARKINGS PLANS)
 - REINSTALL TRAFFIC CONTROL DEVICES AS SHOWN ON TMP-33.
 - UNCOVER SIGNAL HEADS AND ACTIVATE IN YELLOW FLASH MODE THREE (3) DAYS PRIOR TO OPENING -Y3- TO AREA I, PHASE II TRAFFIC PATTERN.
- STEP 4
- OPEN -Y3- (ROLESVILLE RD) TO FINAL TRAFFIC PATTERN WITHIN AREA II USING BARRICDES, AS SHOWN ON SHEET TMP-33 AND FINAL PAVEMENT MARKING PLANS. ACTIVATE CMS MESSAGE 'D' FOR SEVEN (7) DAYS.

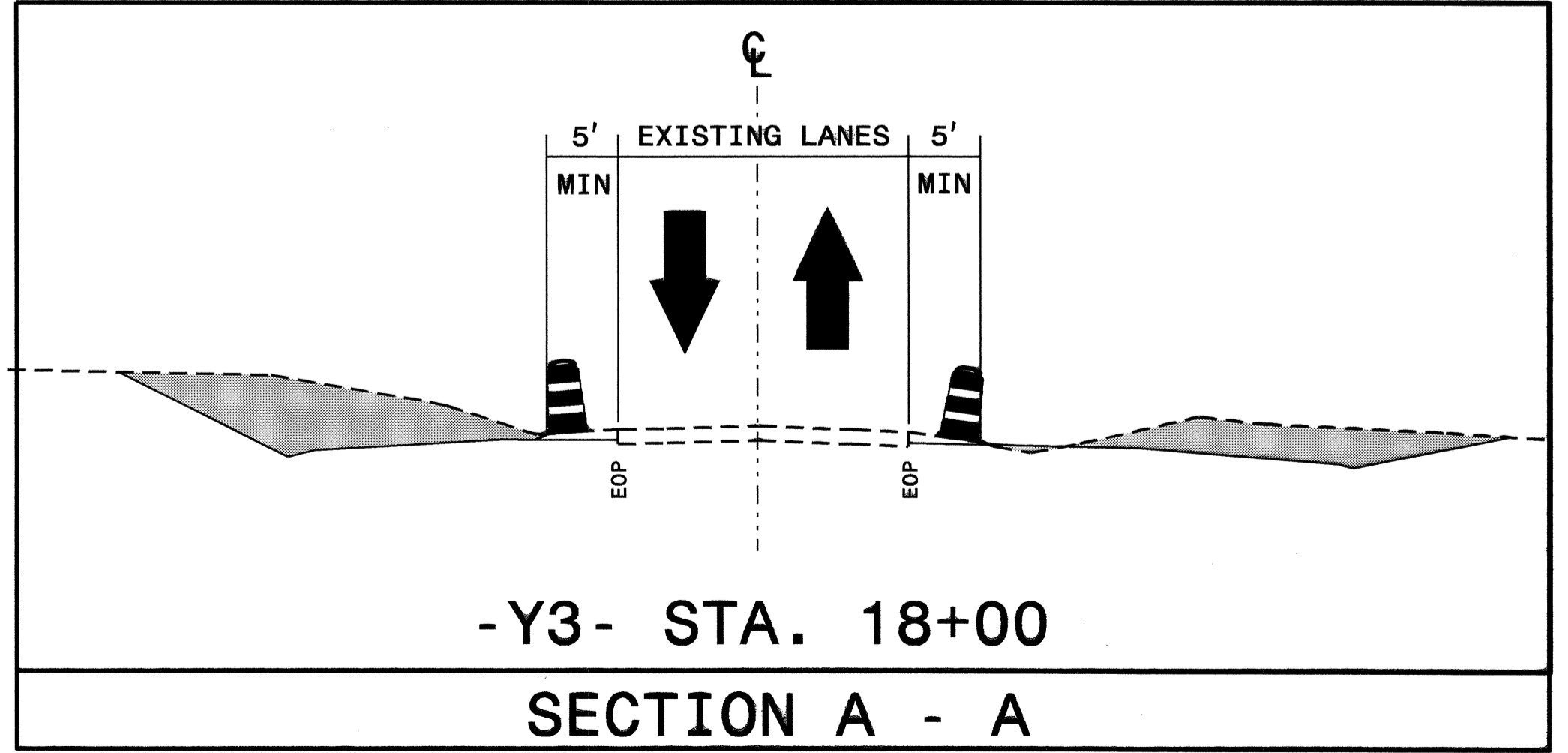
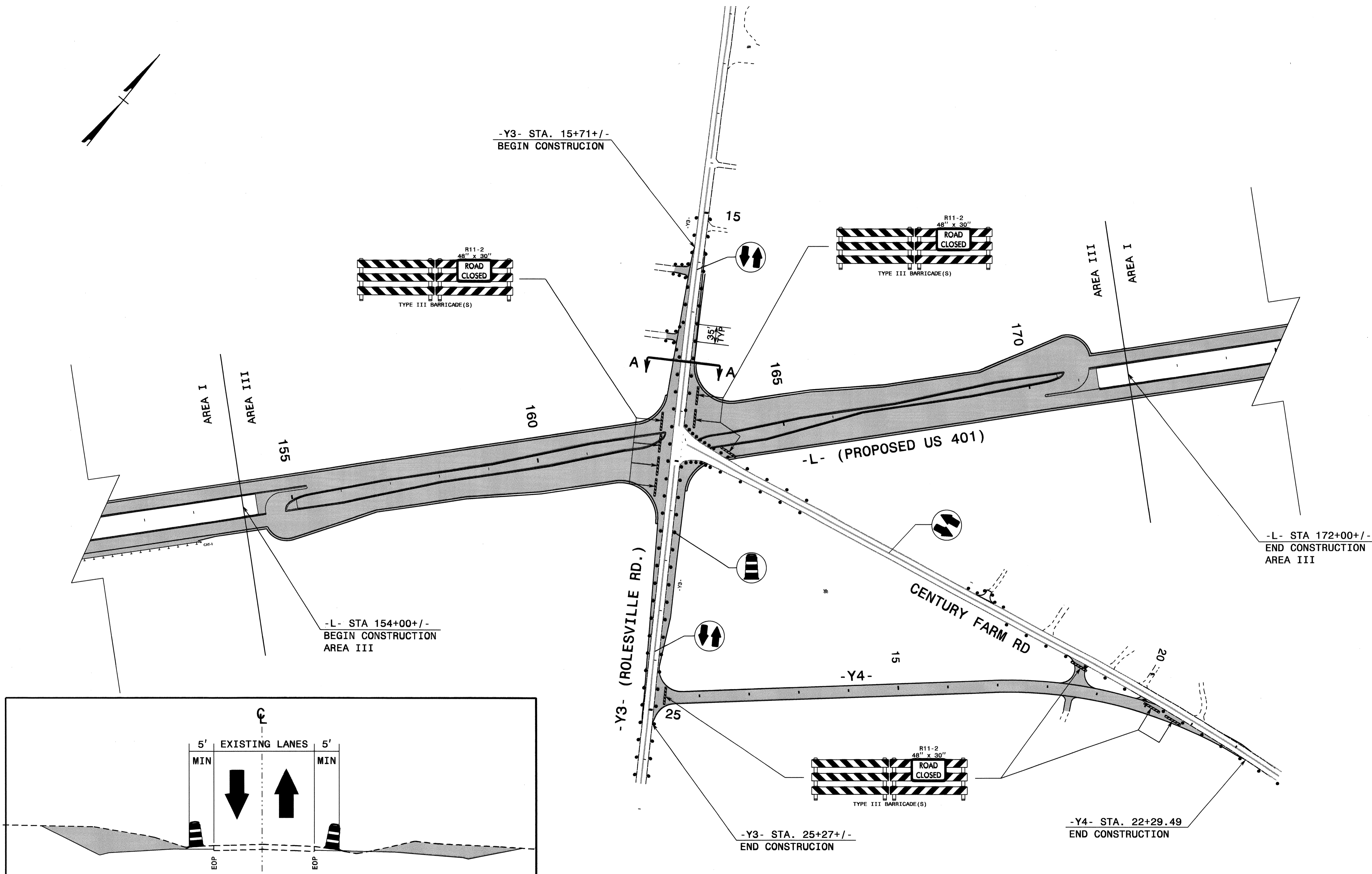
PHASE III

- STEP 1
- REFER TO AREA I, PHASE III FOR REMAINING STEPS.

56 HR. ICT

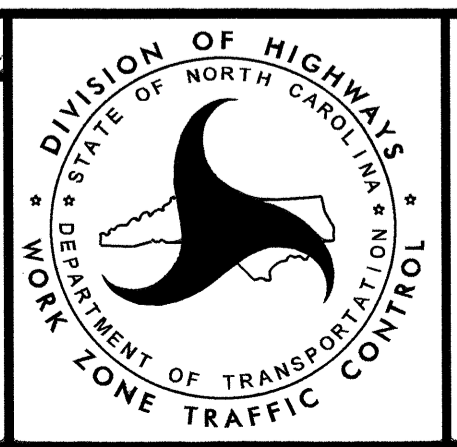


AREA III
TEMPORARY TRAFFIC
CONTROL PHASING



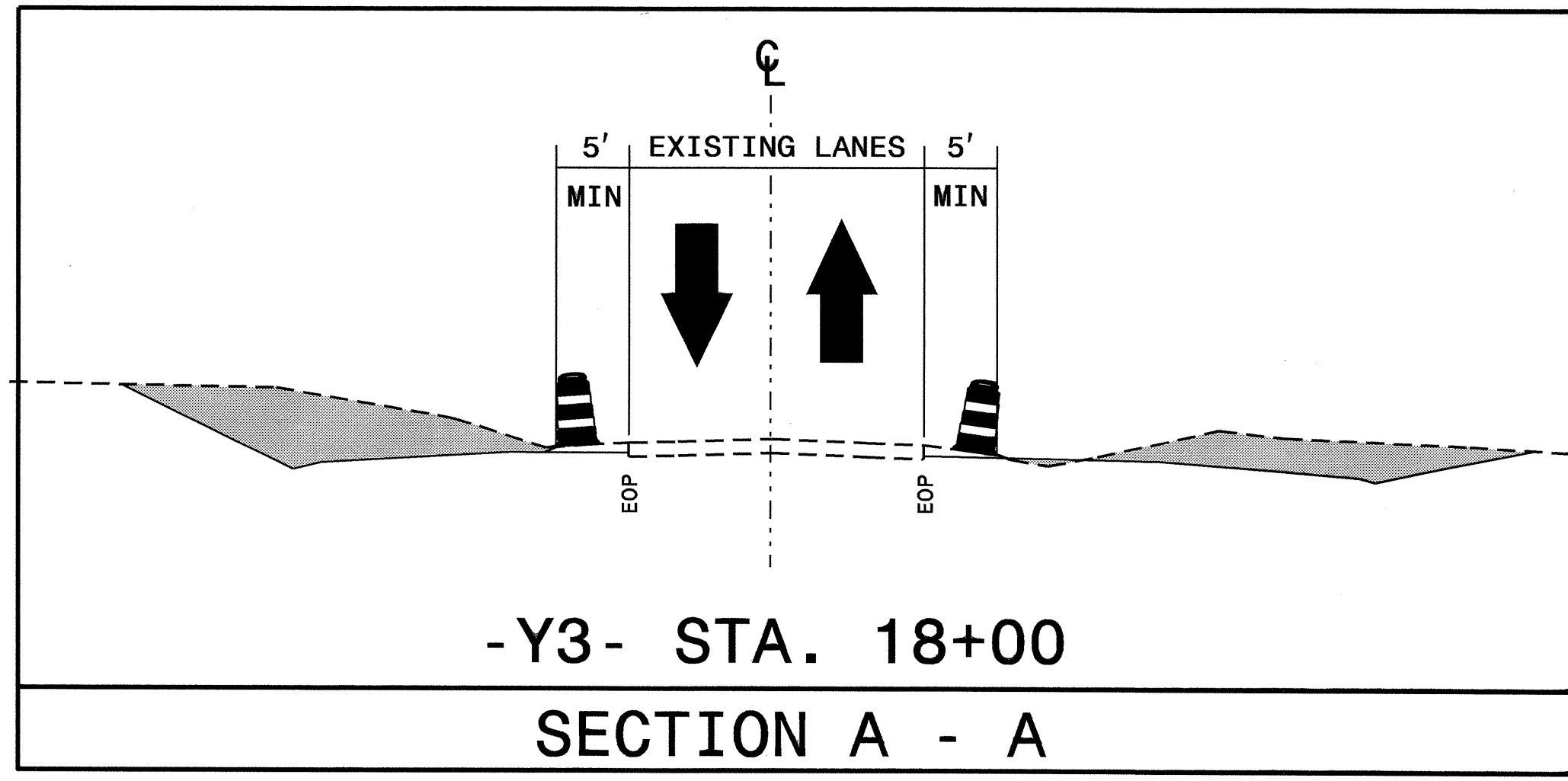
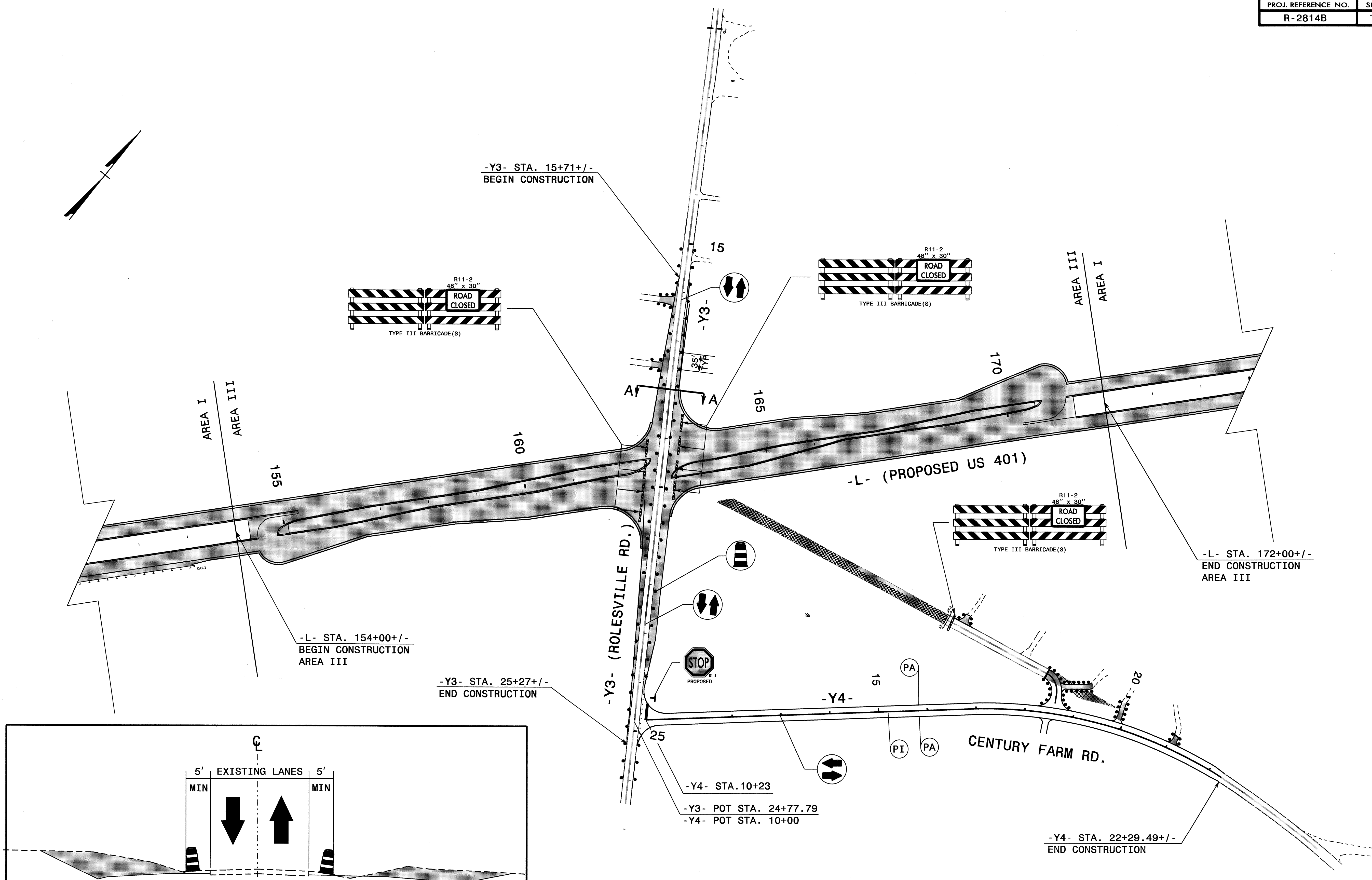
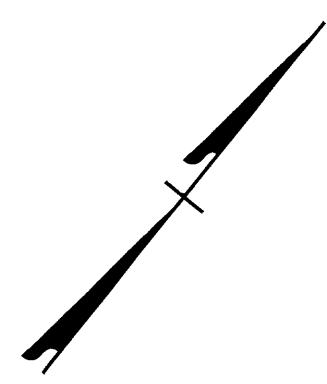
APPROVED: _____ DATE: _____

Joseph Istiak
 PROFESSIONAL SEAL
 028380
 ENGINEER
 JOSEPH ISTIAK
 OCT 29, 2010



**AREA III
 PHASE I**

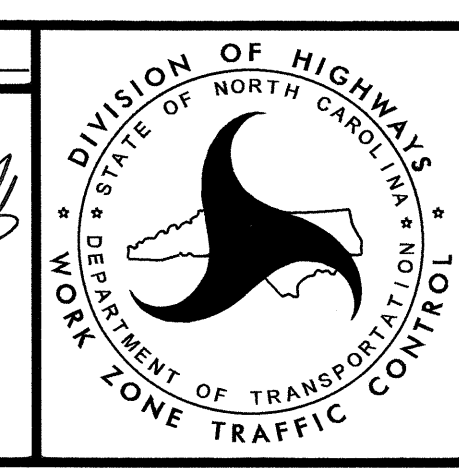
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28-OCT-2010 14:49
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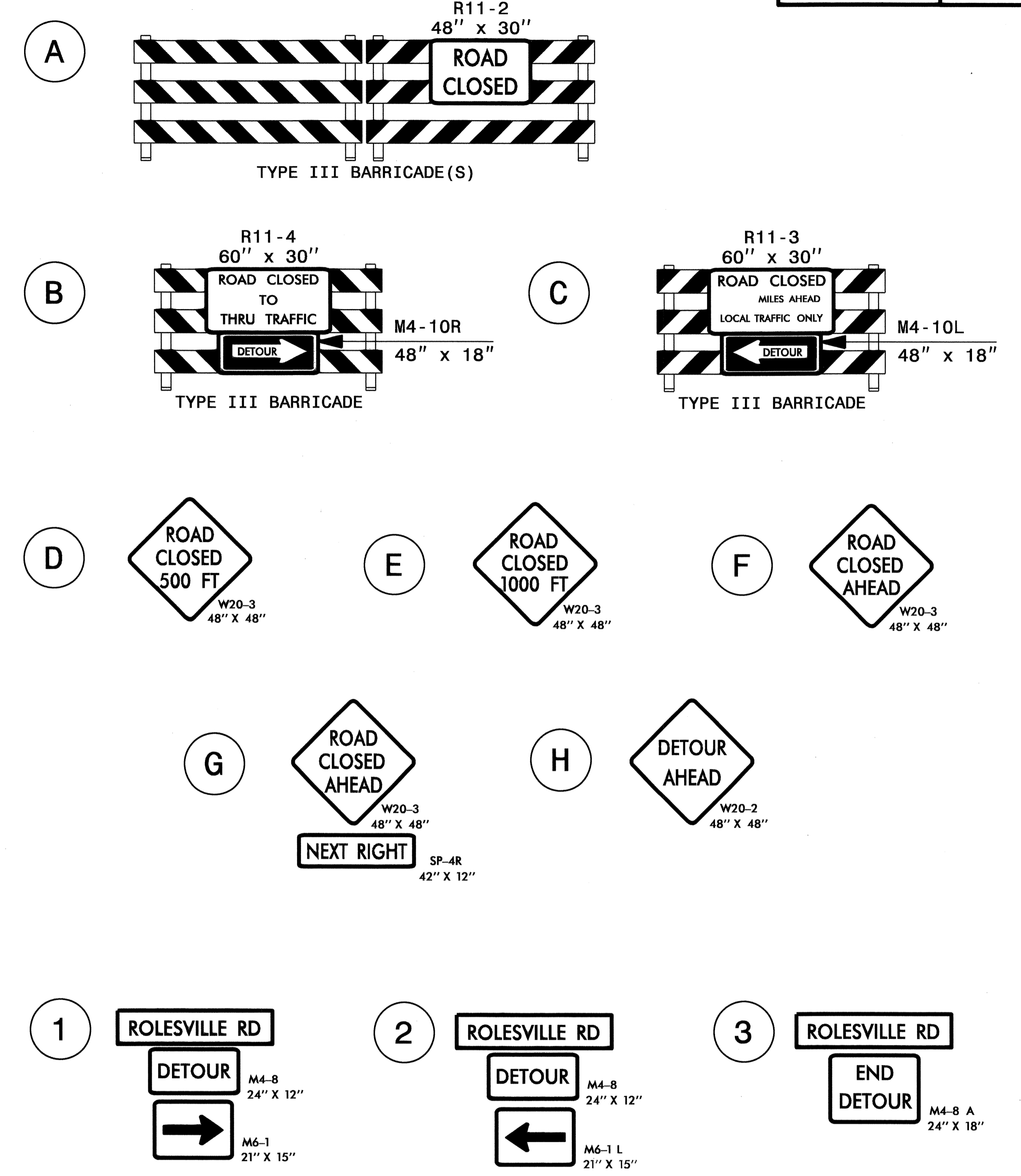
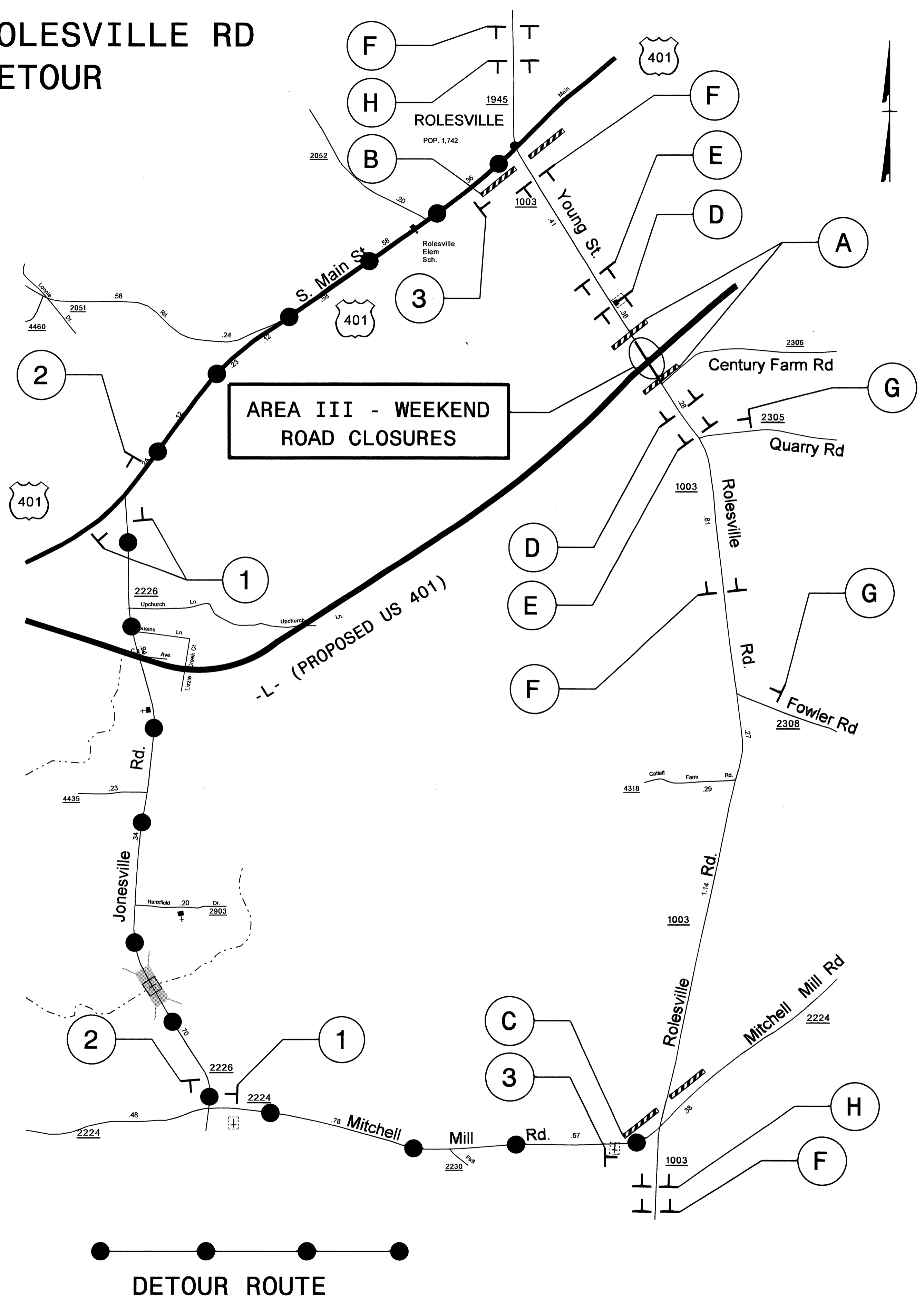
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Oct 27, 2010



AREA III
PHASE I

ROLESVILLE RD DETOUR



NOTES:

TRAFFIC CONTROL DEVICES (A) THRU (H) SHALL BE INSTALLED ACCORDING TO ROADWAY STANDARD DRAWING NO. 1101.03, SHEET 1 OF 9

TRAFFIC CONTROL DEVICES (1) THRU (3) SHALL BE INSTALLED AS PER ENGINEER'S INSTRUCTION

APPROVED: _____ DATE: _____		<p>AREA III ROLESVILLE RD (-Y3-) OFFSITE DETOUR</p>
<p>Oct 29, 2010</p>		

28-OCT-2010 14:49
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 sbjennings AT WZTC24731

(A)

MESSAGE NO. 1	MESSAGE NO. 2
ROAD WILL BE CLOSED	FRI-10PM TO MON-6AM

CHANGEABLE MESSAGE SIGN

ACTIVATE 3 DAYS PRIOR TO PHASE I, STEP 5 AND STEP 8

(B)

MESSAGE NO. 1	MESSAGE NO. 2
NEW TRAFFIC PATTERN	SHARP TURN AHEAD

CHANGEABLE MESSAGE SIGN

ACTIVATE IN PHASE I STEP 9
** (SEE NOTE) **

(C)

MESSAGE NO. 1	MESSAGE NO. 2
NEW TRAFFIC PATTERN	WEEK OF 'DATE'

CHANGEABLE MESSAGE SIGN

ACTIVATE 7 DAYS PRIOR TO PHASE II, STEP 3

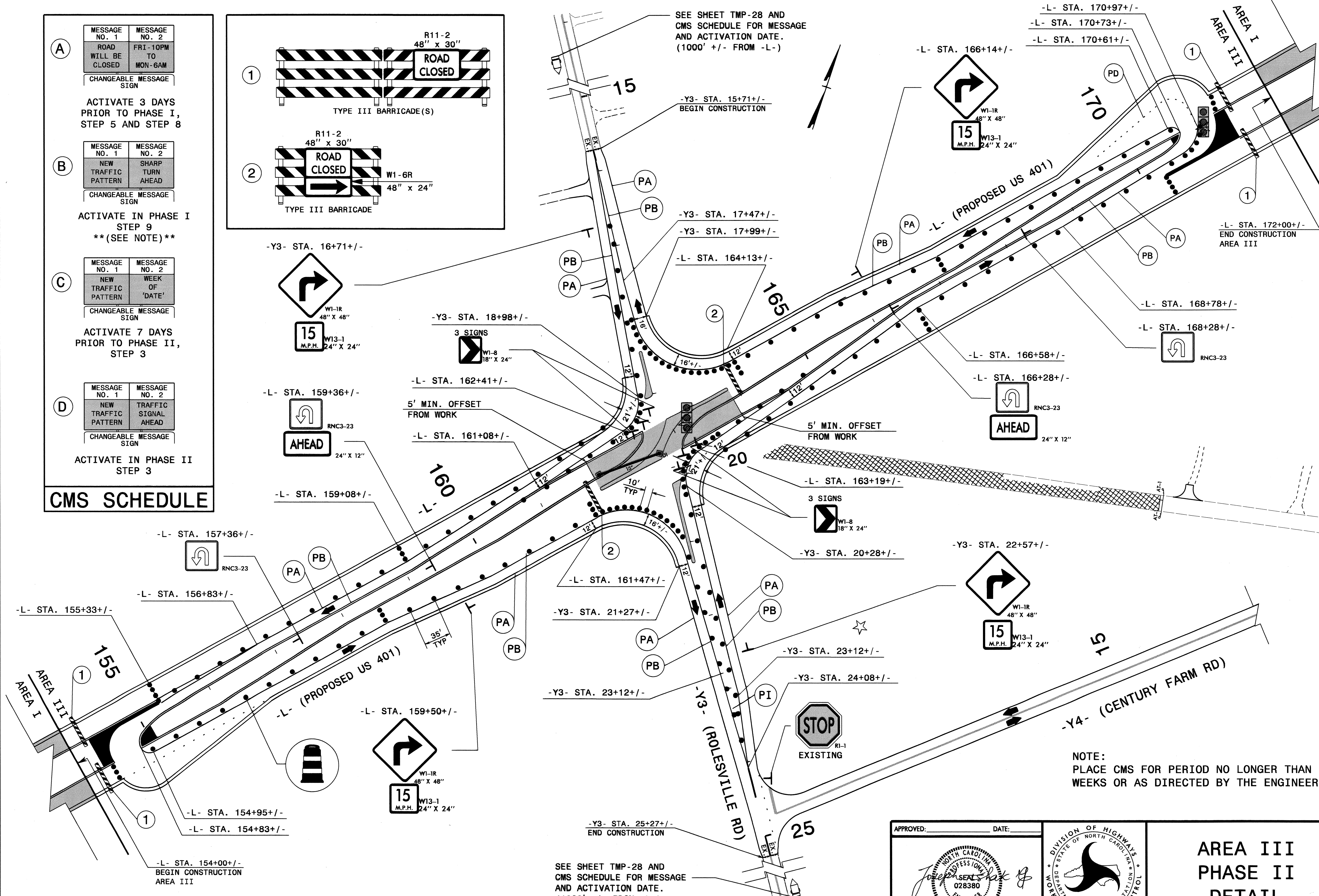
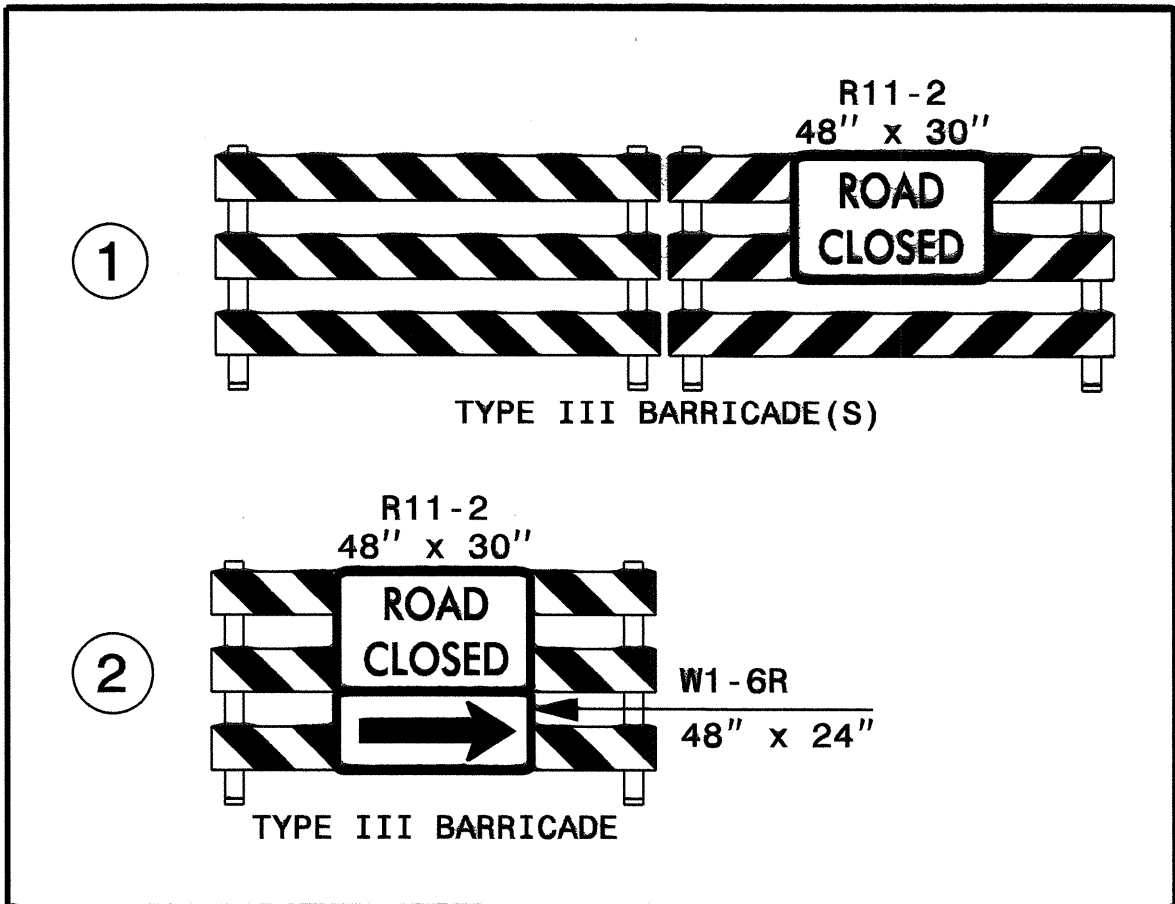
(D)

MESSAGE NO. 1	MESSAGE NO. 2
NEW TRAFFIC PATTERN	TRAFFIC SIGNAL AHEAD

CHANGEABLE MESSAGE SIGN

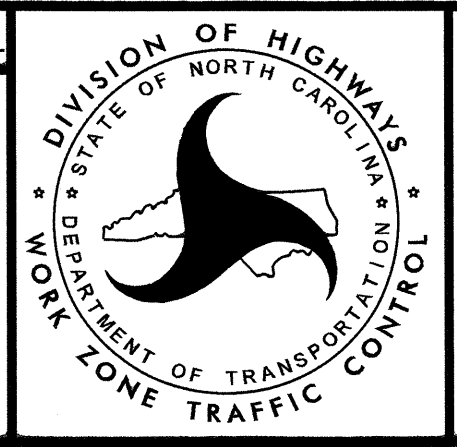
ACTIVATE IN PHASE II STEP 3

CMS SCHEDULE



NOTE: PLACE CMS FOR PERIOD NO LONGER THAN 2 WEEKS OR AS DIRECTED BY THE ENGINEER

APPROVED: *Joseph Shakt* DATE: *Oct 29, 2010*



AREA III PHASE II DETAIL

01-NOV-2010 11:00 \\dot\dfsroot\Projects\R2814B\TrafficControl\TCPAR-2814B_TC_TMP-33.dgn sbjennings AT WZTC24731

AREA IV - PHASING

NOTE:

- 1) -Y5- (PULLEYTOWN ROAD) CANNOT BE CLOSED AT THE SAME TIME AS -Y3- (ROLESVILLE RD).
- 2) MAINTAIN ACCESS TO ALL RESIDENCES AND BUSINESSES AT ALL TIMES WITHIN THE PROJECT LIMITS, UNLESS OTHERWISE DIRECTED BY THE ENGINEER.
- 3) THE TRAFFIC CONTROL PLAN IS PHASED INTO AREAS. WORK MAY BE PERFORMED IN MORE THAN ONE AREA SIMULTANEOUSLY BUT SHALL PROGRESS IN EACH AREA THROUGH THE PHASE AND STEP REQUIREMENTS.
- 4) IN THE PHASING SHOWN BELOW, "FLAGGER" IS DEFINED AS RSD 1101.02, SHEET 1 OF 9.
- 5) COMPLETE AREA IV, PHASE II BEFORE AREA I, PHASE I, STEP 12.

PHASE I

- STEP 1
- INSTALL ADVANCED WORK ZONE WARNING SIGNS ON -Y2- (PULLEYTOWN RD) AS REQUIRED IN PROJECT NOTES. (SEE SHEETS TMP-1B - TMP-1D AND TMP-2A)
- STEP 2
- AWAY FROM TRAFFIC CONSTRUCT THE FOLLOWING: SEE TMP-35:
 - ALL DRAINAGE WORK REQUIRED IN AREA IV AS DIRECTED BY THE ENGINEER.
 - -L- STA. 223+00+/- TO STA. 240+50+/-, UP TO BUT NOT INCLUDING THE FINAL LAYER OF SURFACE COURSE.
 - USING FLAGGERS MAY BEGIN WIDENING AND WEDGING OF -Y5-. (SEE SHEET TMP-35)
 - INSTALL AND COVER ROAD CLOSURE SIGNS AND DETOUR SIGNS AS SHOW ON SHEET TMP-36.

PHASE II

- STEP 1 - CHANGE CMSs TO MESSAGE 'B' ON -Y5- AS SHOWN ON SHEET TMP-37, SEVEN (7) DAYS PRIOR TO PHASE II, STEP 3.
- STEP 2
- USING FLAGGERS, COMPLETE THE FOLLOWING NO MORE THAN THREE (3) DAYS PRIOR TO AREA I, PHASE I, STEP 12:
 - PLACE TEMPORARY PAVEMENT MARKINGS IN THE FINAL TRAFFIC PATTERN AND REMOVE CONFLICTING PAVEMENT MARKINGS. (SEE FINAL PAVEMENT MARKINGS PLANS)
 - REINSTALL TRAFFIC CONTROL DEVICES AS SHOWN ON TMP-37.
- STEP 3
- OPEN -Y5- (PULLEYTOWN RD) TO TEMPORARY TRAFFIC PATTERN WITHIN AREA II AS SHOWN ON TMP-37 AND FINAL PAVEMENT MARKING PLANS. ACTIVATE CMS MESSAGE 'C' FOR SEVEN (7) DAYS.


COMPLETE THE WORK REQUIRED IN PHASE I, STEPS 3 THROUGH 5 IN TWENTY-ONE (21) CONSECUTIVE CALENDAR DAYS. SEE INTERMEDIATE CONTRACT TIME AND LIQUIDATED DAMAGES.

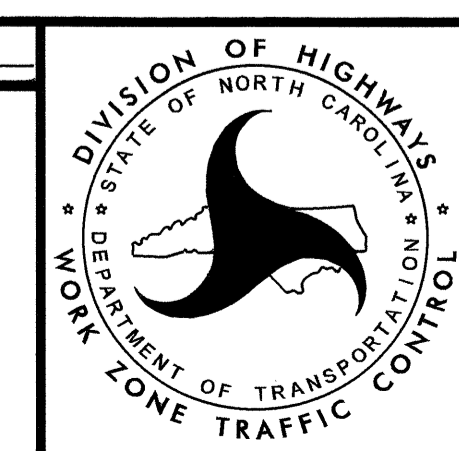
21 DAY ICT

- STEP 3
- UNCOVER ROAD CLOSURE SIGNS AND DETOUR SIGNS; CLOSE SR 2300 (PULLEYTOWN RD) AND DETOUR TRAFFIC OFFSITE TO COMPLETE THE FOLLOWING AWAY FROM TRAFFIC: (SEE SHEETS TMP-36, TMP-37 AND ROADWAY PLANS)
 - REMAINING DRAINAGE STRUCTURES.
 - COMPLETE WIDENING AND WEDGING -Y5- UP TO BUT NOT INCLUDING THE FINAL LAYER OF SURFACE COURSE.
- STEP 4
- CONSTRUCT CONCRETE ISLANDS AT INTERSECTION OF -Y5- AND -L-.
 - PLACE TEMPORARY PAVEMENT MARKING FOR PHASE II TRAFFIC PATTERN.
- STEP 5
- SIMULTANEOUSLY OPEN -Y5- (PULLEYTOWN RD) TO TEMPORARY TRAFFIC PATTERN AND PLACE CMSs WITH MESSAGE 'A' AS SHOWN ON SHEET TMP-37. REMOVE ROAD CLOSURE SIGNING AND DETOUR SIGNING.

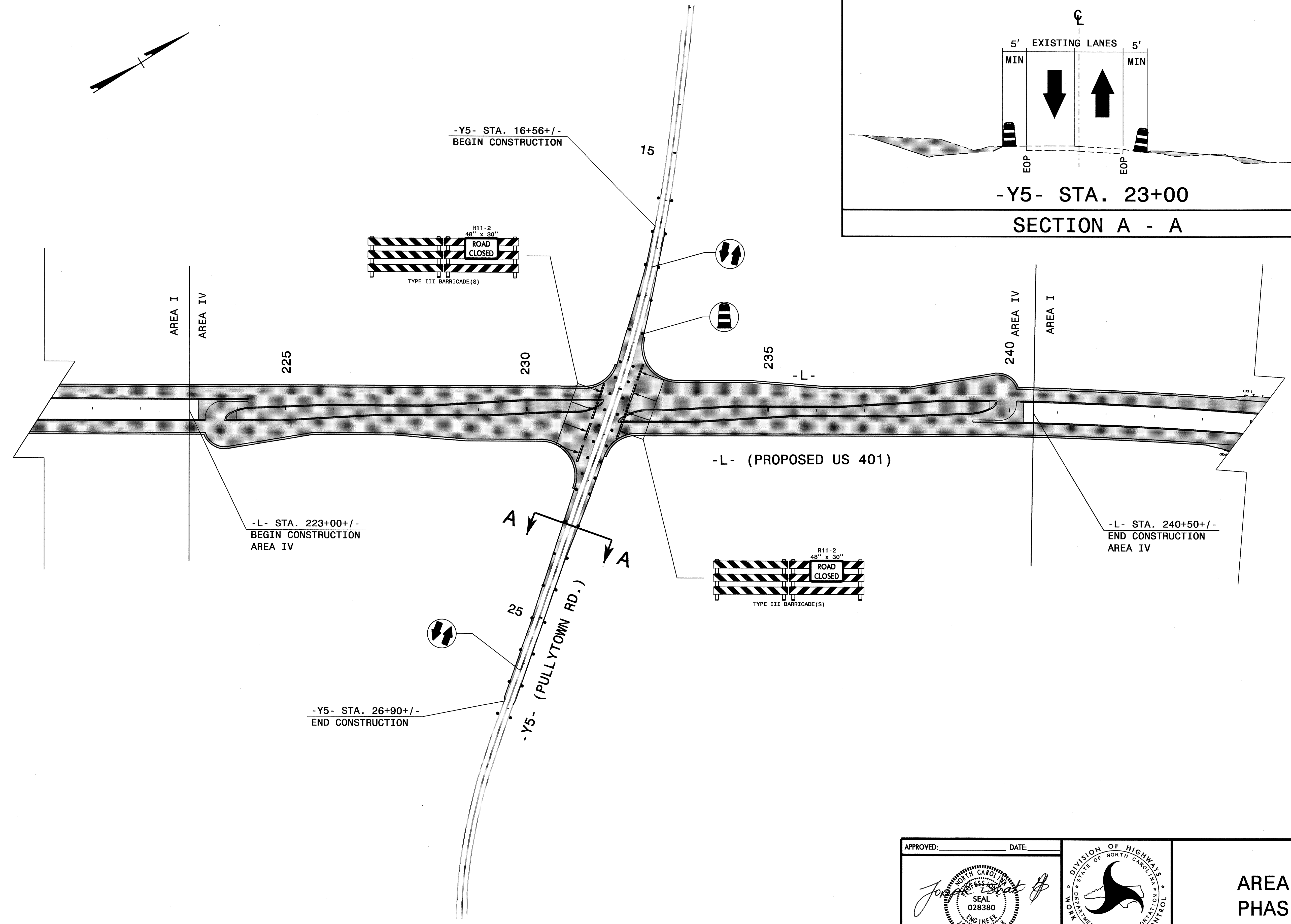
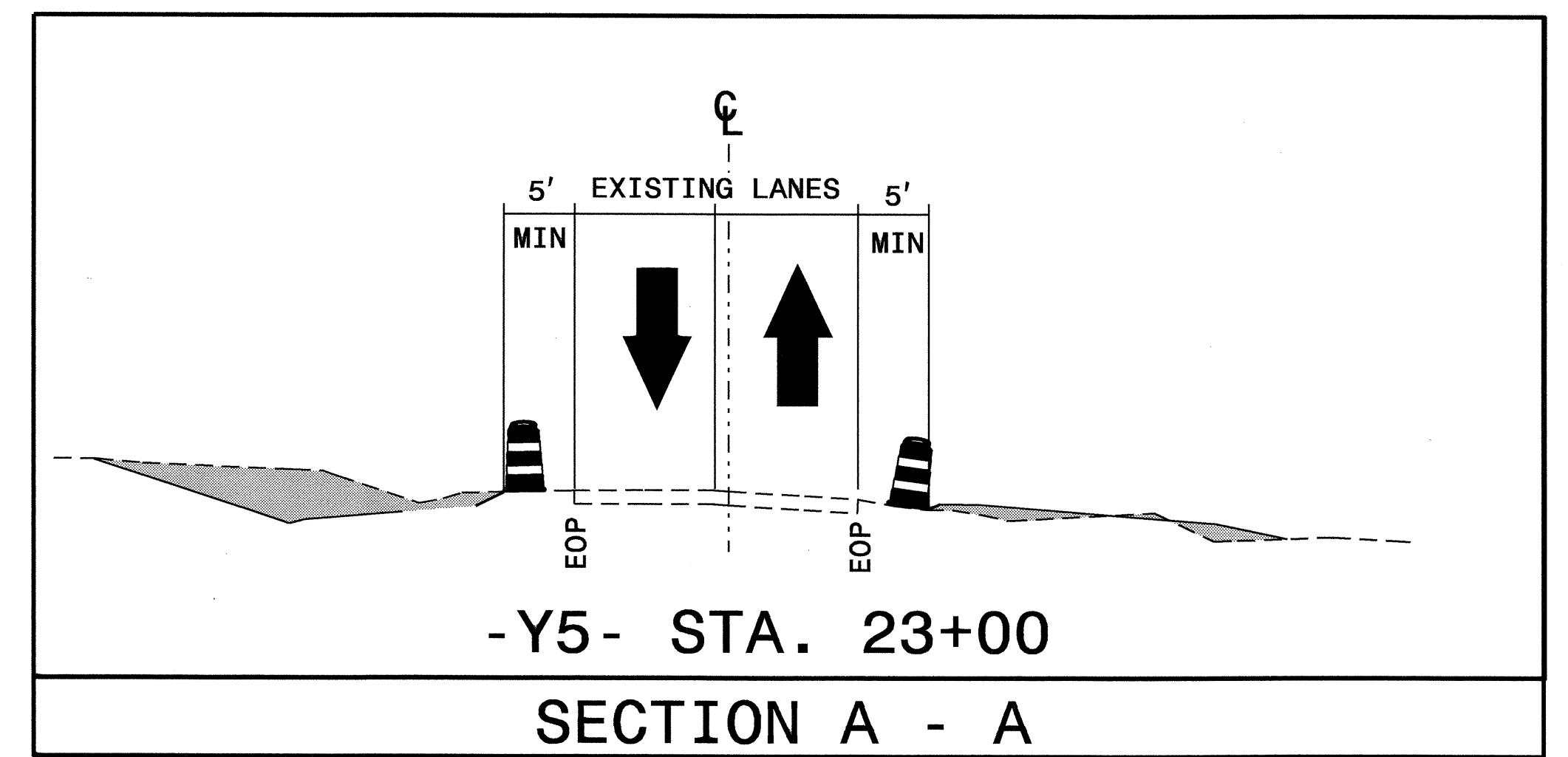
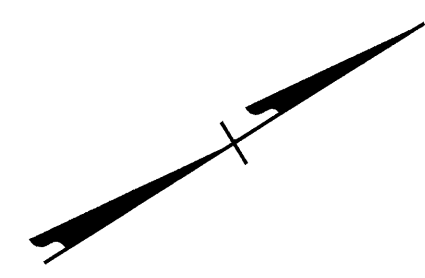
PHASE III

- STEP 1
- REFER TO AREA I, PHASE III FOR REMAINING STEPS.

APPROVED:  DATE: *Oct 29, 2010*



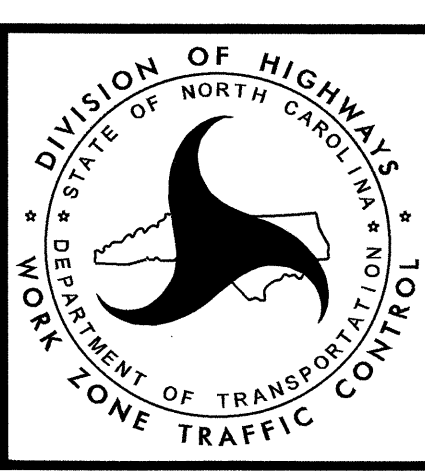
**AREA IV
TEMPORARY TRAFFIC
CONTROL PHASING**



28-OCT-2010 14:52
 \\dot\dfsroot\NSP\Projects-RAR2814B\TrafficControl\TCP\R-2814B_TC_TMP-35.dgn
 sbjennings AT WZTC24T3

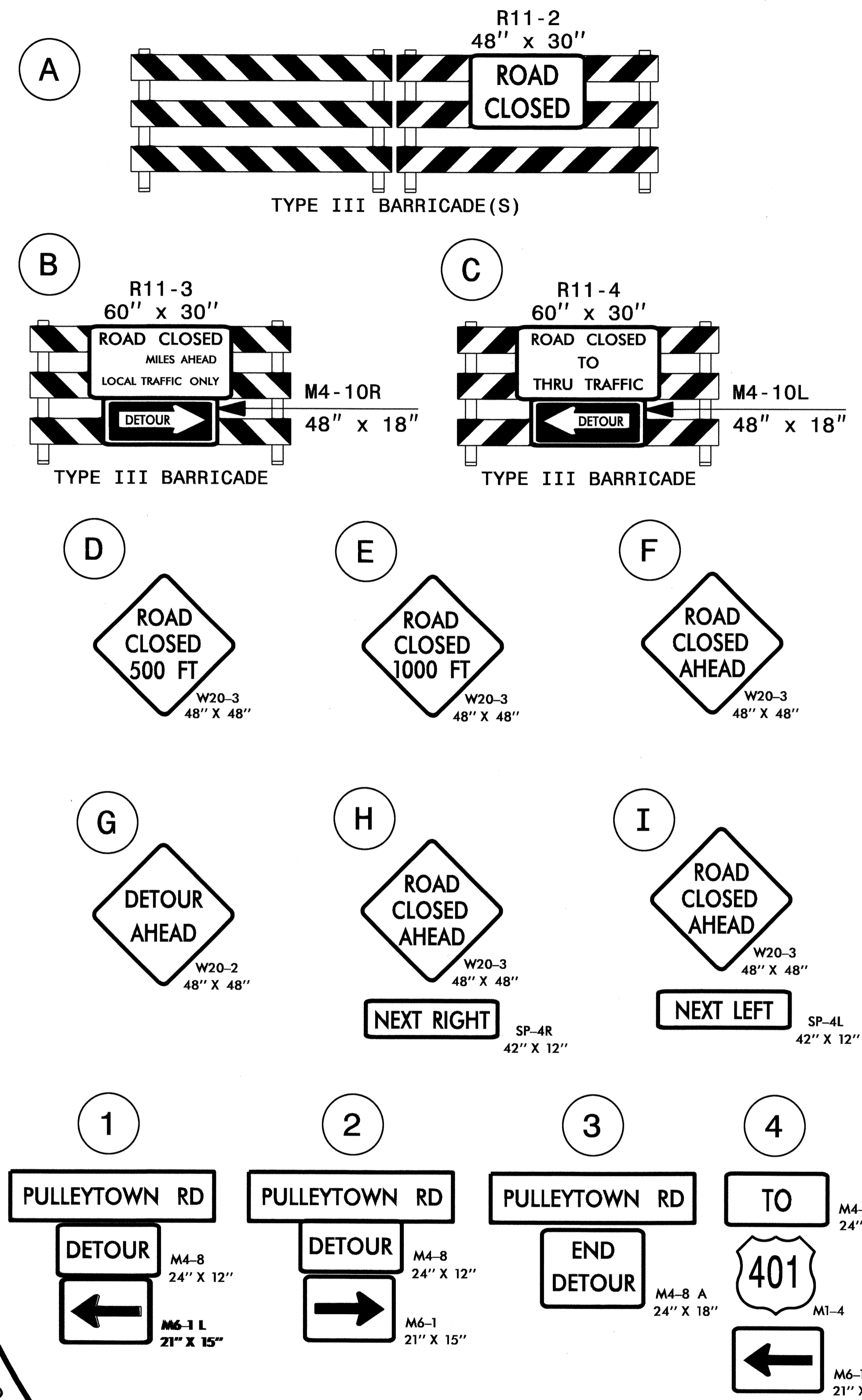
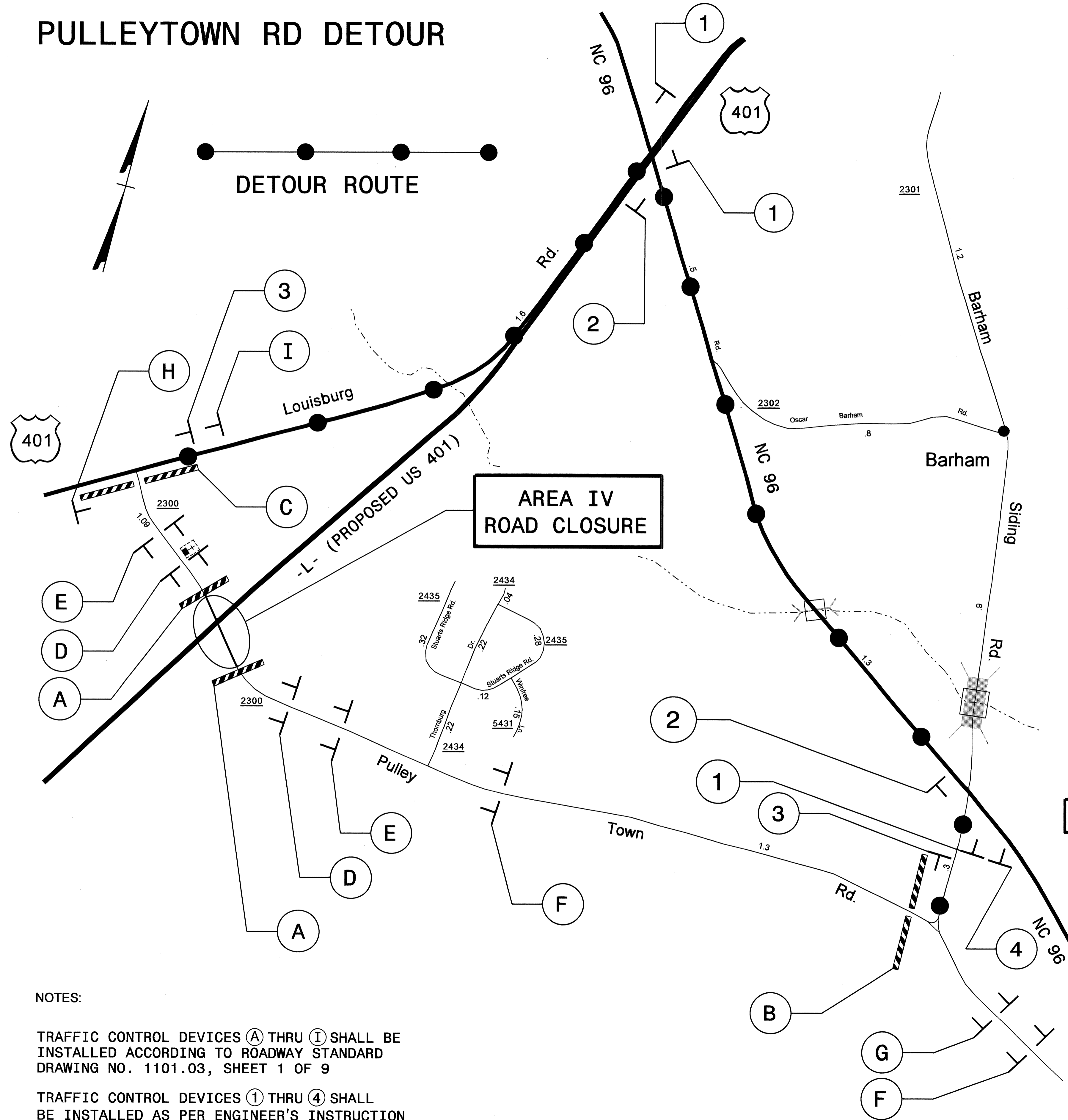
APPROVED: _____ DATE: _____

Joseph Ishak
 ENGINEER
 028380
 NORTH CAROLINA
 STATE OF NORTH CAROLINA
 OCT 27 2010



AREA IV
 PHASE I

PULLEYTOWN RD DETOUR



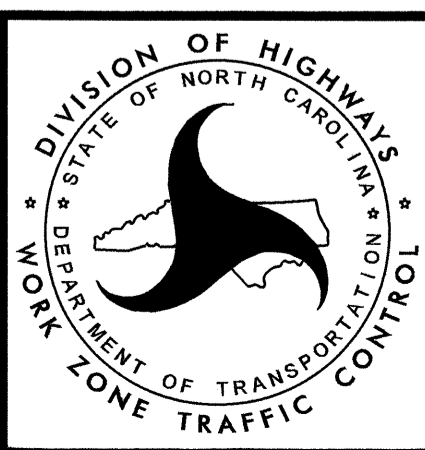
NOTES:

TRAFFIC CONTROL DEVICES (A) THRU (I) SHALL BE INSTALLED ACCORDING TO ROADWAY STANDARD DRAWING NO. 1101.03, SHEET 1 OF 9

TRAFFIC CONTROL DEVICES (1) THRU (4) SHALL BE INSTALLED AS PER ENGINEER'S INSTRUCTION

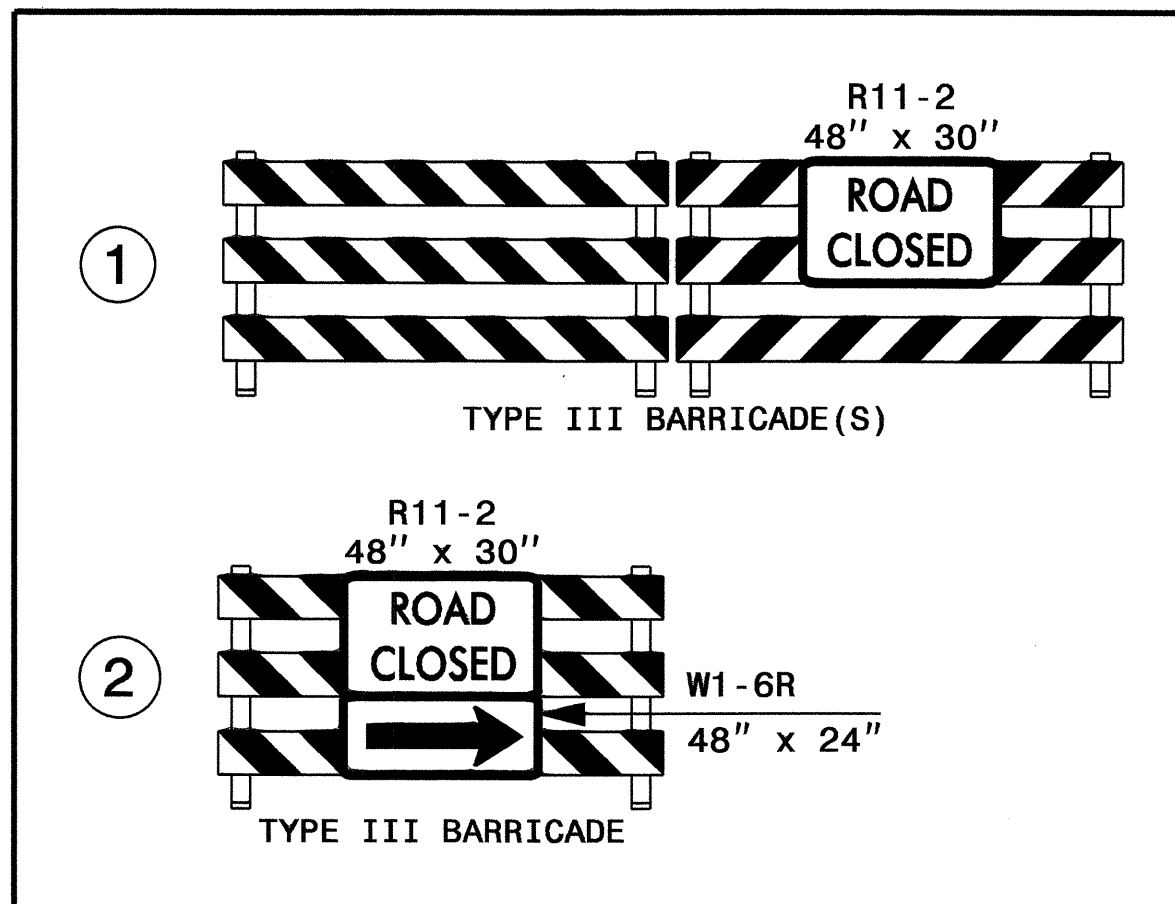
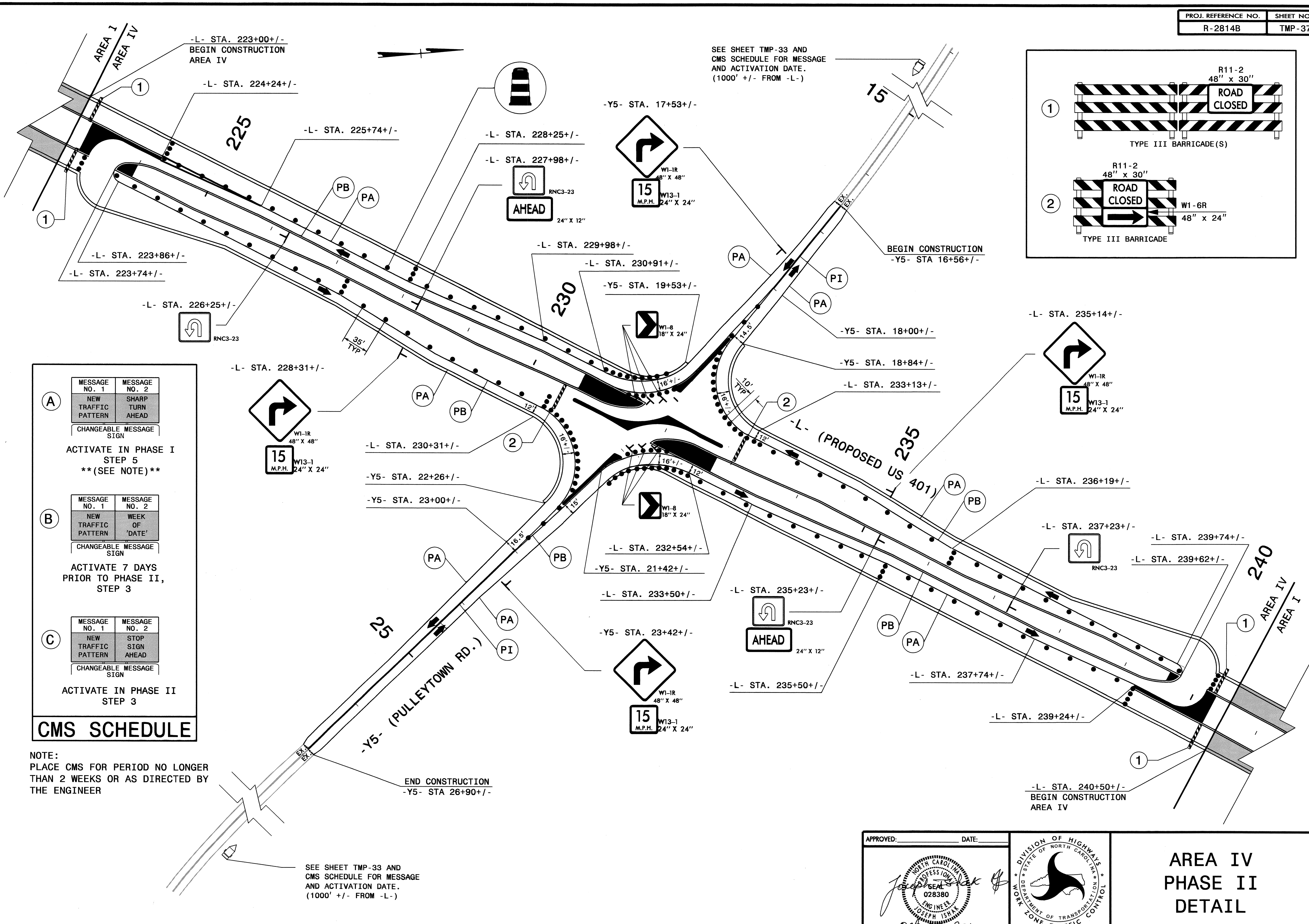
APPROVED: *Joseph Ishak* DATE: *Oct 29, 2010*

SEAL 028380 ENGINEER JOSEPH ISHAK



**AREA IV
PULLEYTOWN RD (-Y5-)
OFFSITE DETOUR**

28-OCT-2010 14:53 \\dot\dfsroot\NSP\Projects-R\2814B\TrafficControl\TCP\AR-2814B.TC.TMP-36.dgn sbjennings AT WZTC2473

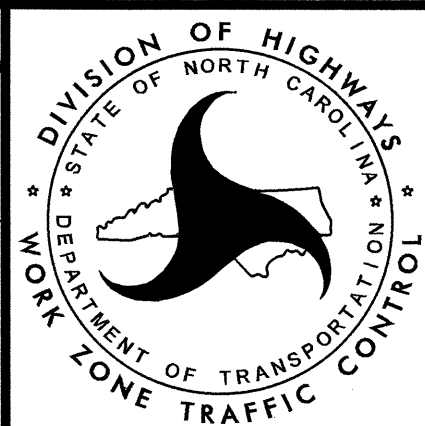


A	MESSAGE NO. 1	MESSAGE NO. 2
	NEW TRAFFIC PATTERN	SHARP TURN AHEAD
CHANGEABLE MESSAGE SIGN		
ACTIVATE IN PHASE I STEP 5		
(SEE NOTE)		
B	MESSAGE NO. 1	MESSAGE NO. 2
	NEW TRAFFIC PATTERN	WEEK OF 'DATE'
CHANGEABLE MESSAGE SIGN		
ACTIVATE 7 DAYS PRIOR TO PHASE II, STEP 3		
C	MESSAGE NO. 1	MESSAGE NO. 2
	NEW TRAFFIC PATTERN	STOP SIGN AHEAD
CHANGEABLE MESSAGE SIGN		
ACTIVATE IN PHASE II STEP 3		
CMS SCHEDULE		

NOTE:
PLACE CMS FOR PERIOD NO LONGER THAN 2 WEEKS OR AS DIRECTED BY THE ENGINEER

APPROVED: _____ DATE: _____

Joseph Ishak
 NORTH CAROLINA PROFESSIONAL ENGINEER
 028380
 JOSEPH ISHAK
 Oct 24, 2010



**AREA IV
PHASE II
DETAIL**

01-NOV-2010 11:01
 \\dot\dfsroot\01\NSPProj\TIPPrjects\R\2814B\TrafficControl\TCP\R-2814B_TC_TMP_37.dgn
 sblennings AT WZTC24731