

CITY OF GOLDSBORO

PLAN FOR PROPOSED  
TRAFFIC CONTROL, MARKING & DELINEATION  
WAYNE COUNTY

PROJECT REFERENCE NO. U-3609A	SHEET NO. TCP-1
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**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
1101.04	TEMPORARY SHOULDER CLOSURES
1101.11	TRAFFIC CONTROL DESIGN TABLES
1110.01	STATIONARY WORK ZONE SIGNS
1110.02	PORTABLE WORK ZONE SIGNS
1115.01	FLASHING ARROW PANELS
1130.01	DRUMS
1135.01	CONES
1145.01	BARRICADES
1150.01	FLAGGING DEVICES
1160.01	TEMPORARY CRASH CUSHION
1170.01	PORTABLE CONCRETE BARRIER
1180.01	SKINNY-DRUM
1205.01	PAVEMENT MARKINGS - LINE TYPES & OFFSETS
1205.02	PAVEMENT MARKINGS - 2 LANE & MULTILANE ROADWAYS
1205.04	PAVEMENT MARKINGS - INTERSECTIONS
1205.05	PAVEMENT MARKINGS - TURN LANES
1205.06	PAVEMENT MARKINGS - THRU LANE DROPS
1205.08	PAVEMENT MARKINGS - ARROW SYMBOLS, WORD SYMBOLS, Etc
1205.09	PAVEMENT MARKINGS - PAINTED ISLANDS
1250.01	PAVEMENT MARKER SPACING
1251.01	RAISED PAVEMENT MARKERS - (PERMANENT AND TEMPORARY)

**INDEX OF SHEETS**

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TCP-1	LIST OF APPLICABLE ROADWAY STANDARD DRAWINGS, LEGEND AND INDEX OF SHEETS
TCP-2	PROJECT NOTES
TCP-3	PHASING
TCP-4-TCP-10	TRAFFIC CONTROL PLANS
TCP-11	ADVANCED WORK ZONE WARNING SIGNS

**TEMPORARY PAVEMENT MARKING SCHEDULE**

PAVEMENT MARKING LINES	
PA - PAINT (4" WHITE, 2X)	EDGELINE
PB - PAINT (4" YELLOW, 2X)	EDGELINE
PC - PAINT (4" WHITE, 2X)	4" X 10' SKIP
PD - PAINT (4" WHITE, 2X)	4" X 2' MINISKIP
PE - PAINT (4" WHITE, 2X)	SOLID LANE LINE
PF - PAINT (4" YELLOW, 2X)	4" X 10' SKIP
PG - PAINT (4" YELLOW, 2X)	4" X 2' MINISKIP
PH - PAINT (4" YELLOW, 2X)	SINGLE CENTER LINE
PI - PAINT (4" YELLOW, 2X)	DOUBLE CENTER LINE
PV - PAINT (8" YELLOW, 2X)	DIAGONAL
P2 - PAINT (24" WHITE, 2X)	STOP BAR

PAVEMENT MARKING SYMBOLS	
QA - PAINT 2X (LEFT TURN ARROW)	
QC - PAINT 2X (STRAIGHT ARROW)	

**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
  - 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

APPROVED: DATE:	PLAN PREPARED BY: Kimley-Horn and Associates, Inc.
SEAL 	CHUCK NUCKOLS PROJECT ENGINEER JASON PAGE DESIGN ENGINEER DAVID SHINBARA DESIGN TECHNICIAN

TIP PROJECT: U-3609A BERKELEY BLVD WIDENING  
 1/17/2013 K:\RAL\_Roadway\01746003 (Berkeley Blvd\Plan\TCP\01746003\_top\_ldgn

# PROJECT NOTES

PROJ. REFERENCE NO.	SHEET NO.
U-3609A	TCP-2
Kimley-Horn and Associates, Inc. P.O. BOX 33068 RALEIGH, N.C. 27636-3068	

## GENERAL NOTES

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

- A) THE DETAIL DRAWINGS, STANDARD DETAIL DRAWINGS, AND ROADWAY STANDARD DRAWINGS MAY REQUIRE MODIFICATIONS TO FIT FIELD CONDITIONS, SUCH AS WHEN PHYSICAL DIMENSIONS ARE NOT ATTAINABLE, OR WHEN MORE THAN ONE DRAWING IS APPLIED SIMULTANEOUSLY RESULTING IN DUPLICATE SIGNING, OR UNDESIRED OVERLAPPING OF DEVICES. WHEN THESE SITUATIONS ARISE, THE CONTRACTOR AT THE DIRECTION OF THE ENGINEER SHALL BE RESPONSIBLE FOR ADAPTING THE TRAFFIC CONTROL PLAN TO FIELD CONDITIONS TO PROVIDE SAFE AND EFFICIENT TRAFFIC MOVEMENT. MODIFICATIONS MAY INCLUDE; MOVING, SUPPLEMENTING, COVERING, OR REMOVAL OF DEVICES.

### TIME RESTRICTIONS

- B) DO NOT CLOSE OR NARROW TRAVEL LANES AS FOLLOWS:

ROAD NAME	DAY AND TIME RESTRICTIONS
1. BERKELEY BLVD.	MONDAY THRU FRIDAY 6:00 A.M. - 9:00 A.M. AND 4:00 PM - 7:00 PM
2. NEW HOPE RD.	MONDAY THRU FRIDAY 6:00 A.M. - 9:00 A.M. AND 4:00 PM - 7:00 PM
3. ROYALL AVE.	MONDAY THRU FRIDAY 6:00 A.M. - 9:00 A.M. AND 4:00 PM - 7:00 PM

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

ROAD NAME	DAY AND TIME RESTRICTIONS
1. BERKELEY BLVD.	ANYTIME
2. NEW HOPE RD.	ANYTIME
3. ROYALL AVE.	ANYTIME

### HOLIDAY

1. FOR ANY EVENT THAT CREATES UNUSUALLY HIGH TRAFFIC VOLUMES, AS DIRECTED BY THE ENGINEER.
2. FOR NEW YEAR'S, BETWEEN THE HOURS OF 6:00 A.M. DECEMBER 31<sup>ST</sup> TO 7:00 P.M. JANUARY 2ND. IF NEW YEAR'S DAY IS ON A SATURDAY OR A SUNDAY, THEN UNTIL 7:00 P.M. THE FOLLOWING TUESDAY.
3. FOR EASTER, BETWEEN THE HOURS OF 6:00 A.M. THURSDAY AND 7:00 P.M. MONDAY.
4. FOR MEMORIAL DAY, BETWEEN THE HOURS OF 6:00 A.M. FRIDAY TO 7:00 P.M. TUESDAY.
5. FOR INDEPENDENCE DAY, BETWEEN THE HOURS OF 6:00 A.M. THE DAY BEFORE INDEPENDENCE DAY AND 7:00 P.M. THE DAY AFTER INDEPENDENCE DAY.  
  
IF INDEPENDENCE DAY IS ON A SATURDAY OR SUNDAY, THEN BETWEEN THE HOURS OF 6:00 A.M. THE THURSDAY BEFORE INDEPENDENCE DAY AND 7:00 P.M. THE TUESDAY AFTER INDEPENDENCE DAY.
6. FOR LABOR DAY, BETWEEN THE HOURS OF 6:00 A.M. FRIDAY TO 7:00 P.M. TUESDAY.
7. FOR THANKSGIVING, BETWEEN THE HOURS OF 6:00 A.M. TUESDAY TO 7:00 P.M. MONDAY.
8. FOR CHRISTMAS, BETWEEN THE HOURS OF 6:00 A.M. THE FRIDAY BEFORE THE WEEK OF CHRISTMAS DAY AND 7:00 P.M. THE FOLLOWING MONDAY AFTER THE WEEK OF CHRISTMAS.

### LANE & SHOULDER CLOSURE

- D) 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.
- E) 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.
- F) 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.
- G) DO NOT INSTALL MORE THAN ONE LANE CLOSURE IN ANY ONE DIRECTION.

### LANE AND SHOULDER CLOSURE REQUIREMENTS

- H) 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.
- I) 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.

### PAVEMENT EDGE DROP OFF REQUIREMENTS

- J) 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:
- | POSTED SPEED LIMIT | MINIMUM OFFSET |
|--------------------|----------------|
| 40 OR LESS         | 15 FT          |
| 45 - 50            | 20 FT          |
- 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 CITY.
- K) DO NOT EXCEED A DIFFERENCE OF 1.5 INCHES IN ELEVATION BETWEEN OPEN LANES OF TRAFFIC. INSTALL ADVANCE WARNING "UNEVEN LANES" SIGNS (W8-11) 500 FT IN ADVANCE.

### TRAFFIC PATTERN ALTERATIONS

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

### SIGNING

- M) INSTALL ADVANCE WORK ZONE WARNING SIGNS WHEN WORK IS WITHIN 100 FT FROM THE EDGE OF TRAVEL LANE AND 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 CITY.
- N) THE CONTRACTOR WILL BE RESPONSIBLE FOR PERMANENT SIGNING.
- O) ENSURE ALL NECESSARY SIGNING IS IN PLACE PRIOR TO ALTERING ANY TRAFFIC PATTERN.
- P) INSTALL BLACK ON ORANGE "DIP" SIGNS (W8-2) 500 FT IN ADVANCE OF THE UNEVEN AREA.
- Q) INSTALL BLACK ON ORANGE "BUMP" SIGNS (W8-1) 500 FT IN ADVANCE OF THE UNEVEN AREA.

### TRAFFIC BARRIER

- R) 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.
- S) DO NOT PLACE BARRIER DIRECTLY ON ANY SURFACE OTHER THAN ASPHALT OR CONCRETE.
- T) 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 TRAFFIC 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.
- U) 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.
- V) 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.

- W) 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.
- X) 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:

### TRAFFIC CONTROL DEVICES

- Y) 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.
- Z) PLACE SETS OF THREE DRUMS PERPENDICULAR TO THE EDGE OF TRAVELWAY ON 500 FOOT CENTERS WHEN UNOPENED LANES ARE CLOSED TO TRAFFIC. THESE DRUMS SHALL BE IN ADDITION TO CHANNELIZING DEVICES.

### PAVEMENT MARKINGS AND MARKERS

- AA) INSTALL TEMPORARY PAVEMENT MARKINGS AND TEMPORARY PAVEMENT MARKERS ON INTERIM LAYERS OF PAVEMENT AS SHOWN IN THE PAVEMENT MARKING PLAN.
- BB) 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.
- CC) TIE PROPOSED PAVEMENT MARKING LINES TO EXISTING PAVEMENT MARKING LINES.
- DD) REMOVE/REPLACE ANY CONFLICTING/DAMAGED PAVEMENT MARKINGS AND MARKERS BY THE END OF EACH DAY'S OPERATION.
- EE) TRACE THE EDGE OF PROPOSED MONOLITHIC ISLANDS WITH THE PROPER COLOR PAVEMENT MARKING PRIOR TO INSTALLATION OF A PROPOSED MONOLITHIC ISLAND.

### MISCELLANEOUS

- FF) LAW ENFORCEMENT 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) 500 FT AND 1000 FT RESPECTIVELY IN ADVANCE OF THE UNEVEN AREAS. USE DRUMS TO DELINEATE THE EDGE OF ROADWAY ALONG UNPAVED AREAS.
- HH) PLACE DELINEATION DEVICES TO DELINEATE PROPOSED ISLANDS BEFORE INSTALLATION
- II) MAINTAIN ACCESS TO ALL RESIDENCES AND BUSINESSES AT ALL TIMES WITHIN THE PROJECT LIMIT.
- JJ) COORDINATE CLOSELY WITH SEYMOUR JOHNSON AIR FORCE BASE ABOUT ANY EVENTS AT THE BASE THAT MAY IMPACT PROPOSED BERKELEY BOULEVARD CONSTRUCTION PHASING.

APPROVED: _____	DATE: _____
SCALE:	REVISIONS
DATE: 09-26-11	
DWG. BY: DAS	
DESIGN BY: JJP	
REVIEWED BY: CAN	CADD FILE

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1/17/2013



# PHASING

PROJ. REFERENCE NO.	SHEET NO.
U-3609A	TCP-3
Kimley-Horn and Associates, Inc. P.O. BOX 33068 RALEIGH, N.C. 27636-3068	

## PHASE I

- STEP 1) PRIOR TO BEGINNING ANY CONSTRUCTION ACTIVITY, IN ACCORDANCE WITH NCDOT STANDARD DRAWING 1101.01, THE CONTRACTOR SHALL INSTALL WORK ZONE ADVANCE WARNING SIGNS AS SHOWN ON SHEET TCP-11.
- WHILE MAINTAINING EXISTING TRAFFIC ON BERKELEY BOULEVARD AND ACCESS TO ALL INTERSECTING ROADWAYS AND DRIVEWAYS, USING NCDOT ROADWAY STANDARD DRAWING NO. 1101.02 FOR TEMPORARY LANE CLOSURES, THE CONTRACTOR SHALL:
- STEP 2) CONSTRUCT TEMPORARY SIGNAL AT BERKELEY BOULEVARD AND ROYALL AVENUE.  
CONSTRUCT TEMPORARY SIGNAL AT BERKELEY BOULEVARD AND NEW HOPE ROAD.
- STEP 3) IN ACCORDANCE WITH NCDOT STANDARD DRAWINGS NO. 1205.01,02, 04,05,06,08, & 09, REMOVE EXISTING PAVEMENT MARKINGS AND INSTALL TEMPORARY PAVEMENT MARKINGS FROM -L- STA 22+75 TO -L- STA 38+50 AS SHOWN ON SHEETS TCP 4-6. SHIFT EXISTING TRAFFIC TO NEW TRAFFIC PATTERN.
- STEP 4) IN ACCORDANCE WITH NCDOT STANDARD DRAWINGS NO. 1261.01 AND 1261.02, INSTALL WATER-FILLED BARRIER FROM -L- STA 33+02 (35' LT) TO -L- STA 35+15 (8.5' LT) AS SHOWN ON SHEET TCP-5.
- STEP 5) INSTALL TEMPORARY SHORING NO. 1 FROM -L- STA 33+50 (2' RT) TO -L- STA (2' RT)33+80 AS SHOWN ON SHEET TCP-5.
- STEP 6) USING REQUIRED EROSION CONTROL MEASURES, CONSTRUCT THE NORTHERN PORTION OF THE PROPOSED BOX CULVERT AT -L- STA 33+65 AS SHOWN ON SHEET TCP-5 AND FOLLOWING THE CONSTRUCTION SEQUENCE SHOWN ON SHEET EC-12.
- STEP 7) INSTALL TEMPORARY SHORING NO. 2 FROM -L- STA 33+50 (2' LT) TO -L- STA 33+80 (2' LT) AS SHOWN ON SHEET TCP-5.
- CONSTRUCT PROPOSED BERKELEY BOULEVARD WIDENING SUCH AS DRAINAGE ITEMS, CONCRETE CURB AND GUTTER, AND PAVEMENT UP TO BUT NOT INCLUDING THE FINAL LAYER OF SURFACE COURSE PAVEMENT FROM -L- STA 14+67 TO -L- STA 18+32, -L- STA 32+98 TO -L- STA 71+20 AS SHOWN ON SHEETS TCP 4-7.

## PHASE II

- WHILE MAINTAINING EXISTING TRAFFIC ON BERKELEY BOULEVARD AND ACCESS TO ALL INTERSECTING ROADWAYS AND DRIVEWAYS, USING NCDOT ROADWAY STANDARD DRAWING NO. 1101.02 FOR TEMPORARY LANE CLOSURES, THE CONTRACTOR SHALL:
- STEP 1) CONSTRUCT FINAL SIGNAL AT BERKELEY BOULEVARD AND ROYALL AVENUE.
- STEP 2) IN ACCORDANCE WITH NCDOT STANDARD DRAWINGS NO. 1205.01,02, 04,05,06,08, & 09, REMOVE EXISTING PAVEMENT MARKINGS AND INSTALL TEMPORARY PAVEMENT MARKINGS FROM -L- STA 20+00 TO -L- STA 39+50 AS SHOWN ON SHEETS TCP 8, 9, AND 10. SHIFT EXISTING BERKELEY BOULEVARD TRAFFIC TO NEW TRAFFIC PATTERN.
- STEP 3) IN ACCORDANCE WITH NCDOT STANDARD DRAWINGS NO. 1261.01 AND 1261.02, INSTALL WATER-FILLED BARRIER ON BERKELEY BOULEVARD FROM -L- STA 33+08 (30' RT) TO -L- STA 36+25 (12.5' RT) AS SHOWN ON SHEET TCP-9.

## PHASE II (CONT'D)

- STEP 4) USING REQUIRED EROSION CONTROL MEASURES, BEGIN CONSTRUCTION ON THE SOUTHERN PORTION OF PROPOSED BOX CULVERT AT -L- STA 33+65 AS SHOWN ON SHEET TCP-9 AND FOLLOWING THE CONSTRUCTION SEQUENCE SHOWN ON SHEET EC-12.
- STEP 5) CONSTRUCT PROPOSED BERKELEY BOULEVARD WIDENING SUCH AS DRAINAGE ITEMS, CONCRETE CURB AND GUTTER, AND PAVEMENT UP TO BUT NOT INCLUDING THE FINAL LAYER OF SURFACE COURSE PAVEMENT FROM -L- STA 33+08 TO -L- STA 34+22.
- COMPLETE CONSTRUCTION ON THE SOUTHERN PORTION OF THE PROPOSED BOX CULVERT AT -L- STA 33+65 AS SHOWN ON SHEET TCP-9.

## PHASE III

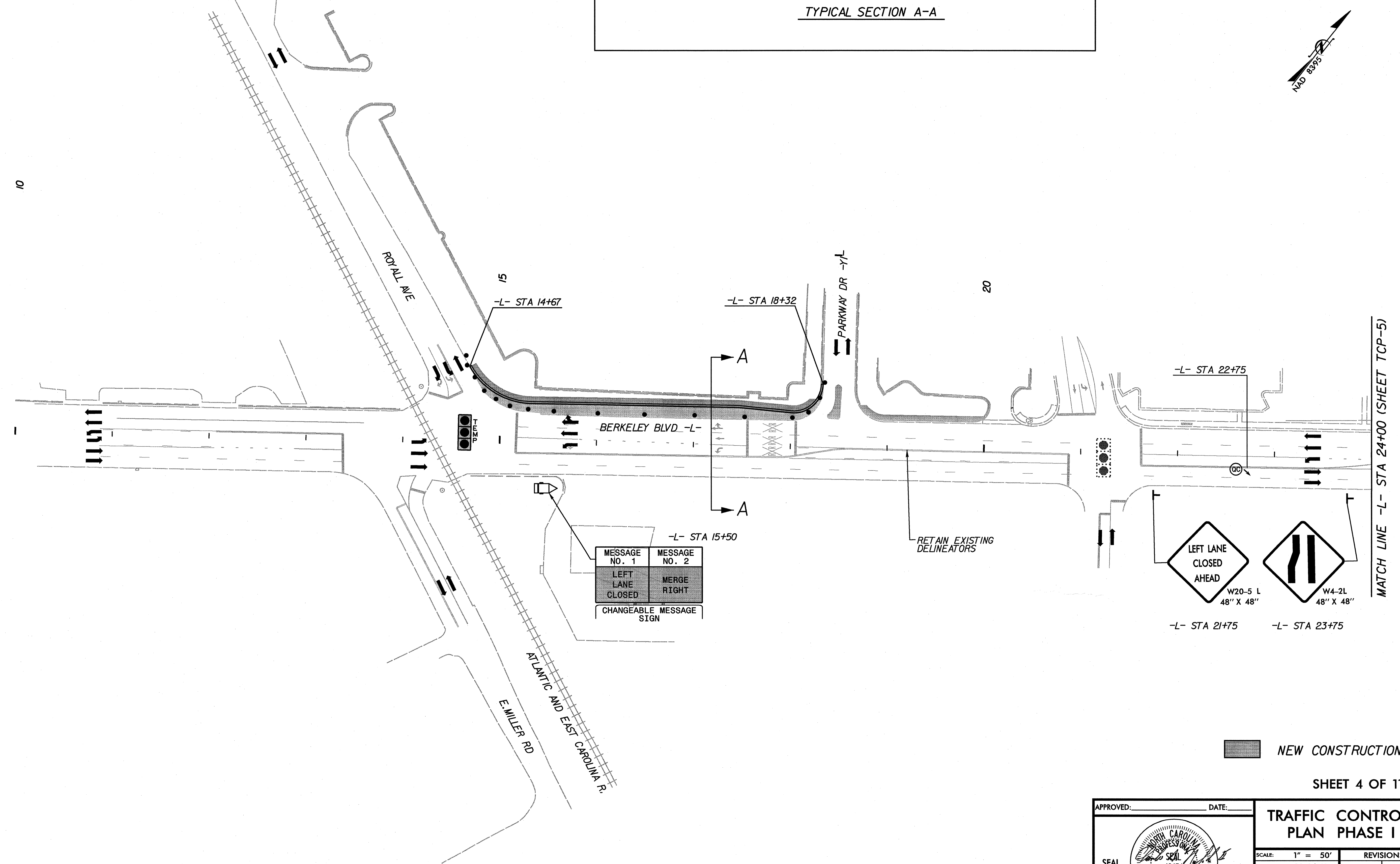
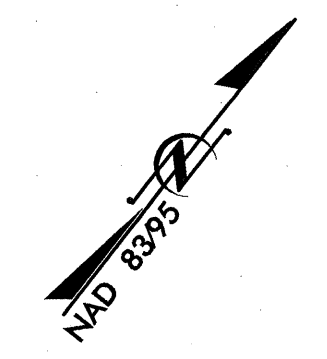
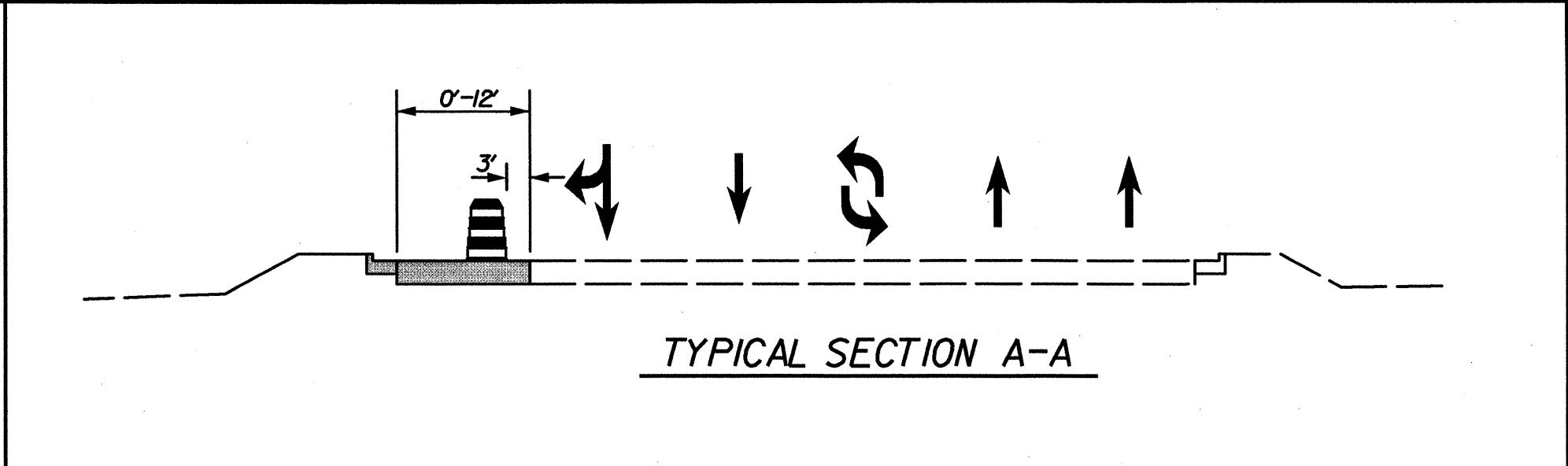
- WHILE MAINTAINING EXISTING TRAFFIC ON BERKELEY BOULEVARD AND ACCESS TO ALL INTERSECTING ROADWAYS AND DRIVEWAYS, USING NCDOT ROADWAY STANDARD DRAWING NO. 1101.02 FOR TEMPORARY LANE CLOSURES, THE CONTRACTOR SHALL:
- STEP 1) PLACE FINAL LAYER OF SURFACE COURSE PAVEMENT ON BERKELEY BOULEVARD WIDENING FROM -L- STA 14+67 TO -L- STA 18+32, AND -L- STA 32+98 TO -L- STA 71+20
- MILL AND RESURFACE EXISTING PAVEMENT ON BERKELEY BOULEVARD FROM -L- STA 27+50 TO -L- STA 67+33.97 AND FROM -L- STA 67+75.23 TO -L- STA 71+75.00.
- CONSTRUCT FINAL SIGNAL AT BERKELEY BOULEVARD AND NEW HOPE ROAD.
- STEP 2) IN ACCORDANCE WITH NCDOT STANDARD DRAWINGS NO. 1205.01,02, 04,05,06,08,09, & 1250.01, PLACE PERMANENT PAVEMENT MARKINGS AND MARKERS ON BERKELEY BOULEVARD AS SHOWN ON SHEETS PM-1 THRU PM-4.
- ACTIVATE ALL FINAL SIGNALS AND PLACE TRAFFIC IN FINAL TRAFFIC PATTERN.
- UPON COMPLETION OF ALL CONSTRUCTION OPERATIONS, REMOVE ALL TRAFFIC CONTROL DEVICES AND TEMPORARY SIGNING.

SHEET 3 OF 11

APPROVED: _____	DATE: _____
SCALE: 1" = 50'	REVISIONS
DATE: 09-26-11	
DWG. BY: DAS	
DESIGN BY: JJP	
REVIEWED BY: CAN	CADD FILE

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1/17/2013

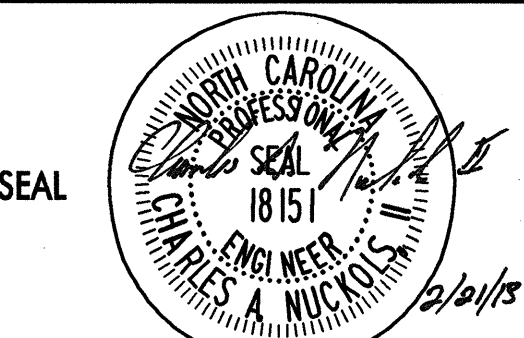


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2/21/2013

NEW CONSTRUCTION

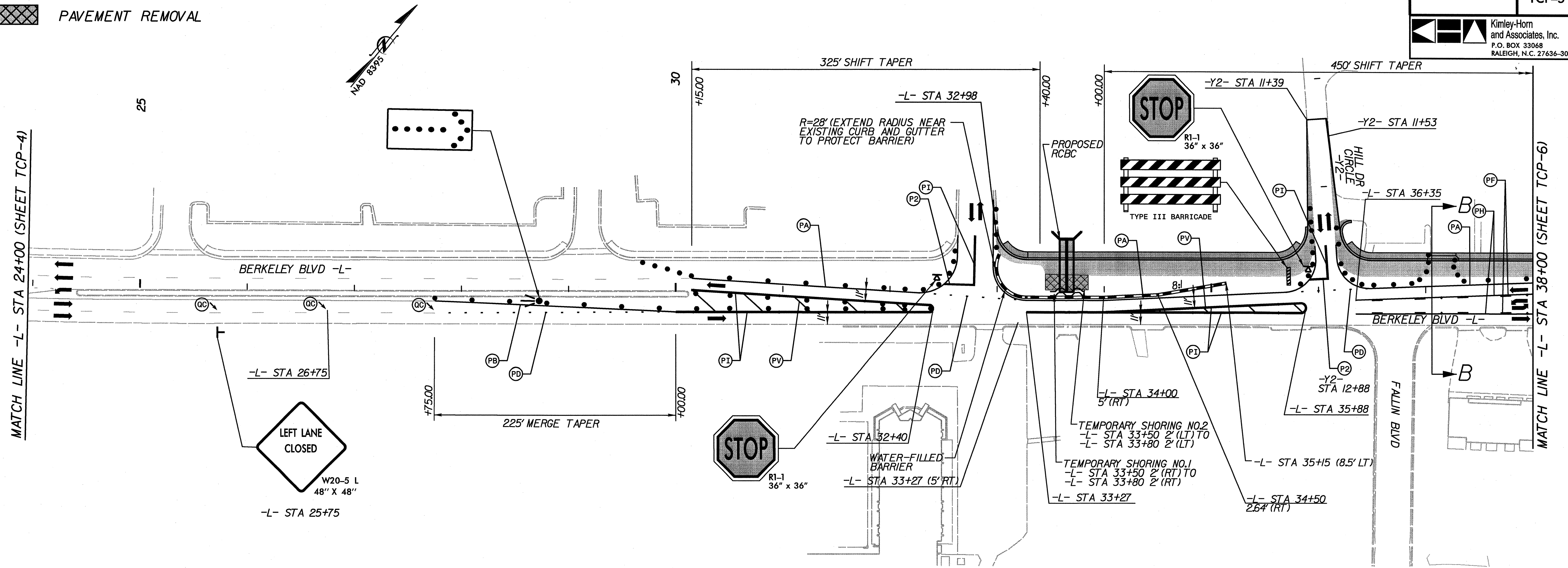
SHEET 4 OF 11

APPROVED: _____	DATE: _____	<b>TRAFFIC CONTROL PLAN PHASE I</b>	
			
		DATE: 09-26-11	
		DWG. BY: DAS	
DESIGN BY: JJP		REVIEWED BY: CAN	CADD FILE



NEW CONSTRUCTION  
PAVEMENT REMOVAL

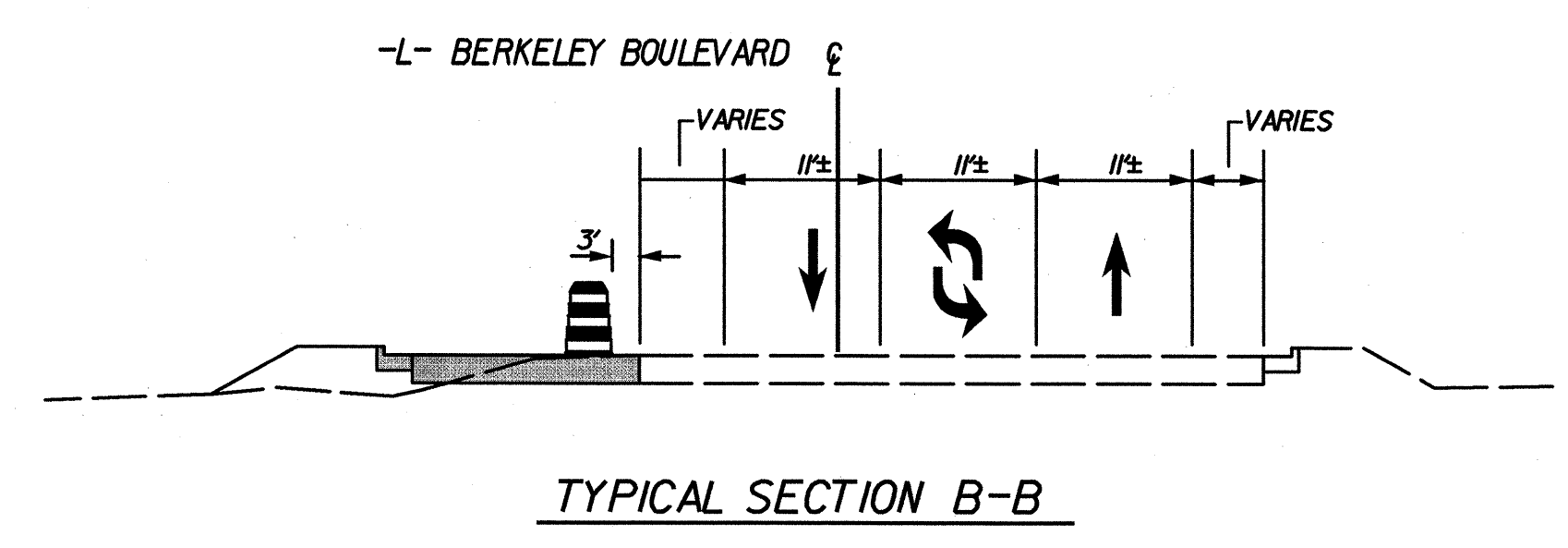
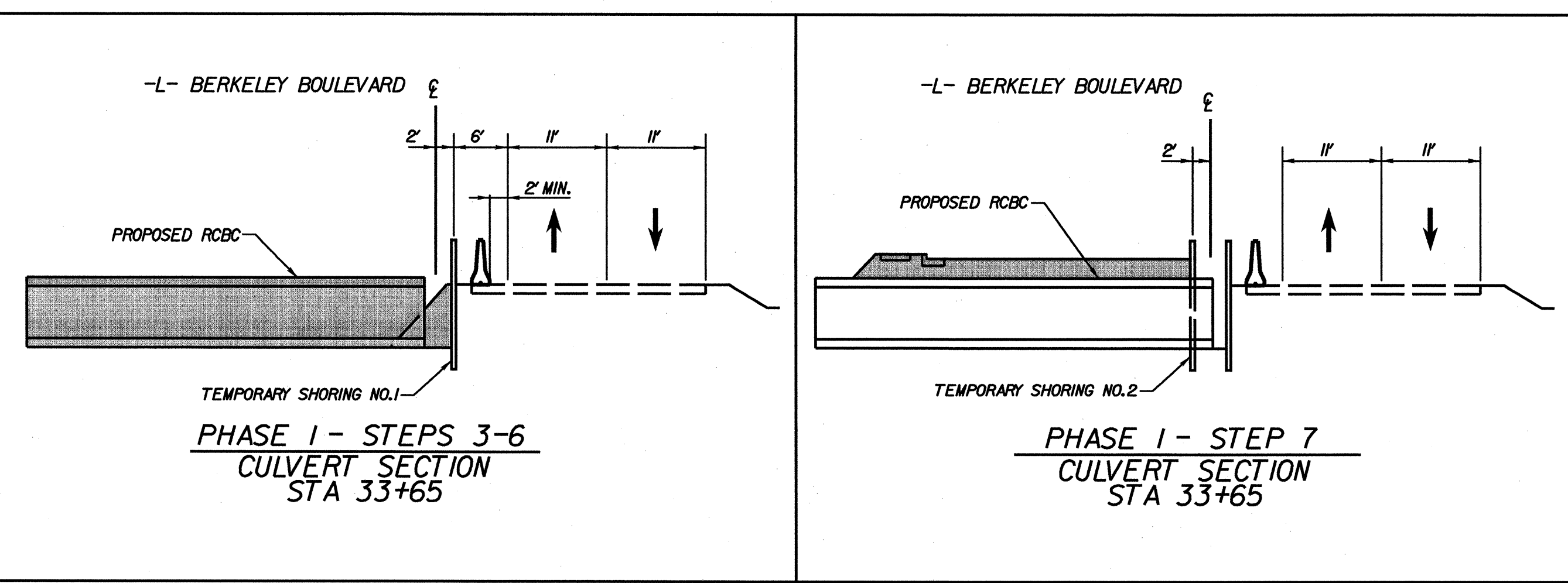
PROJ. REFERENCE NO. U-3609A SHEET NO. TCP-5  
Kimley-Horn and Associates, Inc.  
P.O. BOX 33068  
RALEIGH, N.C. 27636-3068



TEMPORARY SHORING NOTES

**TEMPORARY SHORING NO. 1**  
FOR TEMPORARY SHORING AND POSITIVE PROTECTION FOR TEMPORARY SHORING, SEE PLANS AND TEMPORARY SHORING PROVISION.  
BEFORE BEGINNING TEMPORARY SHORING DESIGN OR CONSTRUCTION, SURVEY EXISTING GROUND ELEVATIONS IN THE VICINITY OF SHORING LOCATIONS TO DETERMINE ACTUAL SHORING HEIGHTS.  
DO NOT USE A TEMPORARY WALL FOR TEMPORARY SHORING FROM STATION -L- 33+50 (2' RT) TO -L- 33+80 (2' RT).  
AT THE CONTRACTOR'S OPTION, USE STANDARD TEMPORARY SHORING FOR TEMPORARY SHORING FROM STATION -L- 33+50 (2' RT) TO -L- 33+80 (2' RT).  
DESIGN TEMPORARY SHORING FROM STATION -L- 33+50 (2' RT) TO -L- 33+80 (2' RT) FOR THE FOLLOWING ASSUMED SOIL PARAMETERS AND GROUNDWATER ELEVATION:  
UNIT WEIGHT = 120 PCF  
FRICTION ANGLE = 30 DEGREES  
COHESION = 0 PSF  
LIMITED SUBSURFACE INFORMATION IS AVAILABLE IN THE VICINITY OF THE TEMPORARY SHORING FROM STATION -L- 33+50 (2' RT) TO -L- 33+80 (2' RT). THE INFORMATION PROVIDED FOR DESIGN WAS ASSUMED AND MAY NOT BE APPLICABLE TO THE ACTUAL SITE CONDITIONS ENCOUNTERED DURING CONSTRUCTION.

**TEMPORARY SHORING NO. 2**  
FOR TEMPORARY SHORING AND POSITIVE PROTECTION FOR TEMPORARY SHORING, SEE PLANS AND TEMPORARY SHORING PROVISION.  
BEFORE BEGINNING TEMPORARY SHORING DESIGN OR CONSTRUCTION, SURVEY EXISTING GROUND ELEVATIONS IN THE VICINITY OF SHORING LOCATIONS TO DETERMINE ACTUAL SHORING HEIGHTS.  
DO NOT USE A TEMPORARY WALL FOR TEMPORARY SHORING FROM STATION -L- 33+50 (2' LT) TO -L- 33+80 (2' LT).  
AT THE CONTRACTOR'S OPTION, USE STANDARD TEMPORARY SHORING FOR TEMPORARY SHORING FROM STATION -L- 33+50 (2' LT) TO -L- 33+80 (2' LT).  
DESIGN TEMPORARY SHORING FROM STATION -L- 33+50 (2' LT) TO -L- 33+80 (2' LT) FOR THE FOLLOWING ASSUMED SOIL PARAMETERS AND GROUNDWATER ELEVATION:  
UNIT WEIGHT = 120 PCF  
FRICTION ANGLE = 30 DEGREES  
COHESION = 0 PSF  
LIMITED SUBSURFACE INFORMATION IS AVAILABLE IN THE VICINITY OF THE TEMPORARY SHORING FROM STATION -L- 33+50 (2' LT) TO -L- 33+80 (2' LT). THE INFORMATION PROVIDED FOR DESIGN WAS ASSUMED AND MAY NOT BE APPLICABLE TO THE ACTUAL SITE CONDITIONS ENCOUNTERED DURING CONSTRUCTION.



SHEET 5 OF 11

APPROVED: \_\_\_\_\_ DATE: \_\_\_\_\_

TRAFFIC CONTROL PLAN PHASE I

SCALE: 1" = 50'

DATE: 06-01-11

DWG. BY: DAS

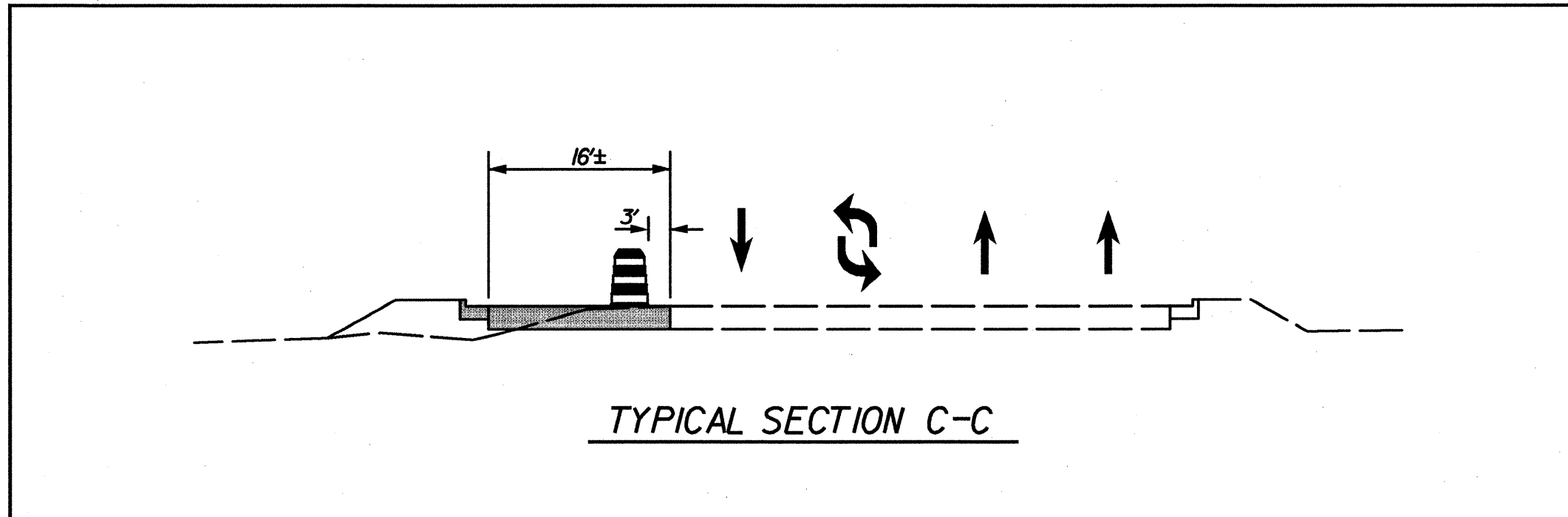
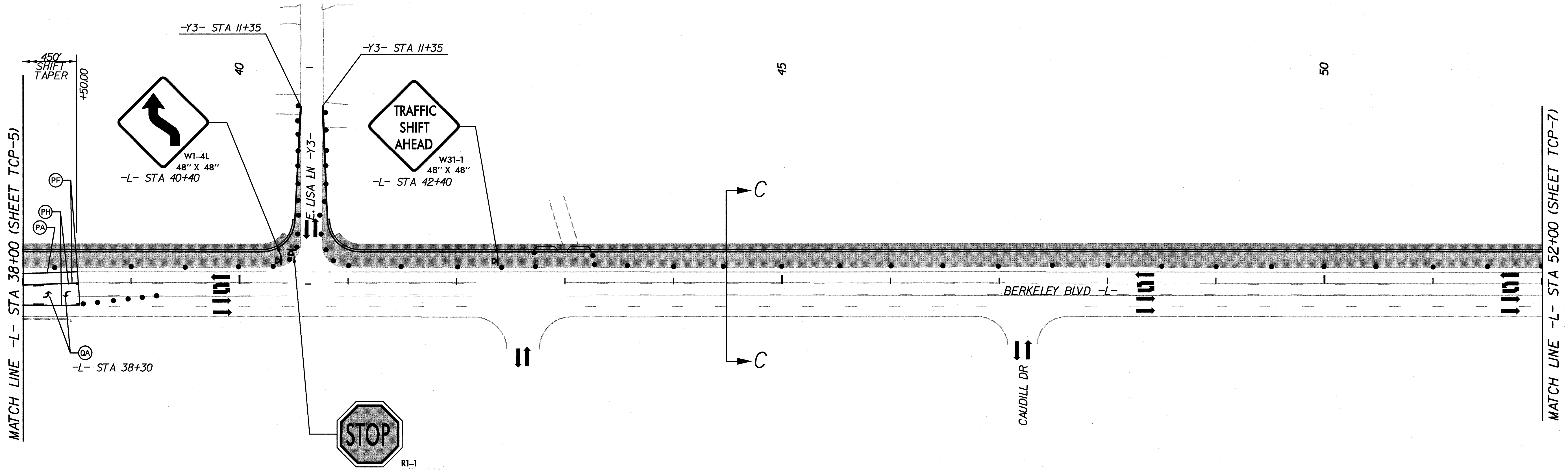
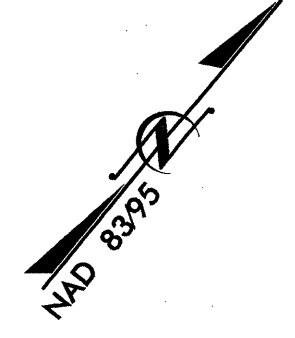
DESIGN BY: JJP

REVIEWED BY: CAN

REVISIONS

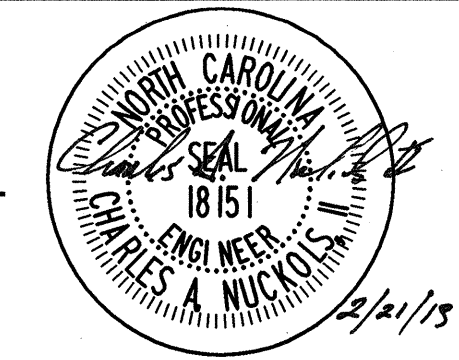
SEAL: [Professional Engineer Seal]

K:\RAL\_Roadway\011746003 (Berkeley Blvd)\Plan\TCP\011746003\_top\_5.dgn 2/26/2013



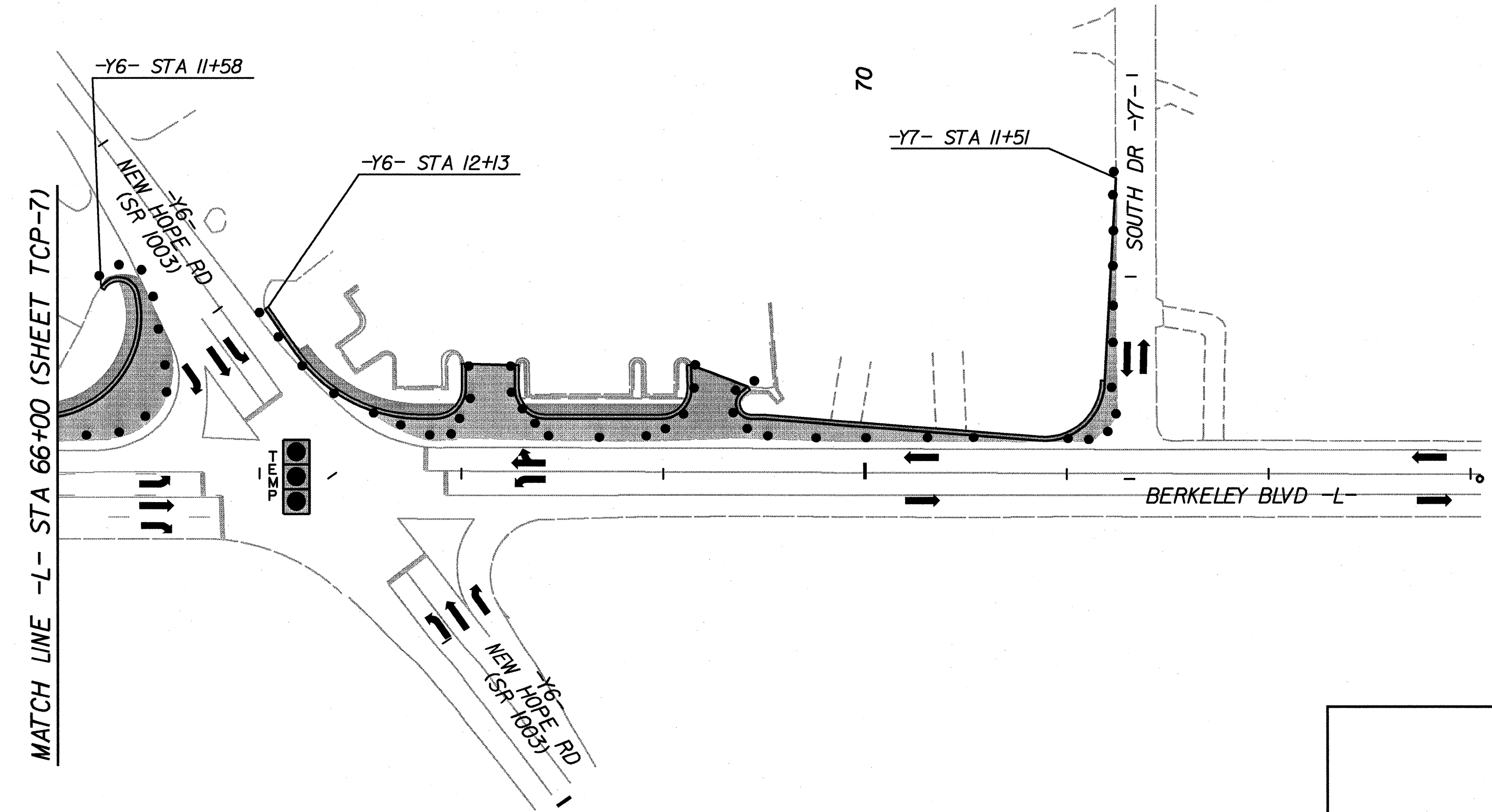
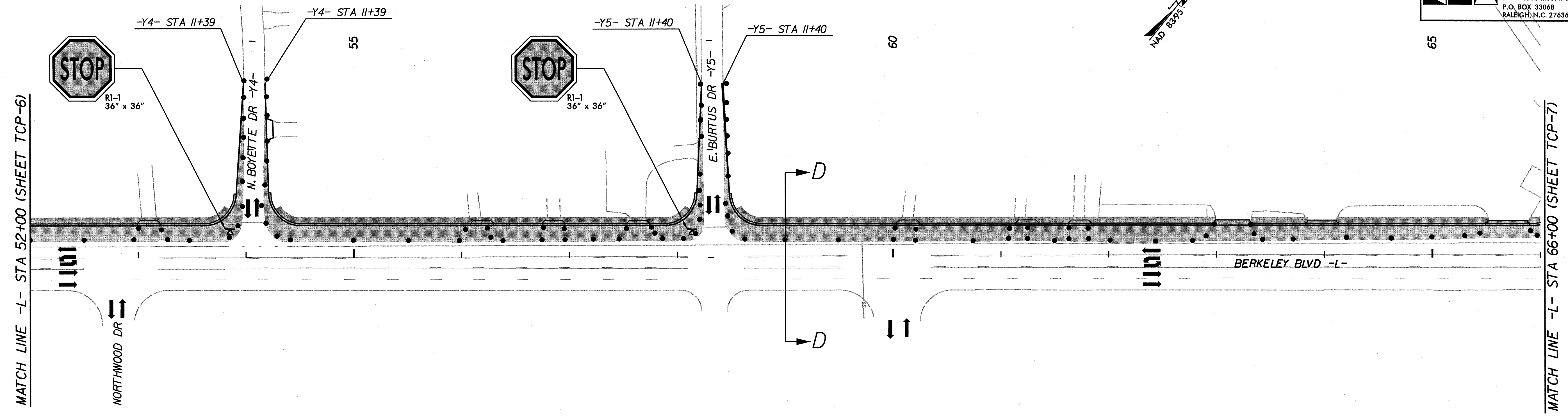
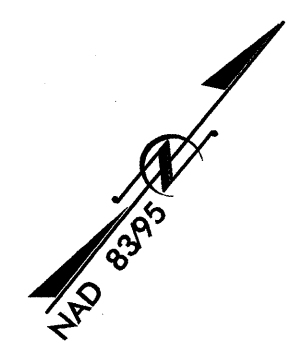
NEW CONSTRUCTION

SHEET 6 OF 11

APPROVED: _____	DATE: _____	<b>TRAFFIC CONTROL PLAN PHASE I</b>	
			
		DATE: 09-26-11	
DWG. BY: DAS			
DESIGN BY: JJP			
REVIEWED BY: CAN	CADD FILE:		

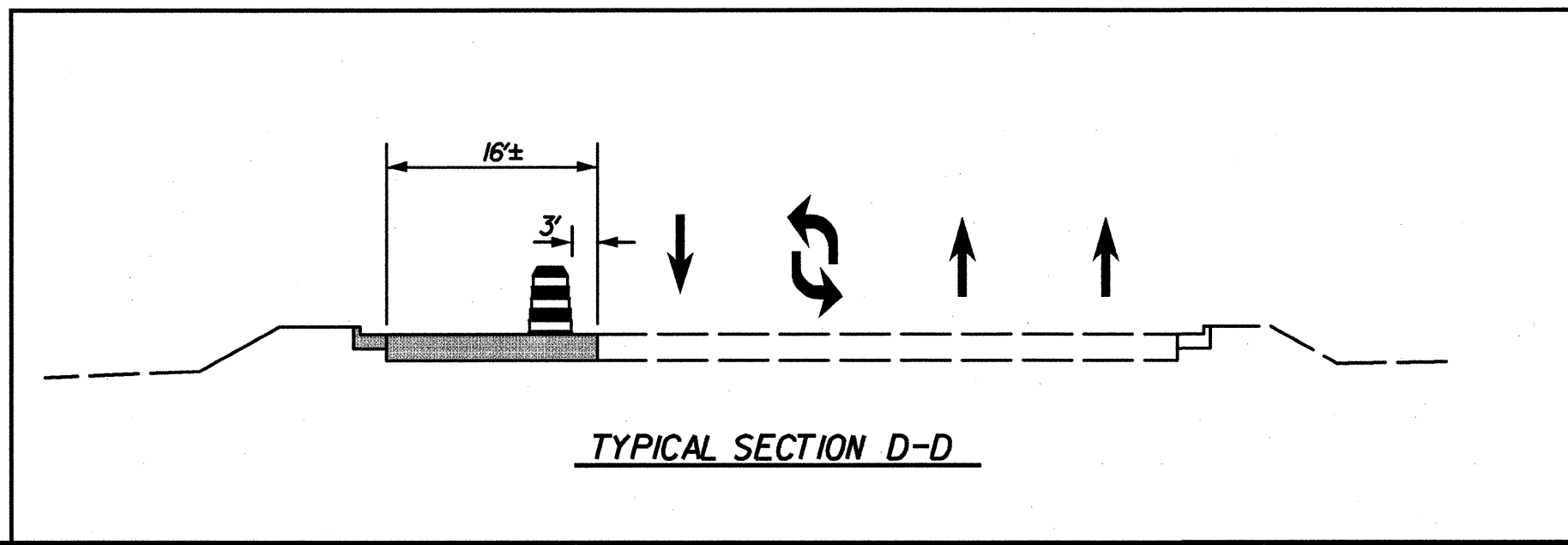
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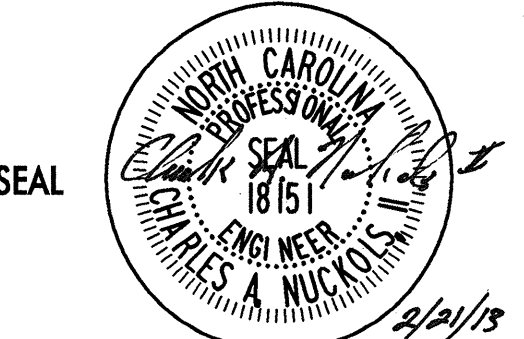




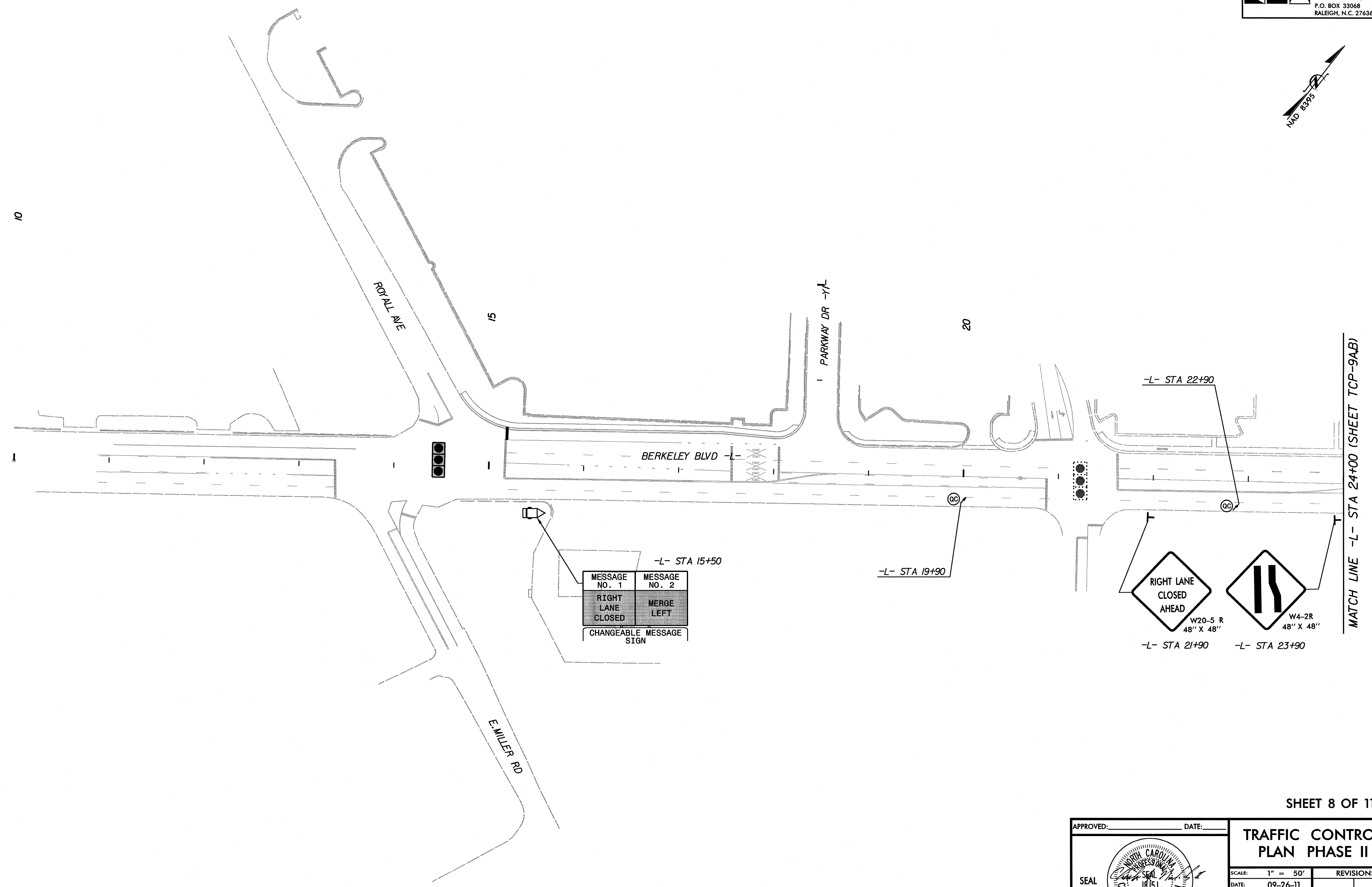
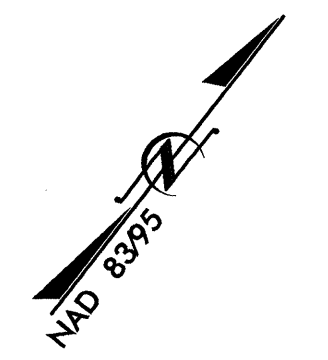
 NEW CONSTRUCTION

SHEET 7 OF 11



APPROVED: _____	DATE: _____
	
<b>TRAFFIC CONTROL PLAN PHASE I</b>	
SCALE: 1" = 50'	REVISIONS
DATE: 09-26-11	
DWG. BY: DAS	
DESIGN BY: JJP	
REVIEWED BY: CAN	

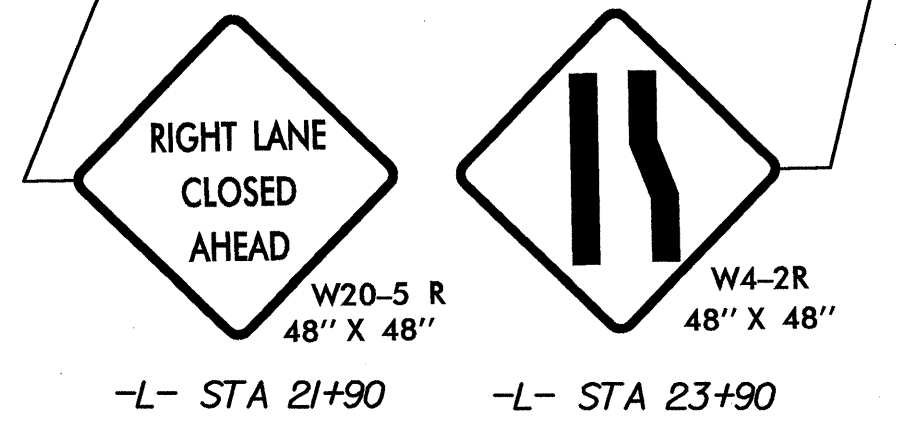
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-L- STA 15+50

MESSAGE NO. 1	MESSAGE NO. 2
RIGHT LANE CLOSED	MERGE LEFT

CHANGEABLE MESSAGE SIGN

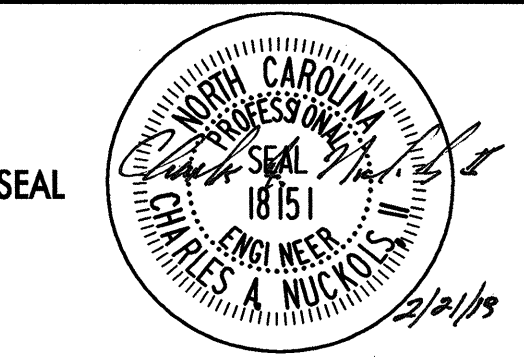


MATCH LINE -L- STA 24+00 (SHEET TCP-9AB)

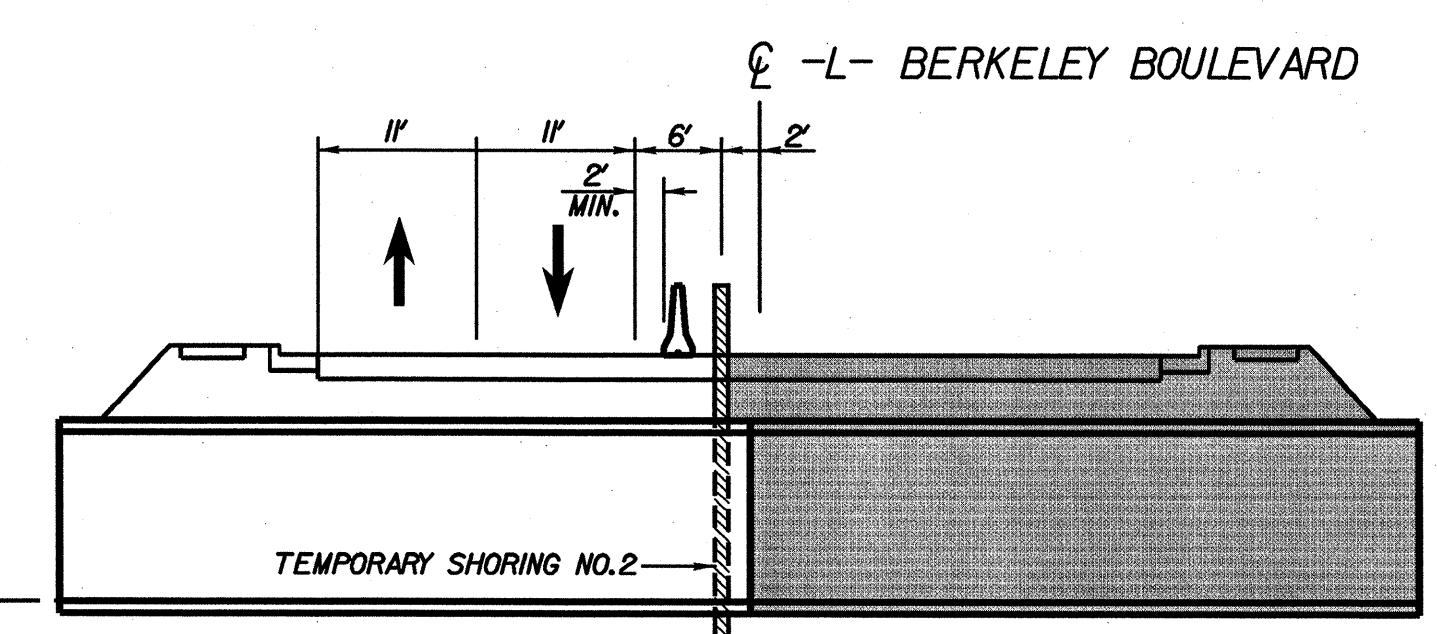
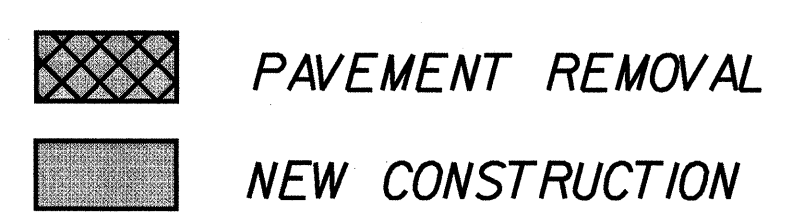
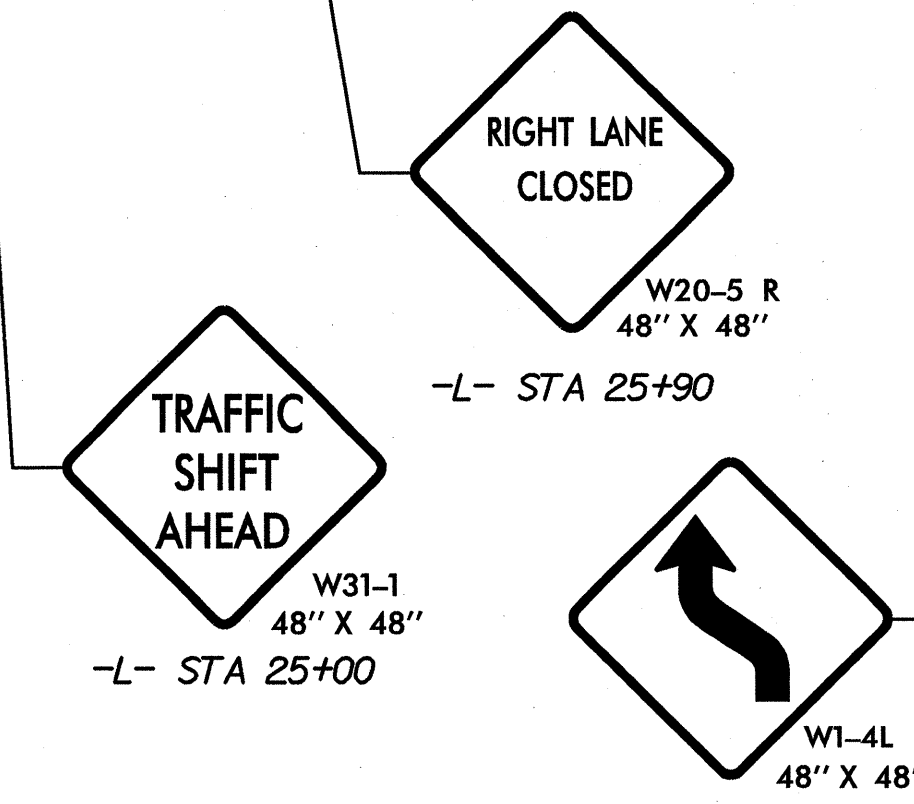
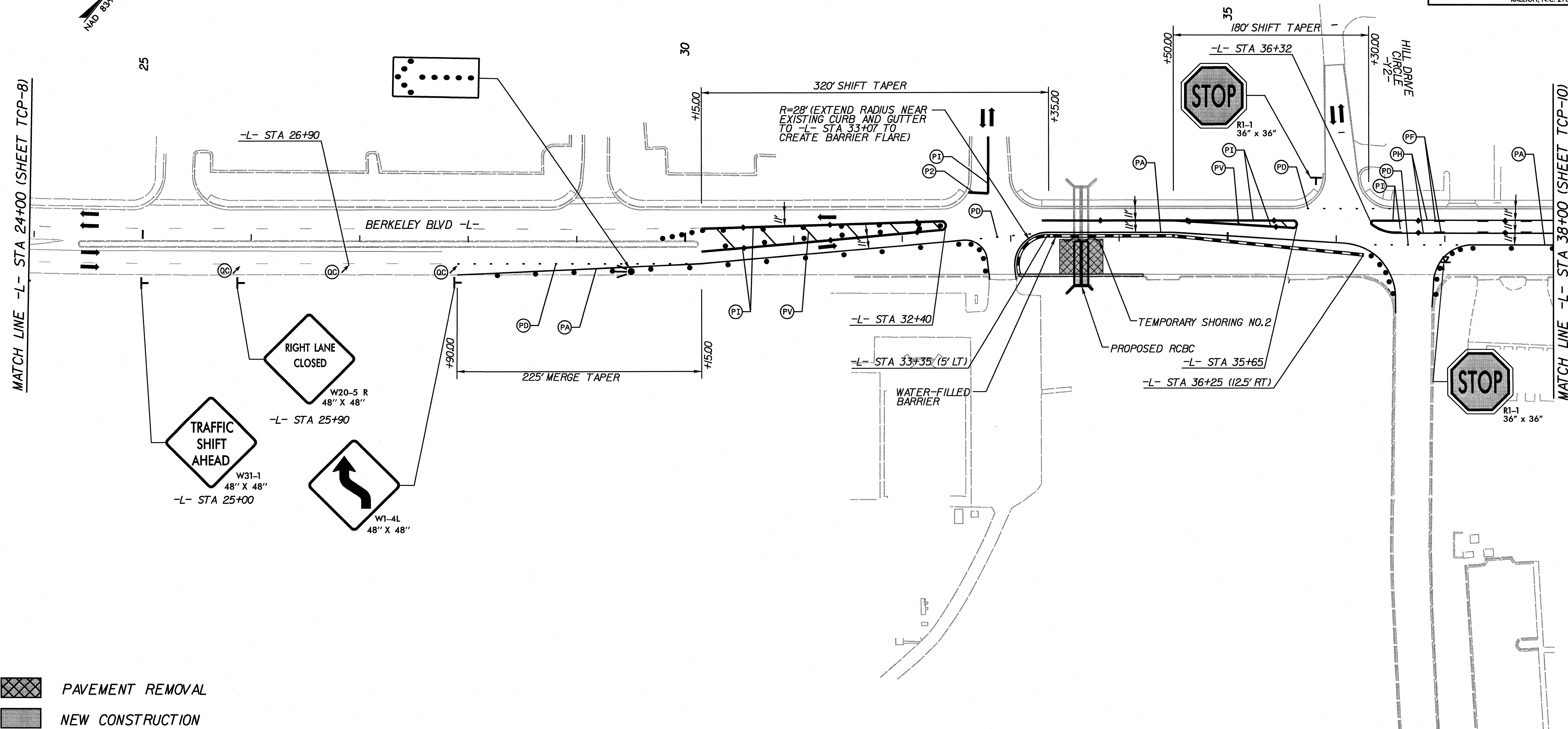
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2/21/2013

SHEET 8 OF 11

APPROVED: _____	DATE: _____
	
<b>TRAFFIC CONTROL PLAN PHASE II</b>	
SCALE: 1" = 50'	REVISIONS
DATE: 09-26-11	
DWG. BY: DAS	
DESIGN BY: JJP	
REVIEWED BY: CAN	CADD FILE

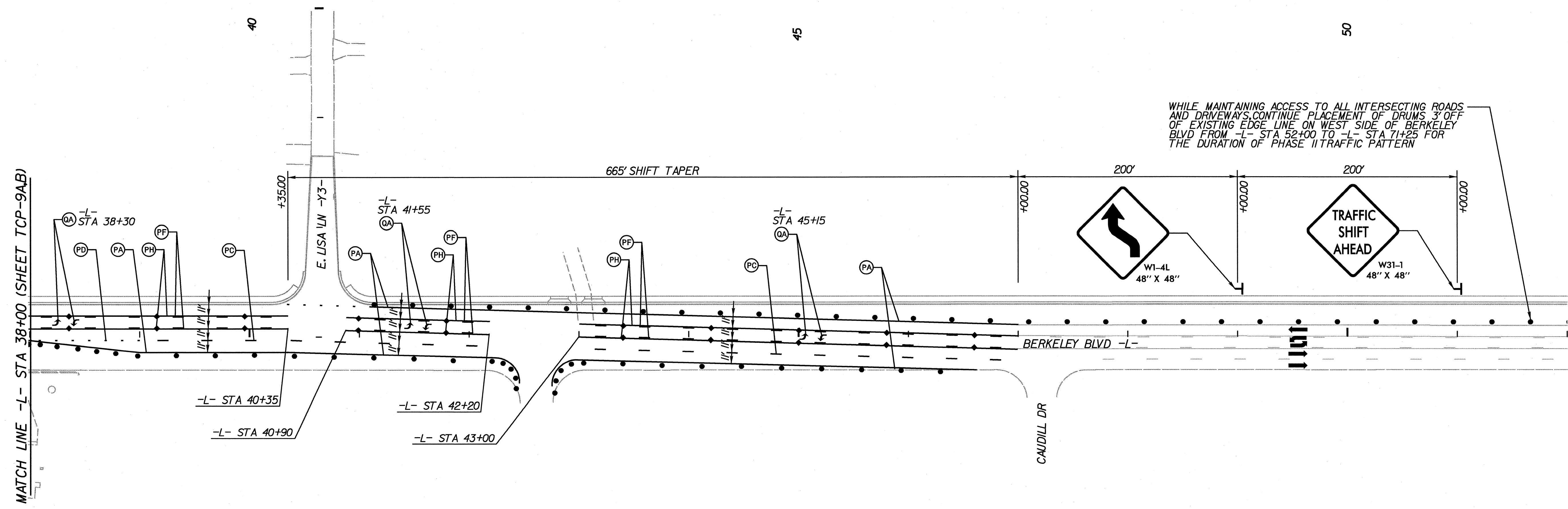
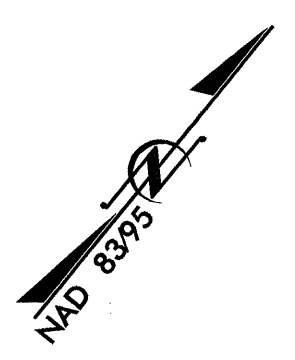




SHEET 9 OF 11

APPROVED: _____	DATE: _____
<b>TRAFFIC CONTROL PLAN PHASE II</b>	
SCALE: 1" = 50'	REVISIONS
DATE: 06-01-11	
DWG. BY: DAS	
DESIGN BY: JJP	
REVIEWED BY: CAN	CADD FILE


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 2/21/2013



WHILE MAINTAINING ACCESS TO ALL INTERSECTING ROADS AND DRIVEWAYS, CONTINUE PLACEMENT OF DRUMS 3' OFF OF EXISTING EDGE LINE ON WEST SIDE OF BERKELEY BLVD FROM -L- STA 52+00 TO -L- STA 71+25 FOR THE DURATION OF PHASE II TRAFFIC PATTERN

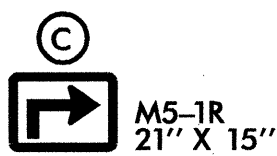
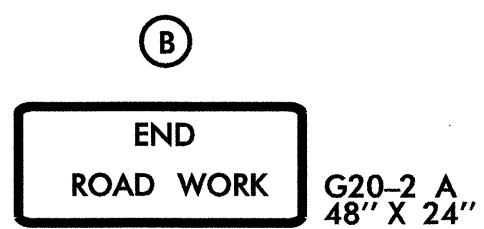
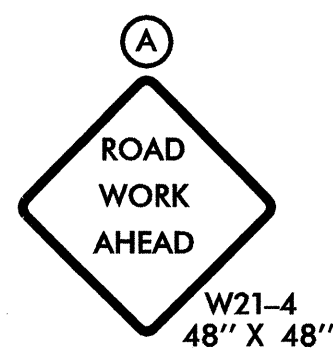
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2/21/2013

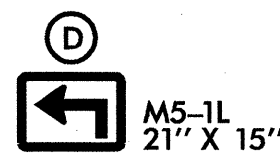
APPROVED: _____	DATE: _____
	
<b>TRAFFIC CONTROL PLAN PHASE II</b>	
SCALE: 1" = 50'	REVISIONS
DATE: 09-26-11	
DWG. BY: DAS	
DESIGN BY: JJP	
REVIEWED BY: CAN	CADD FILE



ADVANCE WARNING SIGNS

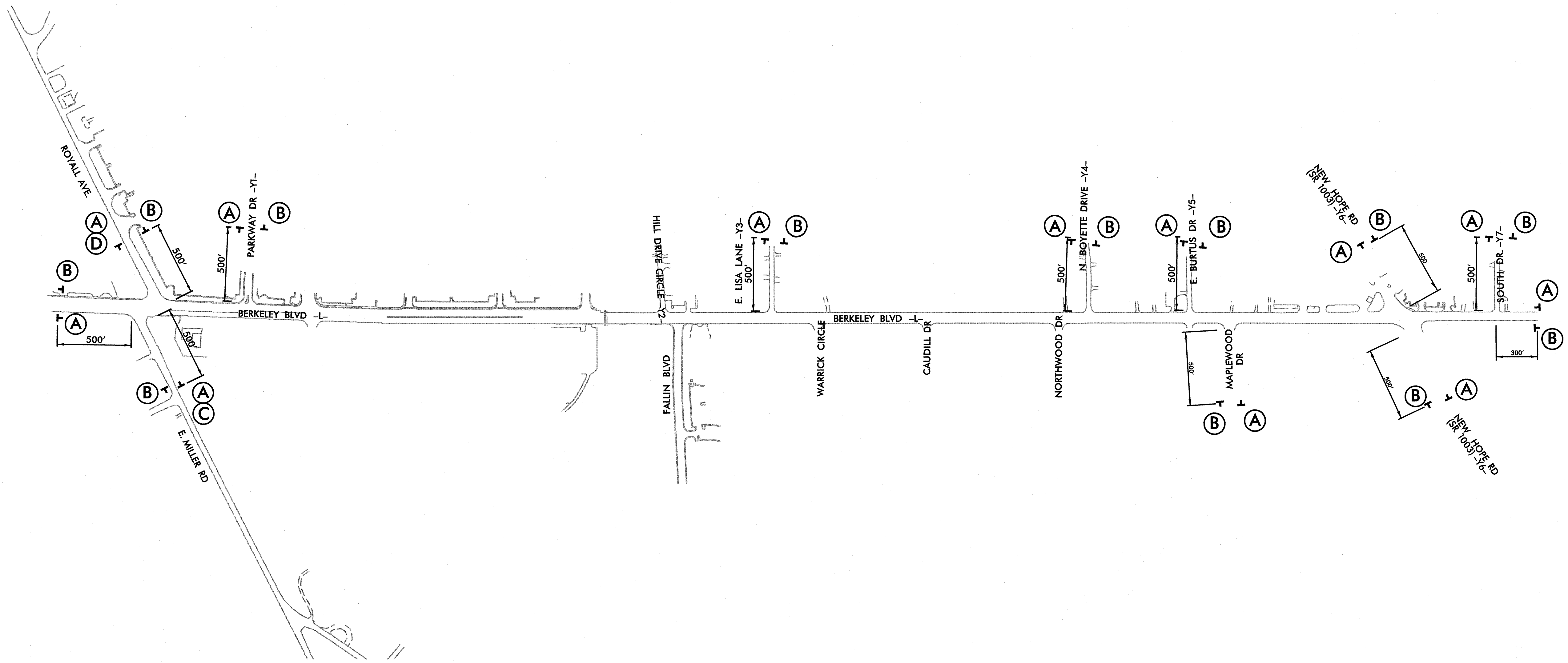
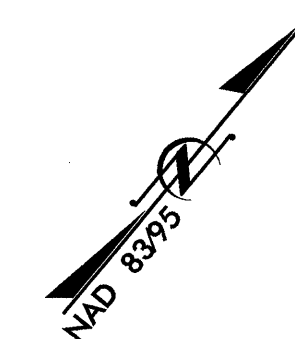


\* INSTALL SIGN C BELOW SIGN A



\* INSTALL SIGN D BELOW SIGN A

PROJ. REFERENCE NO. U-3609A	SHEET NO. TCP-11
Kimley-Horn and Associates, Inc. P.O. BOX 33068 RALEIGH, N.C. 27636-3068	



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APPROVED: _____	DATE: _____
<b>ADVANCE WARNING SIGNS</b>	
SCALE: NTS	REVISIONS
DATE: 09-26-11	
DWG. BY: DAS	
DESIGN BY: JJP	
REVIEWED BY: CAN	CADD FILE