

STATE OF NORTH CAROLINA  
DIVISION OF HIGHWAYS



STATE PROJECT REFERENCE NO.	SHEET NO.
R-2814A	TCP-1

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

R-2814A

**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
1101.05	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	DRUM
1135.01	CONES
1145.01	BARRICADES
1150.01	FLAGGING DEVICES
1165.01	TRUCK MOUNTED IMPACT ATTENUATOR
1205.01	PAVEMENT MARKINGS - LINE TYPES & OFFSETS
1205.02	PAVEMENT MARKINGS - 2 LANE & MULTILANE ROADWAYS
1205.04	PAVEMENT MARKINGS - INTERSECTIONS
1205.05	PAVEMENT MARKINGS - TURN LANES
1205.06	PAVEMENT MARKINGS - THRU LANE DROPS
1205.08	PAVEMENT MARKINGS - SYMBOLS & WORD MESSAGES
1205.09	PAVEMENT MARKINGS - PAINTED ISLANDS
1250.01	PAVEMENT MARKER SPACING
1251.01	RAISED PAVEMENT MARKERS (TEMPORARY & PERMANENT)
1261.01	GUARDRAIL & BARRIER DELINEATOR SPACING
1261.02	GUARDRAIL & BARRIER DELINEATOR TYPES
1262.01	GUARDRAIL END DELINEATION
1264.01	OBJECT MARKERS
1264.02	PLACEMENT OF OBJECT MARKERS

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TCP-23	ADVANCED WORK ZONE WARNING SIGNS FOR FREEWAYS (4 LANES OR GREATER)
SD-1	SPECIAL SIGN DESIGN

**LEGEND**

- GENERAL**
- DIRECTION OF TRAFFIC FLOW
  - NORTH ARROW
  - PROPOSED PVMT. EXIST. PVMT.
  - WORK AREA
  - REMOVAL OF EXISTING PAVEMENT
- TRAFFIC CONTROL DEVICES**
- TYPE III BARRICADE
  - CONE
  - DRUM
  - FLASHING ARROW PANEL (TYPE C)
  - STATIONARY SIGN
  - PORTABLE SIGN
  - CHANGEABLE MESSAGE SIGN
  - TRUCK MOUNTED IMPACT ATTENUATOR (TMIA)
  - POLICE
  - FLAGGER
- PAVEMENT MARKINGS**
- CRYSTAL/CRYSTAL PAVEMENT MARKER
  - YELLOW/YELLOW PAVEMENT MARKER
  - CRYSTAL/RED PAVEMENT MARKER
  - PAVEMENT MARKING SYMBOLS

TIP PROJECT:

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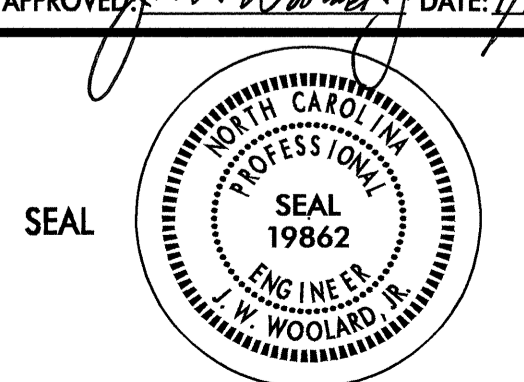
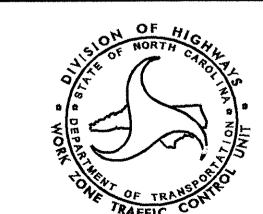
APPROVED: DATE: 9/02/09	PLAN PREPARED BY: N.C.D.O.T. WORK ZONE TRAFFIC CONTROL UNIT
SEAL:	J. S. BOURNE, P.E. TRAFFIC CONTROL ENGINEER
	L. W. GETTIER, P.E. TRAFFIC CONTROL PROJECT ENGINEER
	J. W. WOOLARD, P.E. TRAFFIC CONTROL PROJECT DESIGN ENGINEER
	D. A. HAYES, E.I. TRAFFIC CONTROL DESIGN ENGINEER / TECHNICIAN

## TEMPORARY PAVEMENT MARKING SCHEDULE

### TEMPORARY PAVEMENT MARKINGS

- CB COLD APPLIED PLASTIC (100MM) Type4 - Removable Tape  
YELLOW EDGELINE
  
- DD COLD APPLIED PLASTIC PAVEMENT MARKING SYMBOL Type4 - Removable Tape  
COMBO.STRAIGHT/LEFT
  
- PAINT(100MM)
  - PA WHITE EDGELINE (2X)
  - PB YELLOW EDGELINE (2X)
  - PC 3 M. WHITE SKIP (2X)
  - PD 0.5 M. WHITE MINISKIP (2X)
  - PE WHITE SOLID LANE LINE (2X)
  - PI YELLOW DOUBLE CENTER (2X)
  
- PAINT(150MM)
  - PN 3 M. YELLOW SKIP (2X)
  
- PAINT(200MM)
  - PV YELLOW DIAGONAL (2X)
  
- PAINT(600MM)
  - P4 WHITE STOPBAR (2X)
  
- PAINTMARKING SYMBOLS
  - QA LEFT TURN ARROW (2X)
  - QB RIGHT TURN ARROW (2X)
  - QC STRAIGHT ARROW (2X)
  - QE COMBO.STRAIGHT/RIGHT (2X)
  - QG LEFT/RIGHT/STRAIGHT (2X)
  
- PAINTMARKING CHARACTERS
  - QI ALPHANUMERIC CHAR. (2X)
  
- TEMPORARY RAISED PAVEMENT MARKERS
  - MH YELLOW & YELLOW
  - MI CRYSTAL & RED

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APPROVED: <i>J. W. Woolard</i> DATE: 9/6/09 	<h3 style="margin: 0;">TEMPORARY PAVEMENT MARKING SCHEDULE</h3>	<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: left;">REVISIONS</th> </tr> </thead> <tbody> <tr><td> </td></tr> <tr><td> </td></tr> <tr><td> </td></tr> <tr><td> </td></tr> </tbody> </table>	REVISIONS				
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PROJ. REFERENCE NO.	SHEET NO.
R-2814A	TCP-2

## GENERAL 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
1. US 401 (LOUISBURG RD)	MONDAY - FRIDAY 7:00 A.M. - 10:00 A.M. 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
1. -L-, US 401 (LOUISBURG RD)

### HOLIDAY

- FOR ANY UNEXPECTED OCCURRENCE THAT CREATES UNUSUALLY HIGH TRAFFIC VOLUMES, AS DIRECTED BY THE ENGINEER.
- 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 P.M. THE FOLLOWING TUESDAY.
- FOR EASTER, BETWEEN THE HOURS OF 7:00 A.M. THURSDAY AND 7:00 P.M. MONDAY.
- FOR MEMORIAL DAY, BETWEEN THE HOURS OF 7:00 A.M. FRIDAY TO 7:00 P.M. TUESDAY.
- 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.
- FOR LABOR DAY, BETWEEN THE HOURS OF 7:00 A.M. FRIDAY AND 7:00 P.M. TUESDAY.
- FOR THANKSGIVING DAY, BETWEEN THE HOURS OF 7:00 A.M. TUESDAY TO 7:00 P.M. MONDAY.
- 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 CONDUCT MULTI-VEHICLE HAULING AS FOLLOWS:

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

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

### LANE AND SHOULDER CLOSURE REQUIREMENTS

- E) REMOVE LANE CLOSURE DEVICES FROM THE LANE WHEN WORK IS NOT BEING PERFORMED BEHIND THE LANE CLOSURE OR WHEN A LANE CLOSURE IS NO LONGER NEEDED, OR AS DIRECTED BY THE ENGINEER.
- F) WHEN PERSONNEL AND/OR EQUIPMENT ARE WORKING WITHIN 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.
- 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 MI. (4 KM) 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 1.2 MI. (2 KM) 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 A 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

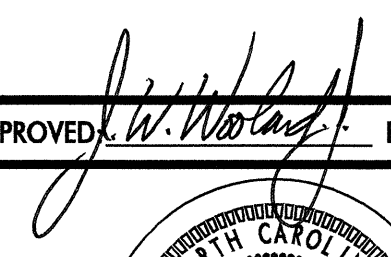
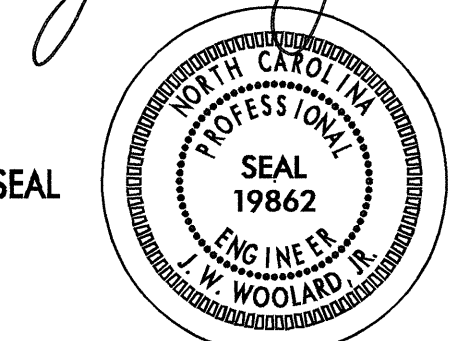
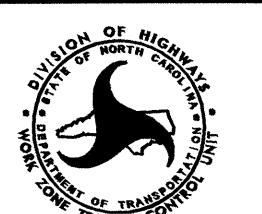
### TRAFFIC PATTERN ALTERATIONS

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 AND 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 AND 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.

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	DESIGN BY: DAH		
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PROJ. REFERENCE NO.	SHEET NO.
R-2814A	TCP-2A

## GENERAL NOTES

- 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

### TRAFFIC CONTROL DEVICES

- V) 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.
- 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 PERPENDICULAR TO THE EDGE OF TRAVELWAY ON 500 FT CENTERS WHEN UNOPENED LANES ARE CLOSED TO TRAFFIC.

### PAVEMENT MARKINGS AND MARKERS

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

ROAD NAME	MARKING	MARKER
1. -L- (US 401 LOUISBURG RD)	PAINT	RAISED
2. ALL -Y- LINES	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 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) POLICE MAY BE USED TO MAINTAIN TRAFFIC THROUGH THE WORK AREA AND/OR INTERSECTIONS, AS DIRECTED BY THE ENGINEER.
- GG) IN THE EVENT A TIE-IN CANNOT BE MADE IN ONE DAYS TIME, BRING THE TIE-IN AREA TO AN APPROPRIATE ROADWAY ELEVATION, AS DETERMINED BY THE ENGINEER. PLACE BLACK ON ORANGE "LOOSE GRAVEL" SIGNS (W8-7) AND BLACK ON ORANGE "PAVEMENT ENDS" SIGNS (W8-3) AS SHOWN BELOW RESPECTIVELY IN ADVANCE OF THE UNEVEN AREAS. USE DRUMS TO DELINEATE THE EDGE OF ROADWAY ALONG UNPAVED AREAS.

POSTED SPEED LIMIT	DISTANCE BETWEEN SIGNS
35 OR LESS	200 FT
45 - 50	350 FT
55	500 FT

- HH) ALL WHEEL CHAIR RAMP LOCATIONS SHALL BE DERIVED FROM STATIONING SHOWN ON PAVEMENT MARKING PLANS OR AS DIRECTED BY THE ENGINEER IN COORDINATION WITH THE SIGNING AND DELINEATION UNIT.

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### PHASE I

STEP 1) INSTALL ADVANCE WORK ZONE WARNING SIGNS NO MORE THAN THREE (3) DAYS PRIOR TO THE BEGINNING OF CONSTRUCTION. WHEN NO WORK IS BEING CONDUCTED FOR A PERIOD LONGER THAN ONE WEEK, REMOVE OR COVER ALL ADVANCE WORK ZONE WARNING SIGNS, AS DIRECTED BY THE ENGINEER, AT NO COST TO THE DEPARTMENT (SEE TCP-24).

STEP 2) USING ROADWAY STANDARD DRAWING (RSD) 1101.02, SHEET 1 OF 9 AS NEEDED CONSTRUCT THE FOLLOWING UP TO BUT NOT INCLUDING THE FINAL LIFT OF SURFACE COURSE (SEE TCP-4 THRU 12):

- L- NORTHBOUND FROM STA. 12+11 -L- TO STA. 45+41 -L-
- Y1-
- Y6-
- Y8- FROM STA. 12+00 -Y8- TO -L-
- Y10-

TRAFFIC SHALL RETURN TO THE EXISTING PATTERN AT THE END OF THE WORKDAY.

USING ROADWAY STANDARD DRAWING (RSD) 1101.02, SHEET 1 OF 9 AS NEEDED CONSTRUCT THE FOLLOWING UP TO THE EXISTING EDGE AND ELEVATION (SEE TCP-5 & 11):

- L- NORTHBOUND FROM STA. 10+35 -L- TO STA. 12+11 -L-
- WIDEN -L- SOUTHBOUND FROM STA. 44+54 -L- TO STA. 47+30 -L-
- Y8- FROM STA. 11+42 +/- -Y8- TO STA. 12+00 -Y8-

TRAFFIC SHALL RETURN TO THE EXISTING PATTERN AT THE END OF THE WORKDAY.

INSTALL OFFSITE DETOUR SIGNS AND USING RSD 1101.03, SHEETS 1 & 2 OF 9, DETOUR TRAFFIC OFFSITE AND CLOSE -Y4-. AWAY FROM TRAFFIC AND BEHIND BARRICADES CONSTRUCT -Y4- UP TO BUT NOT INCLUDING THE FINAL LIFT OF SURFACE COURSE (SEE TCP-9 & 13).

AWAY FROM TRAFFIC AND BEHIND BARRICADES CONSTRUCT -Y8- UP TO BUT NOT INCLUDING THE FINAL LIFT OF SURFACE COURSE (SEE TCP-8).

BEGIN THE INSTALLATION OF ALL TEMPORARY SIGNALS.

STEP 3) USING RSD 1101.02, SHEET 1 OF 9 WEDGE THE -L- SOUTHBOUND/-Y8- INTERSECTION ,THE TIE IN OF THE -L- NORTHBOUND/-Y8- INTERSECTION WITH EXISTING -L-, AND -Y8- FROM STA. 11+42 +/- -Y8- TO STA. 12+00 -Y8- AND FROM STA. 44+54 -L- TO STA. 49+29 -L-. WEDGE EXISTING -L- AS NEEDED TO MATCH THE PROPOSED -L- SOUTHBOUND GRADE.

SHIFT TRAFFIC ONTO -Y8-, CLOSE EXISTING -Y8- TO THRU TRAFFIC, AND PLACE TEMPORARY MARKINGS, TEMPORARY MARKERS, AND TUBULAR MARKERS ON -Y8- FROM STA. 11+42 +/- -Y8- TO STA. 12+65 -Y8-. PLACE TEMPORARY MARKINGS AND TEMPORARY MARKERS ON WEDGED SECTION OF -L- SOUTHBOUND USING EXISTING PATTERN. REMOVE EXISTING -Y8- (SEE TCP-21 & 22).

AWAY FROM TRAFFIC AND BEHIND BARRICADES CONSTRUCT -Y3- UP TO BUT NOT INCLUDING THE FINAL LIFT OF SURFACE COURSE (SEE TCP-6).

### PHASE II

STEP 1) AWAY FROM TRAFFIC INSTALL TEMPORARY PAVEMENT MARKINGS AND MARKERS ON THE FOLLOWING (SEE TCP-14 THRU 21):

- L- NORTHBOUND FROM STA. 12+11 -L- TO STA. 44+54 -L-
- Y4-

STEP 2) USING RSD 1101.02, SHEET 1 OF 9, INSTALL TEMPORARY PAVEMENT MARKINGS AND MARKERS ON -L- NORTHBOUND FROM STA. 10+35 -L- TO STA. 12+11 -L- (SEE TCP-14).

USING RSD 1101.02, SHEET 1 OF 9, REMOVE CONFLICTING MARKINGS AND MARKERS FROM STA. 10+00 -L- TO STA. 12+11 -L- AND FROM STA. 44+54 -L- TO STA. 46+77 -L-, SHIFT TRAFFIC ONTO NEW TRAFFIC PATTERN, AND INSTALL TEMPORARY PAVEMENT MARKINGS AND MARKERS ON -L- FROM STA. 9+72 -L- TO STA. 12+11 -L- AND STA. 44+54 -L- TO STA. 46+77 -L- (SEE TCP-21).

OPEN -Y4- TO TRAFFIC AND REMOVE OFFSITE DETOUR SIGNING.

COMPLETE INSTALLATION OF AND ACTIVATE ALL TEMPORARY SIGNALS.

STEP 3) USING RSD 1101.02, SHEET 1 OF 9 AS NEEDED CONSTRUCT THE FOLLOWING UP TO BUT NOT INCLUDING THE FINAL LIFT OF SURFACE COURSE (SEE TCP-14 THRU 21):

- WEDGE -L- SOUTHBOUND FROM STA. 10+80 -L- TO STA. 12+11 -L-
- Y5-
- Y7-
- L- SOUTHBOUND MEDIAN CURB FROM STA. 11+73 +/- -L- TO STA. 12+11 -L-

TRAFFIC SHALL RETURN TO THE EXISTING PATTERN BY THE END OF THE WORKDAY.

AWAY FROM TRAFFIC CONSTRUCT THE FOLLOWING UP TO BUT NOT INCLUDING THE FINAL LIFT OF SURFACE COURSE (SEE TCP-15, 17, & 21):

- L- SOUTHBOUND FROM STA. 12+11 -L- TO STA. 44+69 -L-
- Y2-

### PHASE III

STEP 1) BEGIN THE INSTALLATION OF ALL FINAL TRAFFIC SIGNALS.

USING RSD 1101.02, SHEET 1 OF 9 AS NEEDED, INSTALL THE FINAL LIFT OF SURFACE COURSE, TEMPORARY AND FINAL PAVEMENT MARKINGS, AND FINAL PAVEMENT MARKERS ON THE FOLLOWING (SEE TCP-22 FOR TEMPORARY MARKING AND MARKER PLACEMENT):

- L- SOUTHBOUND FROM STA. 12+11 -L- TO STA. 49+29 -L-
- L- SOUTHBOUND TWO RIGHT LANES FROM THE LIGON MILL RD/MITCHELL MILL RD INTERSECTION TO STA. 12+11 -L-
- L1- FROM STA. 47+00 -L1- TO STA. 49+10 +/- -L1-
- Y2-
- Y3-
- Y5-
- Y7-

USING RSD 1101.02, SHEET 1 OF 9, SHIFT -L- SOUTHBOUND TRAFFIC ONTO NEW PATTERN. USING DRUMS CLOSE THE INSIDE LANE OF -L- NORTHBOUND AND THE TWO LEFT LANES OF -L- SOUTHBOUND FROM THE LIGON MILL RD/MITCHELL MILL RD INTERSECTION TO STA. 12+11 -L- (SEE TCP-21).

STEP 2) BEHIND LANE CLOSURES, COMPLETE CONSTRUCTION OF -L- SOUTHBOUND AT THE LIGON MILL RD/MITCHELL MILL RD INTERSECTION INCLUDING THE MEDIAN AREA UP TO AND INCLUDING THE FINAL LIFT OF SURFACE COURSE, THE FINAL PAVEMENT MARKINGS, SYMBOLS, AND FINAL PAVEMENT MARKERS FROM STA. 10+35 -L- TO STA. 12+11 -L-. OPEN THE REMAINING SECTION OF -L- SOUTHBOUND TO TRAFFIC (SEE TCP-21 & FINAL PAVEMENT MARKING PLANS).


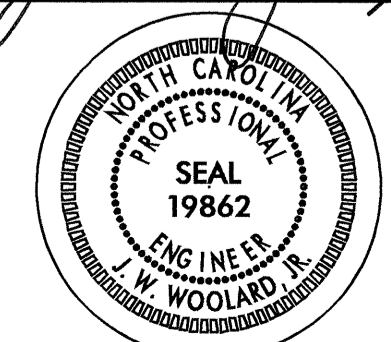

STEP 3) USING RSD 1101.02, SHEET 3 OF 9 AS NEEDED, INSTALL THE FINAL LIFT OF SURFACE COURSE, FINAL PAVEMENT MARKINGS, FINAL PAVEMENT MARKERS, AND TUBULAR MARKERS ON THE FOLLOWING:

- L- NORTHBOUND FROM STA. 10+35 -L- TO STA. 45+00 -L-
- Y1-
- Y4-
- Y6-
- Y8-
- Y10-

COMPLETE ALL FINAL TRAFFIC SIGNAL INSTALLATION.

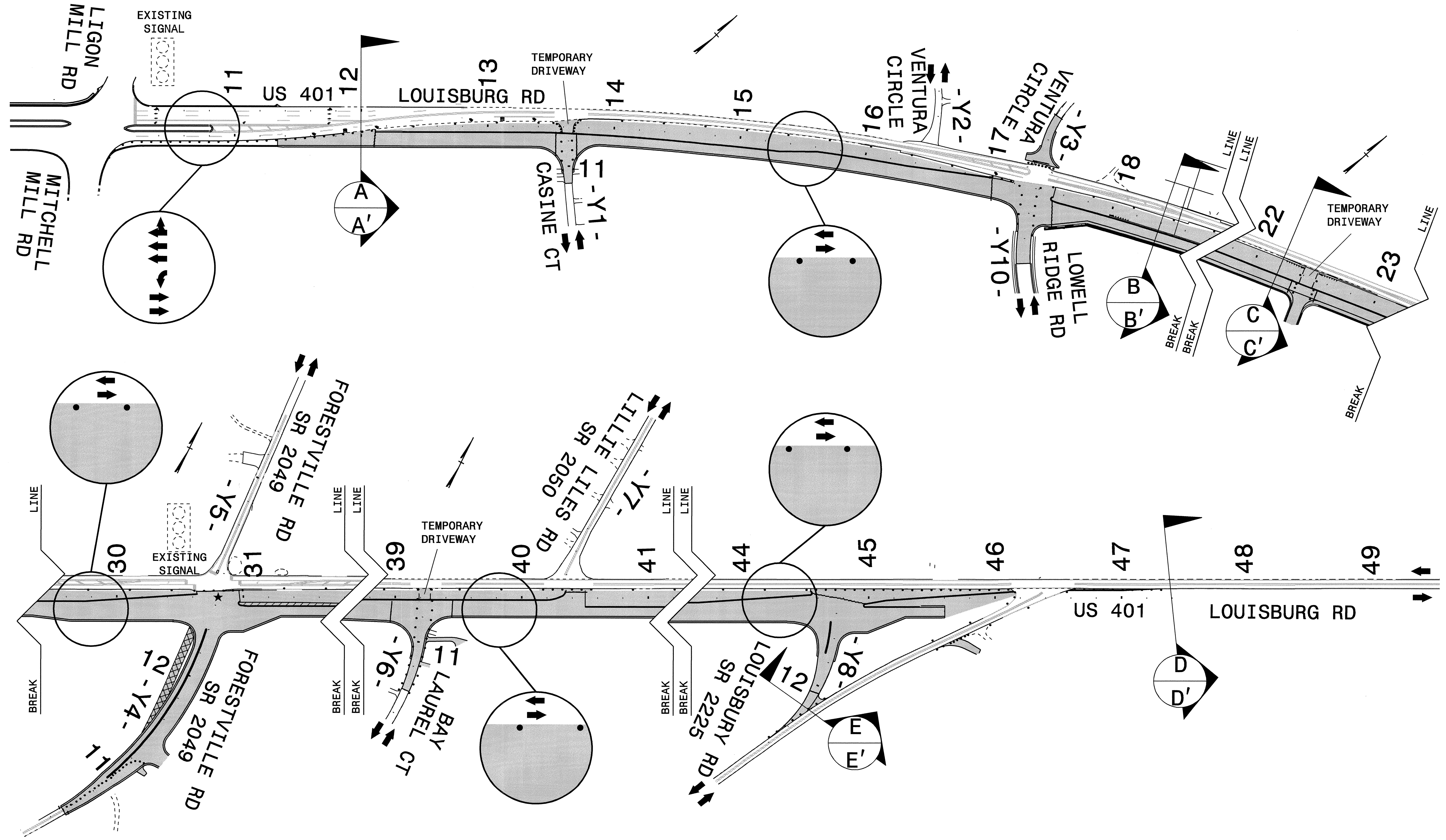
STEP 4) UPON COMPLETION OF ALL CONSTRUCTION OPERATIONS, REMOVE ALL TRAFFIC CONTROL DEVICES AND TEMPORARY SIGNING AND PLACE TRAFFIC IN THE FINAL TRAFFIC PATTERN.

02-SEP-2009 14:42 \\dot\dfsroot\NSP\proj\1101\TrafficControl\Phase I\Phase I\TCP-03\_Phasing.dgn

APPROVED: 	DATE: 9/2/09	<b>PHASING</b>	
SEAL 	SCALE: NONE		REVISIONS
	DATE: 08/09		
	DWG. BY: DAH		
	DESIGN BY: DAH		
	REVIEWED BY: JWW		CADD FILE



PROJ. REFERENCE NO.	SHEET NO.
R-2814A	TCP-4



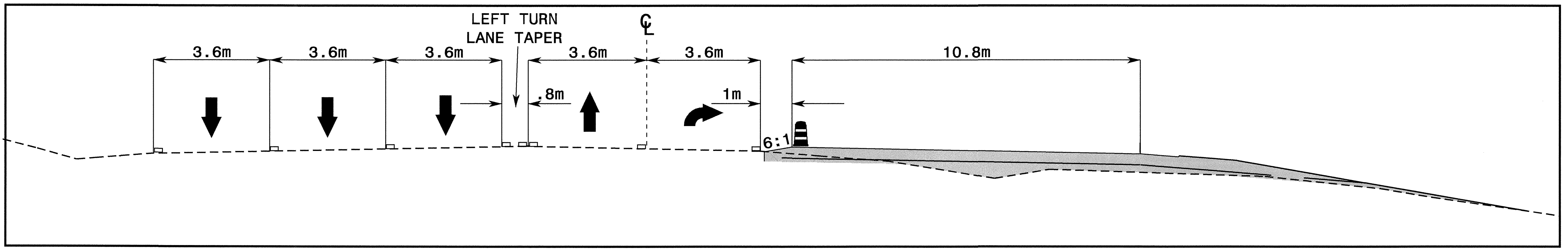
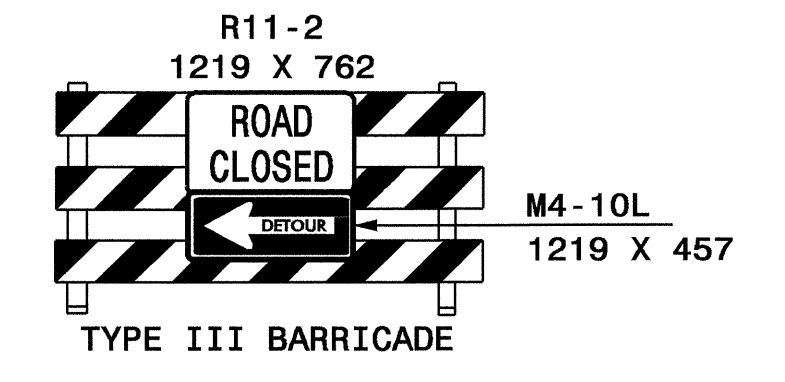
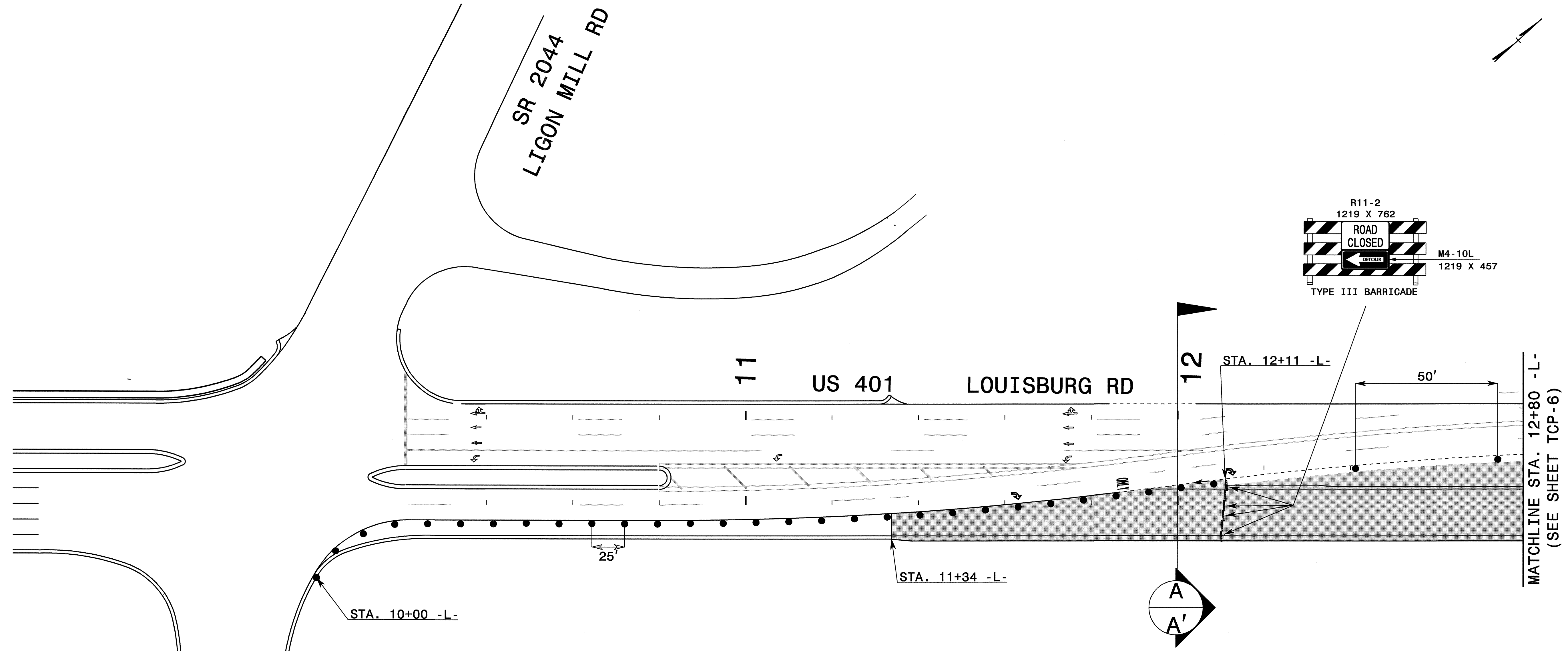
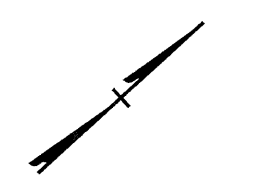
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 AT WZTC244738

NOTE: ALL PAVEMENT MARKINGS SHOWN IN PHASE I DETAILS ARE EXISTING MARKINGS.

APPROVED:	DATE: 9/2/09	<b>PHASE I OVERVIEW</b>	
SEAL			
SCALE: NONE	DATE: 08/09		REVISIONS
DWG. BY: DAH	DESIGN BY: DAH		
REVIEWED BY: JWW			



PROJ. REFERENCE NO.	SHEET NO.
R-2814A	TCP-5



CUT SECTION A-A'  
STA. 12+00 -L-

02-SEP-2009 14:41  
 \\dot\dfs\proj\01\NSP\01\Hiprojects-r\2814a\traffic\control\top\Phase I\NR-2814A\_TC\_TCP\_PHL\_05.dgn  
 chaves AT WZTC24738

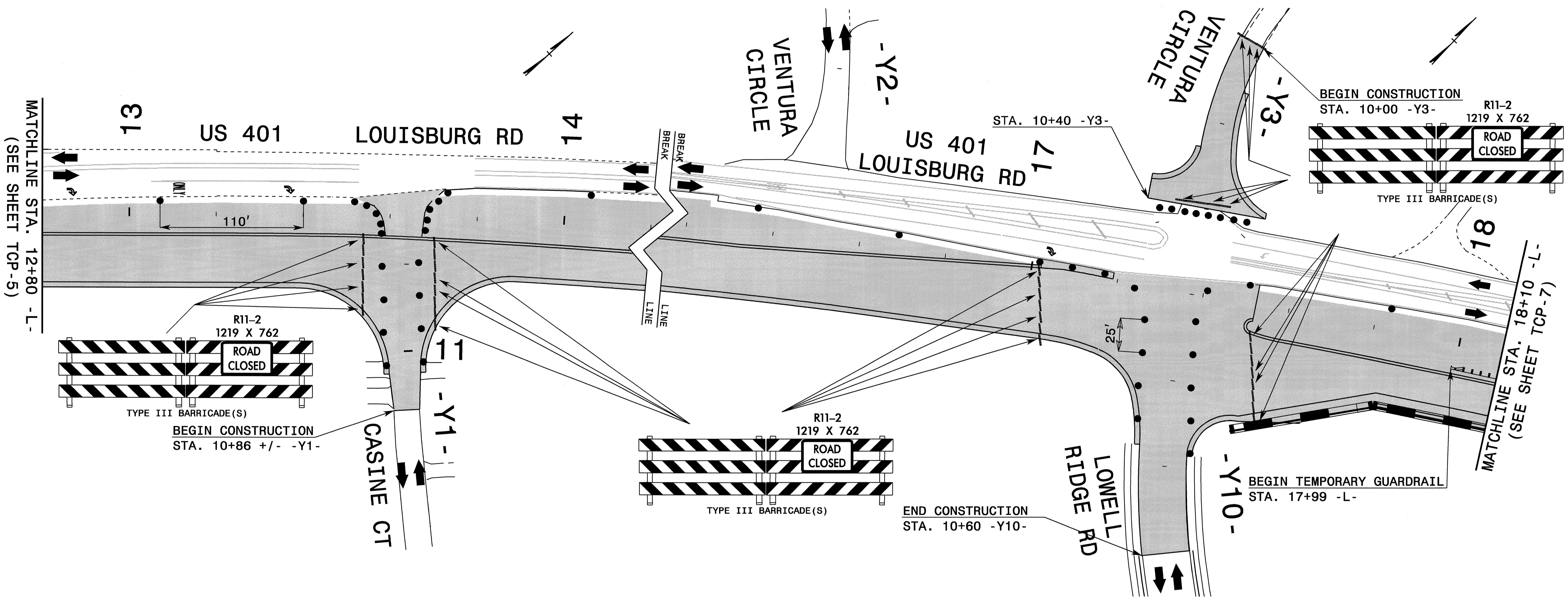
SR 2224  
 MITCHELL MILL RD

SR 2044  
 LIGON MILL RD

APPROVED: <i>J.W. Woolard</i> DATE: 9/02/09	<b>PHASE I DETAIL</b>							
	SCALE: NONE							
	DATE: 08/09							
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	DESIGN BY: DAH							
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PROJ. REFERENCE NO. R-2814A	SHEET NO. TCP-6
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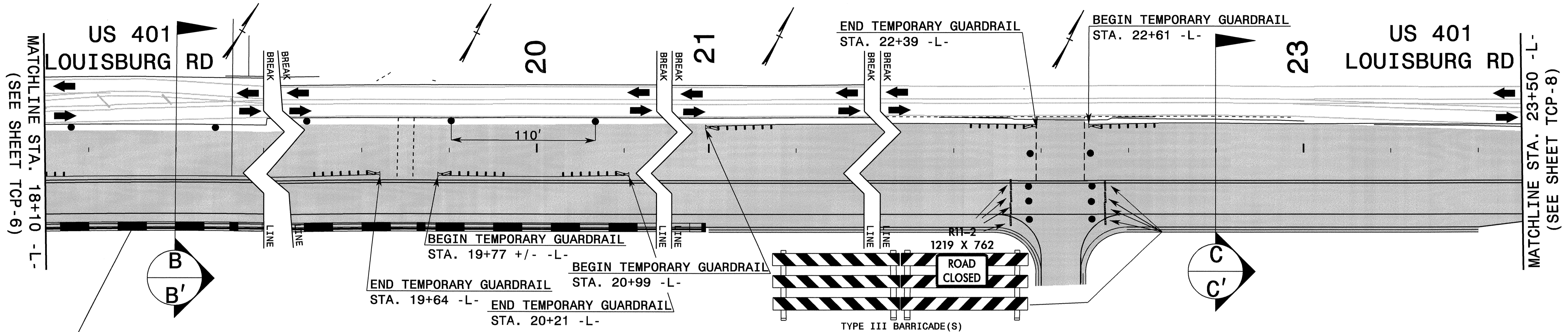
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 at: WZ12214138

APPROVED: <i>J.W. Woolard Jr.</i> DATE: 9/22/09		<b>PHASE I DETAIL</b>											
SEAL 	SCALE: NONE			 DIVISION OF HIGHWAYS MISSOURI DEPARTMENT OF TRANSPORTATION									
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DWG. BY: DAH	DESIGN BY: DAH	REVIEWED BY: JWW											

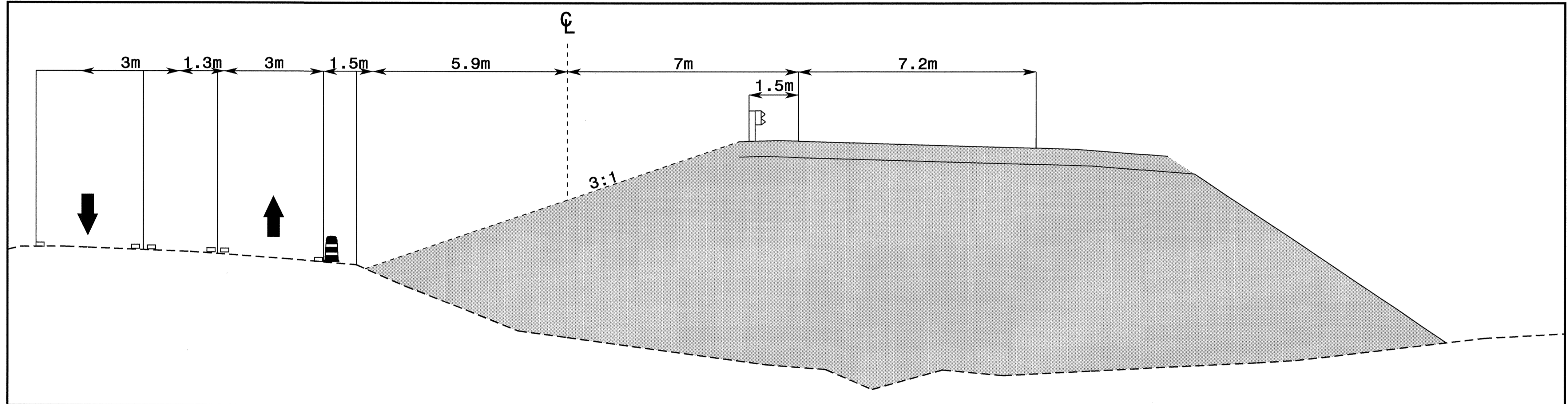




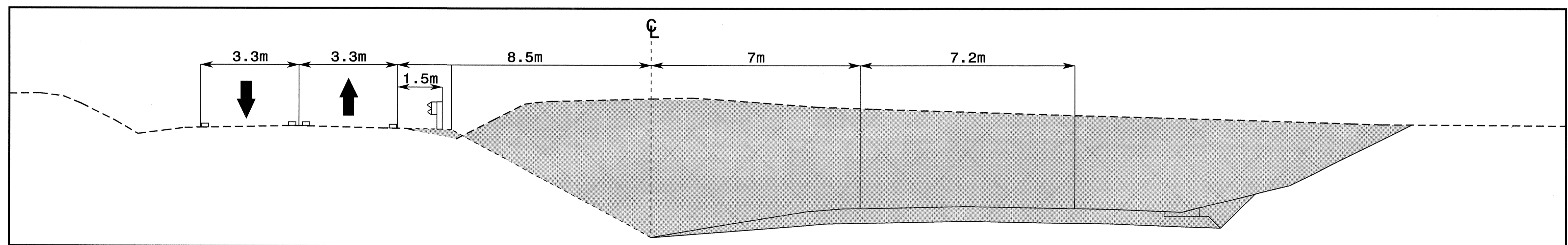
PROJ. REFERENCE NO.	SHEET NO.
R-2814A	TCP-7



NOISE WALL



CUT SECTION **B**  
STA. 18+40 -L- **B'**



CUT SECTION **C**  
STA. 22+20 -L- **C'**

02-SEP-2009 14:40 \\D:\V\Projects\10\NSP\01\TrafficControl\Top\Phase I\NR-2814A\_TC\_TCP\_PHL\_07.dgn chaves AT WZTC24738

APPROVED: *J.W. Woolard* DATE: 9/02/09

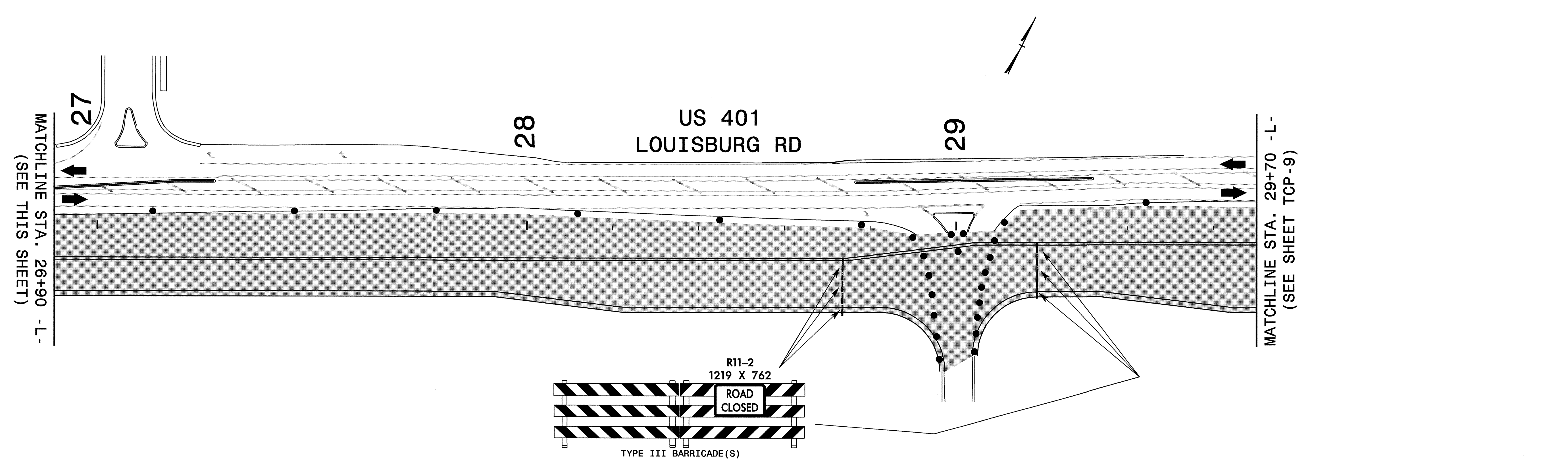
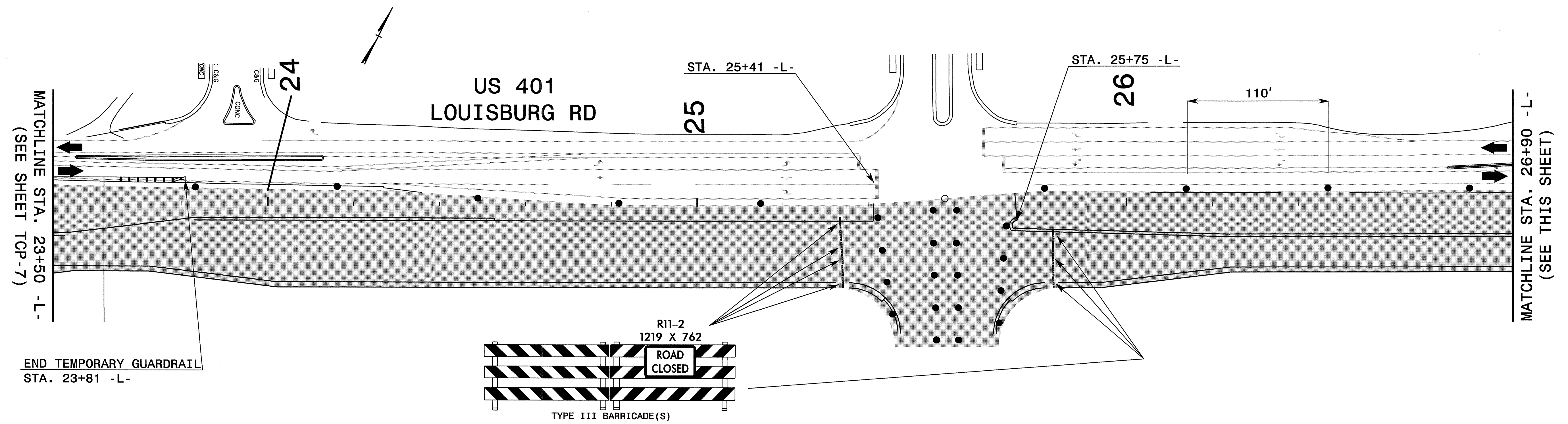
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<b>PHASE I DETAIL</b>	
SCALE: NONE	REVISIONS
DATE: 08/09	
DWG. BY: DAH	
DESIGN BY: DAH	
REVIEWED BY: JWW	





PROJ. REFERENCE NO.	SHEET NO.
R-2814A	TCP-8



02-SEP-2009 14:40  
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 anayas AT WZTC244738

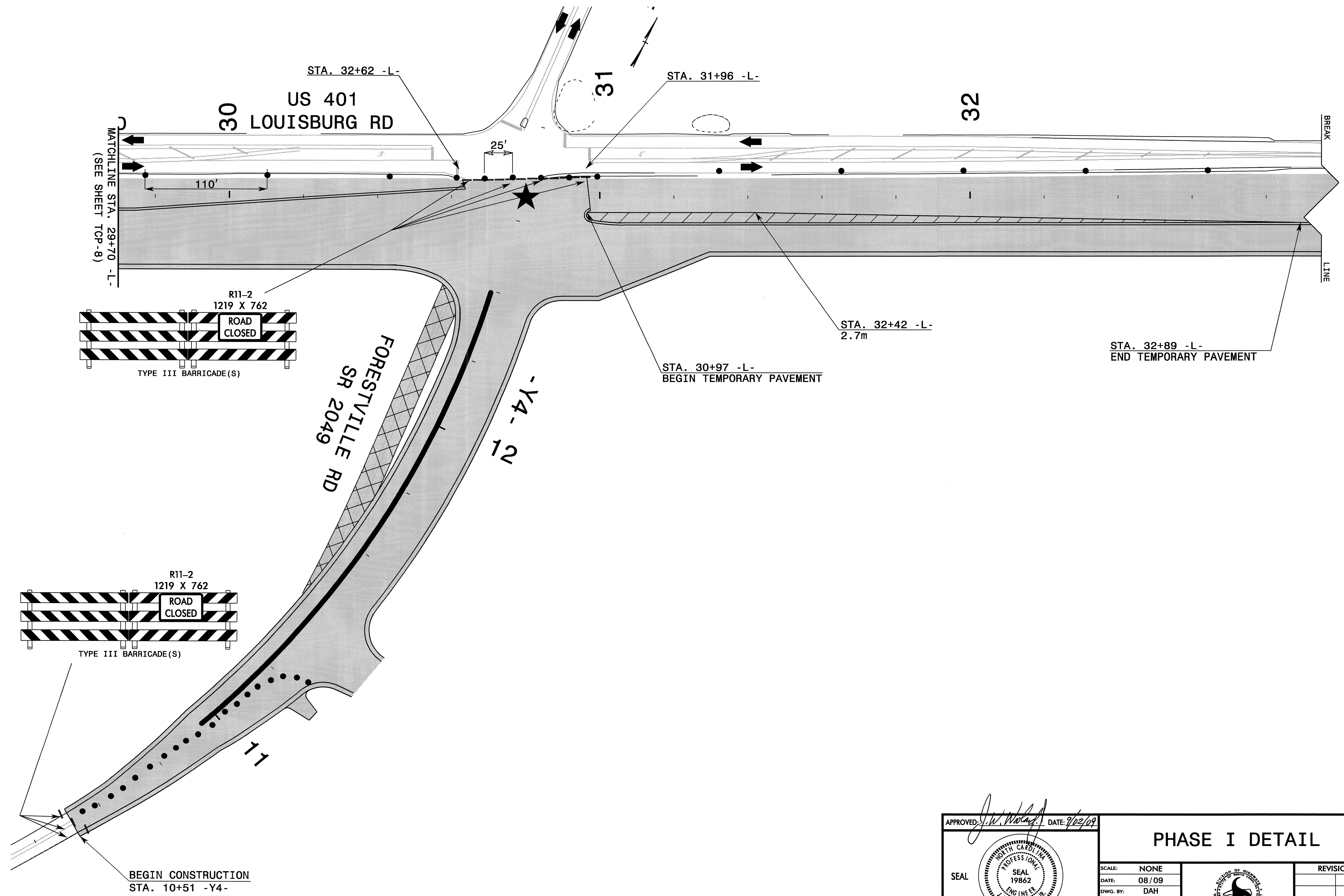
APPROVED: *J. W. Woolard Jr.* DATE: 9/02/09

SEAL

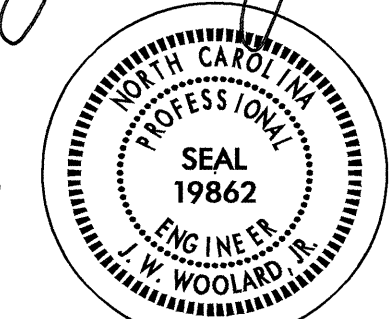

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PROJ. REFERENCE NO. R-2814A	SHEET NO. TCP-9
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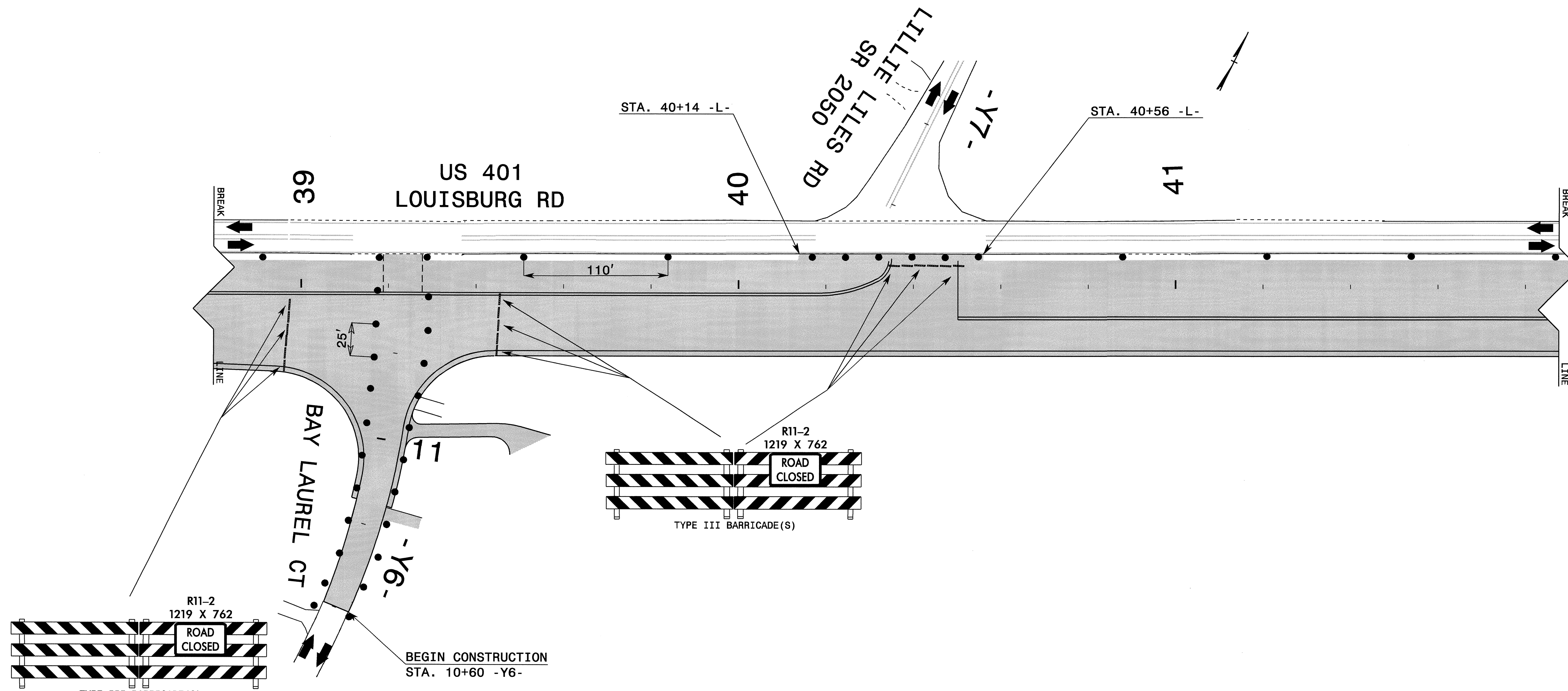


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 at 11/21/09 11:38

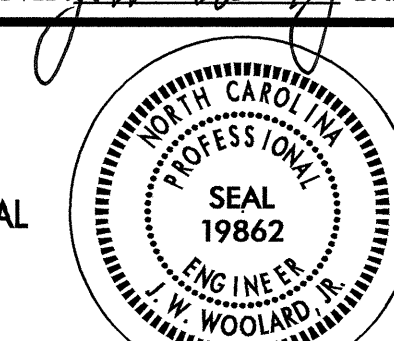

APPROVED: <i>J.W. Woolard</i> DATE: 8/2/09	<b>PHASE I DETAIL</b>	
		
SCALE: NONE		REVISIONS
DATE: 08/09		
DWG. BY: DAH		
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REVIEWED BY: JWW		CADD FILE



PROJ. REFERENCE NO.	SHEET NO.
R-2814A	TCP-10

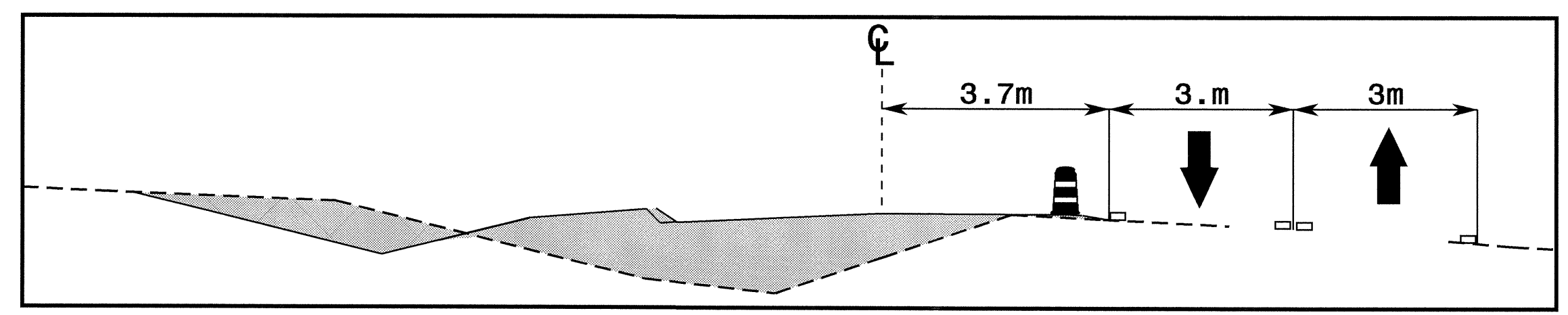
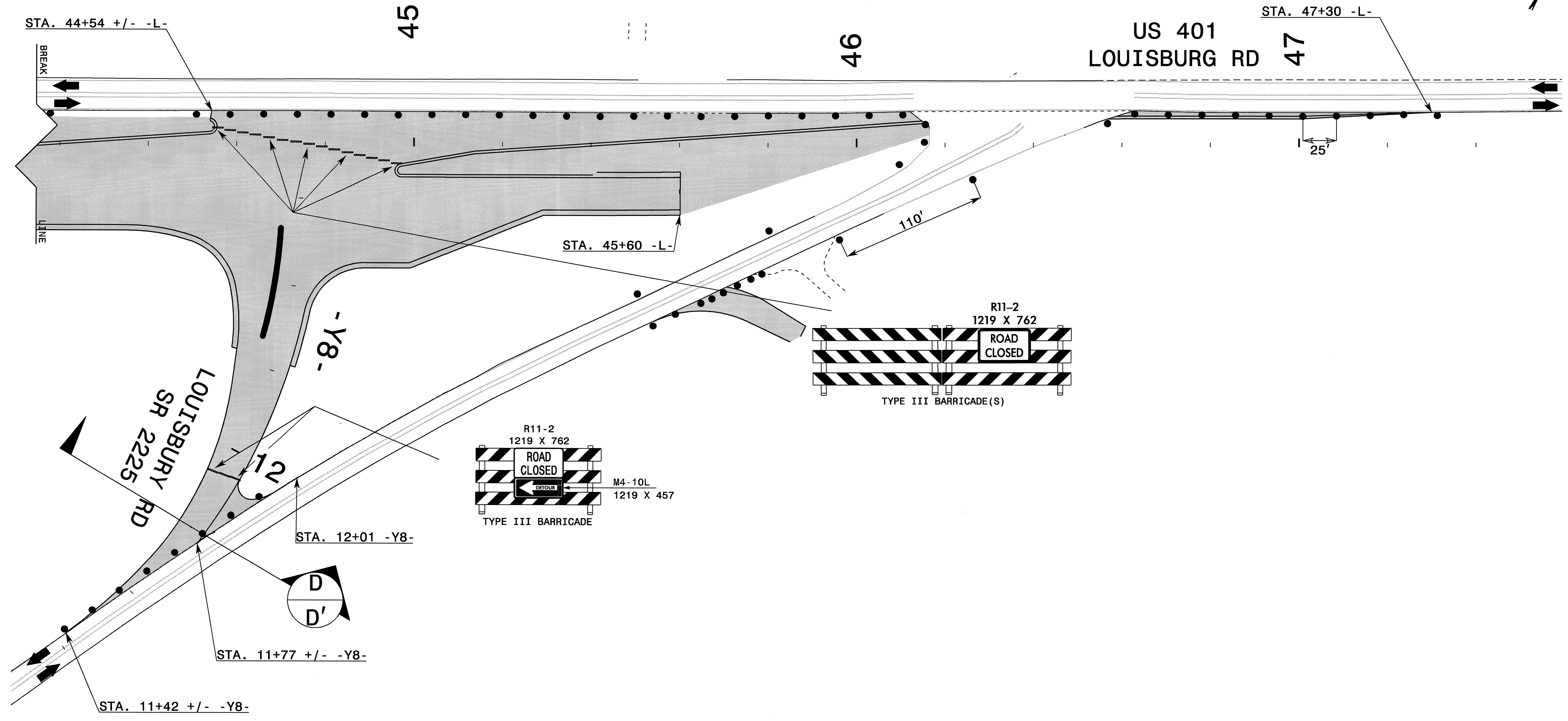


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 dhayes AT WZT244738

APPROVED: <i>J. W. Woolard Jr.</i> DATE: 9/02/09		<b>PHASE I DETAIL</b>				
SEAL 	SCALE: NONE					
	DATE: 08/09	REVISIONS				
	DWG. BY: DAH					
	DESIGN BY: DAH					
REVIEWED BY: JWW						



PROJ. REFERENCE NO. R-2814A	SHEET NO. TCP-11
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CUT SECTION D-D'  
STA. 11+80 -Y8-

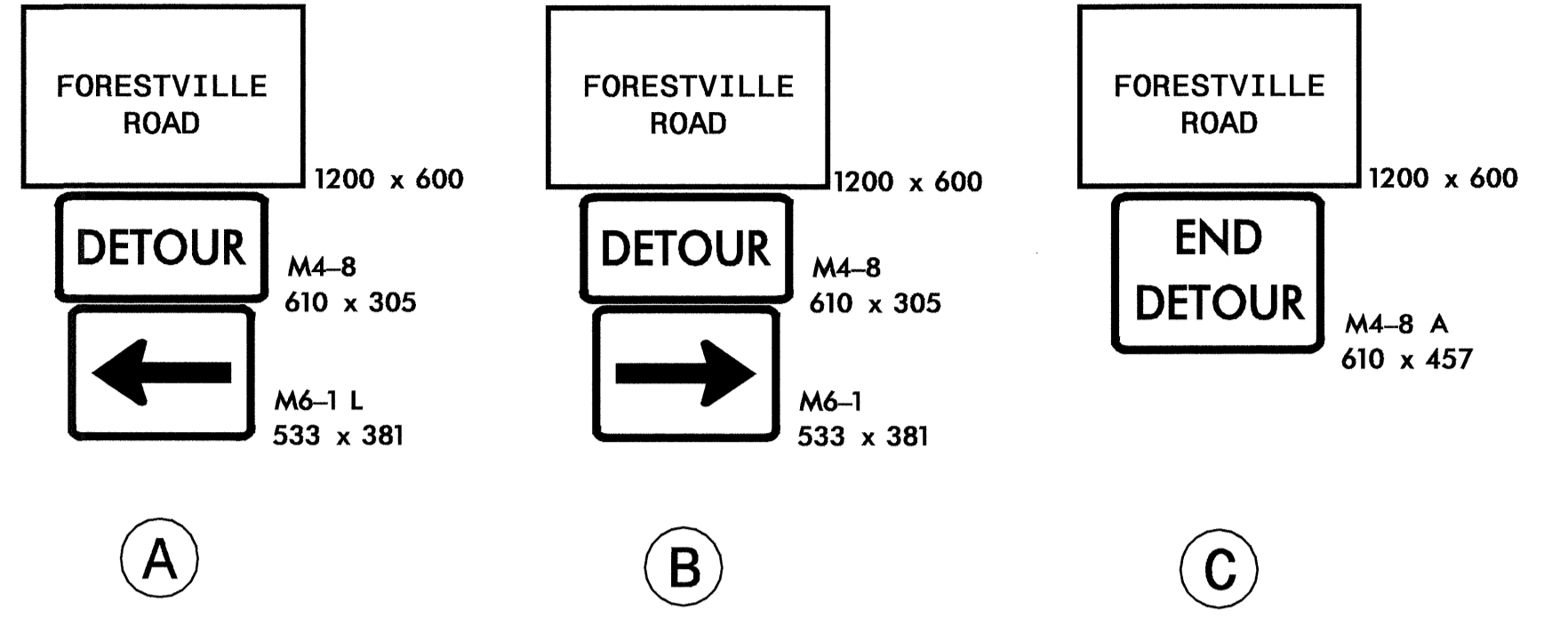
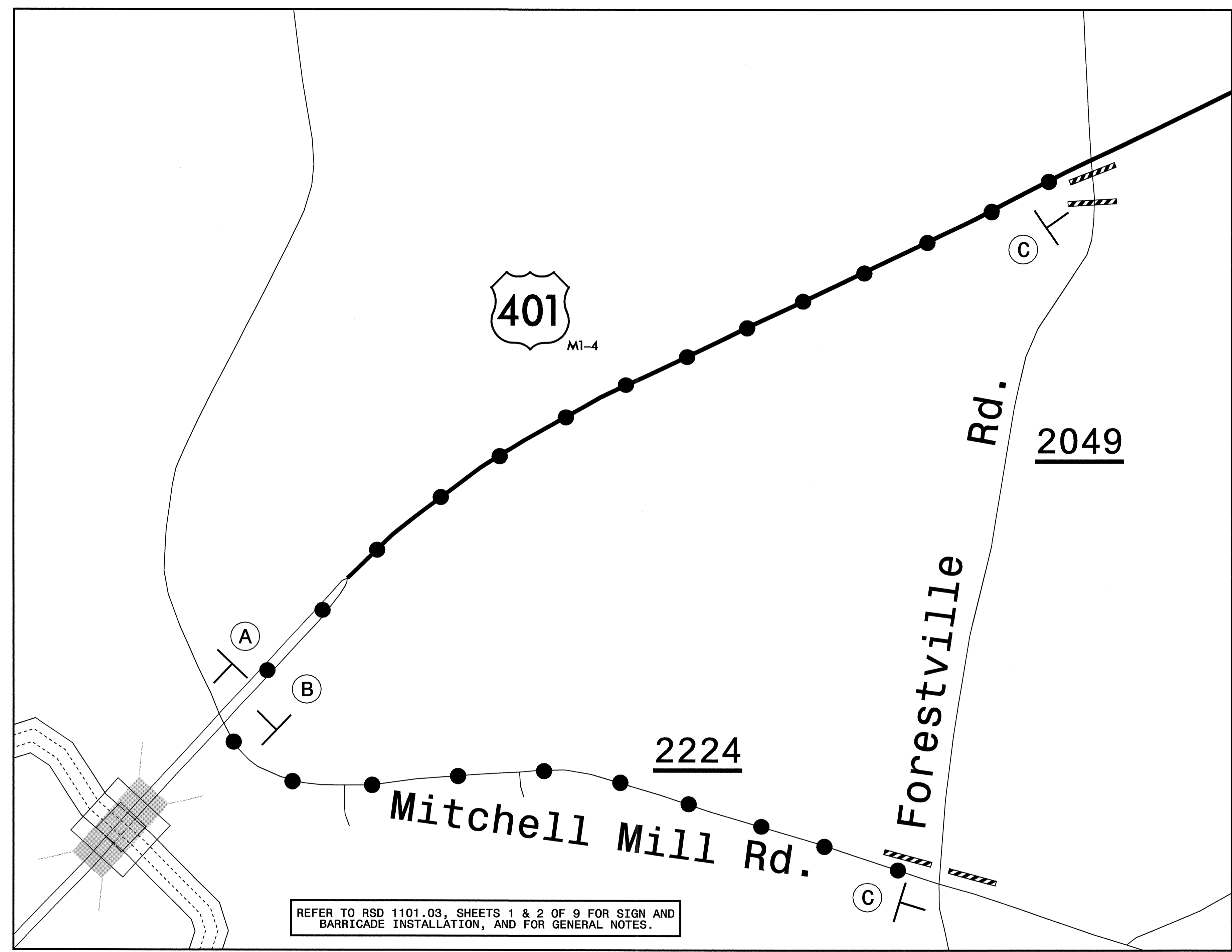
NOTE: ALL PAVEMENT MARKINGS SHOWN ON THIS SHEET ARE EXISTING.

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02-SEP-2009 14:39

APPROVED: <i>J. Woolard</i> DATE: 9/2/09	<b>PHASE I DETAIL CUT SECTION D-D'</b>	
SCALE: NONE		REVISIONS
DATE: 08/09		
DESIGN BY: DAH		
REVIEWED BY: JWW		



PROJ. REFERENCE NO.	SHEET NO.
R-2814A	TCP-12



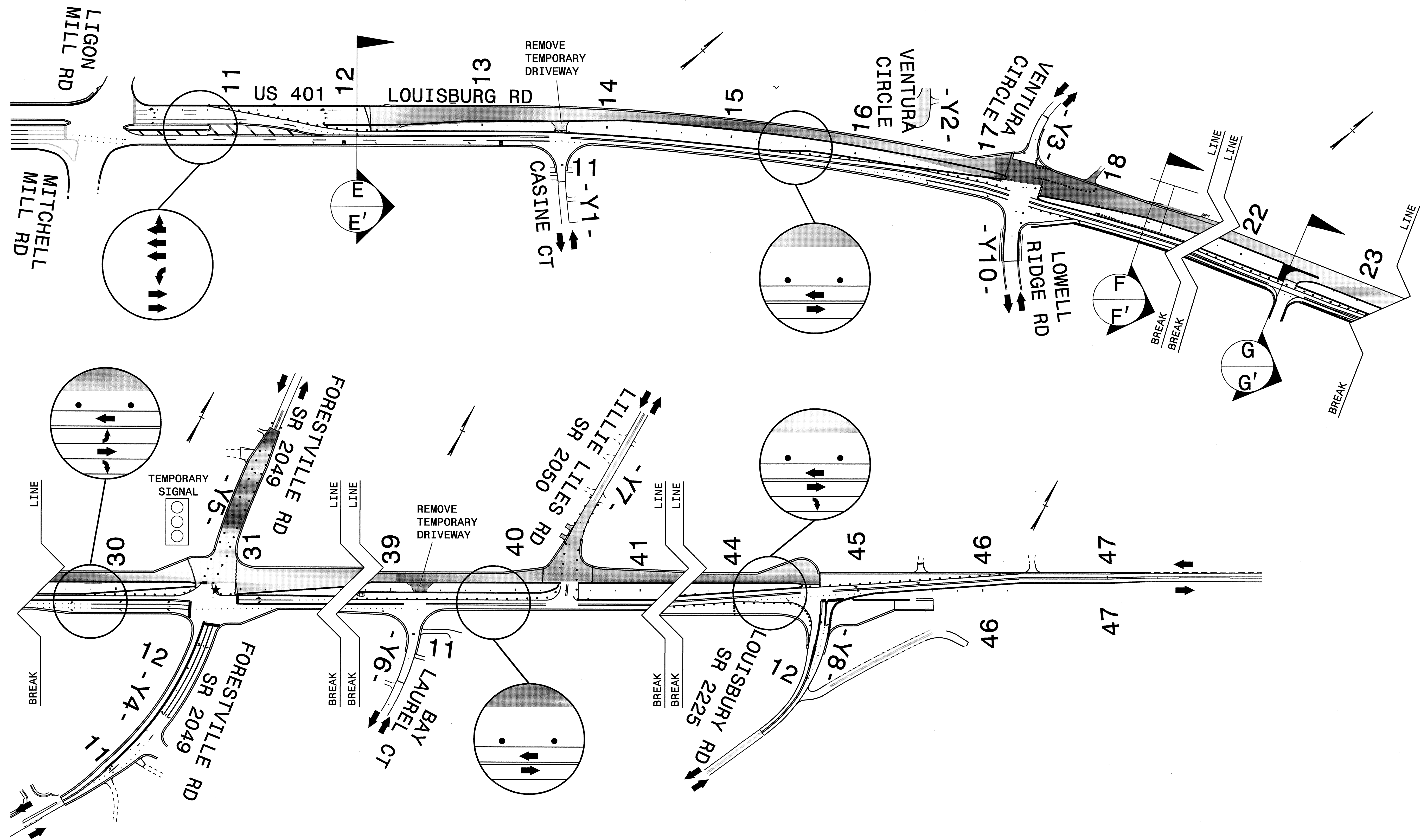
SEE SHEET TCP-2A FOR SIGN DESIGN

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APPROVED: <i>J.W. Woolard Jr.</i> DATE: 9/02/09	<b>OFFSITE DETOUR</b>										
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DESIGN BY: DAH											
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PROJ. REFERENCE NO.	SHEET NO.
R-2814A	TCP-13



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 ahayes AT WZTC24738

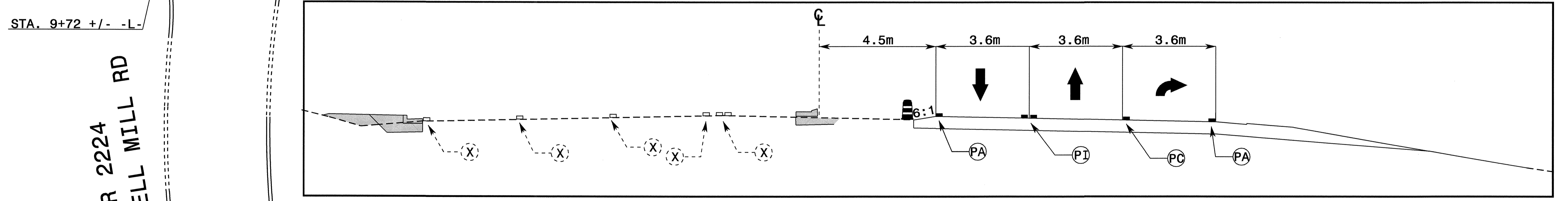
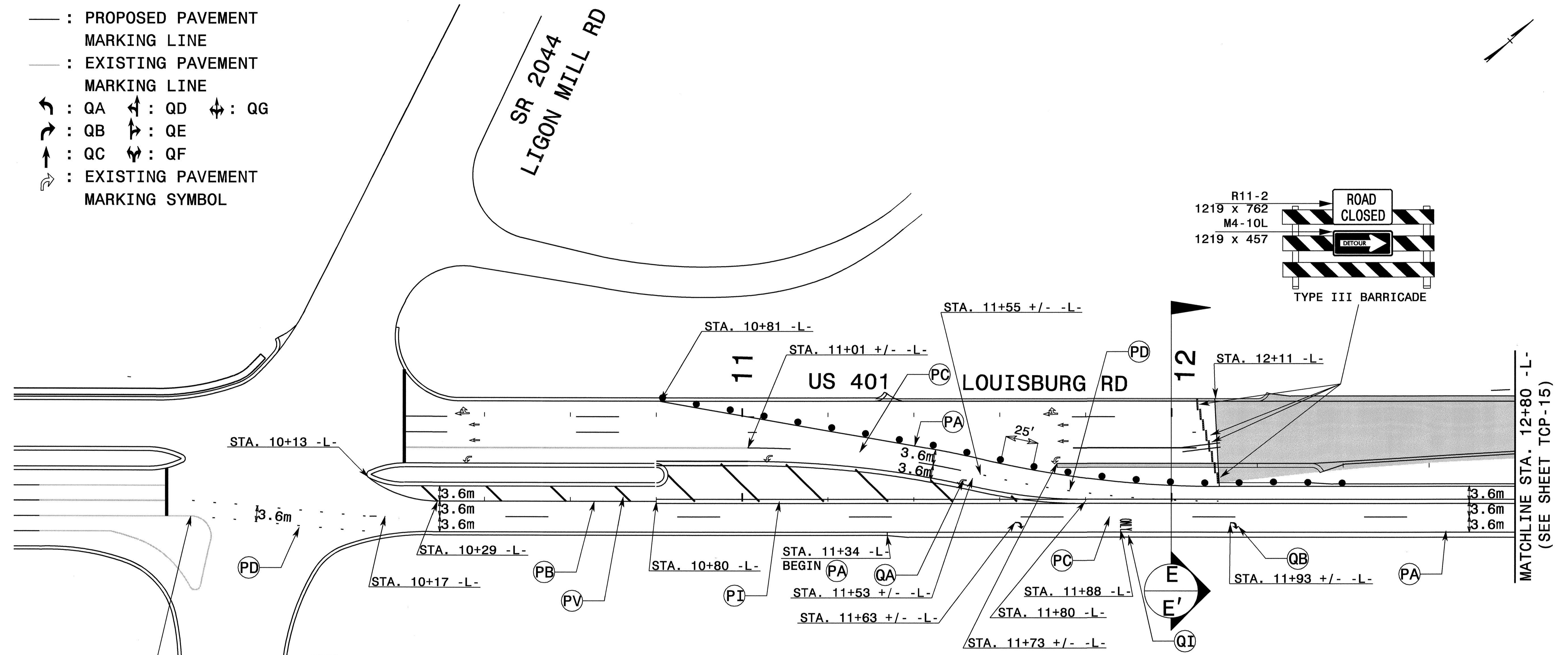
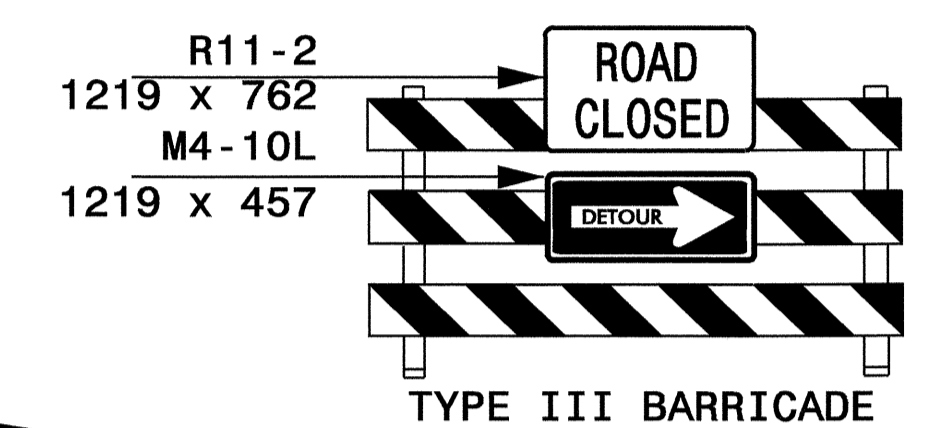
APPROVED: *J.W. Woolard* DATE: 9/02/09

SEAL

<b>PHASE II OVERVIEW</b>									
SCALE: NONE									
DATE: 08/09									
DWG. BY: DAH									
DESIGN BY: DAH									
REVIEWED BY: JWW	<table border="1"> <tr> <th colspan="2">REVISIONS</th> </tr> <tr> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> </tr> </table>	REVISIONS							
REVISIONS									



- : PROPOSED PAVEMENT MARKING LINE
- : EXISTING PAVEMENT MARKING LINE
- ↪ : QA    ↪ : QD    ↪ : QG
- ↪ : QB    ↪ : QE
- ↪ : QC    ↪ : QF
- ↪ : EXISTING PAVEMENT MARKING SYMBOL



CUT SECTION E-E'  
STA. 12+00 -L-

- FOR PAVEMENT MARKING SCHEDULE SEE SHEET TCP-1A
- TEMPORARY RAISED PAVEMENT MARKERS SHALL BE PLACED IN ACCORDANCE WITH RSD 1250.05 AND 1251.01

APPROVED: *J.W. Woolard Jr.* DATE: 7/22/09

SEAL

**PHASE II DETAIL**

SCALE: NONE  
DATE: 08/09  
DWG. BY: DAH  
DESIGN BY: DAH  
REVIEWED BY: JWW

REVISIONS	

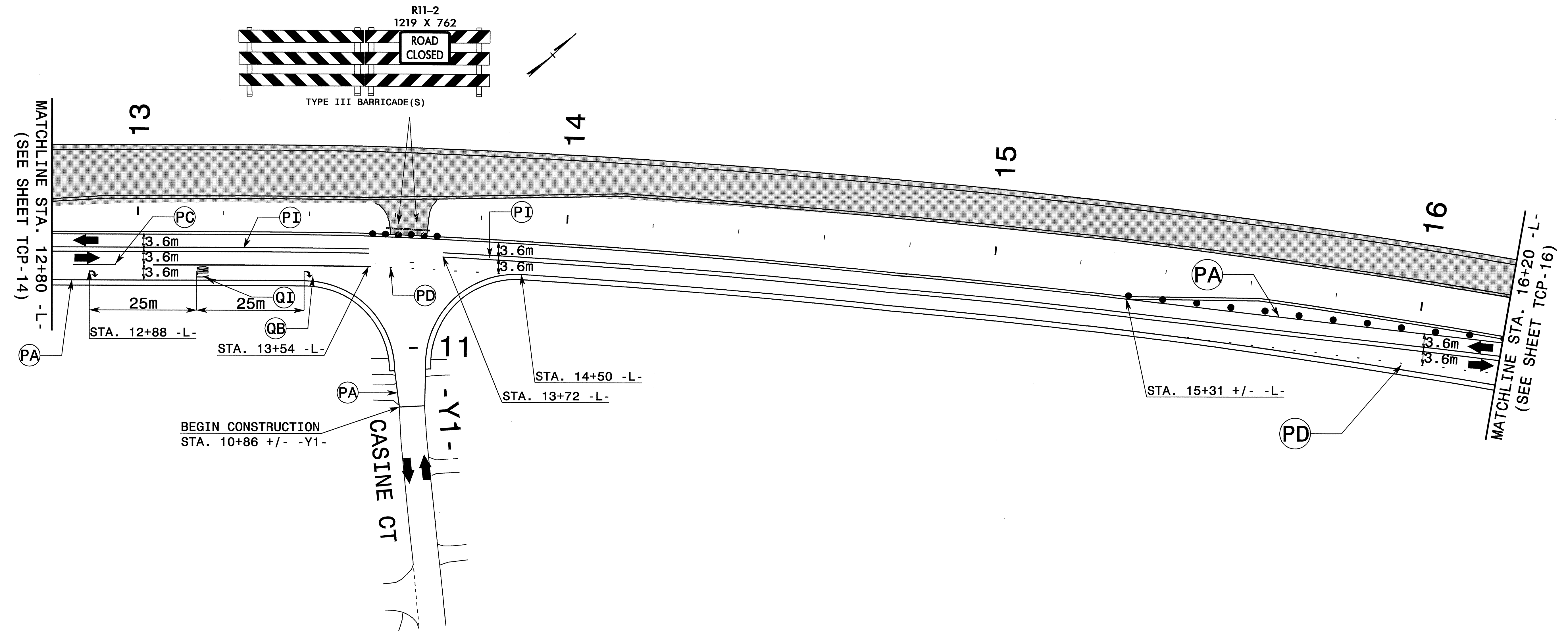
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 dnvas AT WZ TC244738





PROJ. REFERENCE NO.	SHEET NO.
R-2814A	TCP-15



BEGIN CONSTRUCTION  
STA. 10+86 +/- -Y1-

- : PROPOSED PAVEMENT MARKING LINE
- - - : EXISTING PAVEMENT MARKING LINE
- ↪ : QA    ↪ : QD    ↪ : QG
- ↪ : QB    ↪ : QE
- ↪ : QC    ↪ : QF
- ↪ : EXISTING PAVEMENT MARKING SYMBOL

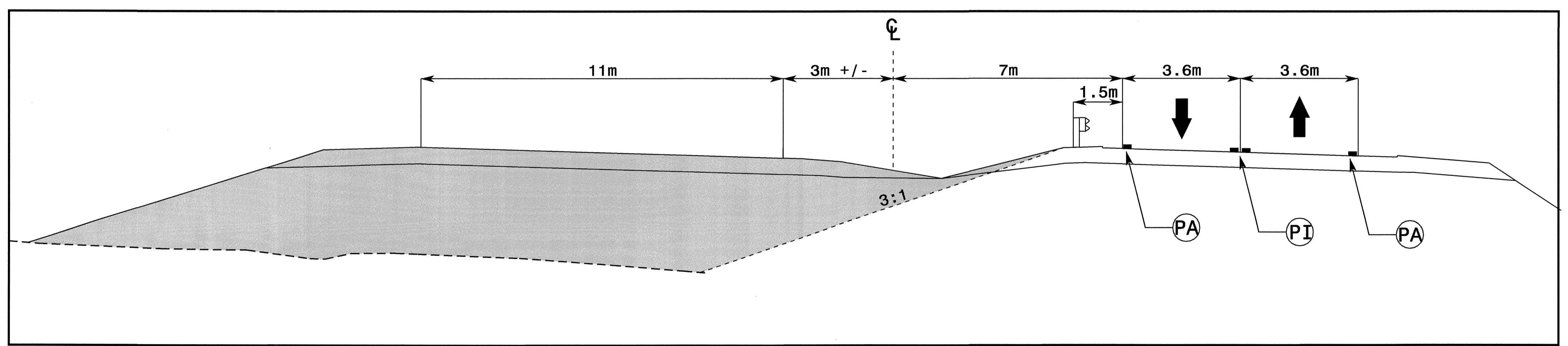
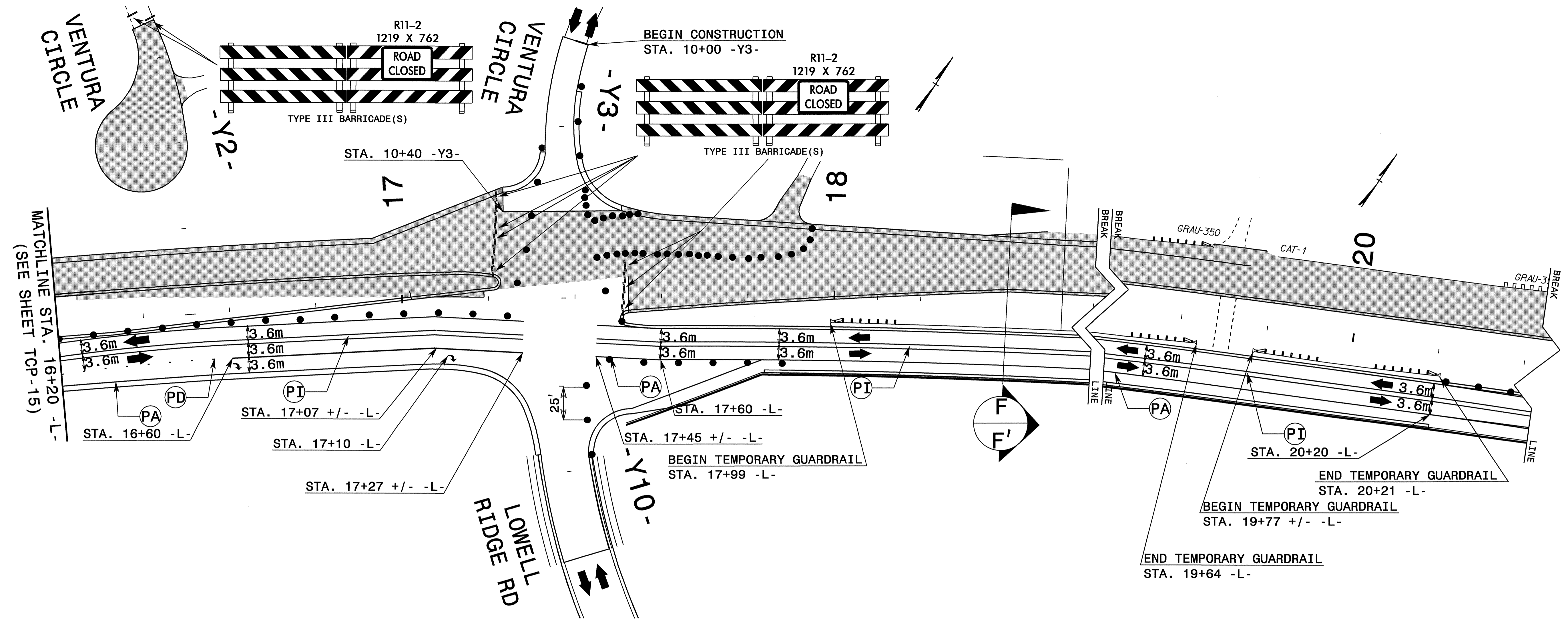
- FOR PAVEMENT MARKING SCHEDULE SEE SHEET TCP-1A
- TEMPORARY RAISED PAVEMENT MARKERS SHALL BE PLACED IN ACCORDANCE WITH RSD 1250.05 AND 1251.01

APPROVED: <i>J. W. Woolard</i> DATE: 9/02/09	<b>PHASE II DETAIL</b>	
	SCALE: NONE	
	DATE: 08/09	
	DWG. BY: DAH	
	DESIGN BY: DAH	
REVIEWED BY: JWW	REVISIONS	

02-SEP-2009 14:52  
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 at\12244138  
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PROJ. REFERENCE NO.	SHEET NO.
R-2814A	TCP-16



- : PROPOSED PAVEMENT MARKING LINE
- - - : EXISTING PAVEMENT MARKING LINE
- ↪ : QA    ↩ : QD    ↔ : QG
- ↪ : QB    ↩ : QE
- ↪ : QC    ↩ : QF
- ↪ : EXISTING PAVEMENT MARKING SYMBOL

- FOR PAVEMENT MARKING SCHEDULE SEE SHEET TCP-1A
- TEMPORARY RAISED PAVEMENT MARKERS SHALL BE PLACED IN ACCORDANCE WITH RSD 1250.05 AND 1251.01

APPROVED: *[Signature]* DATE: 9/22/09

SEAL: *[Professional Engineer Seal]*

**PHASE II DETAIL**

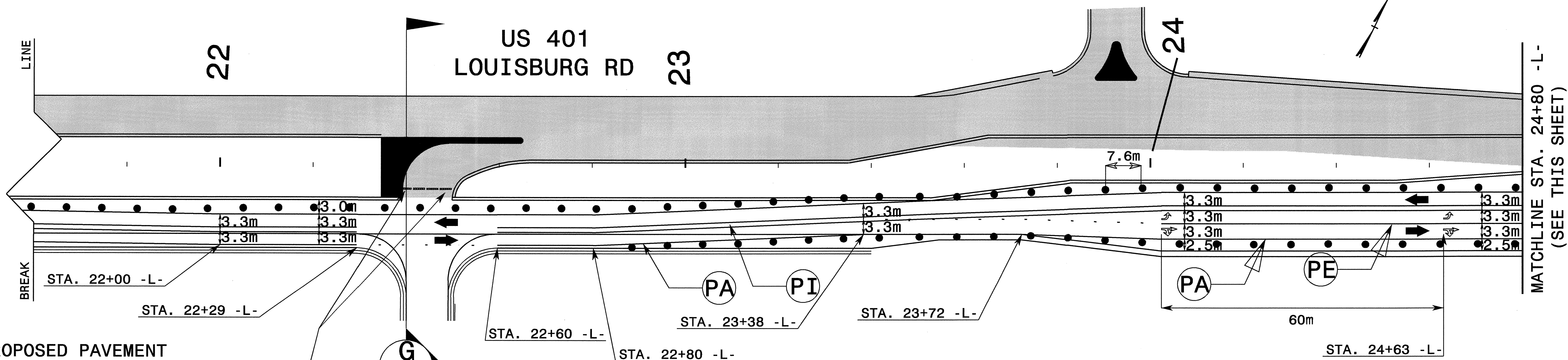
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REVIEWED BY: JWW

REVISIONS

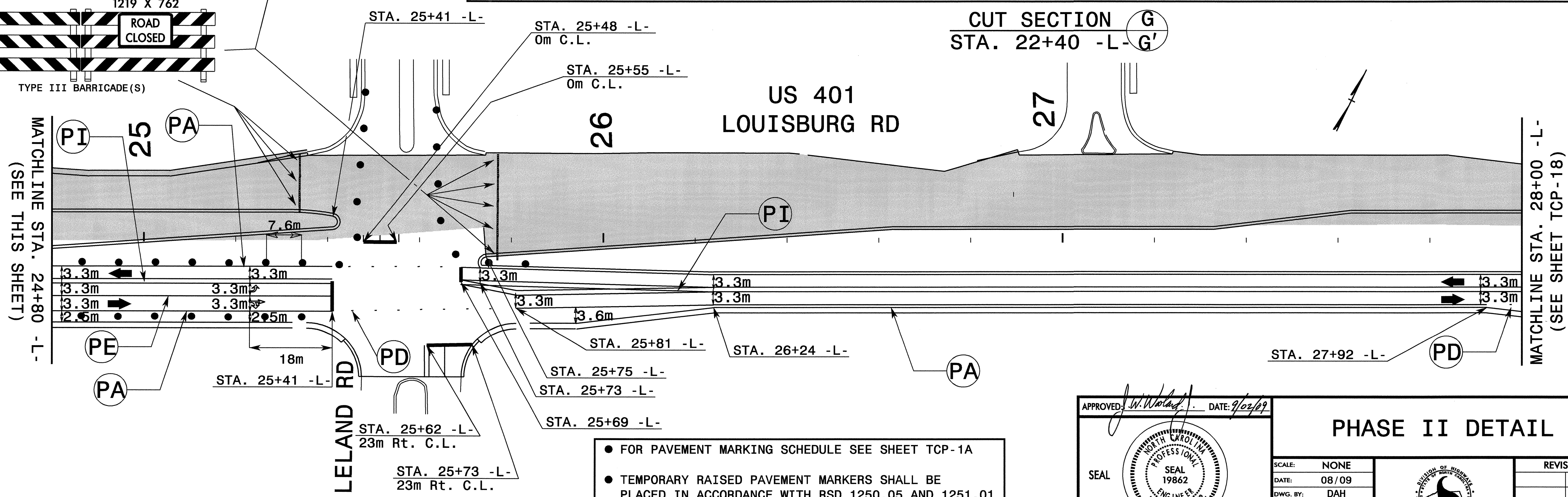
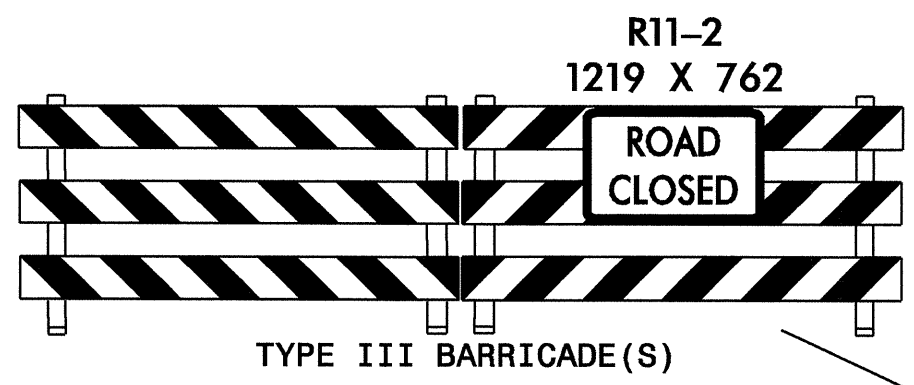
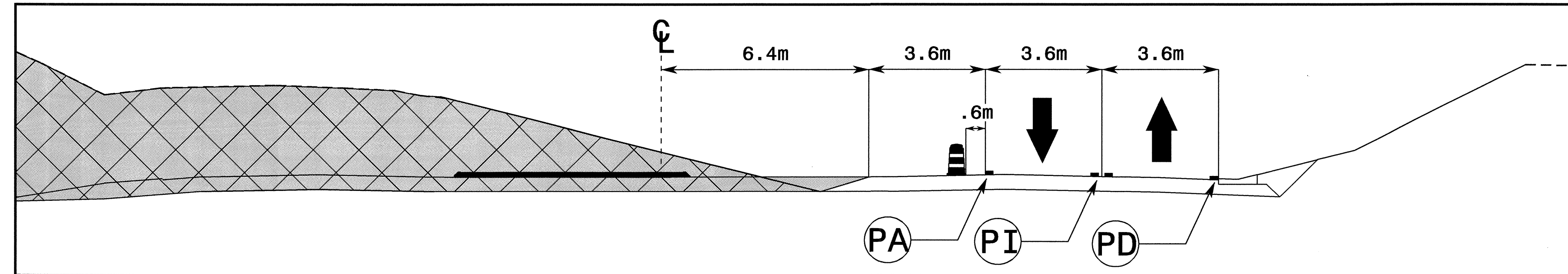
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PROJ. REFERENCE NO.	SHEET NO.
R-2814A	TCP-17



- : PROPOSED PAVEMENT MARKING LINE
- : EXISTING PAVEMENT MARKING LINE
- ↔ : QA ↔ : QD ↔ : QG
- ↔ : QB ↔ : QE
- ↔ : QC ↔ : QF
- ↔ : EXISTING PAVEMENT MARKING SYMBOL



MATCHLINE STA. 24+80 -L- (SEE THIS SHEET)

MATCHLINE STA. 28+00 -L- (SEE SHEET TCP-18)

- FOR PAVEMENT MARKING SCHEDULE SEE SHEET TCP-1A
- TEMPORARY RAISED PAVEMENT MARKERS SHALL BE PLACED IN ACCORDANCE WITH RSD 1250.05 AND 1251.01

APPROVED: *[Signature]* DATE: 9/23/99

SEAL

**PHASE II DETAIL**

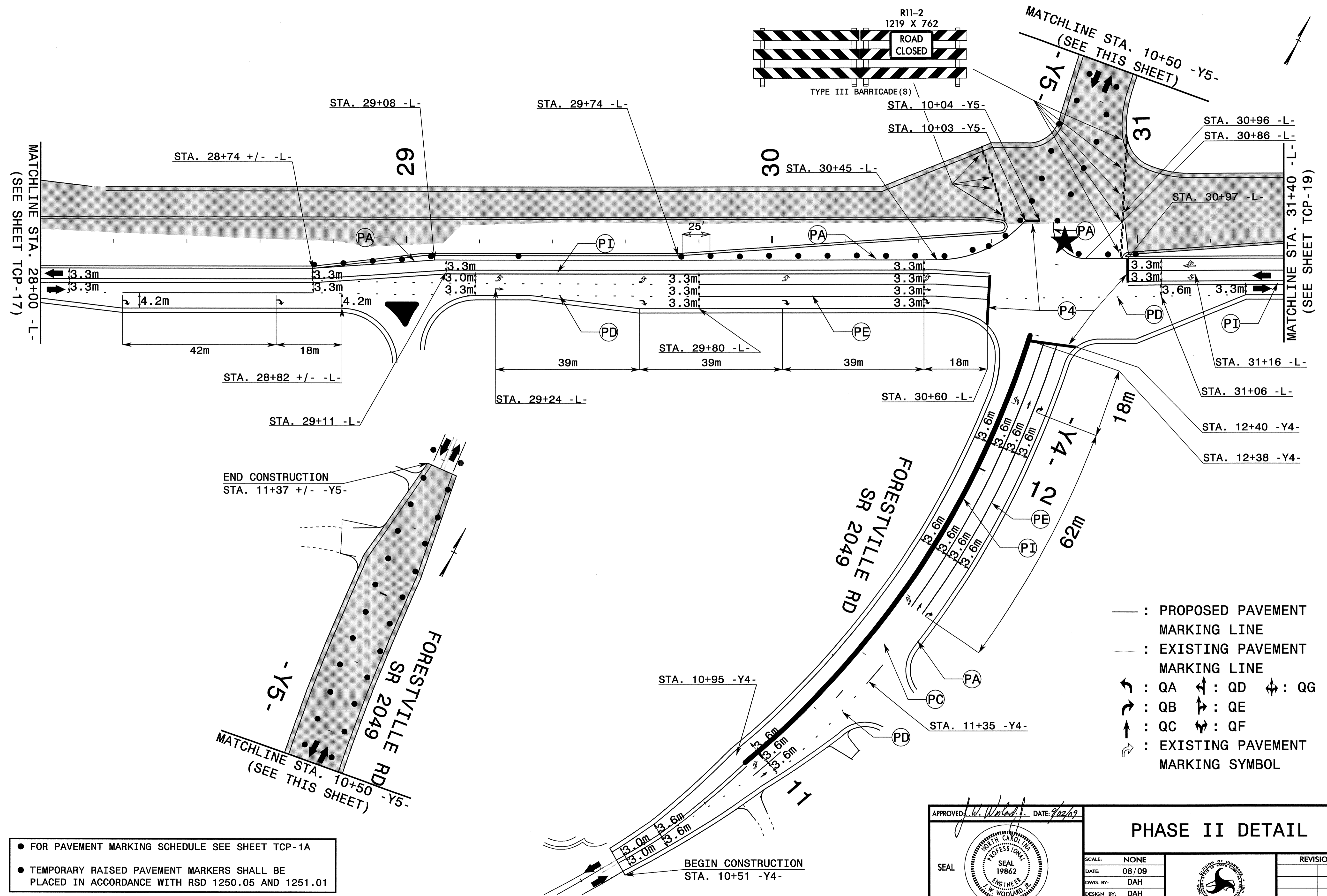
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DESIGN BY:	DAH
REVIEWED BY:	JWW

REVISIONS

02-SEP-2009 14:51  
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 chaves AT WZTC24738



PROJ. REFERENCE NO.	SHEET NO.
R-2814A	TCP-18



- FOR PAVEMENT MARKING SCHEDULE SEE SHEET TCP-1A
- TEMPORARY RAISED PAVEMENT MARKERS SHALL BE PLACED IN ACCORDANCE WITH RSD 1250.05 AND 1251.01

- : PROPOSED PAVEMENT MARKING LINE
- - - : EXISTING PAVEMENT MARKING LINE
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- ↗ : QB    ↗ : QE
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- ↙ : EXISTING PAVEMENT MARKING SYMBOL

APPROVED: *J. W. Woolard* DATE: 9/22/09

SEAL

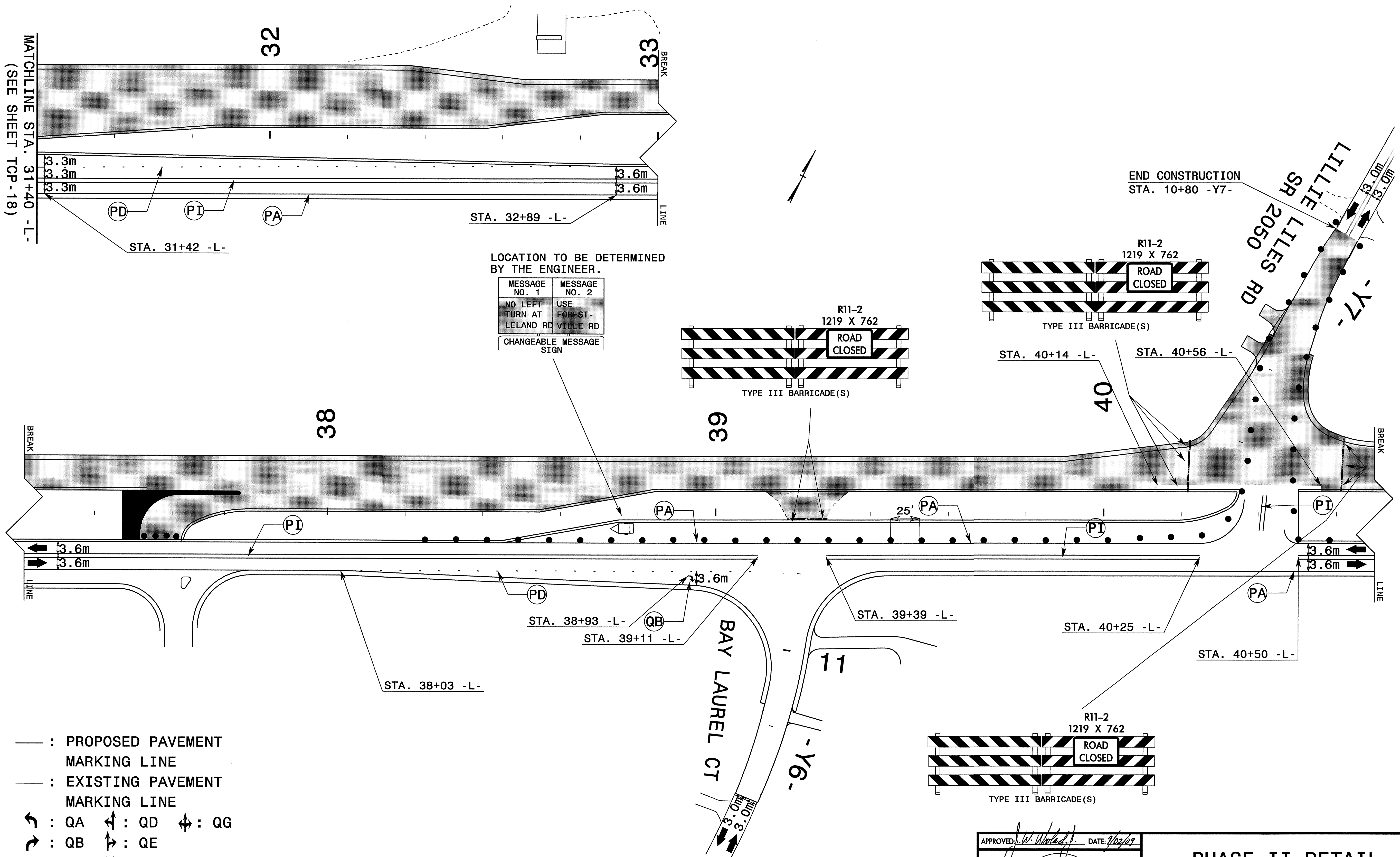
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DESIGN BY: DAH		
REVIEWED BY: JWJ		

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 AT WZTC244738



PROJ. REFERENCE NO.	SHEET NO.
R-2814A	TCP-19



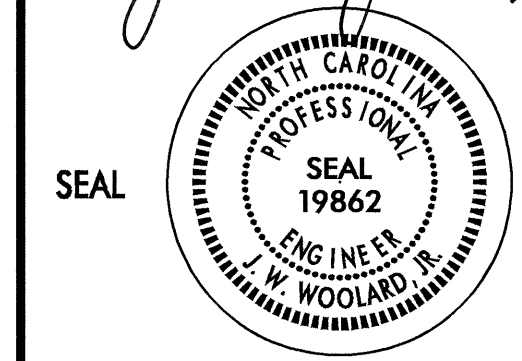
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MESSAGE NO. 1	MESSAGE NO. 2
NO LEFT TURN AT LELAND RD	USE FOREST-VILLE RD
CHANGEABLE MESSAGE SIGN	

- : PROPOSED PAVEMENT MARKING LINE
- - - : EXISTING PAVEMENT MARKING LINE
- ↖ : QA    ↗ : QD    ↕ : QG
- ↘ : QB    ↙ : QE
- : QC    ↔ : QF
- ↪ : EXISTING PAVEMENT MARKING SYMBOL

- FOR PAVEMENT MARKING SCHEDULE SEE SHEET TCP-1A
- TEMPORARY RAISED PAVEMENT MARKERS SHALL BE PLACED IN ACCORDANCE WITH RSD 1250.05 AND 1251.01

APPROVED: *[Signature]* DATE: 9/02/09



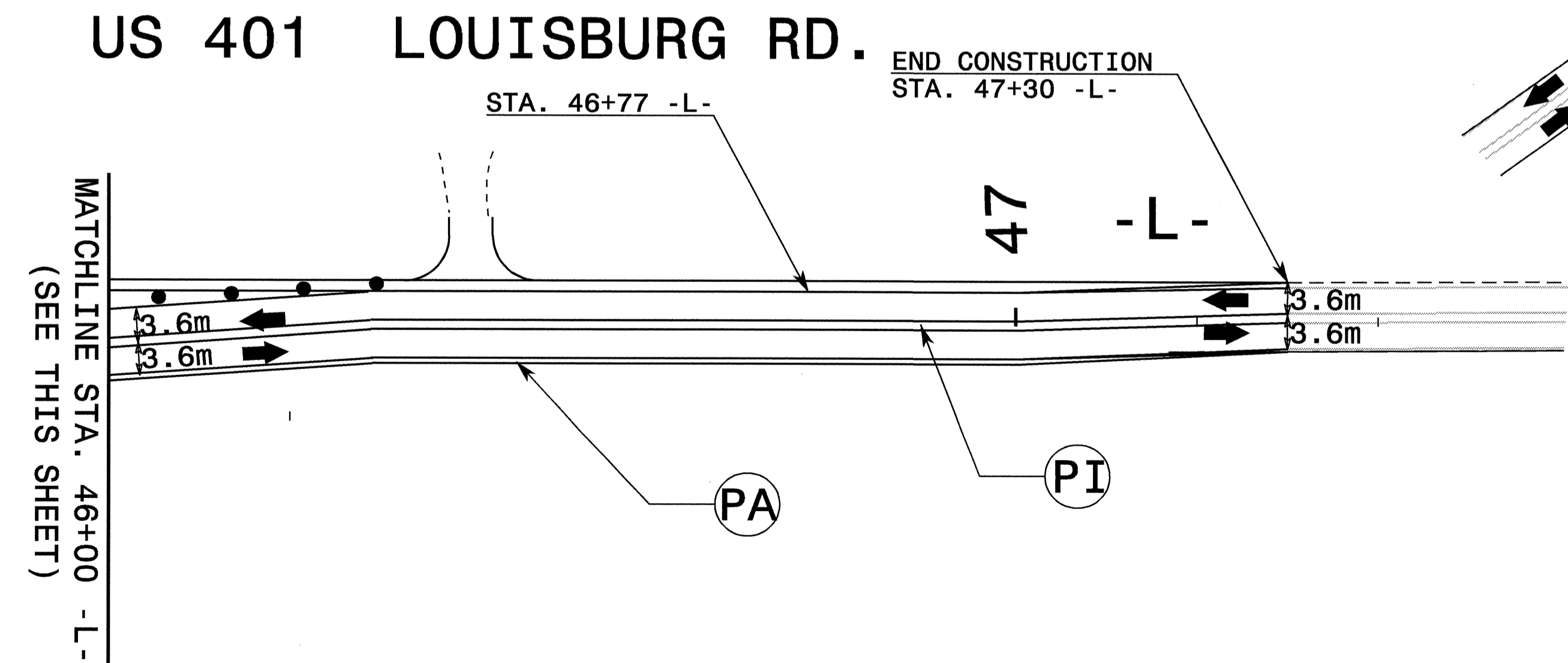
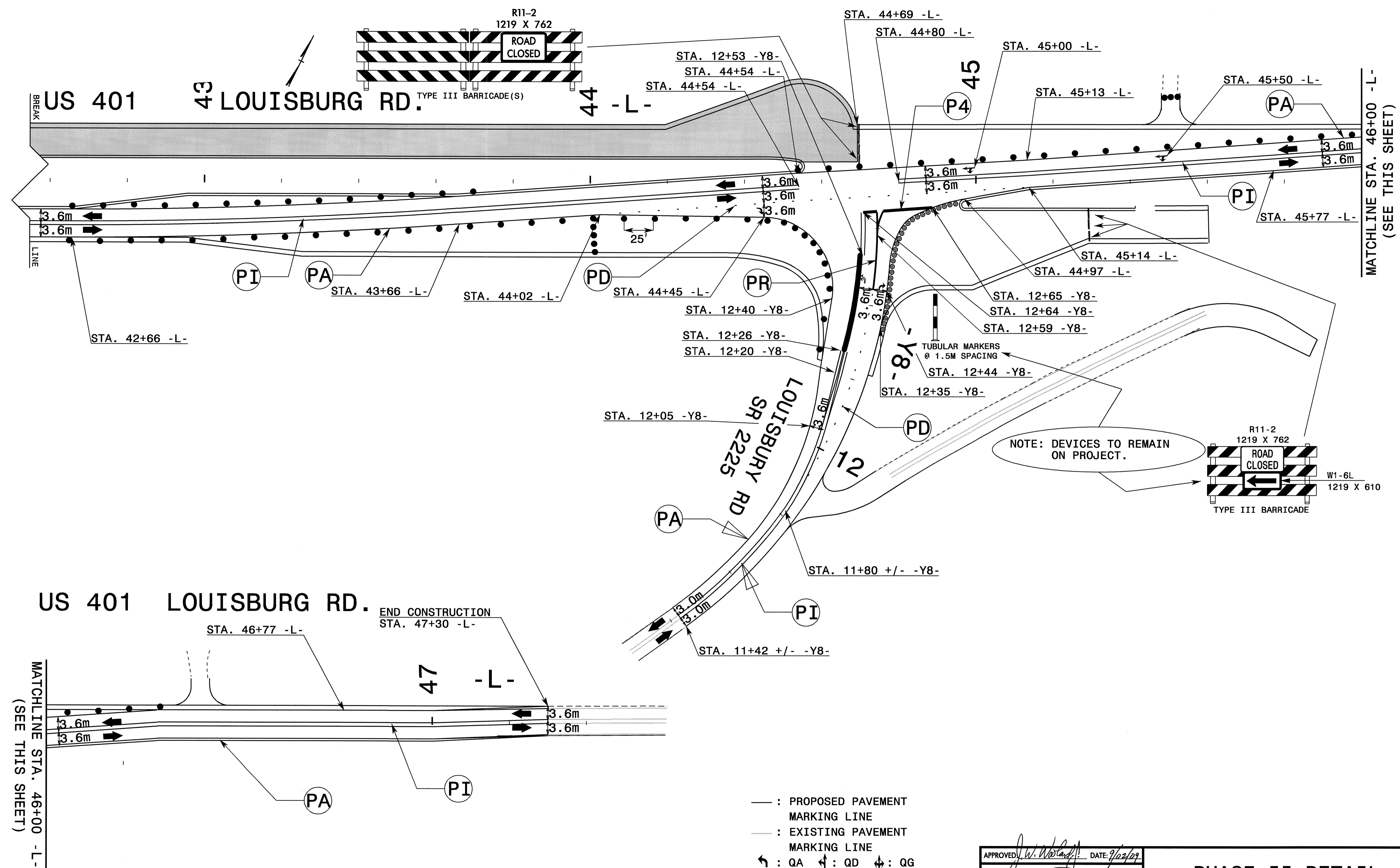
PHASE II DETAIL

SCALE:	NONE		REVISIONS
DATE:	08/09		
DWG. BY:	DAH		
DESIGN BY:	DAH		
REVIEWED BY:	JWW		

02-SEP-2009 14:49  
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 ahayes AT WZTC24738



PROJ. REFERENCE NO.	SHEET NO.
R-2814A	TCP-20



- FOR PAVEMENT MARKING SCHEDULE SEE SHEET TCP-1A
- TEMPORARY RAISED PAVEMENT MARKERS SHALL BE PLACED IN ACCORDANCE WITH RSD 1250.05 AND 1251.01

- : PROPOSED PAVEMENT MARKING LINE
- - - : EXISTING PAVEMENT MARKING LINE
- ↖ : QA    ↗ : QD    ↕ : QG
- ↘ : QB    ↖ : QE
- ↙ : QC    ↗ : QF
- ↔ : EXISTING PAVEMENT MARKING SYMBOL

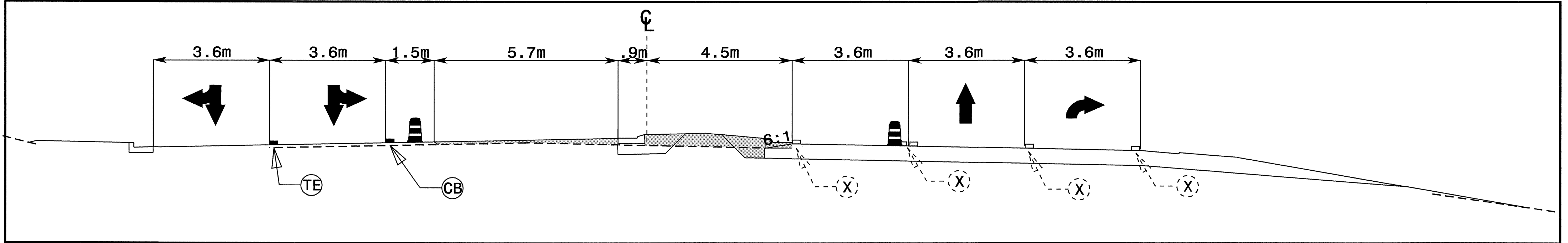
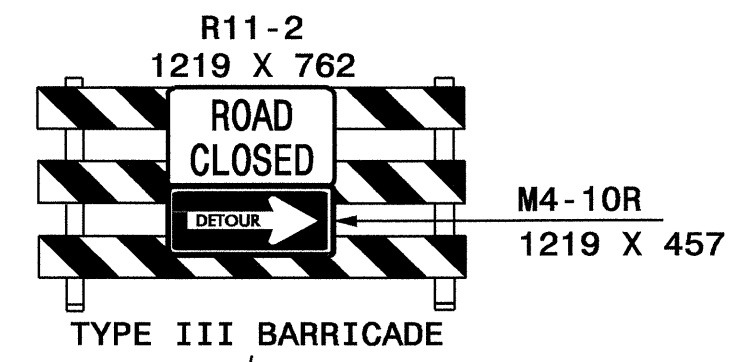
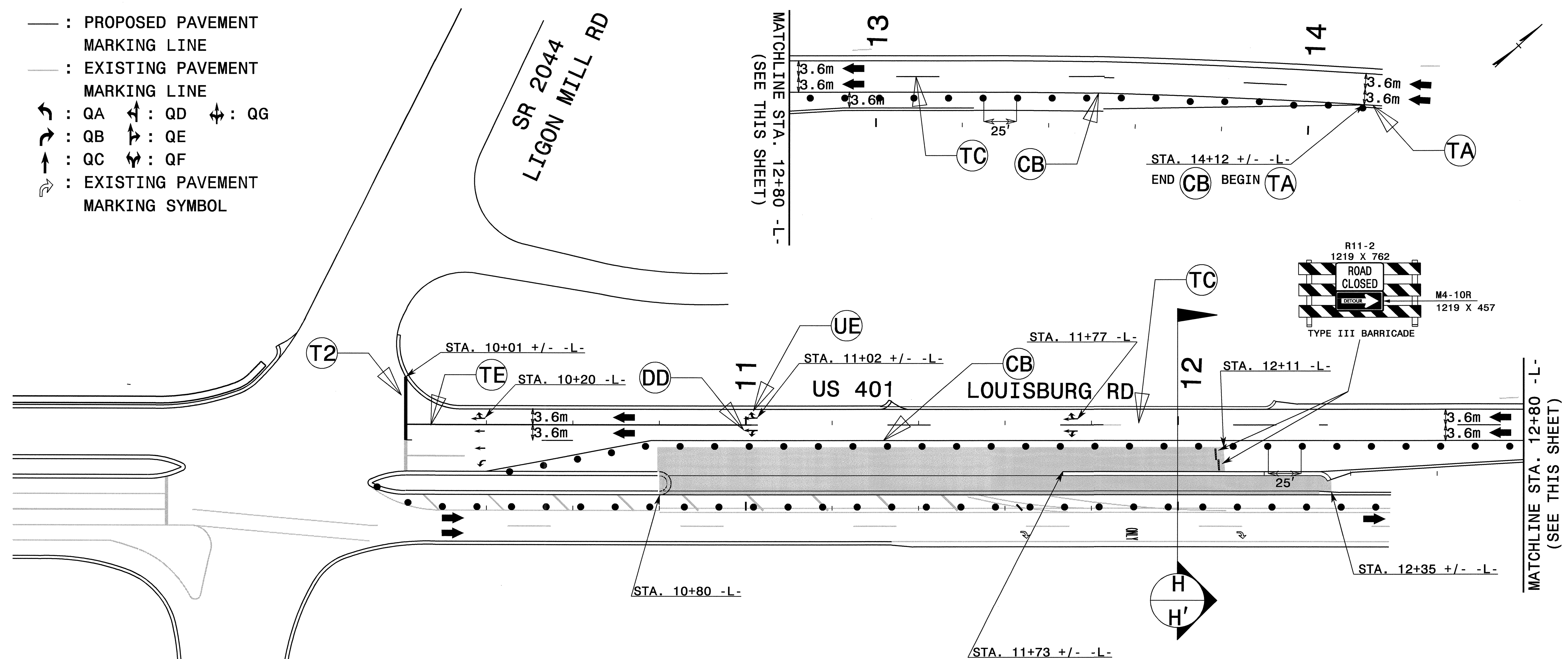
NOTE: DEVICES TO REMAIN ON PROJECT.

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APPROVED: <i>J.W. Woolard</i> DATE: 9/22/09	<b>PHASE II DETAIL</b>							
SEAL:								
SCALE: NONE	DATE: 08/09	<table border="1"> <tr> <th colspan="2">REVISIONS</th> </tr> <tr> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> </tr> </table>	REVISIONS					
REVISIONS								
DWG. BY: DAH	DESIGN BY: DAH	REVIEWED BY: JWW						



- : PROPOSED PAVEMENT MARKING LINE
- - - : EXISTING PAVEMENT MARKING LINE
- ↩ : QA    ↩ : QD    ↩ : QG
- ↪ : QB    ↪ : QE
- ↩↪ : QC    ↩↪ : QF
- ↪ : EXISTING PAVEMENT MARKING SYMBOL



CUT SECTION H  
STA. 12+00 -L- H'

- FOR PAVEMENT MARKING SCHEDULE SEE SHEET TCP-1A
- TEMPORARY RAISED PAVEMENT MARKERS SHALL BE PLACED IN ACCORDANCE WITH RSD 1250.05 AND 1251.01

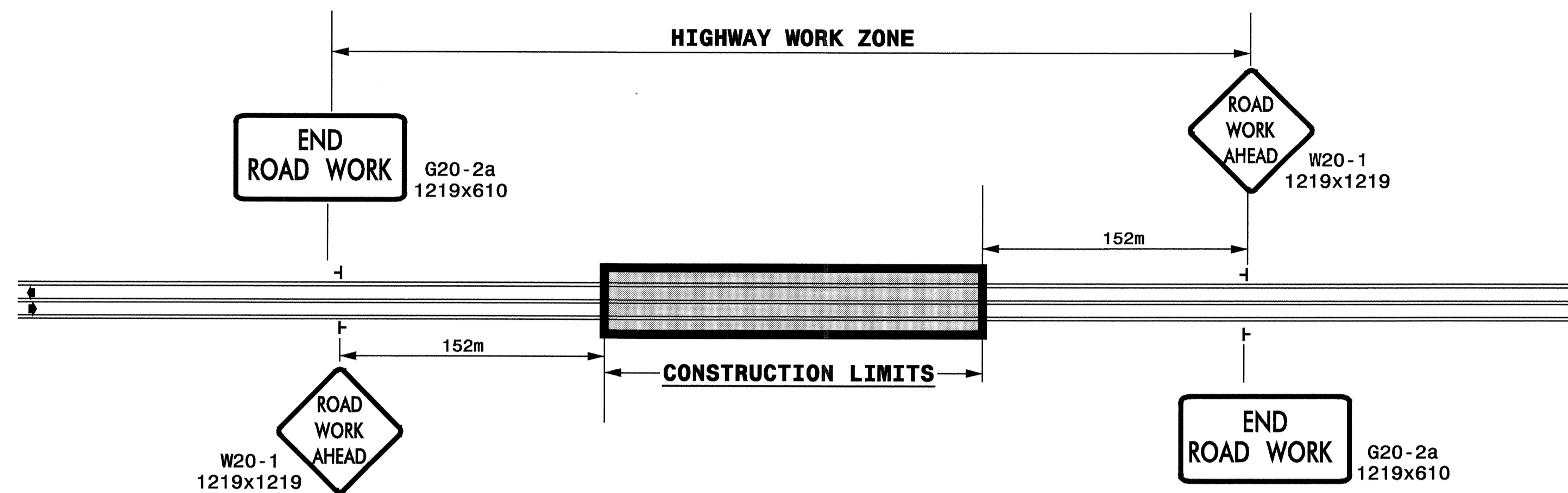
APPROVED: *J. Wolcott* DATE: 9/02/09

**PHASE III DETAIL**

SCALE: NONE		REVISIONS
DATE: 08/09		
DWG. BY: DAH		
DESIGN BY: DAH		
REVIEWED BY: JWW		

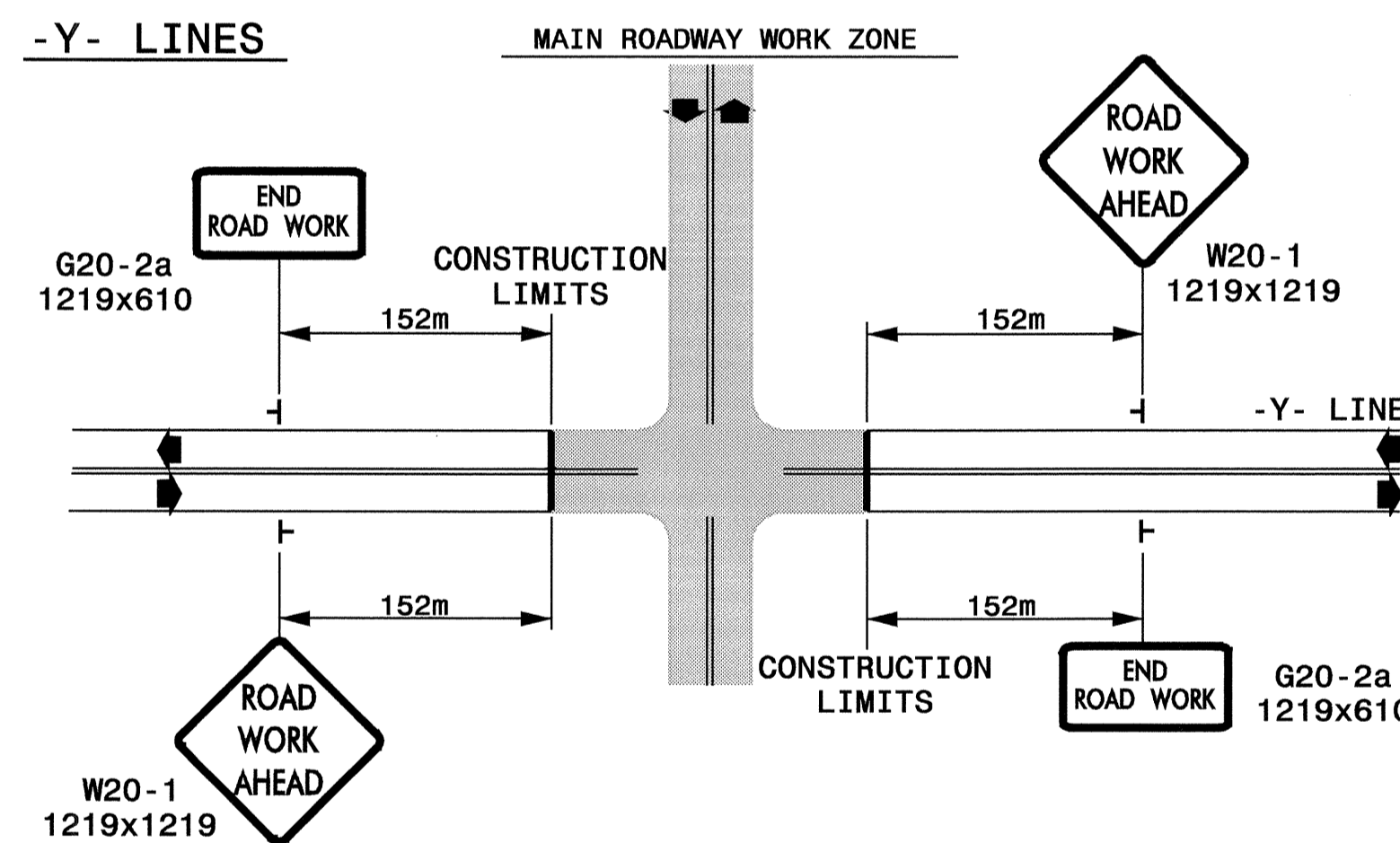
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 ahayes AT WZT244738

**TWO-WAY UNDIVIDED \*\* (L-LINES)**



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

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



DETAIL DRAWING FOR  
TWO-WAY UNDIVIDED  
WORK ZONE WARNING SIGNS

**GENERAL NOTES**

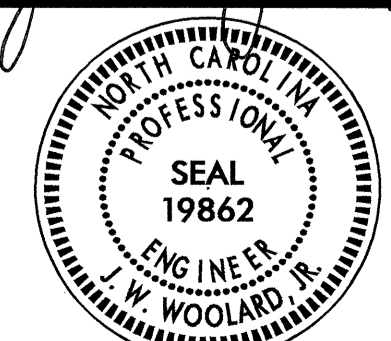
- USE FLUORESCENT ORANGE SHEETING (TYPE VII OR HIGHER) ON ALL ADVANCED WORK ZONE SIGNS.
- DO NOT INSTALL ADVANCE WARNING SIGNS MORE THAN 3 DAYS PRIOR TO BEGINNING OF WORK.
- SIGNS SHOWN ARE REQUIRED FOR WORK ZONES THAT WILL REMAIN IN EFFECT OVERNIGHT. FOR SHORT-TERM DAILY MAINTENANCE TYPE OPERATIONS, 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 1.4Kg STEEL U-CHANNEL POST OR 90mm X 90mm WOOD POST FOR ALL WORK ZONE SIGNS. 1.4Kg 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 1.4Kg STEEL U-CHANNEL POST ARE ALSO ACCEPTABLE FOR USE. ERECT SIGNS PER ROADWAY STANDARD DRAWING 1110.01. PAYMENT FOR WOOD POSTS, 1.4Kg 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

SHEET 1 OF 1

APPROVED: <i>J.W. Woolard, Jr.</i> DATE: 9/2/09	DETAIL DRAWING FOR TWO-WAY UNDIVIDED AND URBAN FREEWAYS ADVANCED WORK ZONE WARNING SIGNS	
SEAL 	SCALE: NONE	REVISIONS
	DATE: 08/09	7-98 10/01
DESIGN BY: DAH	10-98 03/04	
REVIEWED BY: JWW	01/01 11/04	

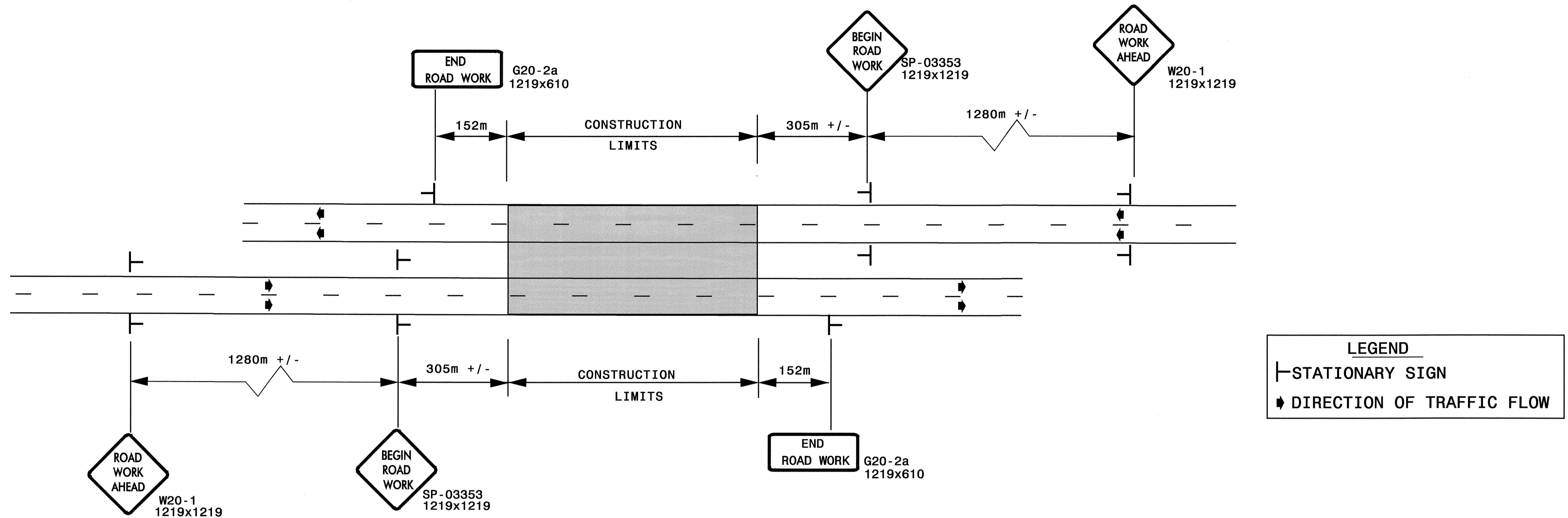
02-SEP-2009 14:34 \\dot\dfsroot\NSProj\Tipprojects-r\2814a\tr\office\tr\officecontrol\top\PhaseIII\NR-2814A.TC.TCP\_Phill\_22-2L2\WAW.S.dgn AT WZTC244738.dwg



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

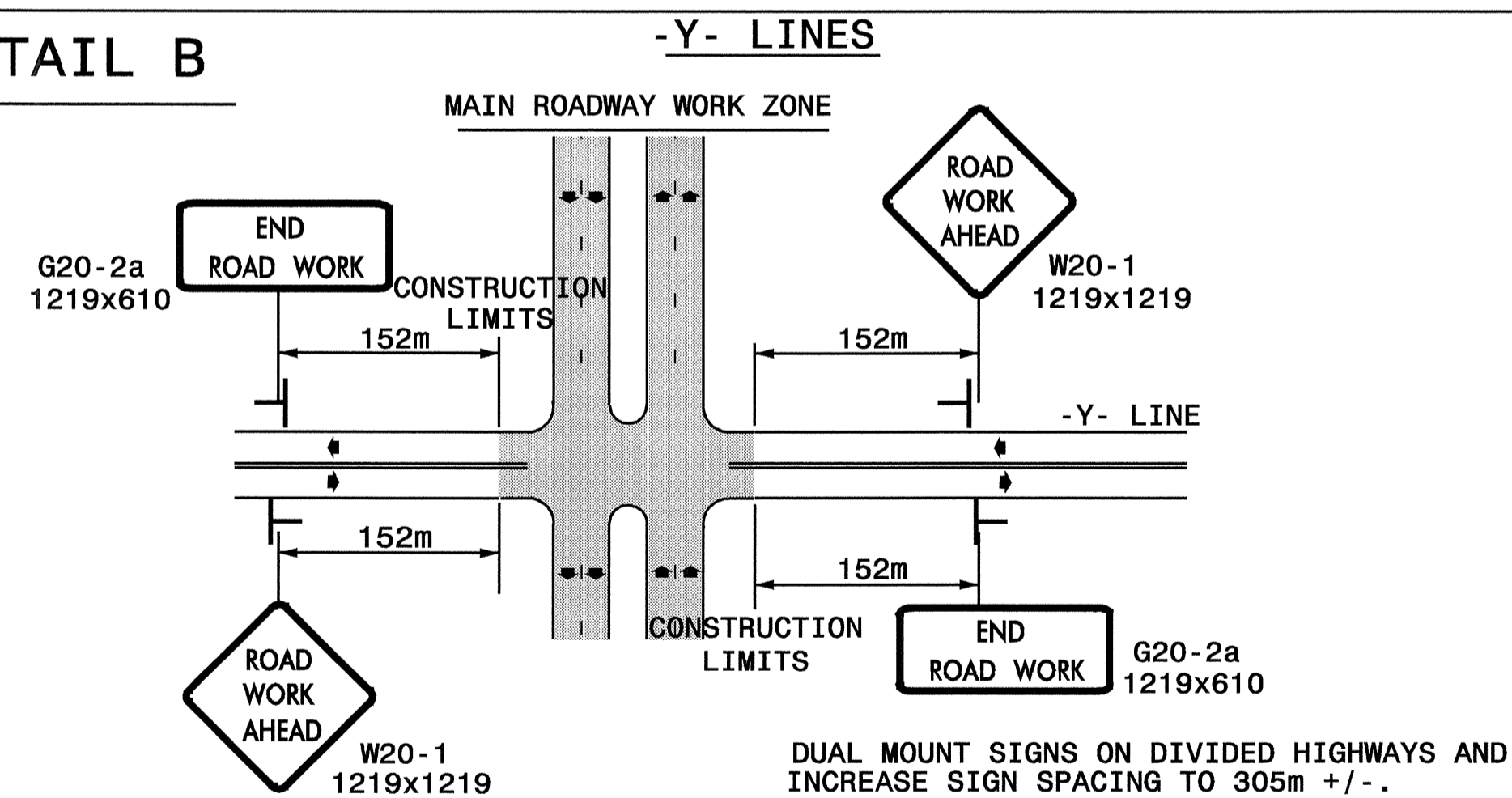
PROJ. REFERENCE NO.	SHEET NO.
R-2814A	TCP-23

## DETAIL A



LEGEND	
	STATIONARY SIGN
▶	DIRECTION OF TRAFFIC FLOW

## DETAIL B



## 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 1.4Kg STEEL U-CHANNEL POST OR 90mm X 90mm WOOD POST FOR ALL WORK ZONE SIGNS. 1.4Kg 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 1.4Kg STEEL U-CHANNEL POST ARE ALSO ACCEPTABLE FOR USE. ERECT SIGNS PER ROADWAY STANDARD DRAWING 1110.01. PAYMENT FOR WOOD POSTS, 1.4Kg 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: <i>J. W. Woolard, Jr.</i> DATE: 7/27/09	ADVANCED WORK ZONE WARNING SIGNS FOR FREEWAYS (4 LANES OR GREATER)	
	SCALE: NONE	REVISIONS
	DATE: 08/09	03/04
	DWG. BY: DAH	
	DESIGN BY: DAH	
REVIEWED BY: JWW		CADD FILE

02-SEP-2009 14:33 \\dot\dfsroot\NNSProj\h\pprojects-r\2814a\tr\office\tr\traffic\tr\top\Phase\NR-2814A\_Tc\_TCP\_Phill\_23\_4L.FWWS.dgn AT WZTC24138