

STATE OF NORTH CAROLINA  
DIVISION OF HIGHWAYS

STATE PROJECT REFERENCE NO. <b>B - 4 1 3 1</b>	SHEET NO. TCP-1
---	--------------------

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

**GUILFORD COUNTY**

**B-4131**

**ROADWAY STANDARD DRAWINGS**

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

STD. NO.	TITLE
1101.02	TEMPORARY LANE CLOSURES
1101.03	TEMPORARY ROAD CLOSURES
1101.04	TEMPORARY SHOULDER CLOSURES
1101.11	TRAFFIC CONTROL DESIGN TABLES
1110.01	STATIONARY WORK ZONE SIGNS
1110.02	PORTABLE WORK ZONE SIGNS
1130.01	DRUMS
1135.01	CONES
1145.01	BARRICADES, TYPE III
1150.01	FLAGGERS
1165.01	TRUCK MOUNTED IMPACT ATTENUATOR
1180.01	SKINNY-DRUMS
1205.01	PAVEMENT MARKINGS - LINE TYPES & OFFSETS
1205.02	PAVEMENT MARKINGS - 2 LANE & MULTILANE ROADWAYS
1205.12	PAVEMENT MARKINGS - BRIDGES
1250.01	PAVEMENT MARKER SPACING
1251.01	RAISED PAVEMENT MARKERS (TEMPORARY & PERMANENT)
1261.01	GUARDRAIL & BARRIER DELINEATOR SPACING
1261.02	GUARDRAIL & BARRIER DELINEATOR TYPES
1262.01	GUARDRAIL END DELINEATION
1264.01	OBJECT MARKERS
1264.02	PLACEMENT OF OBJECT MARKERS

**INDEX OF SHEETS**

SHEET NO.	TITLE
TCP-1	LIST OF APPLICABLE ROADWAY STANDARD DRAWINGS, LEGEND AND INDEX OF SHEETS
TCP-2	PROJECT NOTES
TCP-3	PHASE I OVERVIEW AND PHASING
TCP-4 AND TCP-5	PHASE I DETAILS
TCP-6	PHASE II OVERVIEW AND PHASING
TCP-7 AND TCP-8	PHASE II DETAILS
TCP-9	DETAIL DRAWING FOR TWO-WAY UNDIVIDED AND URBAN FREEWAYS ADVANCE WORK ZONE WARNING SIGNS
PM-1	PAVEMENT MARKING SCHEDULE

**LEGEND**

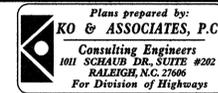
- GENERAL**
- DIRECTION OF TRAFFIC FLOW
  - NORTH ARROW
  - PROPOSED PVMT. EXIST. PVMT.
  - PROPOSED CONSTRUCTION
  - REMOVAL OF EXISTING PAVEMENT AND BRIDGE
- TRAFFIC CONTROL DEVICES**
- TYPE I BARRICADE
  - TYPE II BARRICADE
  - TYPE III BARRICADE
  - CONE
  - DRUM
  - FLASHING ARROW PANEL (TYPE C)
  - TYPE 'B' WARNING LIGHT
  - STATIONARY SIGN
  - PORTABLE SIGN
  - STATIONARY OR PORTABLE SIGN
  - WARNING FLAGS
  - CRASH CUSHION
  - CHANGEABLE MESSAGE SIGN
  - TRUCK MOUNTED IMPACT ATTENUATOR (TMIA)
  - POLICE
  - FLAGGER
- PAVEMENT MARKINGS**
- CRYSTAL/CRYSTAL PAVEMENT MARKER
  - YELLOW/YELLOW PAVEMENT MARKER
  - CRYSTAL/RED PAVEMENT MARKER
  - PAVEMENT MARKING SYMBOLS

**TIP PROJECT:**

I:\16\2007\Projects\45\B4131\TrafficControl\TCP\002\B4131.TC.Tcp1L\_title.dgn

PLAN REVIEWED BY: N.C.D.O.T. WORK ZONE TRAFFIC CONTROL UNIT		APPROVED: <i>Mill R. Rupp</i> DATE: 10-17-07	PLAN PREPARED FOR N.C.D.O.T. BY:
J. S. BOURNE, P.E.	WORK ZONE TRAFFIC CONTROL ENGINEER	SEAL 	M. T. RZEPKA, P.E. PROJECT ENGINEER
G. L. GETTIER, PE	TRAFFIC CONTROL PROJECT ENGINEER		B. L. MARIOTTE DESIGN ENGINEER
J. W. WOOLARD, PE	TRAFFIC CONTROL PROJ. DESIGN ENGINEER		B. L. MARIOTTE DESIGN TECHNICIAN
	TRAFFIC CONTROL DESIGN ENGINEER		
	TRAFFIC CONTROL DESIGN TECHNICIAN		

# PROJECT NOTES



## 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 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.

### LANE AND SHOULDER CLOSURE REQUIREMENTS

- A) 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.
- B) 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.
- C) 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.
- D) 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.
- E) 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.
- F) DO NOT INSTALL MORE THAN ONE LANE CLOSURE, IN ANY ONE DIRECTION, ON SR 3045, MOUNT HOPE CHURCH RD.

### PAVEMENT EDGE DROP OFF REQUIREMENTS

- G) 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 WITH SUITABLE COMPACTED MATERIAL, AS APPROVED BY THE ENGINEER, AT NO EXPENSE TO THE DEPARTMENT.
- H) 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) 500 FT IN ADVANCE AND A MINIMUM OF EVERY HALF MILE THROUGHOUT THE UNEVEN AREA.

### TRAFFIC PATTERN ALTERATIONS

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

### SIGNING

- J) 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.
- K) PROVIDE PERMANENT SIGNING.
- L) ENSURE ALL NECESSARY SIGNING IS IN PLACE PRIOR TO ALTERING ANY TRAFFIC PATTERN.

### TRAFFIC CONTROL DEVICES

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

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

ROAD NAME	MARKING	MARKER
1. SR 3394, COMPANY MILL RD.	PAINT	PERMANENT RAISED

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

ROAD NAME	MARKING	MARKER
1. SR 3394, COMPANY MILL RD.	PAINT	TEMPORARY RAISED

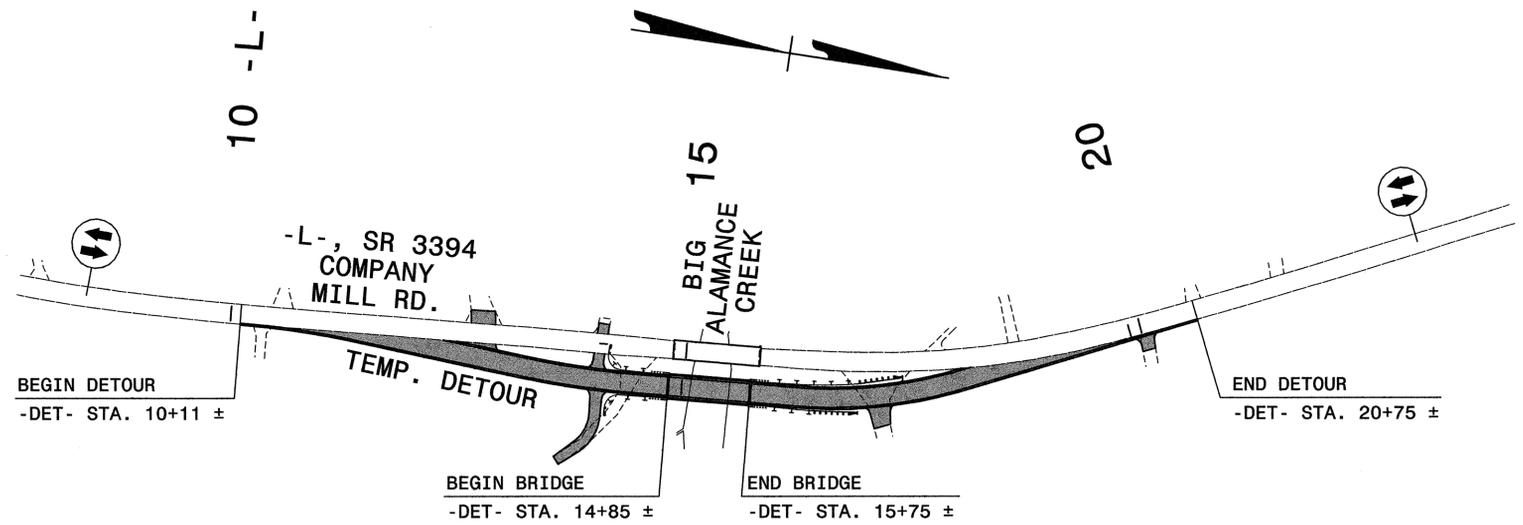
- R) PLACE TWO APPLICATIONS OF PAINT PAVEMENT MARKINGS ON THE FINAL WEARING SURFACE. PLACE THE SECOND APPLICATION OF PAINT UPON SUFFICIENT DRYING TIME IF THE FIRST.
- S) PLACE ONE APPLICATION OF PAINT FOR TEMPORARY TRAFFIC PATTERNS. PLACE A SECOND APPLICATION OF PAINT SIX (6) MONTHS AFTER THE INITIAL APPLICATION AND EVERY SIX MONTHS AS DIRECTED BY THE ENGINEER.
- T) TIE PROPOSED PAVEMENT MARKING LINES TO EXISTING PAVEMENT MARKING LINES.
- U) REMOVE/REPLACE ANY CONFLICTING/DAMAGED PAVEMENT MARKINGS AND MARKERS BY THE END OF EACH DAY'S OPERATION.

### MISCELLANEOUS

- V) MAINTAIN ACCESS TO DRIVEWAYS AT ALL TIMES.

APPROVED: <i>Michael T. Ryznar</i> DATE: 10-17-07		<b>PROJECT NOTES</b>	
SEAL 	SCALE: NONE		REVISIONS
	DATE: 10-07		
	DWG. BY: BLM		
	DESIGN BY: BLM		
	REVIEWED BY: MTR		

I:\16\2007  
 P:\TIP\Group45\B4131\ko\B4131\TrafficControl\TCP\002\B4131.TC\_Top2\_notes.dgn  
 KO & ASSOCIATES, P.C.



### PHASE I

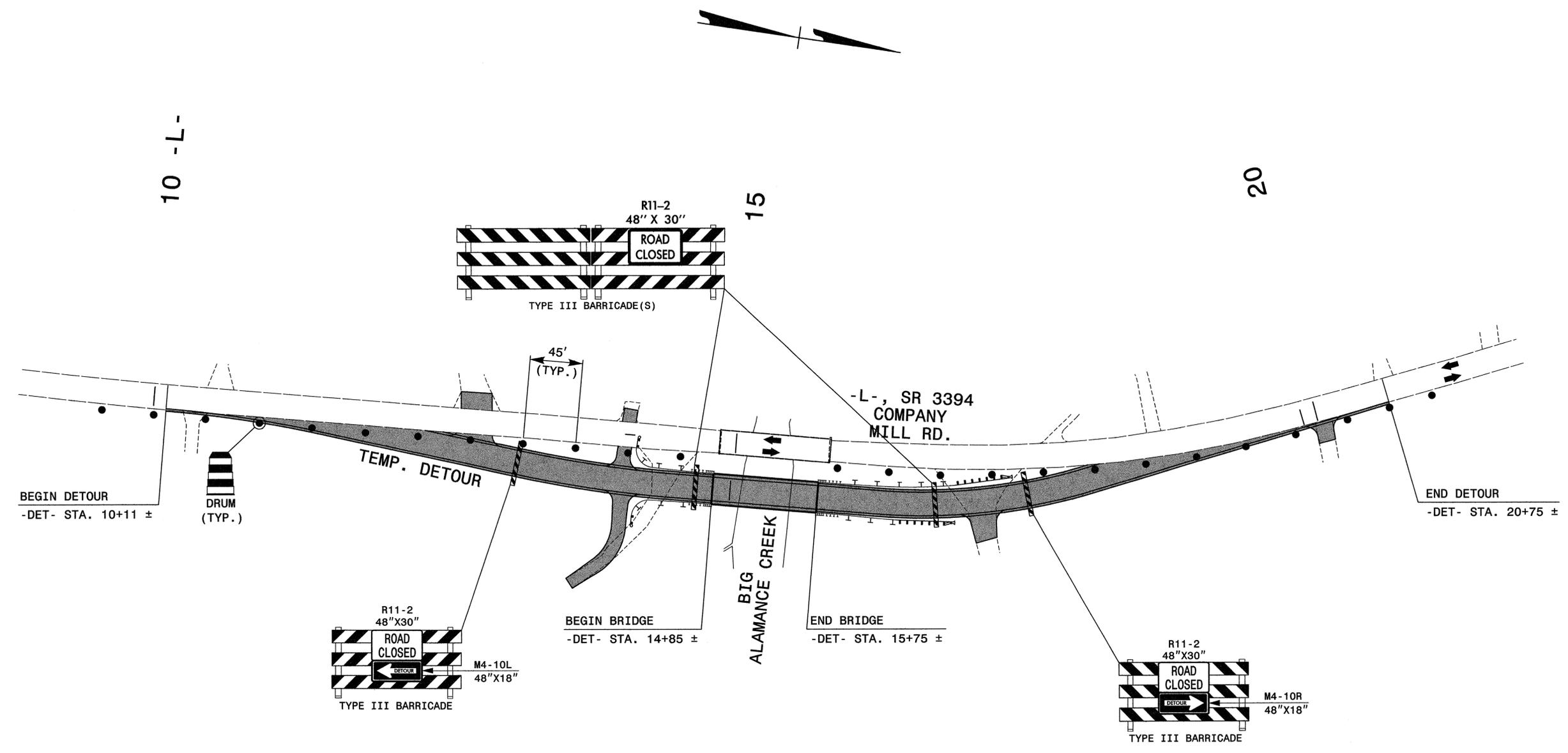
- STEP 1: - INSTALL WORK ZONE WARNING SIGNS (SEE SHEET TCP-9).
- STEP 2: - USING ROADWAY STANDARD DRAWING NUMBER 1101.04, SHEET 1 OF 1, BEGIN CONSTRUCTION OF TEMPORARY DETOUR STRUCTURE FROM -DET- STA. 14+85 ± TO -DET- STA. 15+75 ±.
- STEP 3: - USING ROADWAY STANDARD DRAWING NUMBER 1101.02, SHEET 1 OF 9, CONSTRUCT TEMPORARY DETOUR, INCLUDING TEMPORARY DRIVEWAY TIE-INS EXCLUDING GUARDRAILS LEFT OF TEMPORARY DETOUR, UP TO THE EXISTING EDGE AND ELEVATION OF SR 3394, COMPANY MILL ROAD BUT NOT INCLUDING THE FINAL LAYER OF SURFACE COURSE FROM -DET- STA. 10+11 ± TO -DET- STA. 20+75 ± (SEE TCP-4, ROADWAY PLANS AND STRUCTURE PLANS).  
  
 - USING ROADWAY STANDARD DRAWING NUMBER 1101.04, SHEET 1 OF 1, COMPLETE CONSTRUCTION OF TEMPORARY DETOUR STRUCTURE FROM -DET- STA. 14+85 ± TO -DET- STA. 15+75 ±.

WORKING IN A CONTINUOUS MANNER, COMPLETE THE FOLLOWING WORK IN PHASE I STEPS 4 AND 5 USING ROADWAY STANDARD DRAWING NUMBER 1101.02, SHEET 1 OF 9.

- STEP 4: - PLACE TRAFFIC IN A ONE-LANE TWO-WAY PATTERN IN THE EXISTING SOUTHBOUND LANE OF SR 3394, COMPANY MILL RD.. PAVE / WEDGE THE PROPOSED NORTHBOUND LANE OF TEMPORARY DETOUR INCLUDING THE FINAL LAYER OF SURFACE COURSE FROM -DET- STA. 10+11 ± TO -DET- STA. 20+75 ± (SEE ROADWAY PLANS).  
  
 - PLACE WHITE EDGE LINE AND YELLOW DOUBLE CENTERLINE (PAINT) AND MARKERS (TEMPORARY RAISED) ON PROPOSED NORTHBOUND LANE OF TEMPORARY DETOUR FROM -DET- STA. 10+11 ± TO -DET- STA. 20+75 ± (SEE SHEET TCP-5).
- STEP 5: - PLACE TRAFFIC IN A ONE-LANE TWO-WAY PATTERN IN THE PROPOSED NORTHBOUND LANE OF TEMPORARY DETOUR. PAVE / WEDGE THE PROPOSED SOUTHBOUND LANE OF TEMPORARY DETOUR INCLUDING THE FINAL LAYER OF SURFACE COURSE FROM -DET- STA. 10+11 ± TO -DET- STA. 20+75 ± (SEE ROADWAY PLANS).  
  
 - CONSTRUCT GUARDRAIL LEFT OF TEMPORARY DETOUR.  
  
 - PLACE WHITE EDGELINE (PAINT) ON PROPOSED SOUTHBOUND LANE OF TEMPORARY DETOUR FROM -DET- STA. 10+11 ± TO -DET- STA. 20+75 ± AND PLACE TRAFFIC IN A TWO-LANE TWO-WAY PATTERN (SEE TCP-5).

LEGEND	
■	PROPOSED CONSTRUCTION

APPROVED: <i>Michael J. Ryznar</i> DATE: 10-3-07		<b>PHASE I OVERVIEW AND PHASING</b>	
SEAL 	SCALE: NONE		REVISIONS
	DATE: 10-07		
	DWG. BY: BLM		
	DESIGN BY: BLM		
REVIEWED BY: MTR			



10/2/2007  
 R:\TrafficControl\TCP\000\B4131\_TC\_Top4\_phidet1s.dgn  
 KO & ASSOCIATES, P.C.

**LEGEND**

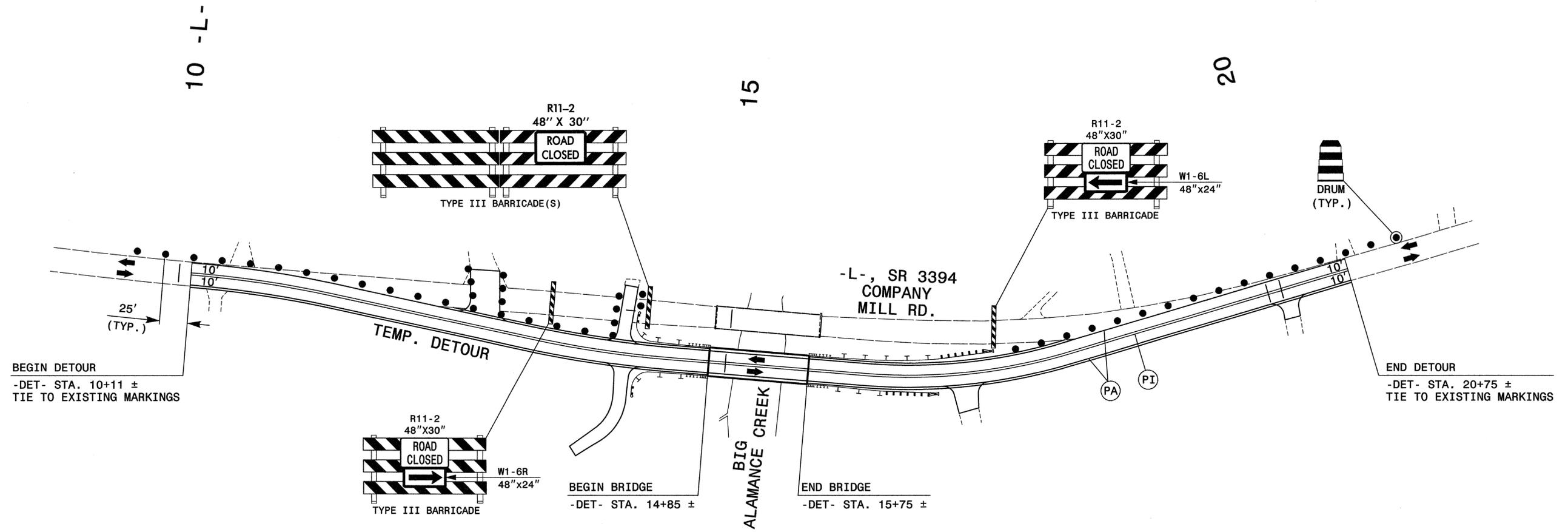
PROPOSED CONSTRUCTION

APPROVED: *Michael Rzepka* DATE: 10-3-07

SEAL

**PHASE I DETAILS**

SCALE:	NONE		<b>REVISIONS</b> <table border="1" style="width: 100%; height: 40px;"> <tr><td> </td><td> </td></tr> <tr><td> </td><td> </td></tr> </table>				
DATE:	10-07						
DWG. BY:	BLM						
DESIGN BY:	BLM						
REVIEWED BY:	MTR	CADD FILE					



BEGIN DETOUR  
 -DET- STA. 10+11 ±  
 TIE TO EXISTING MARKINGS

END DETOUR  
 -DET- STA. 20+75 ±  
 TIE TO EXISTING MARKINGS

BEGIN BRIDGE  
 -DET- STA. 14+85 ±

END BRIDGE  
 -DET- STA. 15+75 ±

NOTE: FOR PAVEMENT MARKINGS BEYOND PROJECT LIMITS AND FOR SIGNING SEE ROADWAY STANDARD DRAWING NUMBER 1101.03, SHEET 3 OF 9.

APPROVED: *Michael R. Rzepka* DATE: 10-3-07



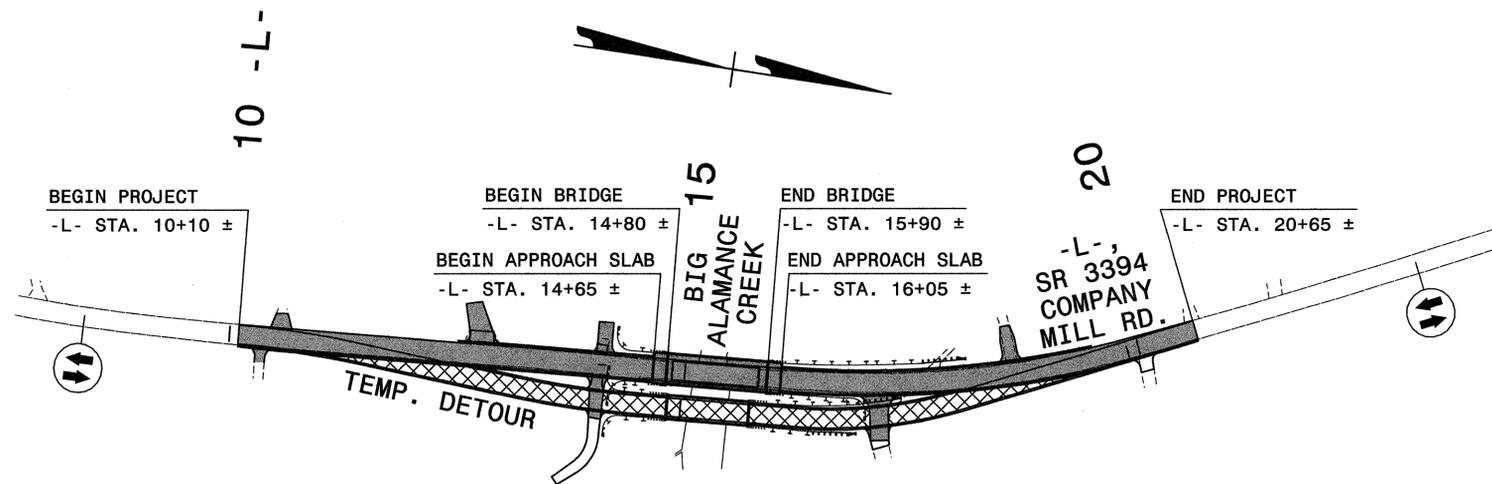
### PHASE I DETAILS

SCALE: NONE  
 DATE: 10-07  
 DWG. BY: BLM  
 DESIGN BY: BLM  
 REVIEWED BY: MTR



REVISIONS	

10/2/2007  
 R:\TrafficControl\TCP\1007\B4131\_TC\_Top5\_phidet1.s.dgn  
 KO & Associates, P.C.



**PHASE II**

- STEP 1: - AWAY FROM TRAFFIC:**
- REMOVE EXISTING STRUCTURE ON SR 3394, COMPANY MILL RD.
  - BEGIN CONSTRUCTION OF PROPOSED STRUCTURE FROM -L- STA. 14+65 ± TO -L- STA. 16+05 ± (SEE SHEET TCP-7 AND STRUCTURE PLANS).

COMPLETE THE FOLLOWING WORK IN PHASE II, STEPS 2, 3 AND 4 USING ROADWAY STANDARD DRAWING NUMBER 1101.02, SHEET 1 OF 9.

- STEP 2:** - CONSTRUCT PROPOSED -L- UP TO BUT NOT INCLUDING THE FINAL LAYER OF SURFACE COURSE FROM -L- STA. 12+77 ± TO -L- STA. 17+50 ± EXCLUDING GUARDRAILS ON THE RIGHT SIDE OF PROPOSED -L- (SEE SHEET TCP-7 AND ROADWAY PLANS).
- STEP 3:** - CONSTRUCT PROPOSED -L-, LEFT OF -L- AND TEN FEET (10') RIGHT OF -L- UP TO BUT NOT INCLUDING THE FINAL LAYER OF SURFACE COURSE FROM, -L- STA. 17+50 ± TO -L- STA. 18+15 ± (SEE SHEET TCP-7, SECTION A-A AND ROADWAY PLANS).
- CONSTRUCT PROPOSED -L- UP TO THE EXISTING EDGE AND ELEVATION OF SR 3394, COMPANY MILL RD. AT THE FOLLOWING LOCATIONS (SEE SHEET TCP-7 AND ROADWAY PLANS):
  - L- STA. 10+10 ± TO -L- STA. 12+77 ±
  - L- STA. 18+15 ± TO -L- STA. 20+65 ±

- STEP 4:** - COMPLETE CONSTRUCTION OF PROPOSED STRUCTURE FROM -L- STA. 14+65 ± TO -L- STA. 16+05 ±.

WORKING IN A CONTINUOUS MANNER, COMPLETE THE FOLLOWING WORK IN PHASE II STEPS 5 THRU 7 USING ROADWAY STANDARD DRAWING NUMBER 1101.02, SHEET 1 OF 9.

- STEP 5:** - PLACE TRAFFIC IN A ONE-LANE TWO-WAY PATTERN IN THE EXISTING NORTHBOUND LANE OF TEMPORARY DETOUR. PAVE / WEDGE THE PROPOSED SOUTHBOUND LANE OF PROPOSED -L- UP TO BUT NOT INCLUDING THE FINAL LAYER OF SURFACE COURSE AT THE FOLLOWING LOCATIONS (SEE SHEET TCP-8 AND ROADWAY PLANS):
- L- STA. 10+00 ± TO -L- STA. 12+77 ±
  - L- STA. 18+15 ± TO -L- STA. 20+65 ±

- STEP 6:** - PLACE TEMPORARY WHITE EDGELINE (PAINT) ON THE LEFT SIDE OF PROPOSED -L- AND YELLOW DOUBLE CENTERLINE (PAINT) AND MARKERS (TEMPORARY RAISED) FROM -L- STA. 10+10 ± TO -L- STA. 20+65 ± AND PLACE TRAFFIC IN A ONE-LANE TWO-WAY PATTERN IN THE PROPOSED SOUTHBOUND LANE OF PROPOSED -L- FROM -L- STA. 10+10 ± TO -L- STA. 20+65 ± (SEE SHEET TCP-8).
- PLACE GUARDRAIL ON THE RIGHT SIDE OF -L- (SEE SHEET TCP-8 AND ROADWAY PLANS).
- STEP 7:** - PLACE TEMPORARY WHITE EDGELINE (PAINT) ON THE RIGHT SIDE OF PROPOSED -L- FROM -L- STA. 10+10 ± TO -L- STA. 20+65 ±, AND PLACE TRAFFIC IN TEMPORARY TWO-LANE TWO-WAY PATTERN FROM -L- STA. 10+10 ± TO -L- STA. 20+65 ± (SEE SHEET TCP-8).

COMPLETE THE FOLLOWING WORK IN PHASE II, STEPS 8 AND 9 USING ROADWAY STANDARD DRAWING NUMBER 1101.02, SHEET 1 OF 9.

- STEP 8:** - CONSTRUCT THE RIGHT SIDE OF PROPOSED -L- UP TO BUT NOT INCLUDING THE FINAL LAYER OF SURFACE COURSE FROM -L- STA. 17+50 ± TO -L- STA. 18+15 ± (SEE SHEET TCP-8 AND ROADWAY PLANS).
- PAVE / WEDGE THE PROPOSED NORTHBOUND LANE OF PROPOSED -L- UP TO BUT NOT INCLUDING THE FINAL LAYER OF SURFACE COURSE AT THE FOLLOWING LOCATIONS (SEE SHEET TCP-8 AND ROADWAY PLANS):
  - L- STA. 10+10 ± TO -L- STA. 12+77 ±
  - L- STA. 17+50 ± TO -L- STA. 20+65 ±

- STEP 9:** - REMOVE TEMPORARY DETOUR AND DETOUR BRIDGE FROM -DET- STA. 10+11 ± TO -DET- STA. 20+75 ± (SEE SHEET TCP-8) (REFER TO ROADWAY STANDARD DRAWING NUMBER 1101.02, SHEET 1 OF 9).

- STEP 10:** - USING ROADWAY STANDARD DRAWING NUMBER 1101.02, SHEET 1 OF 9, PLACE THE FINAL LAYER OF SURFACE COURSE, FINAL PAVEMENT MARKINGS (PAINT) AND MARKERS (PERMANENT RAISED) IN THE FINAL PATTERN ON PROPOSED -L- FROM -L- STA. 10+10 ± TO -L- STA. 20+65 ±, PER STANDARDS OR AS DIRECTED BY THE ENGINEER. REPLACE ANY ORIGINAL MARKINGS AND MARKERS, OFF THE PROJECT LIMITS, THAT WERE ALTERED OR AS DIRECTED BY THE ENGINEER.

- STEP 11:** - REMOVE ALL TRAFFIC CONTROL DEVICES.

**LEGEND**

- PROPOSED CONSTRUCTION
- REMOVAL OF DETOUR AND DETOUR BRIDGE

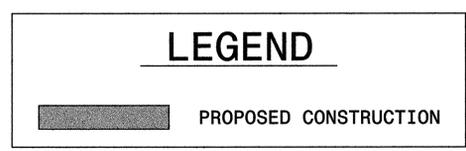
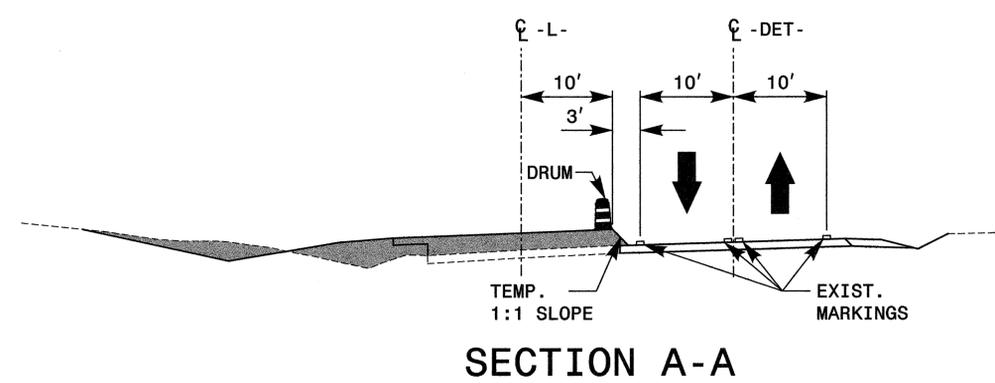
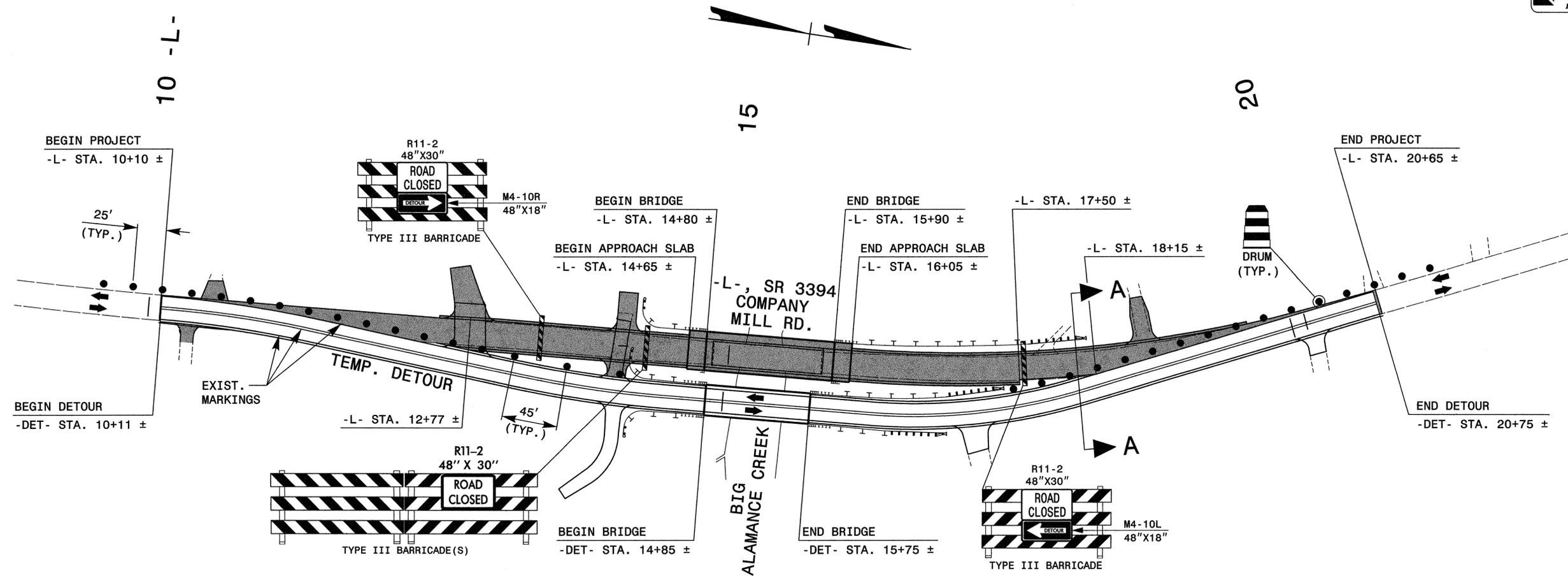
APPROVED: *Michael T. Rzepka* DATE: 10-17-07

SEAL

**PHASE II OVERVIEW AND PHASING**

SCALE: NONE		REVISIONS
DATE: 10-07		
DWG. BY: BLM		
DESIGN BY: BLM		
REVIEWED BY: MTR		

10/16/2007  
 P:\TIP\Group45\B4131\ko\B4131\Traffic\Traffic\CP1002\B4131\_TC\_Tcp6\_ph2ov.dgn  
 KO & Associates, P.C.



APPROVED: *Michael T. Klemm* DATE: 10-3-07

SEAL

**NORTH CAROLINA PROFESSIONAL ENGINEERS**

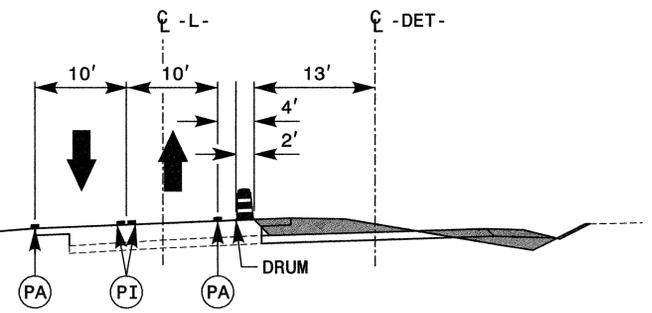
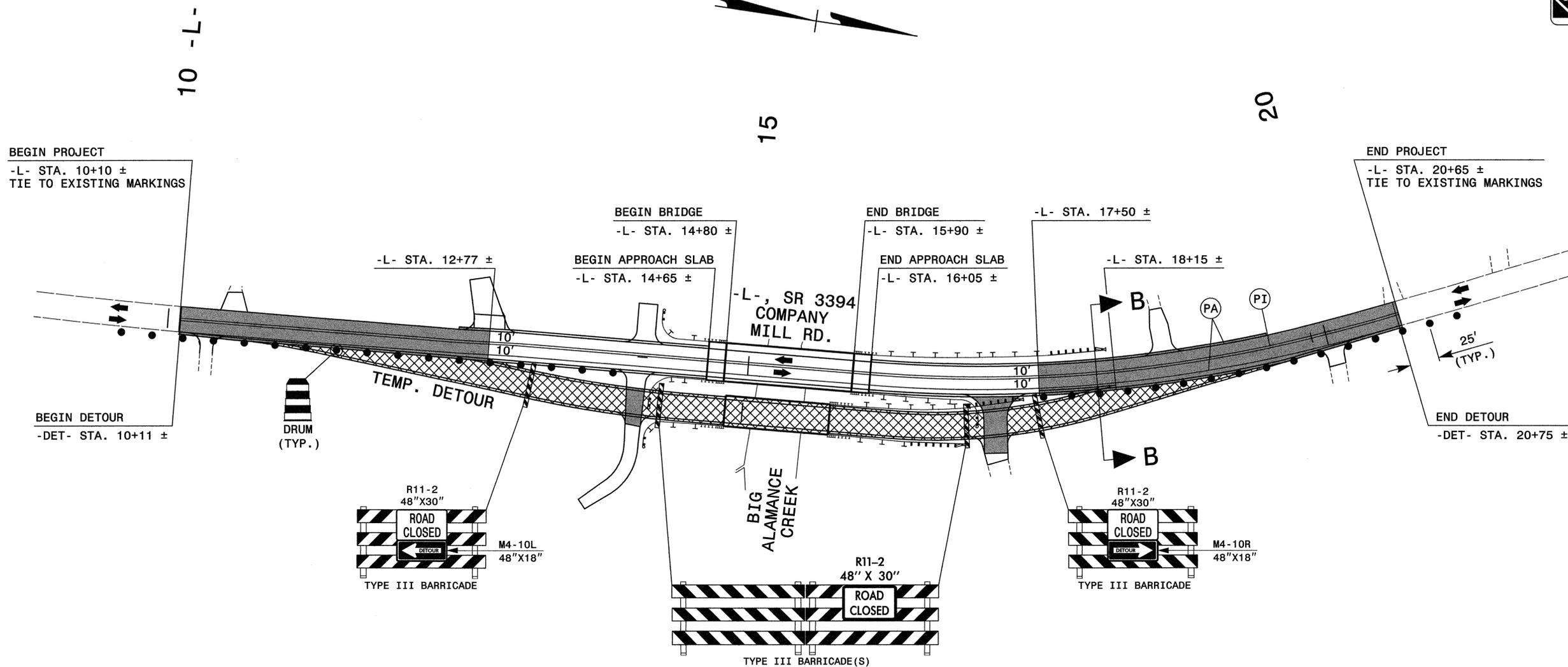
SEAL 15876

MICHAEL T. KLEMM

**PHASE II DETAILS**

SCALE:	NONE		<b>REVISIONS</b> <table border="1"> <tr><td> </td><td> </td></tr> <tr><td> </td><td> </td></tr> <tr><td> </td><td> </td></tr> <tr><td> </td><td> </td></tr> </table>								
DATE:	10-07										
DWG. BY:	BLM										
DESIGN BY:	BLM										
REVIEWED BY:	MTR	CADD FILE									

10/2/2007  
 R:\TrafficControl\TCP\000\B4131\TC\_Top7\_ph2det1s.dgn  
 KO & Associates, P.C.



SECTION B-B

**LEGEND**

	PROPOSED CONSTRUCTION
	REMOVAL OF DETOUR AND DETOUR BRIDGE

APPROVED: *Michael T. Rzepa* DATE: 10-3-07



**PHASE II DETAILS**

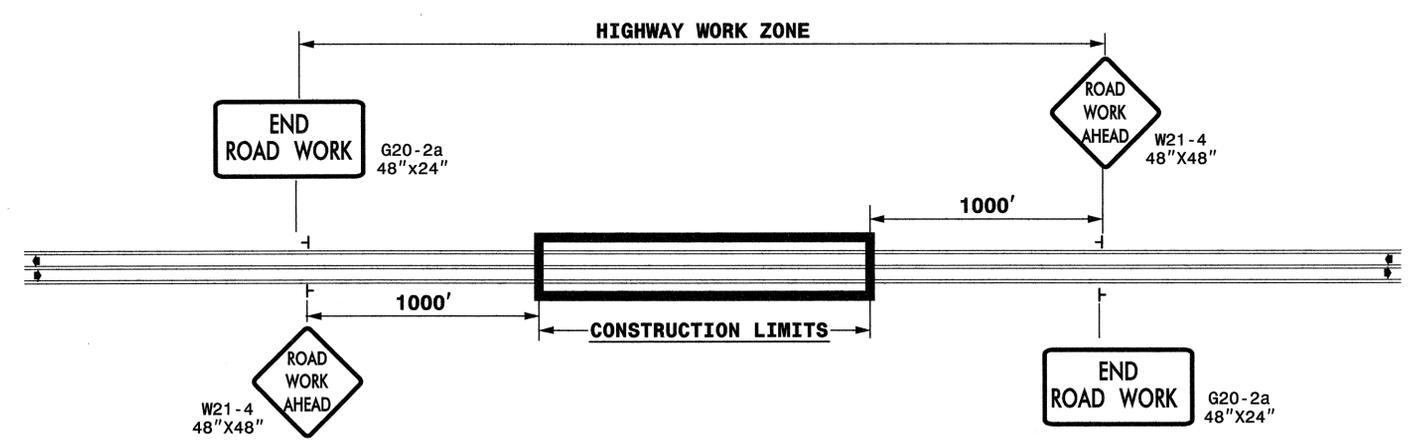
SCALE: NONE		<table border="1"> <tr><th colspan="2">REVISIONS</th></tr> <tr><td> </td><td> </td></tr> <tr><td> </td><td> </td></tr> <tr><td> </td><td> </td></tr> </table>	REVISIONS							
REVISIONS										
DATE: 10-07										
DWG. BY: BLM										
DESIGN BY: BLM										
REVIEWED BY: MTR	CADD FILE									

10/2/2007  
R:\TrafficControl\TCP\007\B4131\_TC\_Top8\_ph2detils.dgn  
KO & Associates, P.C.

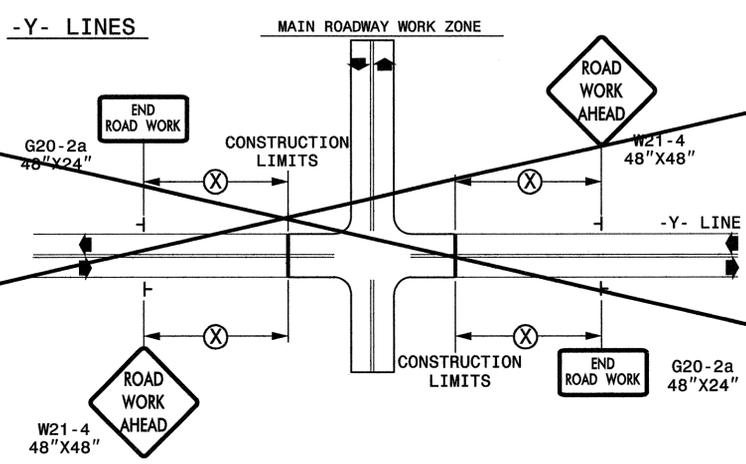
Plans prepared by:  
**KO & ASSOCIATES, P.C.**  
 Consulting Engineers  
 1011 SCHAUH DR., SUITE #202  
 RALEIGH, N.C. 27606  
 For Division of Highways

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

**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.

**DETAIL DRAWING FOR  
 TWO-WAY UNDIVIDED  
 WORK ZONE WARNING SIGNS**

**LEGEND**

- ┆ STATIONARY SIGN
- ◀ DIRECTION OF TRAFFIC FLOW

SHEET 1 OF 1

APPROVED: <i>Michael T. Rzepka</i> DATE: 10-3-07	DETAIL DRAWING FOR TWO-WAY UNDIVIDED AND URBAN FREEWAYS ADVANCED WORK ZONE WARNING SIGNS		
	SCALE: NONE		
	DATE: 10-07		REVISIONS
	DWG. BY: BLM		
	DESIGN BY: BLM		
	REVIEWED BY: MTR		

10/2/2007  
 R:\TrafficControl\TCP\007\B4131\_TC\_Tcp9\_wzws.dgn  
 KO & Associates, P.C.