

STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

STATE PROJECT REFERENCE NO.	SHEET NO.
R-4002	TCP-1

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

LEGEND

ROADWAY STANDARD DRAWINGS

THE FOLLOWING ROADWAY STANDARDS AS APPEAR IN "ROADWAY STANDARD DRAWINGS" - PROJECT SERVICES UNIT - N.C. DEPARTMENT OF TRANSPORTATION - RALEIGH, N.C., DATED JULY 2006 ARE APPLICABLE TO THIS PROJECT AND BY REFERENCE HEREBY ARE CONSIDERED A PART OF THESE PLANS:

STD. NO.	TITLE
1101.02	TEMPORARY LANE CLOSURES
1101.03	TEMPORARY ROAD CLOSURES
1101.04	TEMPORARY SHOULDER CLOSURES
1101.11	TRAFFIC CONTROL DESIGN TABLES
1110.01	STATIONARY WORK ZONE SIGNS
1110.02	PORTABLE WORK ZONE SIGNS
1115.01	FLASHING ARROW PANELS
1130.01	DRUMS
1135.01	CONES
1145.01	BARRICADES
1150.01	FLAGGING DEVICES
1165.01	TRUCK MOUNTED IMPACT ATTENUATOR
1180.01	SKINNY - DRUM
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
1205.06	PAVEMENT MARKINGS - THRU LANE DROPS
1205.07	PAVEMENT MARKINGS - PEDESTRIAN CROSSWALKS
1205.08	PAVEMENT MARKINGS - SYMBOLS AND WORD MESSAGES
1205.09	PAVEMENT MARKINGS - PAINTED ISLANDS
1250.01	PAVEMENT MARKER SPACING
1251.01	RAISED PAVEMENT MARKERS - (TEMPORARY AND PERMANENT)
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1261.01	GUARDRAIL AND BARRIER DELINEATOR SPACING
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 - YELLOW/YELLOW PAVEMENT MARKER
 - CRYSTAL/RED PAVEMENT MARKER
 - PAVEMENT MARKING SYMBOLS

R-4002

TIP PROJECT:

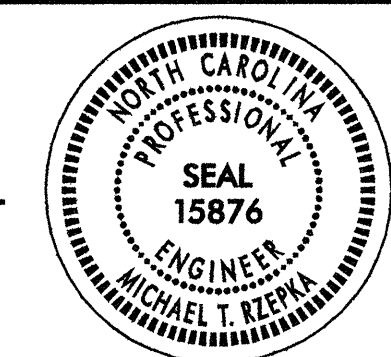
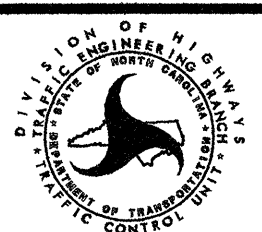
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<p>PLAN REVIEWED BY: WORK ZONE TRAFFIC CONTROL UNIT</p> <p>J. S. BOURNE, P.E. _____ TRAFFIC CONTROL ENGINEER</p> <p>J. ISHAK, P.E. _____ TRAFFIC CONTROL PROJECT ENGINEER</p> <p>H. LAWANDOS _____ TRAFFIC CONTROL PROJ. DESIGN ENGINEER</p> <p>_____ TRAFFIC CONTROL DESIGN ENGINEER</p>	<p>APPROVED: <i>Michael T. Rzepka</i></p> <p>DATE: 12-8-09</p> <p>SEAL</p> 	<p>PLAN PREPARED FOR N.C.D.O.T. BY:</p> <p>M. T. RZEPKA, P.E. _____ PROJECT ENGINEER</p> <p>G. E. PARKER _____ DESIGN ENGINEER</p> <p>B. L. MARIOTTE _____ DESIGN TECHNICIAN</p>	<p>KO & ASSOCIATES, P.C. Consulting Engineers 824 BENDISH WALK SUITE 200 RALEIGH, N.C. 27607 (919) 852-6969</p>
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TEMPORARY PAV'T MARKING SCHEDULE

SYMBOL	DESCRIPTION	QUANTITY	PAY ITEM	TOTAL
PAVEMENT MARKING LINES				
			PAINT (4")	
PA	WHITE EDGELINE	10,500 LF		
PB	YELLOW EDGELINE	16,600 LF		
PC	10 ft. WHITE SKIP	900 LF		
PD	2 ft. WHITE MINISKIP	776 LF		
PE	WHITE SOLID LANE LINE	15,936 LF		
PI	YELLOW DOUBLE CENTER LINE	19,236 LF		
			TOTAL	63,948 LF
PAINT (8")				
PS	WHITE DIAGONAL	520 LF		
PV	YELLOW DIAGONAL	1,060 LF		
			TOTAL	1,580 LF
PAINT (24")				
P4	WHITE STOPBAR	2,464 LF		
			TOTAL	2,464 LF
PAVEMENT MARKING SYMBOLS				
			PAINT SYMBOL	
QA	LEFT TURN ARROW	84 EA		
QB	RIGHT TURN ARROW	56 EA		
QC	STRAIGHT ARROW	20 EA		
QD	COMBO STRAIGHT/LEFT TURN ARROW	6 EA		
QE	COMBO STRAIGHT/RIGHT TURN ARROW	10 EA		
			TOTAL	176 EA
PAINT CHARACTER				
QI	ALPHANUMERIC CHARACTER	8 EA		
			TOTAL	8 EA
PAVEMENT MARKERS				
			TEMPORARY RAISED	
MH	YELLOW AND YELLOW	120 EA		
MI	CRYSTAL AND RED	443 EA		
			TOTAL	563 EA

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APPROVED: <i>Michael T. Repp</i> DATE: 11-26-08	<h3 style="margin: 0;">TEMPORARY PAVEMENT MARKING SCHEDULE</h3>				
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PROJECT NOTES

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

THE FOLLOWING GENERAL NOTES APPLY AT ALL TIMES FOR THE DURATION OF THE CONSTRUCTION PROJECT, EXCEPT WHEN OTHERWISE NOTED IN THE PLAN, OR DIRECTED BY THE ENGINEER.

TIME RESTRICTIONS

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

ROAD NAME	DAY AND TIME RESTRICTIONS
VILLAGE DRIVE (-L-)	6:00AM-8:30AM & 3:00PM-6:00PM, MONDAY THRU FRIDAY SEE LOCAL NOTE 1
US 17-74-76	6:00AM-8:00PM, MONDAY THRU SUNDAY

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

ROAD NAME

VILLAGE DRIVE (-L-)
US 17-74-76

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 6:00 P.M. DECEMBER 31st TO 6:00 A.M. JANUARY 2ND. IF NEW YEAR'S DAY IS ON A FRIDAY, SATURDAY, SUNDAY, OR MONDAY THEN UNTIL 6:00 A.M. THE FOLLOWING TUESDAY.
3. FOR EASTER, BETWEEN THE HOURS OF 6:00 P.M. THURSDAY AND 6:00 A.M. MONDAY.
4. FOR MEMORIAL DAY, BETWEEN THE HOURS OF 6:00 P.M. FRIDAY TO 6:00 A.M. TUESDAY.
5. FOR INDEPENDENCE DAY, BETWEEN THE HOURS OF 6:00 P.M. THE DAY BEFORE INDEPENDENCE DAY AND 6:00 A.M. THE DAY AFTER INDEPENDENCE DAY.

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

C) DO NOT STOP TRAFFIC AS FOLLOWS:

ROAD NAME	DAY AND TIME RESTRICTIONS	DURATION AND OPERATION
VILLAGE RD. (-L-)	6:00AM-12:00AM, MONDAY THRU SUNDAY	15 MIN./TRAFFIC SHIFTS

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 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 ONE LANE CLOSURE, IN ANY ONE DIRECTION, ON VILLAGE DRIVE AND US 17-74-76.

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 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.

L) 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) 200 FEET IN ADVANCE AND A MINIMUM OF EVERY HALF 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 40 FT FROM THE EDGE OF TRAVEL LANE AND NO MORE THAN THREE (3) DAYS PRIOR TO THE BEGINNING OF CONSTRUCTION.
- O) PROVIDE PERMANENT SIGNING.
- P) ENSURE ALL NECESSARY SIGNING IS IN PLACE PRIOR TO ALTERING ANY TRAFFIC PATTERN.
- Q) INSTALL BLACK ON ORANGE "DIP" SIGNS (W8-2) AND/OR "BUMP" SIGNS (W8-1) 200 FEET IN ADVANCE OF THE UNEVEN AREA, OR AS DIRECTED BY THE ENGINEER.

TRAFFIC CONTROL DEVICES

R) SPACE CHANNELIZING DEVICES IN WORK AREAS NO GREATER 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.

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

PAVEMENT MARKINGS AND MARKERS

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

ROAD NAME	MARKING	MARKER
ALL ROADS	THERMOPLASTIC	SNOWPLOWABLE RAISED

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

ROAD NAME	MARKING	MARKER
ALL ROADS	PAINT	TEMPORARY RAISED

V) 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 AS DIRECTED BY THE ENGINEER.

TEMPORARY / FINAL SIGNALS

- W) TIE PROPOSED PAVEMENT MARKING LINES TO EXISTING PAVEMENT MARKING LINES.
- X) REMOVE/REPLACE ANY CONFLICTING/DAMAGED PAVEMENT MARKINGS AND MARKERS BY THE END OF EACH DAY'S OPERATION.
- Y) TRACE THE PROPOSED MONOLITHIC ISLAND LOCATIONS WITH PROPER COLOR PAVEMENT MARKINGS PRIOR TO INSTALLATION. PLACE DRUMS TO DELINEATE ANY PROPOSED MONOLITHIC ISLANDS BEFORE INSTALLATION.
- Z) NOTIFY THE ENGINEER TWO (2) MONTHS BEFORE A TRAFFIC SIGNAL INSTALLATION BY OTHERS IS REQUIRED.
- AA) SHIFT AND REVISE ALL SIGNAL HEADS AS SHOWN ON THE SIGNAL PLANS.

MISCELLANEOUS

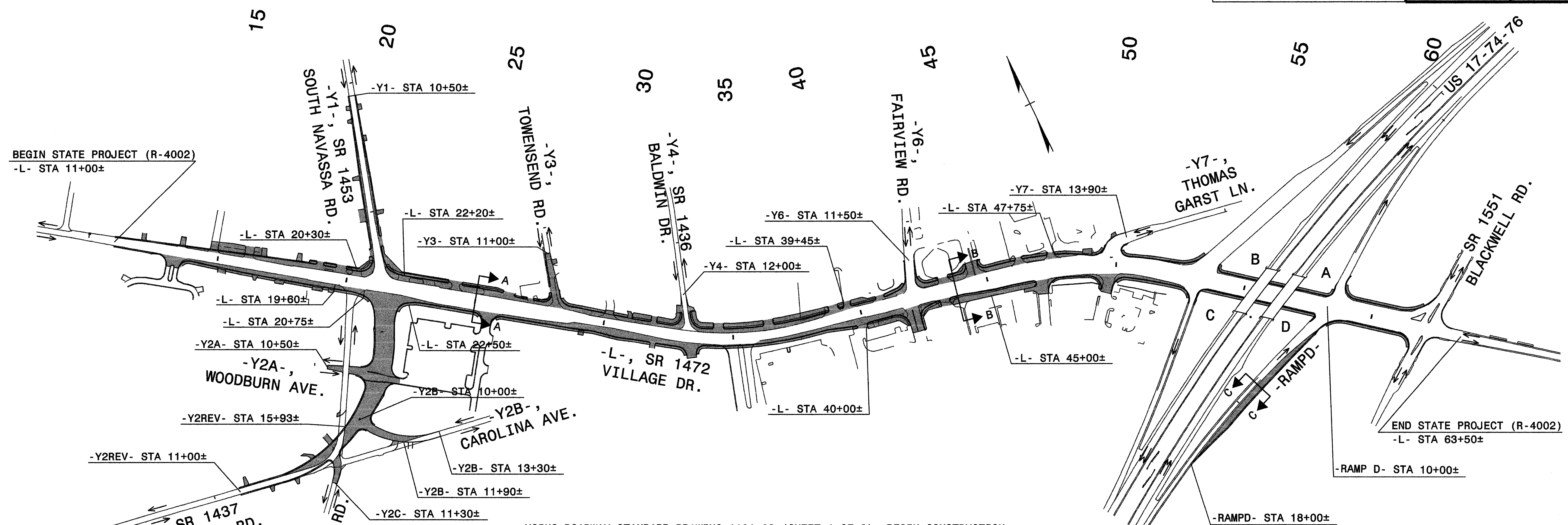
BB) POLICE MAY BE USED TO MAINTAIN TRAFFIC THROUGH THE WORK AREA AND/OR INTERSECTIONS, AS DIRECTED BY THE ENGINEER.

LOCAL NOTES

THE FOLLOWING LOCAL NOTES APPLY ONLY AT THE TIMES THEY ARE REFERENCED IN THE PLANS.

1. WHEN WORKING ON VILLAGE DRIVE (-L-) BETWEEN 8:30 A.M. AND 3:00 P.M., MONDAY THROUGH FRIDAY, MAINTAIN A MINIMUM 2-LANE/2-WAY PATTERN.
2. WHEN INSTALLING PROPOSED DRAINAGE WITH TRENCH BOX UNDER EXISTING PAVEMENT TO BE RETAINED, USE AN APPROVED TRENCH BOX TO MINIMIZE PAVEMENT PATCH WIDTH, OR AS DIRECTED BY THE ENGINEER.
3. MAINTAIN EXISTING TRAFFIC FLOW PATTERN INGRESS/EGRESS FOR AFFECTED BUSINESSES DURING BUSINESS HOURS.
4. WHEN INSTALLING PROPOSED 42" PIPE ACROSS EXISTING VILLAGE DRIVE, MAINTAIN A MINIMUM 2-LANE/2-WAY PATTERN ON VILLAGE DRIVE. PLACE SIGNAL AT -L-/-Y6- INTERSECTION IN FLASH MODE AND MAINTAIN TRAFFIC THROUGH INTERSECTION USING FLAGGING.
5. WORK TO RESTORE -Y3- TO A 2-LANE, 2-WAY PATTERN AT THE END OF EACH WORK DAY. DRUMS OR SKINNY DRUMS SHALL BE USED TO DELINEATE THE EDGE OF ROADWAY ALONG UNPAVED AREAS.

APPROVED: <i>Michael T. Rzepka</i> DATE: 11-26-08 <div style="text-align: center;"> </div>	<h2 style="margin: 0;">PROJECT NOTES</h2> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 30%;">SCALE: NONE</td> <td rowspan="4" style="width: 30%; text-align: center;"> </td> <td style="width: 40%;">REVISIONS</td> </tr> <tr> <td>DATE: 11-08</td> <td></td> </tr> <tr> <td>DWG. BY: BLM</td> <td></td> </tr> <tr> <td>DESIGN BY: CEP</td> <td></td> </tr> <tr> <td>REVIEWED BY: MTR</td> <td></td> <td></td> </tr> </table>	SCALE: NONE		REVISIONS	DATE: 11-08		DWG. BY: BLM		DESIGN BY: CEP		REVIEWED BY: MTR		
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PHASE I

STEP 1

INSTALL WORK ZONE WARNING SIGNS (SEE SHEETS TCP-12 THRU TCP-14).

STEP 2

USING ROADWAY STANDARD DRAWING 1101.02 (SHEETS 1, 2 & 4 OF 9), BEGIN INSTALLATION OF PROPOSED DRAINAGE AND REMOVAL OF EXISTING DRAINAGE AS REQUIRED IN THE ROADWAY PLANS (SEE LOCAL NOTES 1, 2 & 3).

USING ROADWAY STANDARD DRAWING 1101.02 (SHEETS 1 & 2 OF 9), COMPLETE THE FOLLOWING (SEE SHEET TCP-5) (SEE LOCAL NOTES 2, 3 & 4):

- SHIFT TRAFFIC ON VILLAGE DR. TO A 2-LANE/2-WAY PATTERN ON RIGHT 22' OF EXISTING PAVEMENT
- PLACE EXISTING SIGNAL AT -L-/-Y6- INTERSECTION IN FLASH MODE
- INSTALL PORTION OF PROPOSED 42" PIPE UNDER LEFT SIDE OF EXISTING VILLAGE DR. AND REPAIR PAVEMENT
- REMOVE FLASH MODE FROM EXISTING SIGNAL AT -L-/-Y6- INTERSECTION AND SHIFT TRAFFIC BACK TO EXISTING PATTERN

USING ROADWAY STANDARD DRAWING 1101.02 (SHEETS 1, 2, 4 & 7 OF 9), BEGIN PROPOSED WEDGING AND WIDENING OF EXISTING UP TO BUT NOT INCLUDING THE FINAL LAYER OF SURFACE COURSE AT THE FOLLOWING LOCATIONS (SEE SHEET TCP-5) (SEE LOCAL NOTES 1 & 3):

- L- STA 11+00± TO STA 20+30± LEFT
- L- STA 22+20± TO STA 39+75± LEFT
- L- STA 47+75± TO STA 63+50± LEFT
- L- STA 11+00± TO STA 19+60± RIGHT
- L- STA 22+50± TO STA 40+00± RIGHT
- L- STA 45+00± TO STA 63+50± RIGHT
- Y4- STA 12+00± TO -L-
- Y6- STA 11+50± TO -L-
- Y7- STA 13+90± TO -L-
- RAMPD- FROM -L- TO -RAMPD- STA 18+00±

USING ROADWAY STANDARD DRAWING 1101.02 (SHEET 1 OF 9), BEGIN CONSTRUCTION OF PROPOSED -Y3- FROM STA 11+00± TO -L- UP TO BUT NOT INCLUDING THE FINAL LAYER OF SURFACE COURSE (SEE LOCAL NOTE 5).

USING ROADWAY STANDARD DRAWING 1101.02 (SHEET 3 OF 9), BEGIN INSTALLATION OF PROPOSED LIGHTING AND GUARDRAIL IN EXISTING MEDIAN OF US 17-74-76 (SEE ROADWAY AND LIGHTING PLANS).

USING ROADWAY STANDARD DRAWING 1101.02 (SHEETS 1 & 2 OF 9), CONSTRUCT PROPOSED WEDGING AND WIDENING OF EXISTING UP TO BUT NOT INCLUDING THE FINAL LAYER OF SURFACE COURSE AT THE FOLLOWING LOCATIONS (SEE LOCAL NOTES 1 & 3):

- L- STA 20+30± TO STA 22+20± LEFT
- L- STA 20+75± TO STA 22+50± RIGHT
- Y1- STA 10+50± TO -L-
- Y2REV- STA 11+00± TO STA 15+93±
- Y2B- STA 11+90± TO STA 13+30±

USING ROADWAY STANDARD DRAWING 1101.02 (SHEETS 1 & 2 OF 9), CONSTRUCT PROPOSED UP TO BUT NOT INCLUDING THE FINAL LAYER OF SURFACE COURSE AT THE FOLLOWING LOCATIONS (SEE LOCAL NOTES 1 & 3):

- Y2REV- FROM STA 15+93± TO -L-
- Y2A- STA 10+50± TO -Y2REV-
- Y2B- FROM -Y2REV- TO -Y2B- STA 11+90±
- Y2C- STA 11+30± TO -Y2REV-

INSTALL TEMPORARY SIGNAL ON -L- AT -Y1-/-Y2REV- AND KEEP DEACTIVATED.

STEP 3

USING ROADWAY STANDARD DRAWING 1101.02 (SHEETS 1 & 2 OF 9), CONSTRUCT PROPOSED WIDENING UP TO EDGE AND ELEVATION OF THE EXISTING PAVEMENT ON VILLAGE DR. FROM -L- STA 39+45± TO STA 47+75± LEFT (SEE LOCAL NOTES 1 & 3):

USING ROADWAY STANDARD DRAWING 1101.02 (SHEETS 1 & 2 OF 9), COMPLETE THE FOLLOWING (SEE SHEET TCP-6):

- AWAY FROM TRAFFIC, PLACE TEMPORARY PAVEMENT MARKINGS AND MARKERS ON -Y2REV- AND -Y2B-
- CONSTRUCT PROPOSED TIES TO -Y2REV-, -Y2A-, -Y2B- AND -Y2C-
- SHIFT TRAFFIC TO -Y1-, -Y2REV-, -Y2A-, -Y2B- AND -Y2C- AND ACTIVATE TEMPORARY SIGNAL AT -L-/-Y1-/-Y2REV-
- TIE TEMPORARY MARKINGS TO EXISTING MARKINGS ON -Y1-, -Y2REV-, -Y2A-, -Y2B- AND -Y2C-

STEP 4

WORKING IN A CONTINUOUS MANNER ON WEEKENDS AND USING ROADWAY STANDARD DRAWING 1101.02 (SHEETS 1 & 2 OF 9), COMPLETE THE FOLLOWING (SEE SHEET TCP-5) (SEE LOCAL NOTES 2, 3 & 4):

- SHIFT TRAFFIC ON VILLAGE DR. TO A 2-LANE/2-WAY PATTERN ON PROPOSED WIDENING OF -L- FROM STA 39+45± TO STA 47+75± LEFT
- PLACE EXISTING SIGNAL AT -L-/-Y6- INTERSECTION IN FLASH MODE
- INSTALL REMAINING PORTION OF PROPOSED 42" PIPE UNDER EXISTING VILLAGE DR. AND REPAIR PAVEMENT
- REMOVE FLASH MODE FROM EXISTING SIGNAL AT -L-/-Y6- INTERSECTION AND SHIFT TRAFFIC BACK TO EXISTING PATTERN

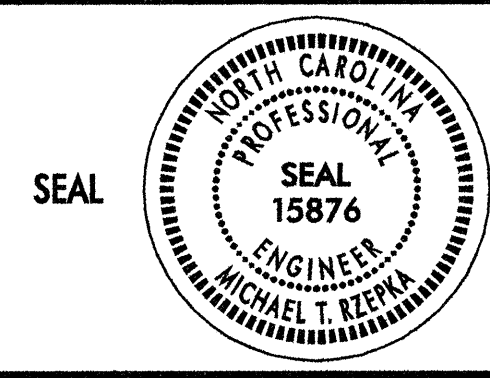
USING ROADWAY STANDARD DRAWING 1101.02 (SHEETS 1 & 2 OF 9), BEGIN PROPOSED WEDGING AND WIDENING OF EXISTING PAVEMENT AT THE FOLLOWING LOCATIONS (SEE LOCAL NOTES 1 & 3):

- L- STA 19+60± TO STA 20+75± RIGHT
- L- STA 40+00± TO STA 45+00± RIGHT

LEGEND

PROPOSED CONSTRUCTION

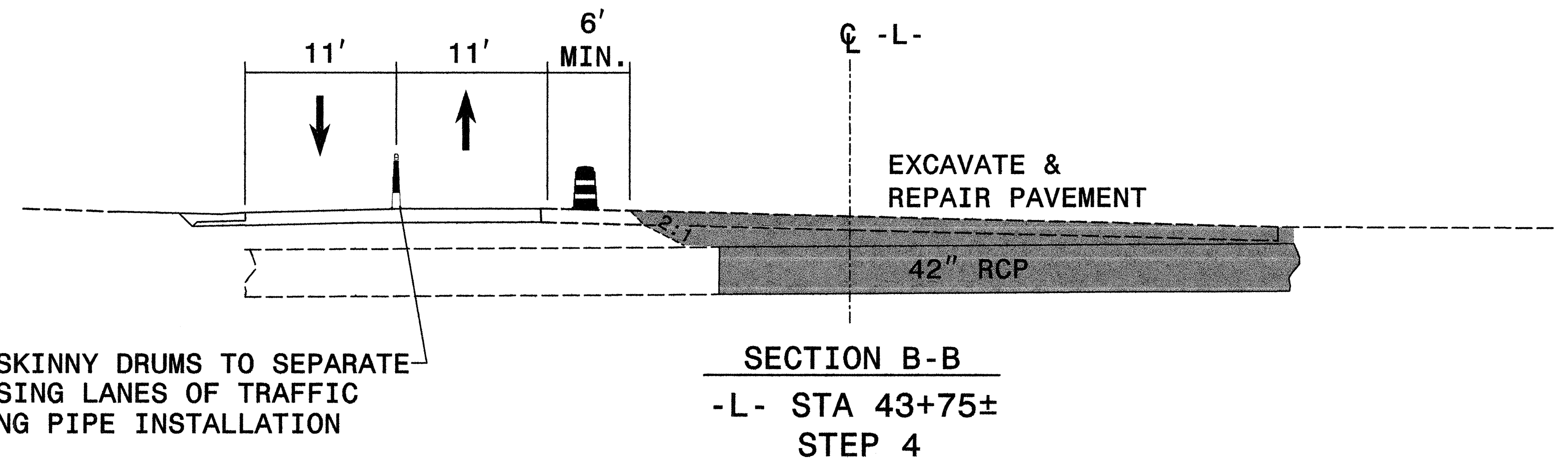
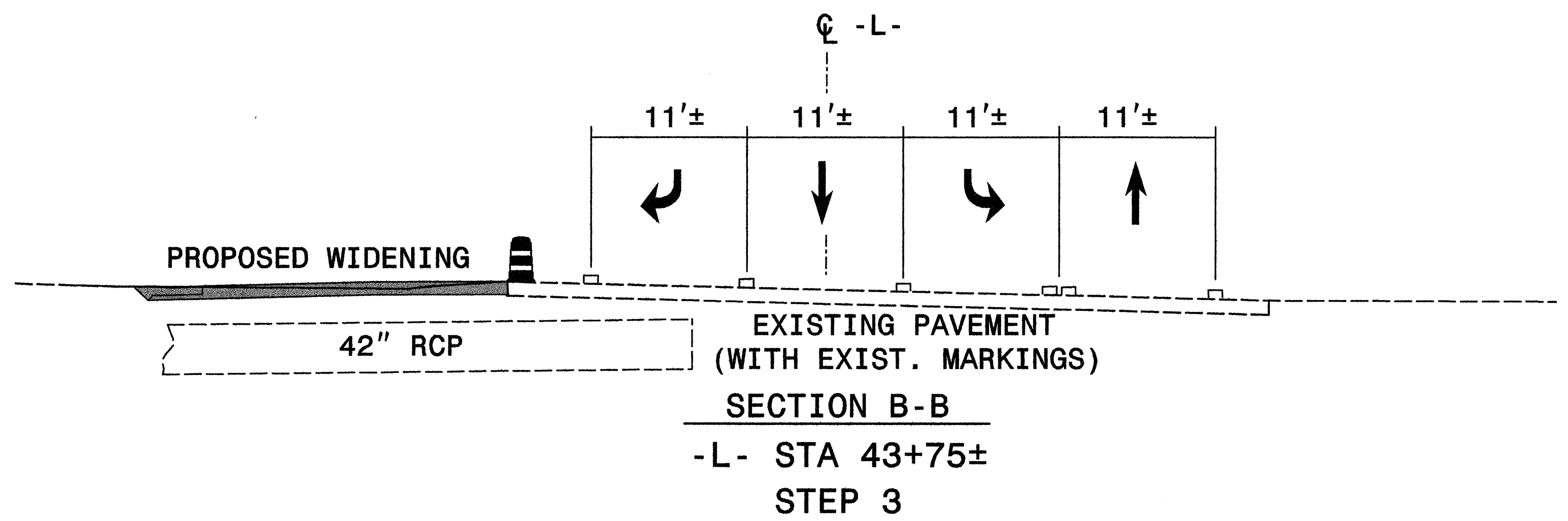
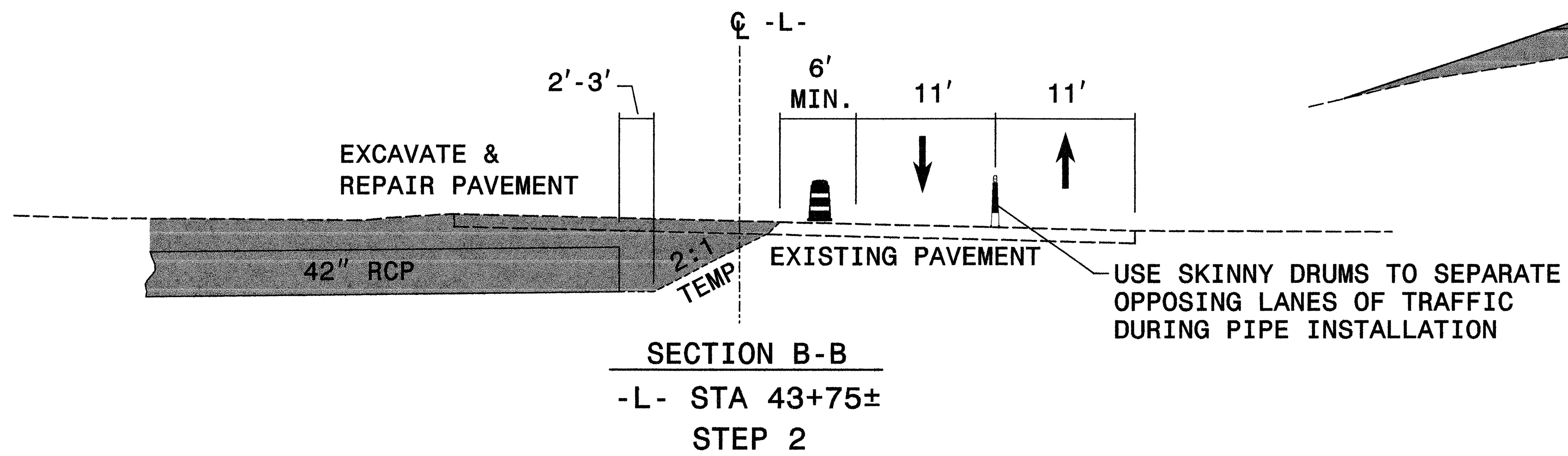
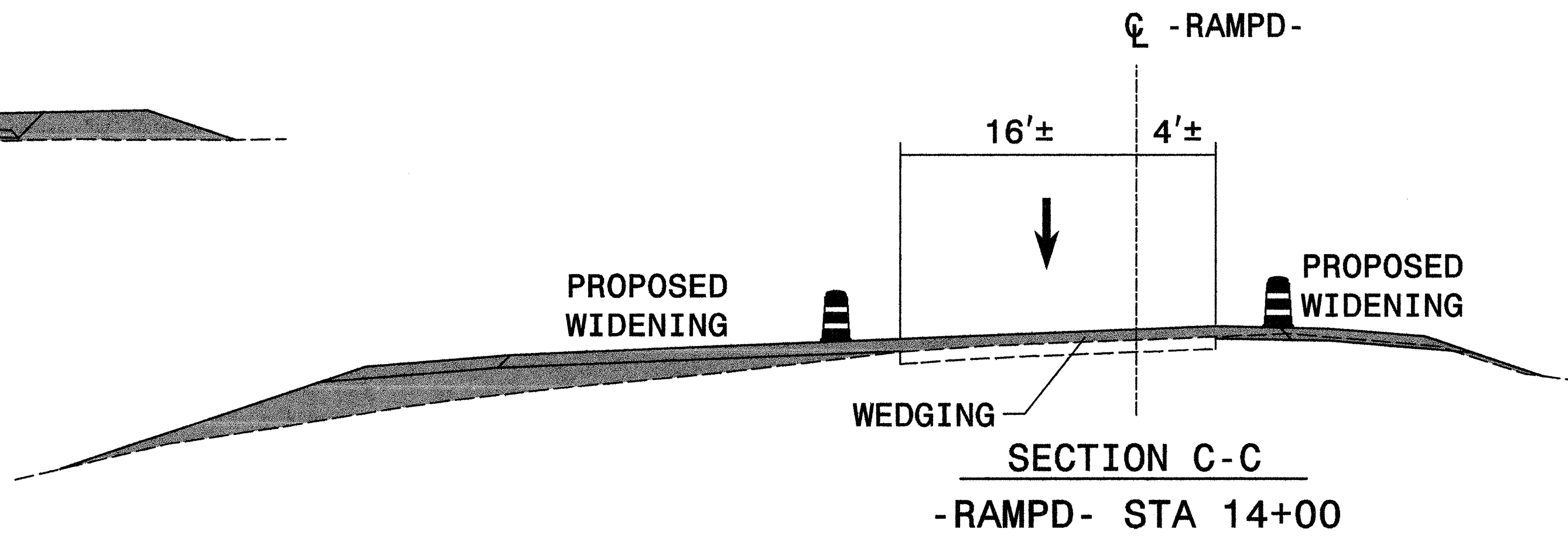
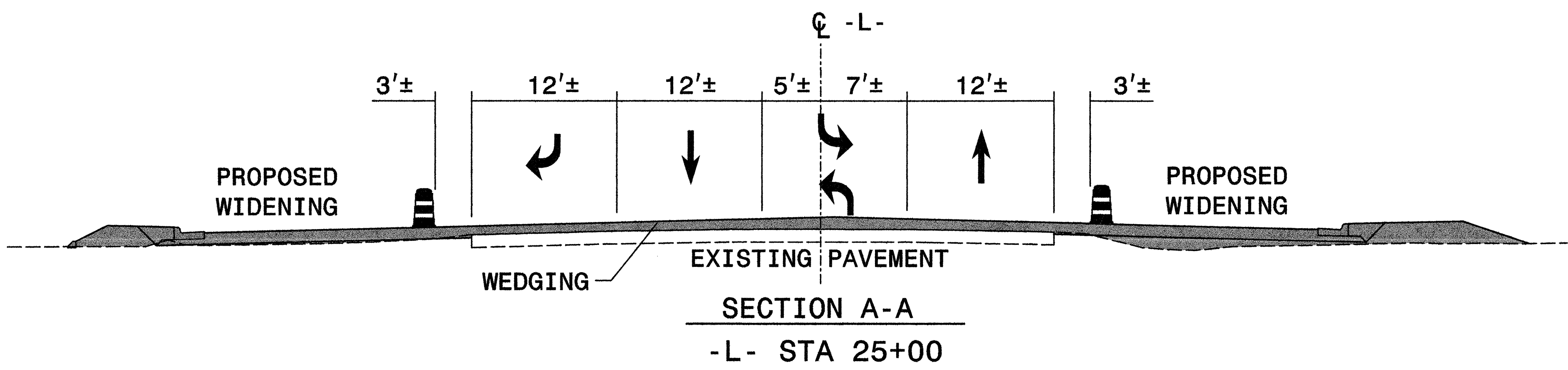
APPROVED: *Michael T. Zeena* DATE: 11-26-08



PHASE I OVERVIEW AND PHASING

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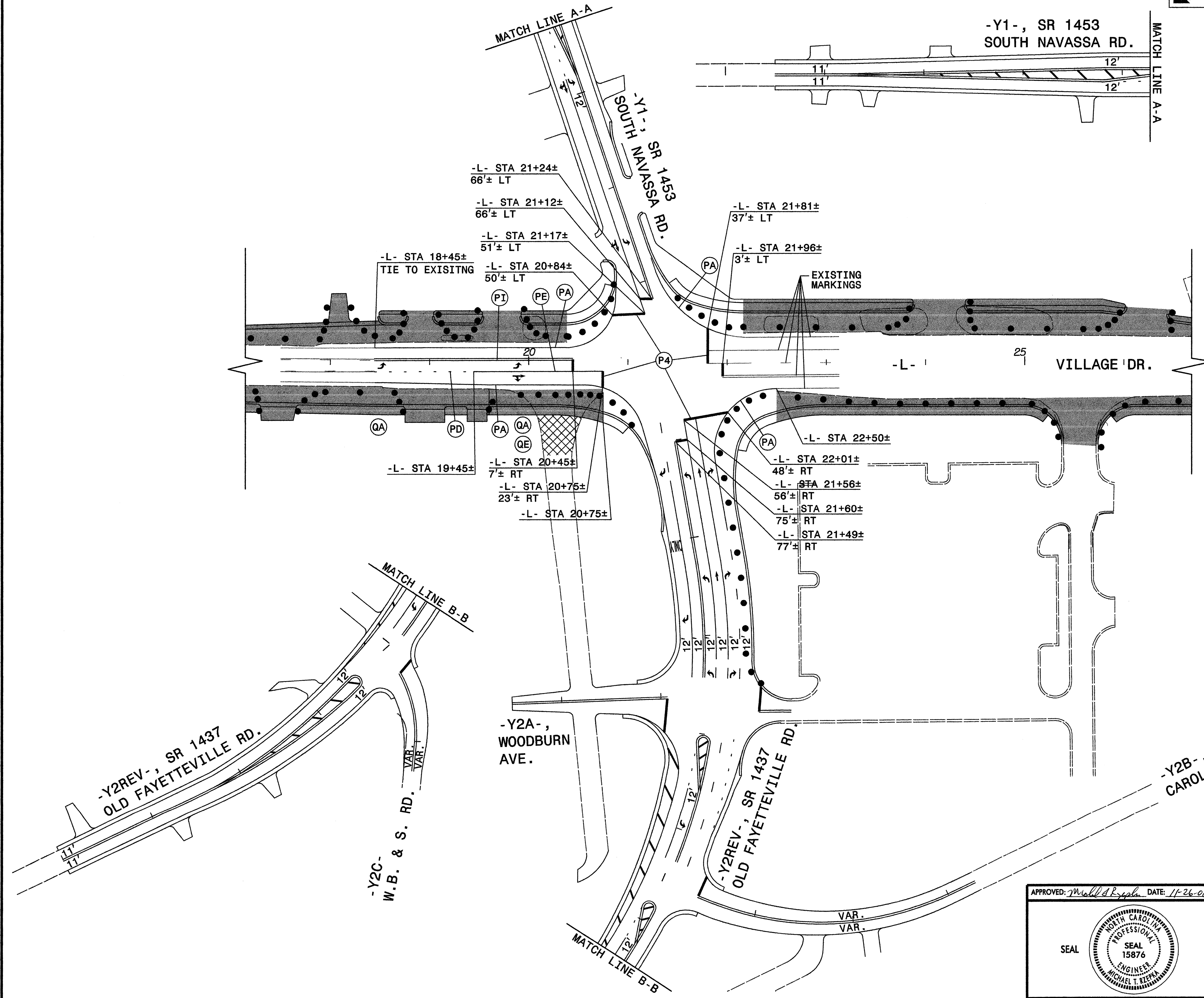


APPROVED: *Michael T. Rzepka* DATE: 11-26-08

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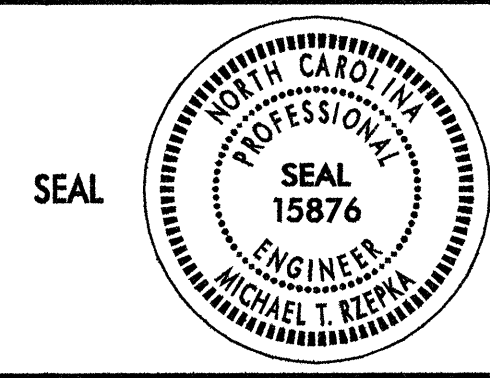
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USE SHEETS PM-2 & PM-3 FOR TEMPORARY (PAINT) MARKING LOCATIONS ON -Y1-, -Y2REV-, -Y2A-, -Y2B- & -Y2C-

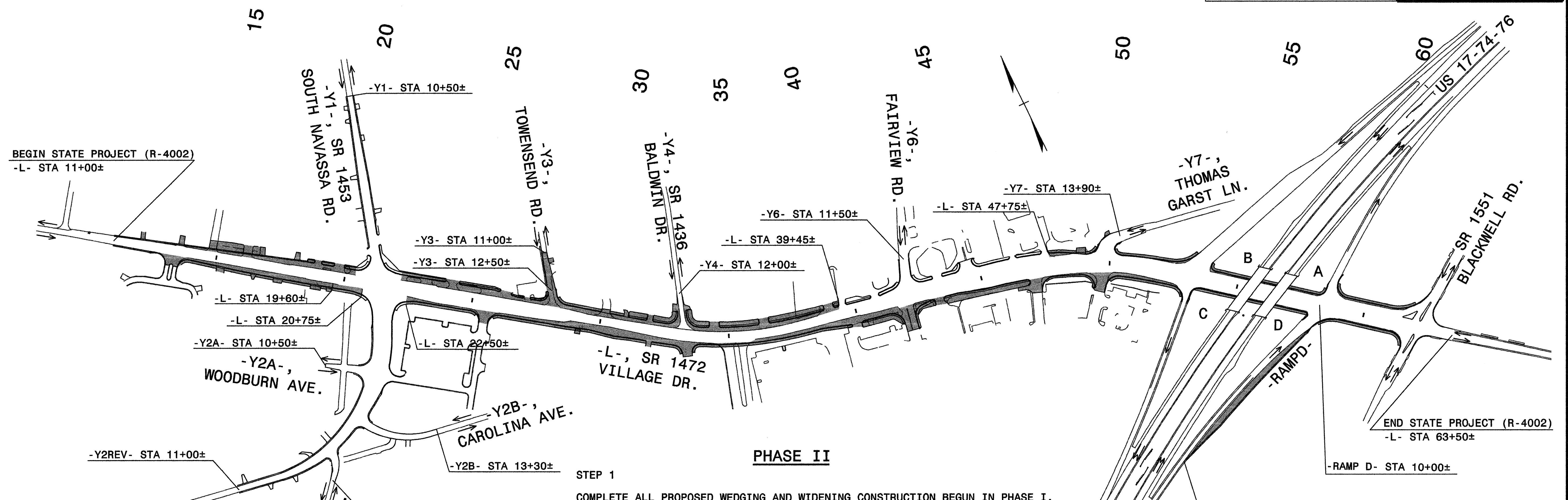
APPROVED: *Michael T. Eze* DATE: 11-26-08



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PHASE II

- STEP 1**
 COMPLETE ALL PROPOSED WEDGING AND WIDENING CONSTRUCTION BEGUN IN PHASE I.
 USING ROADWAY STANDARD DRAWING 1101.02 (SHEETS 1 & 2 OF 9), INSTALL ALL PROPOSED TRAFFIC SIGNALS WITHIN PROJECT LIMITS (SEE SIGNAL PLANS).
- STEP 2**
 USING ROADWAY STANDARD DRAWING 1101.02 (SHEETS 1 & 2 OF 9), COMPLETE THE FOLLOWING (SEE SHEETS TCP-8 THRU 11):
- PLACE TEMPORARY PAVEMENT MARKINGS AND MARKERS ON VILLAGE DR. (-L-). SHIFT STOP BARS ON -Y- LINES.
 - SHIFT TRAFFIC ON VILLAGE DR. (-L-) TO TWO-LANE/TWO-WAY DIVIDED PATTERN.
 - ACTIVATE PROPOSED SIGNALS.
 - PLACE DRUMS IN MEDIAN LANE ALONG OUTSIDE PROPOSED LANE ON VILLAGE DR. (-L-)
- STEP 3**
 AWAY FROM TRAFFIC, CONSTRUCT PROPOSED RAISED AND MONOLITHIC ISLANDS ON -L- AND -Y- LINE ENTRANCES (SEE ROADWAY PLANS & SEE SHEETS TCP-8 THRU 11).
 COMPLETE PROPOSED DRAINAGE BEGUN IN PHASE I.
 COMPLETE INSTALLATION OF PROPOSED LIGHTING AND GUARDRAIL IN EXISTING MEDIAN OF US 17-74-76.
- STEP 4**
 USING ROADWAY STANDARD DRAWING 1101.02 (SHEETS 1, 2, 4 & 7 OF 9), COMPLETE THE FOLLOWING:
- PLACE FINAL LAYER OF SURFACE COURSE ON -L- LINE, RAMP D AND ALL -Y- LINES WITHIN PROJECT LIMITS AS REQUIRED IN ROADWAY PLANS.
 - INSTALL PAVEMENT MARKING LINES AND SYMBOLS (THERMOPLASTIC) AND MARKERS (SNOWPLOWABLE RAISED) (REFER TO SHEETS PM-2 THROUGH PM-5).
- STEP 5**
 REMOVE ALL TRAFFIC CONTROL DEVICES.

LEGEND

PROPOSED CONSTRUCTION

APPROVED: *Michael T. Ezer* DATE: 11/26/08

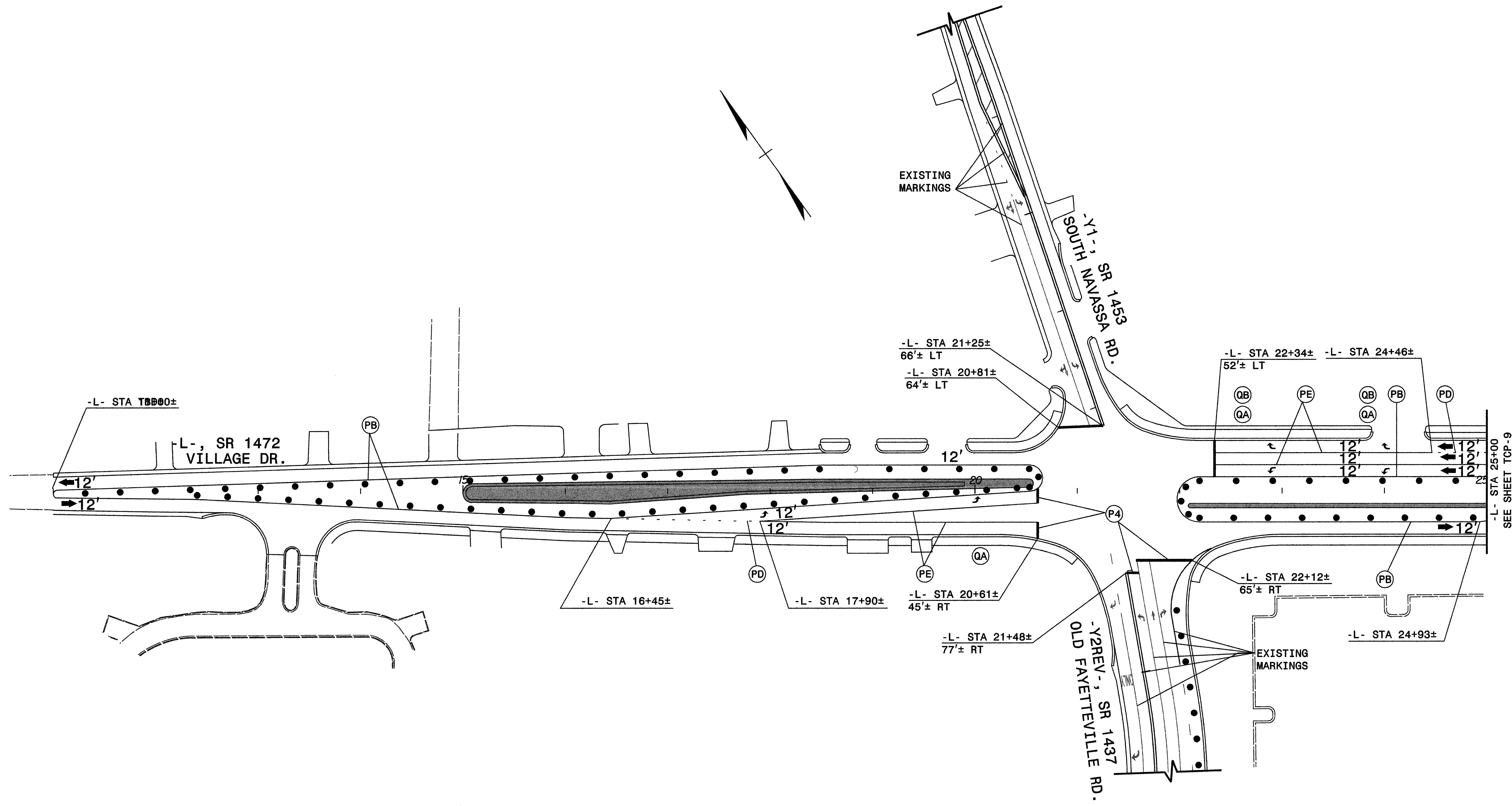
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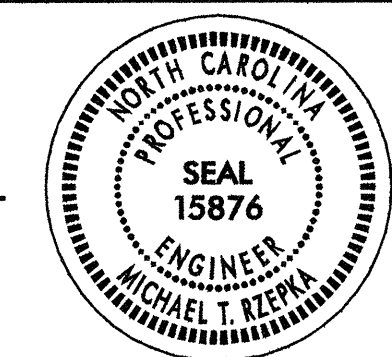
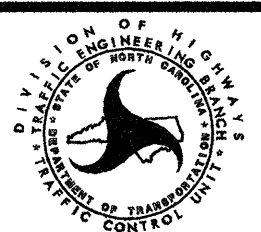
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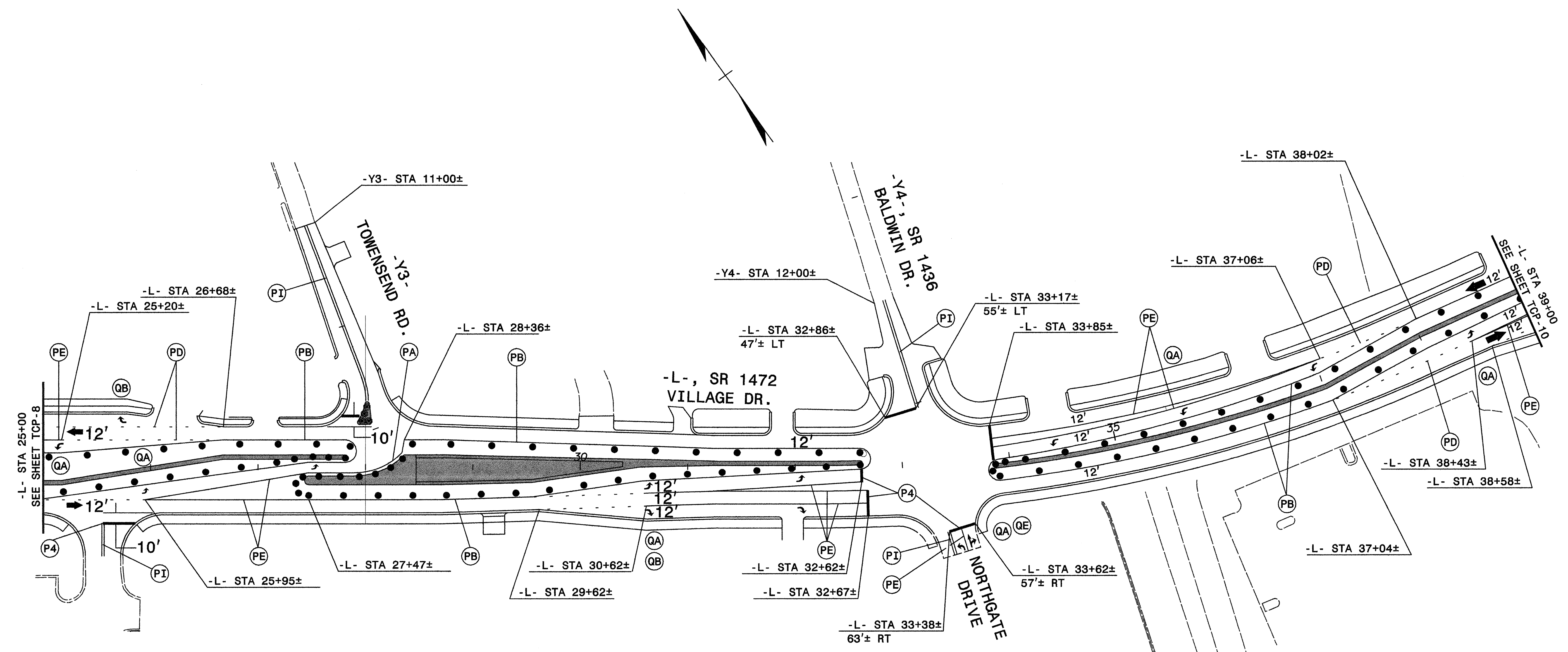
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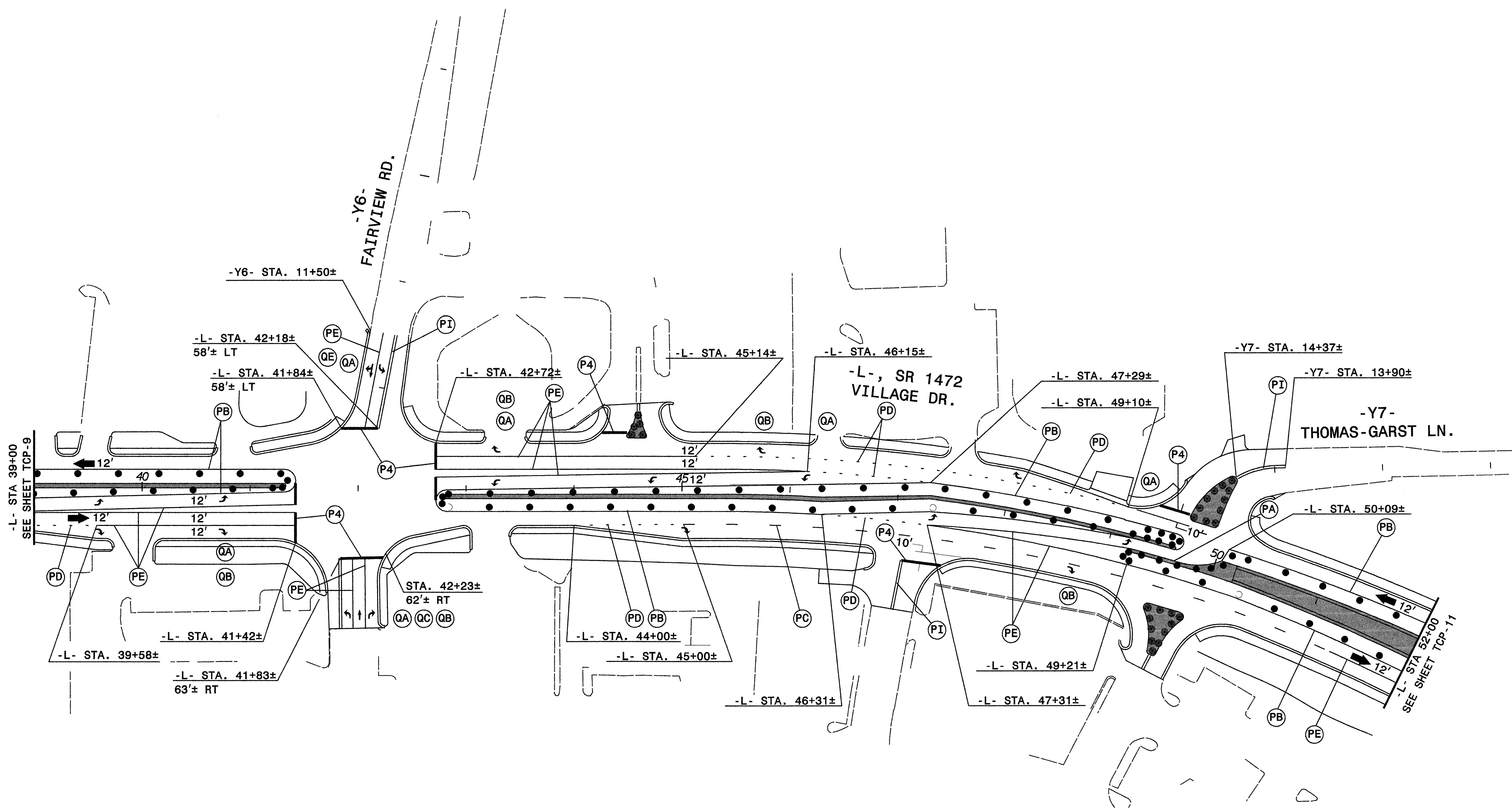
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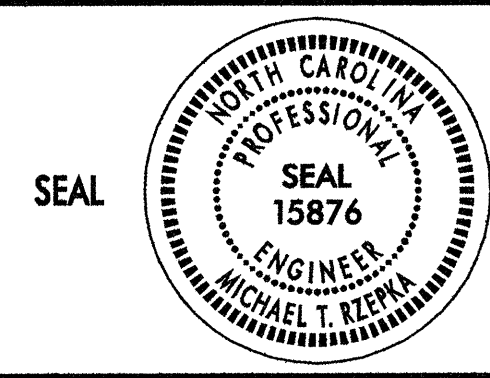
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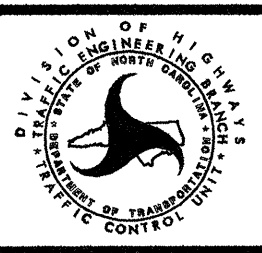
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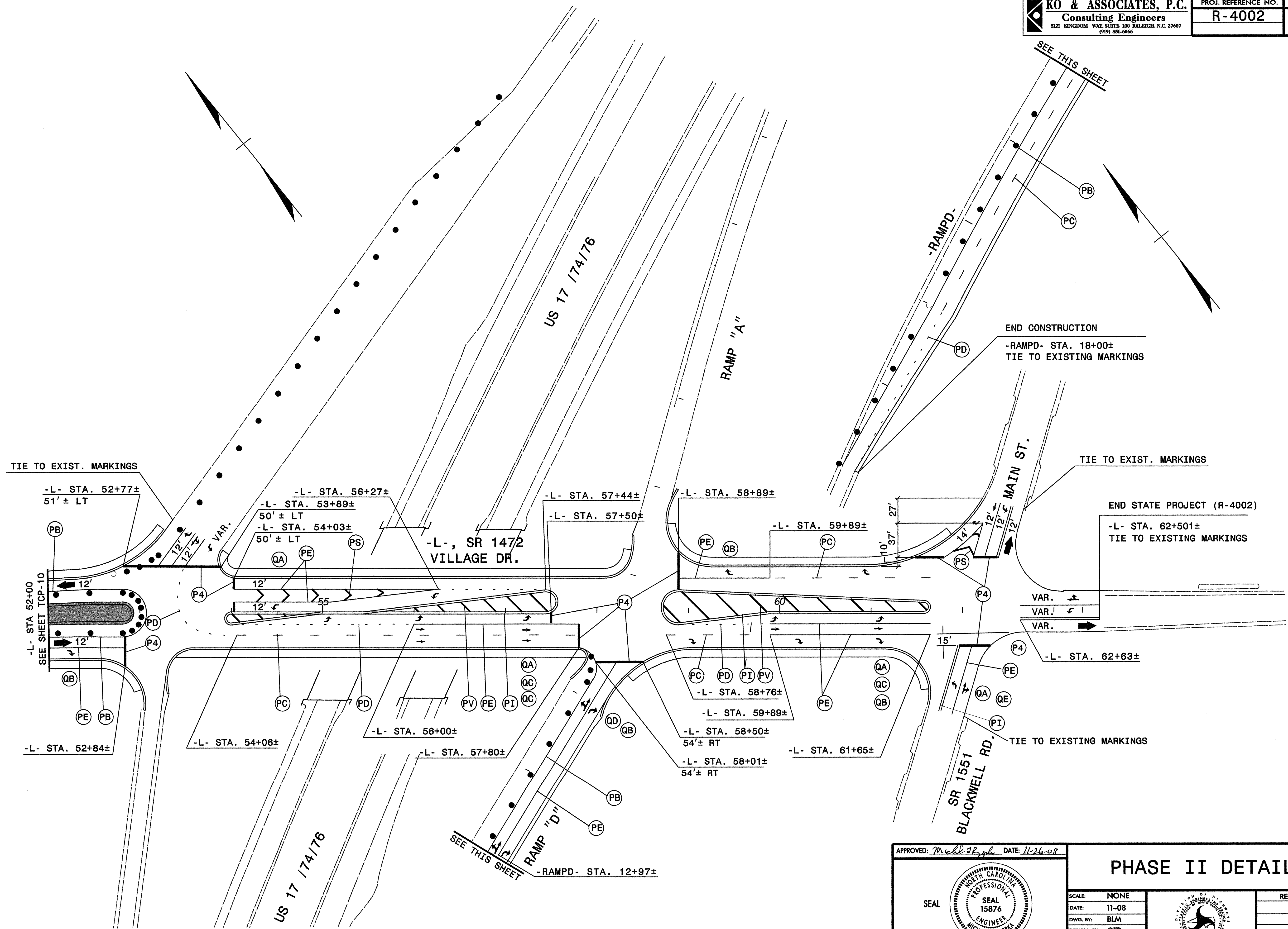


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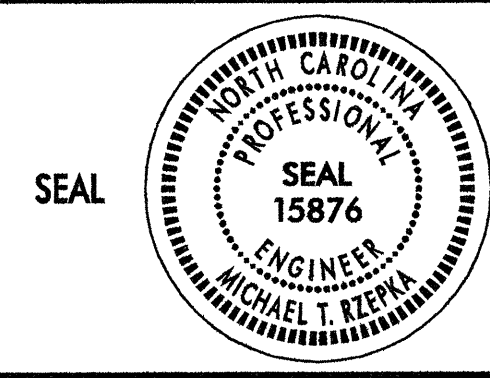


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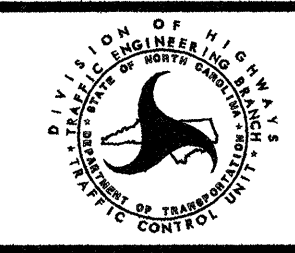
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APPROVED: *Michael T. Ezer* DATE: 11-26-08



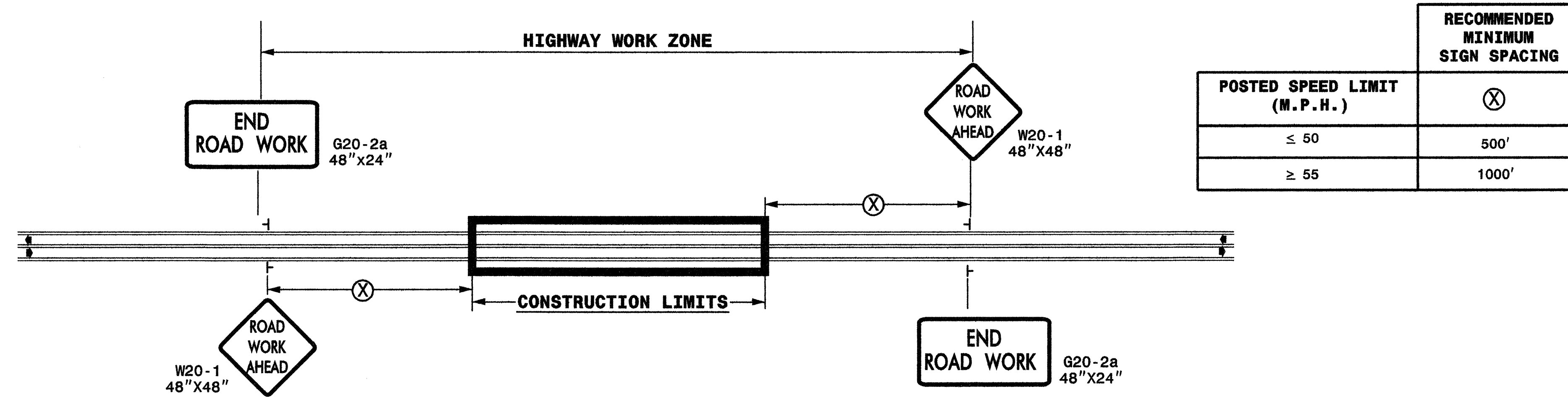
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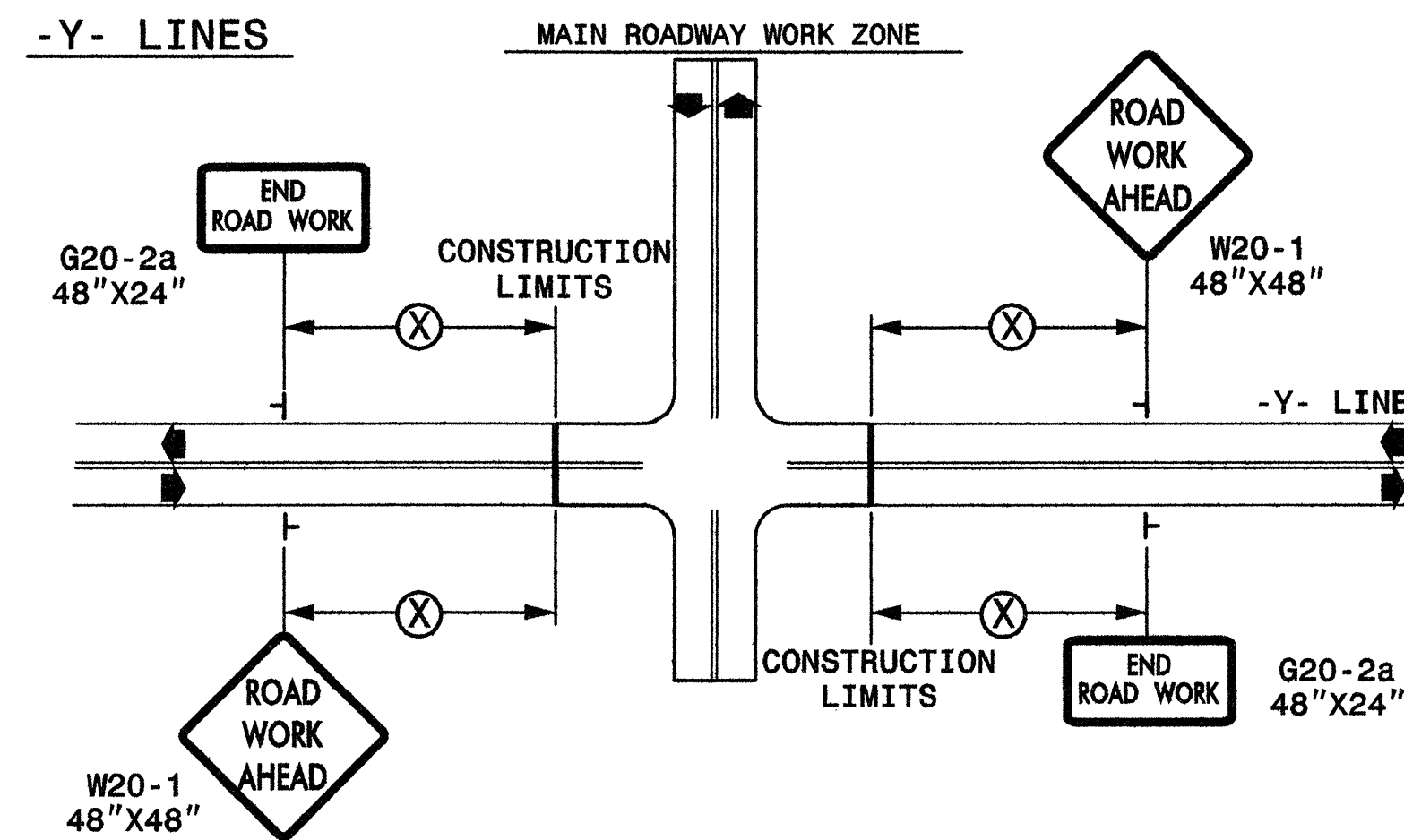


REVISIONS	

TWO-WAY UNDIVIDED ** (L-LINES)



ROADWAYS INTERSECTING ALONG 2 WAY UNDIVIDED WORK ZONE (Y-LINES)



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.
- ** TWO-WAY UNDIVIDED ADVANCE WARNING SIGN CONFIGURATION MAY BE USED ON URBAN MULTI-LANE FACILITIES WHERE CONDITIONS LIMIT THE USE OF DUAL MOUNTED SIGNS AS DETERMINED BY THE ENGINEER.

LEGEND

- └ STATIONARY SIGN
- ◀ DIRECTION OF TRAFFIC FLOW

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

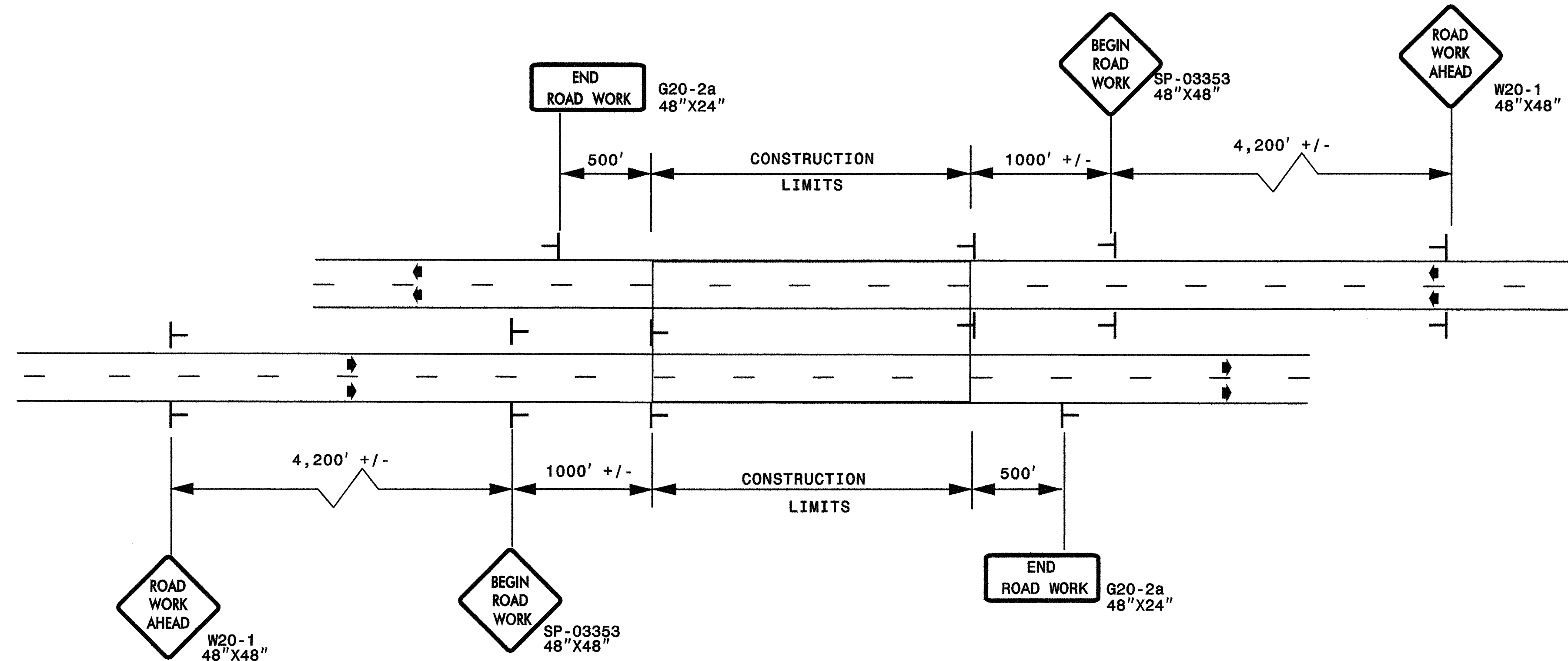
DETAIL DRAWING FOR
 TWO-WAY UNDIVIDED
 WORK ZONE WARNING SIGNS

SHEET 1 OF 1

APPROVED: <i>Michael T. Zeppan</i> DATE: 11-26-08	DETAIL DRAWING FOR TWO-WAY UNDIVIDED AND URBAN FREEWAYS ADVANCED WORK ZONE WARNING SIGNS		
	SCALE: NONE		
	DATE: 11-08		REVISIONS
	DWG. BY: BLM		
	DESIGN BY: GEP		
	REVIEWED BY: MTR	CADD FILE	

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

DETAIL A

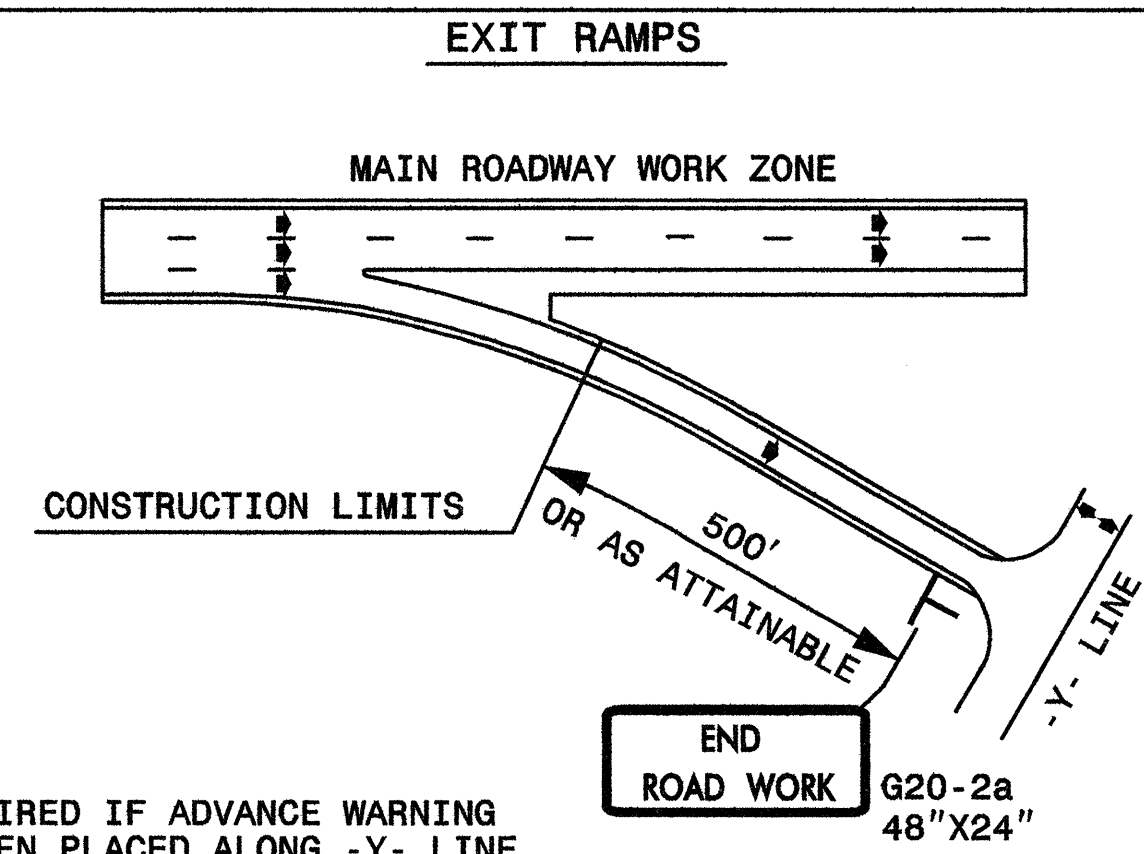


LEGEND

— STATIONARY SIGN

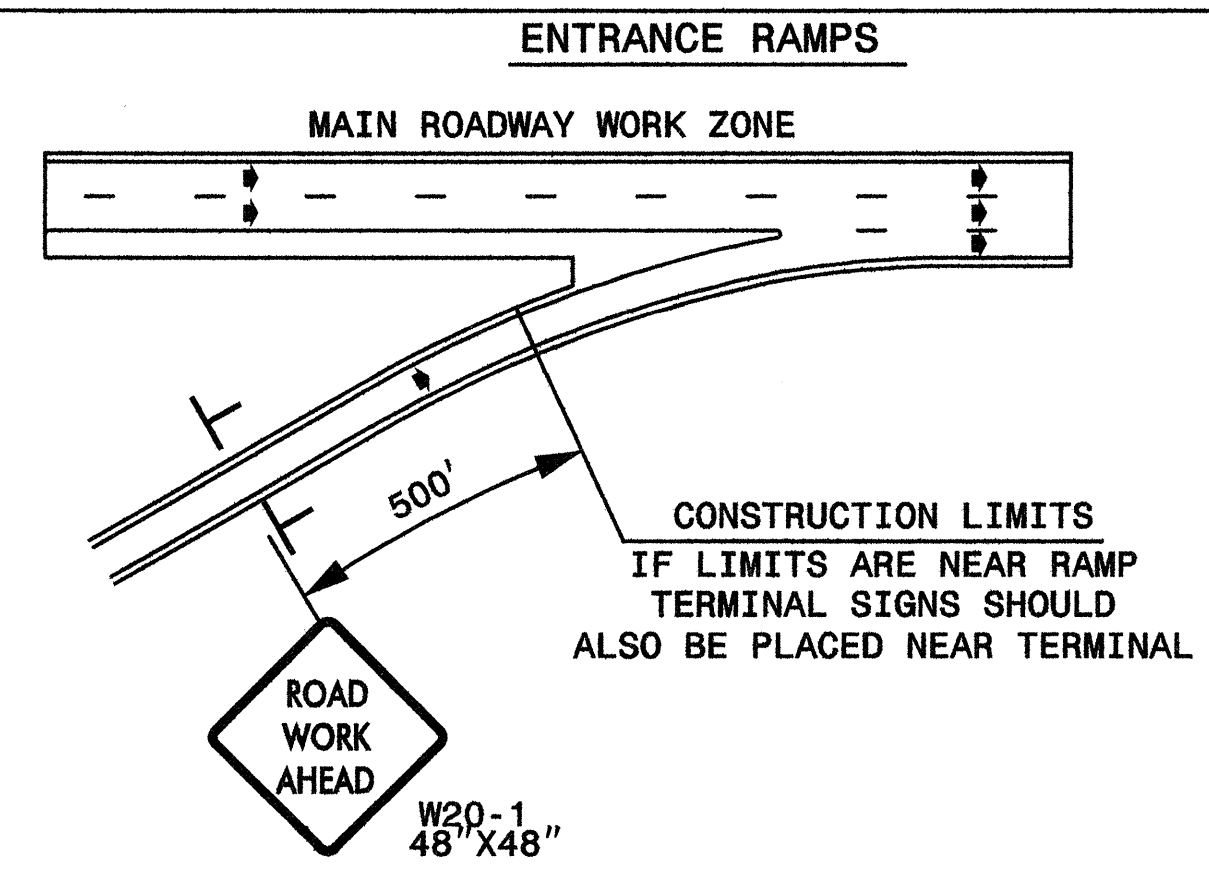
◆ DIRECTION OF TRAFFIC FLOW

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.

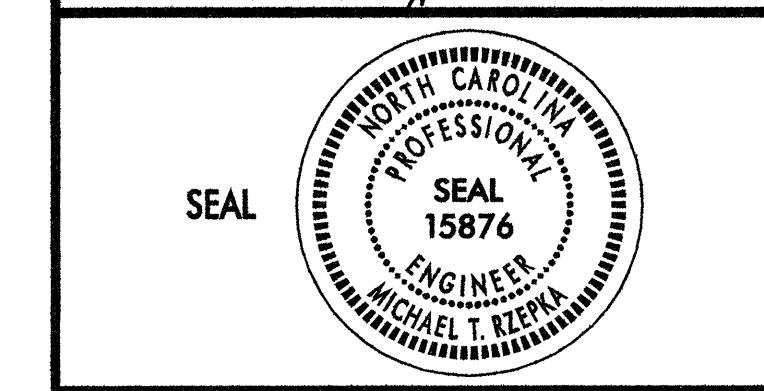
DETAIL C



GENERAL NOTES

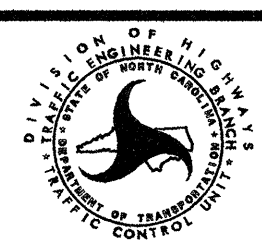
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- DO NOT INSTALL ADVANCE WARNING SIGNS MORE THAN 3 DAYS PRIOR TO BEGINNING OF WORK.
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- DO NOT BACK BRACE SIGN SUPPORTS.

APPROVED: *Michael T. Rzepka* DATE: 11-26-08



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

SCALE: NONE
 DATE: 11-08
 DWG. BY: BLM
 DESIGN BY: GEP
 REVIEWED BY: MTR



REVISIONS	

