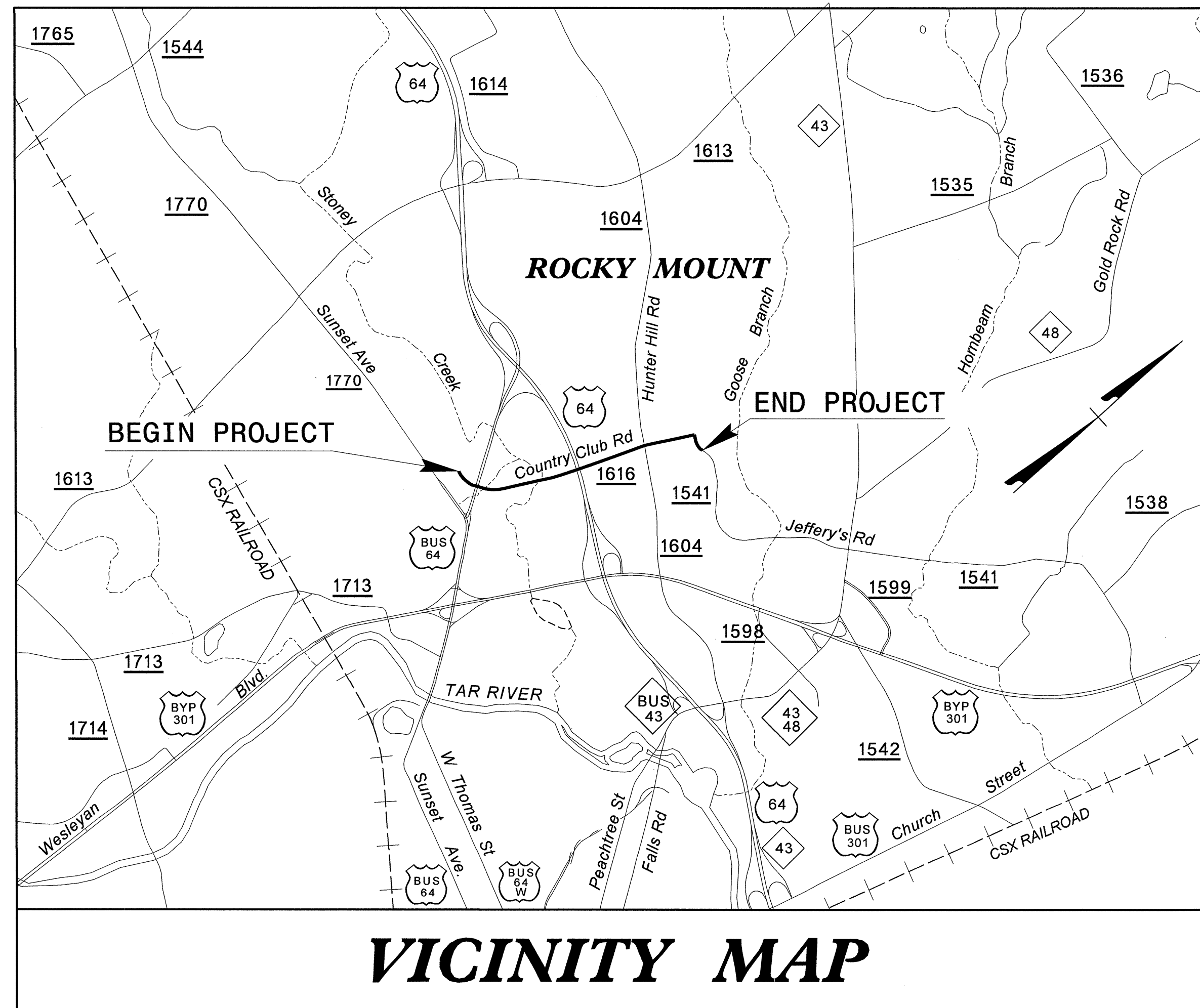
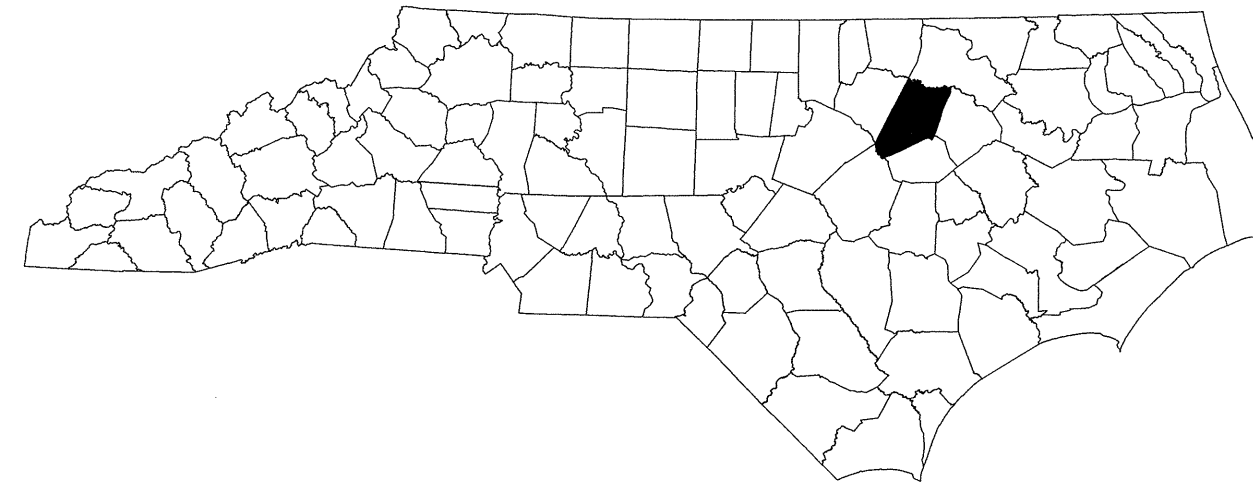


STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

TRANSPORTATION MANAGEMENT PLAN
NASH COUNTY



VICINITY MAP

SHEET NO.	TITLE
TMP-1	TITLE SHEET, VICINITY MAP AND INDEX OF SHEETS
TMP-1A	LIST OF APPLICABLE ROADWAY STANDARD DRAWINGS, AND LEGEND
TMP-1B	TRANSPORTATION OPERATIONS PLAN: (MANAGEMENT STRATEGIES, GENERAL NOTES AND LOCAL NOTES)
TMP-2	SPECIAL SIGN DESIGN
TMP-3	AREA OVERVIEW
TMP-4	OFFSITE DETOUR ROUTE FOR COUNTRY CLUB RD
TMP-4A	SHORT TERM DETOUR FOR DRAINAGE STRUCTURE & PIPE INSTALLATION
TMP-4B	SHORT TERM DETOUR FOR TIE-INS FOR COUNTRY CLUB RD AND NOELL LN
TMP-5	AREA 1 TEMPORARY TRAFFIC CONTROL PHASING
TMP-6 - TMP-9	AREA 1 PHASE IA DETAIL
TMP-10 - TMP-13	AREA 1 PHASE IB DETAIL
TMP-14 - TMP-16	AREA 1 PHASE II DETAIL
TMP-17 - TMP-21	AREA 1 PHASE III DETAIL
TMP-22	AREA 2 TEMPORARY TRAFFIC CONTROL PHASING
TMP-23 - TMP-24	AREA 2 PHASE I DETAIL
TMP-25 - TMP-26	AREA 2 PHASE II DETAIL

SHEET NO.
TMP-1

U-3331

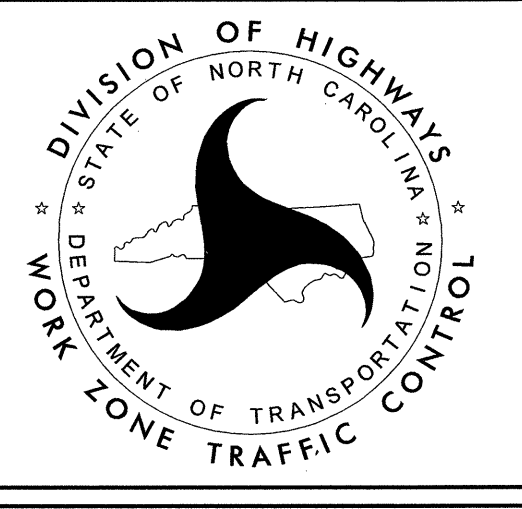
TIP PROJECT:

4/3/2014 R:\TrafficControl\top\Revision to Areas\U-3331\TC_TMP_1.dgn User:sbjennings



N.C.D.O.T. WORK ZONE TRAFFIC CONTROL
1561 MAIL SERVICE CENTER (MSC) RALEIGH, NC 27699-1561
750 N. GREENFIELD PARKWAY, GARNER, NC 27529 (DELIVERY)
PHONE: (919) 773-2800 FAX: (919) 771-2745

J. S. BOURNE, P.E. STATE TRAFFIC MANAGEMENT ENGINEER
STEVE KITE, P.E. TRAFFIC CONTROL PROJECT ENGINEER
DON A. PARKER TRAFFIC CONTROL PROJECT DESIGN ENGINEER
SPENCER B. JENNINGS TRAFFIC CONTROL DESIGN ENGINEER



APPROVED: *[Signature]*
DATE: *April 4, 2014*

ROADWAY STANDARD DRAWINGS

THE FOLLOWING ROADWAY STANDARDS AS SHOWN 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
1101.11	TRAFFIC CONTROL DESIGN TABLES
1110.01	STATIONARY WORK ZONE SIGNS
1110.02	PORTABLE WORK ZONE SIGNS
1115.01	FLASHING ARROW BOARDS
1130.01	DRUM
1135.01	CONES
1145.01	BARRICADES
1150.01	FLAGGING DEVICES
1180.01	SKINNY-DRUM
1205.01	PAVEMENT MARKINGS - LINE TYPES AND OFFSETS
1205.02	PAVEMENT MARKINGS - TWO-LANE AND MULTI-LANE ROADWAYS
1205.04	PAVEMENT MARKINGS - INTERSECTIONS
1205.05	PAVEMENT MARKINGS - TURN LANES
1205.07	PAVEMENT MARKINGS - PEDESTRIAN CROSSWALKS
1205.08	PAVEMENT MARKINGS - SYMBOLS AND WORD MESSAGES
1205.09	PAVEMENT MARKINGS - PAINTED ISLANDS
1205.10	PAVEMENT MARKINGS - SCHOOL AREAS
1205.12	PAVEMENT MARKINGS - BRIDGES
1250.01	RAISED PAVEMENT MARKERS - INSTALLATION SPACING
1251.01	RAISED PAVEMENT MARKERS - PERMANENT AND TEMPORARY

LEGEND

GENERAL

- DIRECTION OF TRAFFIC FLOW
- DIRECTION OF PEDESTRIAN TRAFFIC FLOW
- EXIST. PVMT.
- NORTH ARROW
- PROPOSED PVMT.
- TEMP. SHORING (LOCATION PURPOSES ONLY)

- WORK AREA
- REMOVAL
- ON-GOING CONSTRUCTION
- WEDGING

SIGNALS

- EXISTING
- PROPOSED
- TEMPORARY

PAVEMENT MARKINGS

- EXISTING LINES
- TEMPORARY LINES

TRAFFIC CONTROL DEVICES

- BARRICADE (TYPE III)
- CONE
- DRUM
- SKINNY DRUM
- TUBULAR MARKER
- TEMPORARY CRASH CUSHION
- FLASHING ARROW BOARD
- FLAGGER
- LAW ENFORCEMENT
- TRUCK MOUNTED ATTENUATOR (TMA)
- CHANGEABLE MESSAGE SIGN

TEMPORARY SIGNING

- PORTABLE SIGN
- STATIONARY SIGN
- STATIONARY OR PORTABLE SIGN

PAVEMENT MARKERS

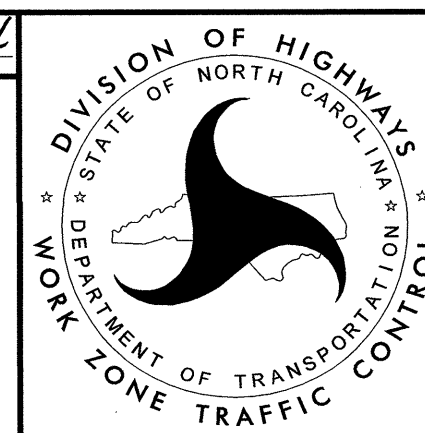
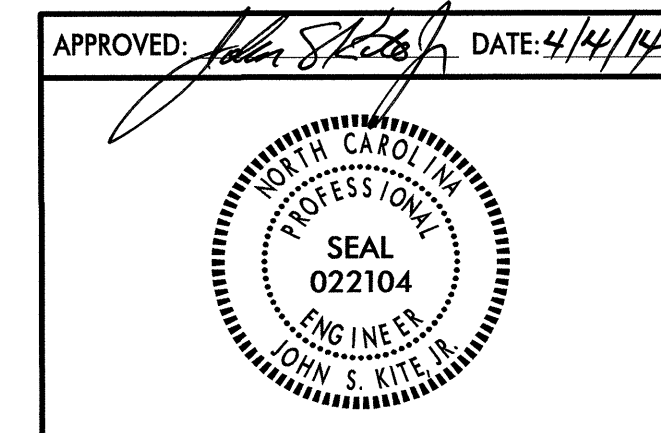
- CRYSTAL/CRYSTAL
- CRYSTAL/RED
- YELLOW/YELLOW

PAVEMENT MARKING SYMBOLS

- PAVEMENT MARKING SYMBOLS

TEMPORARY PAVEMENT MARKING

	<u>24" PAINT</u>		<u>4" COLD APPLIED - TYPE IV</u>
P2	WHITE STOPBAR	CA	WHITE EDGELINE
		CB	YELLOW EDGE LINE
		CI	DOUBLE YELLOW CENTERLINE
	<u>4" PAINT</u>		<u>PAINT MARKING SYMBOLS</u>
PA	WHITE EDGELINE	↵ QA	LEFT TURN ARROW
PB	YELLOW EDGE LINE	↷ QB	RIGHT TURN ARROW
PC	10' WHITE SKIP LINE	↑ QC	STRAIGHT ARROW
PD	2 FT. WHITE MINISKIP		
PE	WHITE SOLID LANE LINE		
PF	YELLOW SKIP LINE		
PH	YELLOW SINGE CENTER		
PI	DOUBLE YELLOW CENTERLINE		



ROADWAY STANDARD DRAWINGS & LEGEND

MANAGEMENT STRATEGIES

TRAFFIC MANAGEMENT STRATEGIES

U-3331 IS DIVIDED INTO TWO AREAS:

AREA 1: COUNTRY CLUB RD. SOUTH OF HUNTER HILL RD. FROM
-L- STA. 12+90 +/- TO -L- STA. 55+04 +/- AND INCLUDES
THE PROPOSED STRUCTURE OVER STONEY CREEK.

AREA 2: COUNTRY CLUB RD. NORTH OF HUNTER HILL RD. FROM
-L- STA. 60+33 +/- TO -L- STA. 71+47 +/-.

IN BOTH AREAS, TRAFFIC WILL BE MAINTAINED USING FLAGGING AND LANE CLOSURES AS REQUIRED AND IN ACCORDANCE WITH LANE CLOSURE RESTRICTIONS, AND RETURNING TRAFFIC TO THE EXISTING PATTERN AT THE CONCLUSION OF EACH WORK DAY.

COUNTRY CLUB RD. WILL BE CLOSED TO CONSTRUCT THE BRIDGE OVER STONEY CREEK AND APPROACHES IN ACCORDANCE WITH THE DATE OF AVAILABILITY FOR THIS WORK AS STIPULATED IN THE CONTRACT DOCUMENTS.

AREA 2 WILL BE AVAILABLE FIRST AND MUST BE COMPLETED AND OPEN TO THE FINAL ASPHALT LAYER AS DESCRIBED IN THE PHASING AND CONTRACT DOCUMENTS PRIOR TO CLOSING AND DETOURING COUNTRY CLUB RD. FOR BRIDGE CONSTRUCTION.

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.

TIME RESTRICTIONS

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

ROAD NAME	DAY AND TIME RESTRICTIONS
-L- COUNTRY CLUB ROAD (SR 1616) AND -Y1- US 64 BUS AND HUNTER HILL RD. (SR 1604)	MON-FRI 7:00 AM TO 9:00 AM AND 4:00 PM TO 6:00 PM


B) DO NOT CLOSE ROADS AS FOLLOWS:

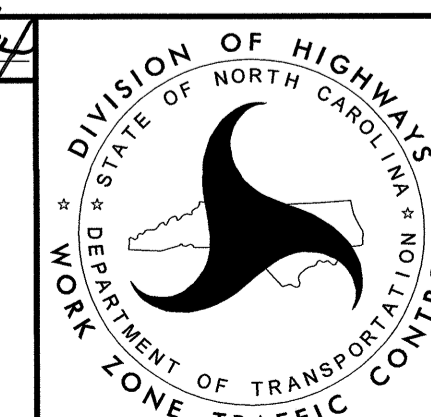
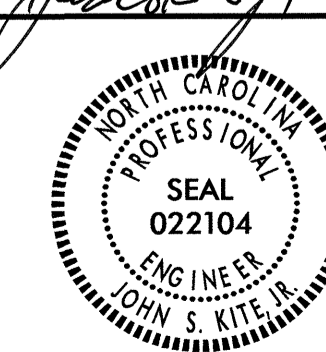
ROAD NAME	DAY AND TIME RESTRICTIONS	OPERATION
-L- STA. 14+00 TO STA. 17+20 (ZEBULON RD)	MON-SUN 6:00 AM TO 9:00 PM	DRAINAGE INSTALLATION
-L- STA. 60+00 TO STA. 62+00 (COUNTRY CLUB RD)	MON-SUN 6:00 AM TO 9:00 PM	DRAINAGE INSTALLATION
JEFFREYS RD BETWEEN NOELL LN AND COUNTRY CLUB RD	MON-SUN 6:00 AM TO 9:00 PM	DRAINAGE INSTALLATION

LANE AND SHOULDER CLOSURE REQUIREMENTS

- C) 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.
- D) 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.
- E) 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.
- F) 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.
- G) 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.
- H) PROVIDE TRAFFIC CONTROL FOR APPROPRIATE LANE CLOSURES FOR SURVEYING DONE BY THE DEPARTMENT.

4/3/2014
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User:rsjennings

APPROVED:  DATE: 4/4/14



**TRANSPORTATION
OPERATIONS
PLAN**

GENERAL NOTES

PAVEMENT EDGE DROP OFF REQUIREMENTS

- I) 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.
- J) 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) 100 FT IN ADVANCE AND A MINIMUM OF EVERY HALF MILE THROUGHOUT THE UNEVEN AREA.

TRAFFIC PATTERN ALTERATIONS

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

SIGNING

- L) 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.
- M) PROVIDE SIGNING AND DEVICES REQUIRED TO CLOSE THE ROAD ACCORDING TO THE ROADWAY STANDARD DRAWINGS AND TRAFFIC CONTROL PLANS.
- PROVIDE SIGNING REQUIRED FOR THE OFF-SITE DETOUR ROUTE AS SHOWN IN THE TRAFFIC CONTROL PLANS.
- N) COVER OR REMOVE ALL SIGNS AND DEVICES REQUIRED TO CLOSE THE ROAD WHEN ROAD CLOSURE IS NOT IN OPERATION.
- COVER OR REMOVE ALL SIGNS REQUIRED FOR THE OFF-SITE DETOUR WHEN THE DETOUR IS NOT IN OPERATION.
- O) ENSURE ALL NECESSARY SIGNING IS IN PLACE PRIOR TO ALTERING ANY TRAFFIC PATTERN.
- P) INSTALL BLACK ON ORANGE "DIP" SIGNS (W8-2) AND/OR "BUMP" SIGNS (W8-1) 100 FT IN ADVANCE OF THE UNEVEN AREA, OR AS DIRECTED BY THE ENGINEER.

TRAFFIC CONTROL DEVICES

- Q) WHEN LANE CLOSURES ARE NOT IN EFFECT SPACE CHANNELIZING DEVICES IN WORK AREAS NO GREATER IN FEET THAN TWICE THE POSTED SPEED LIMIT (MPH) EXCEPT, 10 FT ON-CENTER IN RADII, AND 3 FT OFF THE EDGE OF AN OPEN TRAVELWAY. REFER TO STANDARD SPECIFICATIONS FOR ROADS AND STRUCTURES SECTIONS 1130 (DRUMS), 1135 (CONES) AND 1180 (SKINNY DRUMS) FOR ADDITIONAL REQUIREMENTS.
- R) PLACE TYPE III BARRICADES, WITH "ROAD CLOSED" SIGN R11-2 ATTACHED, OF SUFFICIENT LENGTH TO CLOSE ENTIRE ROADWAY.
- S) PLACE ADDITIONAL SETS OF THREE CHANNELIZING DEVICES PERPENDICULAR TO THE EDGE OF TRAVELWAY ON 500 FT CENTERS WHEN UNOPENED LANES ARE CLOSED TO TRAFFIC.

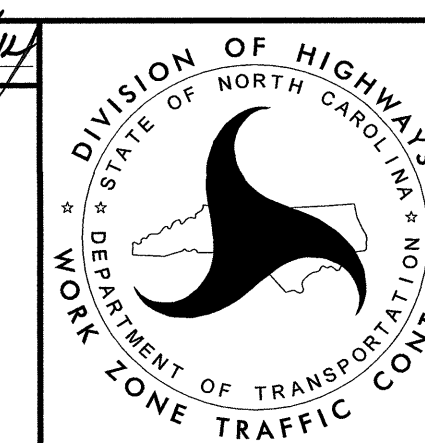
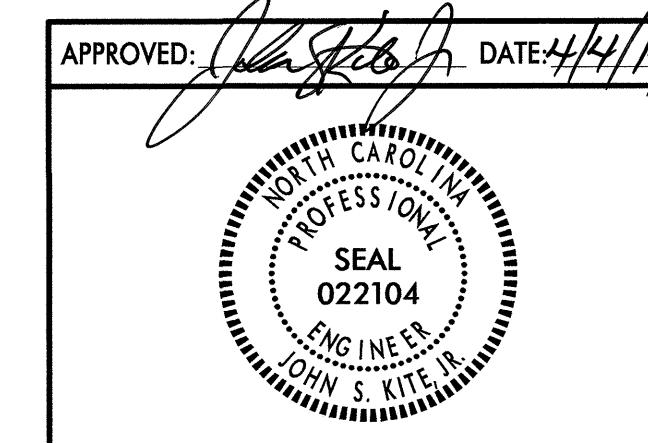
PAVEMENT MARKINGS AND MARKERS

- T) INSTALL TEMPORARY PAVEMENT MARKINGS AND TEMPORARY PAVEMENT MARKERS ON INTERIM LAYERS OF PAVEMENT AS FOLLOWS:
- | ROAD NAME | MARKING | MARKER |
|-----------|--------------|------------------|
| ALL ROADS | PAINT | TEMPORARY RAISED |
| BRIDGES | COLD APPLIED | NONE |
- U) 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.
- V) TIE PROPOSED PAVEMENT MARKING LINES TO EXISTING PAVEMENT MARKING LINES.
- W) REMOVE/REPLACE ANY CONFLICTING/DAMAGED PAVEMENT MARKINGS AND MARKERS BY THE END OF EACH DAY'S OPERATION.
- X) TRACE THE EXISTING AND PROPOSED MONOLITHIC ISLAND LOCATIONS WITH PROPER COLOR PAVEMENT MARKINGS PRIOR TO REMOVAL AND INSTALLATION. PLACE DRUMS TO DELINEATE ANY EXISTING AND PROPOSED MONOLITHIC ISLANDS AFTER REMOVAL AND BEFORE INSTALLATION.

MISCELLANEOUS

- Y) LAW ENFORCEMENT MAY BE USED TO MAINTAIN TRAFFIC THROUGH THE WORK AREA AND/OR INTERSECTIONS AS DIRECTED BY THE ENGINEER.
- Z) ALL CURB RAMP LOCATIONS SHALL BE DERIVED FROM STATIONING SHOWN ON PAVEMENT MARKING PLANS OR AS DIRECTED BY THE ENGINEER IN COORDINATION WITH THE SIGNING AND DELINEATION UNIT.

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**TRANSPORTATION
OPERATIONS
PLAN**

<p>SIGN NUMBER: SP14001 TYPE: STATIONARY QUANTITY: SEE PLANS SIGN WIDTH: 4'-0" HEIGHT: 2'-0" TOTAL AREA: 8.0 Sq.Ft. BORDER TYPE: INSET RECESS: 0.38" WIDTH: 0.63" RADII: 1.5" NO. Z BARS: LENGTH:</p>	<p>BACKG COLOR: Fluorescent Orange COPY COLOR: Black</p> <table border="1"> <tr> <th>SYMBOL</th> <th>X</th> <th>Y</th> <th>WID</th> <th>HT</th> </tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td></tr> </table> <p>MAT'L: 0.080" (2.0 mm) ALUMINUM</p>	SYMBOL	X	Y	WID	HT																																														<p>DESIGN BY: B.RASHID PROJECT ID: U-3331</p>	<p>CHECKED BY: DIV: 4</p>	<p>DATE: Jan 09, 2014</p>
SYMBOL	X	Y	WID	HT																																																		

BORDER
 R=1.5"
 TH=0.63"
 IN=0.38"

Spacing Factor is 1 unless specified otherwise

USE NOTES: 1,2

- Legend and border shall be direct applied black non-reflective sheeting.
- Background shall be NC GRADE B fluorescent orange retroreflective sheeting.

LETTER POSITIONS

Letter spacings are to start of next letter										Series/Size Text Length	
C	O	U	N	T	R	Y					D 2000 35.7
6.2	5.3	5.6	5.5	5	4.6	4.6	5.2	6.2			D 2000 34.8
C	L	U	B	R	D						
6.6	5.4	4.6	5.5	4.1	6	5.1	4.1	6.6			

FILENAME: SP14001_COUNTRY CLUB RD NORTH CAROLINA D.O.T. SIGN DETAIL

3/8/2014
 R:\TrafficControl\top\01014\U-3331_TC_TMP-2.dgn
 User: sdbjennings

<p>APPROVED: <i>[Signature]</i> DATE: 3-18-14</p>	<p>DIVISION OF HIGHWAYS DEPARTMENT OF TRANSPORTATION WORK ZONE TRAFFIC CONTROL</p>	<p style="text-align: center; font-size: 24pt; font-weight: bold;">SPECIAL SIGN DESIGN</p>
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PROJECT INFORMATION

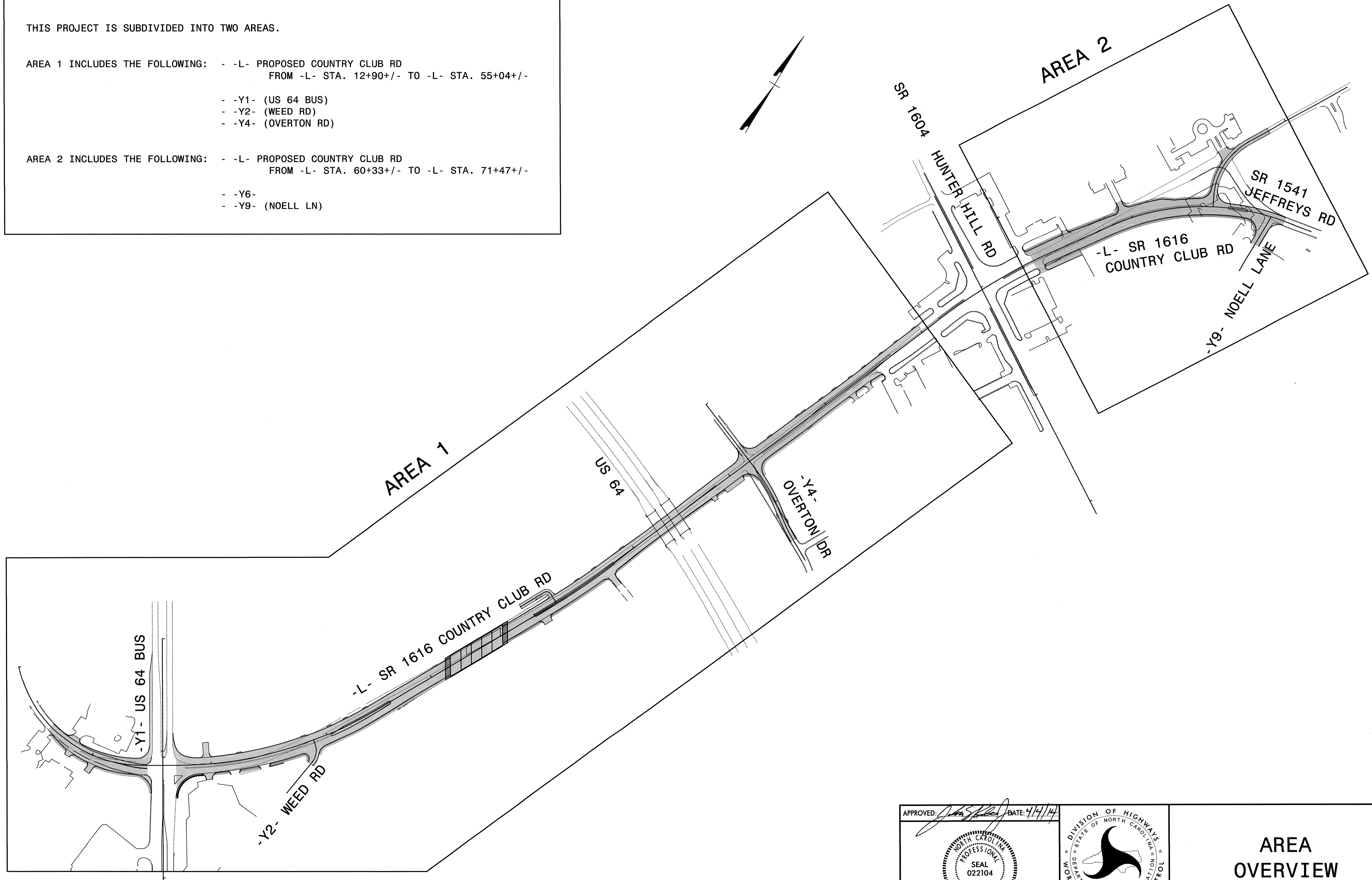
THIS PROJECT IS SUBDIVIDED INTO TWO AREAS.

AREA 1 INCLUDES THE FOLLOWING:

- -L- PROPOSED COUNTRY CLUB RD
FROM -L- STA. 12+90+/- TO -L- STA. 55+04+/-
- -Y1- (US 64 BUS)
- -Y2- (WEED RD)
- -Y4- (OVERTON RD)

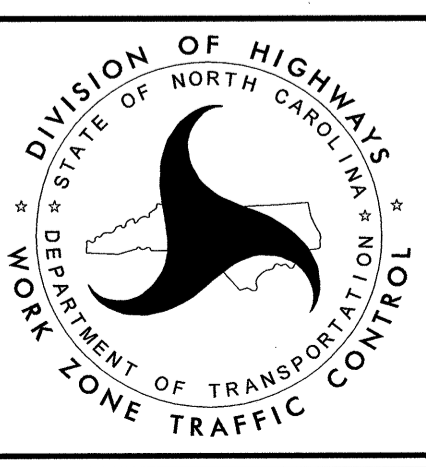
AREA 2 INCLUDES THE FOLLOWING:

- -L- PROPOSED COUNTRY CLUB RD
FROM -L- STA. 60+33+/- TO -L- STA. 71+47+/-
- -Y6-
- -Y9- (NOELL LN)



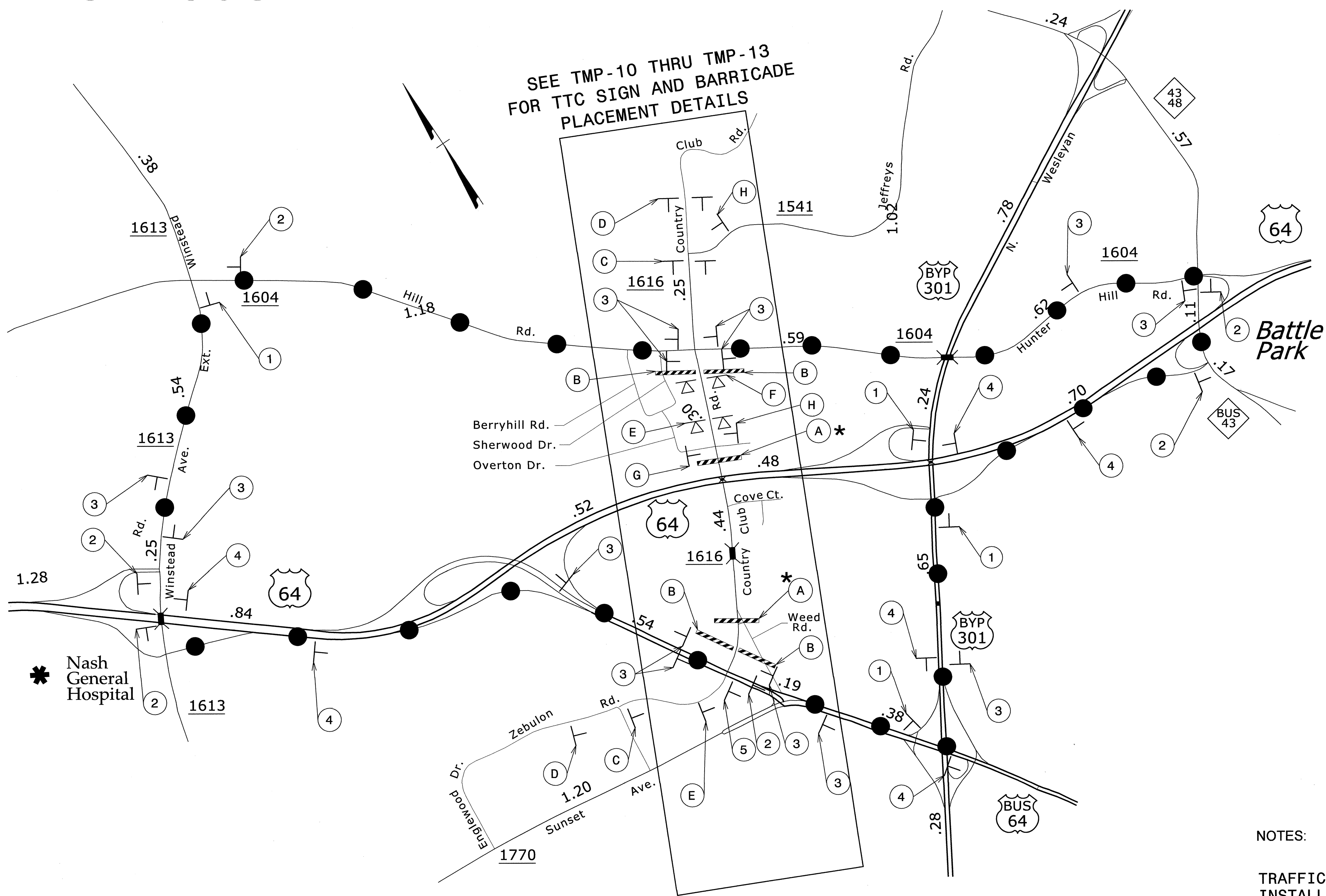
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 User: sbjennings

APPROVED: *[Signature]* DATE: 4/14/14

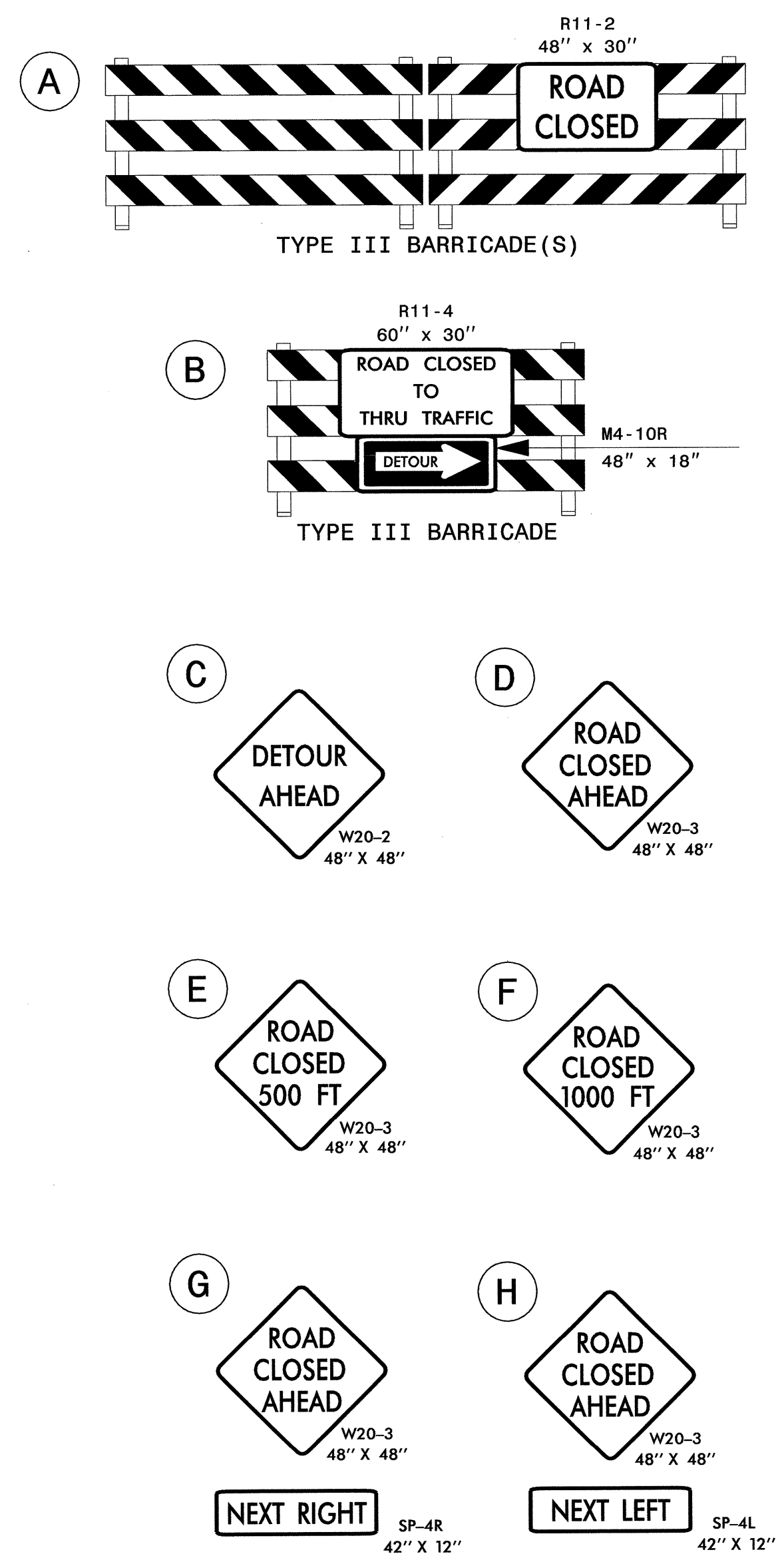


AREA OVERVIEW

NASH COUNTY



SEE TMP-10 THRU TMP-13
FOR TTC SIGN AND BARRICADE
PLACEMENT DETAILS



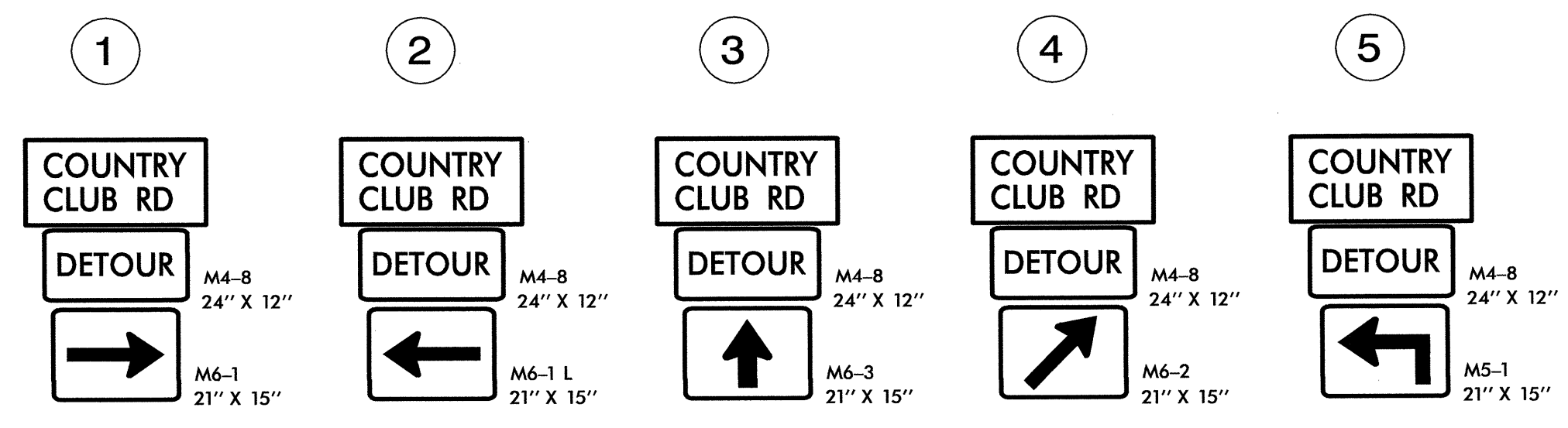
NOTES:

TRAFFIC CONTROL DEVICES (A) THRU (H) SHALL BE INSTALLED ACCORDING TO ROADWAY STANDARD DRAWING NO. 1101.03, SHEET 1 OF 9

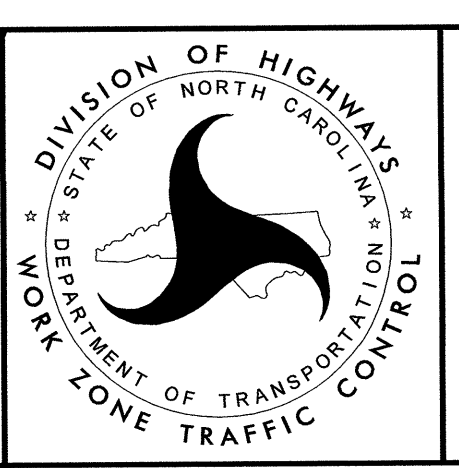
TRAFFIC CONTROL DEVICES (1) THRU (5) SHALL BE INSTALLED AS PER ENGINEER'S INSTRUCTION

*** NOTE:**

ROAD CLOSURE FOR SR 1616
COUNTRY CLUB RD BETWEEN
-L- STA. 23+00 +/- AND
-L- STA. 44+50 +/-.

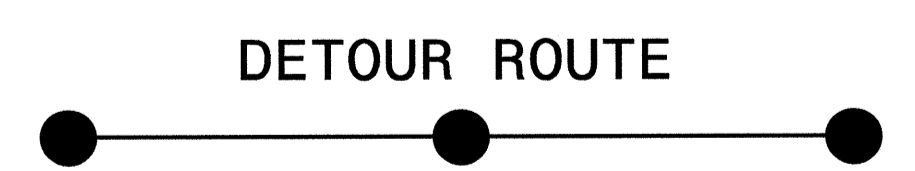
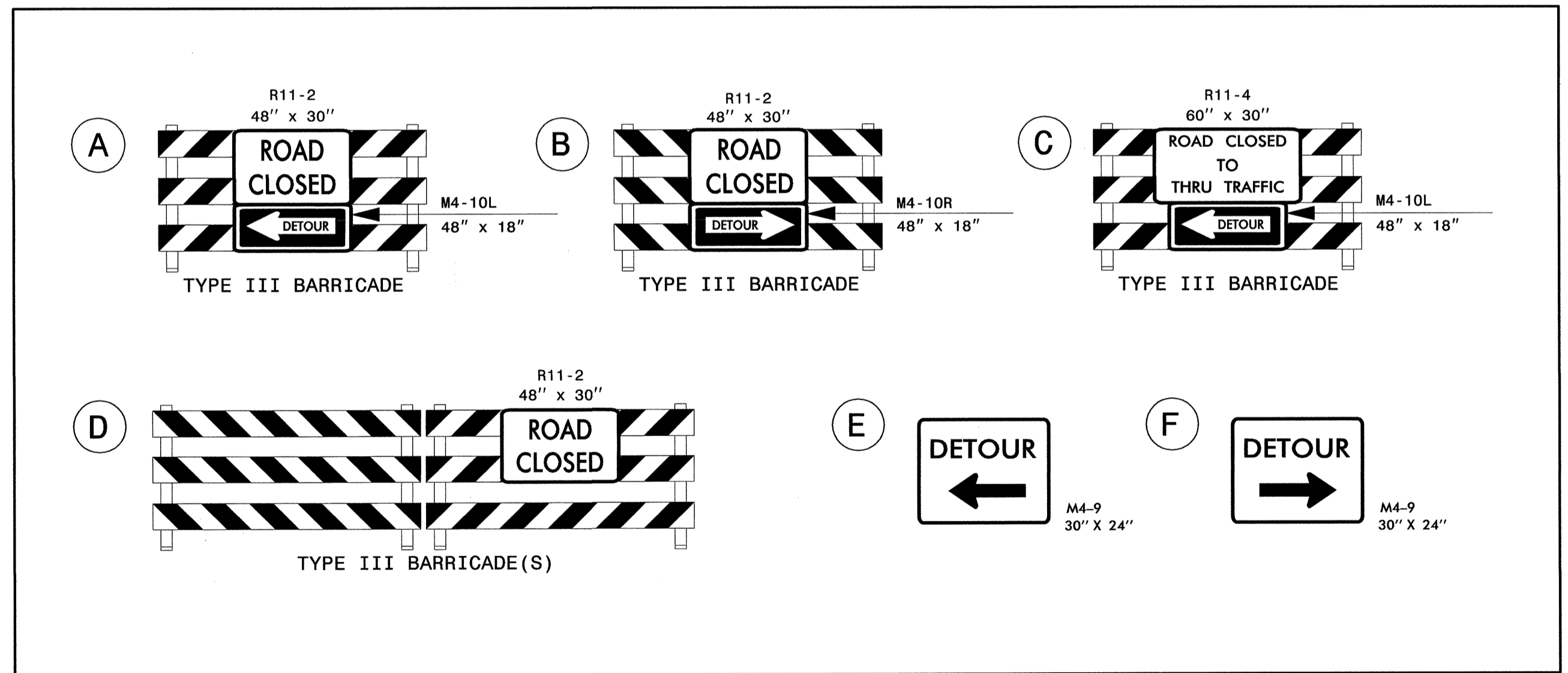
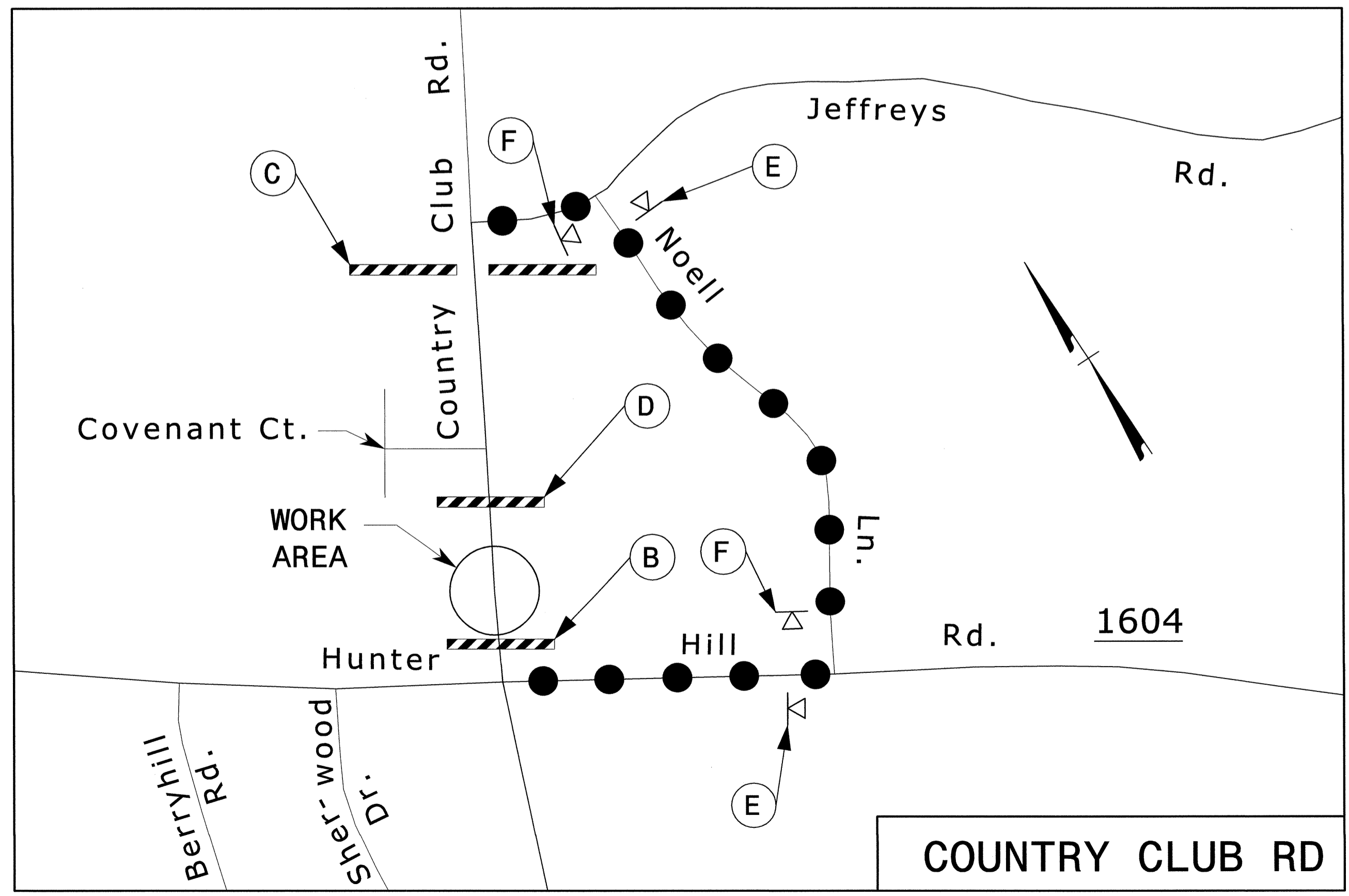
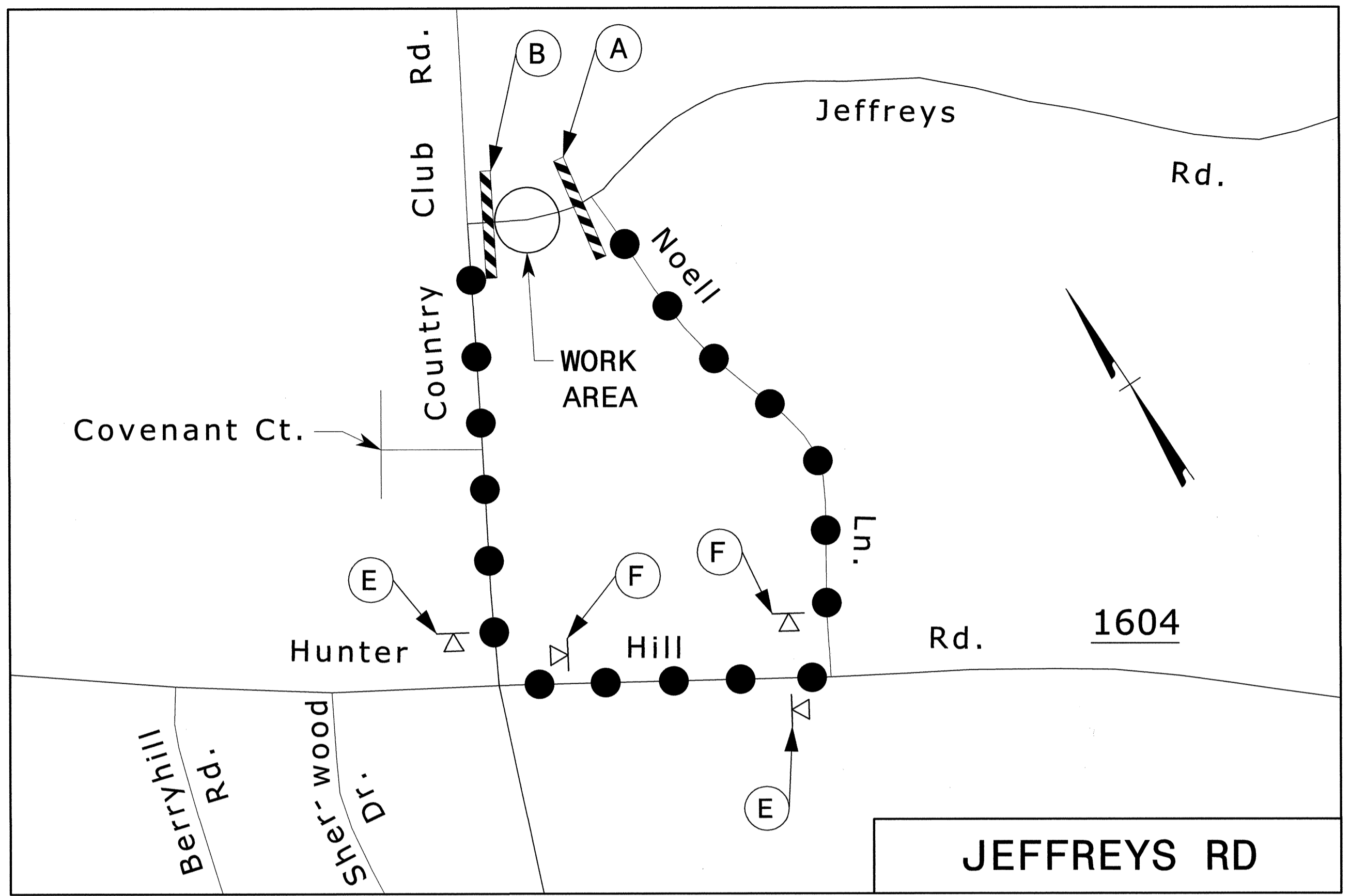
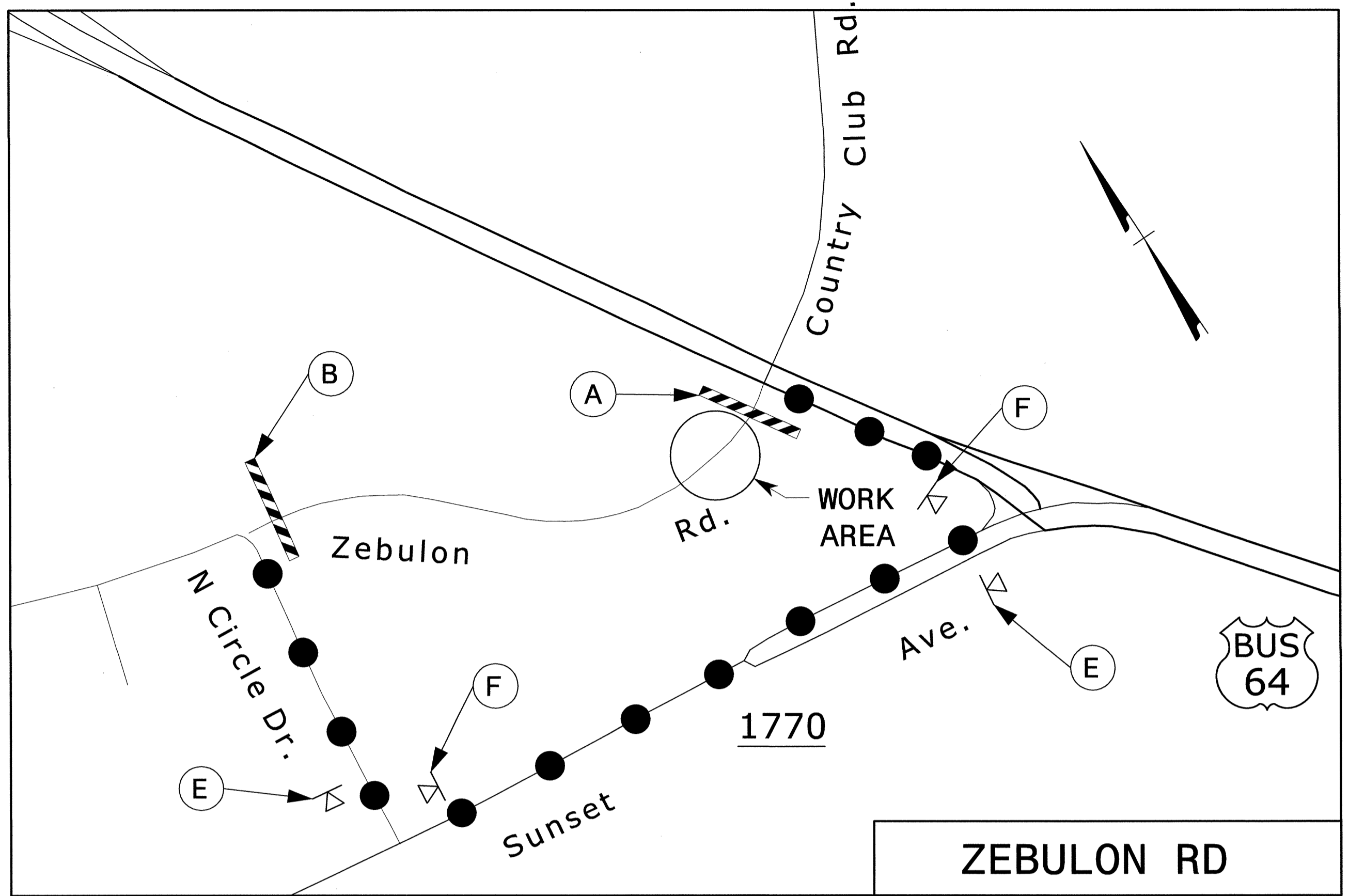


APPROVED: *[Signature]* DATE: 11/14



**OFFSITE DETOUR
ROUTE FOR
COUNTRY CLUB RD**

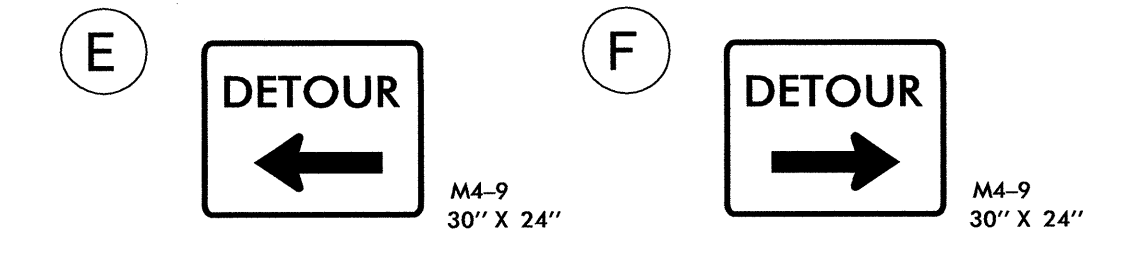
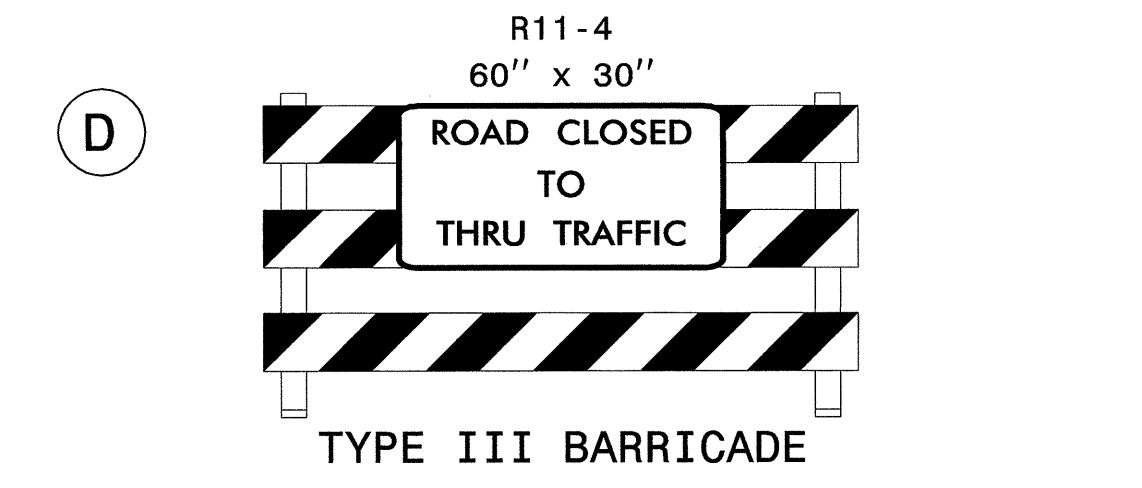
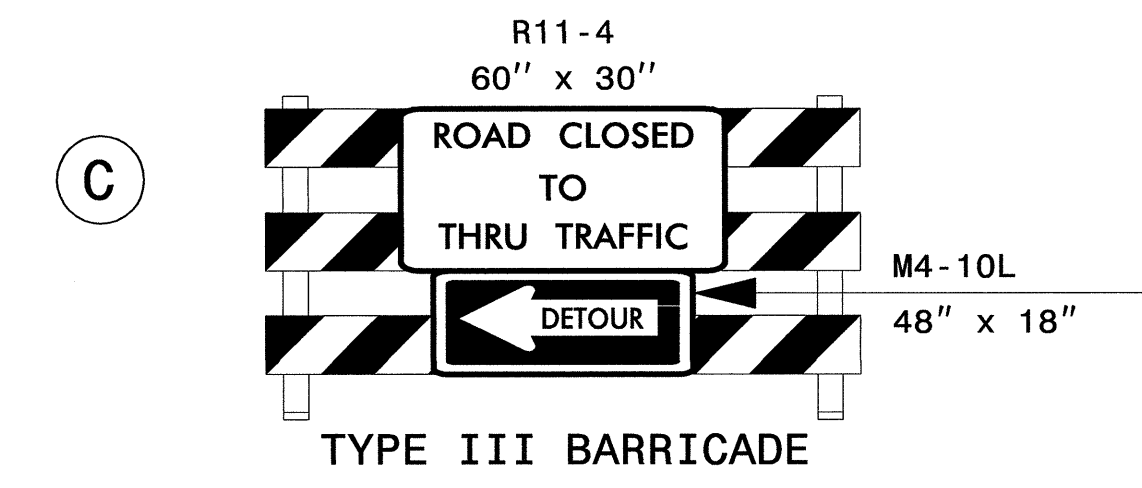
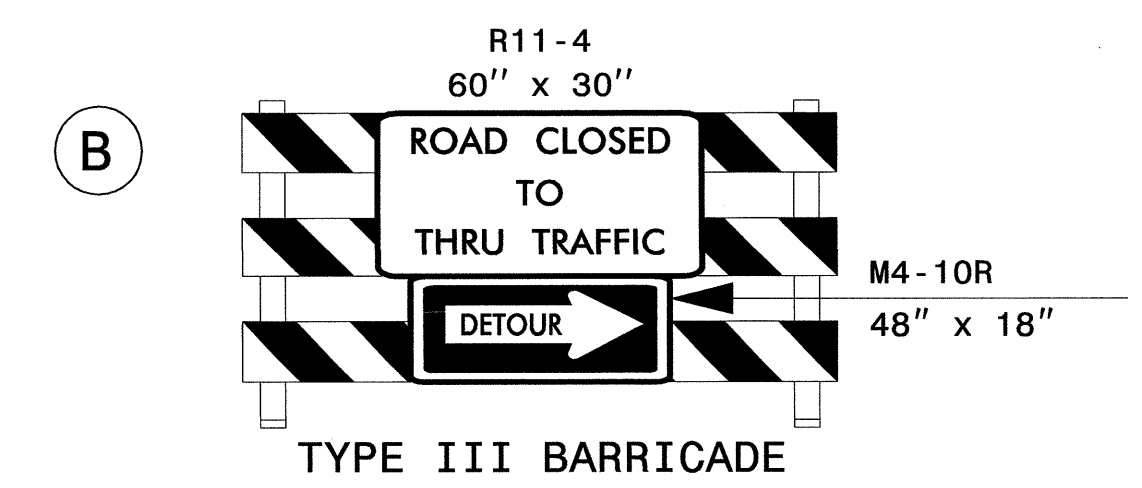
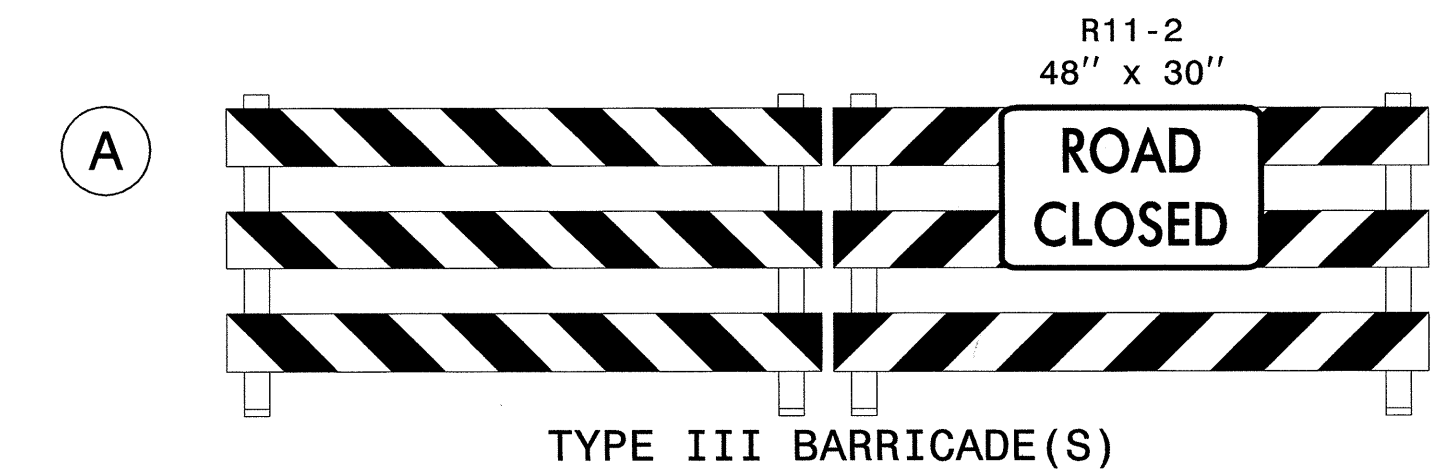
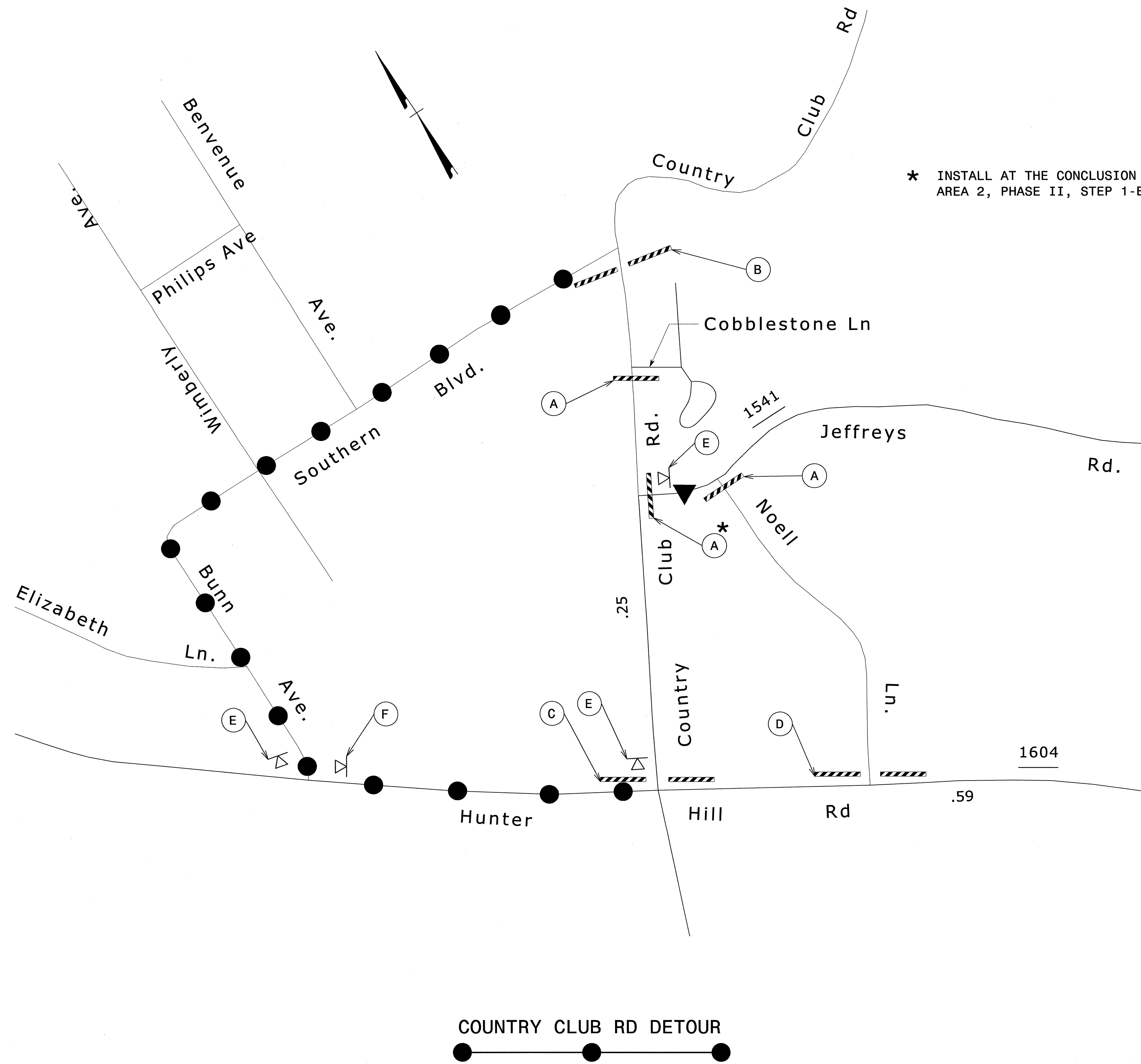
4/3/2014
 R:\TrafficControl\Top\Revision to Areas U-3331.TC_TMP_4.dgn
 User: bjenning



4/3/2014
 R:\TrafficControl\top\Revision to Areas\U-3331_TC_TMP_4A.dgn
 User: sbjennings

APPROVED: *John S. Kit* DATE: 4/14/14

**SHORT TERM DETOUR
FOR DRAINAGE
STRUCTURE & PIPE
INSTALLATION**



4/21/2014
 R:\TrafficControl\Top\Final Plans - Revised\U-3331\TC_TMP_4B_rev.dgn
 User:rsblennings

APPROVED: 	 DIVISION OF HIGHWAYS DEPARTMENT OF TRANSPORTATION WORK ZONE TRAFFIC CONTROL	SHORT TERM DETOUR FOR TIE-INS FOR COUNTRY CLUB RD
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AREA I

NOTE: THE WORK OF PHASE I-A DOES NOT HAVE TO COMPLETED PRIOR TO STARTING PHASE I-B AND MAY BE CONTINUED CONCURRENTLY WITH PHASE I-B AS SHOWN ON TMP-10, 12 AND 13.

PHASE I-A

STEP 1 -- INSTALL ADVANCE WORK ZONE WARNING SIGNS IN ACCORDANCE WITH RSD 1101.01, SHEETS 2 AND 3 OF 3.

STEP 2 -- AWAY FROM TRAFFIC, CONTRACTOR MAY BEGIN CLEARING AND GRADING ANYWHERE WITHIN THE LIMITS OF AREA 1

STEP 3 -- USING FLAGGERS (RSD 1101.02, SHEET 1) INSTALL DRAINAGE, GRADE, CURB AND GUTTER AND PAVE TO THE EDGE AND ELEVATION OF EXISTING PAVEMENT AS SHOWN ON SHEETS TMP-6, 8, AND 9.

NOTE: USE NIGHTLY ROAD CLOSURES BETWEEN 9:00 PM AND 6:00 AM TO INSTALL THE FOLLOWING PROPOSED DRAINAGE (SEE GENERAL NOTE (B), INTERMEDIATE CONTRACT TIME, AND TMP-4A FOR DETOUR ROUTES)

A. CLOSE ZEBULON RD TO INSTALL DRAINAGE STRUCTURES 413 AND 414 AND CONNECTING 15 IN. RCP (TMP-6)

B. CLOSE ZEBULON RD TO INSTALL 18" RCP AT
-L- STA. 17+14 +/- (TMP-6)

STEP 4 -- INSTALL TEMPORARY PHASE II SIGNAL AT US 64 BUS AND COUNTRY CLUB RD. (COVER HEADS) (SEE SIGNAL PLANS)

PHASE I-B

NOTE: CONTRACTOR SHALL NOT BEGIN THE WORK OF AREA 1, PHASE I-B UNTIL THE WORK OF AREA 2, PHASE I AND II (CONSTRUCT AREA 2 IN IT'S ENTIRETY THROUGH THE FINAL LAYER OF ASPHALT INCLUDING FINAL PAVEMENT MARKINGS) IS COMPLETED.

STEP 1 -- USING RSD 1101.03 SHEET 1 AND TMP 4, 10, 12, AND 13, CLOSE COUNTRY CLUB RD. AND DETOUR TRAFFIC.

STEP 2 -- CONSTRUCT COUNTRY CLUB RD. (-L-) FROM -L- STA. 23+00 TO STA. 45+00 INCLUDING PROPOSED BRIDGE, AND CULVERT EXTENSION, UP TO BUT NOT INCLUDING THE FINAL LAYER OF SURFACE COURSE

STEP 3 -- PLACE TEMPORARY PAVEMENT MARKINGS FOR THE PHASE II TRAFFIC PATTERN, ACTIVATE TEMPORARY SIGNALS AND OPEN COUNTRY CLUB RD. TO THE PATTERN DETAILED ON SHEETS TMP-14 THRU 16.

PHASE II

STEP 1 -- USING FLAGGERS (RSD 1101.02, SHEET 1) PERFORM GRADING, INSTALL CURB AND GUTTER AND PAVE TO THE EDGE AND ELEVATION OF EXISTING PAVEMENT AS SHOWN ON SHEET TMP-14.

STEP 2 -- USING FLAGGERS (RSD 1101.02, SHEET 1) COMPLETE ANY ONGOING CONSTRUCTION BEGUN IN PHASE I-A, STEP 3 AS SHOWN ON SHEETS TMP-14 THRU 16.

STEP 3 -- PLACE TEMPORARY PAVEMENT MARKINGS FOR THE PHASE III TRAFFIC PATTERN, ACTIVATE TEMPORARY PHASE III SIGNALS AND SHIFT TRAFFIC TO THE PATTERN DETAILED ON SHEETS TMP-17 THROUGH TMP-21

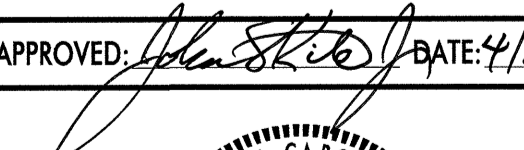
PHASE III


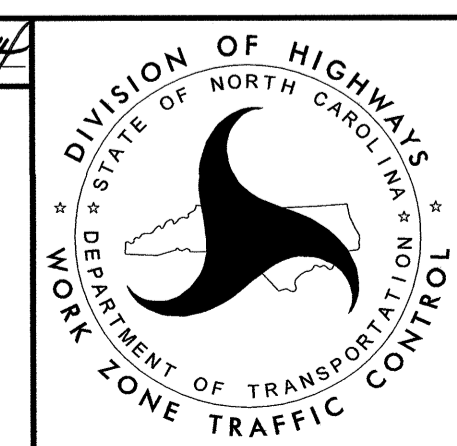
STEP 1 -- WITH TRAFFIC IN THE OUTSIDE THRU LANES, ADJUST DRAINAGE STRUCTURES 413 AND 414 AND CONSTRUCT REMAINING MONOLITHIC CONCRETE ISLANDS (SEE TMP-17 THRU TMP-20.)

STEP 2 -- USING FLAGGERS AND ALTERNATING LANE CLOSURES (RSD 1101.02, SHEET 1 AND 3), PLACE THE FINAL LAYER LAYER OF SURFACE COURSE, FINAL MARKINGS AND MARKERS THROUGHOUT AREA 1 AND OPEN AREA 1 TO THE FINAL PATTERN. (SEE FINAL PAVEMENT MARKING PLAN.)

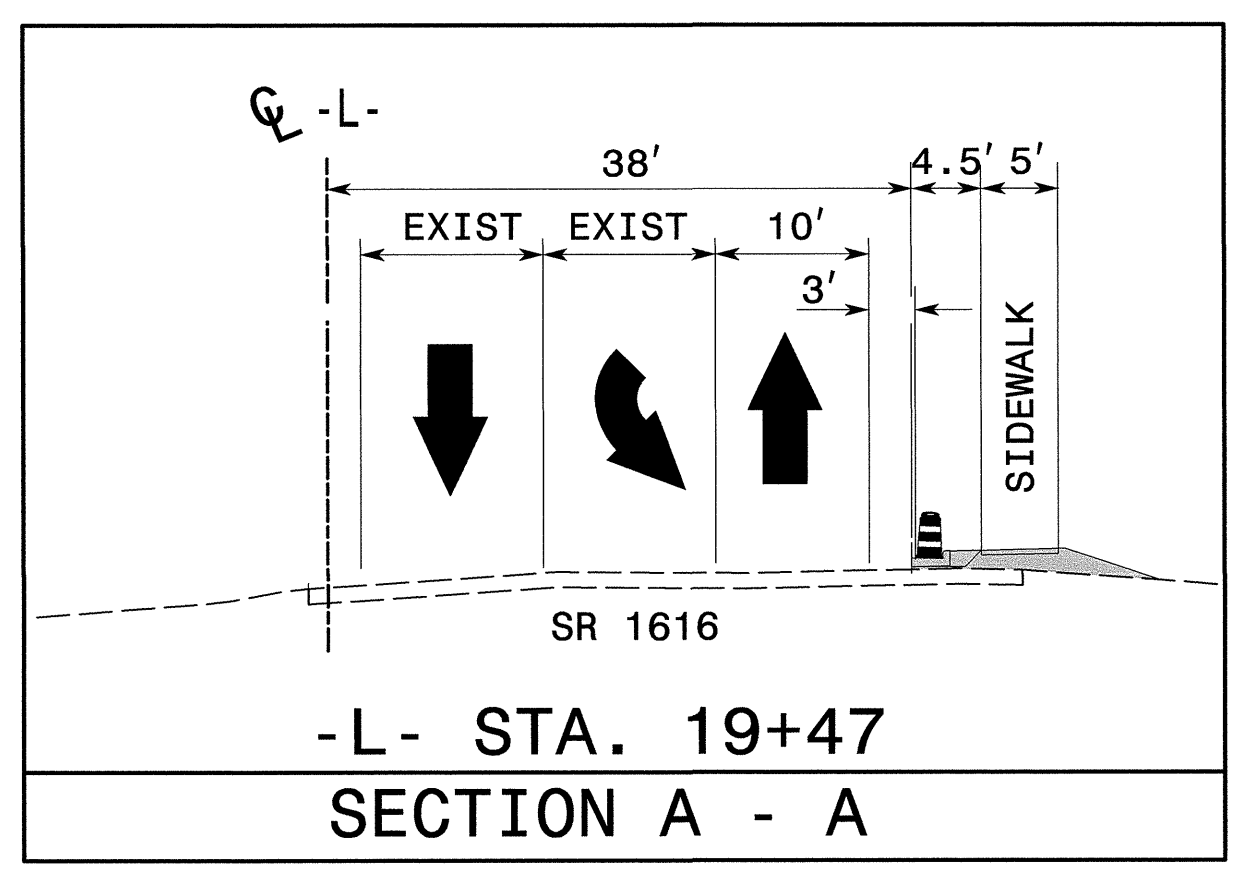
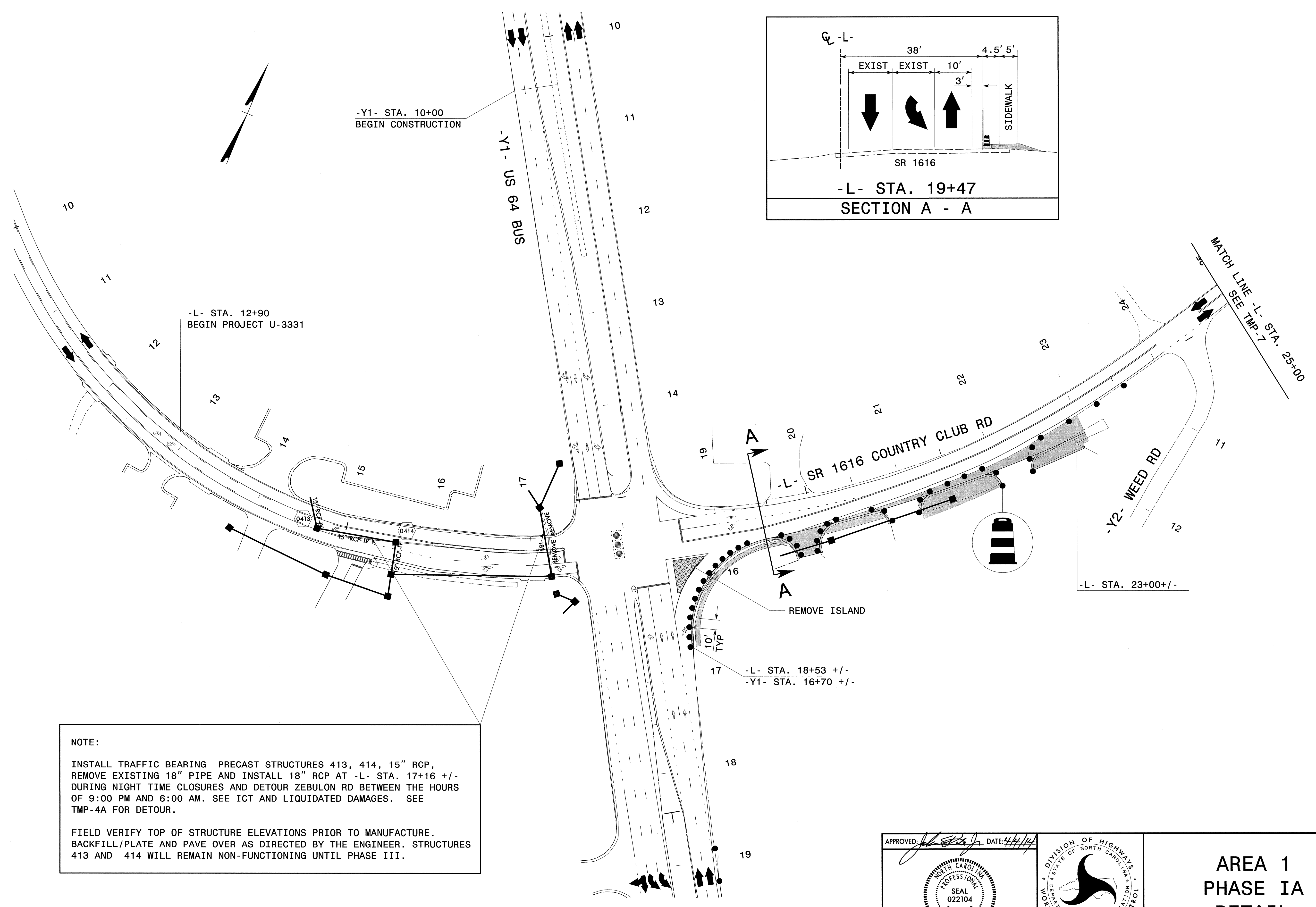
STEP 3 -- REMOVE ALL TRAFFIC CONTROL DEVICES.

4/21/2014 R:\TrafficControl\Top\FinalPlans - Revised\U-3331_IC_TMP_5 rev.dgn User:sdjennings

APPROVED:  DATE: 4/22/14

**AREA 1
TEMPORARY TRAFFIC
CONTROL PHASING**



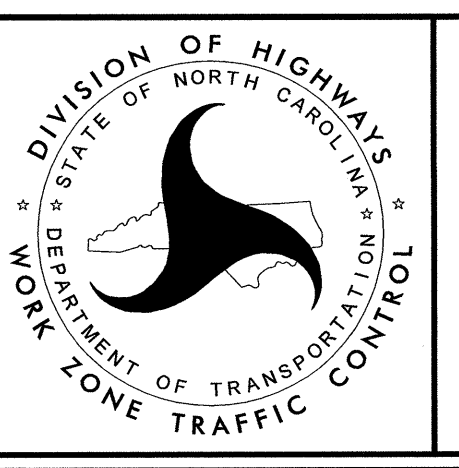
NOTE:

INSTALL TRAFFIC BEARING PRECAST STRUCTURES 413, 414, 15" RCP, REMOVE EXISTING 18" PIPE AND INSTALL 18" RCP AT -L- STA. 17+16 +/- DURING NIGHT TIME CLOSURES AND DETOUR ZEBULON RD BETWEEN THE HOURS OF 9:00 PM AND 6:00 AM. SEE ICT AND LIQUIDATED DAMAGES. SEE TMP-4A FOR DETOUR.

FIELD VERIFY TOP OF STRUCTURE ELEVATIONS PRIOR TO MANUFACTURE. BACKFILL/PLATE AND PAVE OVER AS DIRECTED BY THE ENGINEER. STRUCTURES 413 AND 414 WILL REMAIN NON-FUNCTIONING UNTIL PHASE III.

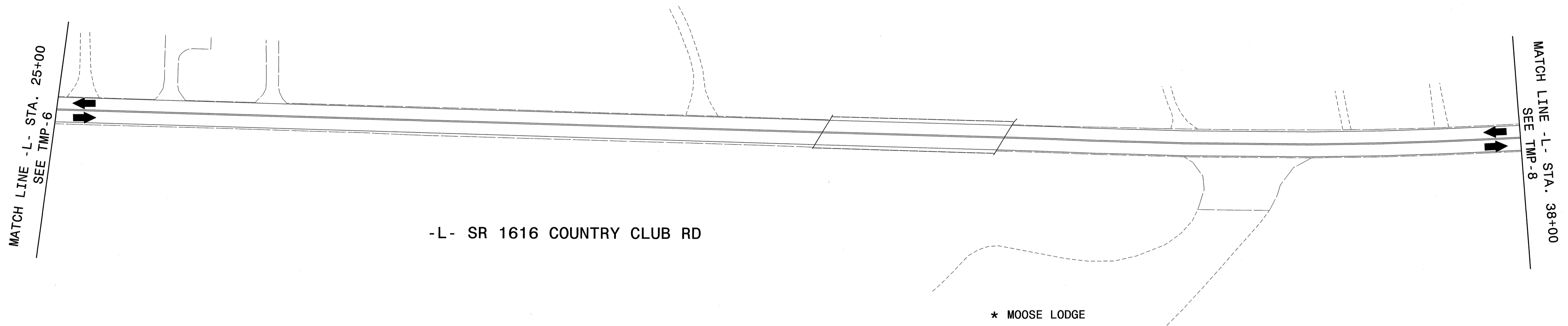
APPROVED: *[Signature]* DATE: 4/14/14

PROFESSIONAL SEAL 022104
ENGINEER
JOHN S. KITE, JR.



**AREA 1
PHASE IA
DETAIL**

4/3/2014
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 User:rsbjennings



-L- SR 1616 COUNTRY CLUB RD

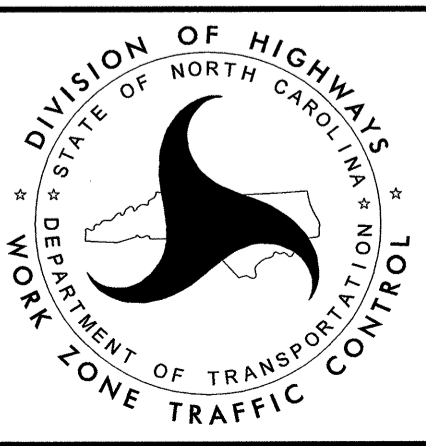
* MOOSE LODGE

THIS SECTION OPEN IN PHASE I-A,
CLOSED IN PHASE I-B

* NOTE: MAINTAIN ACCESS TO MOOSE LODGE AT ALL TIMES OR AS DIRECTED BY ENGINEER.

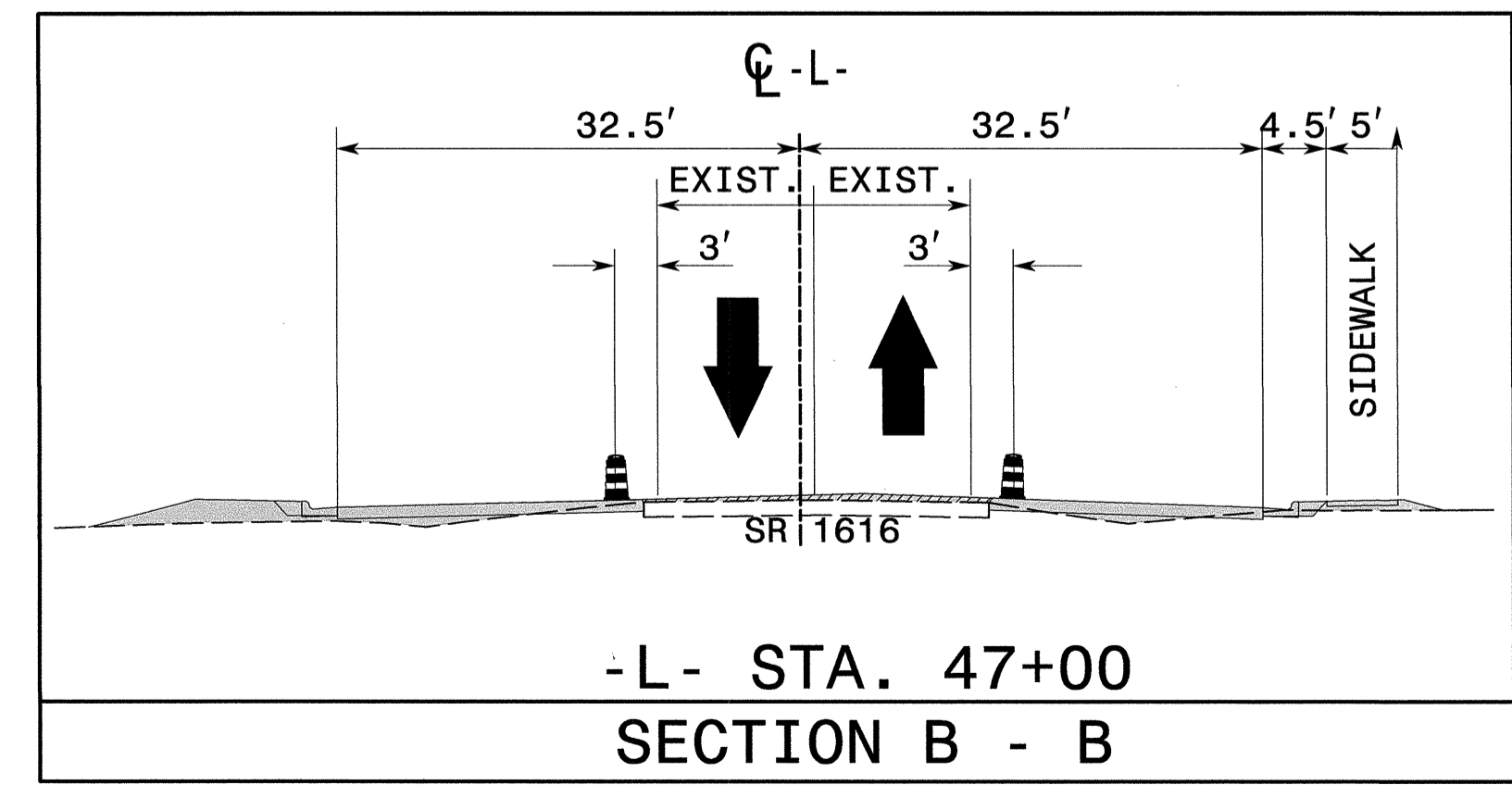
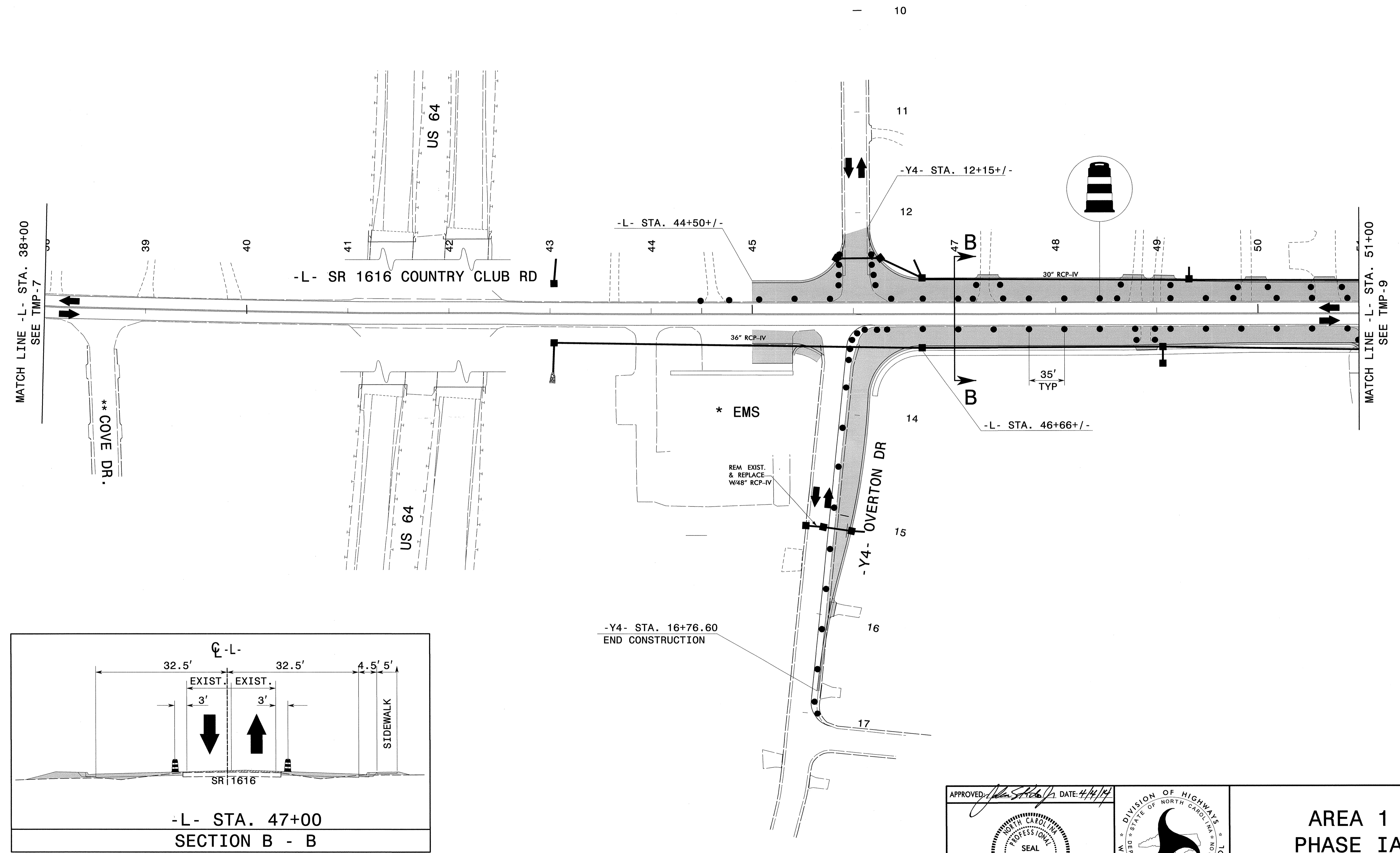
4/3/2014
R:\TrafficControl\Top\Revision to Areas U-3331 TC TMP-7.dgn
User: sbjennings

APPROVED: *[Signature]* DATE: 4/14/14


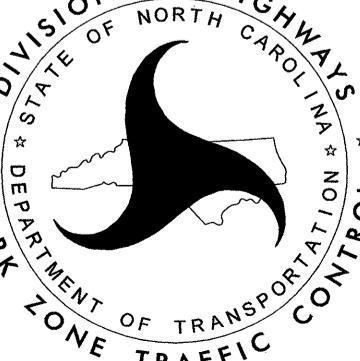


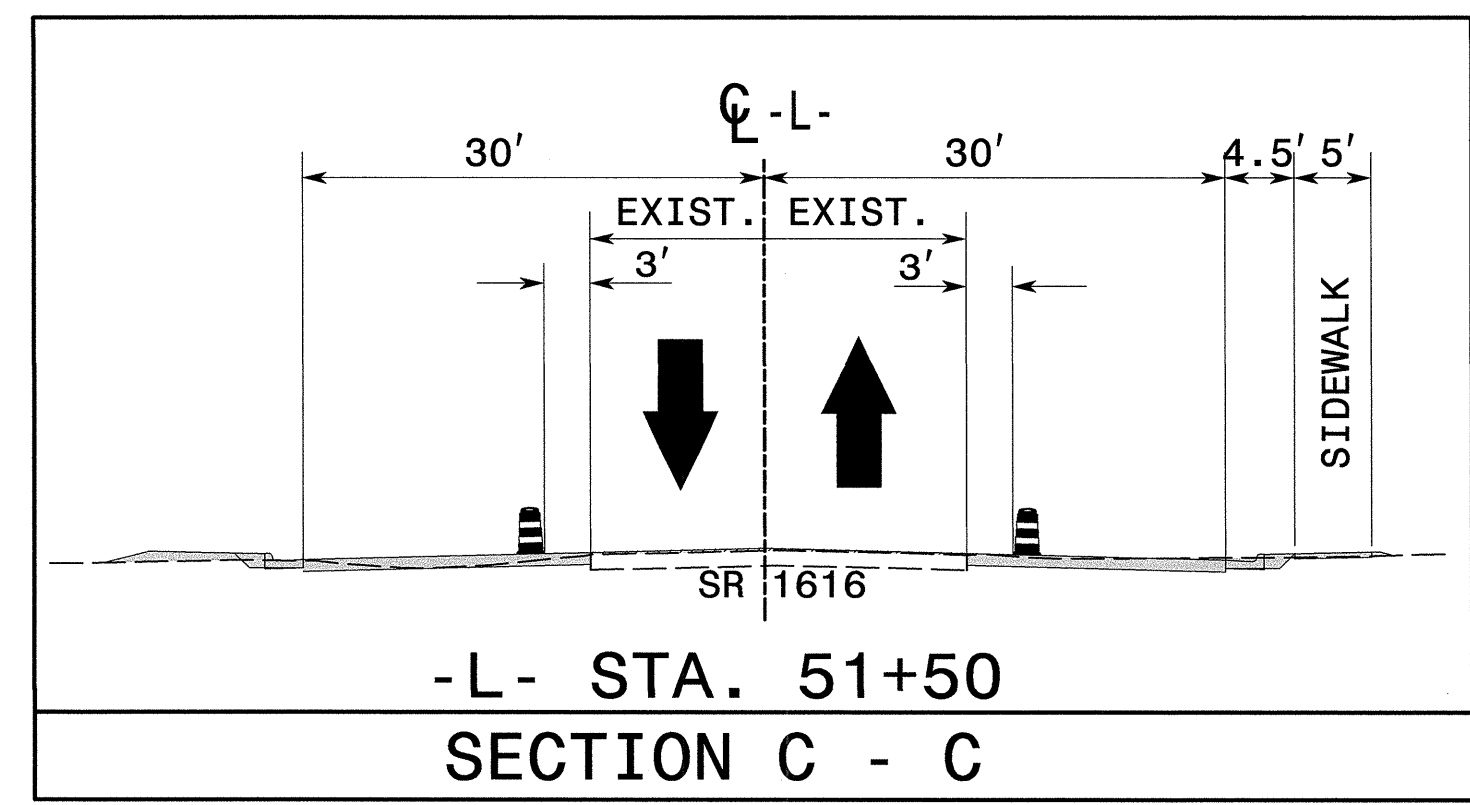
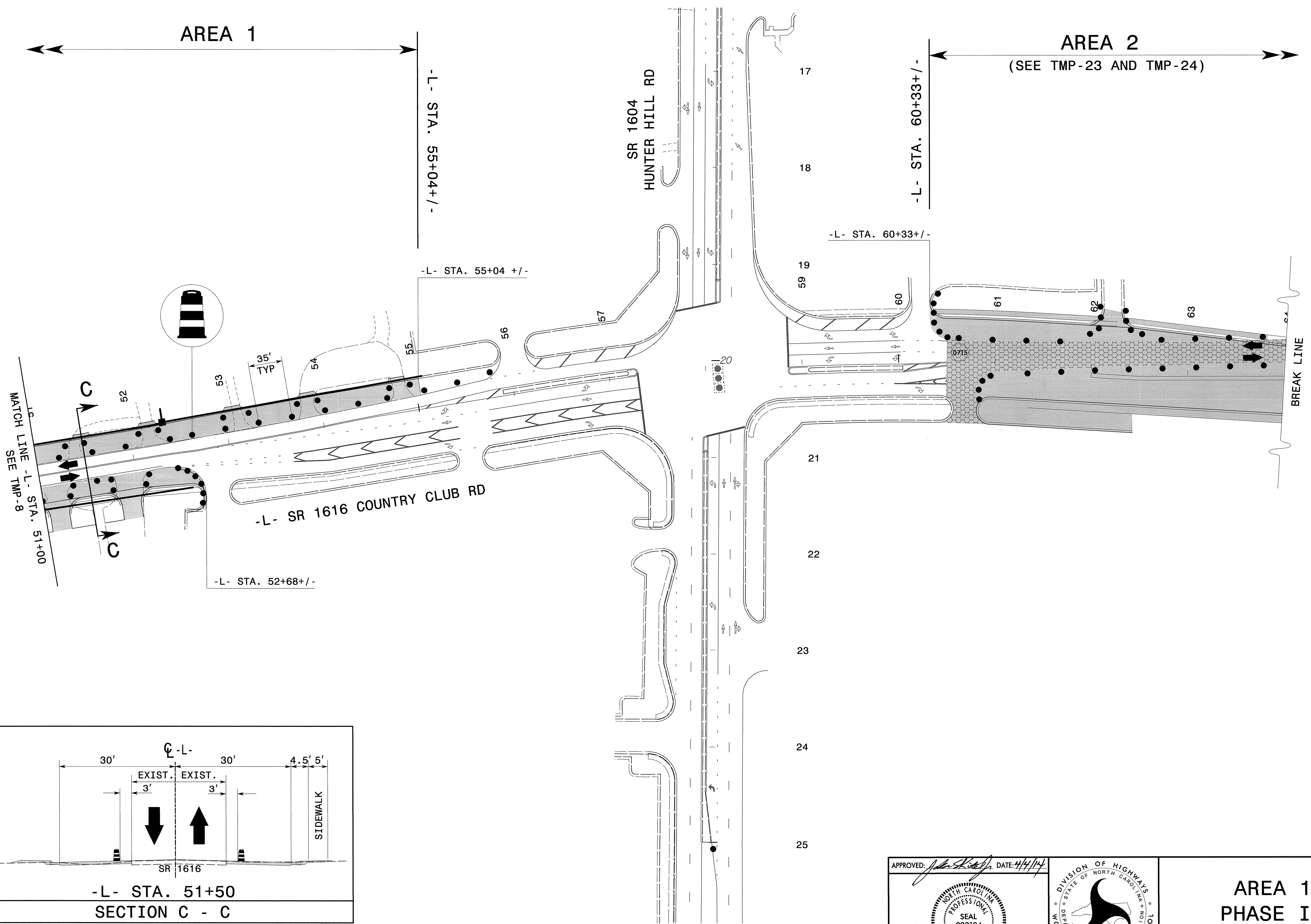
AREA 1
PHASE IA
DETAIL

* NOTE: MAINTAIN ACCESS TO EMS AT ALL TIMES OR AS DIRECTED BY ENGINEER.
 ** ACCESS TO COVE DR. DOES NOT NEED TO BE MAINTAINED DURING CONSTRUCTION



4/3/2014 R:\TrafficControl\tp\Revision to Areas\U-3331_TC_TMP_8.dgn User: sbjennings

APPROVED: <i>[Signature]</i> DATE: 4/14/14 		<h2>AREA 1 PHASE IA DETAIL</h2>
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4/3/2014
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 User: sbjennings

APPROVED: <i>[Signature]</i> DATE: 4/4/14 		<h2>AREA 1 PHASE IA DETAIL</h2>
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* SEE TMP-4

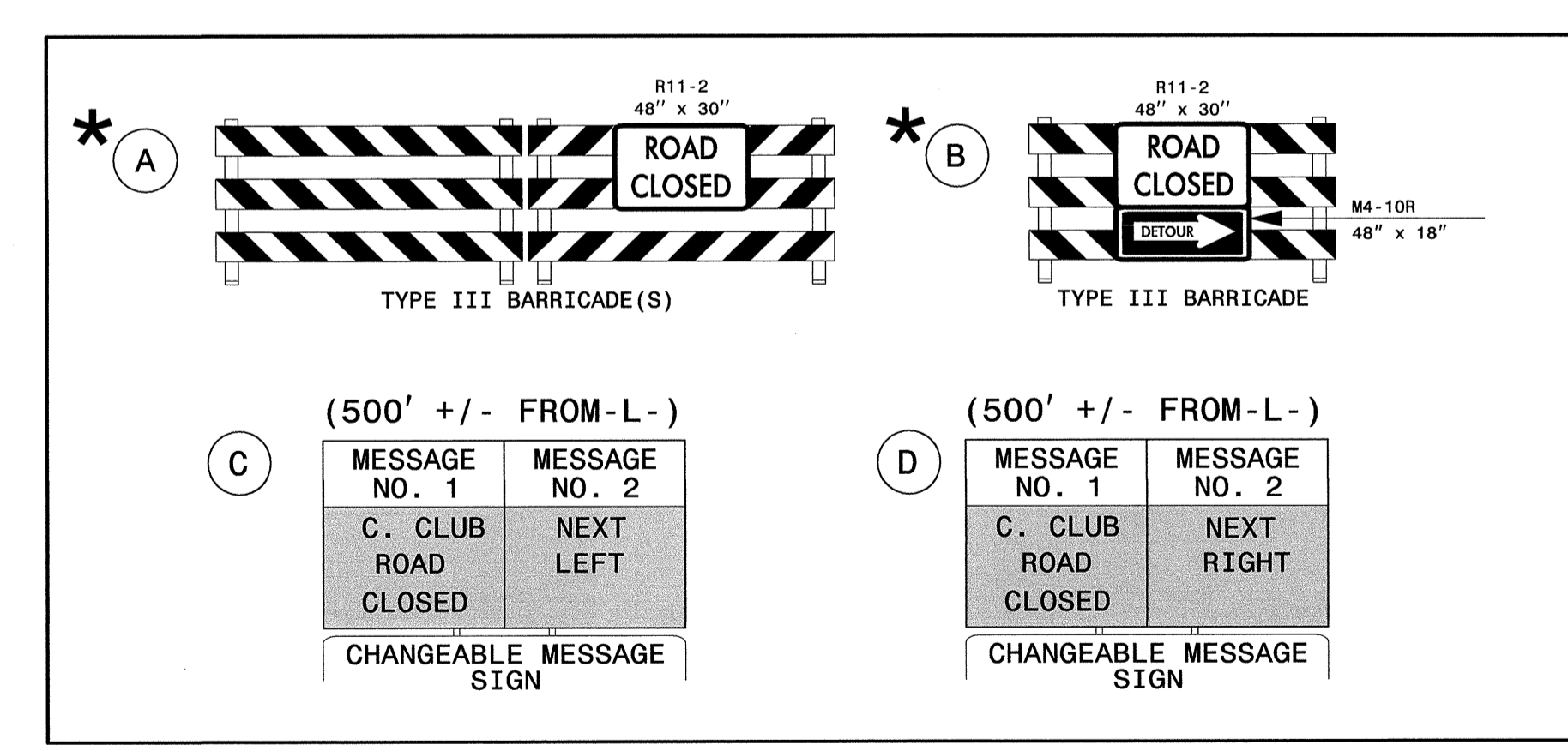
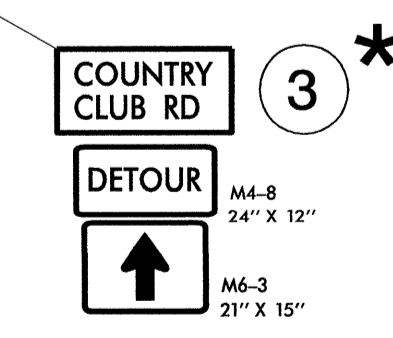
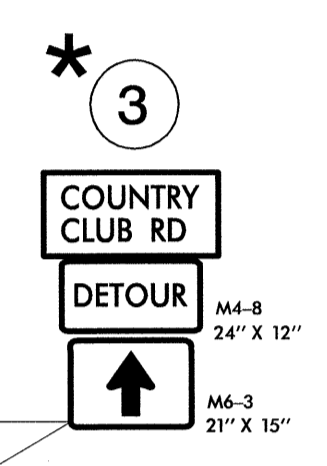
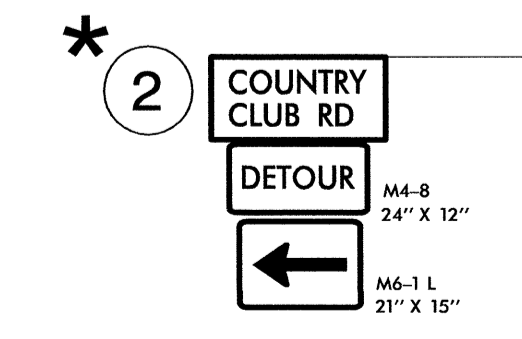
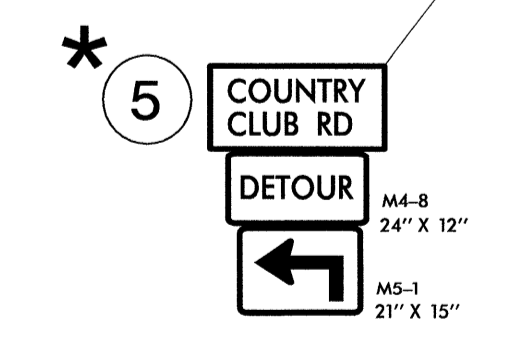
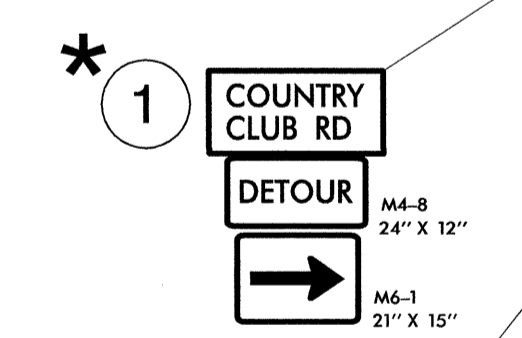
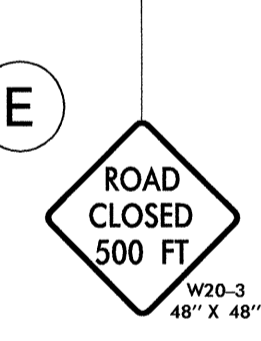
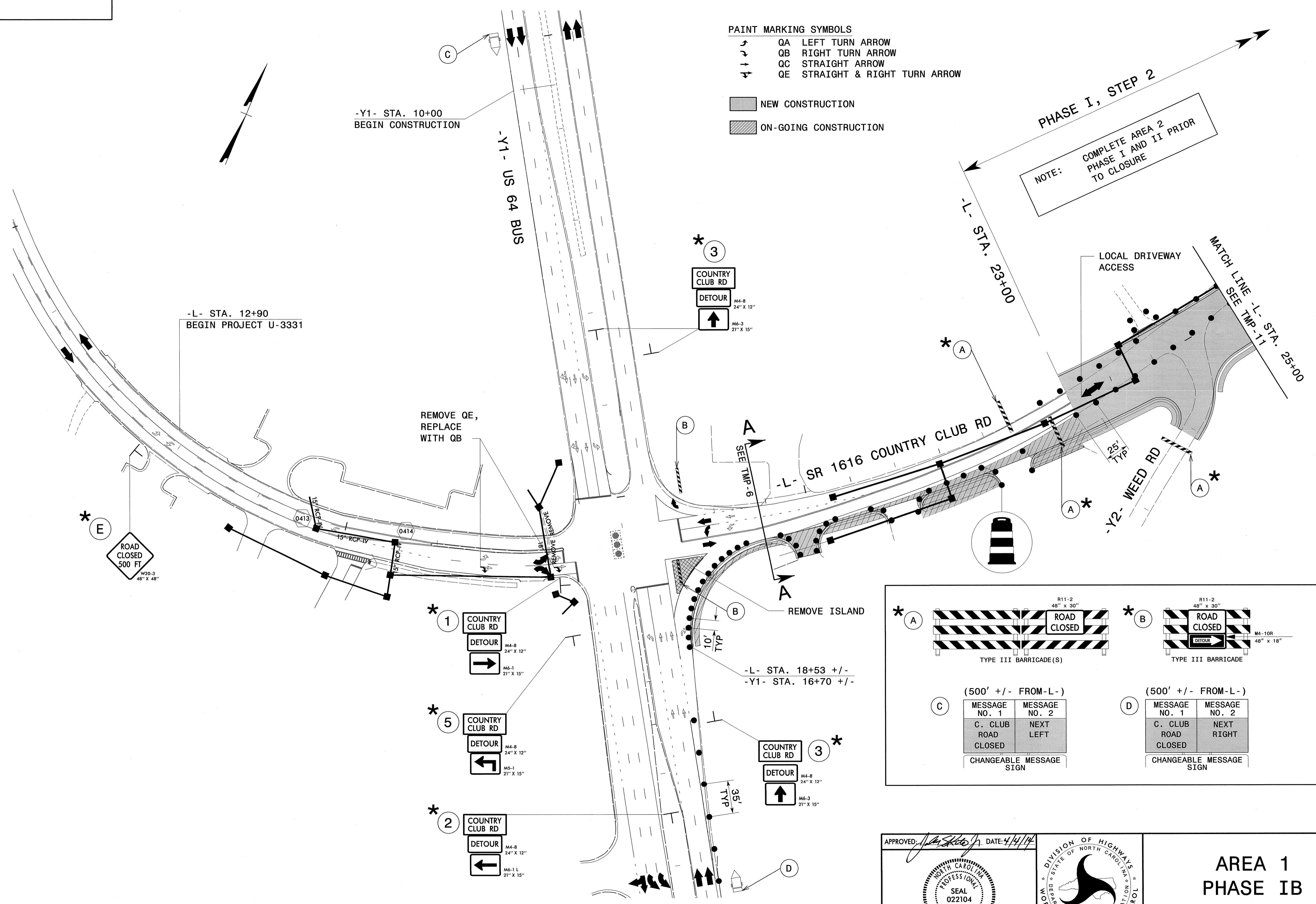
PAINT MARKING SYMBOLS

- ↙ QA LEFT TURN ARROW
- ↘ QB RIGHT TURN ARROW
- QC STRAIGHT ARROW
- ↘ QE STRAIGHT & RIGHT TURN ARROW

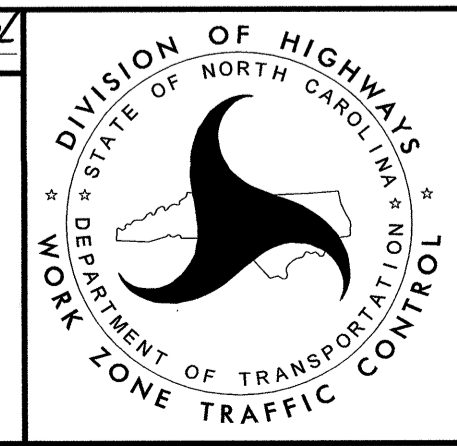
■ NEW CONSTRUCTION
 ▨ ON-GOING CONSTRUCTION

PHASE I, STEP 2

NOTE: COMPLETE AREA 2 PHASE I AND II PRIOR TO CLOSURE



APPROVED: *[Signature]* DATE: 4/4/14

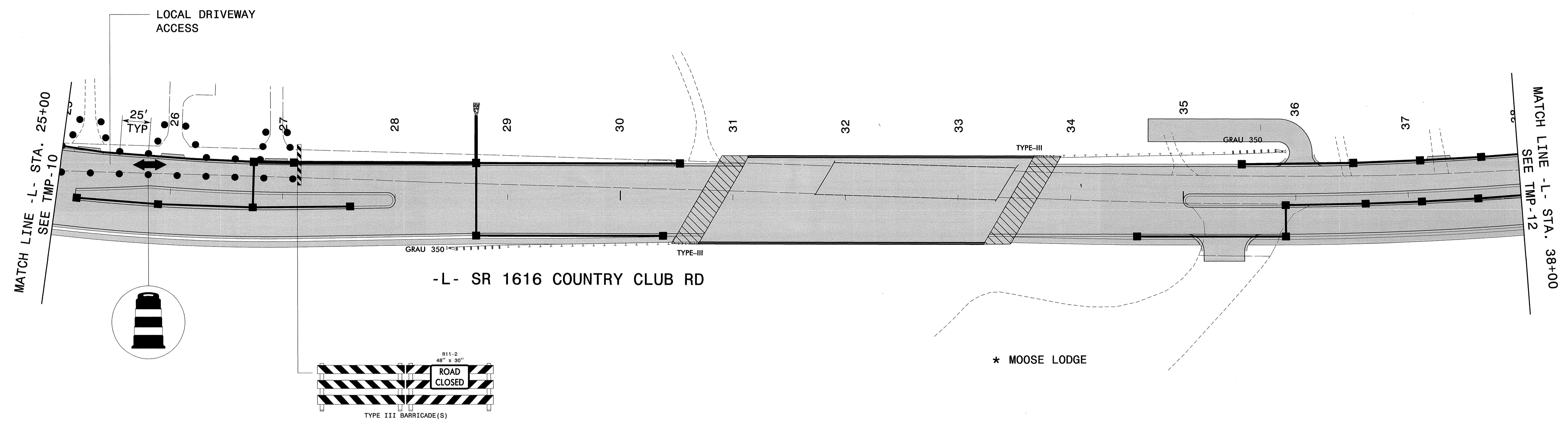


**AREA 1
 PHASE IB
 DETAIL**

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PHASE IB, STEP 2

NOTE: COMPLETE AREA 2
PHASE I AND II PRIOR
TO CLOSURE



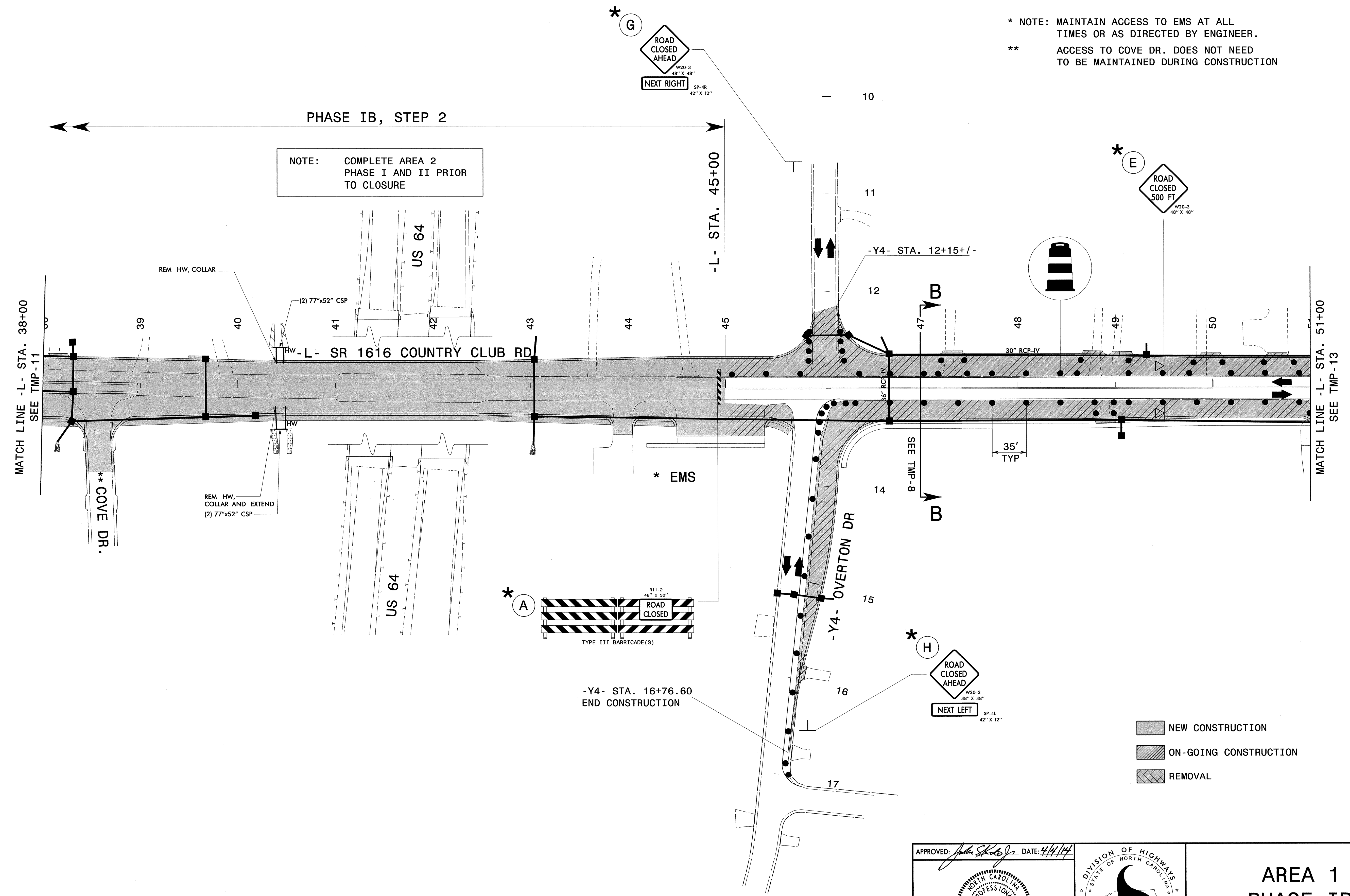
* NOTE: MAINTAIN ACCESS TO MOOSE LODGE AT ALL TIMES OR AS DIRECTED BY ENGINEER.

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<p>APPROVED: <i>[Signature]</i> DATE: 4/4/14</p>	<p>DIVISION OF HIGHWAYS STATE OF NORTH CAROLINA DEPARTMENT OF TRANSPORTATION WORK ZONE TRAFFIC CONTROL</p>	<p>AREA 1 PHASE IB DETAIL</p>
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* SEE TMP-4

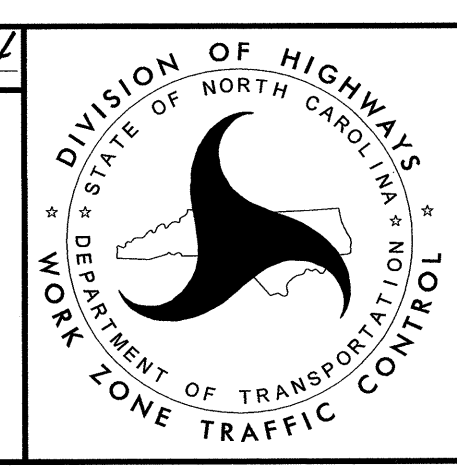
* NOTE: MAINTAIN ACCESS TO EMS AT ALL TIMES OR AS DIRECTED BY ENGINEER.
 ** ACCESS TO COVE DR. DOES NOT NEED TO BE MAINTAINED DURING CONSTRUCTION



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APPROVED: *[Signature]* DATE: 4/4/14

PROFESSIONAL SEAL
 SEAL 022104
 ENGINEER
 JOHN S. KITE, P.E.



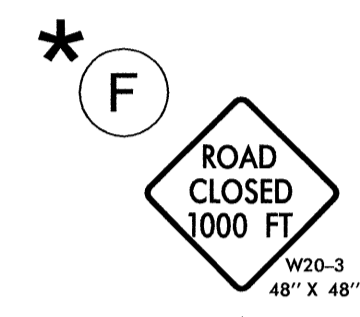
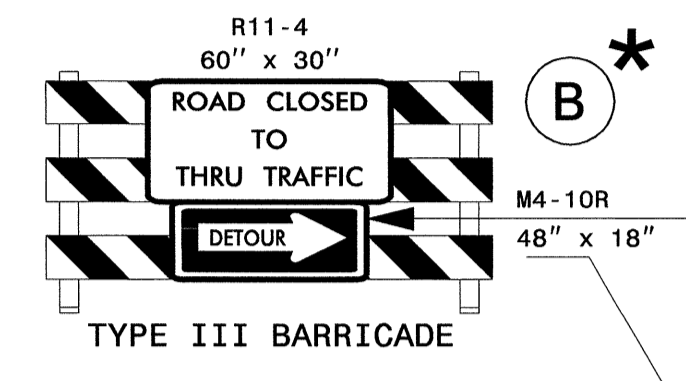
**AREA 1
 PHASE IB
 DETAIL**

AREA 1 ←-----→ AREA 2

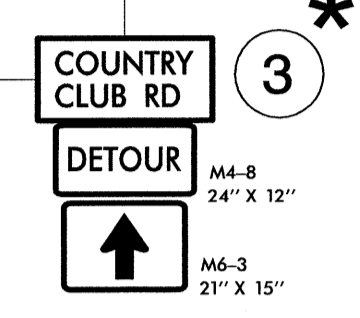
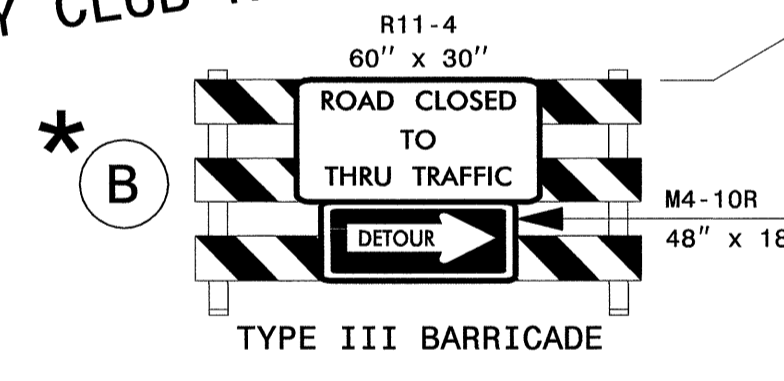
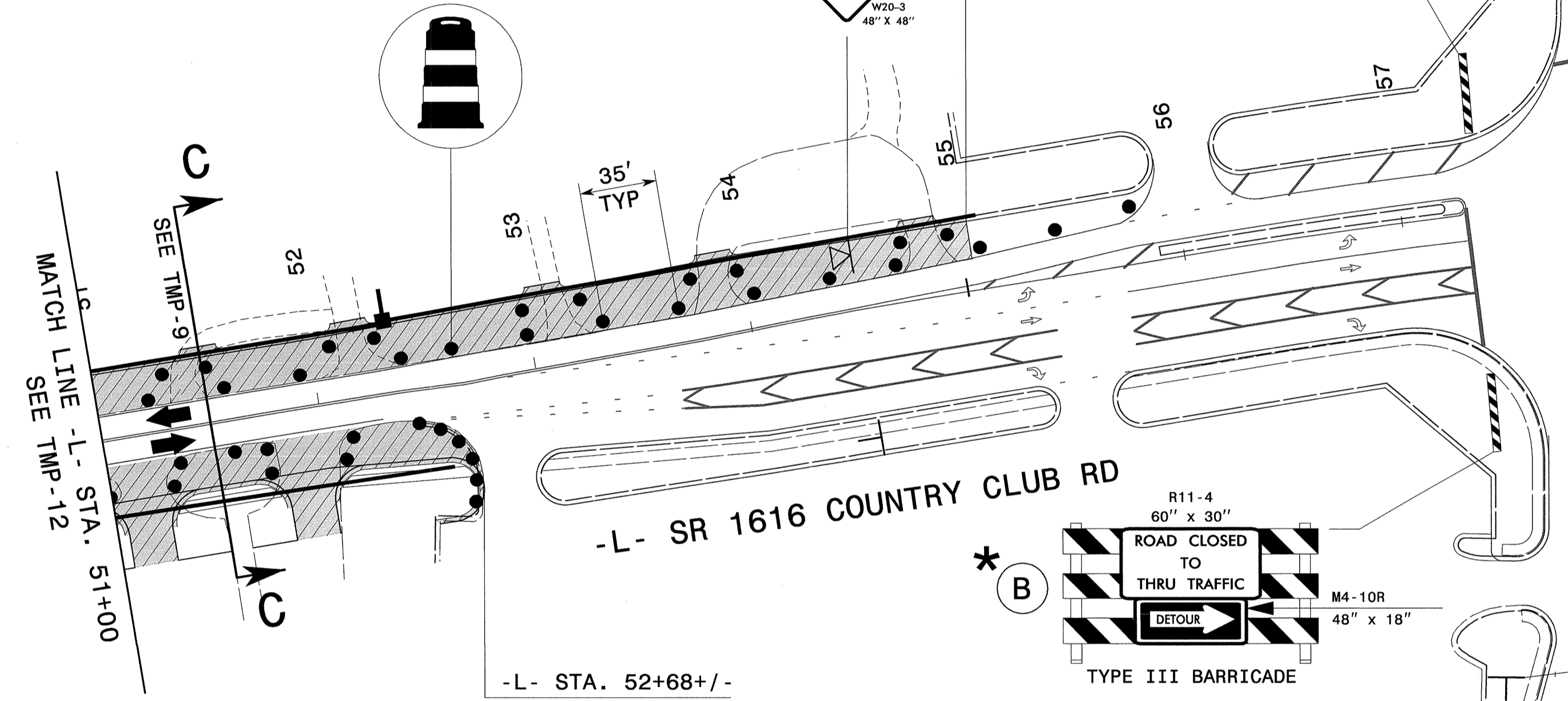
ON-GOING CONSTRUCTION

(500' +/- FROM-L-)

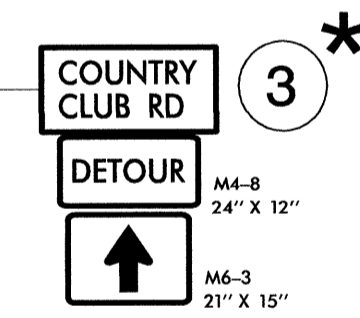
MESSAGE NO. 1	MESSAGE NO. 2
C. CLUB CLOSED NEXT RT	LOCAL TRAFFIC ONLY
CHANGEABLE MESSAGE SIGN	



-L- STA. 55+04 +/-



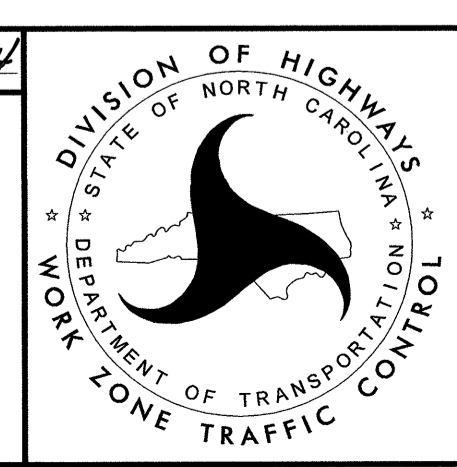
-L- STA. 60+33 +/-



MESSAGE NO. 1	MESSAGE NO. 2
C. CLUB CLOSED NXT LEFT	LOCAL TRAFFIC ONLY
CHANGEABLE MESSAGE SIGN	

* SEE TMP-4

APPROVED: *[Signature]* DATE: 4/4/14



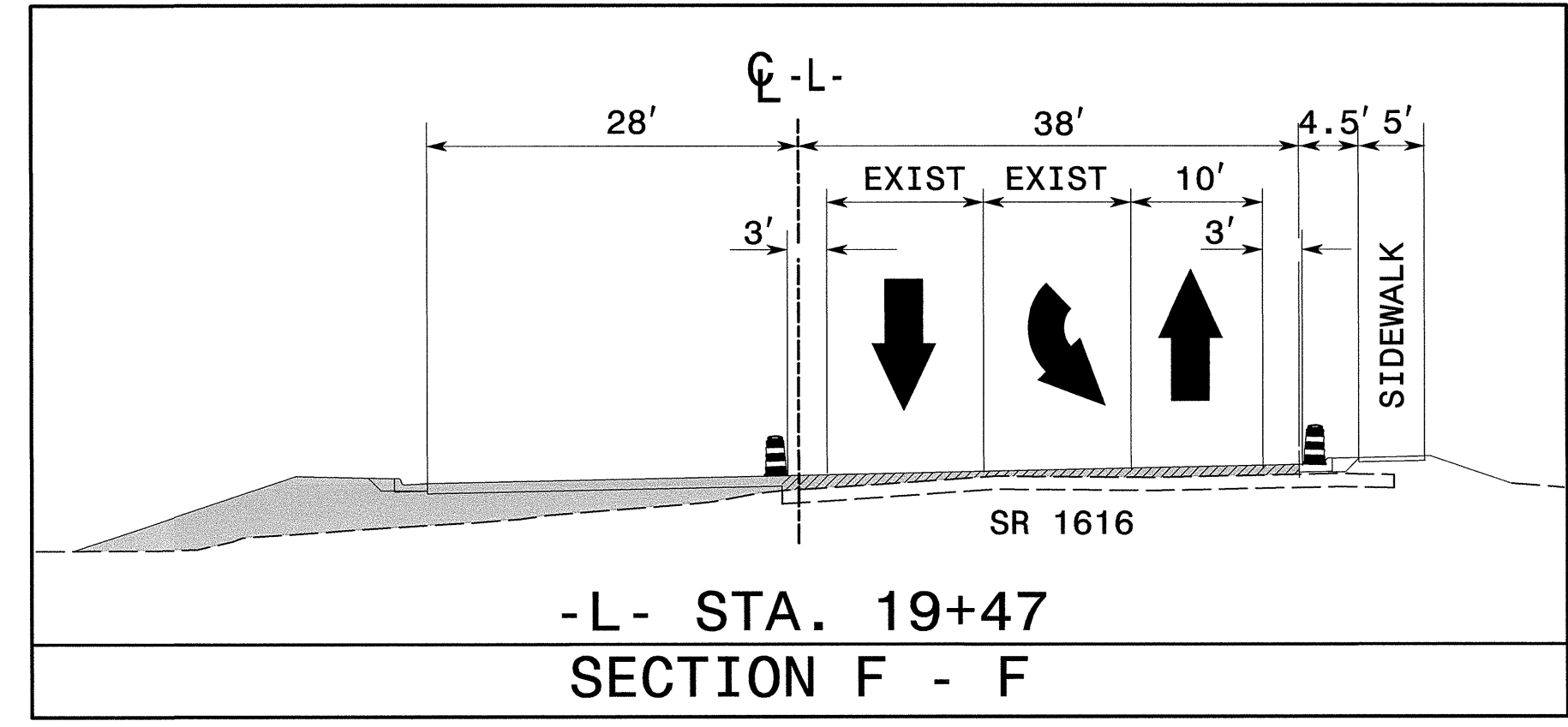
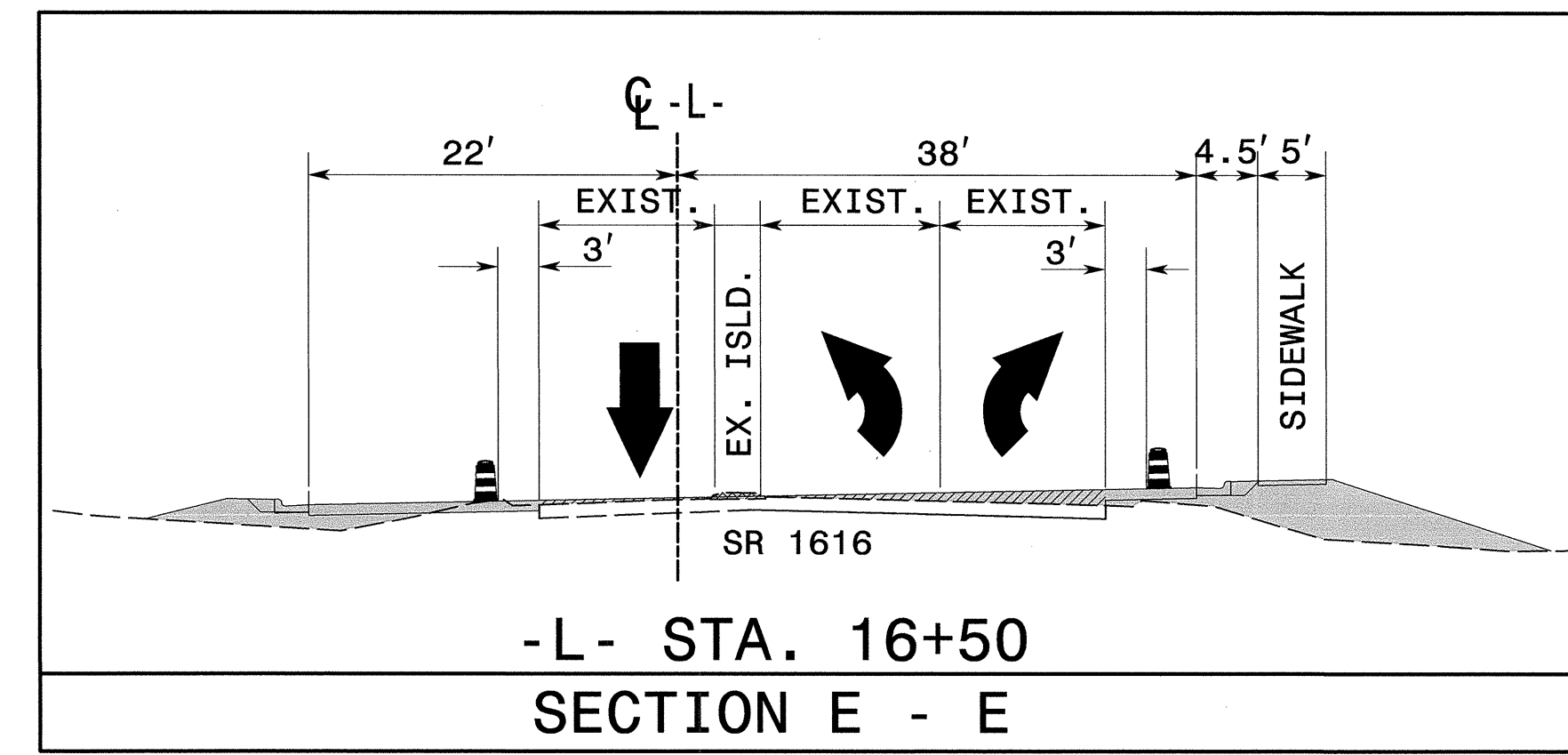
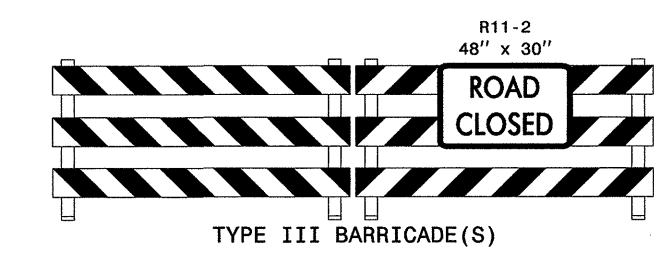
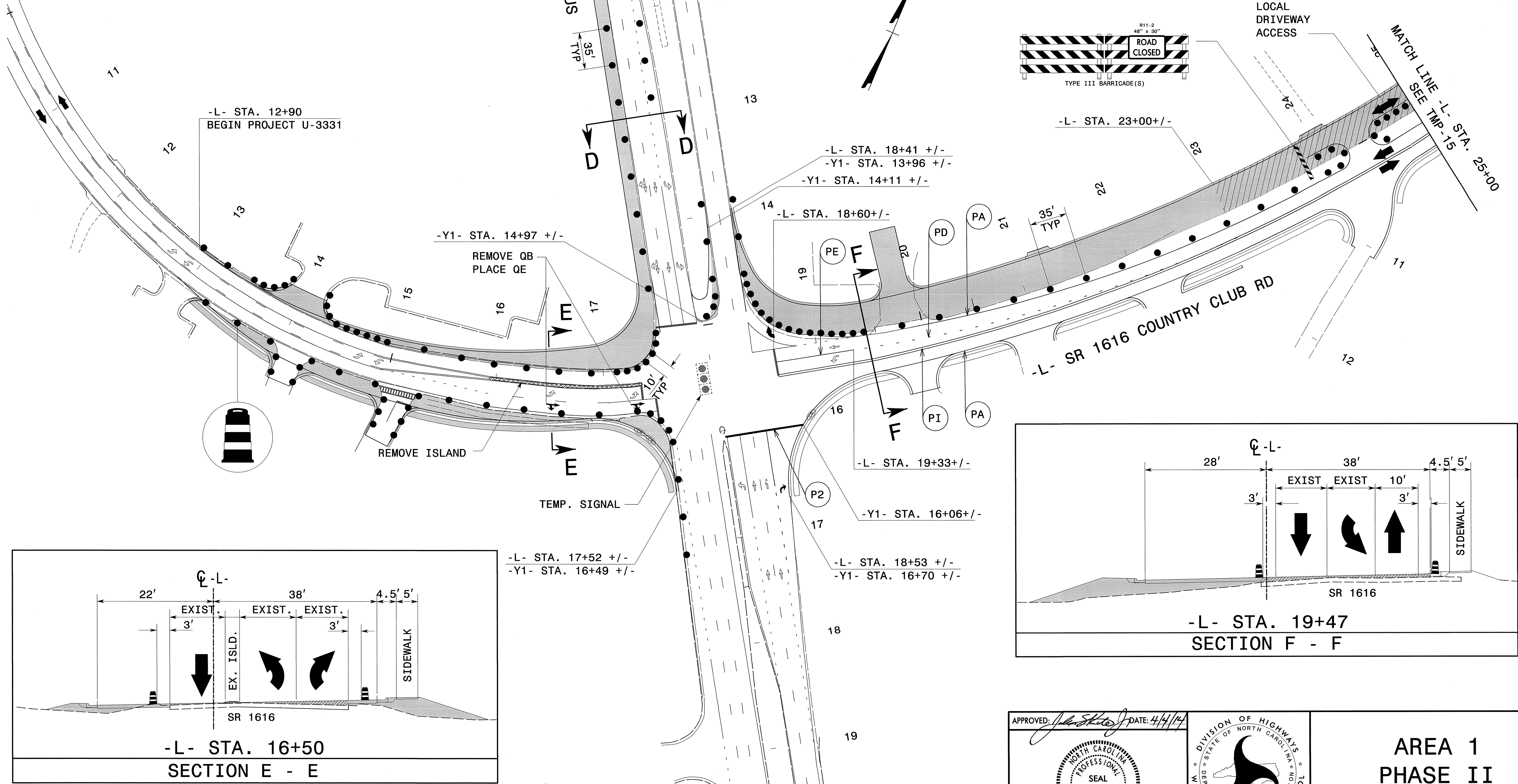
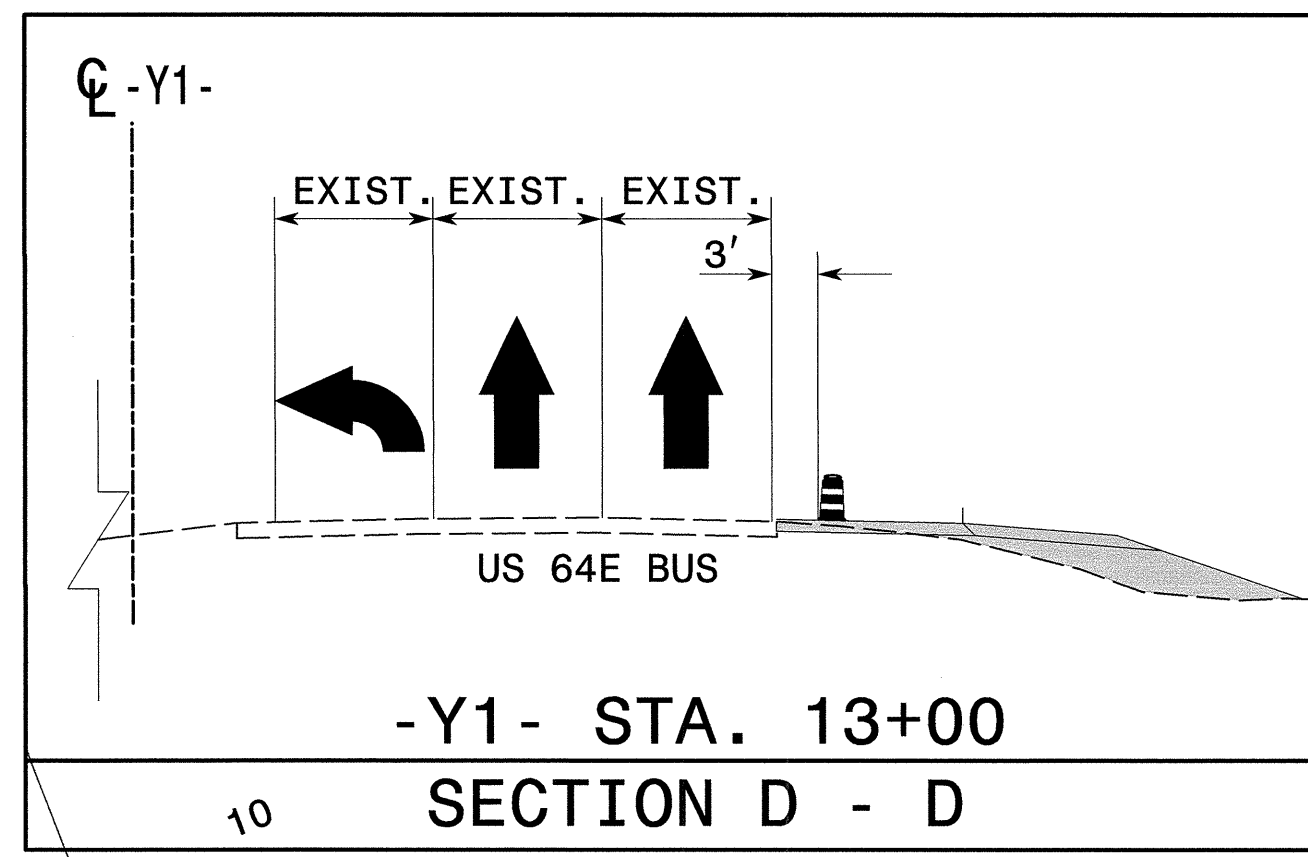
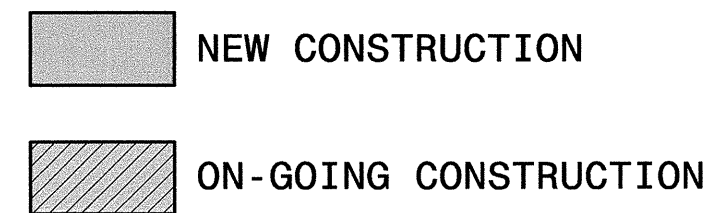
AREA 1
PHASE IB
DETAIL

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PAINT MARKING SYMBOLS

	QA LEFT TURN ARROW
	QB RIGHT TURN ARROW
	QC STRAIGHT ARROW
	QE STRAIGHT & RIGHT TURN ARROW

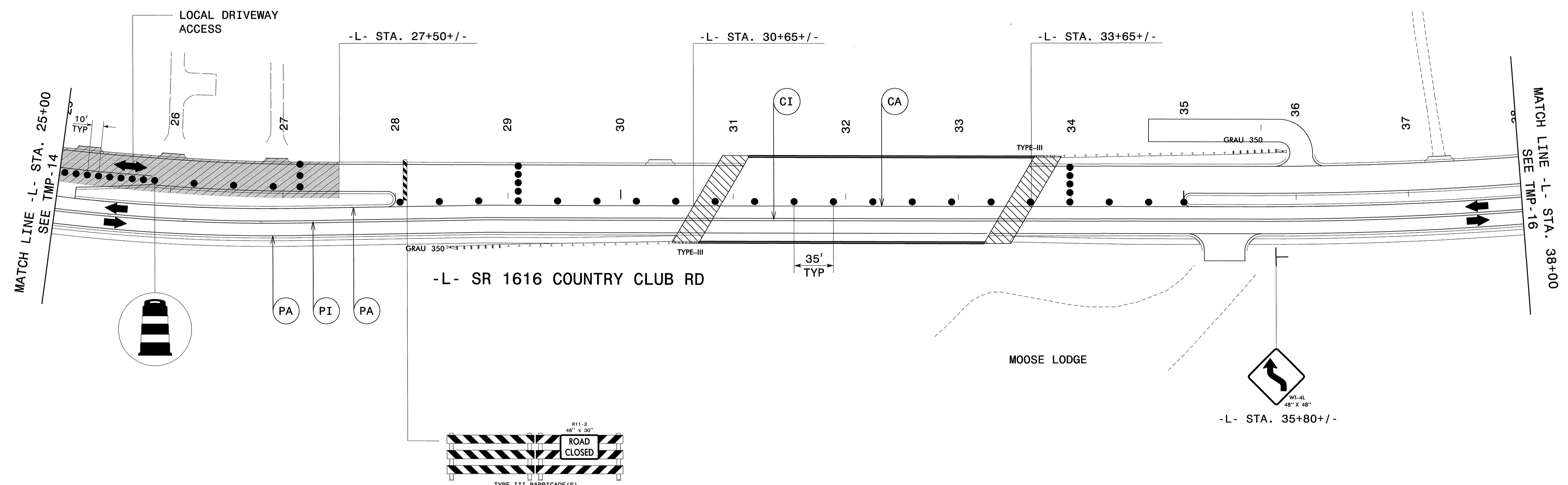
- NOTES:**
- REFER TO FINAL PAVEMENT MARKING PLAN FOR ANY TEMPORARY PAVEMENT MARKING NOT IDENTIFIED.
 - ALL LANES ARE 12' WIDE UNLESS OTHERWISE SHOWN.



APPROVED: *[Signature]* DATE: 4/4/14

**AREA 1
PHASE II
DETAIL**

4/3/2014 R:\TrafficControl\top\Revision to Areas\U-3331_TC_TMP_14.dgn User: srbjennings

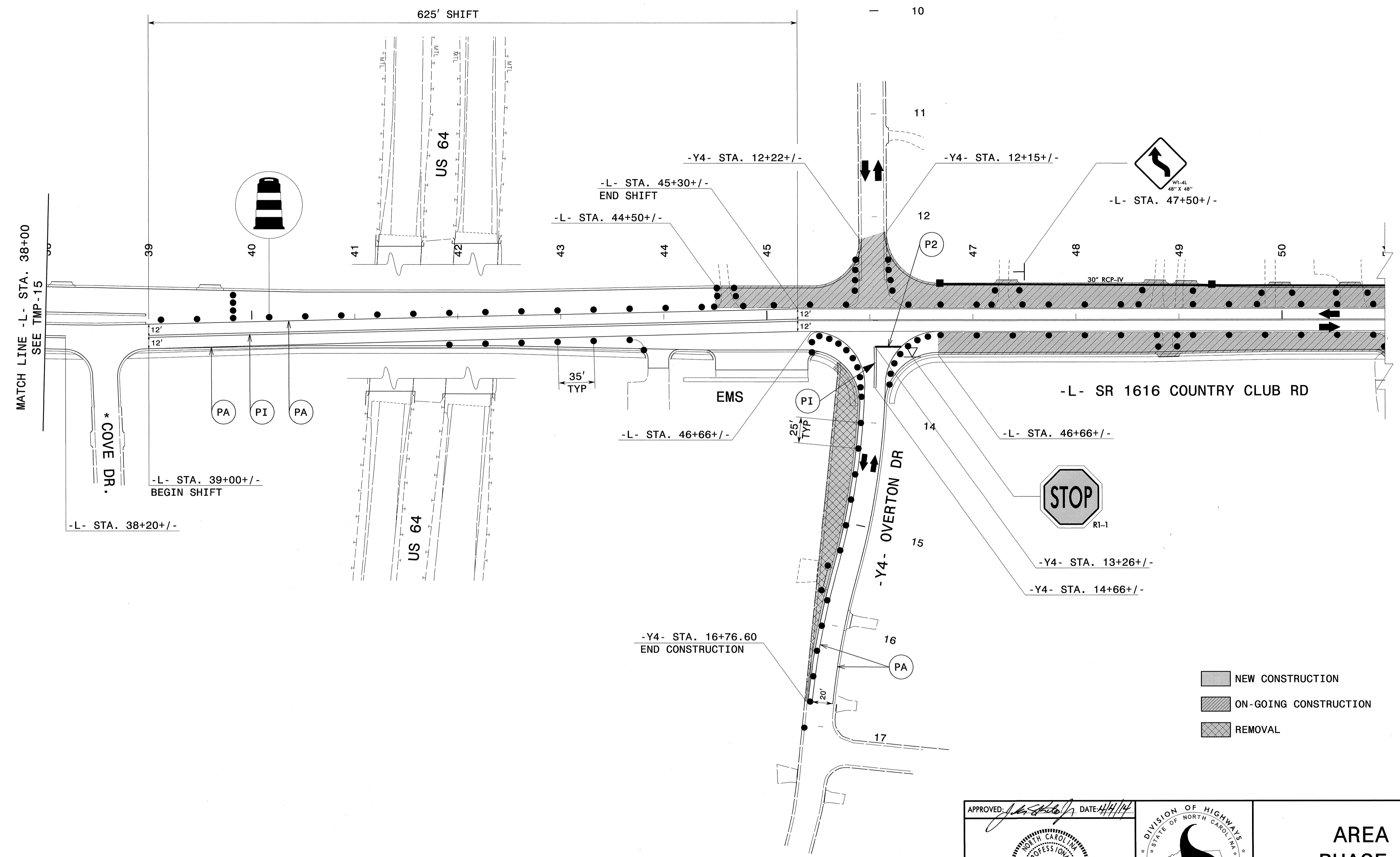





NEW CONSTRUCTION
 ON-GOING CONSTRUCTION

4/3/2014
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 User:isbjennings


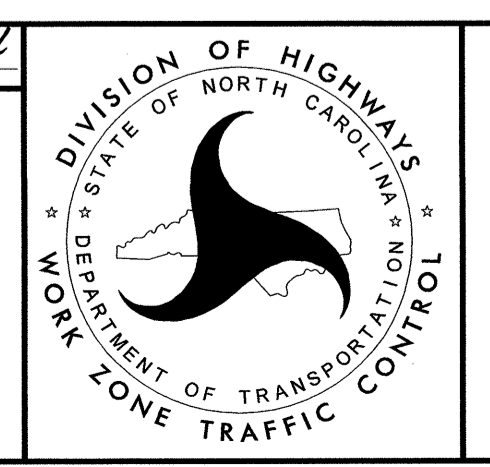
APPROVED: DATE: 4/14/14 	DIVISION OF HIGHWAYS STATE OF NORTH CAROLINA DEPARTMENT OF TRANSPORTATION WORK ZONE TRAFFIC CONTROL	<h2 style="margin: 0;">AREA 1 PHASE II DETAIL</h2>
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* NOTE:
ACCESS TO COVE DR. DOES NOT NEED
TO BE MAINTAINED DURING CONSTRUCTION



-  NEW CONSTRUCTION
-  ON-GOING CONSTRUCTION
-  REMOVAL

APPROVED: *[Signature]* DATE: 4/4/14

**AREA 1
PHASE II
DETAIL**

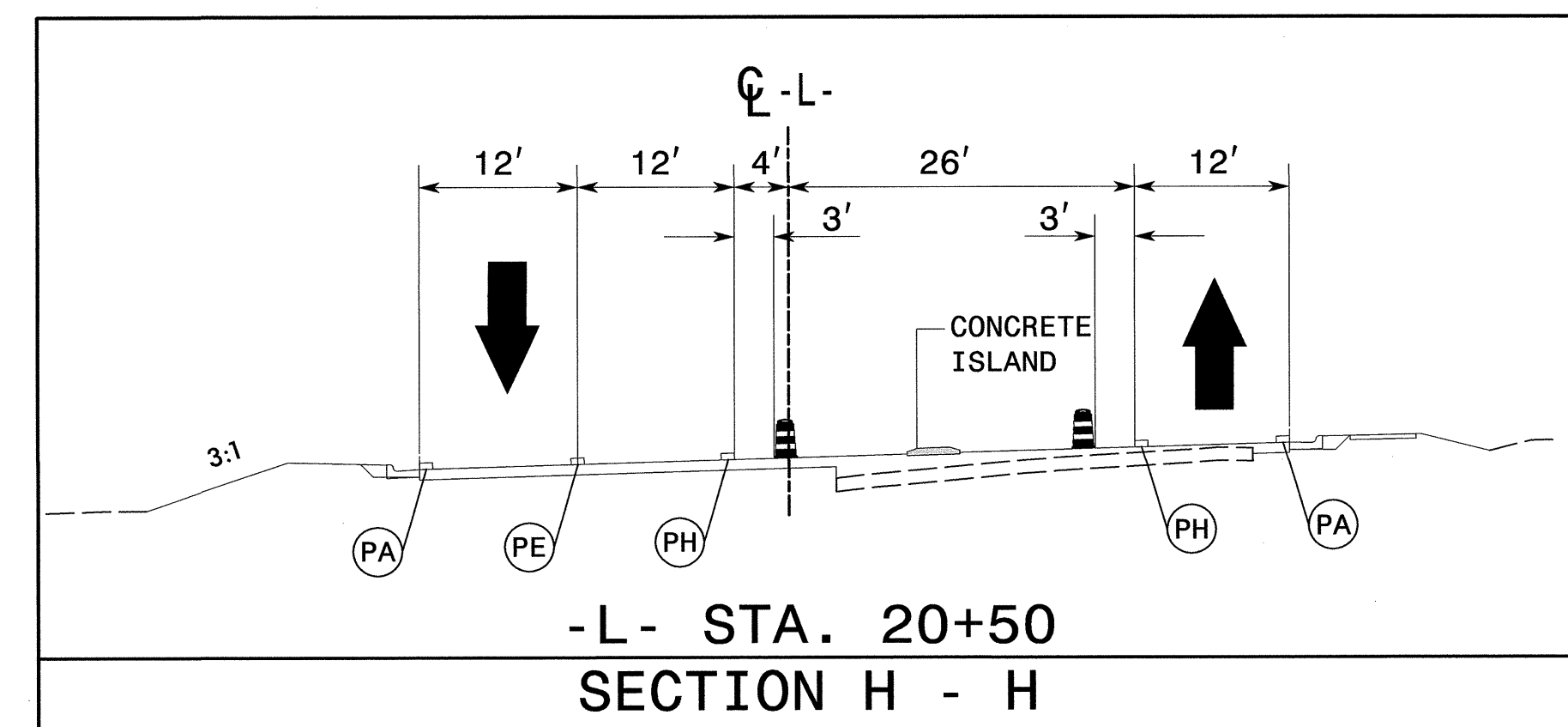
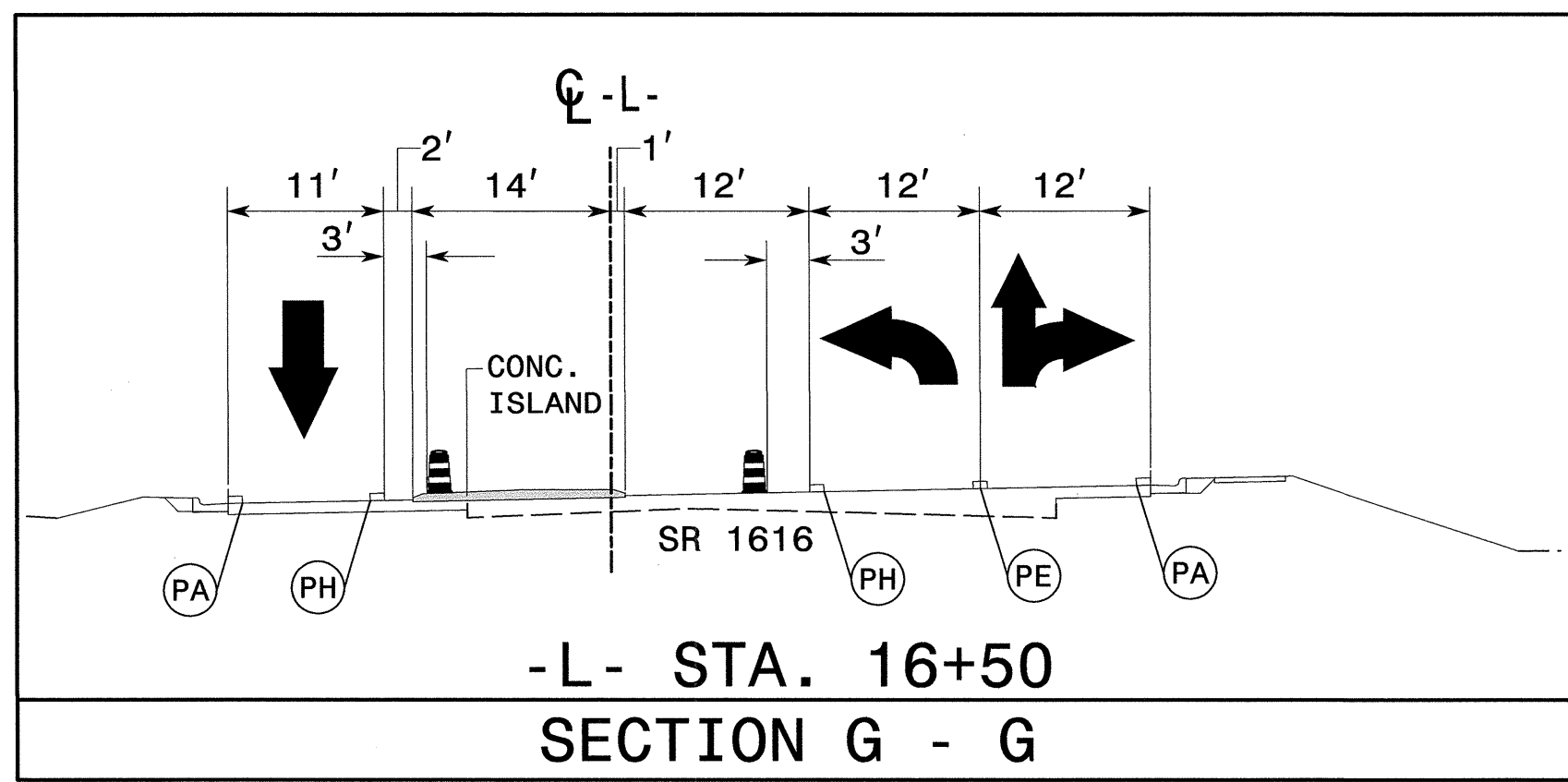
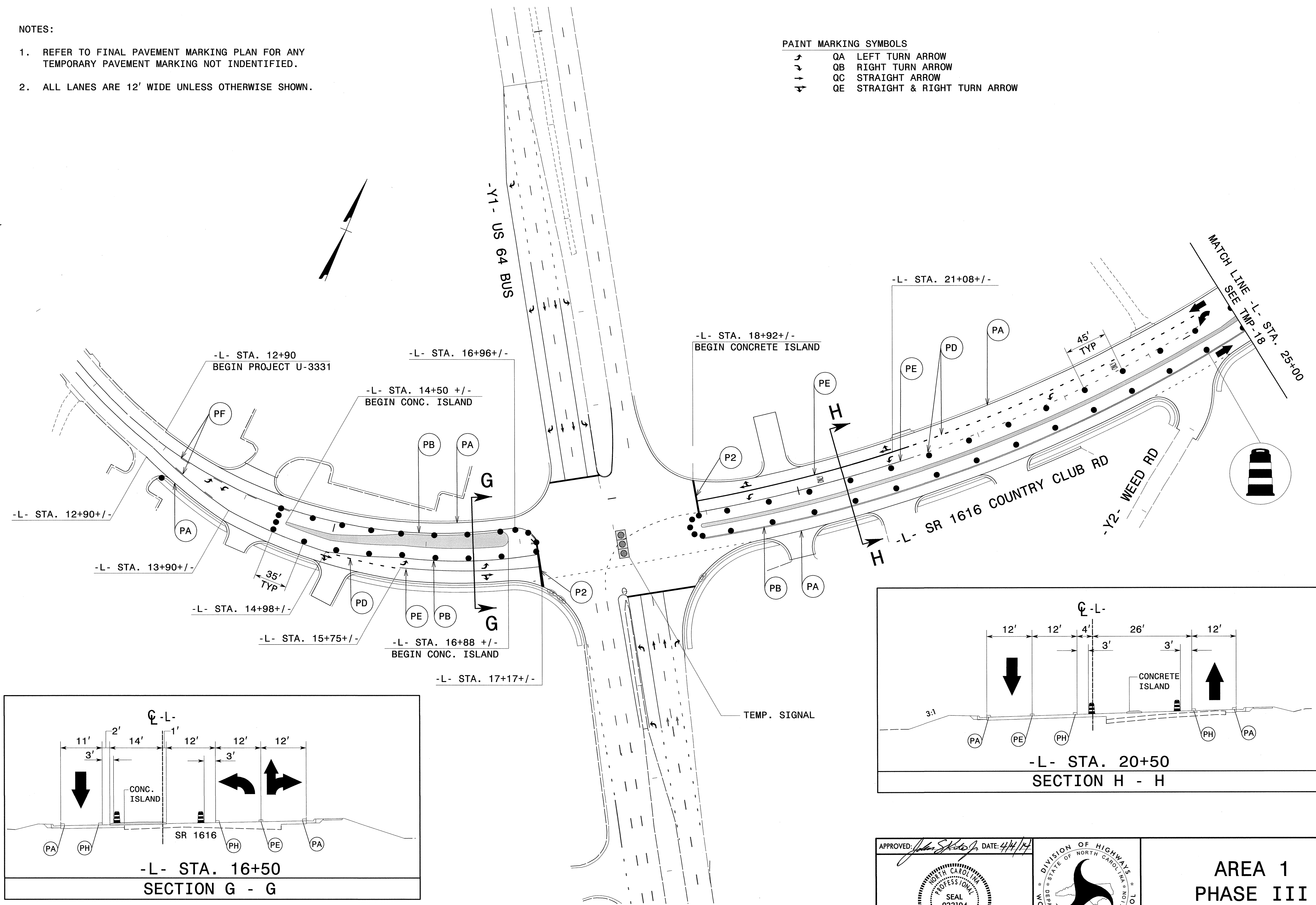
4/3/2014 R:\TrafficControl\top\Revision to Areas\U-3331_TC_TMP_16.dgn User: sbjennings

NOTES:

- REFER TO FINAL PAVEMENT MARKING PLAN FOR ANY TEMPORARY PAVEMENT MARKING NOT IDENTIFIED.
- ALL LANES ARE 12' WIDE UNLESS OTHERWISE SHOWN.

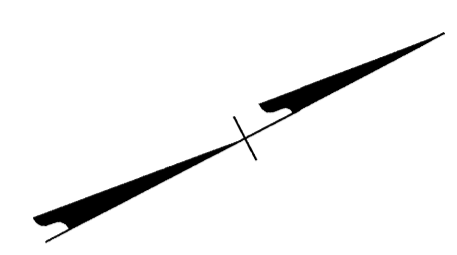
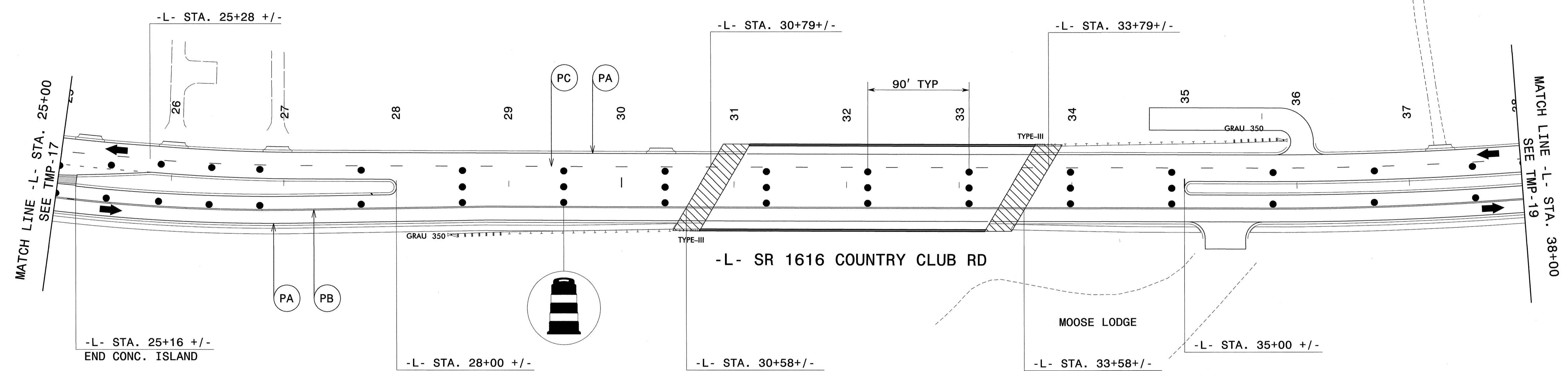
PAINT MARKING SYMBOLS

- | | | |
|--|----|-----------------------------|
| | QA | LEFT TURN ARROW |
| | QB | RIGHT TURN ARROW |
| | QC | STRAIGHT ARROW |
| | QE | STRAIGHT & RIGHT TURN ARROW |



4/3/2014 R:\TrafficControl\top\Revision to Areas U-3331_TC_TMP_17.dgn User:bsbjennings

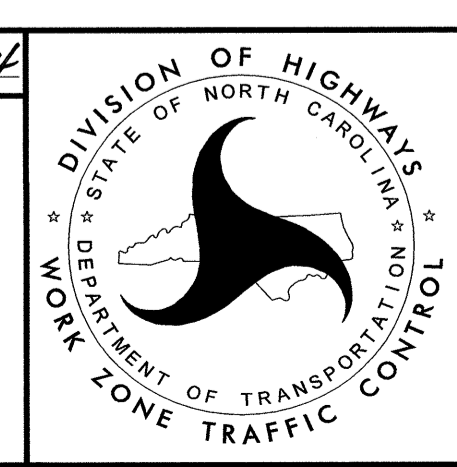
APPROVED: DATE: 4/4/14 		AREA 1 PHASE III DETAIL
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NOTES:

1. REFER TO FINAL PAVEMENT MARKING PLAN FOR ANY TEMPORARY PAVEMENT MARKING NOT IDENTIFIED.
2. ALL LANES ARE 12' WIDE UNLESS OTHERWISE SHOWN.

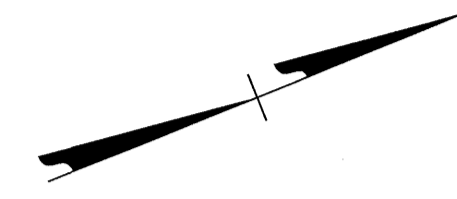
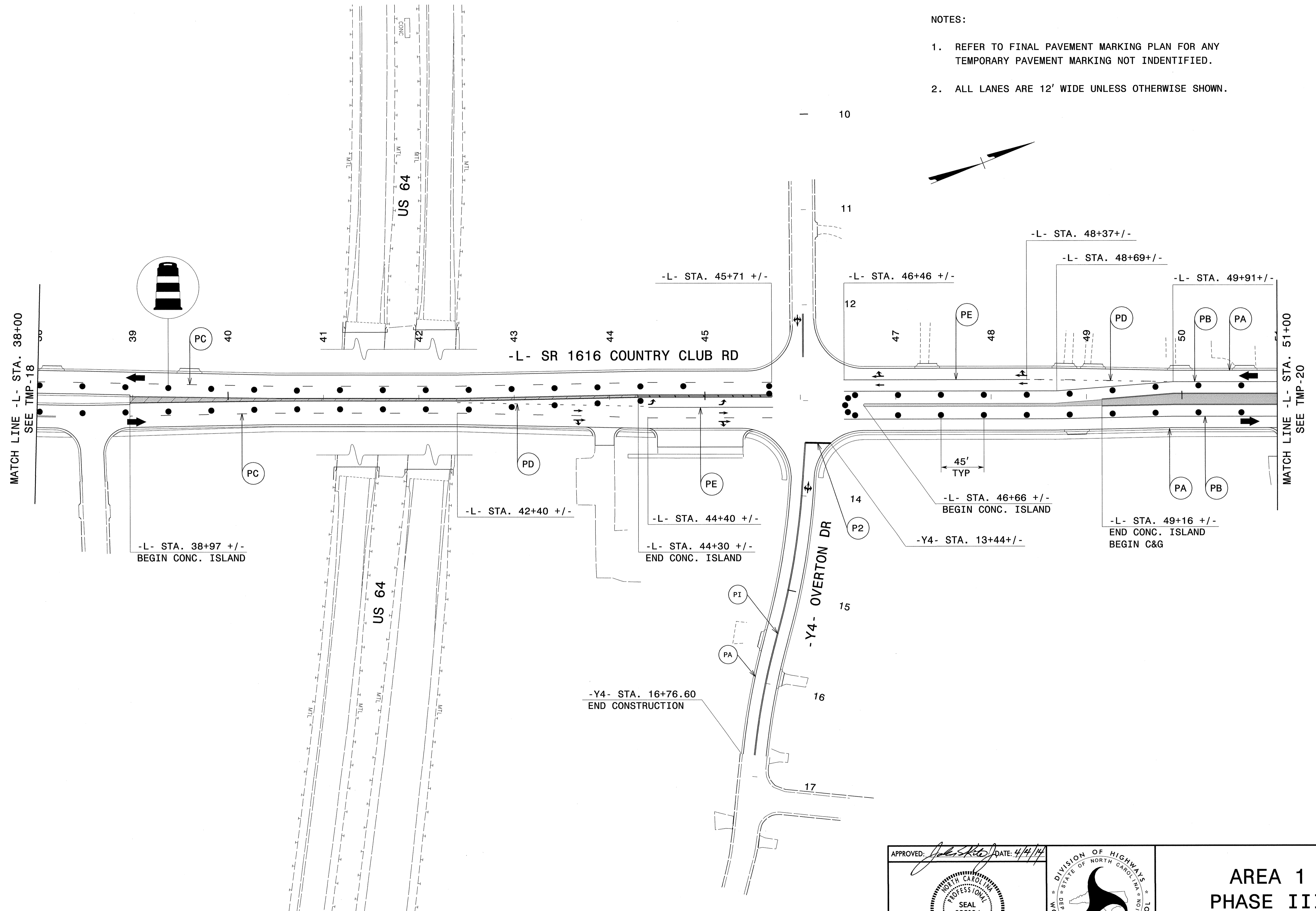
APPROVED: *John S. Kite* DATE: 4/4/14



**AREA 1
PHASE III
DETAIL**

NOTES:

- REFER TO FINAL PAVEMENT MARKING PLAN FOR ANY TEMPORARY PAVEMENT MARKING NOT IDENTIFIED.
- ALL LANES ARE 12' WIDE UNLESS OTHERWISE SHOWN.



4/3/2014
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 User: sbjennings

APPROVED: <i>John S. Kite</i> DATE: 4/4/14 		<p>AREA 1 PHASE III DETAIL</p>
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AREA 1

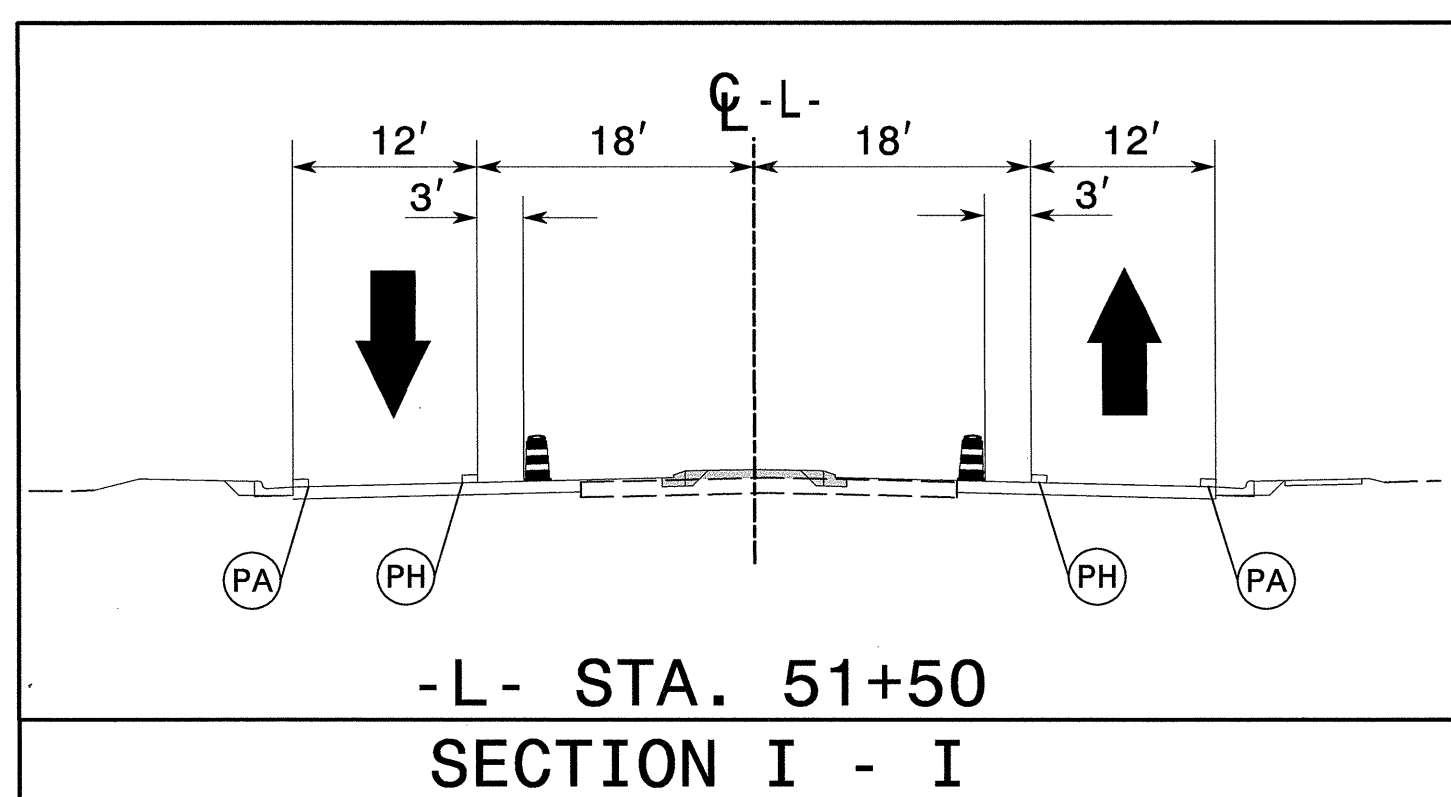
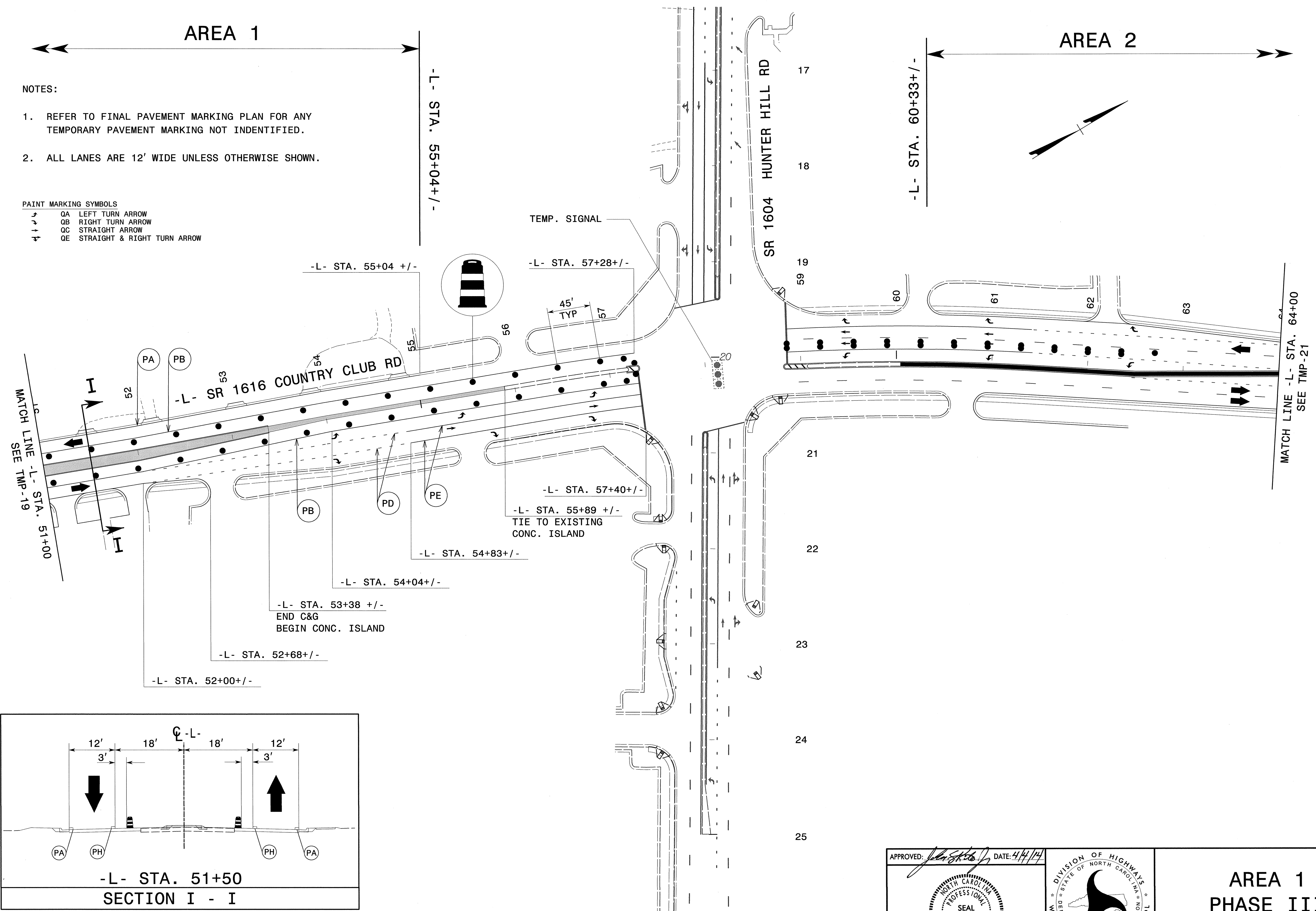
AREA 2

NOTES:

1. REFER TO FINAL PAVEMENT MARKING PLAN FOR ANY TEMPORARY PAVEMENT MARKING NOT IDENTIFIED.
2. ALL LANES ARE 12' WIDE UNLESS OTHERWISE SHOWN.

PAINT MARKING SYMBOLS

- QA LEFT TURN ARROW
- QB RIGHT TURN ARROW
- QC STRAIGHT ARROW
- QE STRAIGHT & RIGHT TURN ARROW



APPROVED: *[Signature]* DATE: 4/4/14

**AREA 1
PHASE III
DETAIL**

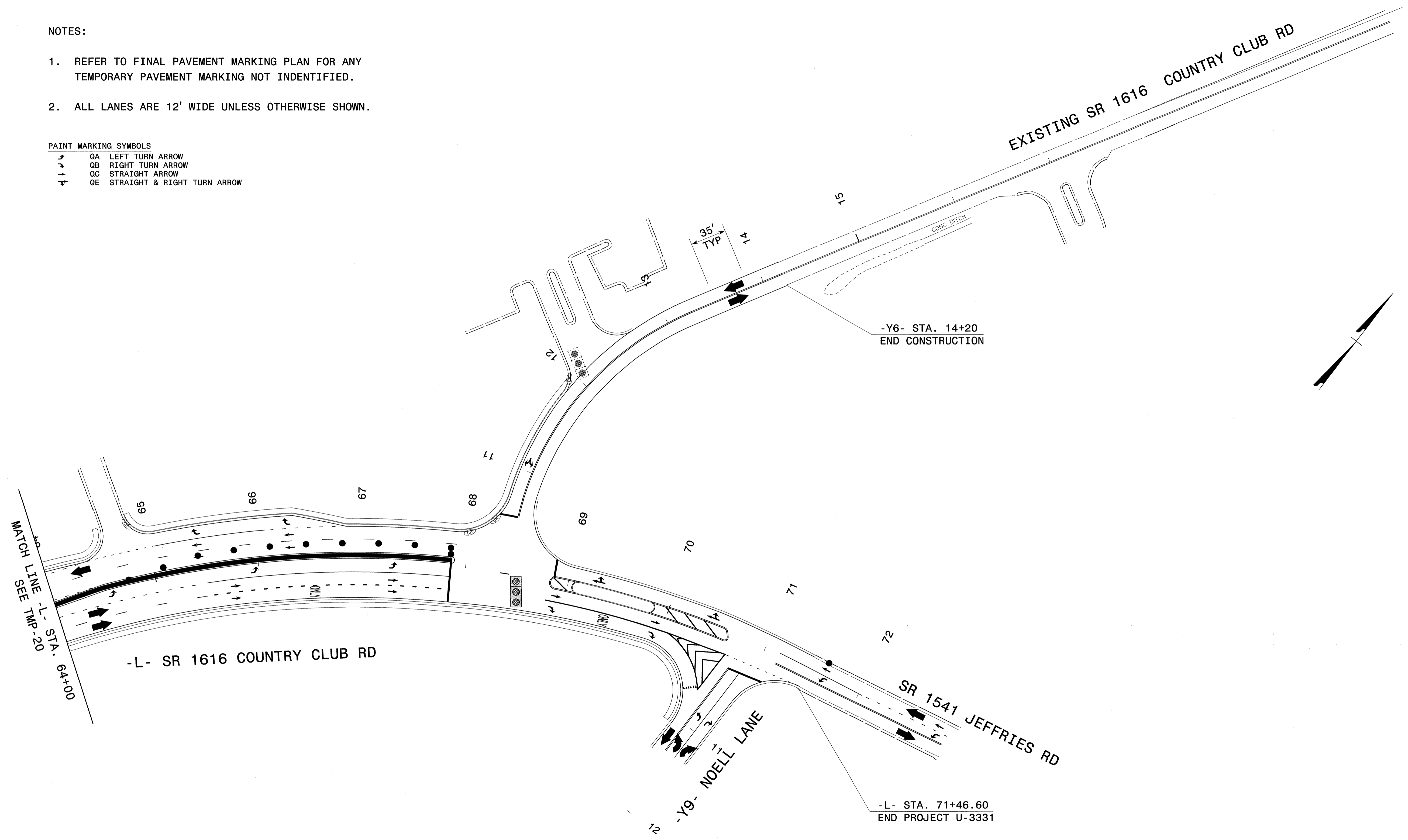
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NOTES:

- REFER TO FINAL PAVEMENT MARKING PLAN FOR ANY TEMPORARY PAVEMENT MARKING NOT IDENTIFIED.
- ALL LANES ARE 12' WIDE UNLESS OTHERWISE SHOWN.

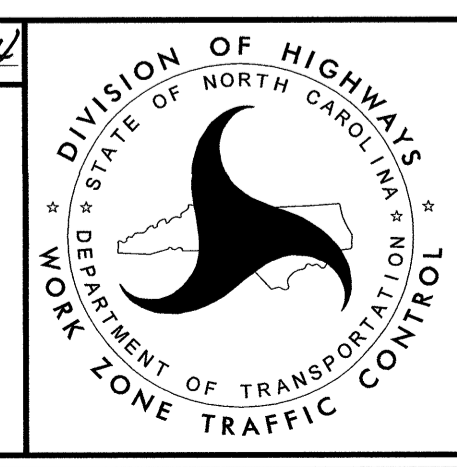
PAINT MARKING SYMBOLS

↙	QA	LEFT TURN ARROW
↘	QB	RIGHT TURN ARROW
→	QC	STRAIGHT ARROW
↘	QE	STRAIGHT & RIGHT TURN ARROW



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AREA 1
PHASE III
DETAIL

AREA II

NOTE: COMPLETE THE WORK OF AREA 2, PHASE I AND II (CONSTRUCT AREA 2 IN IT'S ENTIRETY THROUGH THE FINAL LAYER OF ASPHALT INCLUDING FINAL PAVEMENT MARKINGS) PRIOR TO BEGINNING THE WORK OF AREA 1 PHASE I-B.

PHASE I

STEP 1 -- INSTALL ADVANCE WORK ZONE WARNING SIGNS IN ACCORDANCE WITH RSD 1101.01, SHEETS 2 AND 3 OF 3.

STEP 2 -- USING FLAGGERS (RSD 1101.02, SHEET 1) INSTALL DRAINAGE, GRADE, CURB AND GUTTER AND PAVE TO THE EDGE AND ELEVATION OF EXISTING PAVEMENT AS SHOWN ON SHEETS TMP 23 AND TMP-24.

USING FLAGGERS (RSD 1101.02, SHEET 1) WEDGE EXISTING COUNTRY CLUB RD. FROM -L- STA. 60+50 +/- TO STA. 66+00 +/- TO MATCH OUTSIDE WIDENING. (SEE TMP-23 AND 24)

NOTE: USE NIGHTLY ROAD CLOSURES BETWEEN 9:00 PM AND 6:00 AM TO INSTALL THE FOLLOWING PROPOSED DRAINAGE (SEE GENERAL NOTE (B), INTERMEDIATE CONTRACT TIME, AND TMP-4A FOR DETOUR ROUTES)

- A. CLOSE COUNTRY CLUB RD TO INSTALL DRAINAGE STRUCTURES 715 AND CONNECTING 15 IN. RCP (TMP-23)
- B. CLOSE JEFFRIES RD TO INSTALL 30 IN. RCP CROSSPIPE (TMP-24)

STEP 3 -- INSTALL TEMPORARY PHASE II SIGNAL AT HUNTER HILL RD/COUNTRY CLUB RD. (COVER HEADS) (SEE SIGNAL PLANS)

-- INSTALL FINAL SIGNAL AT COUNTRY CLUB RD/-Y6- (COVER HEADS) (SEE SIGNAL PLANS)

PHASE II

COMPLETE THE WORK OF PHASE II, STEP 1-A THRU 1-D BETWEEN FRIDAY AT 9:00 PM AND THE FOLLOWING MONDAY AT 6:00 AM (SEE INTERMEDIATE CONTRACT TIME AND LIQUIDATED DAMAGES.

STEP 1 -- SHIFT TRAFFIC TO THE PHASE II PATTERN IN THE FOLLOWING SEQUENCE:

A. CLOSE COUNTRY CLUB RD. NORTH OF THE INTERSECTION WITH JEFFRIES RD. AT COBBLESTONE LANE (SEE TMP-4B FOR DETOUR)

CLOSE NOELL DR. AT JEFFRIES RD. (SEE TMP-4B FOR DETOUR)

WORK IN A CONTINUOUS MANNER TO COMPLETE STEP 1-B AND 1-C IN A SINGLE WORK PERIOD.

B. USING FLAGGERS, PLACE TRAFFIC IN A 1 LANE 2 WAY PATTERN IN THE EXISTING SB LANE OF COUNTRY CLUB RD. AND THE EXISTING WB LANE OF JEFFRIES RD.

PAVE AND ADJUST MAKING MARKINGS TO TIE IN THE PROPOSED INSIDE SB LANE OF COUNTRY CLUB RD. AND THE PROPOSED NB LANES OF COUNTRY CLUB RD.

C. CLOSE JEFFRIES RD. AT THE INTERSECTION WITH EXISTING COUNTRY CLUB RD.

PLACE NB COUNTRY CLUB RD. AND WB JEFFRIES RD. IN THE PROPOSED NB LANE OF COUNTRY CLUB RD. UNDER FLAGGER CONTROL.

PAVE AND ADJUST MARKINGS TO TIE IN THE PROPOSED OUTSIDE SB LANE OF COUNTRY CLUB RD.

ACTIVATE TEMPORARY PHASE II SIGNAL AT COUNTRY CLUB RD./HUNTER HILL RD

D. AWAY FROM TRAFFIC, TIE IN -Y6- TO EXISTING COUNTRY CLUB, ACTIVATE FINAL SIGNAL AND OPEN TO THE PHASE II TRAFFIC PATTERN (SEE TMP-25 AND 26)

STEP 2 -- CONSTRUCT THE TIE IN OF NOELL LANE WITH PROPOSED COUNTRY CLUB RD. AND RE-OPEN TO TRAFFIC WITHIN SEVEN DAYS OF THE INITIAL CLOSURE IN STEP 1 (SEE TMP-26).

STEP 3 -- WITH INSIDE LANES DRUMMED OUT AS SHOWN ON TMP-25, ADJUST DRAINAGE STRUCTURE 715 AND CONSTRUCT THE MONOLITHIC CONCRETE ISLAND -L- STA. 60+04 +/- TO STA. 62+00 +/- (SEE TMP-25)

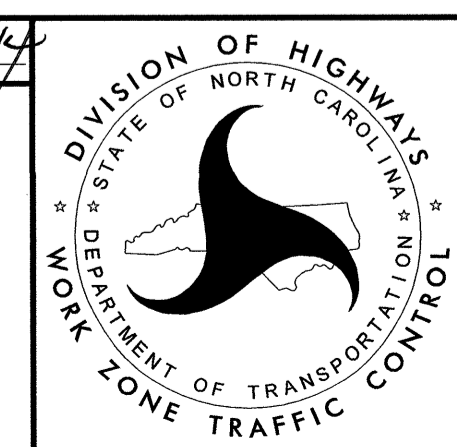
-- COMPLETE CURB AND GUTTER INSTALLATION AS FOLLOWS:
 -L- STA. 63+14 +/- TO STA. 66+35
 -L- STA. 70+12 +/- TO STA. 70+47

-- REMOVE EXISTING PAVEMENT PER ROADWAY PLAN (SEE TMP-26).

STEP 4 -- USING FLAGGERS AND ALTERNATING LANE CLOSURES (RSD 1101.02, SHEET 1 AND 3), PLACE THE FINAL LAYER OF SURFACE COURSE, FINAL MARKINGS AND MARKERS THROUGHOUT AREA 2 AND OPEN AREA 2 TO THE FINAL PATTERN. (SEE FINAL PAVEMENT MARKING PLAN AND TMP-20 AND 21.).

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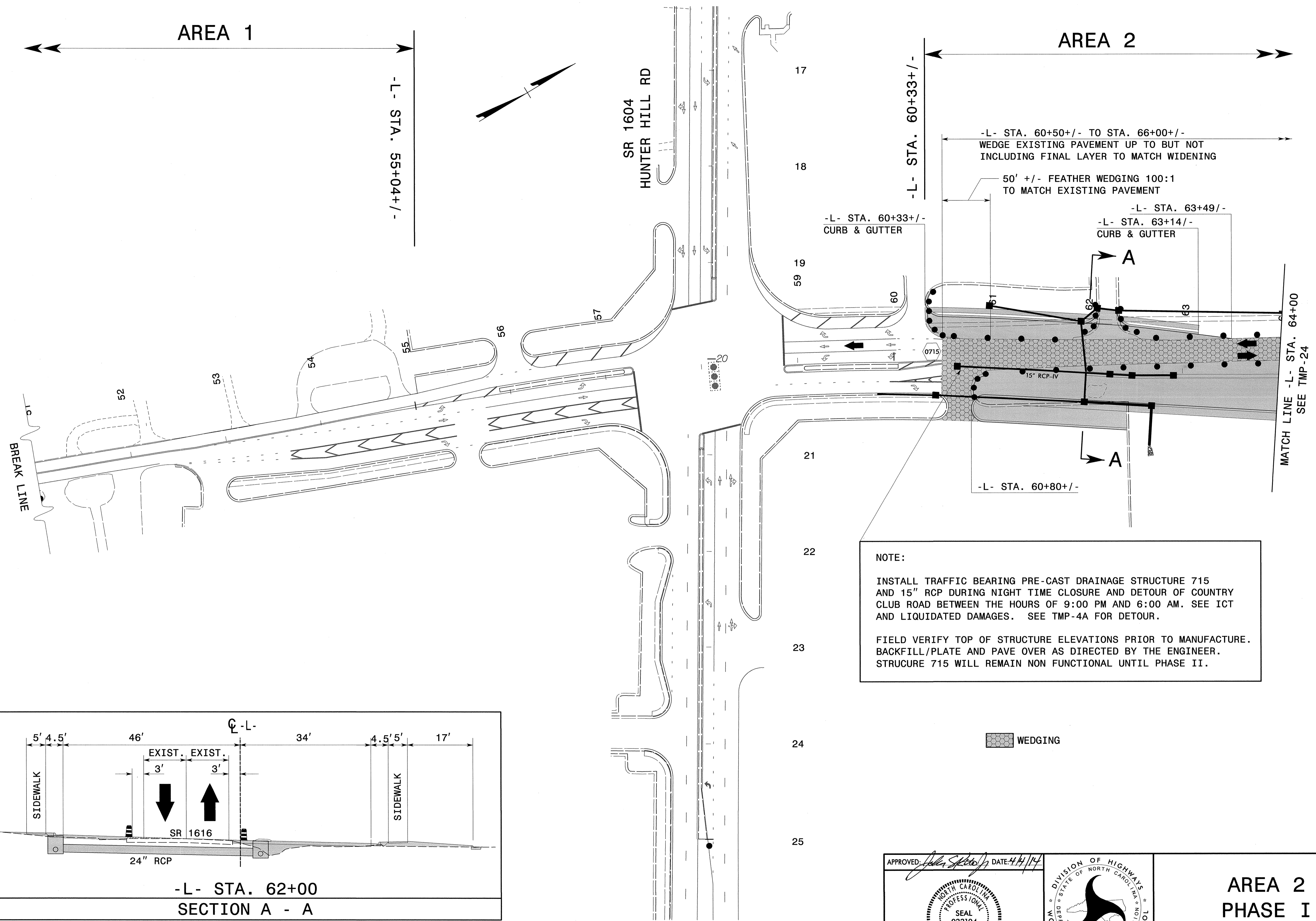
APPROVED: *John S. Kite* DATE: 4/22/14



**AREA 2
 TEMPORARY TRAFFIC
 CONTROL PHASING**

AREA 1

AREA 2

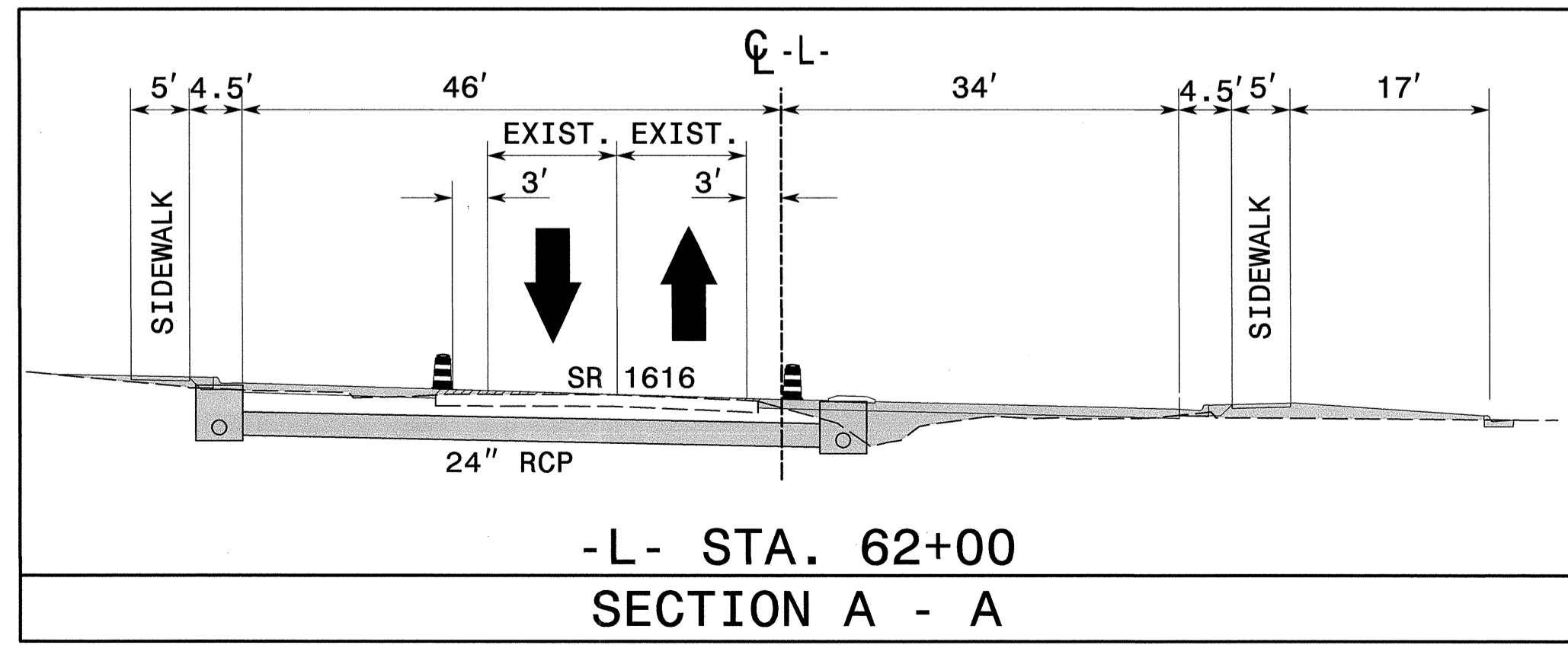


NOTE:

INSTALL TRAFFIC BEARING PRE-CAST DRAINAGE STRUCTURE 715 AND 15" RCP DURING NIGHT TIME CLOSURE AND DETOUR OF COUNTRY CLUB ROAD BETWEEN THE HOURS OF 9:00 PM AND 6:00 AM. SEE ICT AND LIQUIDATED DAMAGES. SEE TMP-4A FOR DETOUR.

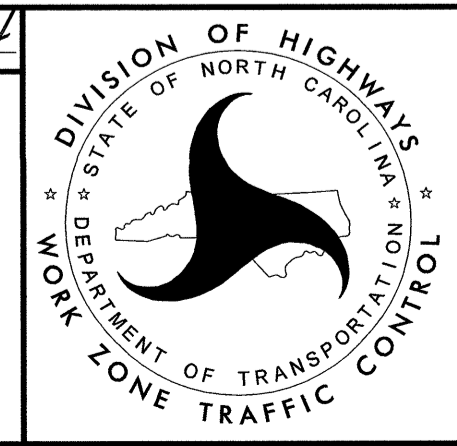
FIELD VERIFY TOP OF STRUCTURE ELEVATIONS PRIOR TO MANUFACTURE. BACKFILL/PLATE AND PAVE OVER AS DIRECTED BY THE ENGINEER. STRUCTURE 715 WILL REMAIN NON FUNCTIONAL UNTIL PHASE II.

WEDGING



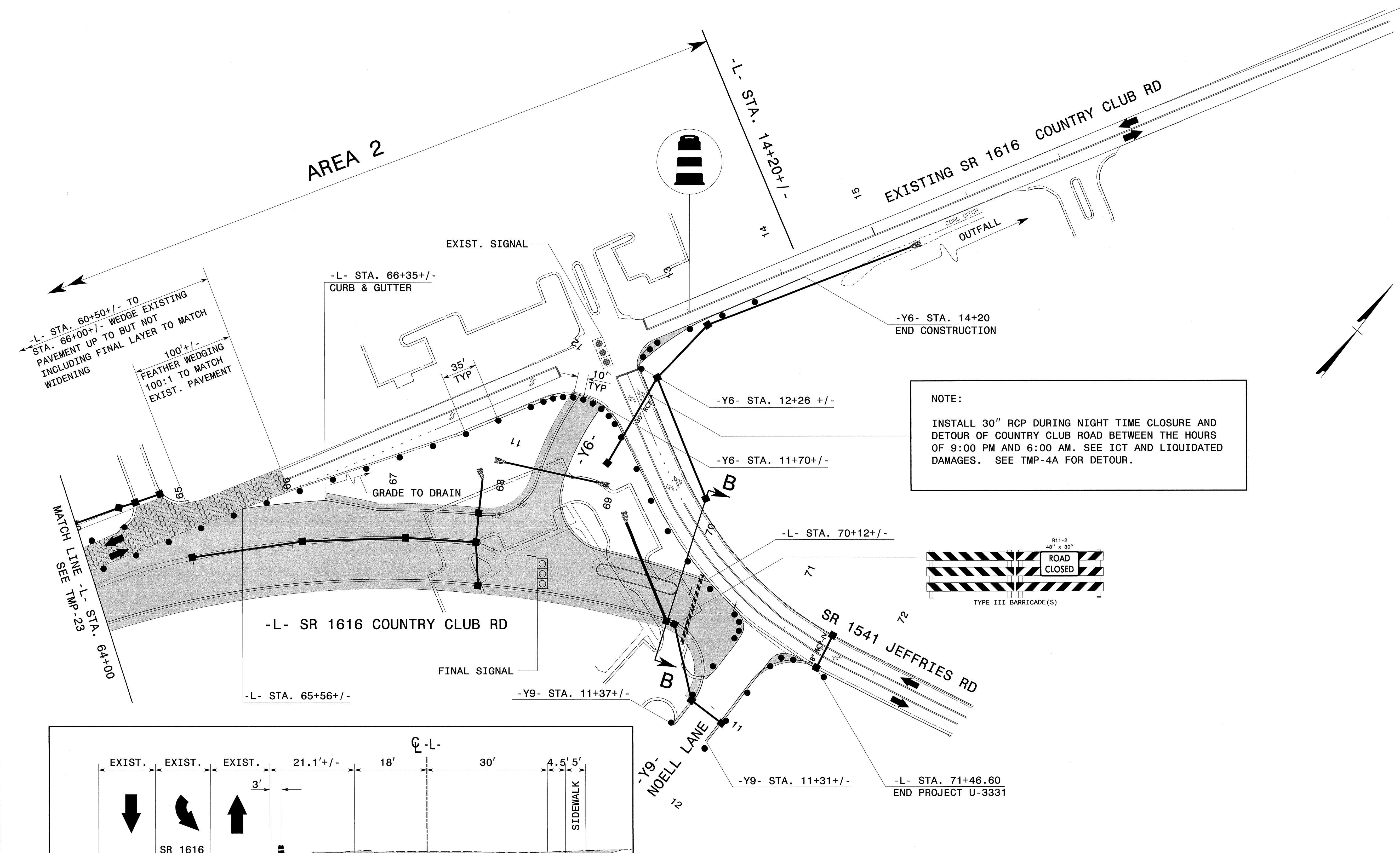
-L- STA. 62+00
SECTION A - A

APPROVED: *John S. Kite* DATE: 4/14/14

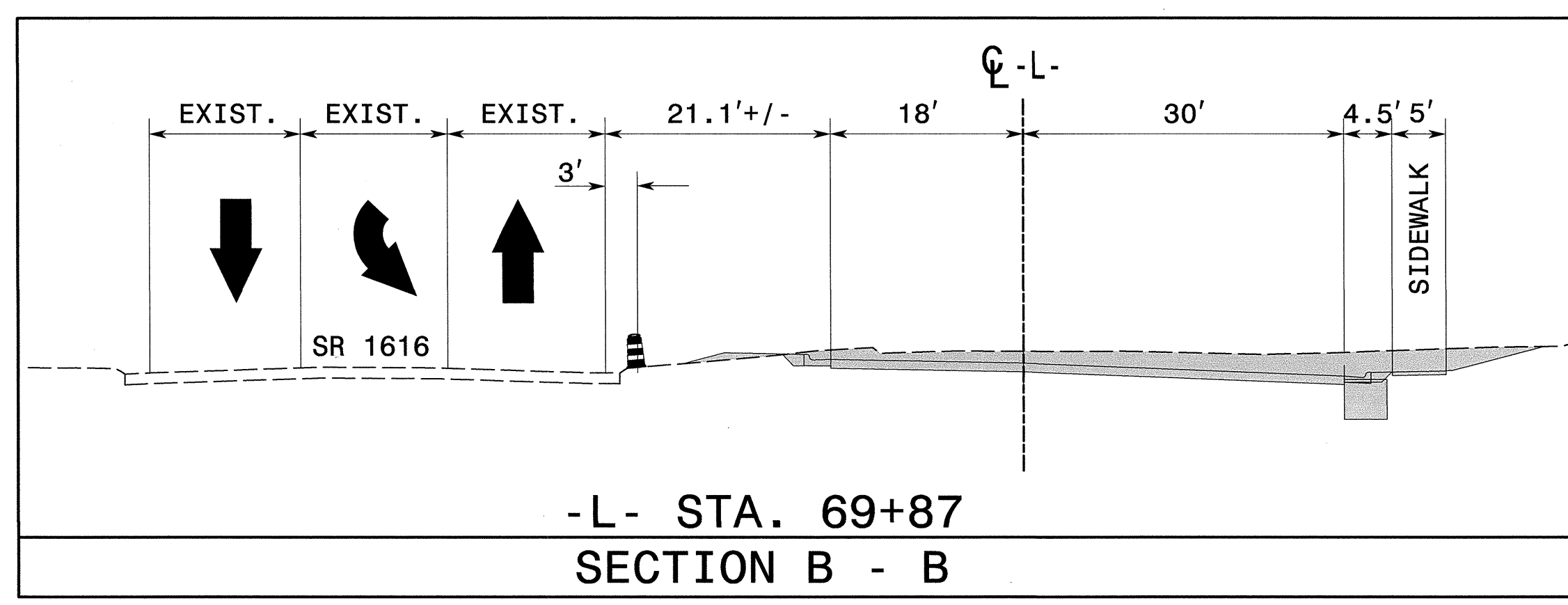
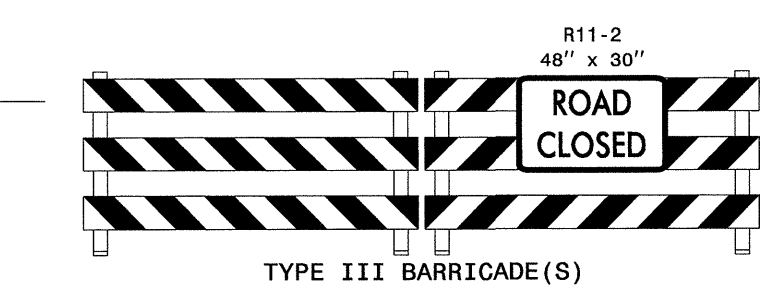


AREA 2
PHASE I
DETAIL

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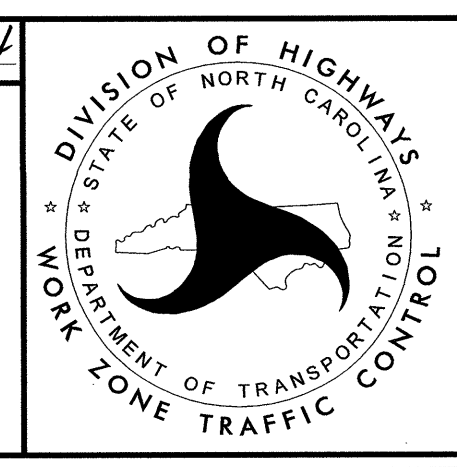


NOTE:
 INSTALL 30" RCP DURING NIGHT TIME CLOSURE AND DETOUR OF COUNTRY CLUB ROAD BETWEEN THE HOURS OF 9:00 PM AND 6:00 AM. SEE ICT AND LIQUIDATED DAMAGES. SEE TMP-4A FOR DETOUR.

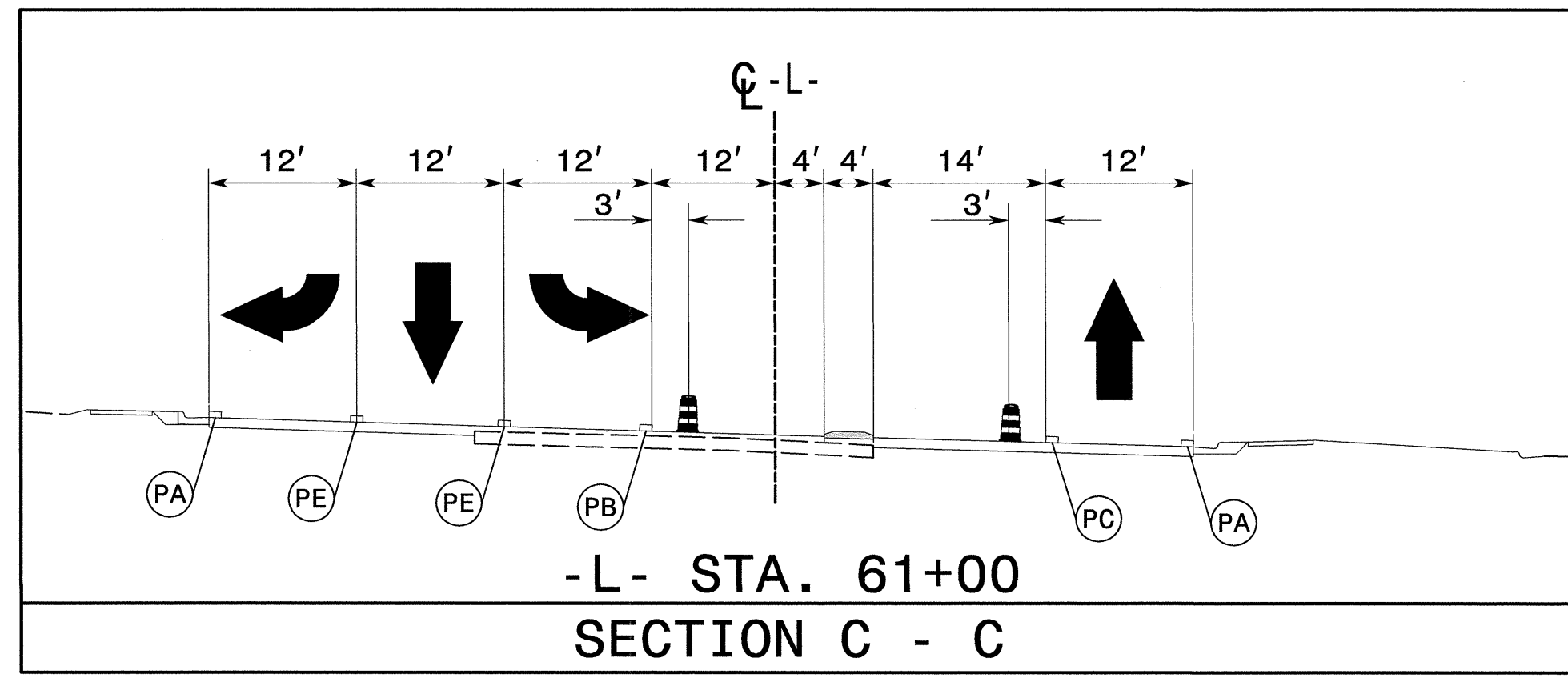
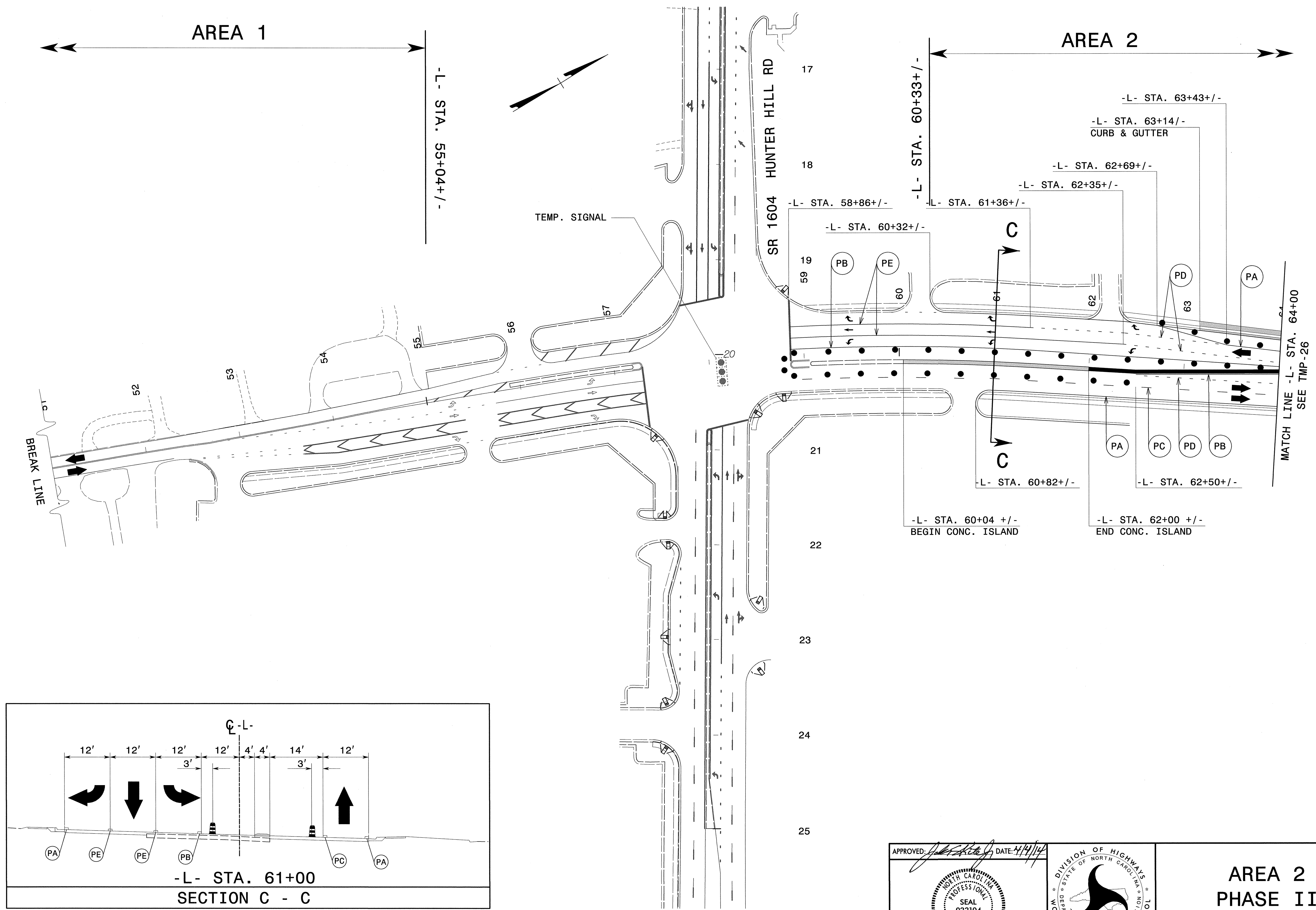


APPROVED: *[Signature]* DATE: 4/4/14

PROFESSIONAL SEAL 022104
 JOHN S. KITE, INC.



**AREA 2
 PHASE I
 DETAIL**



4/3/2014
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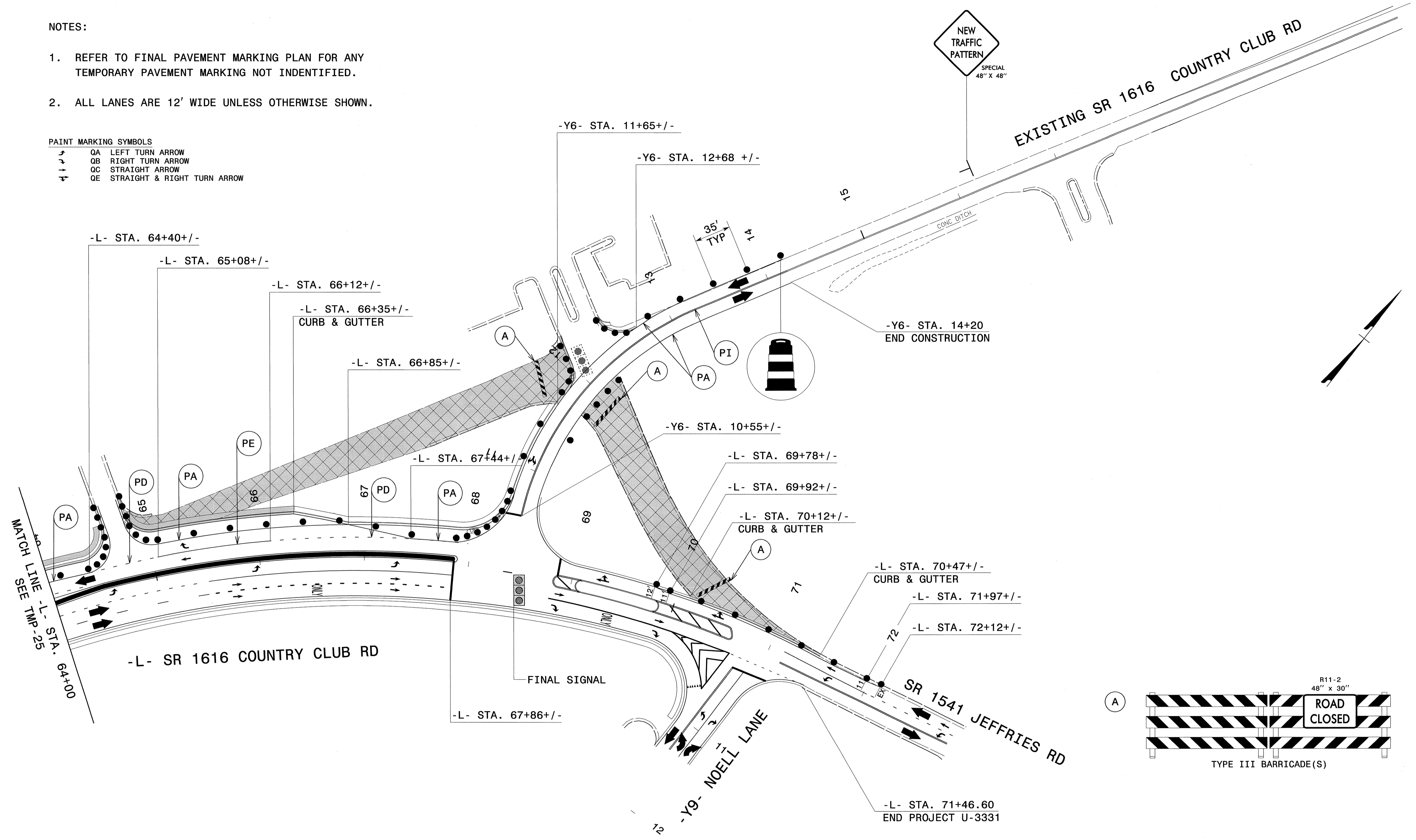
APPROVED: <i>[Signature]</i> DATE: 4/2/14 		<h2>AREA 2 PHASE II DETAIL</h2>
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NOTES:

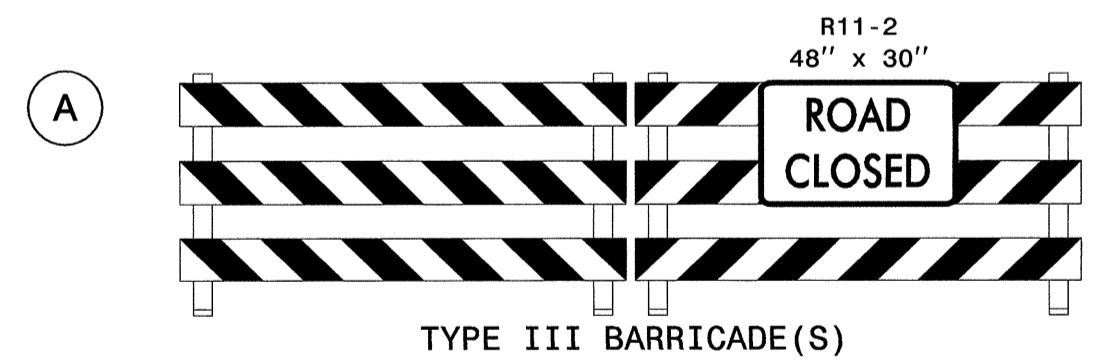
- REFER TO FINAL PAVEMENT MARKING PLAN FOR ANY TEMPORARY PAVEMENT MARKING NOT IDENTIFIED.
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PAINT MARKING SYMBOLS

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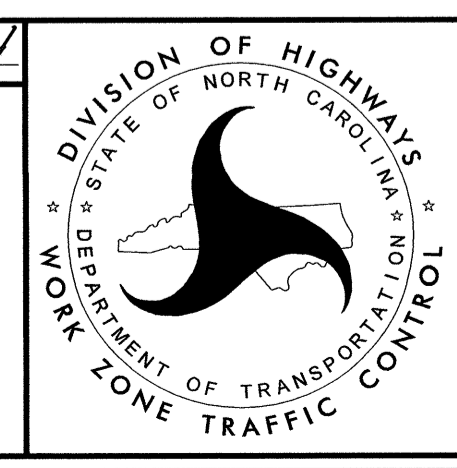
MATCH LINE SEE TMP-25
-L- STA. 64+00



NEW CONSTRUCTION
REMOVAL

APPROVED: *John S. Kitt* DATE: 4/4/14

 JOHN S. KITT, P.E.
 022104
 NORTH CAROLINA
 PROFESSIONAL ENGINEER



AREA 2
PHASE II
DETAIL

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