

STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

PLAN FOR PROPOSED
TRAFFIC CONTROL

ONSLOW COUNTY

STATE PROJECT REFERENCE NO. SHEET NO.

U-5132

TCP-1

TIP: U-5132

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 JANUARY 2012 ARE APPLICABLE TO THIS PROJECT AND BY REFERENCE HEREBY ARE
CONSIDERED A PART OF THESE PLANS:

STD. NO.	TITLE
1101.01	WORK ZONE ADVANCE WARNING SIGNS
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
1160.01	TEMPORARY CRASH CUSHION
1165.01	TRUCK MOUNTED IMPACT ATTENUATOR
1170.01	PORTABLE CONCRETE BARRIER
1180.01	SKINNY-DRUM
1205.01	PAVEMENT MARKINGS - LINE TYPES & OFFSETS
1205.02	PAVEMENT MARKINGS - 2 LANE & MULTILANE ROADWAYS
1205.03	PAVEMENT MARKINGS - INTERCHANGES
1205.04	PAVEMENT MARKINGS - SIGNALIZED INTERSECTIONS
1205.05	PAVEMENT MARKINGS - TURN LANES
1205.05	PAVEMENT MARKINGS - TURN LANES
1205.06	PAVEMENT MARKINGS - THRU-LANE DROPS
1205.09	PAVEMENT MARKINGS - PAINTED ISLANDS
1250.01	PAVEMENT MARKER SPACING
1251.01	RAISED PAVEMENT MARKERS (TEMPORARY & PERMANENT)
1253.01	SNOWPLOWABLE RAISED PAVEMENT MARKERS
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-1A	TEMPORARY PAVEMENT MARKING SCHEDULE
TCP-2 & TCP-3	GENERAL NOTES
TCP-4	PROJECT PHASING
TCP-5	PHASE I OVERVIEW
TCP-6 THRU TCP-13	PHASE I DETAIL SHEETS
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TCP-26	PHASE III OVERVIEW
TCP-27 THRU TCP-29	PHASE III DETAIL SHEETS
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TCP-31 & 31A	SIGN DESIGNS

LEGEND

GENERAL

- DIRECTION OF TRAFFIC FLOW
- NORTH ARROW
- PROPOSED PVMT. EXIST. PVMT.
- WORK AREA
- REMOVAL OF EXISTING PAVEMENT

TRAFFIC CONTROL DEVICES

- TYPE I BARRICADE
- TYPE II BARRICADE
- TYPE III BARRICADE
- CONE
- DRUM SKINNY DRUM
- FLASHING ARROW PANEL (TYPE C)
- STATIONARY SIGN
- PORTABLE SIGN
- STATIONARY OR PORTABLE SIGN
- PORTABLE CONCRETE BARRIER
- 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

CONTRACT: C202816

NCDOT CONTACT:

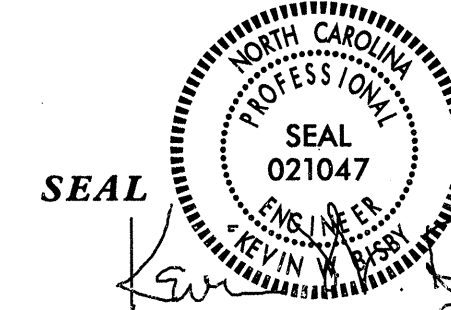
J. S. KITE, PE - EASTERN WZTC ENGINEER
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PLANS PREPARED BY :

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NC LICENSE NO. F-0112 • (919) 878-9560

FOR
DIVISION OF HIGHWAYS



12.21.2011

K. W. BISBY, PE TRAFFIC CONTROL ENGINEER

M. A. COLE TRAFFIC CONTROL PROJECT DESIGNER

N. HARRIS TRAFFIC CONTROL DESIGNER

PAVEMENT MARKING SCHEDULE

SYMBOL	DESCRIPTION	PAY ITEM
TEMPORARY PAVEMENT MARKINGS		
		PAINT (24")
P4	WHITE STOPBAR (2X)	
P5	WHITE CROSSWALK LINE (2X)	
		PAINT (4")
PA	WHITE EDGELINE (2X)	
PB	YELLOW EDGELINE (2X)	
PC	10 FT. WHITE SKIP (2X)	
PD	2 FT. WHITE MINISKIP (2X)	
PE	WHITE SOLID LANE LINE (2X)	
PI	YELLOW DOUBLE CENTER (2X)	
		PAINT (8")
PR	WHITE GORELINE (2X)	
PV	YELLOW DIAGONAL (2X)	
PAINT MARKING CHARACTERS		
QI	ALPHANUMERIC CHAR. (2X)	
PAINT MARKING SYMBOLS		
QA	LEFT TURN ARROW (2X)	
QB	RIGHT TURN ARROW (2X)	
QC	STRAIGHT ARROW (2X)	
QE	COMBO. STRAIGHT/RIGHT (2X)	
YL	24" YIELD LINE TRIANGLE (2X)	
MARKERS		
TEMPORARY RAISED PAVEMENT MARKERS		
MH	YELLOW & YELLOW	
MI	CRYSTAL & RED	

NOTE: FOR EACH PAINT PAVEMENT MARKING ITEM, 1X IMPLIES A SINGLE APPLICATION, 2X IMPLIES TWO APPLICATIONS.

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<p>PLANS PREPARED BY :</p> <p>RK K</p> <p>RUMMEL, KLEPPER & KAHL, LLP 900 RIDGEFIELD DRIVE SUITE 350 RALEIGH, NORTH CAROLINA 27609-3960 NC LICENSE NO. F-0112 (919) 878-9560</p> <p style="text-align: center;">FOR</p> <p style="text-align: center;">THE DIVISION OF HIGHWAYS</p>		<p>TEMPORARY PAVEMENT MARKING SCHEDULE</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 60%;">SCALE: NONE</td> <td style="width: 40%;">REVISIONS</td> </tr> <tr> <td>DATE: 12/2011</td> <td></td> </tr> <tr> <td>DESIGN BY: NH</td> <td></td> </tr> <tr> <td>DESIGN BY: MAC</td> <td></td> </tr> <tr> <td>REVIEWED BY: KWB</td> <td></td> </tr> </table>	SCALE: NONE	REVISIONS	DATE: 12/2011		DESIGN BY: NH		DESIGN BY: MAC		REVIEWED BY: KWB	
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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 UNDESIRABLE 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 CLOSURE TIME RESTRICTIONS

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

ROAD NAME	DAY AND TIME RESTRICTIONS
NC 24	MONDAY THRU FRIDAY 5:30 A.M. TO 8:00 P.M.
BELL FORK ROAD	MONDAY THRU FRIDAY 5:30 A.M. TO 8:30 A.M. 4:00 P.M. TO 7:00 P.M.

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

ROAD NAME
NC 24
BELL FORK ROAD

HOLIDAY

- FOR ANY UNEXPECTED OCCURRENCE THAT CREATES UNUSUALLY HIGH TRAFFIC VOLUMES, AS DIRECTED BY THE ENGINEER.
- FOR NEW YEAR'S, BETWEEN THE HOURS OF 5:30 A.M. DECEMBER 31st TO 8:00 P.M. JANUARY 2ND. IF NEW YEAR'S DAY IS ON A FRIDAY, SATURDAY, SUNDAY, OR MONDAY THEN UNTIL 8:00 P.M. THE FOLLOWING TUESDAY.
- FOR EASTER, BETWEEN THE HOURS OF 5:30 A.M. THURSDAY AND 8:00 P.M. MONDAY.
- FOR MEMORIAL DAY, BETWEEN THE HOURS OF 5:30 A.M. FRIDAY TO 8:00 P.M. TUESDAY.
- FOR INDEPENDENCE DAY, BETWEEN THE HOURS OF 5:30 A.M. THE DAY BEFORE INDEPENDENCE DAY AND 8:00 P.M. THE DAY AFTER INDEPENDENCE DAY.

IF INDEPENDENCE DAY IS ON A FRIDAY, SATURDAY, SUNDAY OR MONDAY THEN BETWEEN THE HOURS OF 5:30 A.M. THE THURSDAY BEFORE INDEPENDENCE DAY AND 8:00 P.M. THE TUESDAY AFTER INDEPENDENCE DAY.
- FOR LABOR DAY, BETWEEN THE HOURS OF 5:30 A.M. FRIDAY AND 8:00 P.M. TUESDAY.
- FOR THANKSGIVING DAY, BETWEEN THE HOURS OF 5:30 A.M. TUESDAY TO 8:00 P.M. MONDAY.
- FOR CHRISTMAS, BETWEEN THE HOURS OF 5:30 A.M. THE FRIDAY BEFORE THE WEEK OF CHRISTMAS DAY AND 8:00 P.M. THE FOLLOWING TUESDAY AFTER THE WEEK OF CHRISTMAS.
- FOR PRESIDENTS DAY, BETWEEN THE HOURS OF 5:30 A.M. FRIDAY TO 8:00 P.M. TUESDAY.
- FOR VETERAN'S DAY PARADE BETWEEN THE HOURS OF 5:30 A.M. TO 8:00 P.M. THE SATURDAY BEFORE VETERAN'S DAY.
- FOR CHRISTMAS PARADE BETWEEN THE HOURS OF 5:30 A.M. TO 8:00 P.M. THE SATURDAY BEFORE THANKSGIVING DAY.

C) DO NOT CONDUCT ANY CONSTRUCTION OPERATIONS BETWEEN AUGUST 15TH THROUGH JUNE 15TH AS FOLLOWS:

ROAD NAME	DAY AND TIME RESTRICTIONS
-Y2- ELLIS BLVD CONN. (-Y2- 25+00 TO -Y2- 32+50)	MONDAY THRU FRIDAY 8:00 A.M. TO 4:00 P.M.
-Y5- BELL FORK ROAD (-Y5- 11+70 TO -Y5- 26+65)	MONDAY THRU FRIDAY 8:00 A.M. TO 4:00 P.M.
-DR1- DRIVEWAY (-DR1- 10+00 TO -DR1- 18+00)	MONDAY THRU SUNDAY NO WORK ANY TIME

D) DO NOT CLOSE ROADS AS FOLLOWS DURING OVERHEAD WORK OPERATIONS SUCH AS GIRDER ERECTION, OVERHEAD SIGN ERECTION AND REMOVAL, AND TRAFFIC SIGNAL WORK:

ROAD NAME	DAY AND TIME RESTRICTIONS	DURATION AND OPERATION
NC 24	MONDAY THRU SUNDAY 5:30 A.M. TO 11:00 P.M.	30 MINS
BELL FORK ROAD	MONDAY THRU SUNDAY 5:30 A.M. TO 7:00 P.M.	30 MINS

E) DO NOT CONDUCT SINGLE OR MULTI-VEHICLE HAULING AS FOLLOWS:

ROAD NAME	DAY AND TIME RESTRICTIONS
NC 24	MONDAY THROUGH FRIDAY 5:30 A.M. TO 8:30 A.M. MONDAY THROUGH FRIDAY 4:00 P.M. TO 8:00 P.M.
BELL FORK RD	MONDAY THROUGH FRIDAY 5:30 A.M. TO 8:30 A.M. MONDAY THROUGH FRIDAY 4:00 P.M. TO 7:00 P.M.


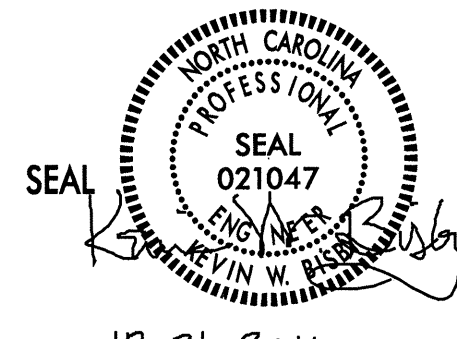
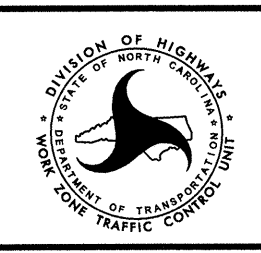
F) DO NOT CONDUCT ANY HAULING OPERATIONS AGAINST THE FLOW OF TRAFFIC OF AN OPEN TRAVELWAY UNLESS THE HAULING OPERATION IS PROTECTED BY BARRIER OR GUARDRAIL OR AS DIRECTED BY THE ENGINEER.

LANE AND SHOULDER CLOSURE REQUIREMENTS

- G) REMOVE LANES 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.
- H) 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.
- I) 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.
- J) 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.
- K) 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.
- L) DO NOT INSTALL MORE THAN 1 MILE OF LANE CLOSURE ON NC 24 MEASURED FROM THE BEGINNING OF THE MERGE TAPER TO THE END OF THE LANE CLOSURE.
- M) DO NOT INSTALL MORE THAN ONE LANE CLOSURE, IN ANY ONE DIRECTION, ON NC 24.
- N) PROVIDE TRAFFIC CONTROL FOR APPROPRIATE LANE CLOSURES FOR SURVEYING DONE BY THE DEPARTMENT.

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PLANS PREPARED BY :  RUMMEL, KLEPPER & KAHL, LLP 900 RIDGEFIELD DRIVE SUITE 350 RALEIGH, NORTH CAROLINA 27609-3960 NC LICENSE NO. F-0112 (919) 878-9560 FOR THE DIVISION OF HIGHWAYS		 SEAL 12.21.2011	GENERAL NOTES
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GENERAL NOTES, CONTINUED

PROJ. REFERENCE NO. U-5132	SHEET NO. TCP-3
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PAVEMENT EDGE DROP OFF REQUIREMENTS

O) 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.

P) 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

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

SIGNING

R) 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.

S) PROVIDE PERMANENT SIGNING.

T) PROVIDE DETOUR SIGNING OFF THE PROJECT LIMITS.

U) COVER OR REMOVE ALL DETOUR SIGNS OFF THE PROJECT LIMITS WHEN A DETOUR IS NOT IN OPERATION.

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

W) INSTALL BLACK ON ORANGE "DIP" SIGNS (W8-2) AND/OR "BUMP" SIGNS (W8-1) 500 FT IN ADVANCE OF THE UNEVEN AREA, OR AS DIRECTED BY THE ENGINEER.

TRAFFIC BARRIER

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

DO NOT PLACE BARRIER DIRECTLY ON ANY SURFACE OTHER THAN ASPHALT OR CONCRETE.

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

INSTALL TEMPORARY BARRIER WITH THE TRAFFIC FLOW, BEGINNING WITH THE UPSTREAM SIDE OF TRAFFIC. REMOVE TEMPORARY BARRIER AGAINST THE TRAFFIC FLOW, BEGINNING WITH THE DOWNSTREAM SIDE OF TRAFFIC.

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

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

PROTECT THE APPROACH END OF MOVABLE/PORTABLE CONCRETE BARRIER FROM ONCOMING TRAFFIC AT ALL TIMES BY A TEMPORARY CRASH CUSHION UNLESS THE APPROACH END OF MOVABLE/PORTABLE CONCRETE BARRIER IS OFFSET FROM ONCOMING TRAFFIC AS FOLLOWS OR AS SHOWN IN THE PLANS:

POSTED SPEED LIMIT	MINIMUM OFFSET
40 OR LESS	15 FT
45 - 50	20 FT
55	25 FT
60 MPH or HIGHER	30 FT

TRAFFIC CONTROL DEVICES

Z) 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.

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

BB) 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

CC) INSTALL FINAL PAVEMENT MARKINGS AND MARKERS ON THE FINAL SURFACE AS SHOWN IN THE PAVEMENT MARKING PLAN.

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

<u>ROAD NAME</u>	<u>MARKING</u>	<u>MARKER</u>
ALL ROADS	PAINT	TEMP RAISED

EE) 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.

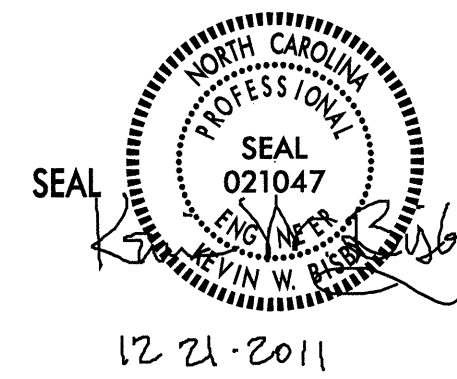
FF) TIE PROPOSED PAVEMENT MARKING LINES TO EXISTING PAVEMENT MARKING LINES.

GG) REMOVE/REPLACE ANY CONFLICTING/DAMAGED PAVEMENT MARKINGS AND MARKERS BY THE END OF EACH DAY'S OPERATION.

HH) TRACE THE PROPOSED MONOLITHIC ISLAND LOCATIONS WITH PROPER COLOR PAVEMENT MARKINGS PRIOR TO INSTALLATION. PLACE DRUMS TO DELINEATE ANY PROPOSED MONOLITHIC ISLANDS BEFORE INSTALLATION.

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

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<p>PLANS PREPARED BY :</p> <p style="font-size: 2em; font-weight: bold; text-align: center;">RK K</p> <p style="font-size: 0.8em;">RUMMEL, KLEPPER & KAHL, LLP 900 RIDGEFIELD DRIVE SUITE 350 RALEIGH, NORTH CAROLINA 27609-3960 NC LICENSE NO. F-0112 (919) 878-9560</p> <p style="text-align: center;">FOR</p> <p style="text-align: center;">THE DIVISION OF HIGHWAYS</p>		<p style="font-size: 1.5em; font-weight: bold;">GENERAL NOTES</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 80%;">SCALE: NONE</td> <td style="width: 20%; text-align: center;">REVISIONS</td> </tr> <tr> <td>DATE: 12/2011</td> <td></td> </tr> <tr> <td>DESIGN BY: NH</td> <td></td> </tr> <tr> <td>DESIGN BY: MAC</td> <td></td> </tr> <tr> <td>REVIEWED BY: KWB</td> <td></td> </tr> </table>	SCALE: NONE	REVISIONS	DATE: 12/2011		DESIGN BY: NH		DESIGN BY: MAC		REVIEWED BY: KWB	
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PHASE I

STEP 1: ERECT ADVANCED WORK ZONE WARNING SIGNS IN ACCORDANCE WITH RDWY STD 1101.01.

NOTE: PHASE I, STEPS 2 THRU 4 MAY BE PERFORMED CONCURRENTLY

STEP 2: BEGIN BRIDGE CONSTRUCTION OVER NC 24 AS FOLLOWS:

- A) USING RDWY STD 1101.02 REMOVE EXISTING PAVEMENT MARKINGS AND REPLACE WITH TEMPORARY PAVEMENT MARKINGS SHIFTING -L- NC 24 EASTBOUND AND WESTBOUND TRAFFIC 3' TOWARDS THE OUTSIDE SHOULDER FROM -L- STA. 29+08 TO -L- STA. 33+07. (SEE TCP-8)
- B) USING RDWY STD 1101.02 PLACE PCB AND TCC ALONG THE SHOULDERS OF NC 24 FROM -L- STA. 29+08 TO -L- STA. 35+00. (SEE TCP-8)
- C) USING RDWY STD 1101.02 INSTALL TEMPORARY SHORING IN MEDIAN OF NC 24 FROM -L- STA. 31+00 TO -L- STA. 32+06. (SEE TCP-8)
- D) BEHIND PCB, BEGIN BRIDGE CONSTRUCTION, (SEE STRUCTURE PLANS)
- E) USE LAW ENFORCEMENT AND RDWY STD 1101.03 DURING NIGHT TIME GIRDER ERECTION OVER NC 24.

INTERMEDIATE CONTRACT TIME:

DO NOT CONDUCT ANY CONSTRUCTION OPERATIONS BETWEEN AUGUST 15TH THROUGH JUNE 15TH AS FOLLOWS:

ROAD NAME	DAY AND TIME RESTRICTIONS
-Y2- ELLIS BLVD CONN. (-Y2- 25+00 TO -Y2- 32+50)	MONDAY THRU FRIDAY 8:00 A.M. TO 4:00 P.M.
-Y5- BELL FORK ROAD (-Y5- 11+70 TO -Y5- 26+65)	MONDAY THRU FRIDAY 8:00 A.M. TO 4:00 P.M.
-DR1- DRIVEWAY (-DR1- 10+00 TO -DR1- 18+00)	MONDAY THRU SUNDAY NO WORK ANY TIME

STEP 3: USING RDWY STD 1101.02 CONSTRUCT UP TO THE EDGE AND ELEVATION OF THE EXISTING PAVEMENT, SIGNAL POLES AND PROPOSED SIGN FOUNDATIONS AS FOLLOWS:

- Y2- (JAY CIRCLE) RIGHT SIDE WIDENING FROM -Y2- STA 11+65 TO -Y3- STA 23+62 (ELLIS BLVD). (SEE TCP-10)
- Y2- (WHITE ST CONNECTOR) FROM -Y2- STA 13+90 TO -Y2- STA 32+50 EXCLUDING THE FINAL LAYER OF SURFACE COURSE. CONSTRUCT UP TO THE EDGE AND ELEVATION OF THE EXISTING PAVEMENT WHEN WITHIN 50' OF -Y3- AND -Y5-. (SEE TCP-10 AND TCP-11)
- Y2- (WHITE ST) FROM -Y2- STA 32+90 TO -Y2- STA 38+00 CONSTRUCT UP TO THE EDGE AND ELEVATION OF THE EXISTING PAVEMENT WHEN WITHIN 50' OF -Y5- AND EXISTING WHITE ST. (SEE TCP-11 AND TCP-12)
- Y5- (BELL FORK RD) LEFT SIDE WIDENING FROM -Y5- STA 11+70 TO -Y5- STA 26+65. (SEE TCP-11 AND TCP-13)
- DR1- FROM -DR1- STA. 10+00 TO -DR1- STA. 17+00. (SEE TCP-11)
- DR2- FROM -DR2- STA. 10+00 TO -DR2- STA. 12+20. (SEE TCP-11)

STEP 4: USING RDWY STD 1101.02 CONSTRUCT UP TO THE EDGE AND ELEVATION OF THE EXISTING PAVEMENT, SIGNAL POLES AND PROPOSED SIGN FOUNDATIONS AS FOLLOWS:

- PROPOSED LEFT TURN LANE ON LEJEUNE BLVD FROM -WBRP- STA 15+70 TO STA 21+50. REVISE THE EXISTING SIGNAL IN ACCORDANCE WITH THE SIGNAL PLANS. (SEE TCP-6)
- SR 2341 (SERVICE RD) WIDENING FROM -Y6- STA 10+54 TO STA 12+46. (SEE TCP-6)
- NC 24 WESTBOUND RIGHT SIDE WIDENING FROM -L WB- STA 13+38 TO STA 25+27. (SEE TCP-7)
- NC 24 WESTBOUND LEFT SIDE WIDENING FROM -Y4- TO STA 45+25. (SEE TCP-9)
- SR 1300 (BELL FORK RD) WIDENING FROM NC 24 TO -Y4- STA 16+80. (SEE TCP-9)
- USING RDWY STD 1101.02 BEGIN CONSTRUCTION OF -Y1- (WILSON BLVD) FROM -Y1- STA 10+00 TO STA 21+00 EXCLUDING THE FINAL LAYER OF SURFACE COURSE. BEGIN CONSTRUCTION OF THE PROPOSED END BENTS AND INTERIOR BENT UPON COMPLETION OF THE NC 24 TRAFFIC SHIFT. (SEE TCP-8)

STEP 5: USING RDWY STD 1101.02 PLACE PAVEMENT MARKINGS ON THE PROPOSED LEFT TURN LANE (LEJEUNE BLVD -WBRP-), ACTIVATE THE PROPOSED SIGNAL, AND OPEN THE TURN LANE TO TRAFFIC. (SEE TCP-14)

PHASE II

STEP 1: USING RDWY STD 1101.02 WEDGE EXCLUDING THE FINAL LAYER OF SURFACE COURSE AND PLACE PAVEMENT MARKINGS AS FOLLOWS: (SEE TCP-15, TCP-16, TCP-18 AND TCP-19)

- ELLIS BLVD. CONNECTOR, -Y2- STA 11+65 TO -Y2- STA 14+43,
- ELLIS BLVD., -Y3- STA 23+62 TO -Y3- STA 24+88,
- BELL FORK RD., -Y5- STA 11+70 TO -Y5- STA 26+65,
- BELL FORK RD., -Y4- STA 10+80 TO -Y4- STA 16+80, REPLACE PAVEMENT MARKINGS IN EXISTING LOCATION,
- WHITE ST., -Y2- STA 31+93 TO -Y2- STA 33+68,
- CONSTRUCT THE PROPOSED SIGNAL AT THE INTERSECTION OF -Y2- (WHITE ST) AND -Y5- (BELL FORK RD).

NOTE: PHASE II, STEP 2 SHALL BE COMPLETED IN A CONTINUOUS OPERATION.

STEP 2: USING RDWY STD 1101.02 (ALTERNATING LANE CLOSURES) TIE IN -Y2- TO EXISTING WHITE STREET EXCLUDING THE FINAL LAYER OF SURFACE COURSE FROM -Y2- STA 35+99 TO STA -Y2- 39+47. PLACE PAVEMENT MARKINGS, ACTIVATE THE PROPOSED SIGNAL, AND OPEN -Y2- TO TRAFFIC. (SEE TCP-16 AND TCP-17)

STEP 3: CLOSE -Y6- (NC 24 SERVICE RD) AND -Y3- (ELLIS BLVD). (SEE TCP-21, TCP-30, TCP-30A, TCP-31 AND TCP-31A).

STEP 4: CONSTRUCT -Y1- (WILSON BLVD) STRUCTURE USING RDWY STD 1101.03 SHEET 9. (SEE TCP-21 AND TCP-21A)

- COMPLETE CONSTRUCTION OF -Y1- AS BEGUN IN PHASE I.
- CONSTRUCT EXCLUDING THE FINAL LAYER OF SURFACE COURSE AND PLACE TEMPORARY PAVEMENT MARKINGS ON -Y3- AND -Y3SR- AS FOLLOWS: (SEE TCP-21 AND TCP-21A)
 - LOOP B FROM -LPB- STA 10+00 TO -LPB- STA 16+74,
 - RAMP B FROM -RPB- STA 10+00 TO -RPB- STA 18+34,
 - NC 24 SERVICE RD FROM -Y3SR- STA 10+57 TO -Y3SR- STA 23+26,
 - ELLIS BLVD. FROM -Y3- STA 10+00 TO -Y3- STA 11+00.
- USING RDWY STD 1101.02 CONSTRUCT UP TO THE EDGE AND ELEVATION OF EXISTING PAVEMENT AS FOLLOWS: (SEE TCP-20, TCP-21 AND TCP-22)
 - NC 24 WB FROM -WBRP- STA 10+00 TO -WBRP- STA 21+66 (MEDIAN WIDENING),
 - NC 24 WESTBOUND FROM -L WB- STA 15+93 TO -L WB- STA 24+84 (MEDIAN WIDENING),
 - NC 24 FROM -L- STA 11+59 TO -L- STA 40+35 (LT SIDE WIDENING),
 - NC 24 FROM -L- STA 18+00 TO -L- STA 47+20 (MEDIAN WIDENING).
- USING RDWY STD 1101.02 CONSTRUCT LEFT SIDE CURB AND GUTTER ON JAY CIRCLE FROM -Y2- STA 11+65 TO -Y2- STA 13+50, (SEE TCP-23)
- USING RDWY STD 1101.02 CONSTRUCT REMAINING CURB AND GUTTER ON BELL FORK RD AND THE DRIVEWAY TO BELL FORK ELEMENTARY SCHOOL, (SEE TCP-24)
- USING RDWY STD 1101.02 REMOVE EXISTING PAVEMENT AS REQUIRED ON WHITE STREET, (SEE TCP-24 AND TCP-25)
- USING RDWY STD 1101.02 AND 1101.03 INSTALL PROPOSED SIGN STRUCTURES, (SEE SIGNING PLANS)

PHASE III

STEP 1:


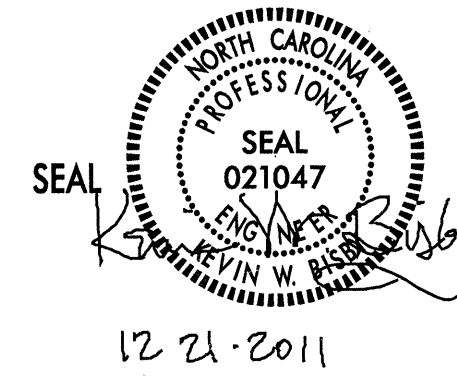
A. USING RDWY STD 1101.02 (ALTERNATING LANE CLOSURES) WEDGE EXISTING NC 24 EXCLUDING THE FINAL LAYER OF SURFACE COURSE AS FOLLOWS: (SEE TCP-27, TCP-28 AND TCP-29)

- L WB- STA 13+38 TO STA 32+86
- L- STA 16+00 TO STA 47+20 (WESTBOUND)
- WBRP- STA 10+00 TO STA 22+90
- L- STA 22+00 TO STA 51+27 (EASTBOUND)

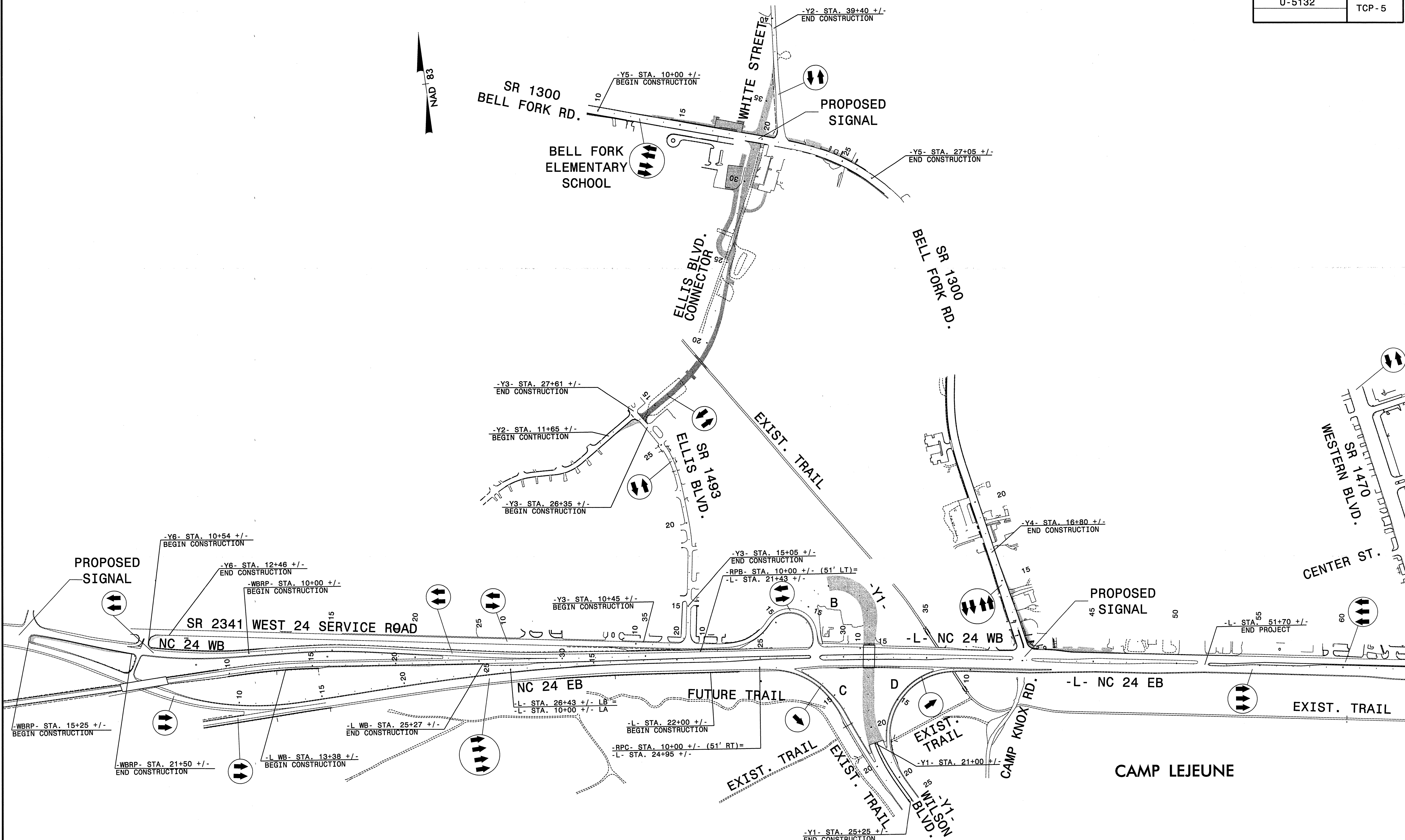
B. PLACE PAVEMENT MARKINGS AS SHOWN. (SEE TCP-27, TCP-28 AND TCP-29)

STEP 2: USING RDWY STD 1101.02 CONSTRUCT MONOLITHIC ISLANDS ON -L-, -Y2-, -Y3-, -Y4-, AND -Y5-, (SEE TCP-28 AND TCP-29).

STEP 3: USING RDWY STD 1101.02 (ALTERNATING LANE CLOSURES) PLACE THE FINAL LAYER OF SURFACE COURSE AND FINAL PAVEMENT MARKINGS ON THE ENTIRE PROJECT, AND OPEN ALL ROADS TO TRAFFIC IN THE FINAL PATTERN.

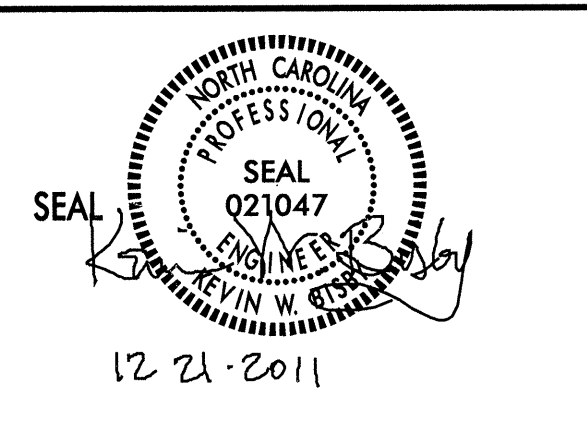
PLANS PREPARED BY :  RUMMEL, KLEPPER & KAHL, LLP 900 RIDGEFIELD DRIVE SUITE 350 RALEIGH, NORTH CAROLINA 27609-3960 NC LICENSE NO. F-0112 (919) 878-9560 FOR THE DIVISION OF HIGHWAYS	 SEAL 021047 12-21-2011	TRAFFIC CONTROL PHASING							
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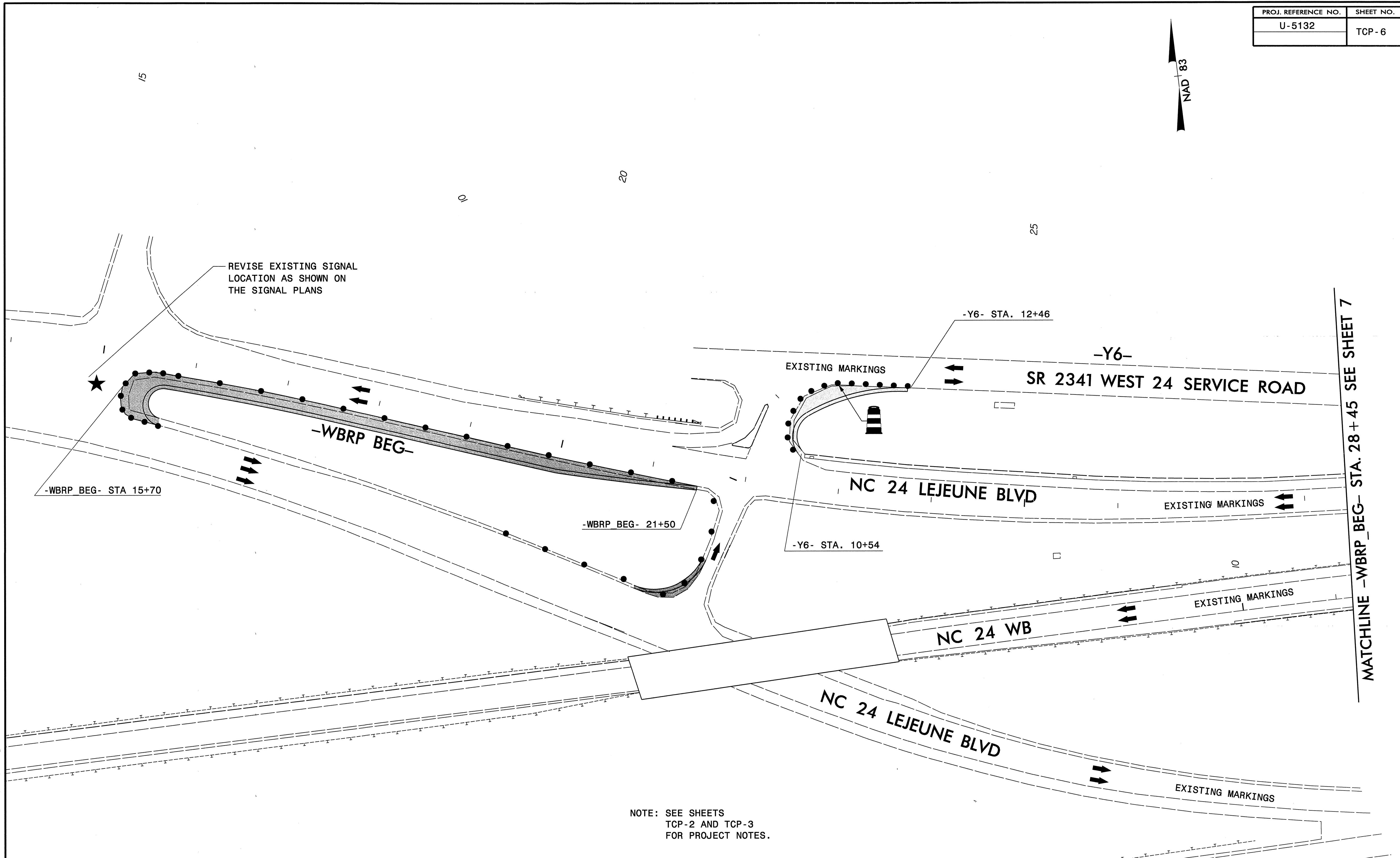
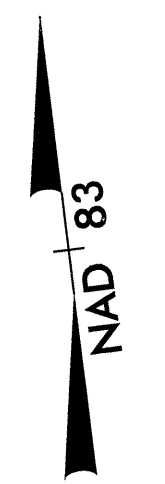


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NO.	DESCRIPTION								



REVISIONS

REVISIONS

-WBRP BEG- STA 15+70

-WBRP BEG-

-WBRP BEG- 21+50

-Y6- STA. 10+54

-Y6- STA. 12+46

-Y6-

SR 2341 WEST 24 SERVICE ROAD

NC 24 LEJEUNE BLVD

EXISTING MARKINGS

NC 24 WB

EXISTING MARKINGS

NC 24 LEJEUNE BLVD

EXISTING MARKINGS

NC 24 EB

MATCHLINE -WBRP_BEG- STA. 28+45 SEE SHEET 7

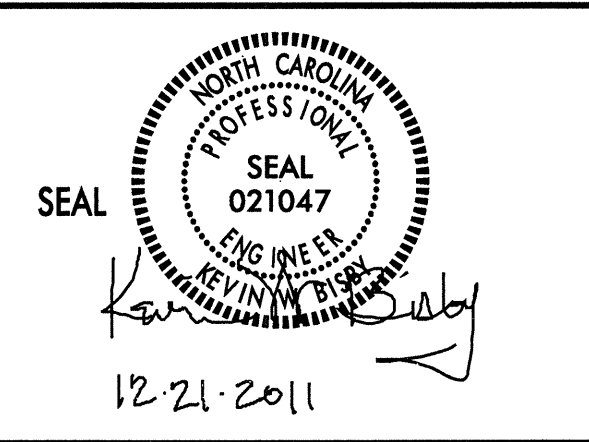
NOTE: SEE SHEETS
TCP-2 AND TCP-3
FOR PROJECT NOTES.

PLANS PREPARED BY :

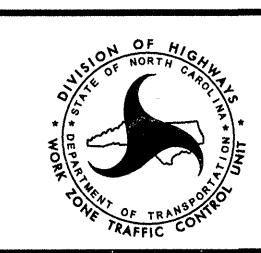
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NC LICENSE NO. F-0112 (919) 878-9560

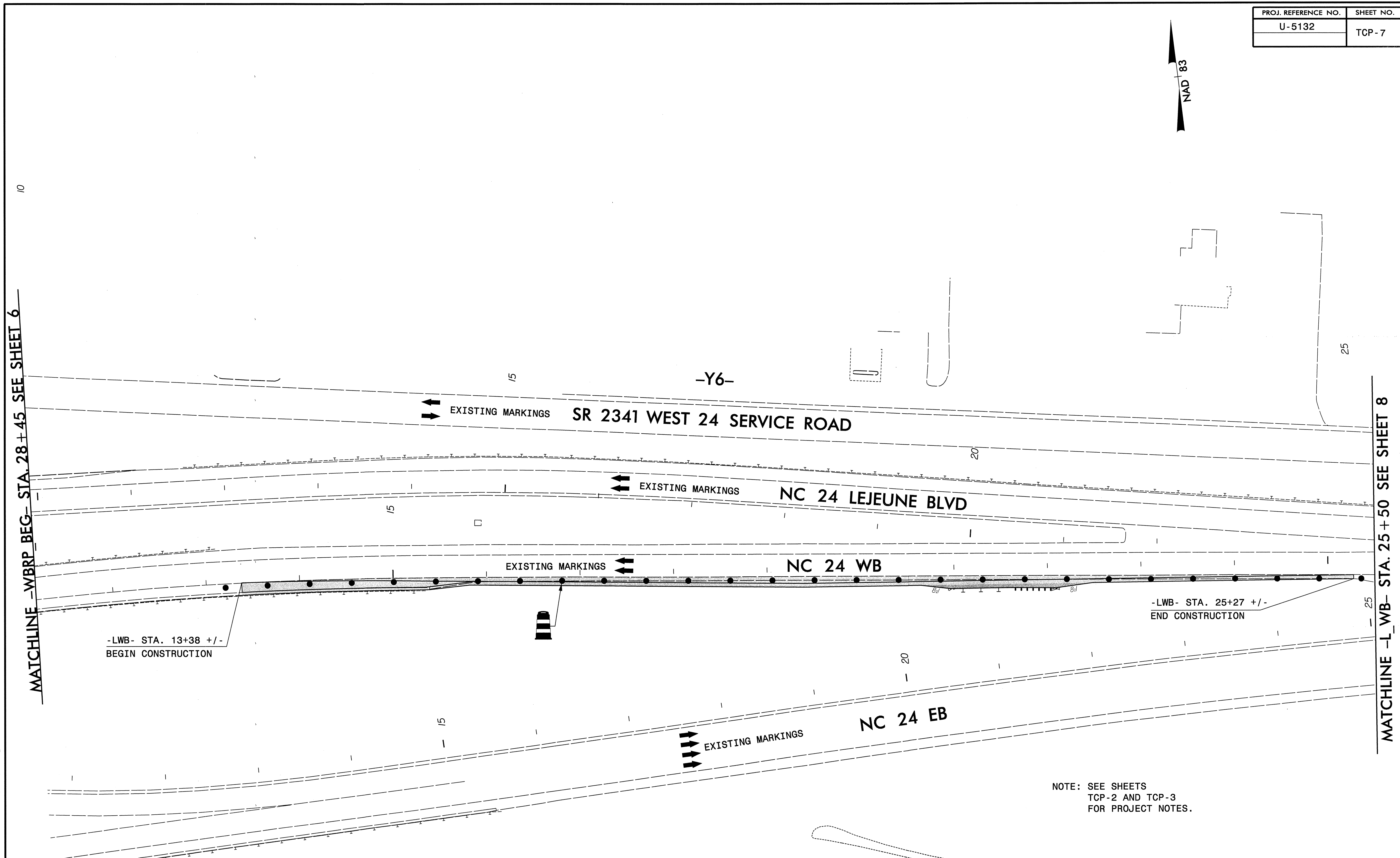
FOR
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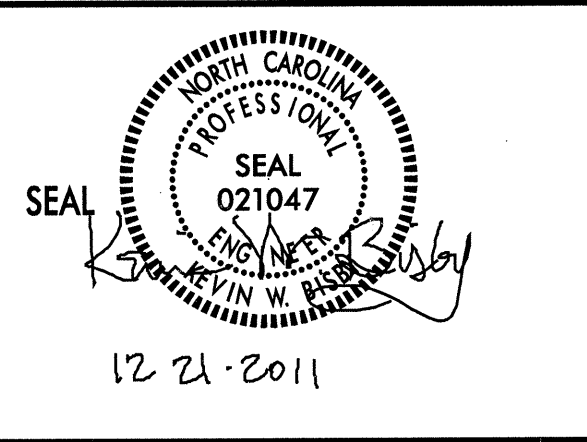
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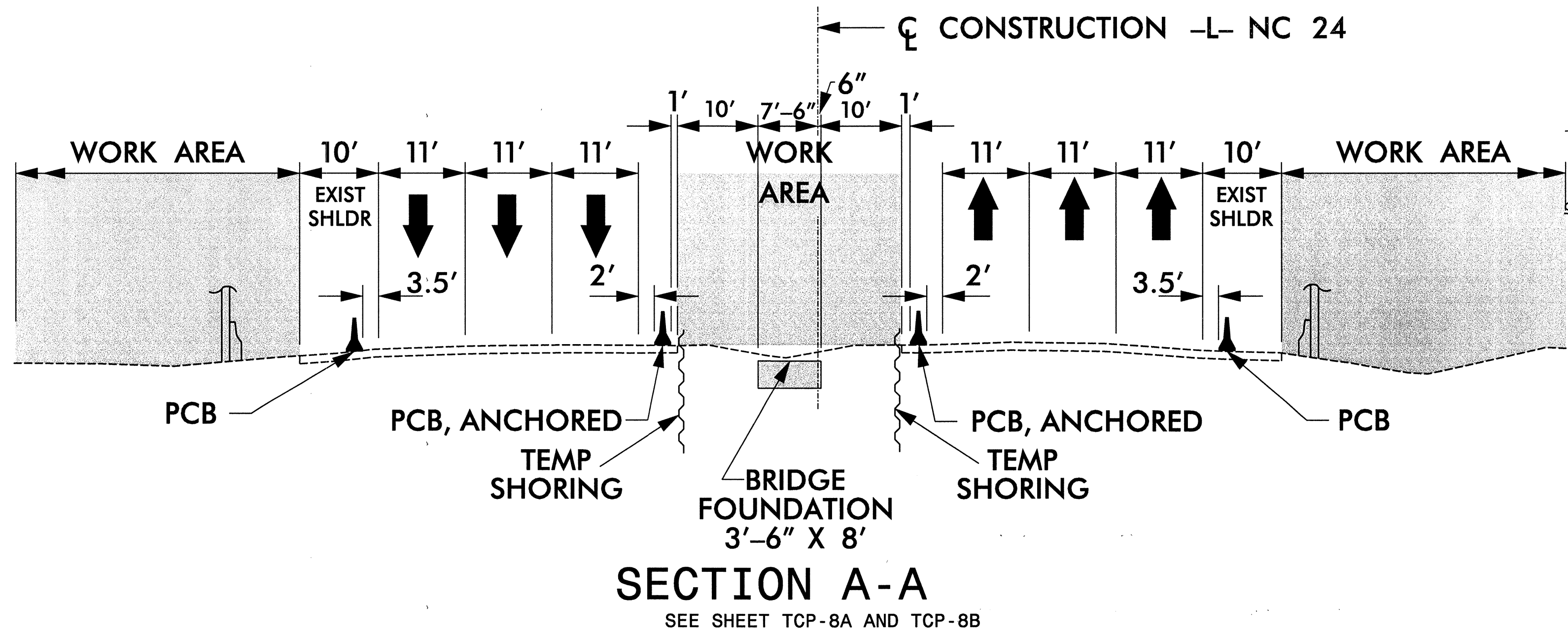
NOTE: SEE SHEETS
TCP-2 AND TCP-3
FOR PROJECT NOTES.

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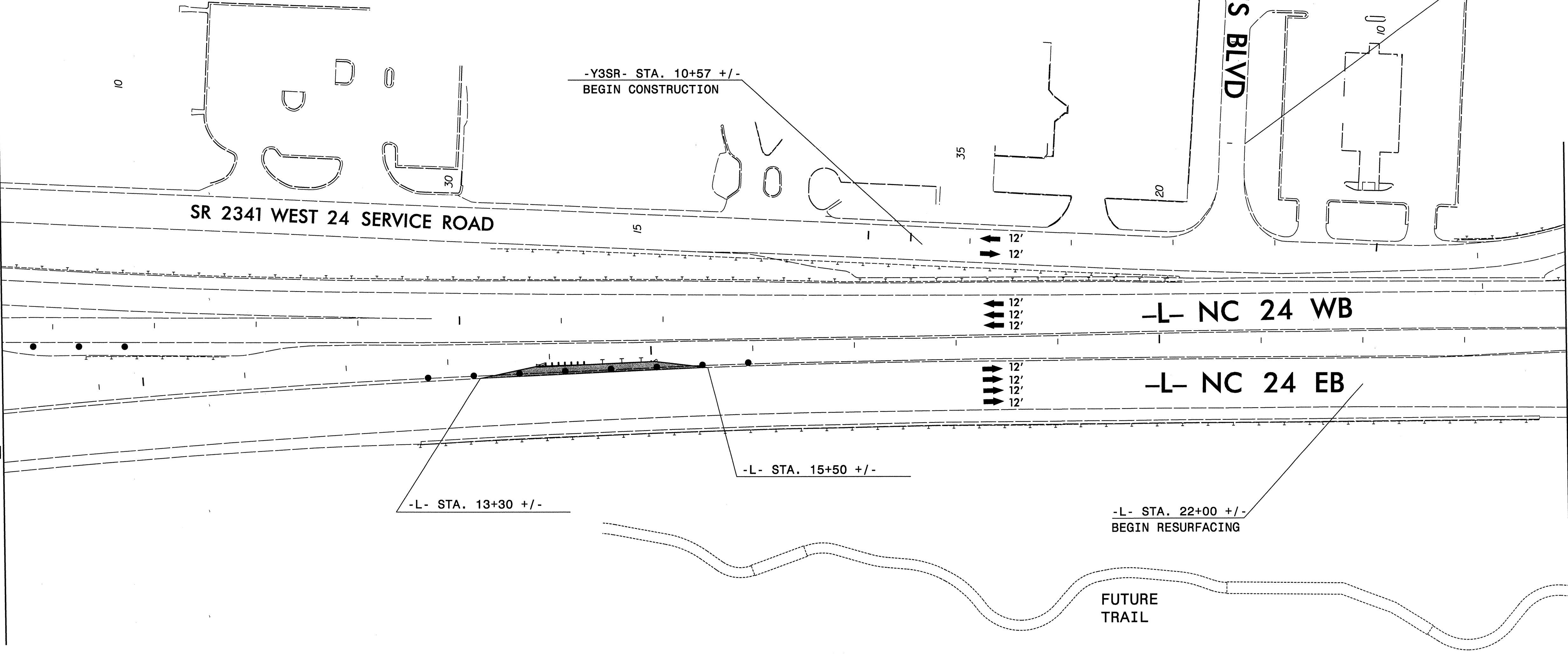
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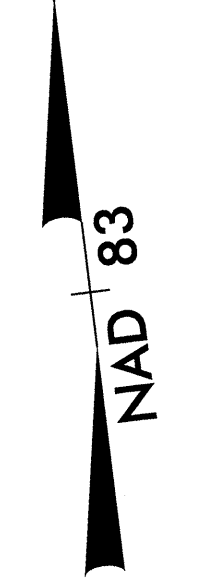
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MATCHLINE -L- WB- STA. 25+50 SEE SHEET 7

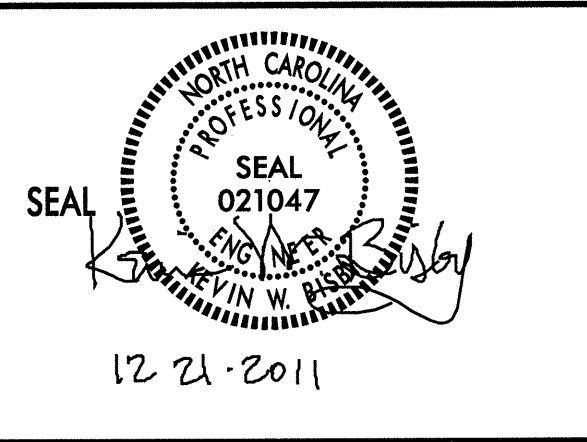


MATCHLINE -L- STA. 24+00 SEE SHEET 8A



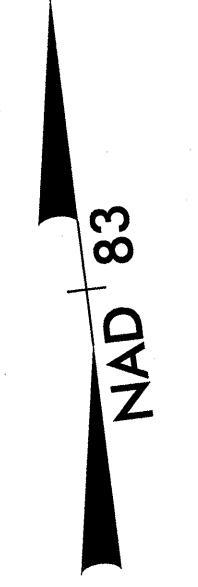
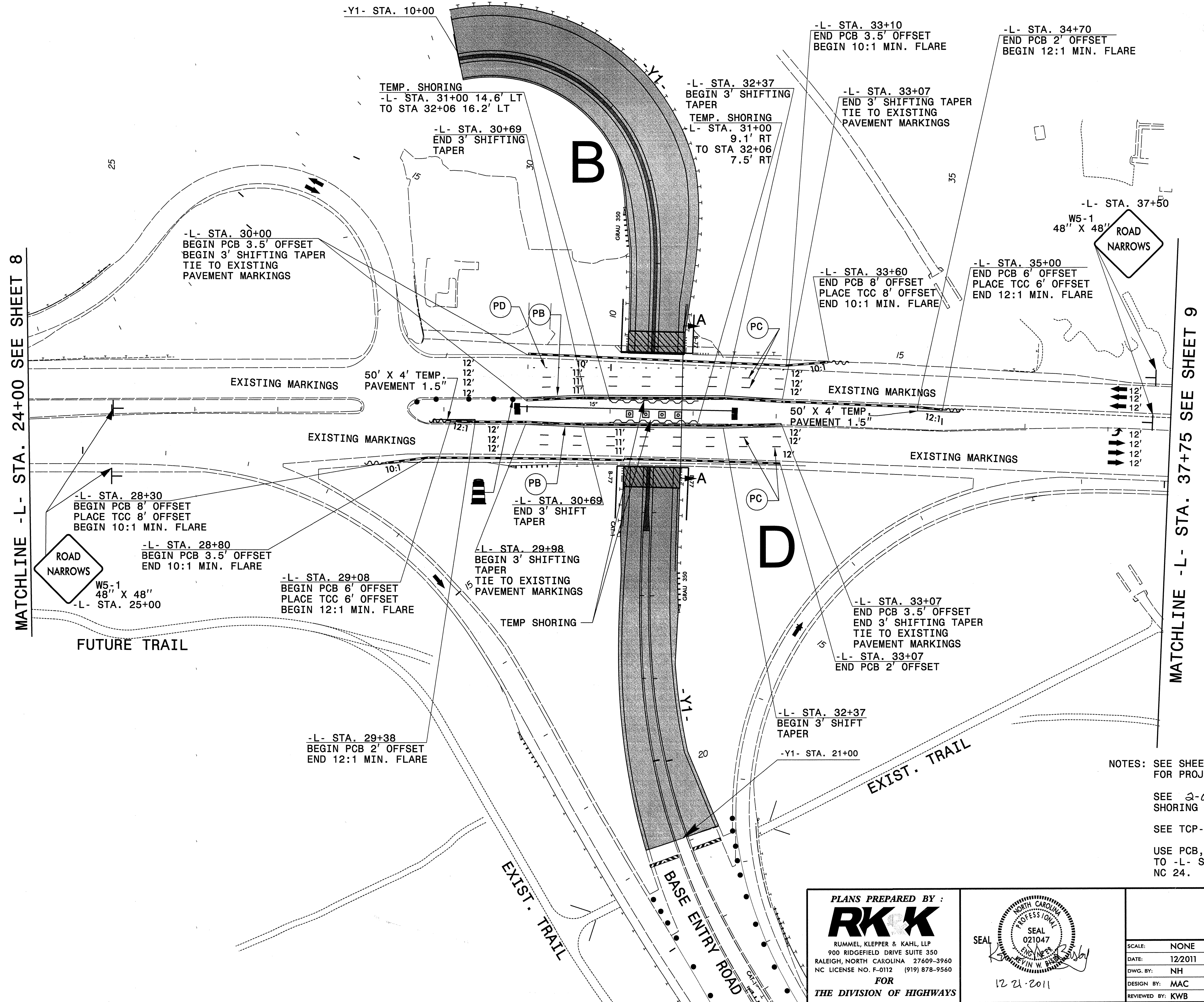
NOTE: SEE SHEETS
TCP-2 AND TCP-3
FOR PROJECT NOTES.

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 KWB



MATCHLINE -L- STA. 24+00 SEE SHEET 8

MATCHLINE -L- STA. 37+75 SEE SHEET 9

NOTES: SEE SHEETS TCP-2 AND TCP-3 FOR PROJECT NOTES.

SEE 3-D FOR STANDARD TEMPORARY SHORING DETAIL.

SEE TCP-8 FOR SECTION VIEW.

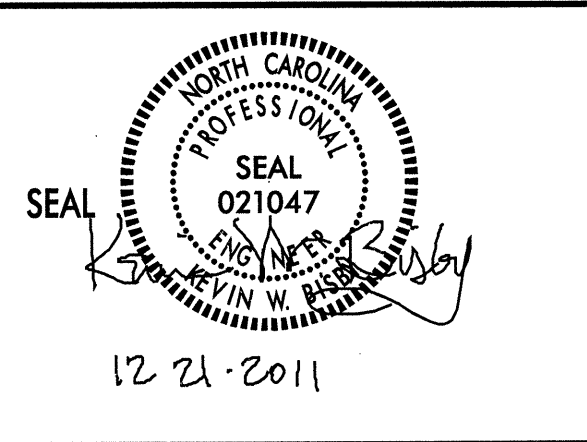
USE PCB, ANCHORED FROM -L- STA. 31+00 TO -L- STA. 32+06 ALONG THE MEDIAN OF NC 24.

PLANS PREPARED BY :

RK K

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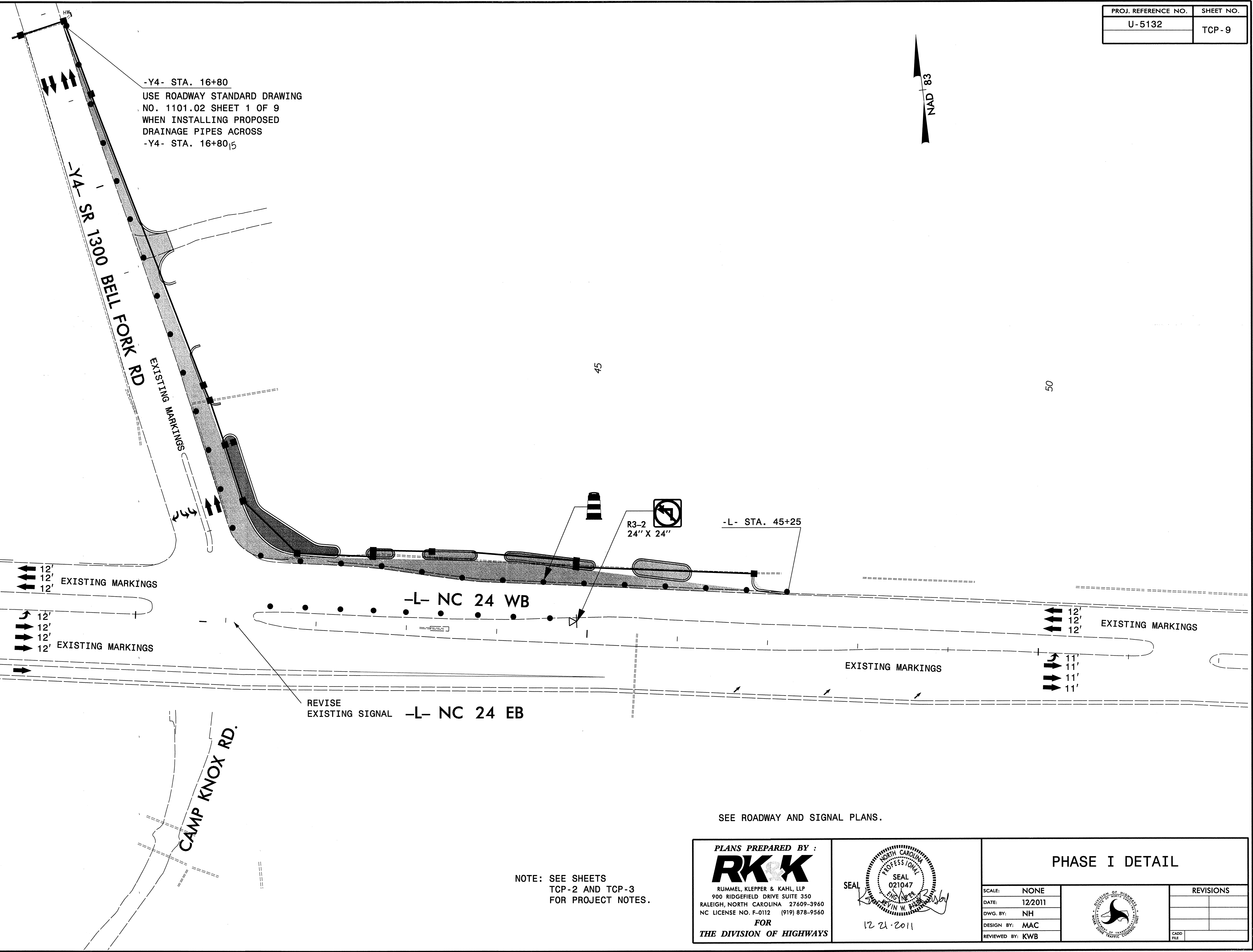
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-Y4- STA. 16+80
 USE ROADWAY STANDARD DRAWING
 NO. 1101.02 SHEET 1 OF 9
 WHEN INSTALLING PROPOSED
 DRAINAGE PIPES ACROSS
 -Y4- STA. 16+80.15

MATCHLINE -L- STA. 37+75 SEE SHEET 8A



REVISE
 EXISTING SIGNAL -L- NC 24 EB

R3-2
 24" X 24"

-L- STA. 45+25

12'
 12'
 12'
 EXISTING MARKINGS

12'
 12'
 12'
 12'
 EXISTING MARKINGS

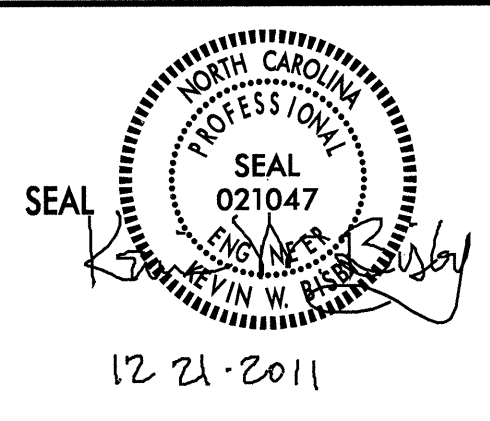
12'
 12'
 12'
 EXISTING MARKINGS

11'
 11'
 11'
 11'

SEE ROADWAY AND SIGNAL PLANS.

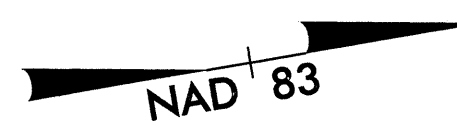
NOTE: SEE SHEETS
 TCP-2 AND TCP-3
 FOR PROJECT NOTES.

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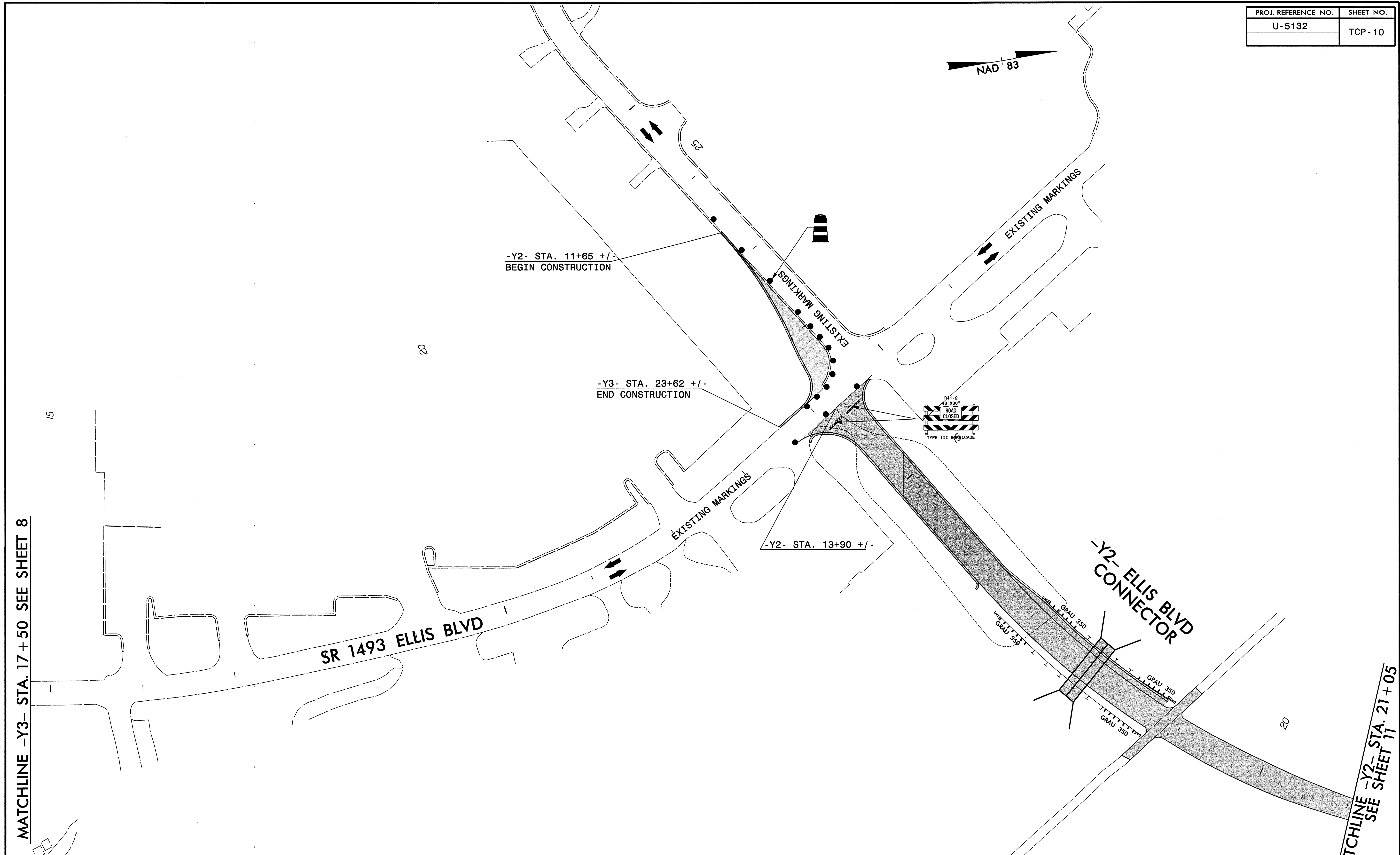
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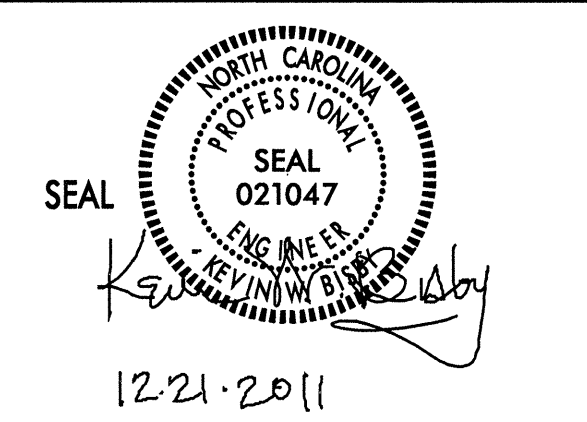
MATCHLINE -Y3- STA. 17+50 SEE SHEET 8

MATCHLINE -Y2- STA. 21+05 SEE SHEET 11



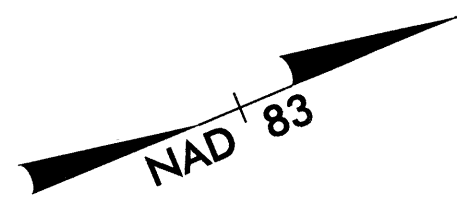
NOTE: SEE SHEETS
TCP-2 AND TCP-3
FOR PROJECT NOTES.

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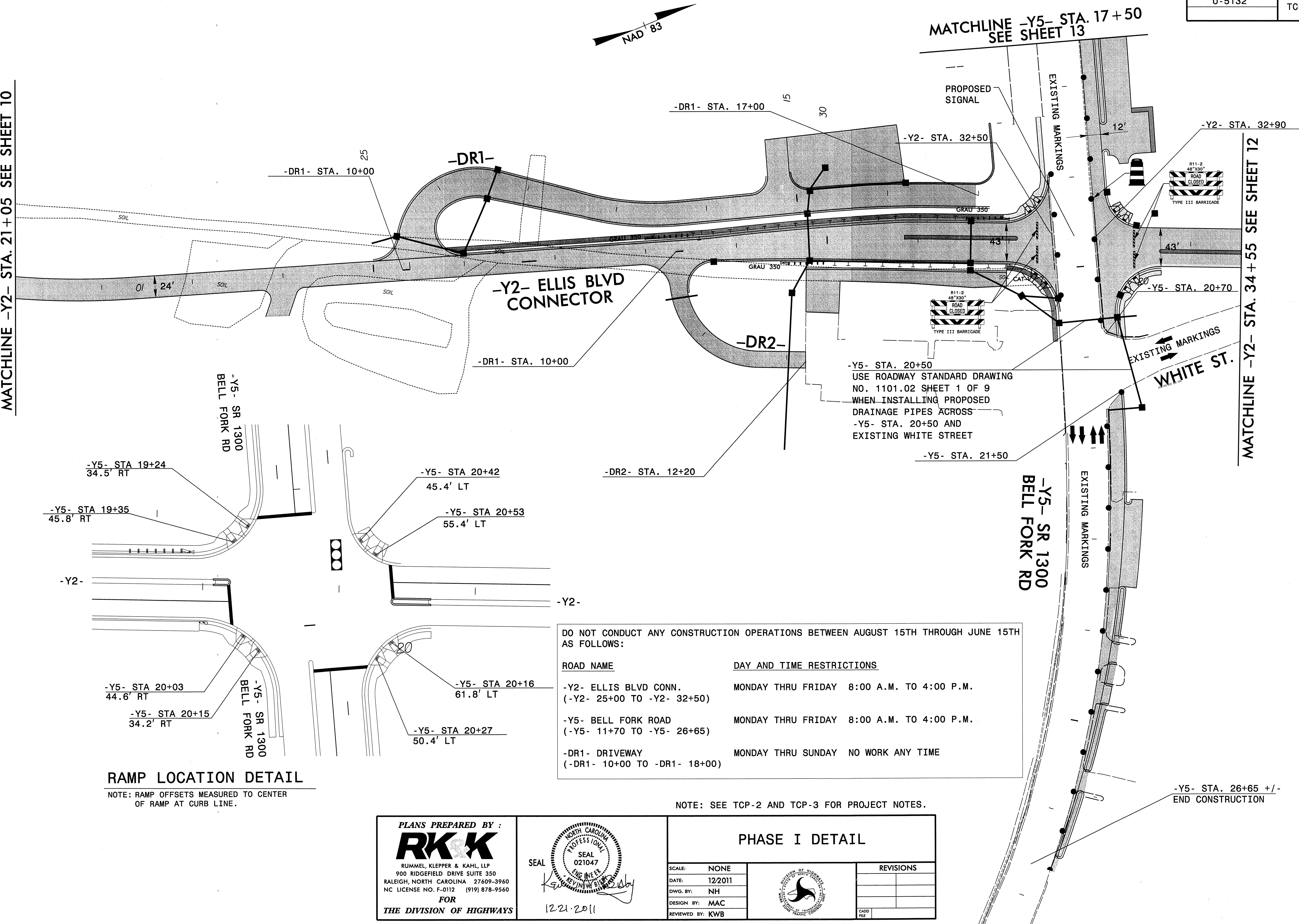
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nicole

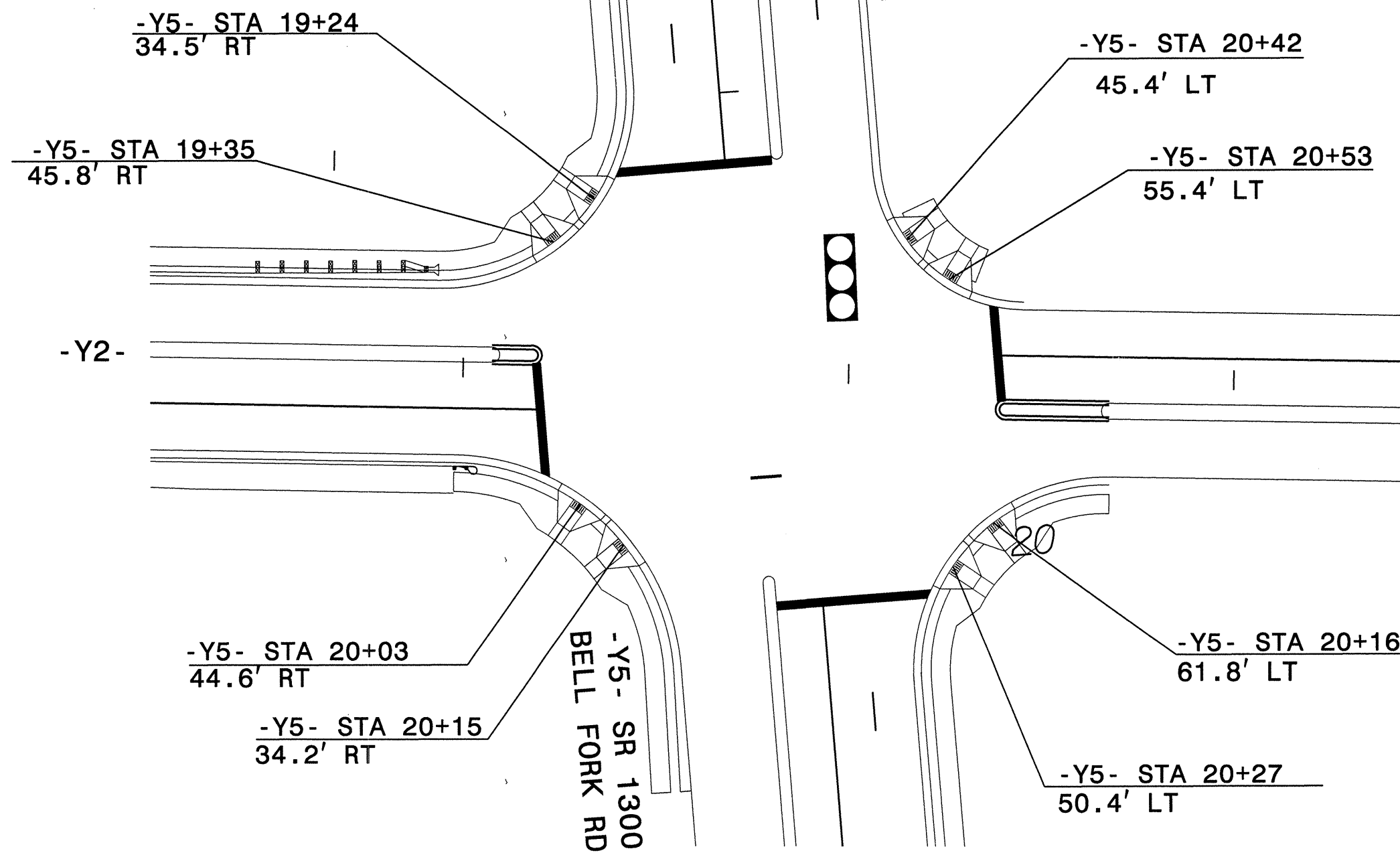


MATCHLINE -Y2- STA. 21+05 SEE SHEET 10

MATCHLINE -Y2- STA. 34+55 SEE SHEET 12



-Y5- STA. 20+50
 USE ROADWAY STANDARD DRAWING
 NO. 1101.02 SHEET 1 OF 9
 WHEN INSTALLING PROPOSED
 DRAINAGE PIPES ACROSS
 -Y5- STA. 20+50 AND
 EXISTING WHITE STREET



RAMP LOCATION DETAIL

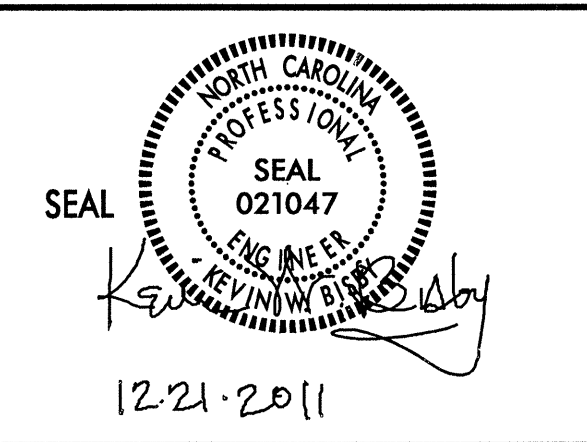
NOTE: RAMP OFFSETS MEASURED TO CENTER OF RAMP AT CURB LINE.

DO NOT CONDUCT ANY CONSTRUCTION OPERATIONS BETWEEN AUGUST 15TH THROUGH JUNE 15TH AS FOLLOWS:

ROAD NAME	DAY AND TIME RESTRICTIONS
-Y2- ELLIS BLVD CONN. (-Y2- 25+00 TO -Y2- 32+50)	MONDAY THRU FRIDAY 8:00 A.M. TO 4:00 P.M.
-Y5- BELL FORK ROAD (-Y5- 11+70 TO -Y5- 26+65)	MONDAY THRU FRIDAY 8:00 A.M. TO 4:00 P.M.
-DR1- DRIVEWAY (-DR1- 10+00 TO -DR1- 18+00)	MONDAY THRU SUNDAY NO WORK ANY TIME

NOTE: SEE TCP-2 AND TCP-3 FOR PROJECT NOTES.

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 FOR
THE DIVISION OF HIGHWAYS



PHASE I DETAIL

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DESIGN BY:	MAC												
REVIEWED BY:	KWB												

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MATCHLINE -Y2- STA. 34+55 SEE SHEET 11

35

-Y2-

43'

-Y2- STA. 38+00 +/-

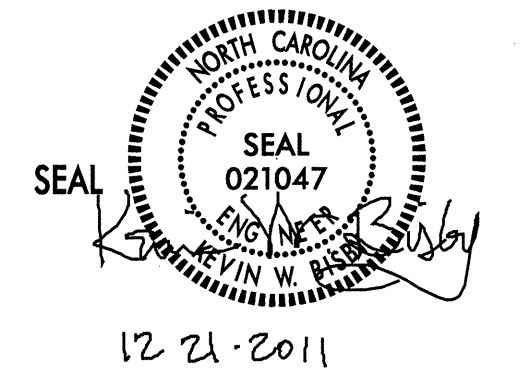
EXISTING MARKINGS

WHITE STREET



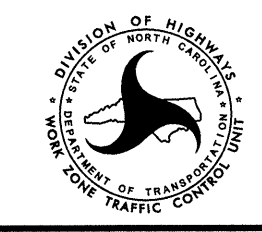
NOTE: SEE TCP-2 AND TCP-3 FOR PROJECT NOTES.

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THE DIVISION OF HIGHWAYS



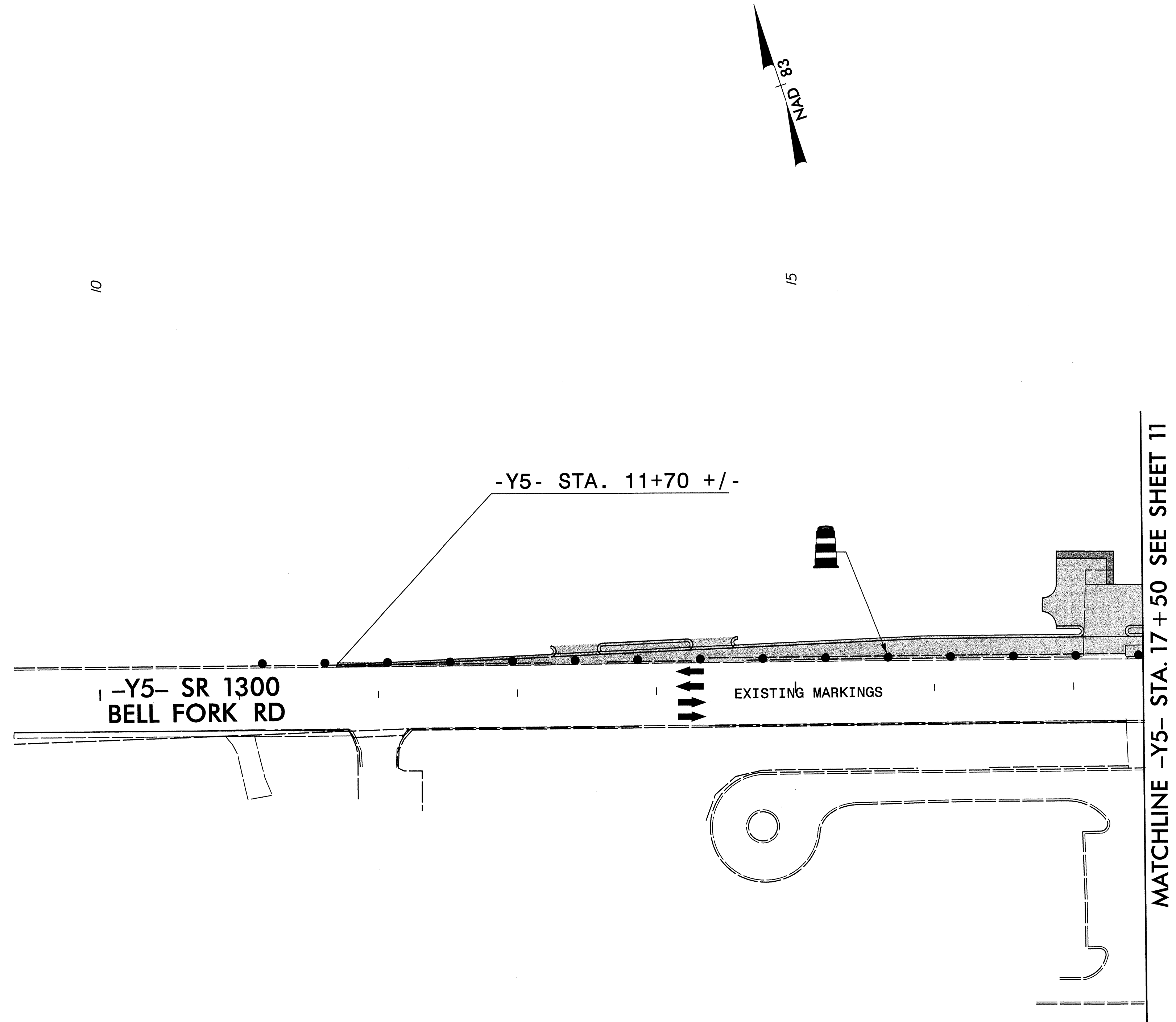
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 DWG. BY: NH
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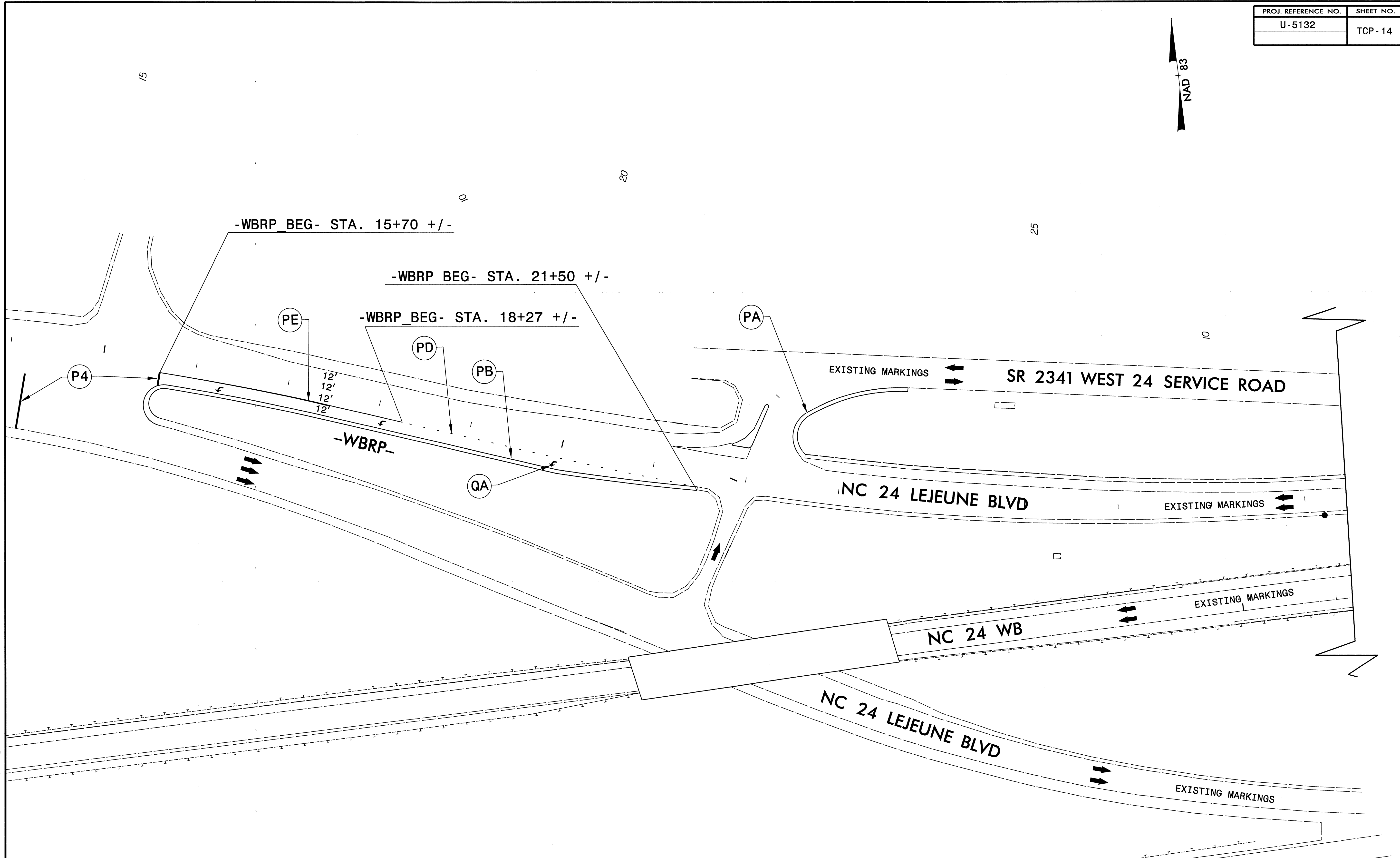
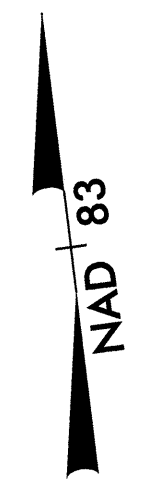
PROJ. REFERENCE NO.	SHEET NO.
U-5132	TCP-13



NOTE: SEE TCP-2 AND TCP-3 FOR PROJECT NOTES.

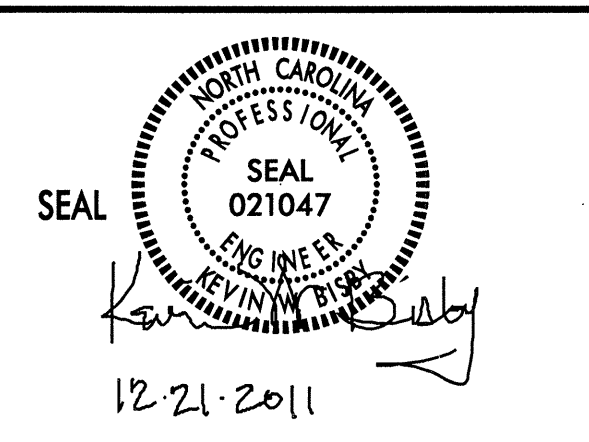
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REVISIONS									



NOTE: SEE SHEETS
TCP-2 AND TCP-3
FOR PROJECT NOTES.

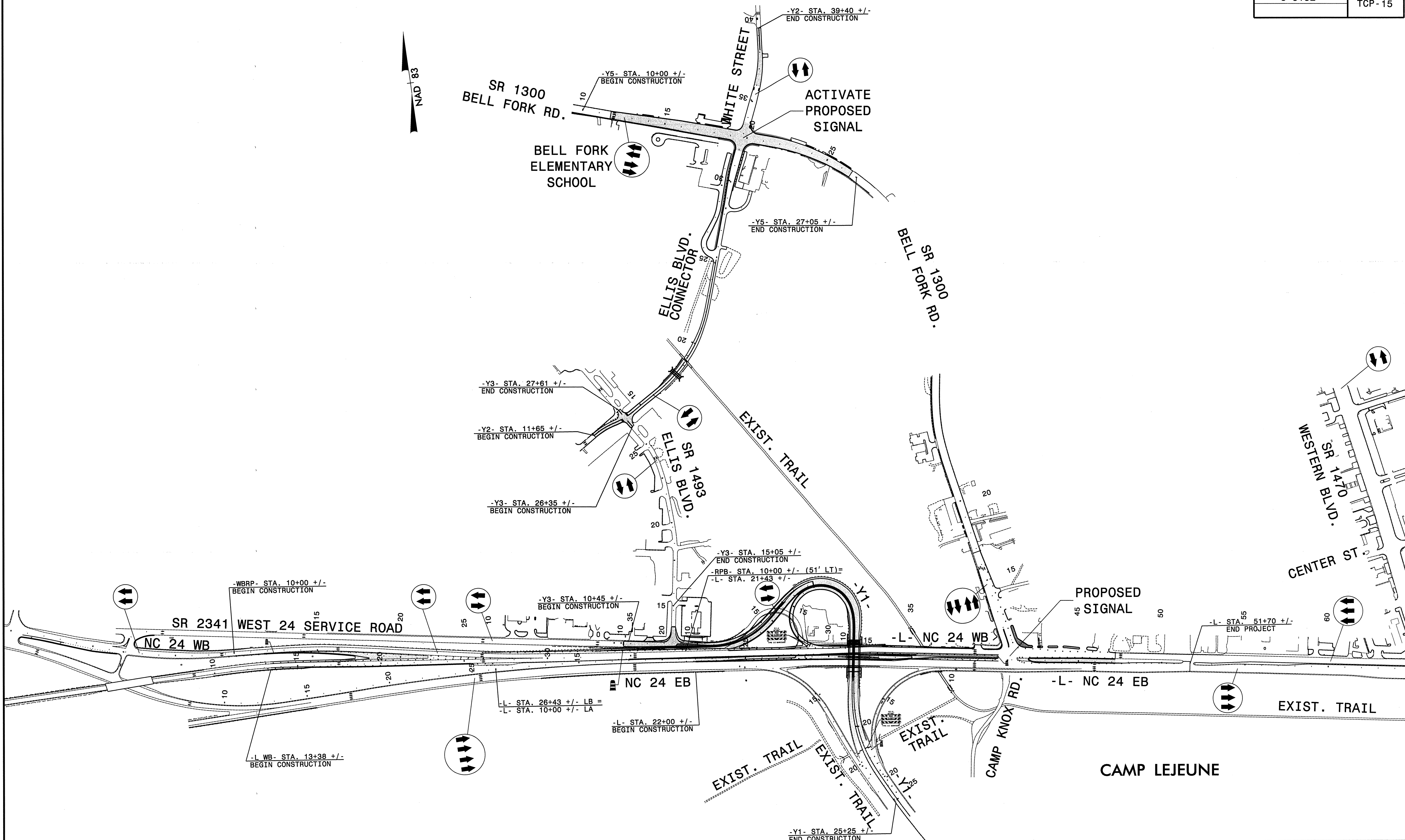
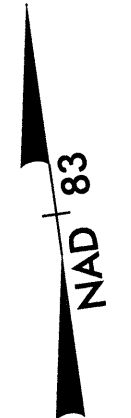
PLANS PREPARED BY :
RK&K
RUMMEL, KLEPPER & KAHL, LLP
900 RIDGEFIELD DRIVE SUITE 350
RALEIGH, NORTH CAROLINA 27609-3960
NC LICENSE NO. F-0112 (919) 878-9560
FOR
THE DIVISION OF HIGHWAYS



PHASE I DETAIL	
SCALE: NONE	REVISIONS
DATE: 12/2011	
DWG. BY: NH	
DESIGN BY: MAC	
REVIEWED BY: KWB	
	CADD FILE



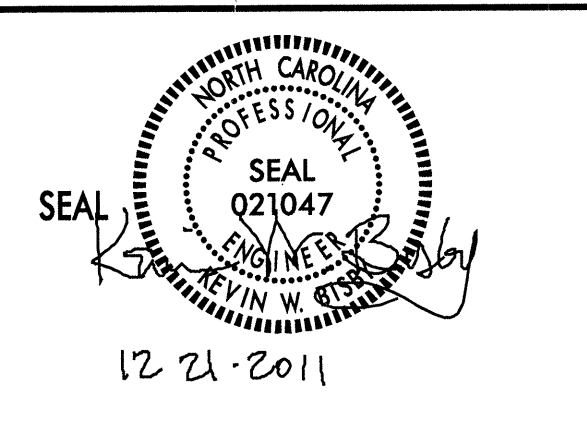
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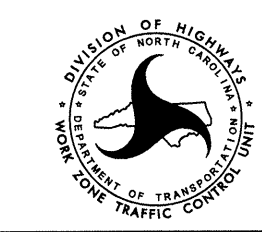
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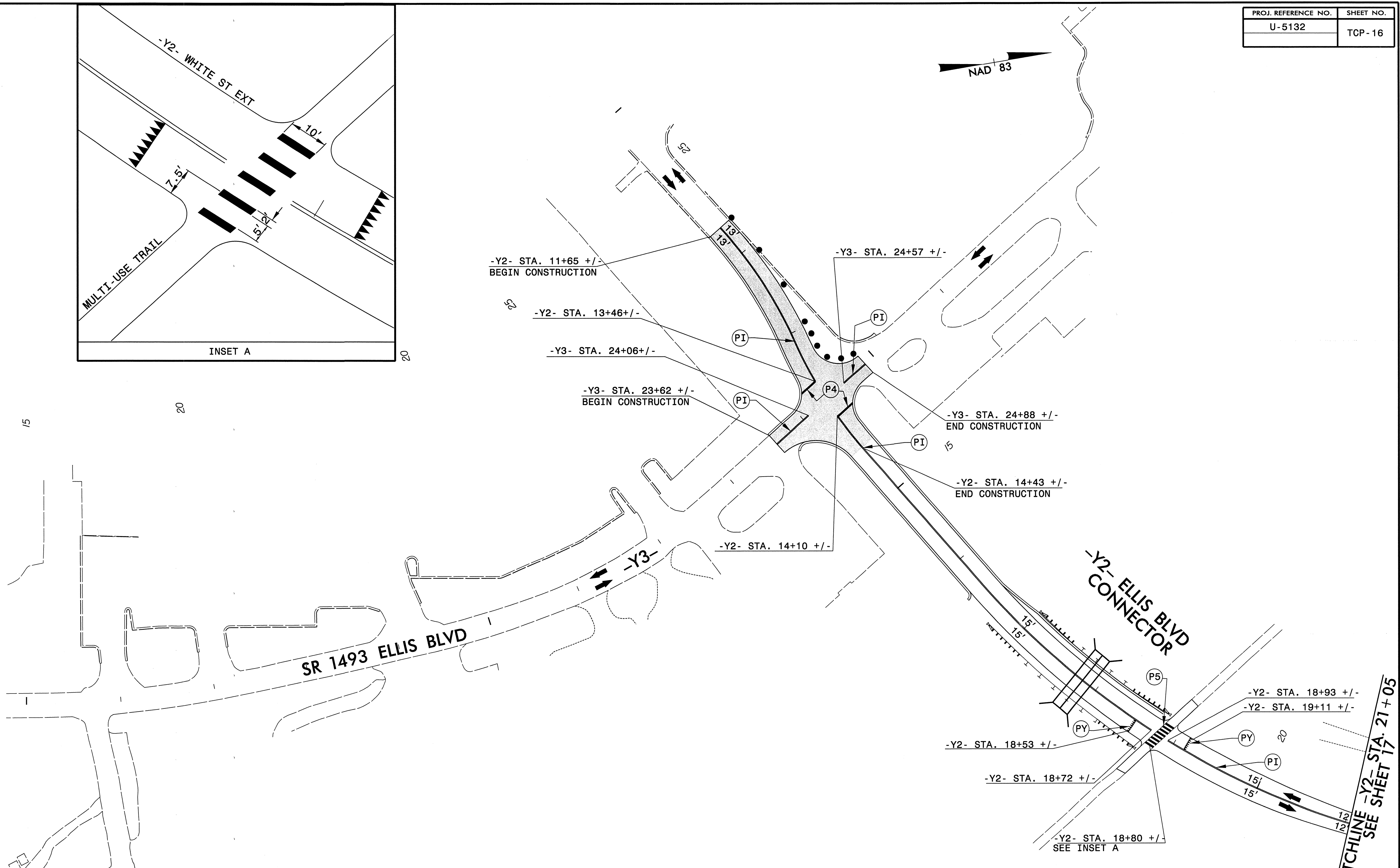
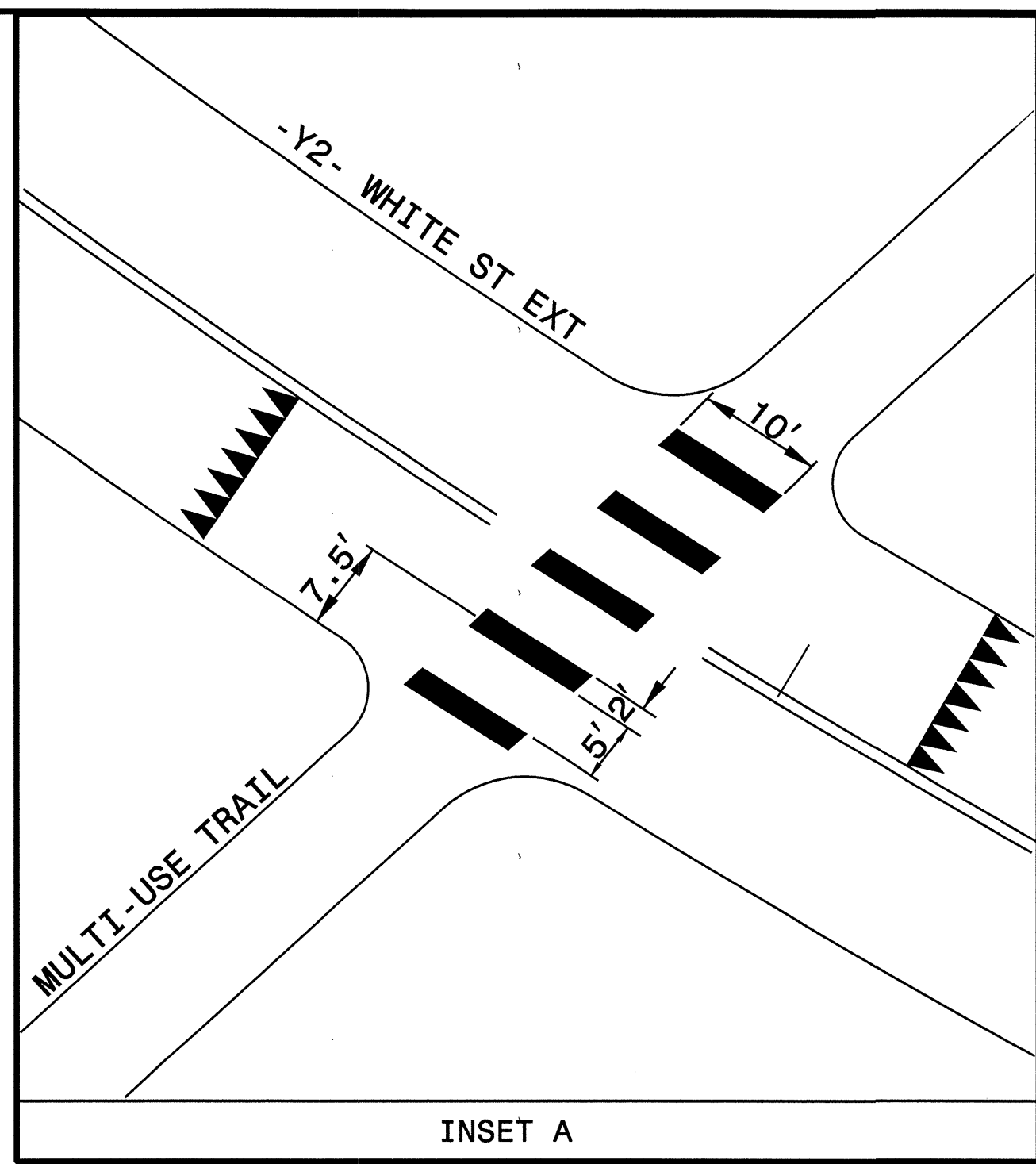
NOTE: SEE SHEETS
TCP-2 AND TCP-3
FOR PROJECT NOTES.

PLANS PREPARED BY:
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RUMMEL KLEPPER & KAHL, LLP
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PHASE II OVERVIEW	
SCALE: NONE	REVISIONS
DATE: 12/20/11	
DESIGN BY: NH	
DESIGN BY: MAC	
REVIEWED BY: KWB	





MATCHLINE -Y2- STA. 21+05
SEE SHEET 17

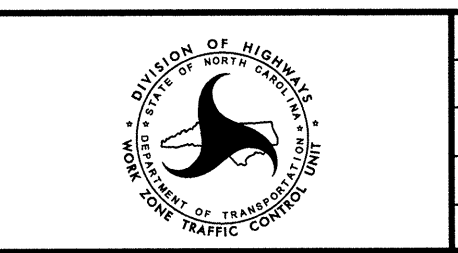
NOTE: SEE SHEETS
TCP-2 AND TCP-3
FOR PROJECT NOTES.

PLANS PREPARED BY :
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RUMMEL, KLEPPER & KAHL, LLP
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NC LICENSE NO. F-0112 (919) 878-9560
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THE DIVISION OF HIGHWAYS

SEAL
NORTH CAROLINA
PROFESSIONAL
ENGINEER
SEAL
021047
REV. 12/21/2011
12.21.2011

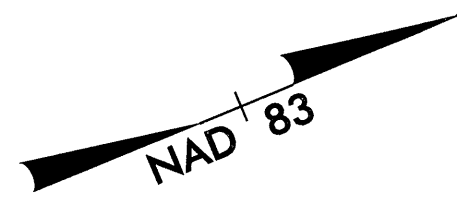
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SCALE: NONE
DATE: 12/2011
DWG. BY: NH
DESIGN BY: MAC
REVIEWED BY: KWB



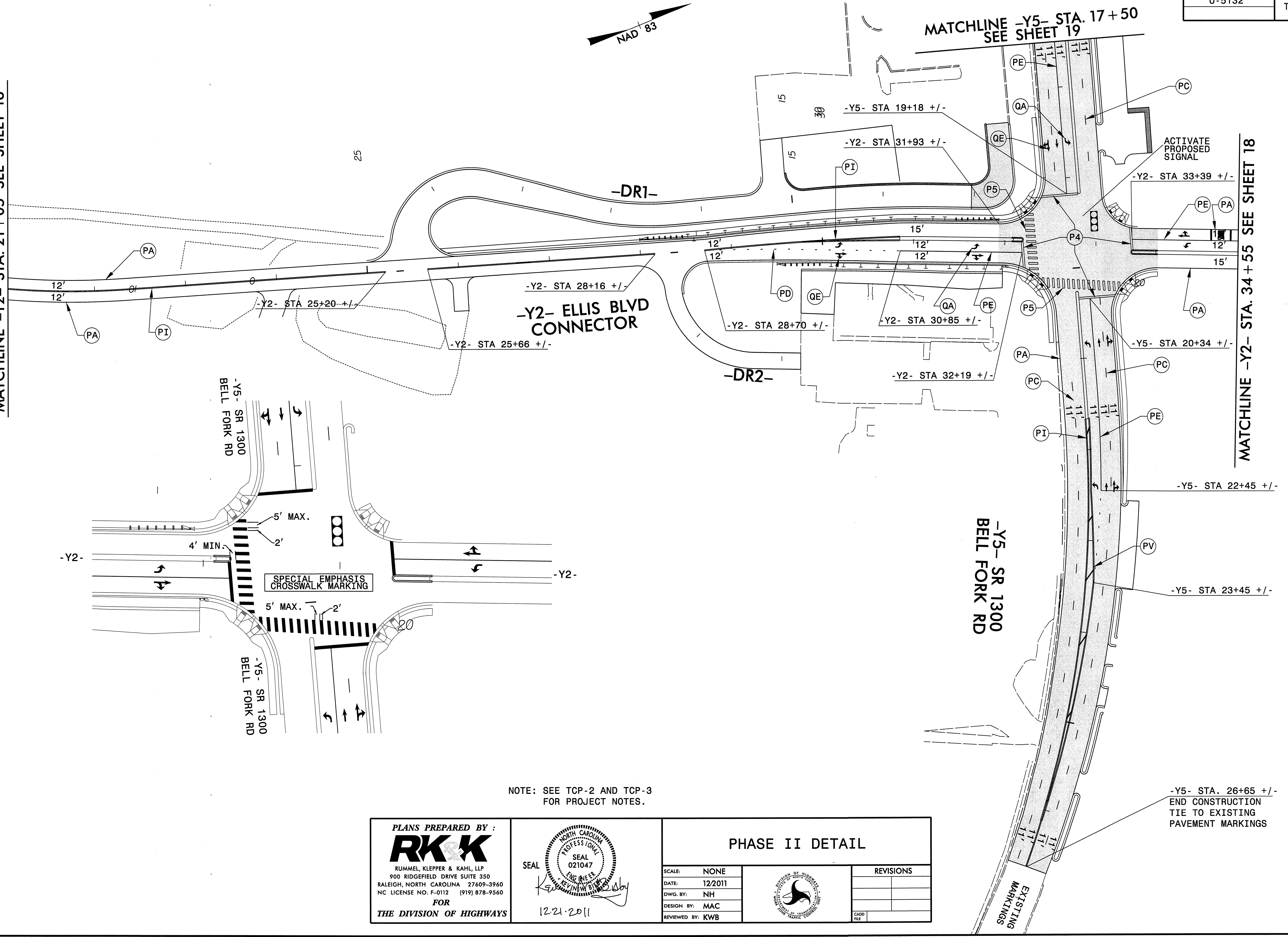
REVISIONS	

12/20/2011
R:\Projects\TrafficControl\TCP\1000\U5132_tcp_tcp16.dgn
nicole



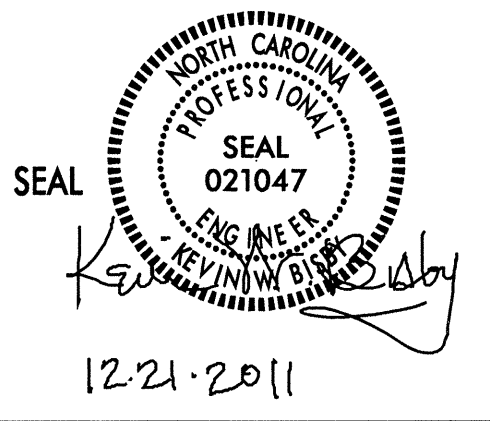
MATCHLINE -Y2- STA. 21+05 SEE SHEET 16

MATCHLINE -Y2- STA. 34+55 SEE SHEET 18



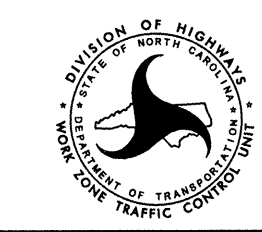
NOTE: SEE TCP-2 AND TCP-3 FOR PROJECT NOTES.

PLANS PREPARED BY :
RK&K
 RUMMEL, KLEPPER & KAHL, LLP
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PHASE II DETAIL

SCALE: NONE
 DATE: 12/20/11
 DWG. BY: NH
 DESIGN BY: MAC
 REVIEWED BY: KWB

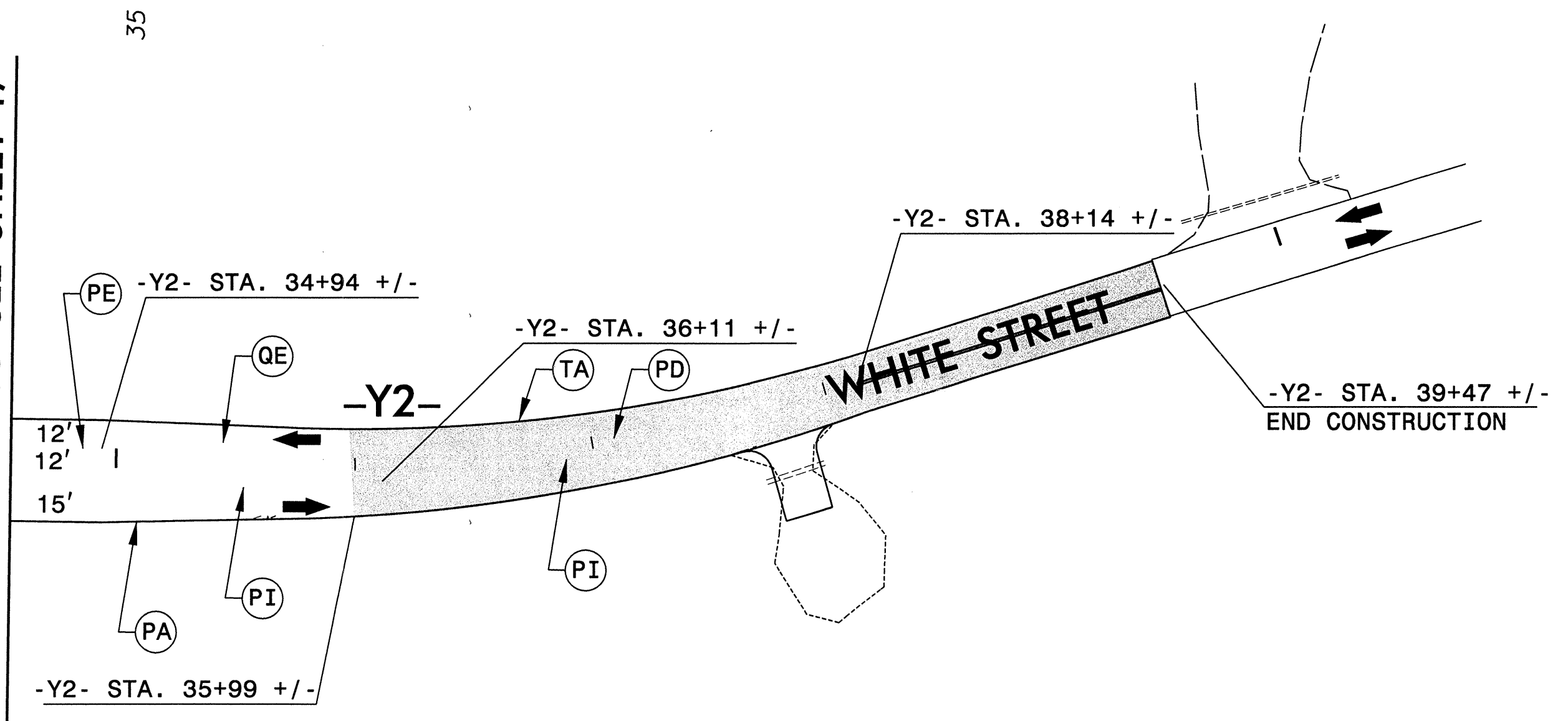


REVISIONS	

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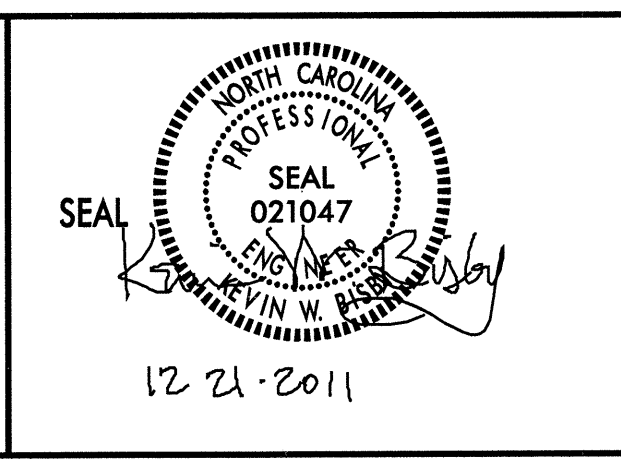


MATCHLINE -Y2- STA. 34 + 55 SEE SHEET 17



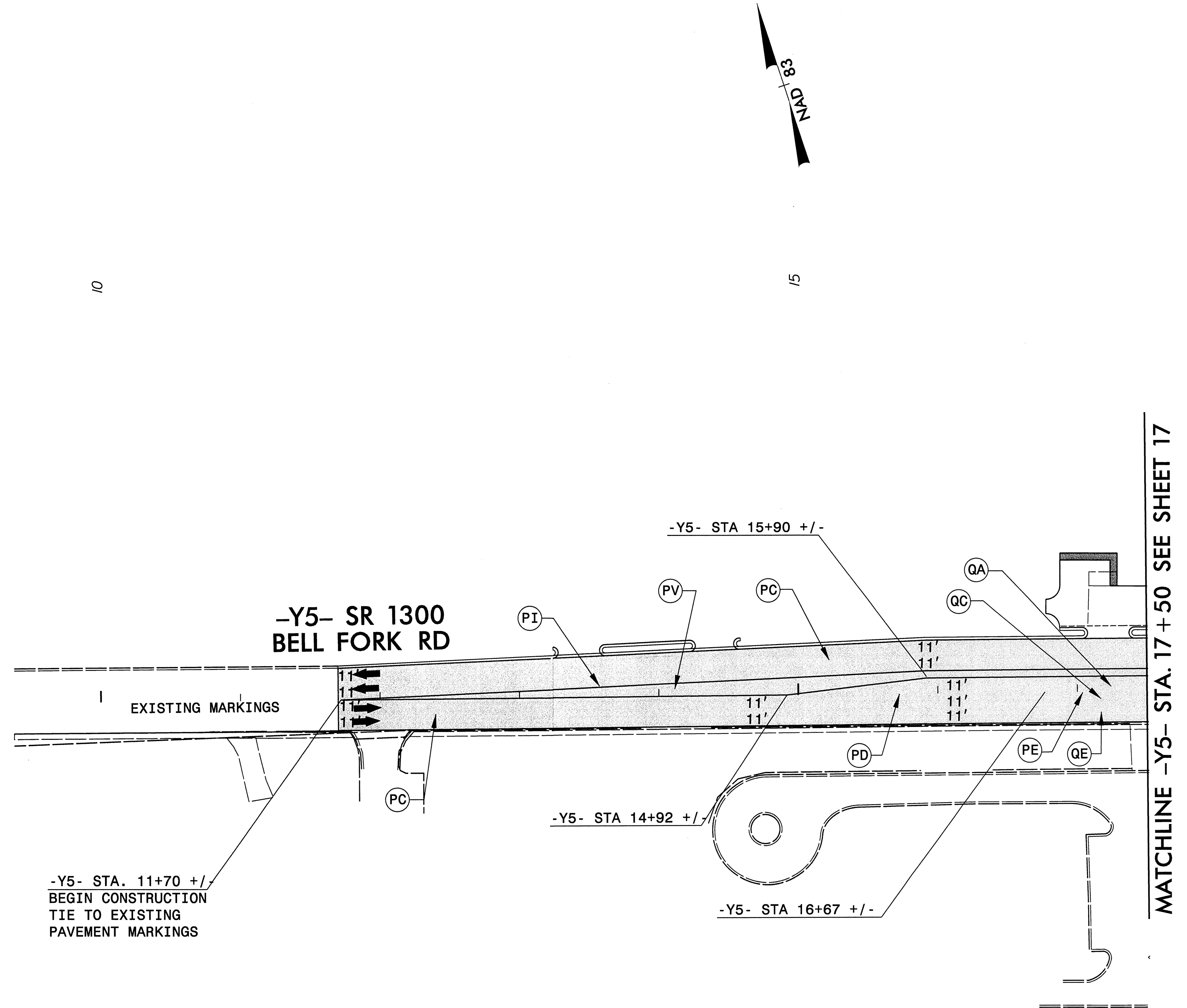
NOTE: SEE TCP-2 AND TCP-3 FOR PROJECT NOTES.

PLANS PREPARED BY :
RK&K
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PHASE II DETAIL		
SCALE: NONE		REVISIONS
DATE: 12/2011		
DWG. BY: NH		
DESIGN BY: MAC		
REVIEWED BY: KWB		CADD FILE

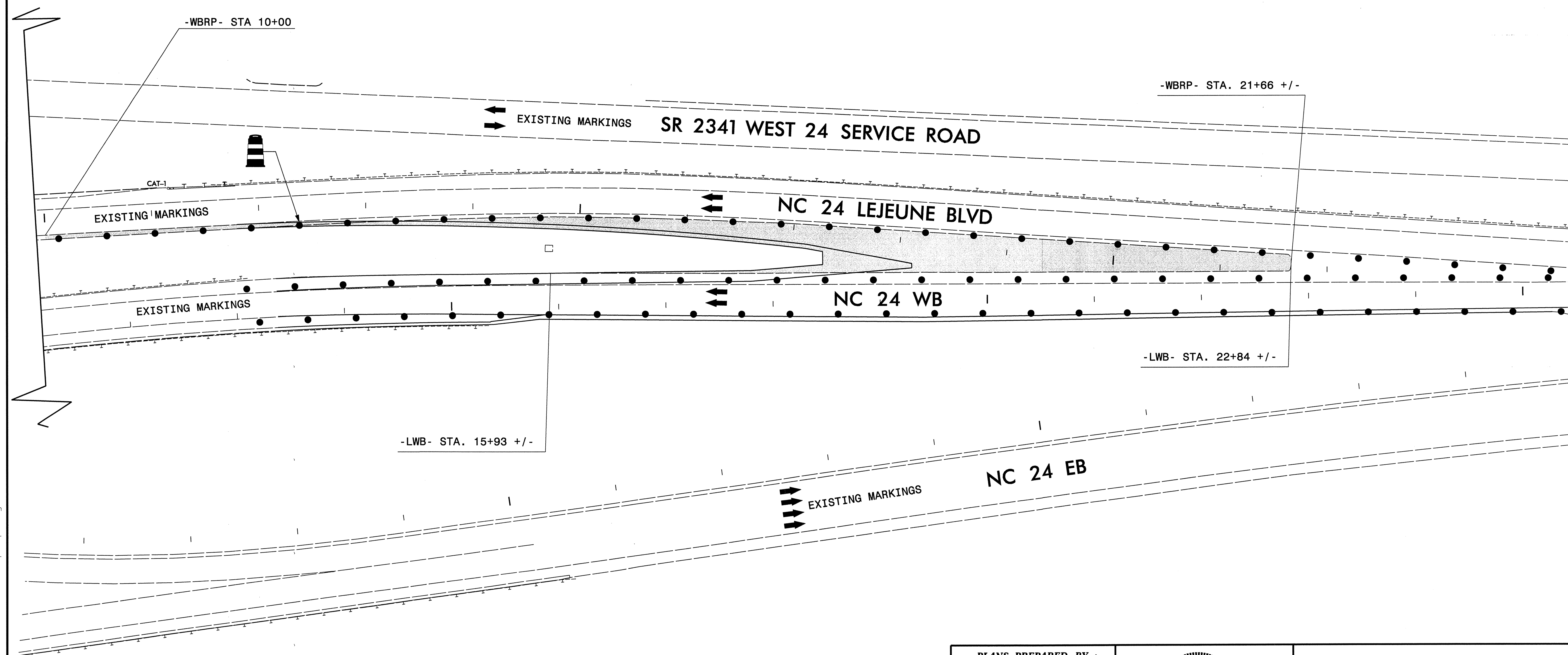
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NOTE: SEE TCP-2 AND TCP-3 FOR PROJECT NOTES.

R:\QC\2011\TrafficControl\TCP\1000\U5132_tcp_top19.dgn

PLANS PREPARED BY : RUMMEL, KLEPPER & KAHL, LLP 900 RIDGEFIELD DRIVE SUITE 350 RALEIGH, NORTH CAROLINA 27609-3960 NC LICENSE NO. F-0112 (919) 878-9560 FOR THE DIVISION OF HIGHWAYS			PHASE II DETAIL	
SCALE:	NONE		REVISIONS	
DATE:	12/2011			
DWG. BY:	NH			
DESIGN BY:	MAC			
REVIEWED BY:	KWB			

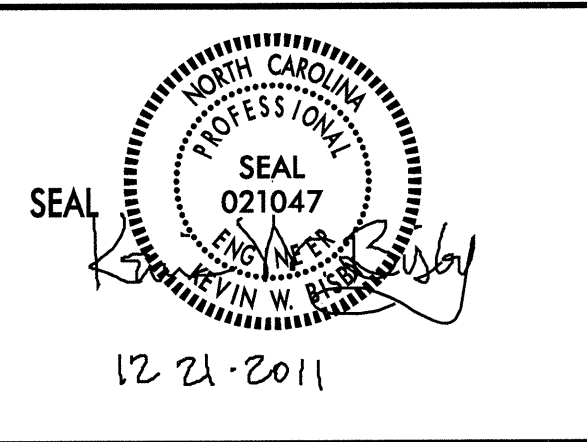


MATCHLINE -L WB- STA. 25+50 SEE SHEET 21

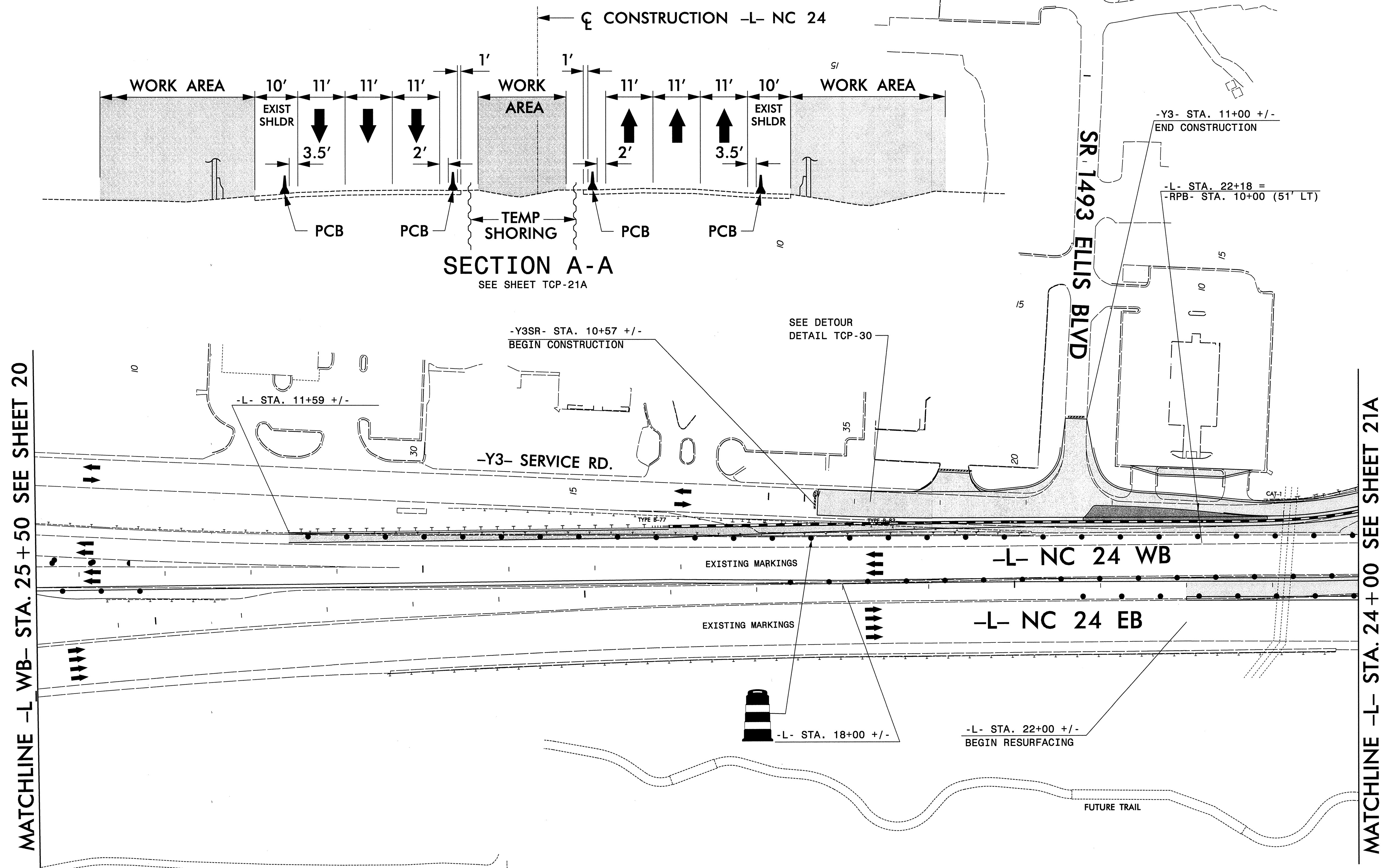
\\s01\p1\c:\TrafficControl\TCP\1007\U5132_tcp_tcp20.dgn

NOTE: SEE SHEETS
TCP-2 AND TCP-3
FOR PROJECT NOTES.

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PHASE II DETAIL		REVISIONS
SCALE:	NONE	
DATE:	12/2011	
DWG. BY:	NH	
DESIGN BY:	MAC	
REVIEWED BY:	KWB	
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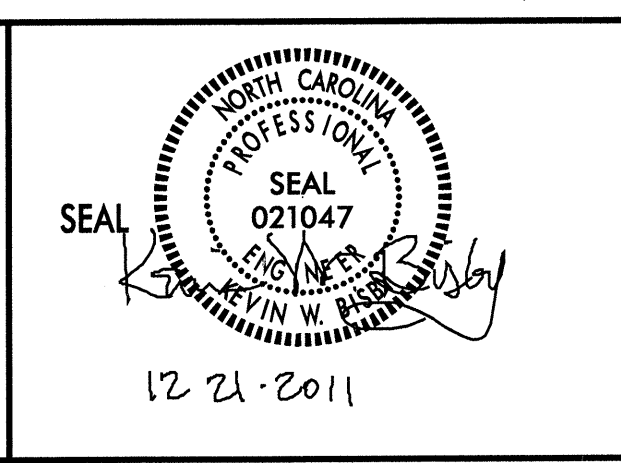


MATCHLINE -L WB- STA. 25 + 50 SEE SHEET 20

MATCHLINE -L- STA. 24 + 00 SEE SHEET 21A

NOTE: SEE SHEETS
TCP-2 AND TCP-3
FOR PROJECT NOTES.

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900 RIDGEFIELD DRIVE SUITE 350
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NC LICENSE NO. F-0112 (919) 878-9560
FOR
THE DIVISION OF HIGHWAYS



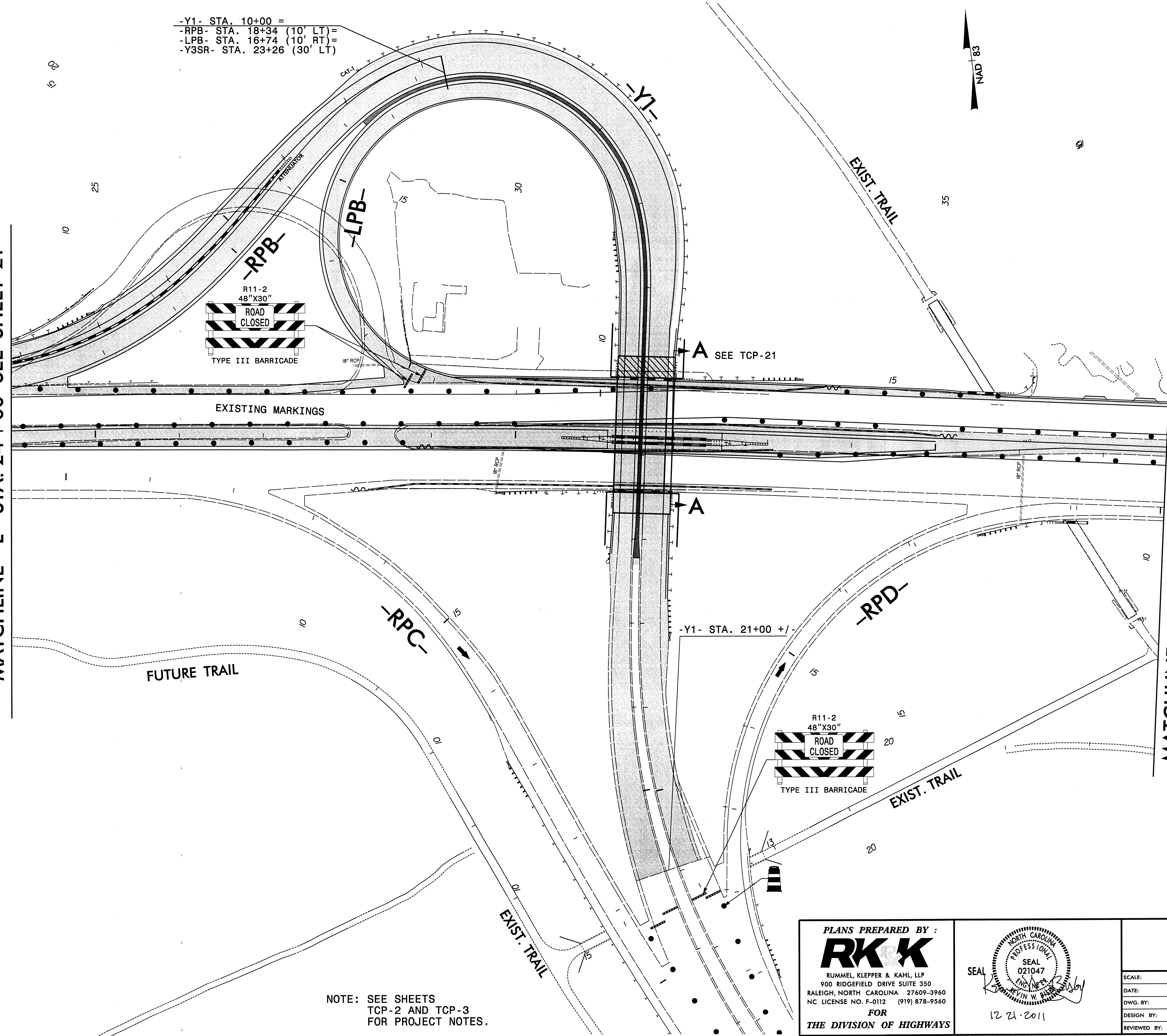
PHASE II DETAIL		REVISIONS	
SCALE:	NONE		
DATE:	12/2011		
DWG. BY:	NH		
DESIGN BY:	MAC		
REVIEWED BY:	KWB		

I:\16\2011\TrafficControl\TCP\100%\u5132_tcp_tcp21.dgn

-Y1- STA. 10+00 =
 -RPB- STA. 18+34 (10' LT)=
 -LPB- STA. 16+74 (10' RT)=
 -Y3SR- STA. 23+26 (30' LT)

MATCHLINE -L- STA. 24+00 SEE SHEET 21

MATCHLINE -L- STA. 37+75 SEE SHEET 22



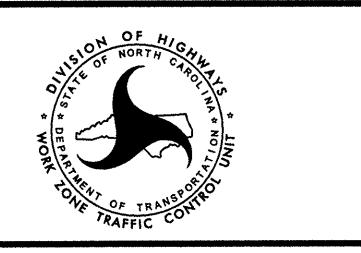
NOTE: SEE SHEETS
 TCP-2 AND TCP-3
 FOR PROJECT NOTES.

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 NC LICENSE NO. F-0112 (919) 878-9560
 FOR
 THE DIVISION OF HIGHWAYS

SEAL
 NORTH CAROLINA
 PROFESSIONAL
 SEAL
 021047
 12-21-2011

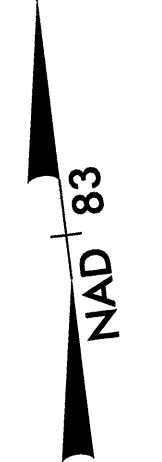
PHASE II DETAIL

SCALE: NONE
 DATE: 12/2011
 DWG. BY: NH
 DESIGN BY: MAC
 REVIEWED BY: KWB



REVISIONS	

12/16/2011
 R:\16\2011\TrafficControl\TCP\100%\U5132_tcp_tcp21A.dgn
 macle



-Y4- STA. 16+80 +/-
 END CONSTRUCTION
 USE RSD NO. 1101.02
 TO MAINTAIN TRAFFIC
 DURING PROPOSED DRAINAGE
 CONSTRUCTION

-Y4- SR 1300 BELL FORK RD

EXISTING MARKINGS

-L- STA. 40+35 +/-

MATCHLINE -L- STA. 37+75 SEE SHEET 21

-L- NC 24 WB

-L- NC 24 EB

EXISTING MARKINGS

EXISTING MARKINGS

TEMP/
 PROPOSED SIGNAL

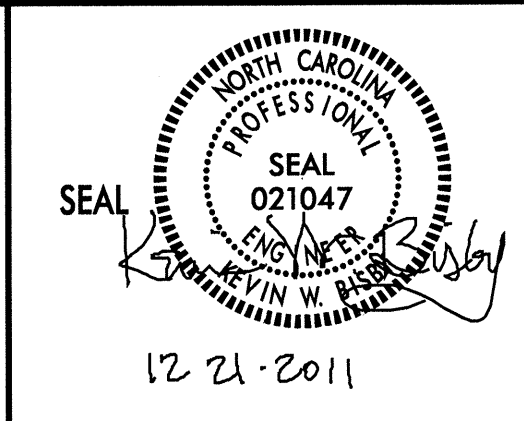
-L- STA 47+20

-L- STA. 51+70 +/-
 END CONSTRUCTION

EXIST. TRAIL

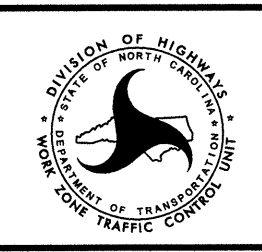
NOTE: SEE SHEETS
 TCP-2 AND TCP-3
 FOR PROJECT NOTES.

PLANS PREPARED BY :
RK&K
 RUMMEL, KLEPPER & KAHL, LLP
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 NC LICENSE NO. F-0112 (919) 878-9560
 FOR
 THE DIVISION OF HIGHWAYS



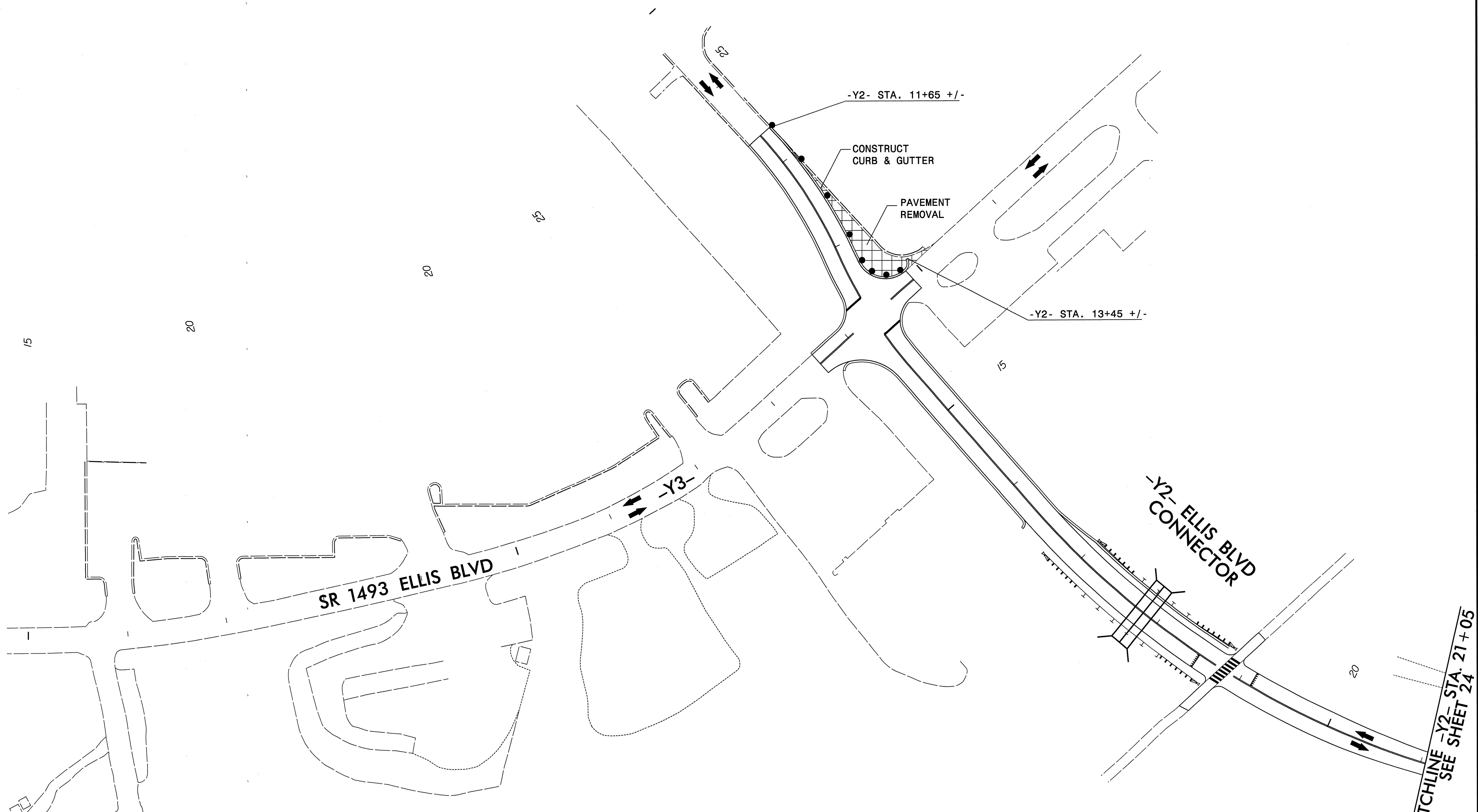
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DESIGN BY:	MAC
REVIEWED BY:	KWB



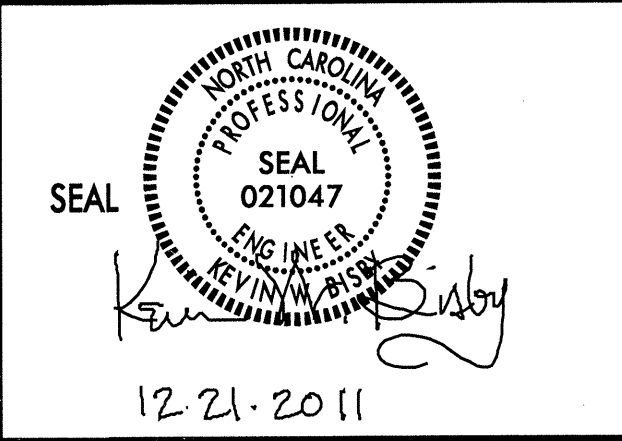
REVISIONS	

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 12/20/2011
 mac



NOTE: SEE SHEETS
TCP-2 AND TCP-3
FOR PROJECT NOTES.

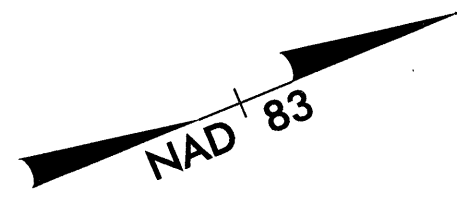
PLANS PREPARED BY :
RK K
RUMMEL, KLEPPER & KAHL, LLP
900 RIDGEFIELD DRIVE SUITE 350
RALEIGH, NORTH CAROLINA 27609-3960
NC LICENSE NO. F-0112 (919) 878-9560
FOR
THE DIVISION OF HIGHWAYS



PHASE II DETAIL									
SCALE: NONE									
DATE: 12/2011									
DWG. BY: NH									
DESIGN BY: MAC									
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REVISIONS									

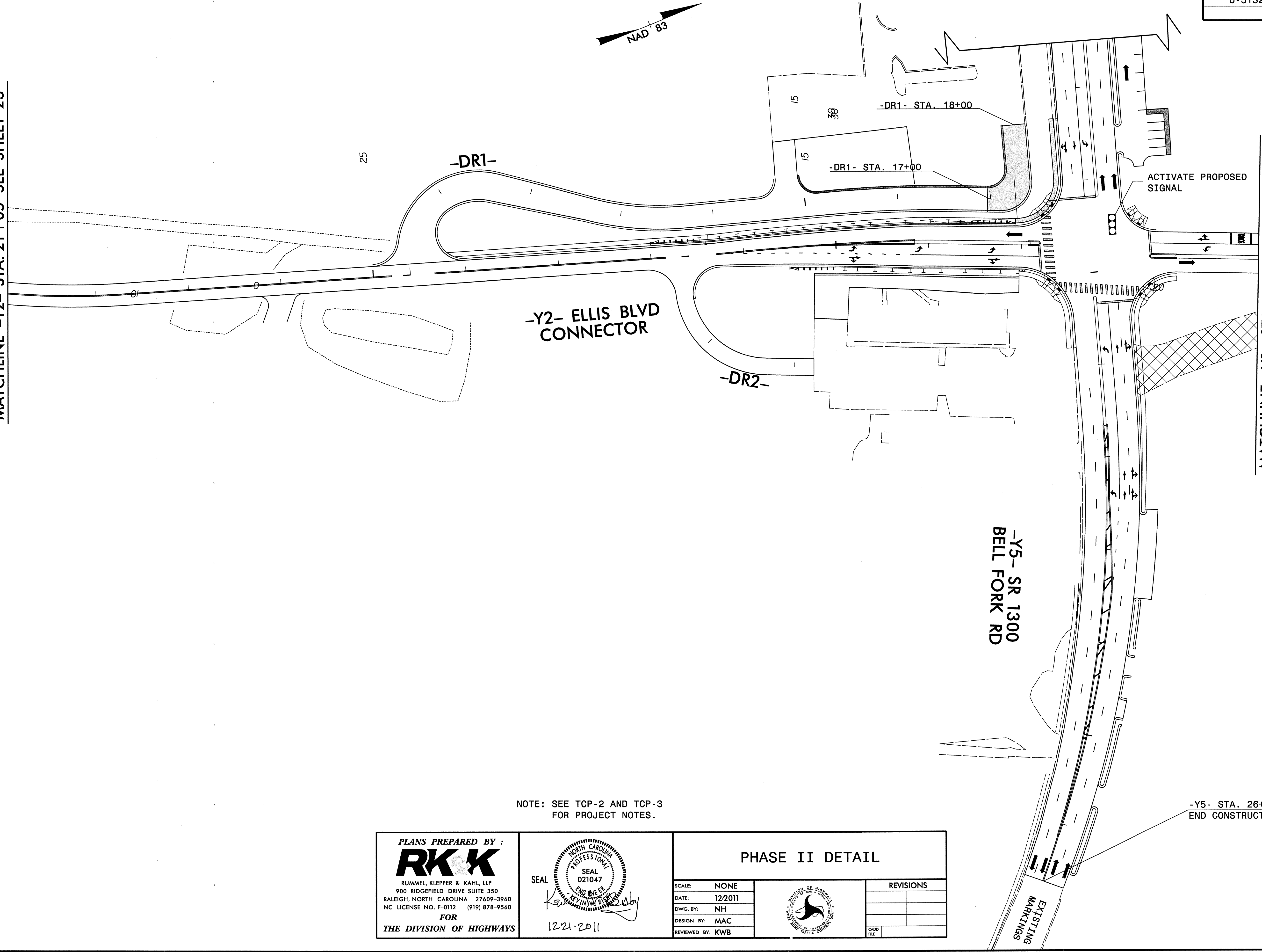
MATCHLINE -Y2- STA. 21+05
SEE SHEET 24

12/20/2011
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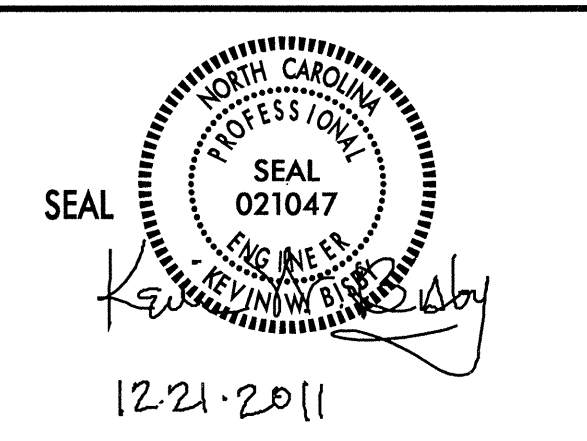
MATCHLINE -Y2- STA. 21+05 SEE SHEET 23

MATCHLINE -Y2- STA. 34+55 SEE SHEET 25



NOTE: SEE TCP-2 AND TCP-3 FOR PROJECT NOTES.

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 NC LICENSE NO. F-0112 (919) 878-9560
 FOR
THE DIVISION OF HIGHWAYS



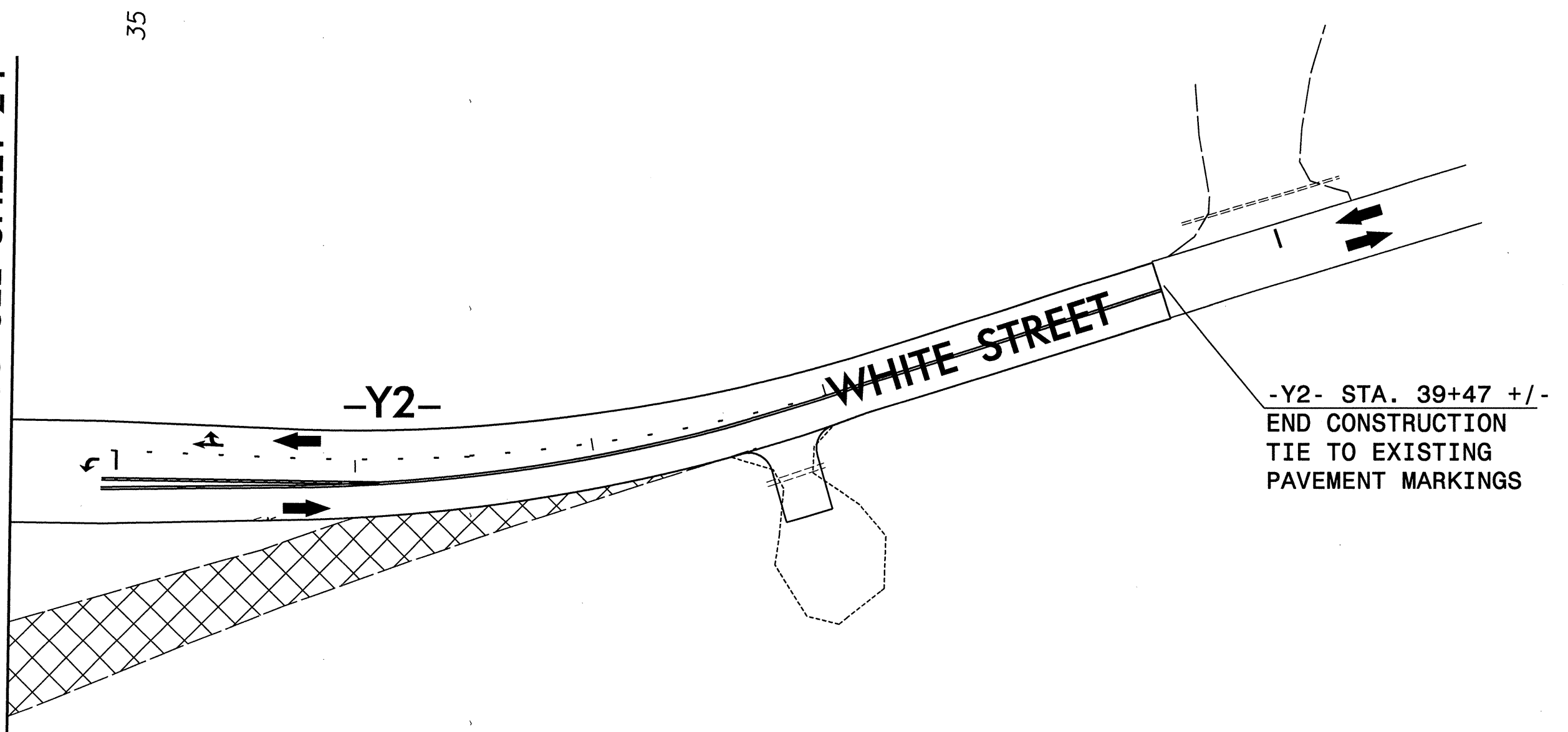
PHASE II DETAIL		REVISIONS	
SCALE:	NONE		
DATE:	12/2011		
DWG. BY:	NH		
DESIGN BY:	MAC		
REVIEWED BY:	KWB		

EXISTING MARKINGS

-Y5- STA. 26+65 +/-
END CONSTRUCTION



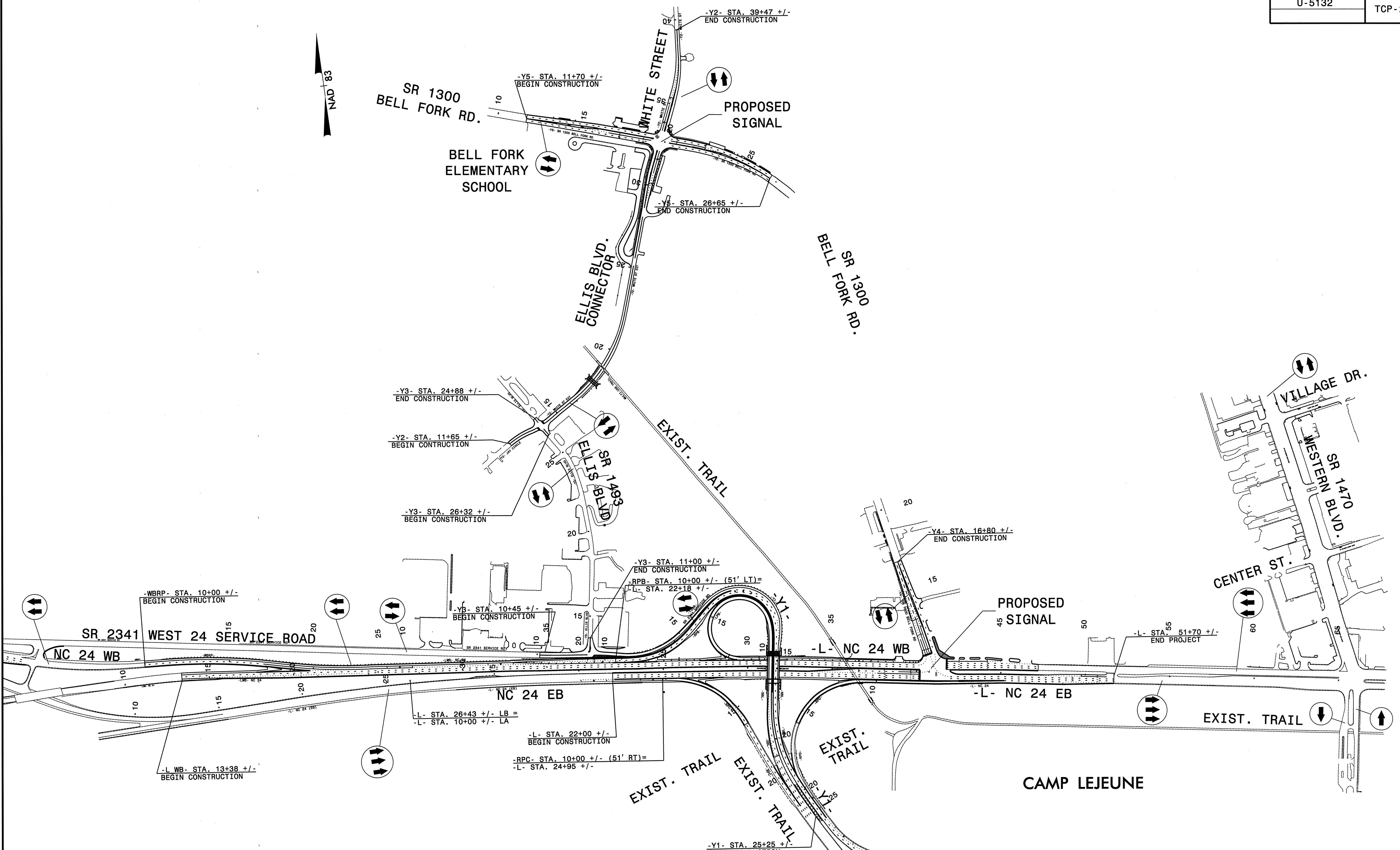
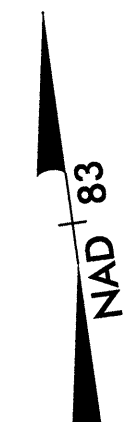
MATCHLINE -Y2- STA. 34+55 SEE SHEET 24



NOTE: SEE TCP-2 AND TCP-3 FOR PROJECT NOTES.

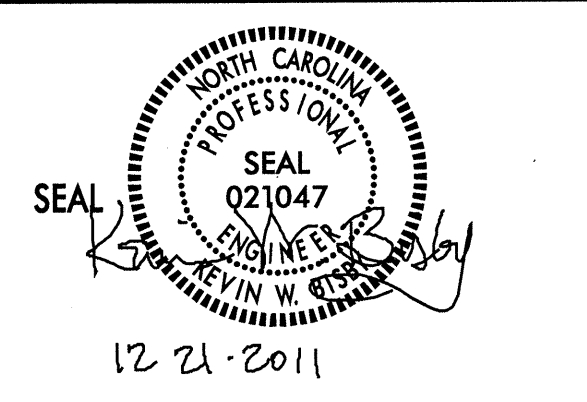
PLANS PREPARED BY : RUMMEL, KLEPPER & KAHL, LLP 900 RIDGEFIELD DRIVE SUITE 350 RALEIGH, NORTH CAROLINA 27609-3960 NC LICENSE NO. F-0112 (919) 878-9560 FOR THE DIVISION OF HIGHWAYS		PHASE II DETAIL																			
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REVISIONS																					
DATE:	12/2011																				
DWG. BY:	NH																				
DESIGN BY:	MAC																				
REVIEWED BY:	KWB																				

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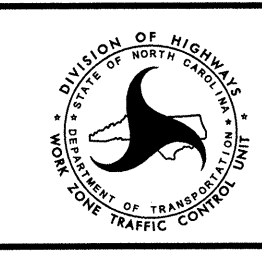
12/20/2011
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 mccoie

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RK&K
 RUMMEL, KLEPPER & KAHL, LLP
 900 RIDGEFIELD DRIVE SUITE 350
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 NC LICENSE NO. F-0112 (919) 878-9560
 FOR
THE DIVISION OF HIGHWAYS

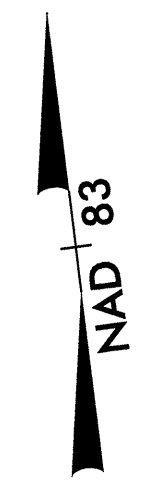


PHASE III OVERVIEW

SCALE: NONE
 DATE: 12/20/11
 DWG. BY: NH
 DESIGN BY: MAC
 REVIEWED BY: KWB



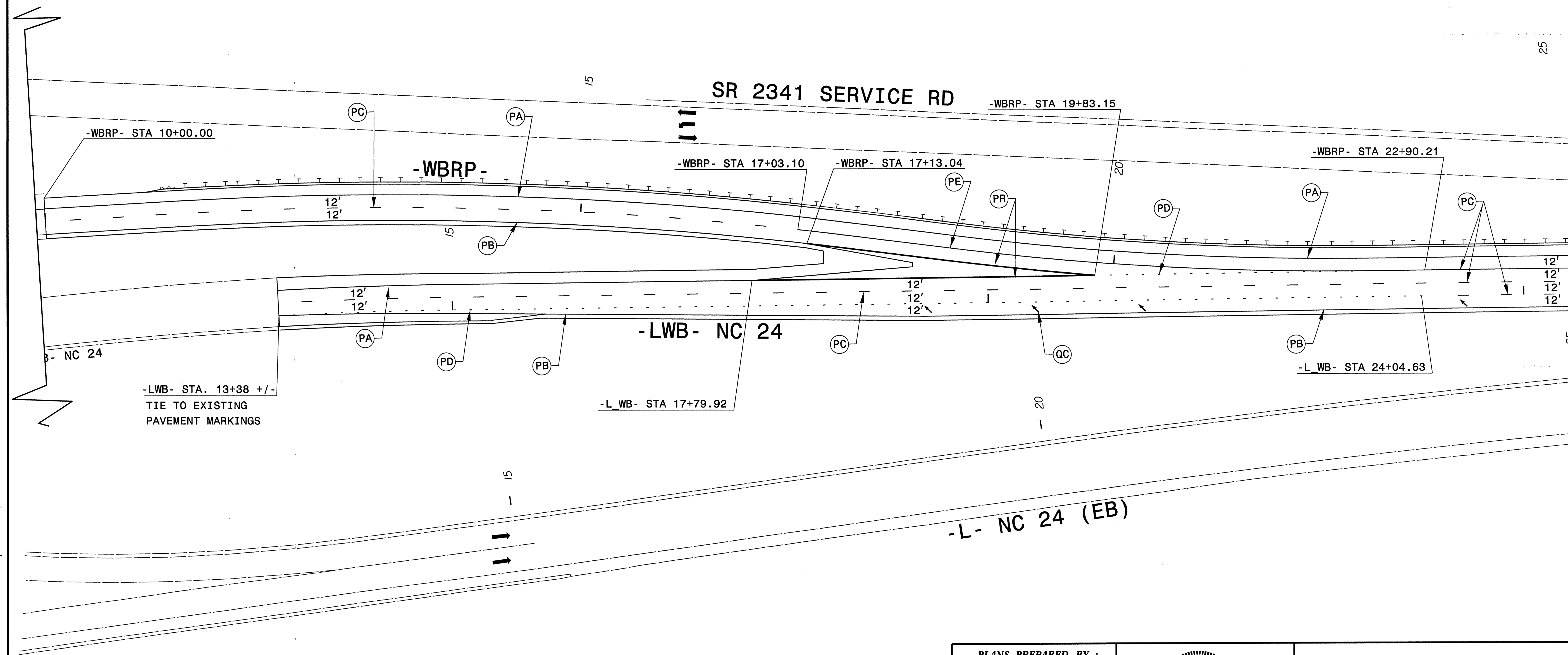
REVISIONS



10

25

MATCHLINE -L_WB- STA. 25 + 50 SEE SHEET 28



-LWB- STA. 13+38 +/-
TIE TO EXISTING
PAVEMENT MARKINGS

-L WB- STA 17+79.92

-L WB- STA 24+04.63

SR 2341 SERVICE RD

-L- NC 24 (EB)

NOTE: SEE SHEETS
TCP-2 AND TCP-3
FOR PROJECT NOTES.

PLANS PREPARED BY :

RK K

RUMMEL, KLEPPER & KAHL, LLP
900 RIDGEFIELD DRIVE SUITE 350
RALEIGH, NORTH CAROLINA 27609-3960
NC LICENSE NO. F-0112 (919) 878-9560

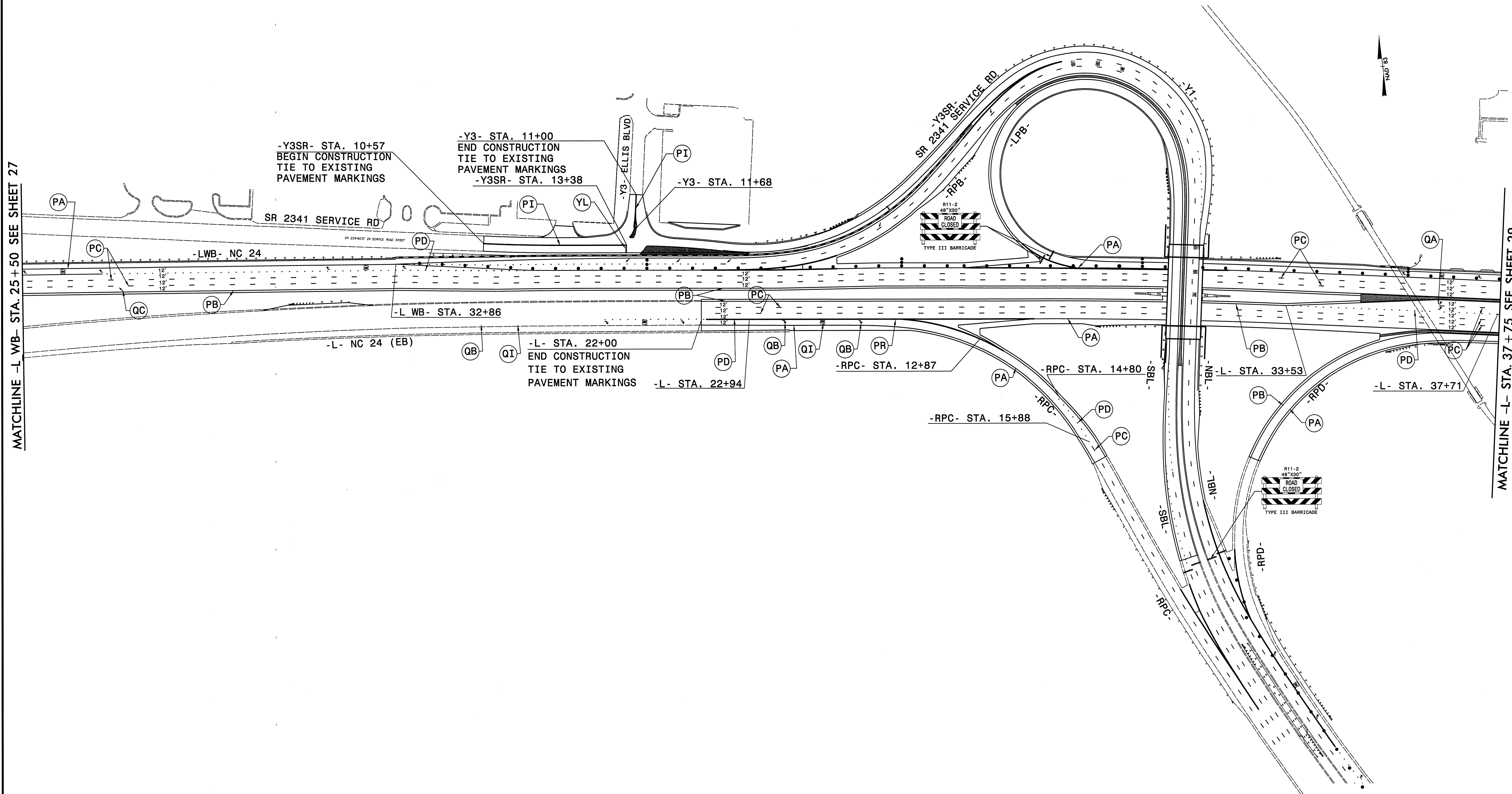
FOR
THE DIVISION OF HIGHWAYS



PHASE III DETAIL

SCALE: NONE		REVISIONS
DATE: 12/2011		
DWG. BY: NH		
DESIGN BY: MAC		
REVIEWED BY: KWB		

12/20/2011
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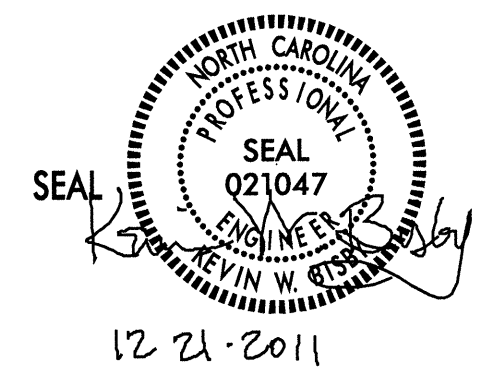


MATCHLINE -L WB- STA. 25+50 SEE SHEET 27

MATCHLINE -L- STA. 37+75 SEE SHEET 29

NOTE: SEE SHEETS
TCP-2 AND TCP-3
FOR PROJECT NOTES.

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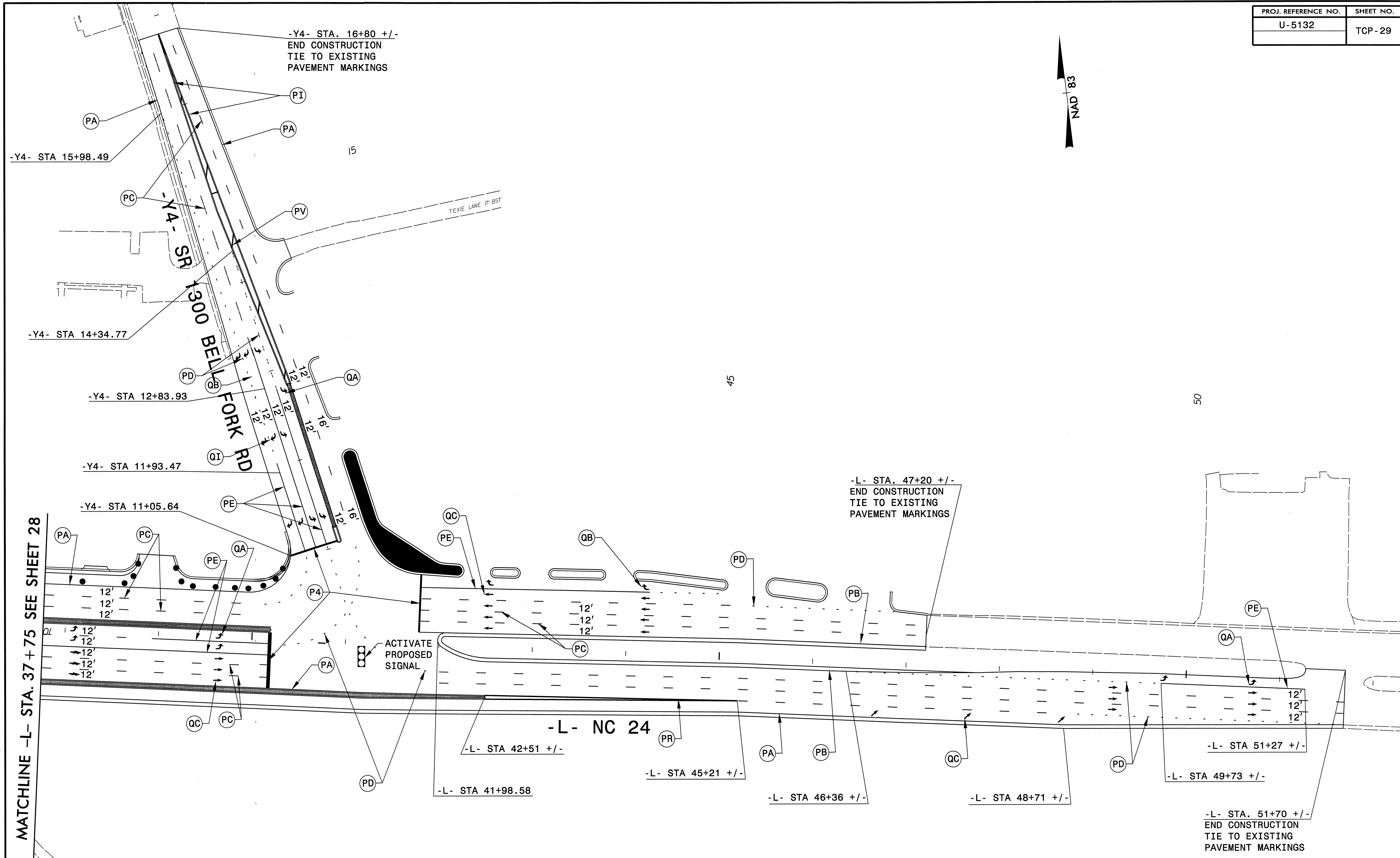
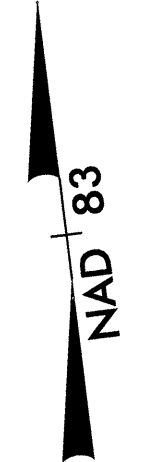


PHASE III DETAIL

SCALE: NONE
DATE: 12/2011
DWG. BY: NH
DESIGN BY: MAC
REVIEWED BY: KWB



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MATCHLINE -L- STA. 37 + 75 SEE SHEET 28

-Y4- STA. 16+80 +/-
END CONSTRUCTION
TIE TO EXISTING
PAVEMENT MARKINGS

-L- STA. 47+20 +/-
END CONSTRUCTION
TIE TO EXISTING
PAVEMENT MARKINGS

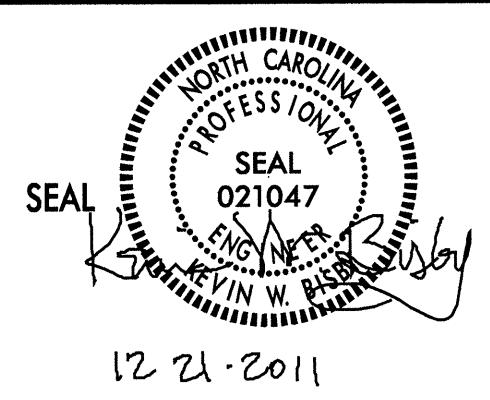
-L- STA. 51+70 +/-
END CONSTRUCTION
TIE TO EXISTING
PAVEMENT MARKINGS

ACTIVATE
PROPOSED
SIGNAL

-L- NC 24

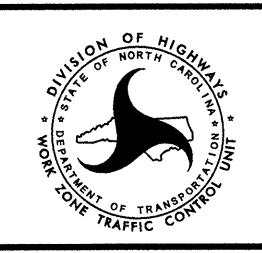
NOTE: SEE SHEETS
TCP-2 AND TCP-3
FOR PROJECT NOTES.

PLANS PREPARED BY :
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900 RIDGEFIELD DRIVE SUITE 350
RALEIGH, NORTH CAROLINA 27609-3960
NC LICENSE NO. F-0112 (919) 878-9560
FOR
THE DIVISION OF HIGHWAYS



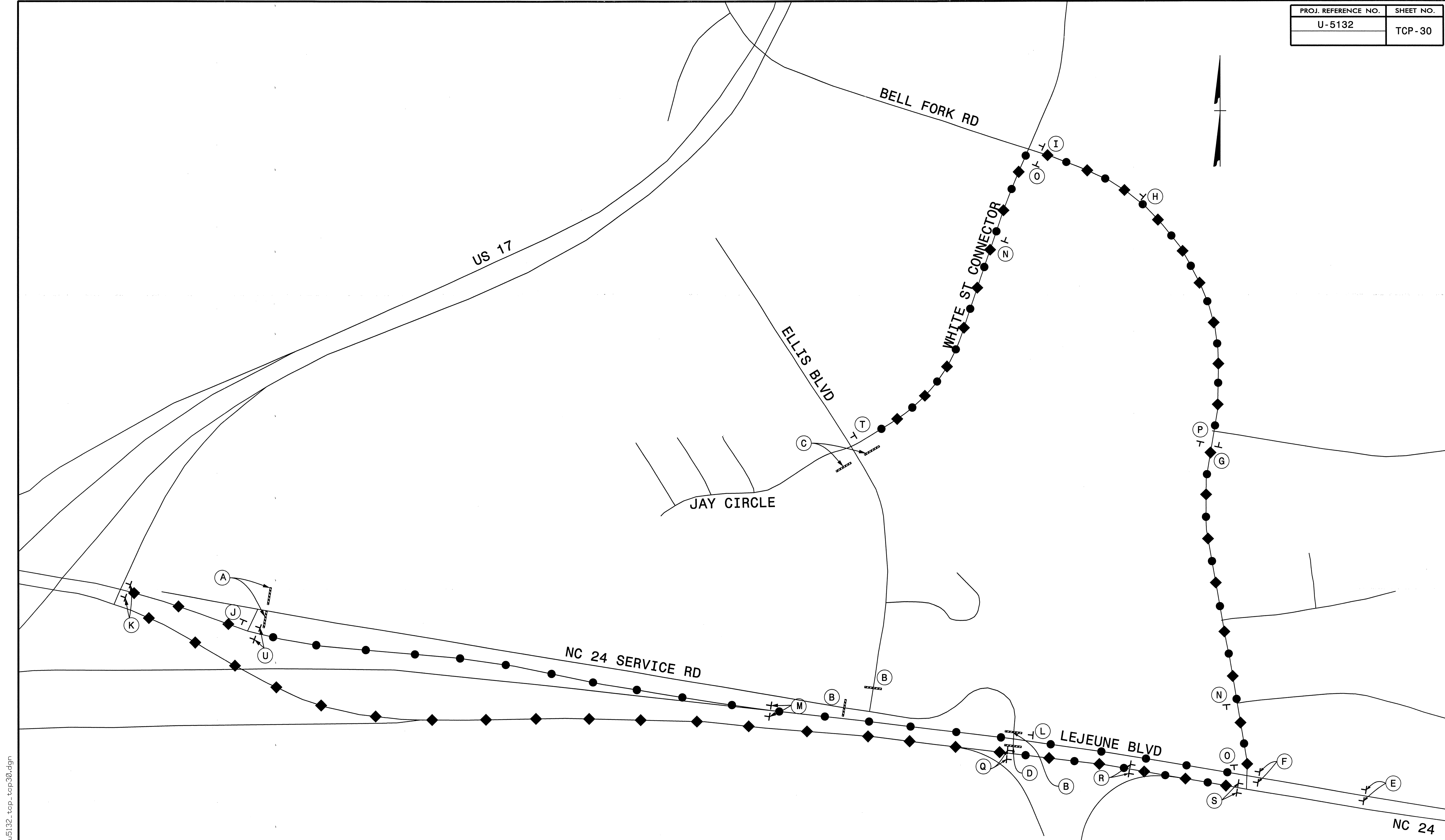
PHASE III DETAIL

SCALE:	NONE
DATE:	12/2011
DWG. BY:	NH
DESIGN BY:	MAC
REVIEWED BY:	KWB



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12/20/2011
C:\Users\krc\Documents\Projects\1000\U5132_tcp_tcp29.dgn



 NC 24 SERVICE RD
 DETOUR ROUTE

 ELLIS BLVD
 DETOUR ROUTE

SEE RDWY STD 1101.03 SHEETS 1 AND 2
 FOR ADDITIONAL SIGNING AND TRAFFIC
 CONTROL DEVICES.

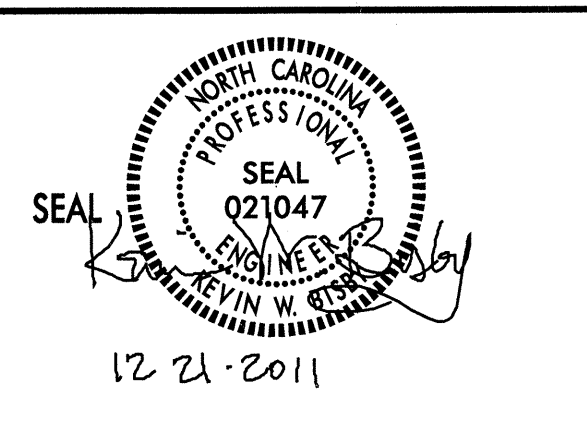
DUAL MOUNT ALL DETOUR SIGNS ON NC 24.
 SEE TCP-30A FOR SIGNING SCHEDULE

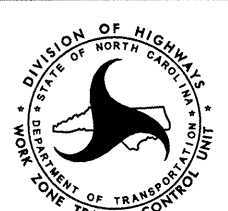
PLANS PREPARED BY :

RK&K

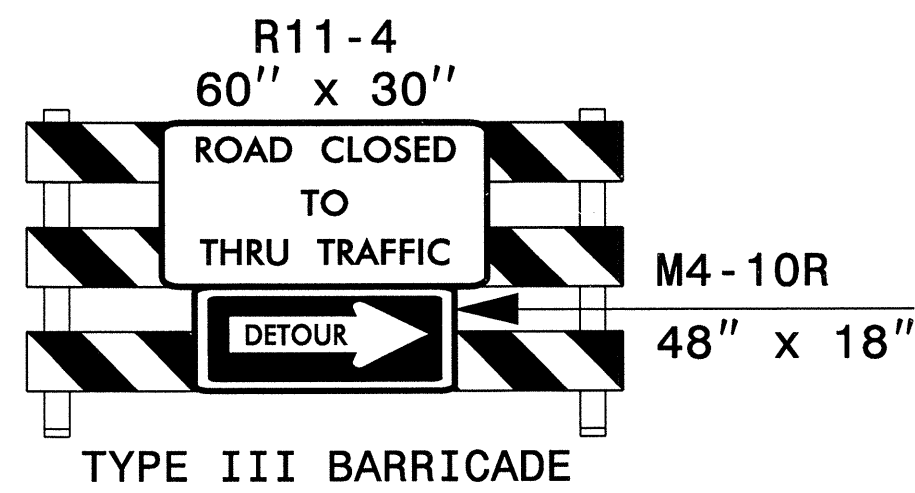
RUMMEL, KLEPPER & KAHL, LLP
 900 RIDGEFIELD DRIVE SUITE 350
 RALEIGH, NORTH CAROLINA 27409-3960
 NC LICENSE NO. F-0112 (919) 878-9560

FOR
THE DIVISION OF HIGHWAYS

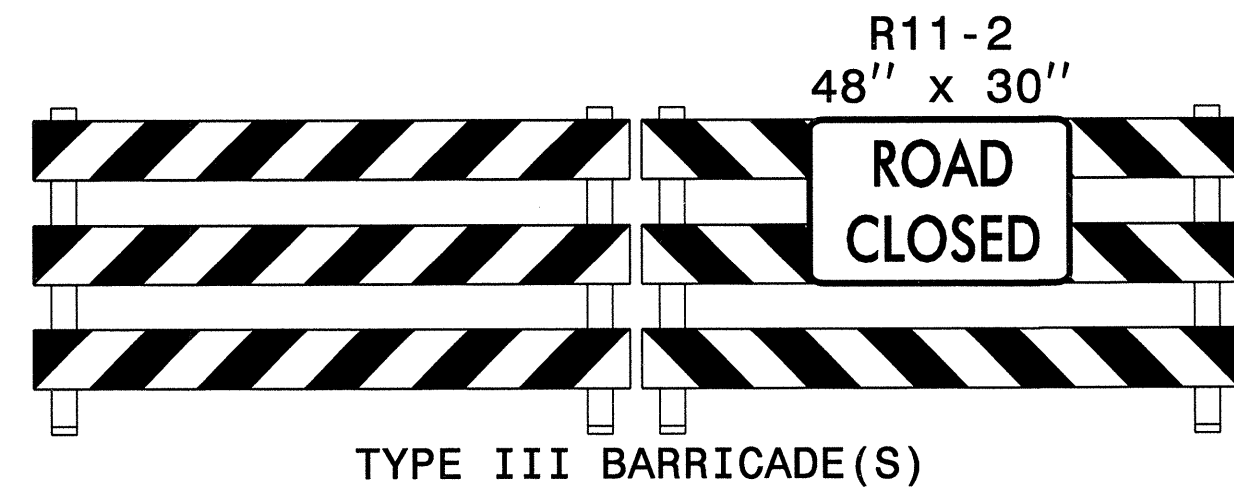


DETOUR DETAIL			
SCALE: NONE			
DATE: 12/2011			
DESIGN BY: MAC			
REVIEWED BY: KWB			
REVISIONS			
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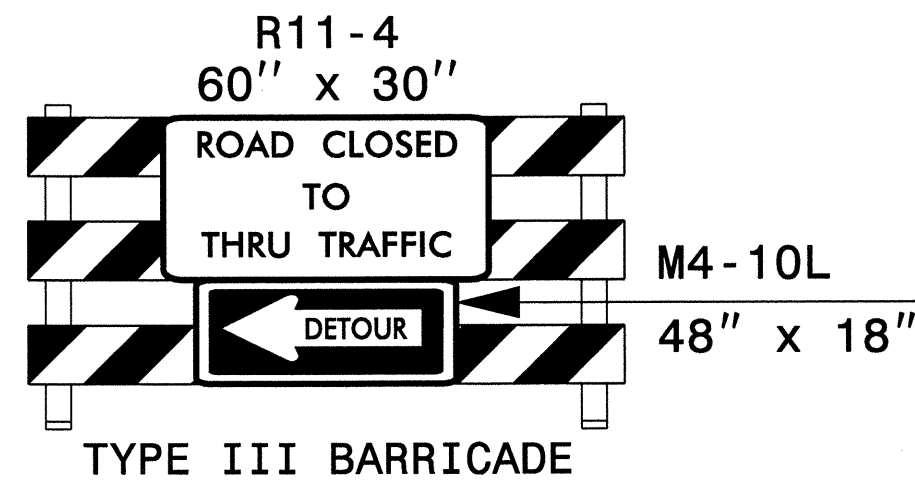
12/20/2011
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 meola



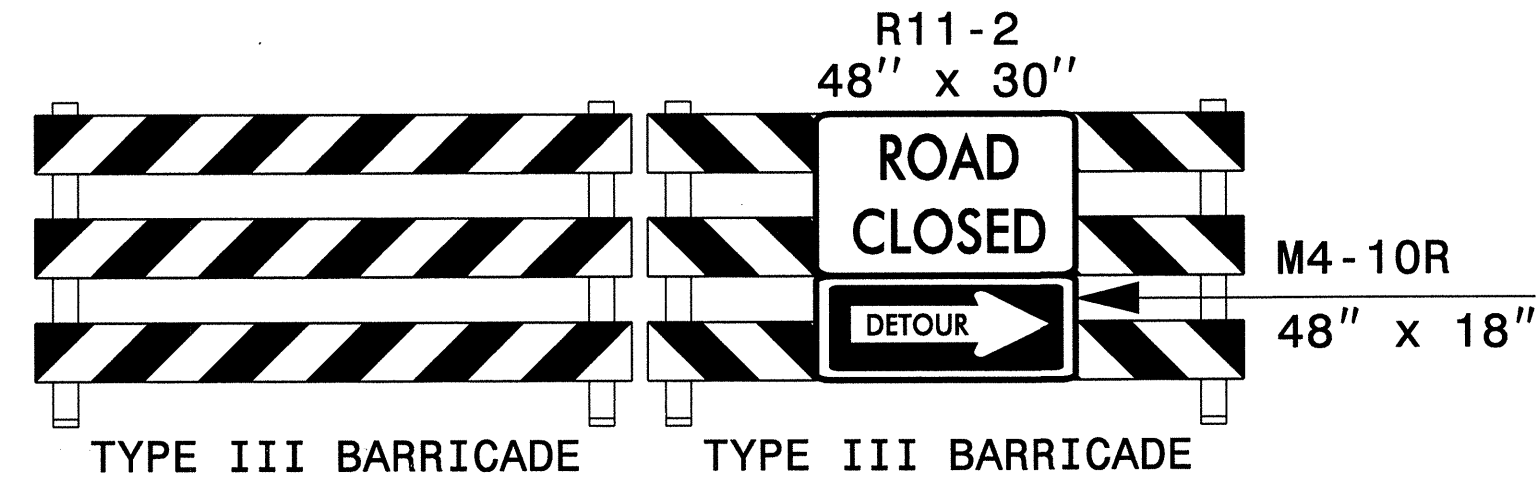
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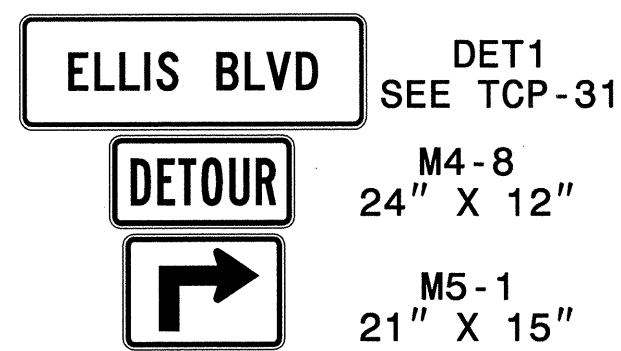
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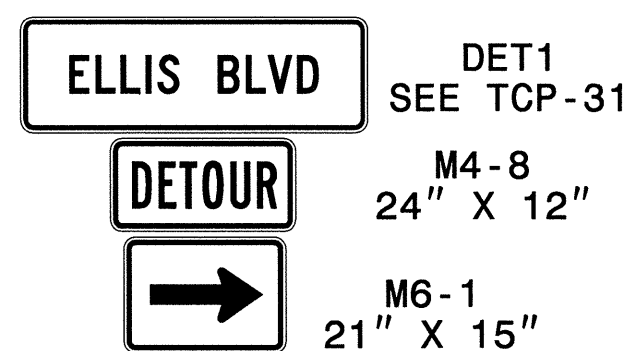
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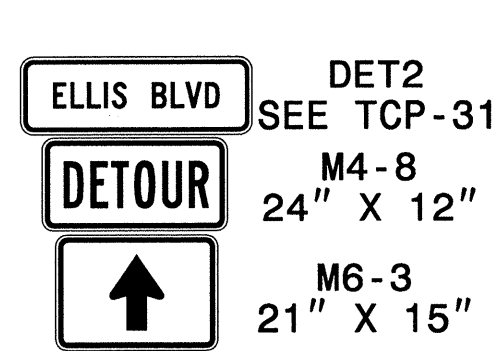
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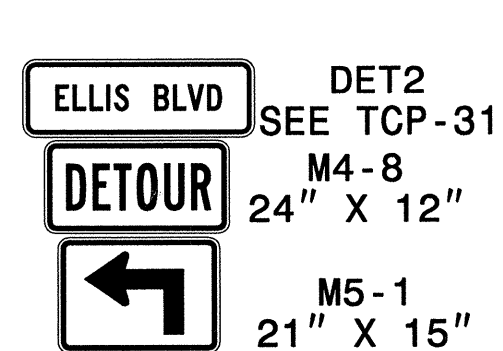
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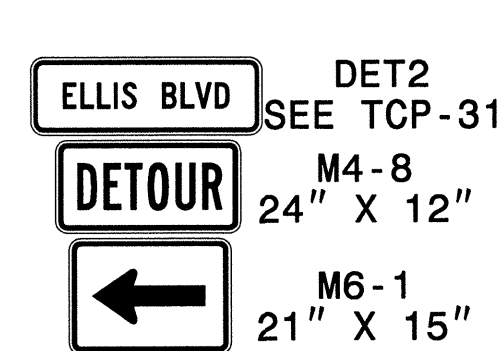
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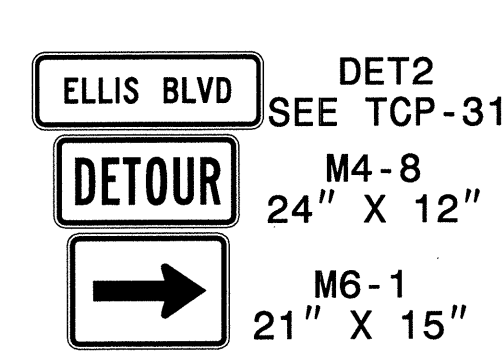
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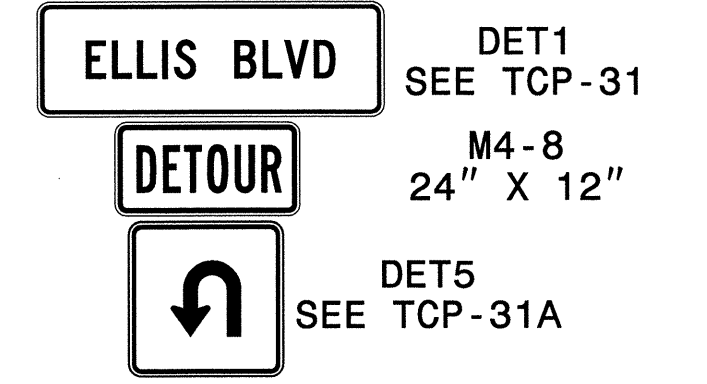
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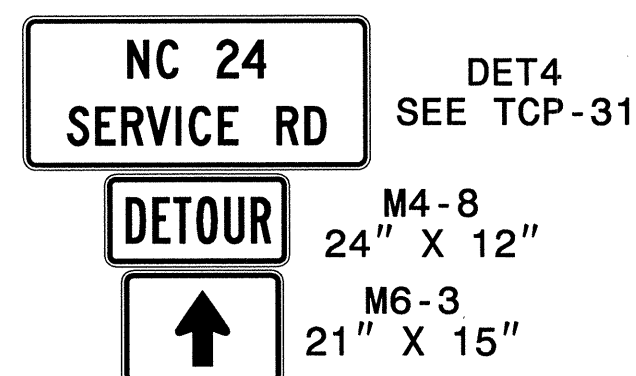
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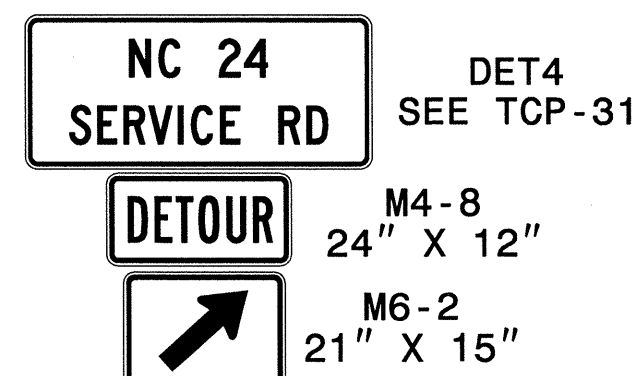
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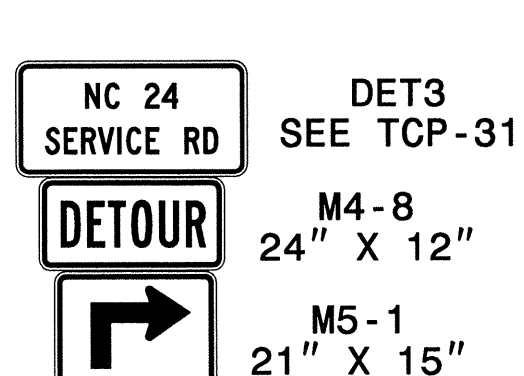
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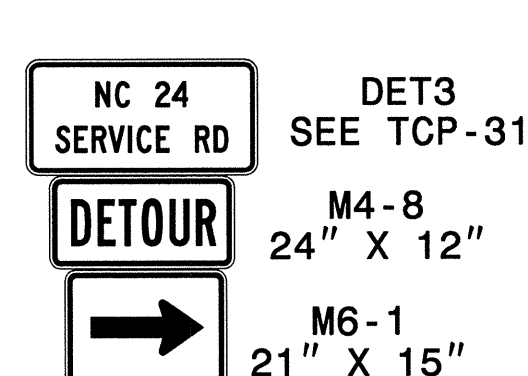
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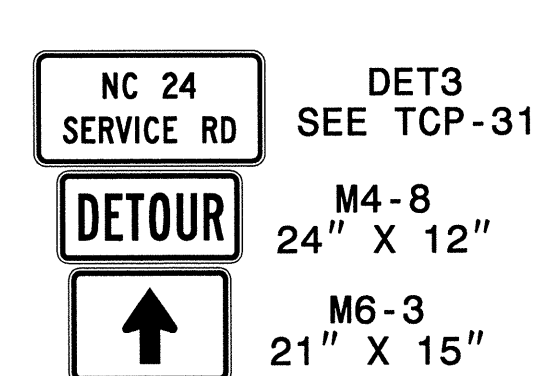
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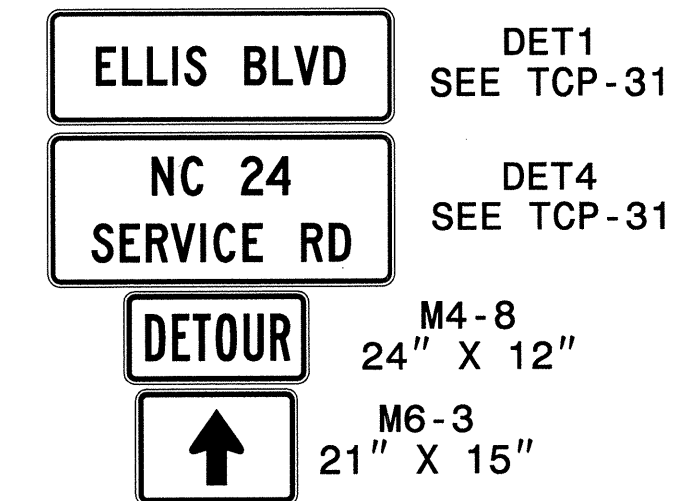
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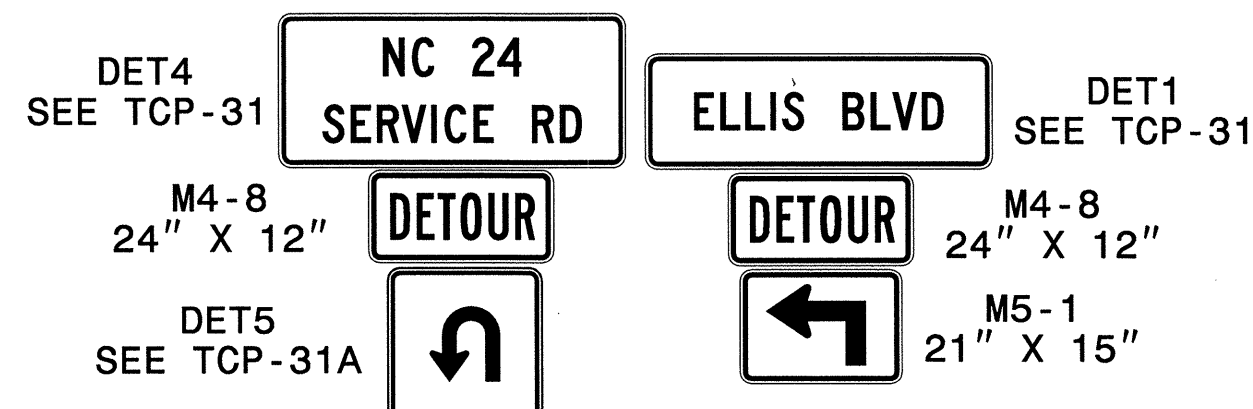
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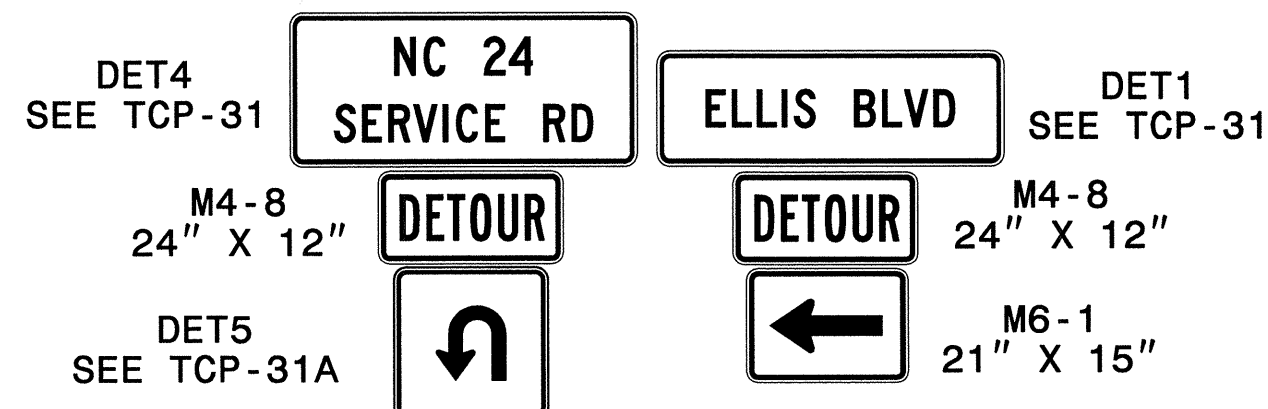
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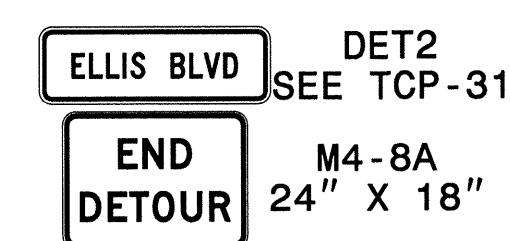
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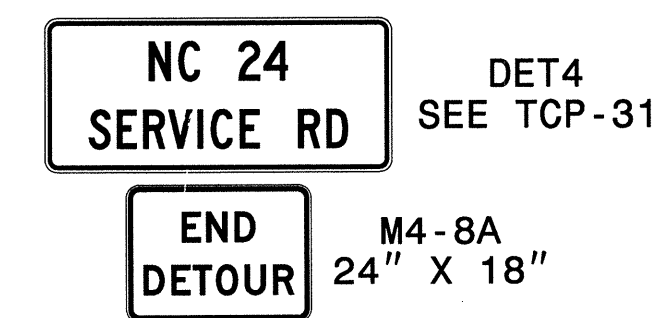
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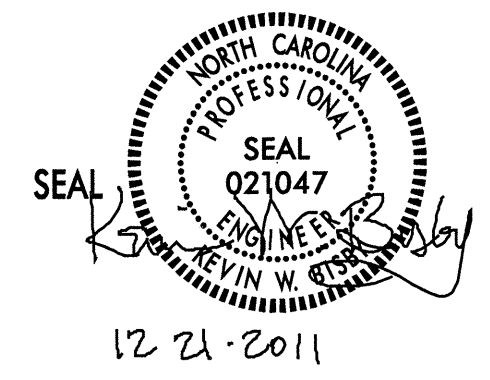
(T)



(U)

12/20/2011 R:\TrafficControl\TCP\100%\U5132_tcp_tcp30A.dgn

PLANS PREPARED BY :
RK & K
RUMMEL, KLEPPER & KAHL, LLP
900 RIDGEFIELD DRIVE SUITE 350
RALEIGH, NORTH CAROLINA 27609-3960
NC LICENSE NO. F-0112 (919) 878-9560
FOR
THE DIVISION OF HIGHWAYS



DETOUR SIGNING SCHEDULE

SCALE: NONE		REVISIONS
DATE: 12/20/11		
DWG. BY: NH		
DESIGN BY: MAC		
REVIEWED BY: KWB		

SIGN NUMBER: DET1
 TYPE: D
 QUANTITY: 1
 SIGN WIDTH: 4'-6"
 HEIGHT: 1'-6"
 TOTAL AREA: 6.8 Sq.Ft.
 BORDER TYPE: FLUSH
 RECESS: 0.47"
 WIDTH: 0.63"
 RADII: 1.5"
 NO. Z BARS: 1
 LENGTH:

BACKG COLOR: Orange
 COPY COLOR: Black

DESIGN BY: K. BISBY
 PROJECT ID: U-5132
 CHECKED BY: M. HOWELL
 DIV: 3
 DATE: Feb 24, 2011

USE NOTES: 2,4
 1. Legend and border shall be direct applied Type III reflective sheeting.
 2. Legend and border shall be direct applied non-reflective sheeting.
 3. Shields shall be Type III reflective sheeting on 0.032" (0.8mm) aluminum and demountable.
 4. Background shall be Type III 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:

Letter locations are panel edge to lower left corner

E	L	L	I	S	B	L	V	D	Series/Size Text Length
7.6	11.7	15.6	19.5	21.3	24.7	30.7	35.1	38.5	38.8

FILENAME: U-5132 DETOUR SIGN DESIGN NORTH CAROLINA D.O.T. SIGN DETAIL

SIGN NUMBER: DET2
 TYPE: D
 QUANTITY: 1
 SIGN WIDTH: 3'-0"
 HEIGHT: 1'-0"
 TOTAL AREA: 3.0 Sq.Ft.
 BORDER TYPE: FLUSH
 RECESS: 0.47"
 WIDTH: 0.63"
 RADII: 1.5"
 NO. Z BARS: 1
 LENGTH:

BACKG COLOR: Orange
 COPY COLOR: Black

DESIGN BY: K. BISBY
 PROJECT ID: U-5132
 CHECKED BY: M. HOWELL
 DIV: 3
 DATE: Feb 24, 2011

USE NOTES: 2,4
 1. Legend and border shall be direct applied Type III reflective sheeting.
 2. Legend and border shall be direct applied non-reflective sheeting.
 3. Shields shall be Type III reflective sheeting on 0.032" (0.8mm) aluminum and demountable.
 4. Background shall be Type III 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:

Letter locations are panel edge to lower left corner

E	L	L	I	S	B	L	V	D	Series/Size Text Length
5.1	7.8	10.4	13	14.2	16.5	20.5	23.4	25.7	25.9

FILENAME: U-5132 DETOUR SIGN DESIGN NORTH CAROLINA D.O.T. SIGN DETAIL

SIGN NUMBER: DET3
 TYPE: D
 QUANTITY: 1
 SIGN WIDTH: 3'-0"
 HEIGHT: 1'-6"
 TOTAL AREA: 4.5 Sq.Ft.
 BORDER TYPE: FLUSH
 RECESS: 0.47"
 WIDTH: 0.63"
 RADII: 1.5"
 NO. Z BARS: 1
 LENGTH:

BACKG COLOR: Orange
 COPY COLOR: Black

DESIGN BY: N. HARRIS
 PROJECT ID: U-5132
 CHECKED BY: K. BISBY
 DIV: 3
 DATE: Jun 16, 2011

USE NOTES: 2,4
 1. Legend and border shall be direct applied Type III reflective sheeting.
 2. Legend and border shall be direct applied non-reflective sheeting.
 3. Shields shall be Type III reflective sheeting on 0.032" (0.8mm) aluminum and demountable.
 4. Background shall be Type III 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:

Letter locations are panel edge to lower left corner

N	C	2	4	Series/Size Text Length					
10.8	13.9	16.1	20.1	14.4					
S	E	R	V	I	C	E	R	D	Series/Size Text Length
4.6	7.5	10.2	12.8	15.8	17.2	20.2	22.3	26.3	26.9

FILENAME: U-5132 DETOUR SIGN DESIGN NORTH CAROLINA D.O.T. SIGN DETAIL

SIGN NUMBER: DET4
 TYPE: D
 QUANTITY: 1
 SIGN WIDTH: 4'-6"
 HEIGHT: 2'-0"
 TOTAL AREA: 9.0 Sq.Ft.
 BORDER TYPE: FLUSH
 RECESS: 0.47"
 WIDTH: 0.63"
 RADII: 1.5"
 NO. Z BARS: 1
 LENGTH:

BACKG COLOR: Orange
 COPY COLOR: Black

DESIGN BY: N. HARRIS
 PROJECT ID: U-5132
 CHECKED BY: K. BISBY
 DIV: 3
 DATE: Jun 16, 2011

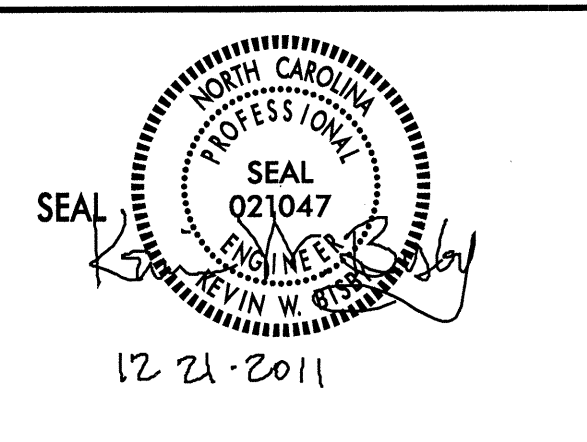
USE NOTES: 2,4
 1. Legend and border shall be direct applied Type III reflective sheeting.
 2. Legend and border shall be direct applied non-reflective sheeting.
 3. Shields shall be Type III reflective sheeting on 0.032" (0.8mm) aluminum and demountable.
 4. Background shall be Type III reflective sheeting.
 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:

Letter locations are panel edge to lower left corner

N	C	2	4	Series/Size Text Length					
16.2	20.8	24.2	30.2	34.1					
S	E	R	V	I	C	E	R	D	Series/Size Text Length
6.8	11.2	15.3	19.2	23.8	25.8	30.4	33.4	39.4	43.8

FILENAME: U-5132 DETOUR SIGN DESIGN NORTH CAROLINA D.O.T. SIGN DETAIL

PLANS PREPARED BY:
RK&K
 RUMMEL, KLEPPER & KAHL, LLP
 900 RIDGEFIELD DRIVE SUITE 350
 RALEIGH, NORTH CAROLINA 27609-3960
 NC LICENSE NO. F-0112 (919) 878-9560
 FOR
 THE DIVISION OF HIGHWAYS



SIGN DESIGNS

SCALE: NONE		REVISIONS
DATE: 12/2011		
DWG. BY: NH		
DESIGN BY: MAC		
REVIEWED BY: KWB		

12/20/2011 10:11 AM \\TrafficControl\TCP\100%\u5132_tcp_tcp31.dgn

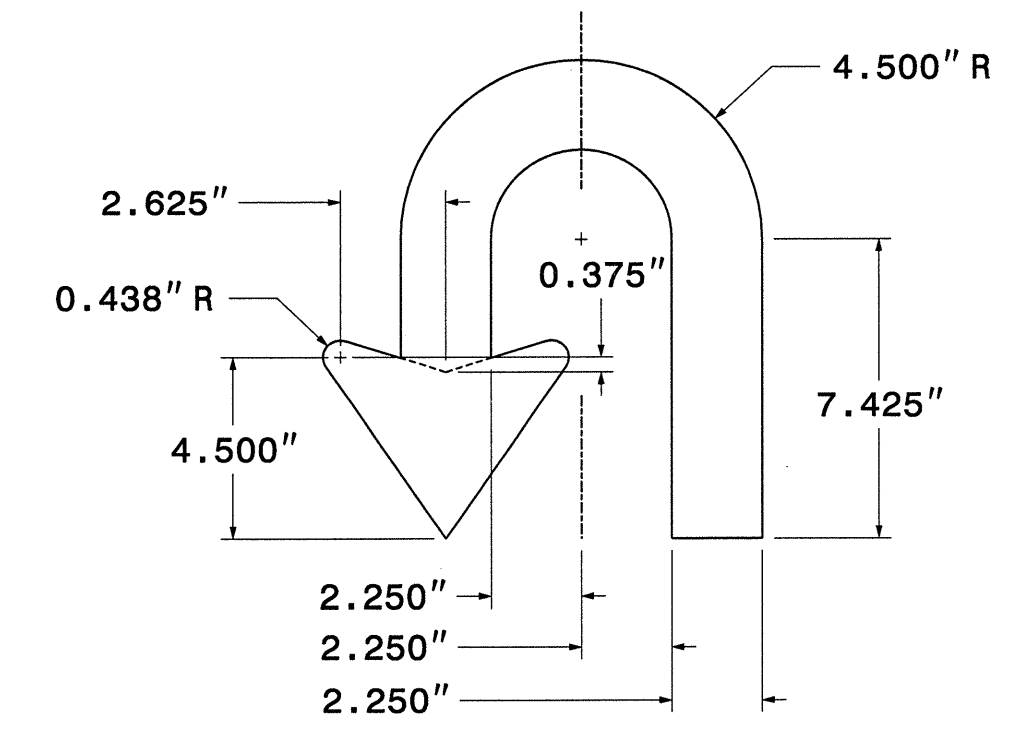
SIGN NUMBER: DETS TYPE: D QUANTITY: 1 SIGN WIDTH: 2'-0" HEIGHT: 2'-0" TOTAL AREA: 4.0 Sq.Ft. BORDER TYPE: FLUSH RECESS: 0.47" WIDTH: 0.63" RADII: 1.5" NO. Z BARS: LENGTH:	BACKG COLOR: Orange COPY COLOR: Black SYMBOL Return	DESIGN BY: N. HARRIS PROJECT ID: U-5132 CHECKED BY: K. BISBY DIV: 3 DATE: Jun 17, 2011
---	--	--

SYMBOL	X	Y	WID	HT
Return	6.5	6	10.9	11.9

MAT'L: 0.063" (1.6 mm) ALUMINUM	USE NOTES: 2,4,6 1. Legend and border shall be direct applied Type III reflective sheeting. 2. Legend and border shall be direct applied non-reflective sheeting. 3. Shields shall be Type III reflective sheeting on 0.032" (0.8mm) aluminum and demountable. 4. Background shall be Type III 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:
---------------------------------	---

LETTER POSITIONS										
Letter locations are panel edge to lower left corner										
										Series/Size Text Length

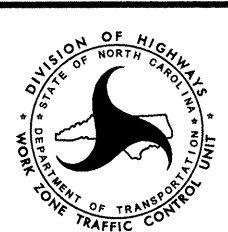
FILENAME: U-5132 DETOUR SIGN DESIGN



DETAIL OF 6" U-TURN ARROW

12/20/2011 R:\TrafficControl\TCP\100\U5132_tcp_31A.dgn

PLANS PREPARED BY : RK&K RUMMEL, KLEPPER & KAHL, LLP 900 RIDGEFIELD DRIVE SUITE 350 RALEIGH, NORTH CAROLINA 27609-3960 NC LICENSE NO. F-0112 (919) 878-9560 FOR THE DIVISION OF HIGHWAYS		ARROW DESIGNS							
		SCALE: NONE DATE: 12/2011 DWG. BY: NH DESIGN BY: MAC REVIEWED BY: KWB	REVISIONS <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>						



CADD FILE