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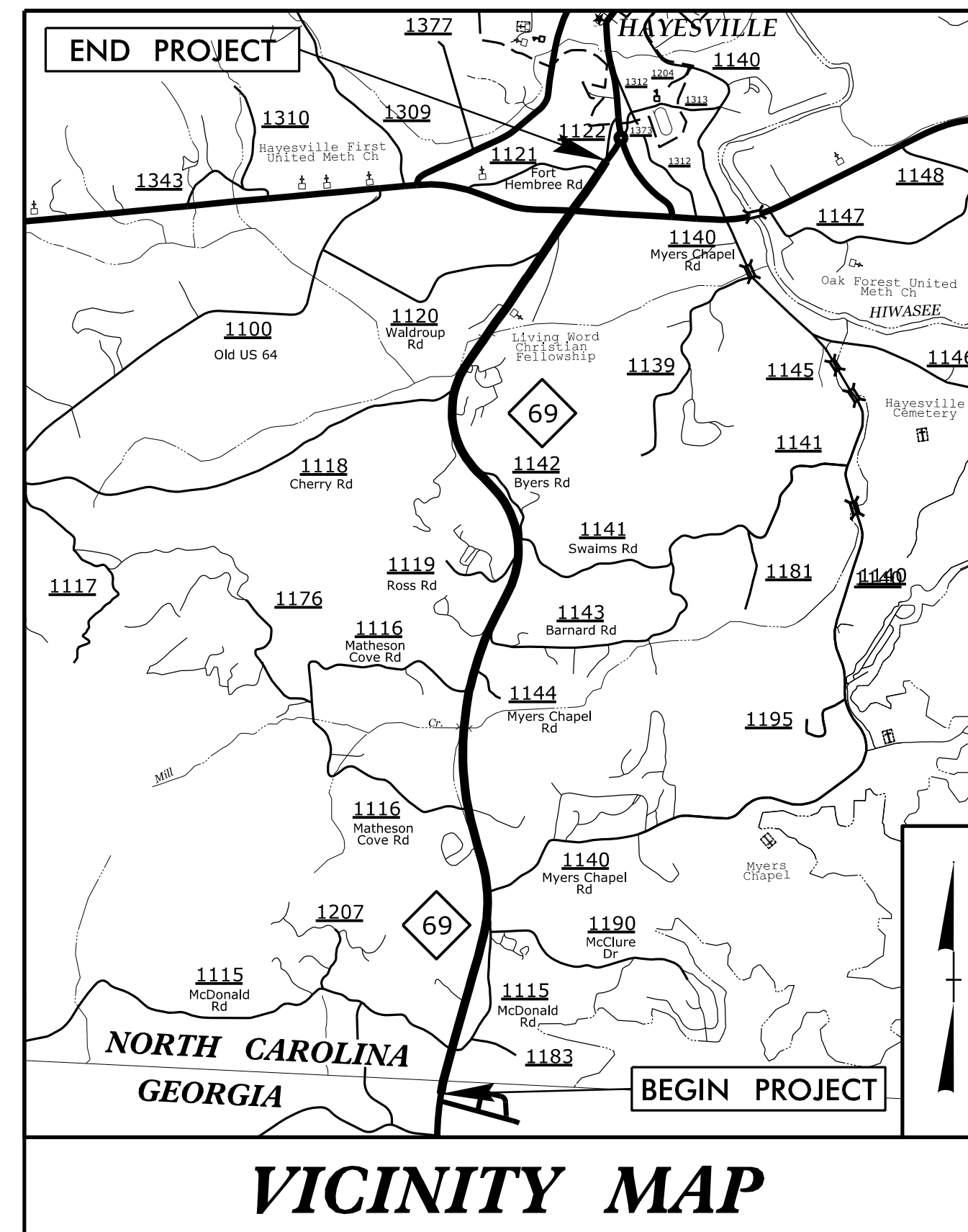
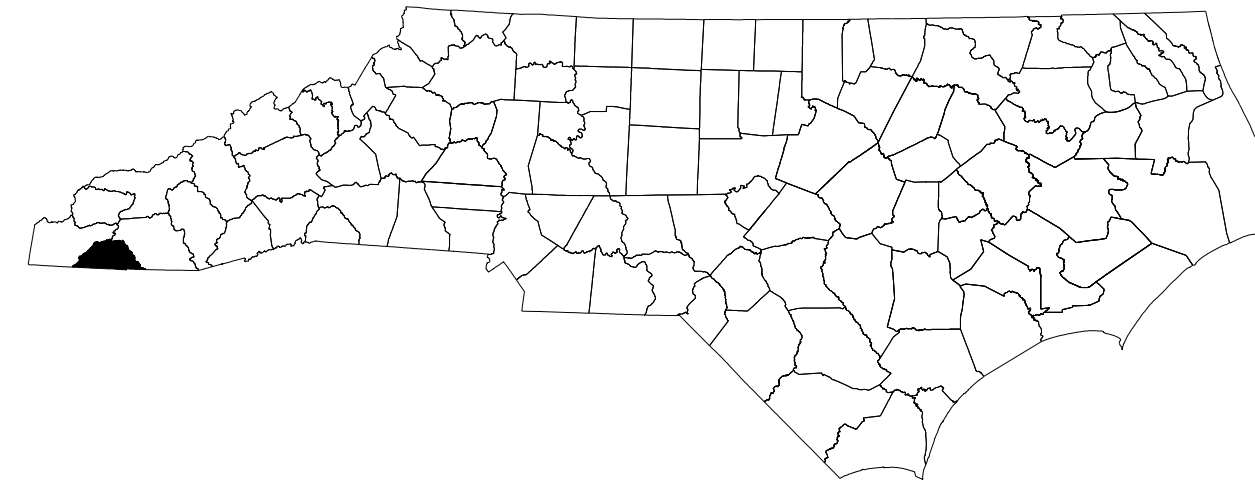
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STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

TRANSPORTATION MANAGEMENT PLAN

CLAY COUNTY
NC 69 FROM
GEORGIA STATE LINE TO US 64



<u>SHEET NO.</u>	<u>TITLE</u>
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TMP-59-71	DETOUR SIGNING

SHEET NO.
TMP-1

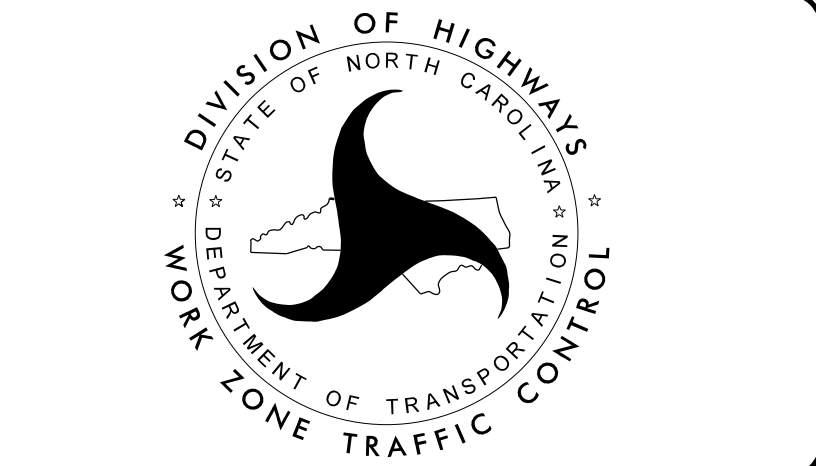
TIP PROJECT: A-0011C

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PLANS PREPARED BY:
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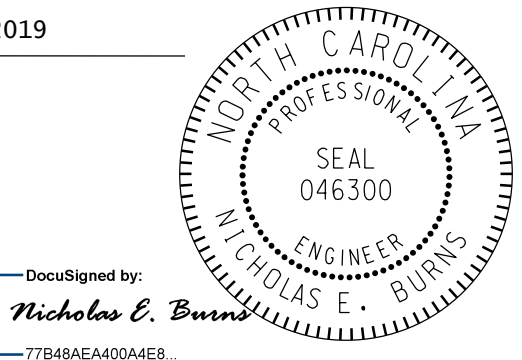
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APPROVED:
DATE: 9/4/2019

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CONTRACT:

GENERAL NOTES

PROJ. REFERENCE NO. A-0011C	SHEET NO. TMP-2
RAMEY KEMP ASSOCIATES, INC. <small>Transportation Engineers 8307 University Executive Park Drive, Suite 260 Charlotte, North Carolina 28252 704-549-4260 Tel. 704-549-4277 Fax. www.rameykemp.com NC License No. C-9910</small>	

CHANGES MAY BE REQUIRED WHEN PHYSICAL DIMENSIONS IN THE DETAIL DRAWINGS, STANDARD DETAILS, AND ROADWAY DETAILS ARE NOT ATTAINABLE TO MEET FIELD CONDITIONS OR RESULT IN DUPLICATE OR UNDESired OVERLAPPING OF DEVICES. MODIFICATION MAY INCLUDE: MOVING, SUPPLEMENTING, COVERING, OR REMOVAL OF DEVICES AS DIRECTED BY THE ENGINEER.

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

TIME RESTRICTIONS

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

ROAD NAME	DAY AND TIME RESTRICTIONS
US 64	MONDAY THRU SUNDAY 7-9 AM
NC 69	MONDAY THRU SUNDAY 3-5 PM

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

ROAD NAME
US 64
NC 69

HOLIDAY

1. FOR ANY UNEXPECTED OCCURRENCE 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 31st TO 6:00 P.M. JANUARY 2ND. IF NEW YEAR'S DAY IS ON A FRIDAY, SATURDAY, SUNDAY, OR MONDAY THEN UNTIL 6:00 P.M. THE FOLLOWING TUESDAY.
3. FOR EASTER, BETWEEN THE HOURS OF 6:00 A.M. THURSDAY AND 6:00 P.M. MONDAY.
4. FOR MEMORIAL DAY, BETWEEN THE HOURS OF 6:00 A.M. FRIDAY TO 6:00 P.M. TUESDAY.
5. FOR INDEPENDENCE DAY, BETWEEN THE HOURS OF 6:00 A.M. THE DAY BEFORE INDEPENDENCE DAY AND 6:00 P.M. THE DAY AFTER INDEPENDENCE DAY.

 IF INDEPENDENCE DAY IS ON A FRIDAY, SATURDAY, SUNDAY OR MONDAY THEN BETWEEN THE HOURS OF 6:00 A.M. THE THURSDAY BEFORE INDEPENDENCE DAY AND 6:00 P.M. THE TUESDAY AFTER INDEPENDENCE DAY.
6. FOR LABOR DAY, BETWEEN THE HOURS OF 6:00 A.M. FRIDAY AND 6:00 P.M. TUESDAY.
7. FOR THANKSGIVING DAY, BETWEEN THE HOURS OF 6:00 A.M. TUESDAY TO 6:00 P.M. MONDAY.
8. FOR CHRISTMAS, BETWEEN THE HOURS OF 6:00 A.M. THE FRIDAY BEFORE THE WEEK OF CHRISTMAS DAY AND 6:00 P.M. THE FOLLOWING TUESDAY AFTER THE WEEK OF CHRISTMAS.

C) 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

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.

LANE AND SHOULDER CLOSURE REQUIREMENTS (CONT...)

F) 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.

G) 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.

H) 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.

I) PROVIDE TRAFFIC CONTROL FOR APPROPRIATE LANE CLOSURES FOR SURVEYING DONE BY THE DEPARTMENT.

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 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.

K) 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) 250 FT IN ADVANCE AND A MINIMUM OF EVERY HALF MILE THROUGHOUT THE UNEVEN AREA.

TRAFFIC PATTERN ALTERATIONS

L) NOTIFY THE ENGINEER THIRTY (30) CALENDAR DAYS PRIOR TO ANY TRAFFIC PATTERN ALTERATION.

SIGNING

M) 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.

N) 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.

O) 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.

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

Q) INSTALL BLACK ON ORANGE "DIP" SIGNS (W8-2) AND/OR "BUMP" SIGNS (W8-1) 250 FT IN ADVANCE OF THE UNEVEN AREA, OR AS DIRECTED BY THE ENGINEER.

TRAFFIC CONTROL DEVICES

R) 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.

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

T) PLACE ADDITIONAL SETS OF THREE CHANNELIZING DEVICES DRUMS PERPENDICULAR TO THE EDGE OF TRAVELWAY ON 500 FT CENTERS WHEN UNOPENED LANES ARE CLOSED TO TRAFFIC.

PAVEMENT MARKINGS AND MARKERS

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

ROAD NAME	MARKING	MARKER
US 64	TEMP. PAINT	TEMP. RAISED MARKERS
NC 69	TEMP. PAINT	TEMP. RAISED MARKERS
SIMILAR FOR ALL OTHER MARKED -Y-, -SR-, AND RAMP LINES		

V) 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.

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

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

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

MISCELLANEOUS

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

AA) IN THE EVENT A TIE-IN CANNOT BE MADE IN ONE DAY'S 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) 250 FT AND 250 FT RESPECTIVELY IN ADVANCE OF THE UNEVEN AREAS. USE DRUMS TO DELINEATE THE EDGE OF ROADWAY ALONG UNPAVED AREAS.

BB) 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.

APPROVED: _____ DATE: 9/4/2019 SEAL DocuSigned by: 77B48AE4A00AEB			<h2 style="margin: 0;">GENERAL NOTES</h2>
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STAGING NOTES

PHASE I

NOTE: WHEN REFERENCEING THE USE OF FLAGGERS, SEE RSD 1101.02, (SHEET 1 OF 14).

STEP 1 -- INSTALL ADVANCE WARNING SIGNS (ROADWAY DRAWING 1101.01).

STEP 2 -- USING FLAGGERS AS NECESSARY, RELOCATE UTILITIES, BEGIN GRADING AND PROPOSED INSTALLATION THROUGHOUT THE LIMITS OF PHASE I (SEE TMP-3 THRU TMP-22)

NOTE: CERTAIN DRAINAGE STRUCTURES SHALL INITIALLY CONSTRUCTED SHORT OF THE FINAL GRADE AND WILL REMAIN NON-FUNCTIONING UNTIL A LATER PHASE. THESE DRAINAGE STRUCTURES ARE NOTED IN THE TMP DETAILS.

USING ROADWAY STANDARD DRAWINGS 1102.02, SHEETS 1 AND 2 OF 14, AS NECESSARY. PRIORITIZE PROPOSED CONSTRUCTION UP TO BUT NOT INCLUDING FINAL LAYER OF SURFACE COURSE, INCLUDING DRAINAGE, OF EXISTING AT THE FOLLOWING LOCATIONS:

- L- STA. 20+50± TO -L- STA. 59+31± (LT) TMP-5 TO TMP-8
- L- STA. 57+39± TO -L- STA. 81+65± (RT) TMP-8 TO TMP-10
- L- STA. 79+22± TO -L- STA. 147+54± (LT) TMP-10 TO TMP-15
- L- STA. 147+04± TO -L- STA. 171+05± (RT) TMP-15 TO TMP-17
- L- STA. 168+67± TO -L- STA. 208+50± (LT) TMP-17 TO TMP-20
- Y1- STA. 12+00± TO -Y1- STA. 14+90± TMP-6
- Y5- STA. 10+14± TO -Y5- STA. 14+75± TMP-8
- Y8- STA. 11+75± TO -Y8- STA. 15+30± TMP-11
- Y11- STA. 13+00± TO -Y11- STA. 20+00± TMP-13 TO TMP-14
- Y14- STA. 10+05± TO -Y14- STA. 12+75± TMP-15
- Y15- STA. 10+00± TO -Y15- STA. 12+00± TMP-15
- Y19- STA. 12+19± TO -Y19- STA. 13+25± TMP-19
- Y20- STA. 14+50± TO -Y20- STA. 21+00± (RT) TMP-20
- Y20- STA. 20+78± TO -Y20- STA. 29+25± (LT) TMP-20 AND TMP-22

NOTE: IF ROCK BLASTING IS UTILIZED FOR ROCK EXCAVATION ON -L- FROM STA. 140+00± TO STA. 168+00±, USE ROADWAY DRAWING 1106.06 (SHEET 1 OF 1).

STEP 3 -- INSTALL TEMPORARY SIGNAL NO.1 AT US 64 AND NC 69.

NOTE: COMPLETE WORK IN STEP 3, IN A 14-DAY CONSECUTIVE WORK PERIOD. SEE INTERMEDIATE CONTRACT TIME AND LIQUIDATED DAMAGES.

INSTALL DETOUR SIGNING (SEE TMP-71) FOR -L- STA. 209+50± TO -L- STA. 215+00±, USING ROADWAY STANDARD DRAWING 1101.02, SHEETS 1 AND 2 OF 14, AS NECESSARY, BEGIN CONSTRUCTION UP TO BUT NOT INCLUDING FINAL LAYER OF SURFACE COURSE, INCLUDING DRAINAGE, FOR THE CLOSURE OF -L- FROM STA. 209+50± TO STA. 215+00±.

- ONCE DETOUR IS IN PLACE, CLOSE -L- FROM STA. 209+50± TO -L- STA. 215+00± (SEE TMP-20 AND TMP-21) AND ACTIVATE TEMPORARY TRAFFIC SIGNAL NO-1.
- UPON COMPLETION OF CONSTRUCTION FROM STA. 209+50± TO -L- STA. 215+00±, INSTALL TEMPORARY SIGNAL NO-2. (SEE SIGNAL PLANS)
- ONCE TEMPORARY SIGNAL NO-2 IS INSTALLED, REMOVE DETOUR AND ACTIVATE TEMPORARY SIGNAL NO-2.

STEP 4 -- USING FLAGGERS, CONSTRUCT TEMPORARY PAVEMENT TO THE EDGE AND ELEVATION OF EXISTING PAVEMENT IN THE LOCATIONS SHOWN ON TMP-12,15,16, AND 17.

STEP 5 -- USING FLAGGERS, CONSTRUCT THE FOLLOWING BUT NOT INCLUDING FINAL LAYER OF SURFACE COURSE FOR:

- Y4- STA. 11+25± TO -Y4- STA. 14+00± TMP-8
- Y19- STA. 15+00± TO -Y19- STA. 19+00± TMP-19

NOTE: COMPLETE CONSTRUCTION OF STEP 5 PRIOR TO BEGINNING WORK ON -Y18- IN STEP 6.

NOTE: COMPLETE THE CONSTRUCTION OF EACH -Y- LINE IN STEP 6 WITHIN 14-DAY PERIOD. SEE INTERMEDIATE CONTRACT TIME AND LIQUIDATED DAMAGES.

STEP 6 --

INSTALL DETOUR SIGNING (SEE TMP-59 TO TMP-71). USING ROADWAY STANDARD DRAWING 1101.02, SHEETS 1 AND 2 OF 14, AS NECESSARY. BEGIN CONSTRUCTION UP TO BUT NOT INCLUDING FINAL LAYER OF SURFACE COURSE, INCLUDING DRAINAGE, AT THE FOLLOWING LOCATIONS:

NOTE: THIS WORK CAN BE PERFORMED CONCURRENTLY WITH STEP 2.
 -Y15DET- MUST BE CONSTRUCTED AND TRAFFIC SHIFTED ONTO DETOUR BEFORE STARTING CONSTRUCTION ON -Y15-.
 -Y18- MUST HAVE ACCESS TO ROADWAY DURING DURATION OF CONSTRUCTION.

- Y1- STA. 10+00± TO -Y1- STA. 14+00± TMP-6 AND TMP-59
- Y5- STA. 10+00± TO -Y5- STA. 15+25± TMP-8 AND TMP-62
- Y8- STA. 11+75± TO -Y8- STA. 15+35± TMP-11 AND TMP-64
- Y14- STA. 10+00± TO -Y14- STA. 13+50± TMP-15 AND TMP-68
- Y15DET- STA. 10+30± TO -Y5- STA. 12+50± TMP-15
- Y15- STA. 10+00± TO -Y15- STA. 13+00± TMP-15
- Y18- STA. 10+00± TO -Y18- STA. 15+25± TMP-19
- Y19- STA. 13+25± TO -Y19- STA. 19+40± TMP-19 AND TMP-70
- L- STA. 209+50± TO -L- STA. 221+00± TMP-20 TO TMP-21 AND TMP-71

NOTE: TRAFFIC SHALL BE MAINTAINED ON EXISTING (-EY-) LINES UNTIL DETOUR IS INSTALLED AND ROAD IS CLOSED. ONCE CLOSED, EACH -Y- LINE WILL NEED TO BE REOPENED WITHIN 14 DAYS.

NOTE: IF ROCK BLASTING IS UTILIZED FOR ROCK EXCAVATION ON -Y15DET-, USE ROADWAY DRAWING 1106.06 (SHEET 1 OF 1).

PHASE II

NOTE: WHEN REFERENCEING THE USE OF FLAGGERS, SEE RSD 1101.02, (SHEET 1 OF 14).

STEP 1 -- INSTALL TEMPORARY SIGNAL NO-3 AT US 64 AND NC 69.

STEP 2 -- USING FLAGGER AND ASSISTANCE FROM LAW ENFORCEMENT, SHIFT TRAFFIC TO THE THE PHASE II PATTERN AS DETAILED ON SHEETS TMP-23 THRU TMP-40.

STEP 3 -- USING ROADWAY STANDARD DRAWINGS 1102.02, SHEETS 1 AND 2 OF 14, AS NECESSARY. PRIORITIZE PROPOSED CONSTRUCTION UP TO BUT NOT INCLUDING FINAL LAYER OF SURFACE COURSE, INCLUDING DRAINAGE, OF EXISTING AT THE FOLLOWING LOCATIONS:

- L- STA. 20+50± TO -L- STA. 57+75± (RT) TMP-23 TO TMP-26
- L- STA. 59+25± TO -L- STA. 79+75± (LT) TMP-26 TO TMP-28
- L- STA. 81+50± TO -L- STA. 147+00± (RT) TMP-28 TO TMP-33
- L- STA. 147+00± TO -L- STA. 172+25± (LT) TMP-33 TO TMP-35
- L- STA. 170+50± TO -L- STA. 209+00± (RT) TMP-35 TO TMP-38
- Y6- STA. 10+50± TO -Y6- STA. 13+00± TMP-27
- Y20- STA. 21+50± TO -Y20- STA. RT 29+25± TMP-38 TO TMP-40

STEP 4 -- USING FLAGGERS, CONSTRUCT THE FOLLOWING BUT NOT INCLUDING FINAL LAYER OF SURFACE COURSE FOR:

- Y9- STA. 10+00± TO -Y9- STA. 13+35± TMP-30
- Y16- STA. 11+00± TO -Y16- STA. 14+00± TMP-34


NOTE: THIS WORK CAN BE PERFORMED CONCURRENTLY WITH STEP 2.

NOTE: COMPLETE THE CONSTRUCTION OF EACH -Y- LINE IN STEP 5 WITHIN A 14-DAY PERIOD. SEE INTERMEDIATE CONTRACT TIME AND LIQUIDATED DAMAGES.

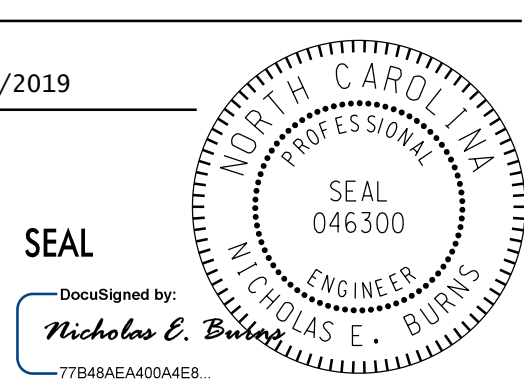

STEP 5 -- INSTALL DETOUR SIGNING (SEE TMP-59 TO TMP-71). USING ROADWAY STANDARD DRAWING 1101.02, SHEETS 1 AND 2 OF 14, AS NECESSARY. BEGIN CONSTRUCTION UP TO BUT NOT INCLUDING FINAL LAYER OF SURFACE COURSE, INCLUDING DRAINAGE, AT THE FOLLOWING LOCATIONS:

- Y1- STA. 16+00± TO -Y1- STA. 18+50± TMP-24 AND TMP-60
- Y2- STA. 12+00± TO -Y2- STA. 14+00± TMP-26 AND TMP-61
- Y3- STA. 10+00± TO -Y3- STA. 13+00± TMP-26
- Y7- STA. 11+75± TO -Y7- STA. 15+35± TMP-28 AND TMP-63
- Y10- STA. 10+00± TO -Y10- STA. 15+65± TMP-30 AND TMP-65
- Y12- STA. 10+00± TO -Y12- STA. 13+50± TMP-32 AND TMP-66
- Y13- STA. 10+00± TO -Y13- STA. 13+50± TMP-32 AND TMP-67
- Y17- STA. 10+00± TO -Y17- STA. 16+25± TMP-34 AND TMP-69


PROJ. REFERENCE NO.	SHEET NO.
A-0011C	TMP-3A



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PROJ. REFERENCE NO.	SHEET NO.
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STAGING NOTES

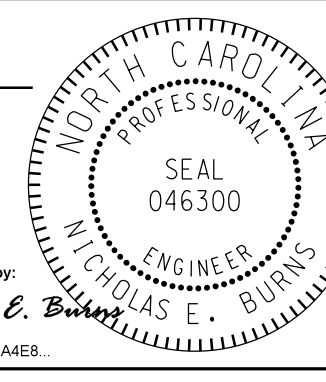
PHASE III

NOTE: WHEN REFERENCEING THE USE OF FLAGGERS, SEE RSD 1101.02, (SHEET 1 OF 14).

- STEP 1 -- USING FLAGGERS AND ASSISTANCE FROM LAW ENFORCEMENT, SHIFT TRAFFIC TO THE PHASE III PATTERN AS DETAILED ON SHEETS TMP-41 THRU TMP-58.
- STEP 2 -- CONSTRUCT MEDIANS AND MONOLITHIC ISLANDS. (SEE TMP-41 TO TMP-57)
 NOTE: PRIORITIZE U-TURN LOCATIONS AT
- | | |
|------------------|--------|
| -L- STA. 70+00± | TMP-45 |
| -L- STA. 87+00± | TMP-46 |
| -L- STA. 122+00± | TMP-49 |
| -L- STA. 181+50± | TMP-54 |
- STEP 3 -- USING ALTERNATIVE LANE CLOSURES AND FLAGGERS, PLACE THE FINAL LAYER OF SURFACE COURSE AND FINAL PAVEMENT MARKINGS AND MARKERS.
- STEP 4 -- REMOVE ALL TRAFFIC CONTROL DEVICES.

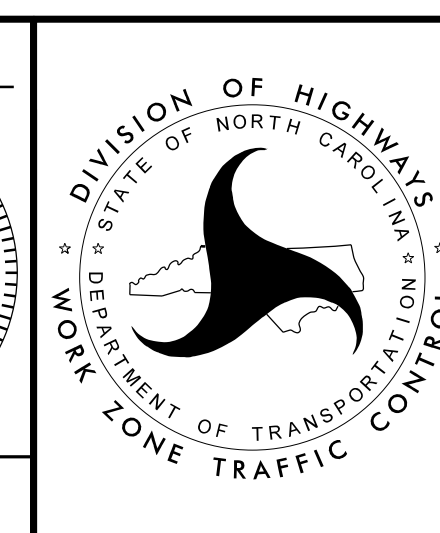
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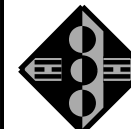


DocuSigned by:
 Nicholas E. Burns
 77848AEAD00A6E8

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STAGING CONCEPT

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TEMPORARY SHORING

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.

DESIGN TEMPORARY SHORING FROM STATION 179+00± 23.5± FT LT OF -L- TO STATION 179+85± 24.0± FT LT OF -L-. FOR THE FOLLOWINGS ASSUMED SOIL PARAMETERS AND GROUNDWATER ELEVATIONS:

- ABOVE ELEVATION 860 FT
 - UNIT WEIGHT = 110 LB/CF
 - FRICTION ANGLE (F) = 28 DEGREES
 - COHESION (C) = 0 LB/CF
- BELOW ELEVATION 860 FT
 - UNIT WEIGHT = 120 LB/CF
 - FRICTION ANGLE (F) = 30 DEGREES
 - COHESION (C) = 0 LB/CF
 - GROUNDWATER ELEVATION = 875 FT

LIMITED SUBSURFACE INFORMATION IS AVAILABLE IN THE VICINITY OF TEMPORARY SHORING FROM STATION 179+00± 23.5± FT LT OF -L- TO STATION 179+85± 24.0± FT LT OF -L-. THE INFORMATION PROVIDED FOR TEMPORARY SHORING DESIGN WAS ASSUMED AND MAY NOT BE APPLICABLE TO THE ACTUAL SITE CONDITIONS ENCOUNTERED DURING CONSTRUCTION.

DRIVEN PILING FOR TEMPORARY SHORING FROM STATION 179+00± 23.5± FT LT OF -L- TO STATION 179+85± 24.0± FT LT OF -L- MAY NOT PENETRATE OBSTRUCTIONS, VERY DENSE OR HARD SOIL, BOULDERS OR WEATHERED OR HARD ROCK WHICH MAY BE PRESENT BENEATH THE DEPTHS OF THE AVAILABLE SUBSURFACE INFORMATION.

IT MAY BE PREFERRED TO USE A TEMPORARY SOIL NAIL WALL FOR TEMPORARY SHORING FROM STATION 179+00± 23.5± FT LT OF -L- TO STATION 179+85± 24.0± FT LT OF -L-. FOR TEMPORARY SOIL NAIL WALLS, SEE TEMPORARY SOIL NAIL WALLS PROVISION.

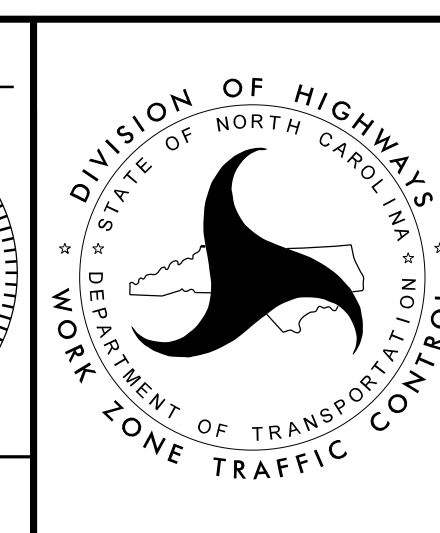
IF A TEMPORARY SOIL NAIL WALL IS USED, COORDINATE SOIL NAIL WALLS TO AVOID CONFLICTS WITH EXISTING UTILITIES.

APPROVED: _____
 DATE: 9/4/2019

SEAL

DocuSigned by:
 Nicholas E. Burns
77848AE40046E8

**DOCUMENT NOT CONSIDERED FINAL
 UNLESS ALL SIGNATURES COMPLETED**



**TEMPORARY
 SHORING NOTES**




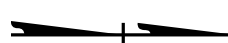


ROADWAY STANDARD DRAWINGS


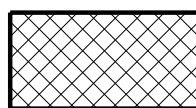
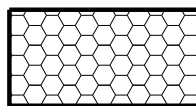

THE FOLLOWING ROADWAY STANDARDS AS SHOWN IN "ROADWAY STANDARD DRAWINGS" - N.C. DEPARTMENT OF TRANSPORTATION - RALEIGH, N.C., DATED JANUARY 2018 ARE APPLICABLE TO THIS PROJECT AND BY REFERENCE HEREBY ARE CONSIDERED A PART OF THESE PLANS:

<u>STD. NO.</u>	<u>TITLE</u>
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
1101.06	WARNING SIGNS FOR BLASTING ZONES
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
1150.01	FLAGGING DEVICES
1165.01	WORK VEHICLE LIGHTING SYSTEMS AND TMA DELINEATION
1170.01	POSITIVE PROTECTION
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
1205.06	PAVEMENT MARKINGS - LANE DROPS
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
1205.13	PAVEMENT MARKINGS - LANE REDUCTIONS
1250.01	RAISED PAVEMENT MARKERS - INSTALLATION SPACING
1251.01	RAISED PAVEMENT MARKERS - PERMANENT AND TEMPORARY
1261.01	GUARDRAIL AND BARRIER DELINEATORS - INSTALLATION SPACING
1261.02	GUARDRAIL AND BARRIER DELINEATORS - TYPES AND MOUNTING
1262.01	GUARDRAIL END DELINEATION
1264.01	OBJECT MARKERS - TYPES
1264.02	OBJECT MARKERS - INSTALLATION


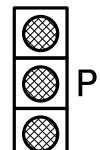

LEGEND

GENERAL

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

-  WORK AREA
-  REMOVAL
-  TEMPORARY PAVEMENT
-  USER DEFINED (IF NEEDED)







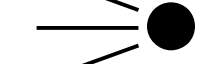


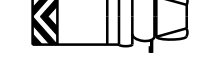

SIGNALS

-  EXISTING
-  PROPOSED
-  TEMPORARY


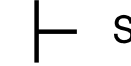

PAVEMENT MARKINGS

-  EXISTING LINES
-  TEMPORARY LINES

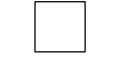
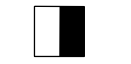

TRAFFIC CONTROL DEVICES

-  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

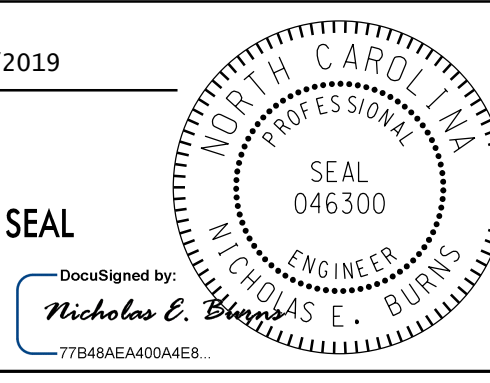
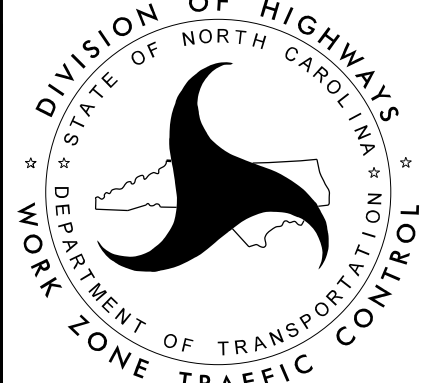
-  CRYSTAL/CRYSTAL
-  CRYSTAL/RED
-  YELLOW/YELLOW

PAVEMENT MARKING SYMBOLS

-  PAVEMENT MARKING SYMBOLS

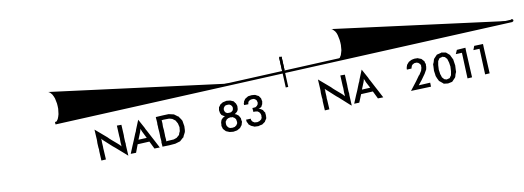
TEMPORARY PAVEMENT MARKING

P2	WHITE STOPBAR	PAINT (24")	LF
P8	2FT. -6FT. /SP WHITE MINISKIP	PAINT (4")	LF
P9	2FT. -6FT. /SP YELLOW MINISKIP	PAINT (4")	LF
PA	WHITE EDGE LINE	PAINT (4")	LF
PB	YELLOW EDGELINE	PAINT (4")	LF
PC	10FT. WHITE SKIP	PAINT (4")	LF
PD	3FT. -9FT. /SP WHITE MINISKIP	PAINT (4")	LF
PE	WHITE SOLID LANE LINE	PAINT (4")	LF
PF	10 FT. YELLOW SKIP	PAINT (4")	LF
PH	YELLOW SINGLE CENTER	PAINT (4")	LF
PI	YELLOW DOUBLE CENTER	PAINT (4")	LF
PN	WHITE GORELINE	PAINT (8")	LF

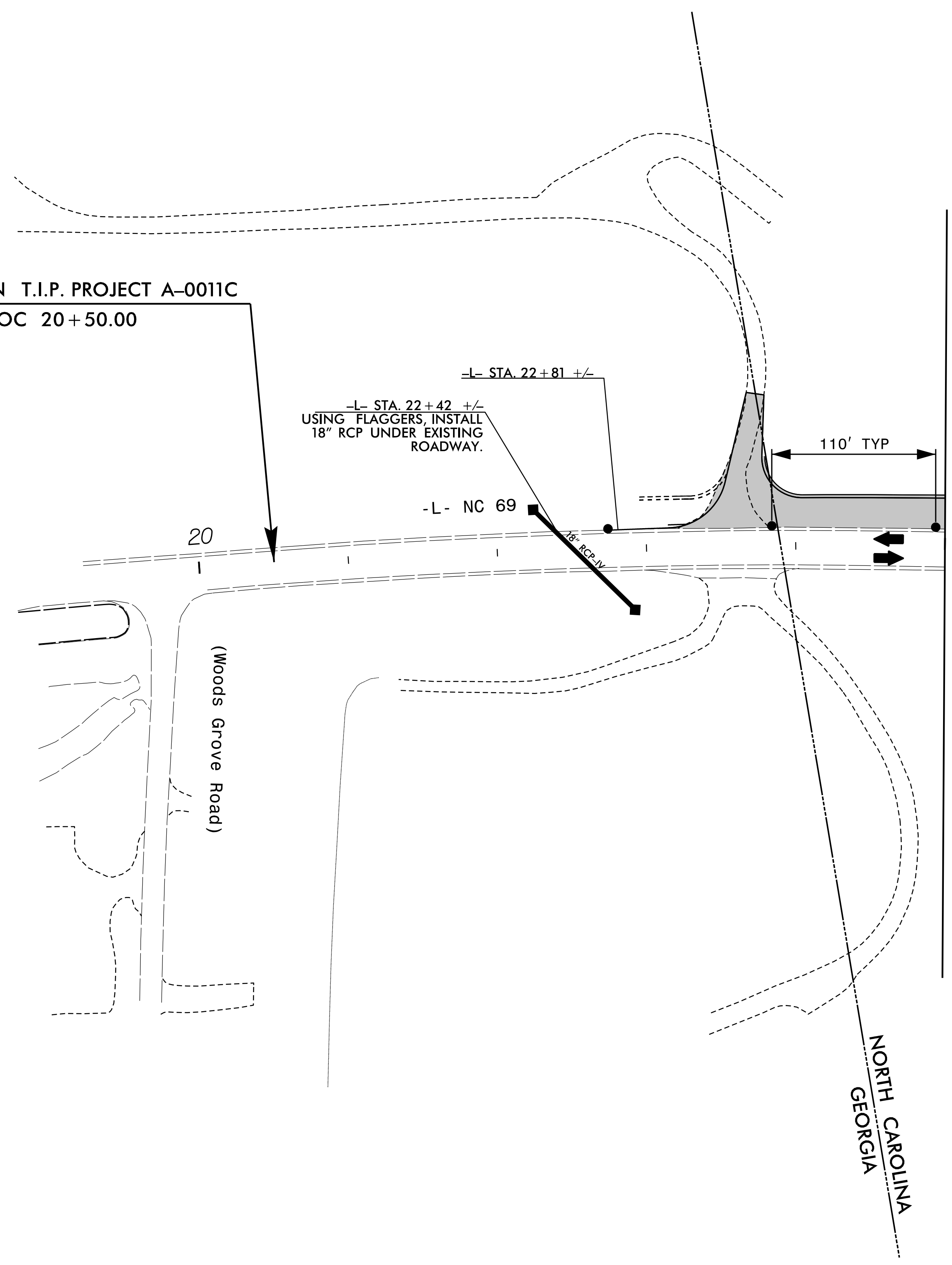
APPROVED: _____ DATE: 9/4/2019	 SEAL Nicholas E. Blum 77848AEAD0AEB	 DIVISION OF HIGHWAYS STATE OF NORTH CAROLINA DEPARTMENT OF TRANSPORTATION WORK ZONE TRAFFIC CONTROL	ROADWAY STANDARD DRAWINGS & LEGEND
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED			

PROJ. REFERENCE NO.	SHEET NO.
A-0011C	TMP-5

RAMEY KEMP ASSOCIATES, INC.
 Transportation Engineers
 8307 University Executive Park Drive, Suite 260
 Charlotte, North Carolina 28262
 704-549-4260 Tel. 704-549-4277 Fax.
 www.rameykemp.com
 NC License No. C-9910



BEGIN T.I.P. PROJECT A-0011C
 -L- POC 20+50.00

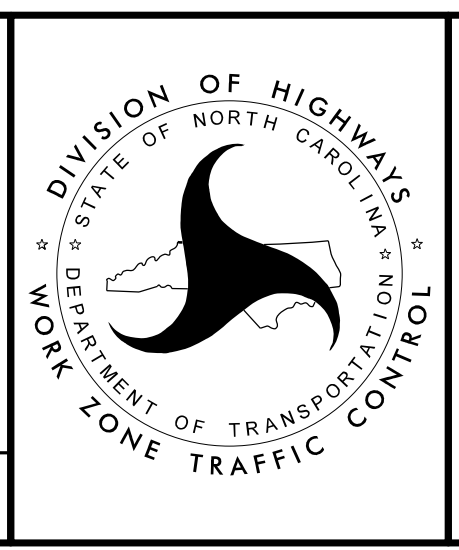


MATCH LINE -L- STA. 25+00
 SEE SHEET TMP-6

APPROVED: _____
 DATE: 9/4/2019

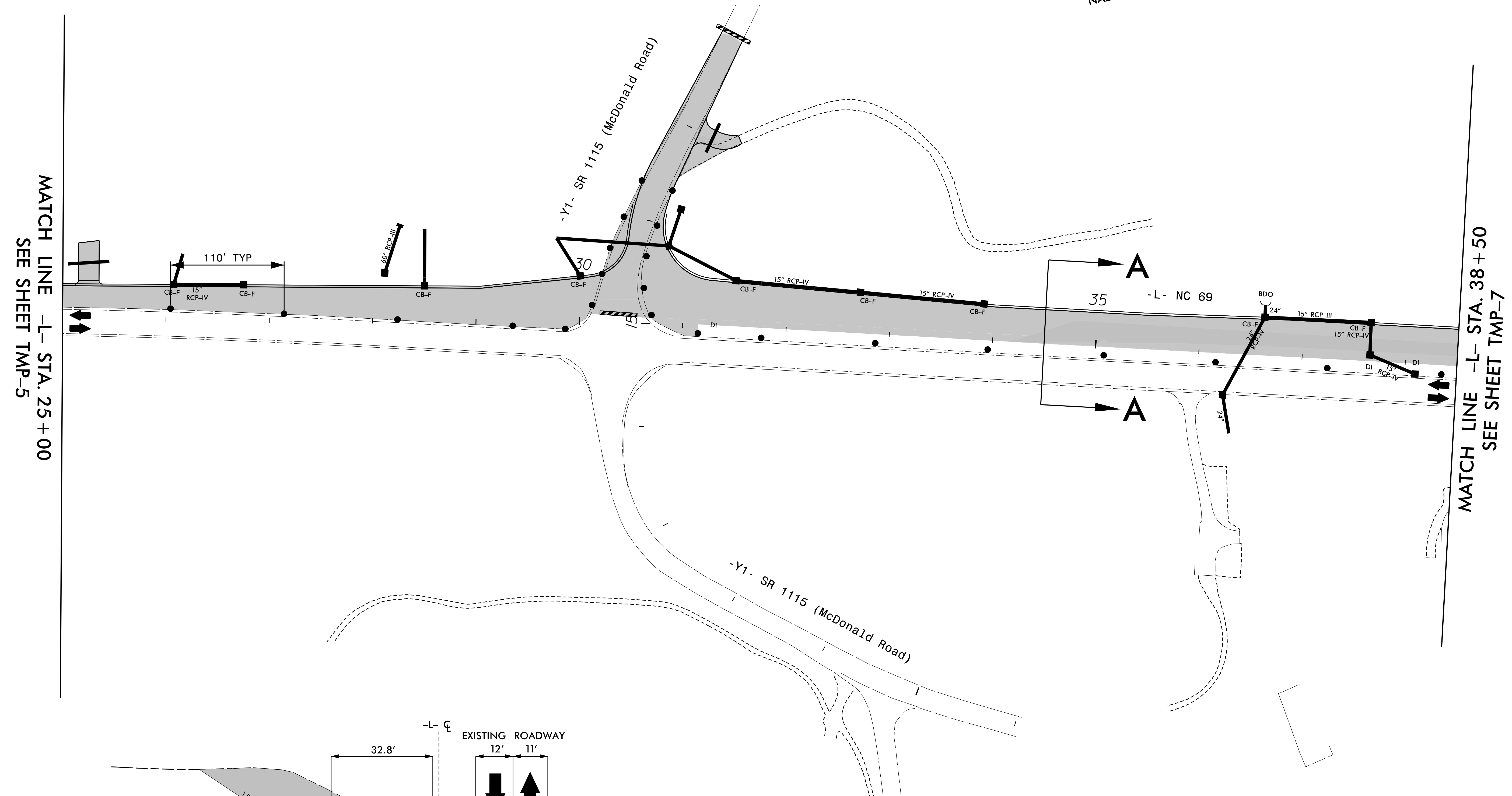
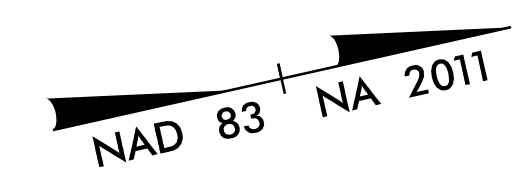
SEAL

DocuSigned by:
 Nicholas E. Burns
 77848AE4A004E8



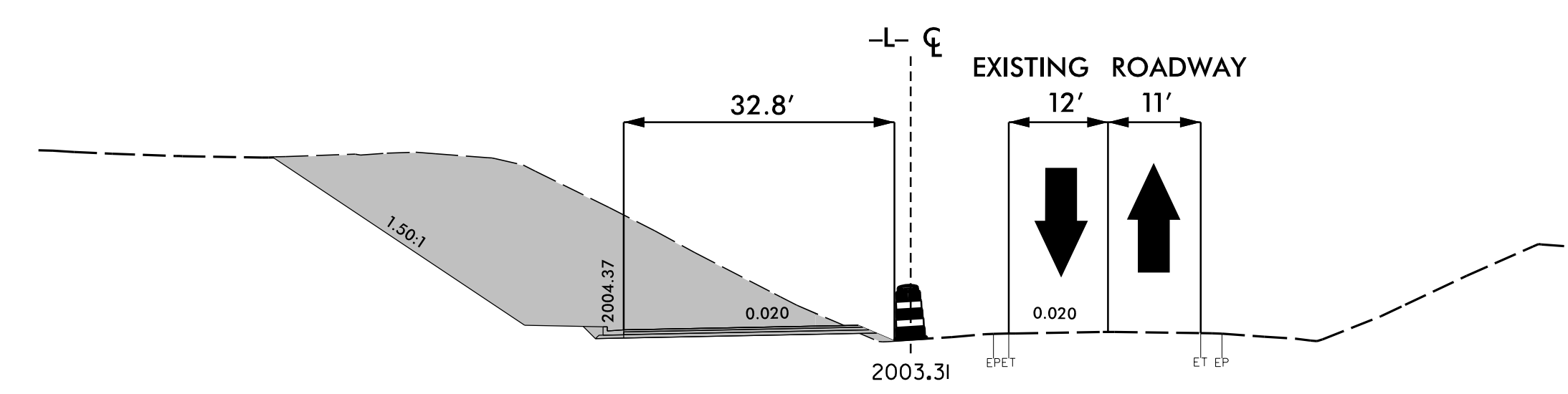
TEMPORARY TRAFFIC CONTROL PHASE I

DOCUMENT NOT CONSIDERED FINAL
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MATCH LINE -L- STA. 25+00
SEE SHEET TMP-5

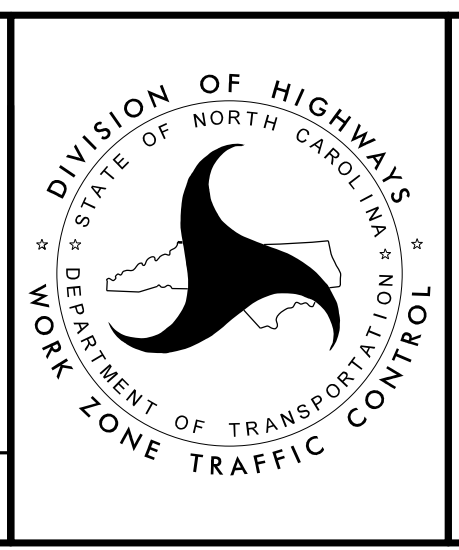
MATCH LINE -L- STA. 38+50
SEE SHEET TMP-7



SECTION A-A
-L- STA. 34+50.00

APPROVED: _____
 DATE: 9/4/2019

SEAL
 Documented by
 Nicholas E. Burns
 77848AE400DAE8

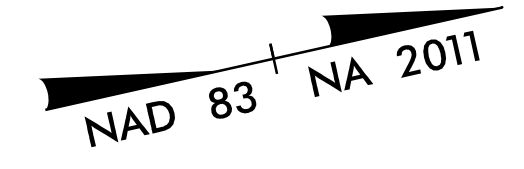


TEMPORARY TRAFFIC CONTROL PHASE I

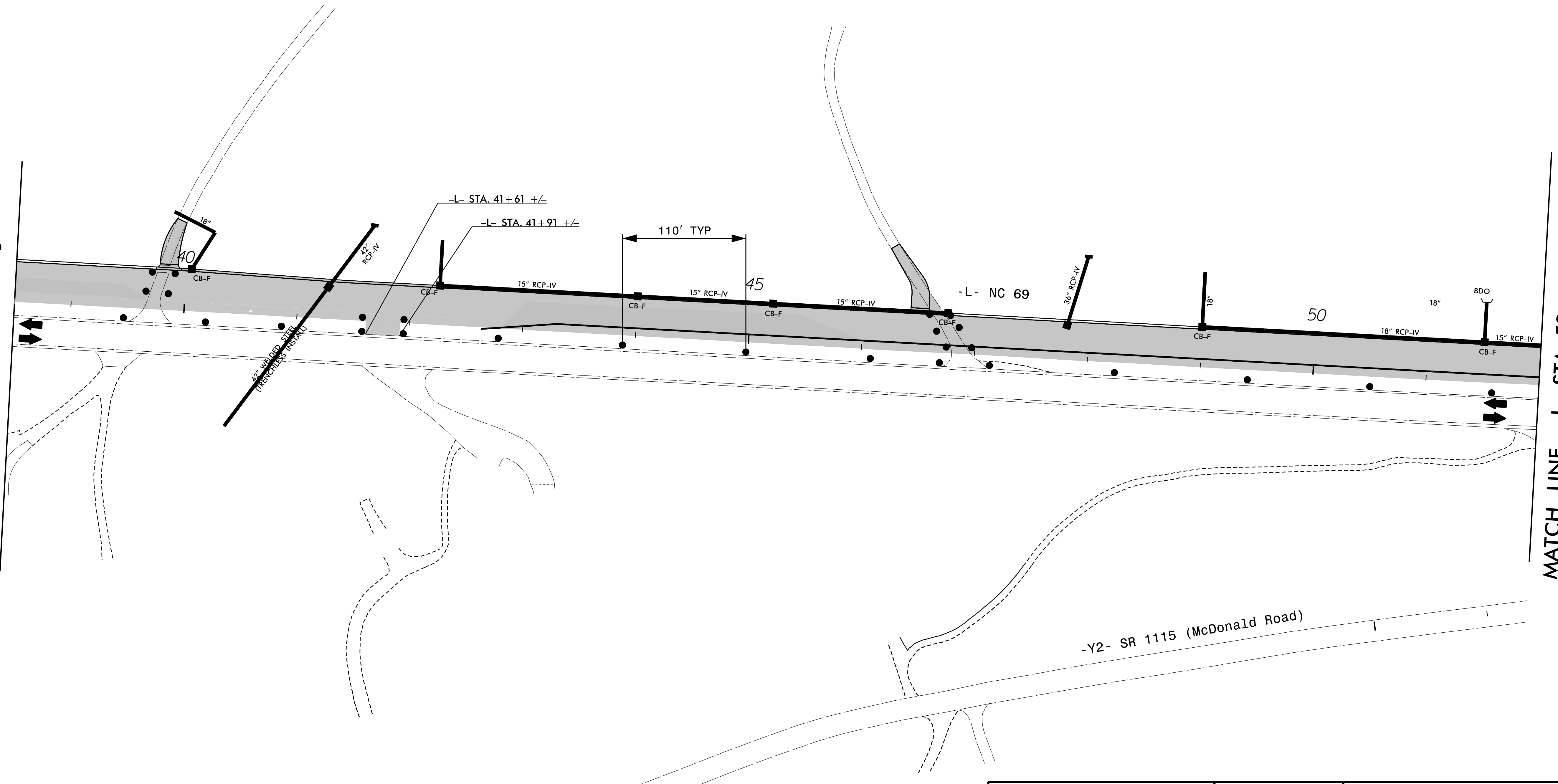
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

PROJ. REFERENCE NO.	SHEET NO.
A-0011C	TMP-7

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 Charlotte, North Carolina 28262
 704-549-4260 Tel. 704-549-4277 Fax.
 www.rameykemp.com
 NC License No. C-9910



MATCH LINE -L- STA. 38+50
SEE SHEET TMP-6

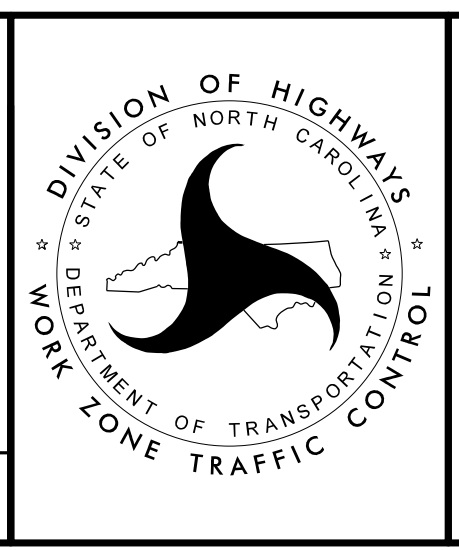


MATCH LINE -L- STA. 52+00
SEE SHEET TMP-8

APPROVED: _____
 DATE: 9/4/2019

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 Nicholas E. Burns
 77848AE40004E8

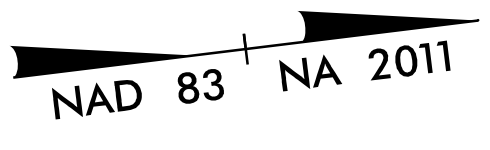
SEAL
 NORTH CAROLINA
 PROFESSIONAL ENGINEER
 SEAL 046300
 NICHOLAS E. BURNS
 77848AE40004E8



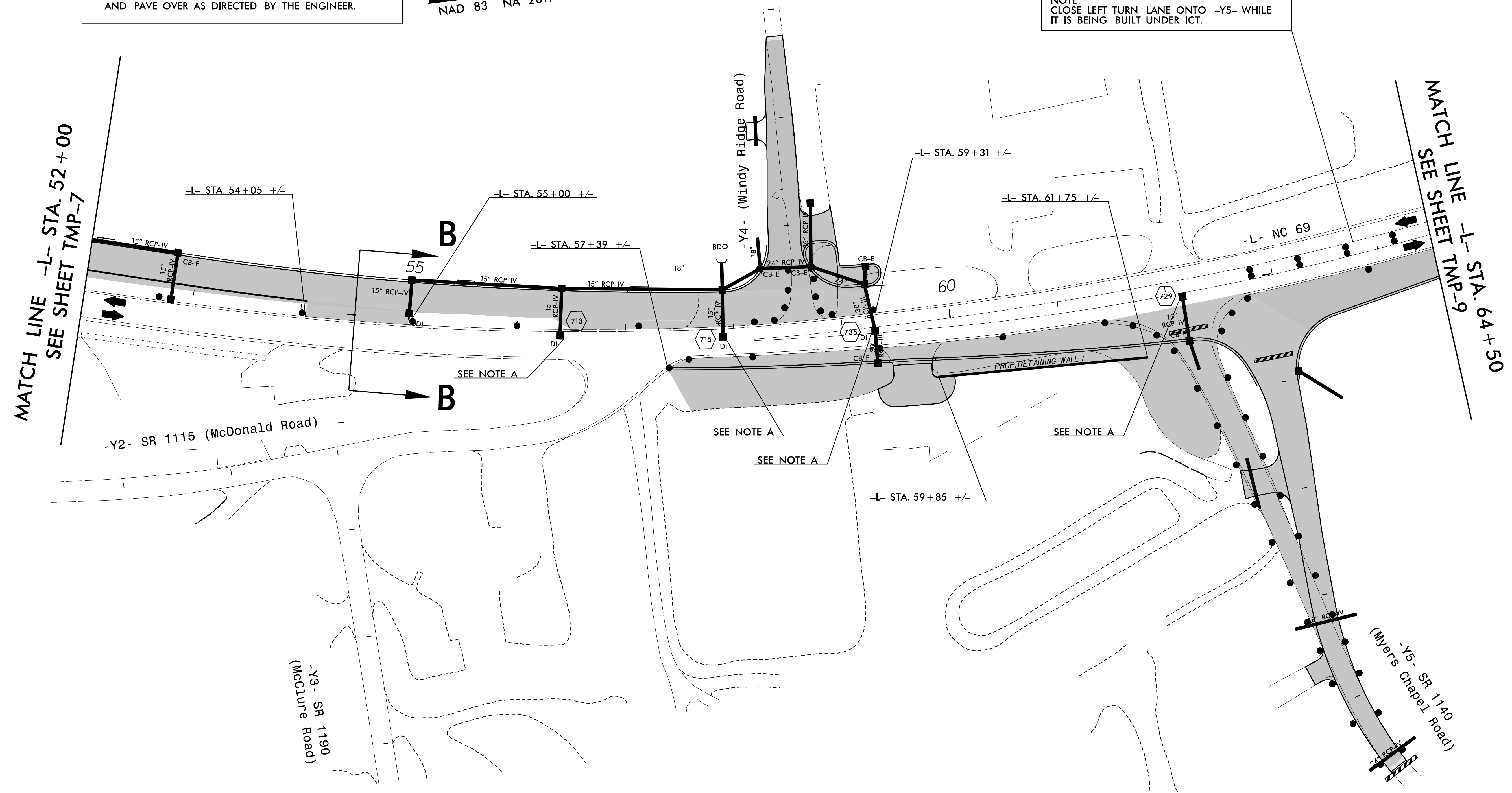
TEMPORARY TRAFFIC CONTROL PHASE I

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

NOTE A:
 USE FLAGGERS TO INSTALL TRAFFIC BEARING PRECAST DRAINAGE STR. 715, 729, AND 735 SHORT OF THE FINAL GRADE. FIELD VERIFY TOP OF STRUCTURE ELEVATIONS PRIOR TO MANUFACTURE. BACKFILL/PLATE AND PAVE OVER AS DIRECTED BY THE ENGINEER.

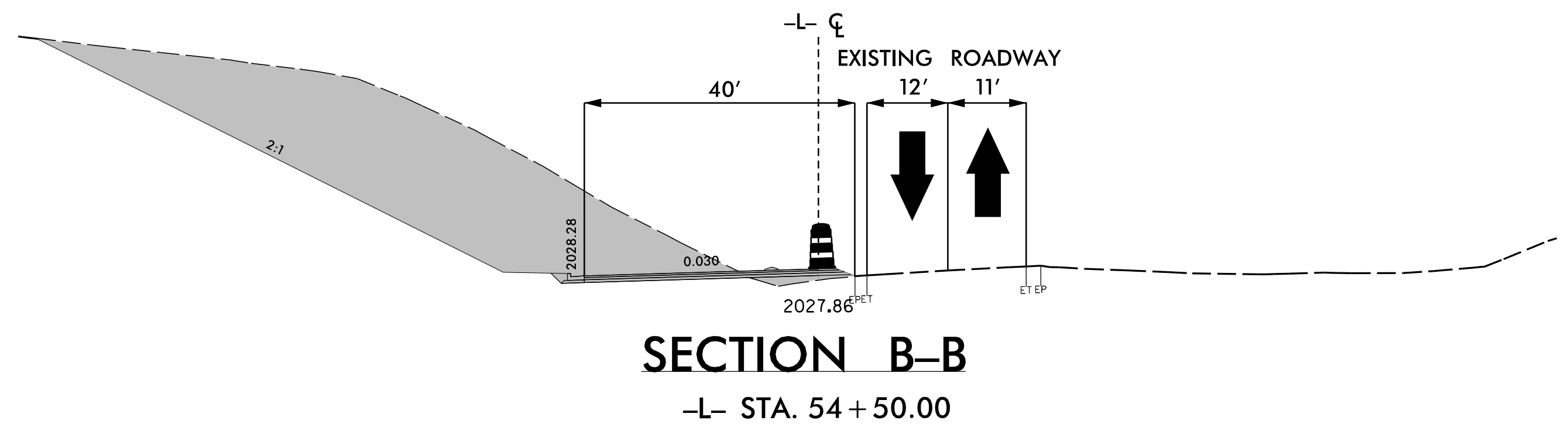


NOTE:
 CLOSE LEFT TURN LANE ONTO -Y5- WHILE IT IS BEING BUILT UNDER ICT.



MATCH LINE -L- STA. 52+00
 SEE SHEET TMP-7

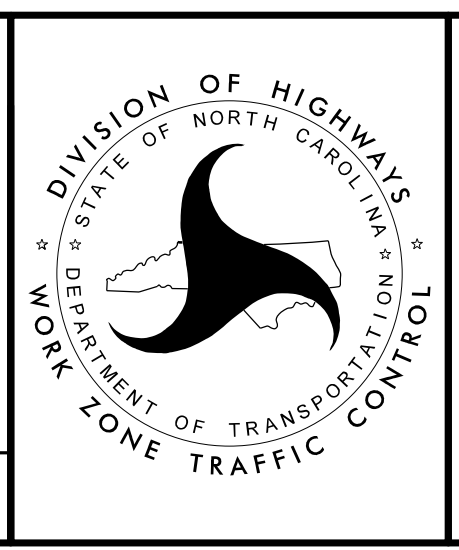
MATCH LINE -L- STA. 64+50
 SEE SHEET TMP-9



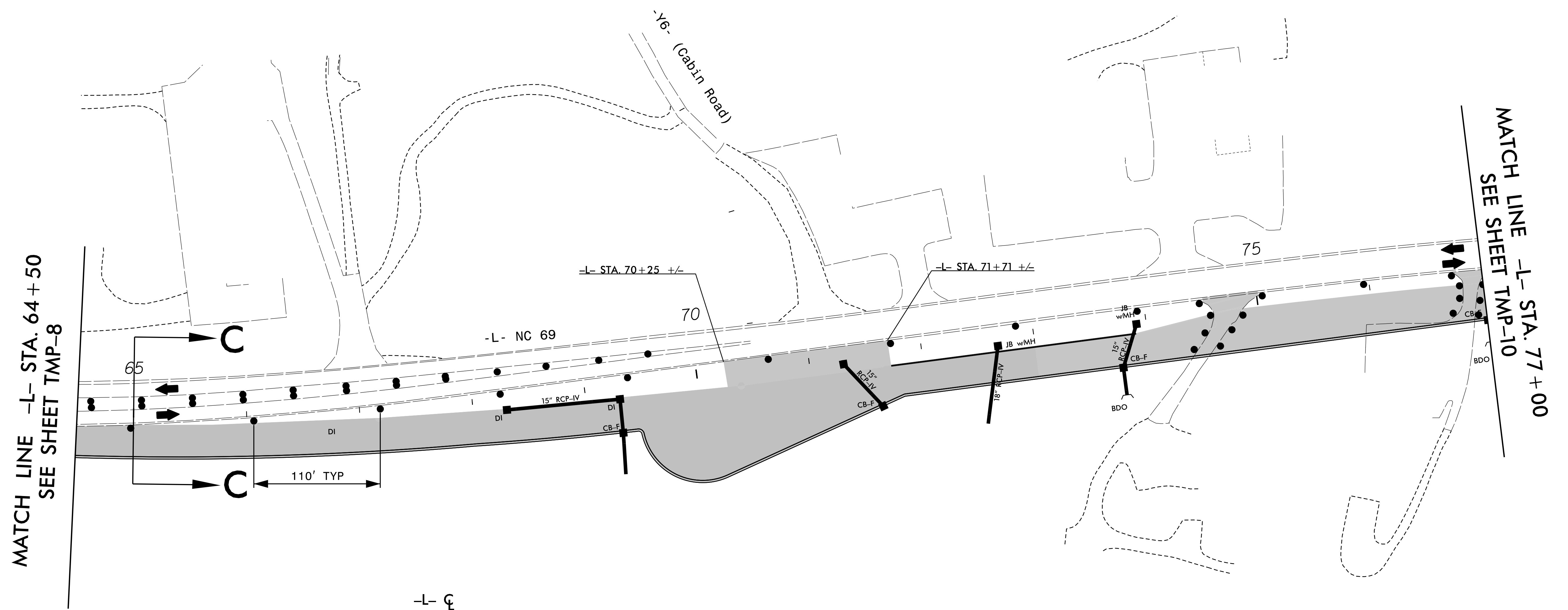
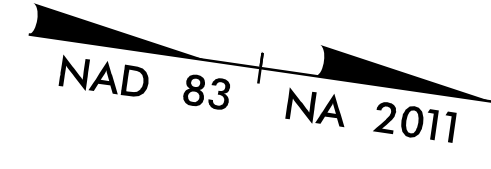
APPROVED: _____
 DATE: 9/4/2019

SEAL
 Designed by
 Nicholas E. Burns
 77848AEAD0AEB

DOCUMENT NOT CONSIDERED FINAL
 UNLESS ALL SIGNATURES COMPLETED

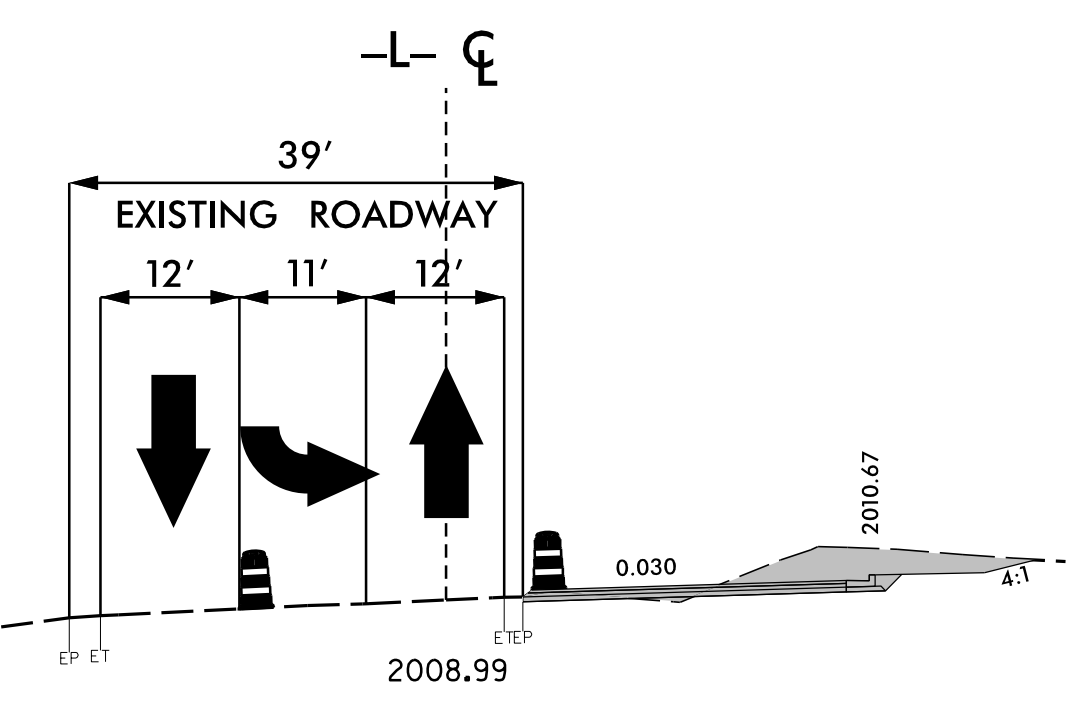


TEMPORARY TRAFFIC CONTROL PHASE I



MATCH LINE -L- STA. 64+50
SEE SHEET TMP-8

MATCH LINE -L- STA. 77+00
SEE SHEET TMP-10

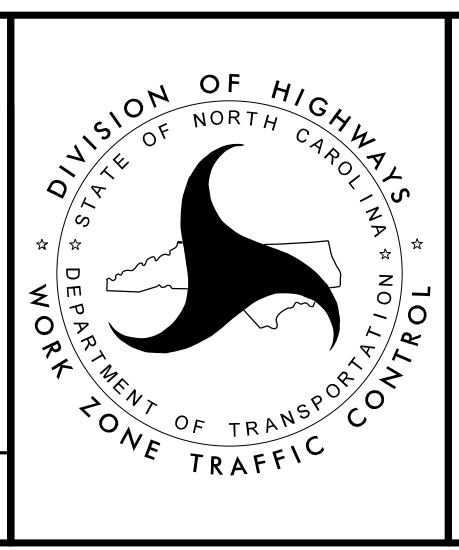


SECTION C-C
-L- STA. 65+00.00

APPROVED: _____
 DATE: 9/4/2019

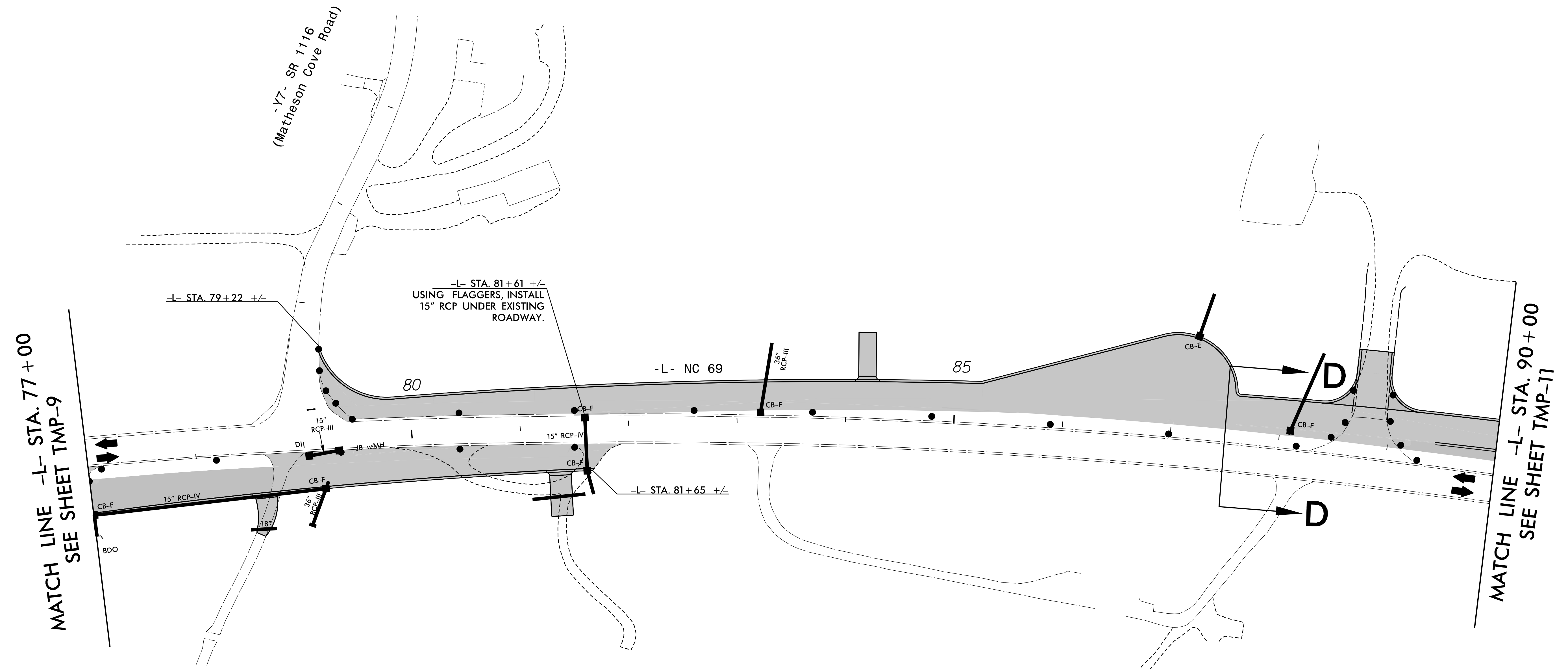
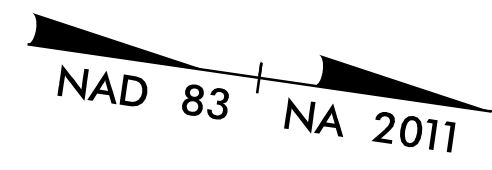
SEAL
 DocuSigned by:
 Nicholas E. Burns
 77848A8A00A8E8...

SEAL
 NORTH CAROLINA
 PROFESSIONAL ENGINEER
 SEAL 046300
 NICHOLAS E. BURNS



TEMPORARY TRAFFIC CONTROL PHASE I

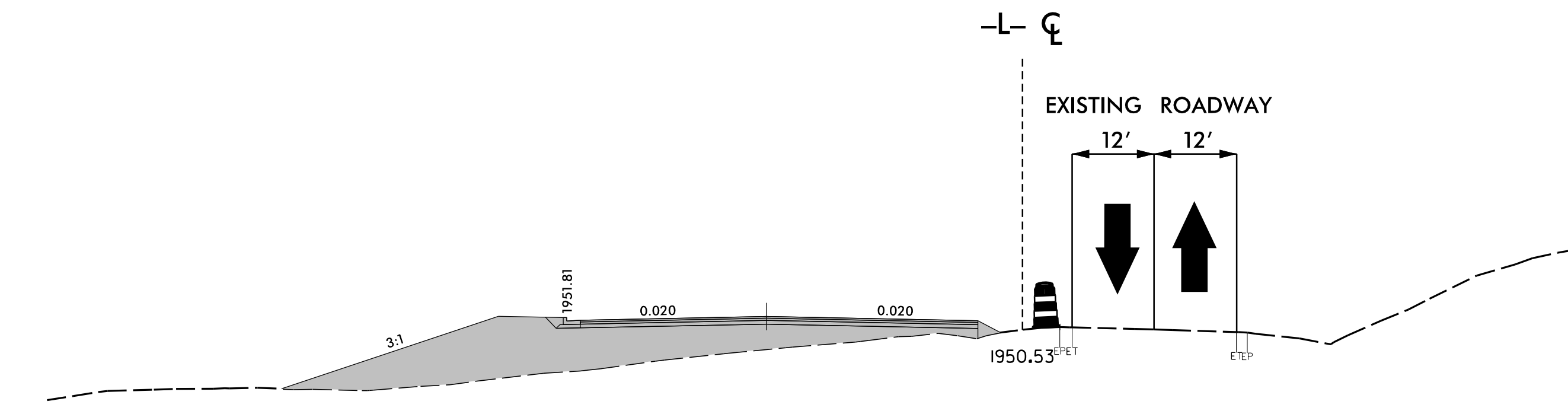
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MATCH LINE -L- STA. 77+00
SEE SHEET TMP-9

MATCH LINE -L- STA. 90+00
SEE SHEET TMP-11

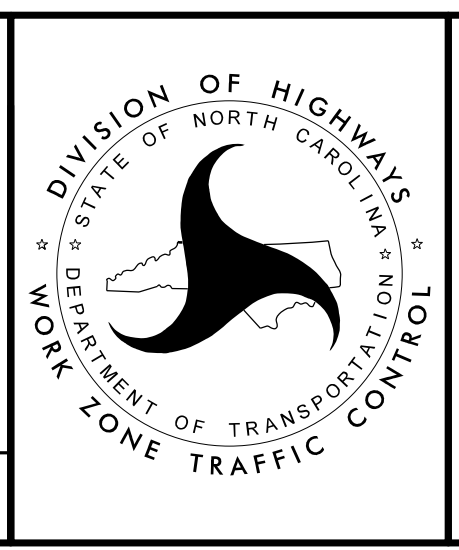
-L- STA. 81+61 +/-
USING FLAGGERS, INSTALL
15" RCP UNDER EXISTING
ROADWAY.



SECTION D-D
-L- STA. 87+50.00

APPROVED: _____
 DATE: 9/4/2019

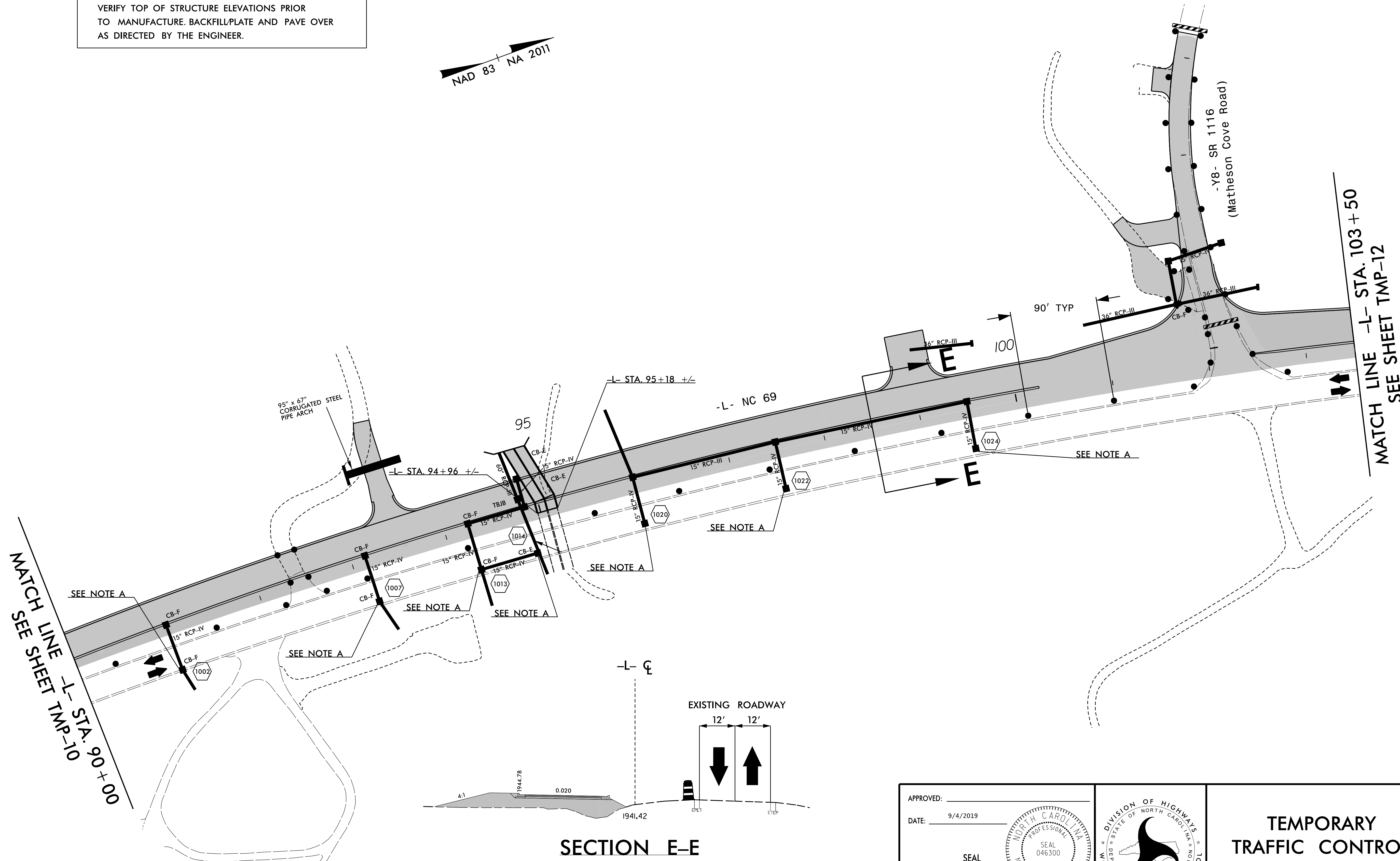
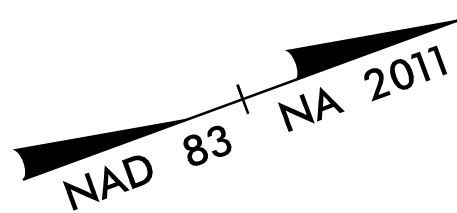
SEAL
 DocuSigned by:
 Nicholas E. Burns
 77848A8A00A8E8



**TEMPORARY
TRAFFIC CONTROL
PHASE I**

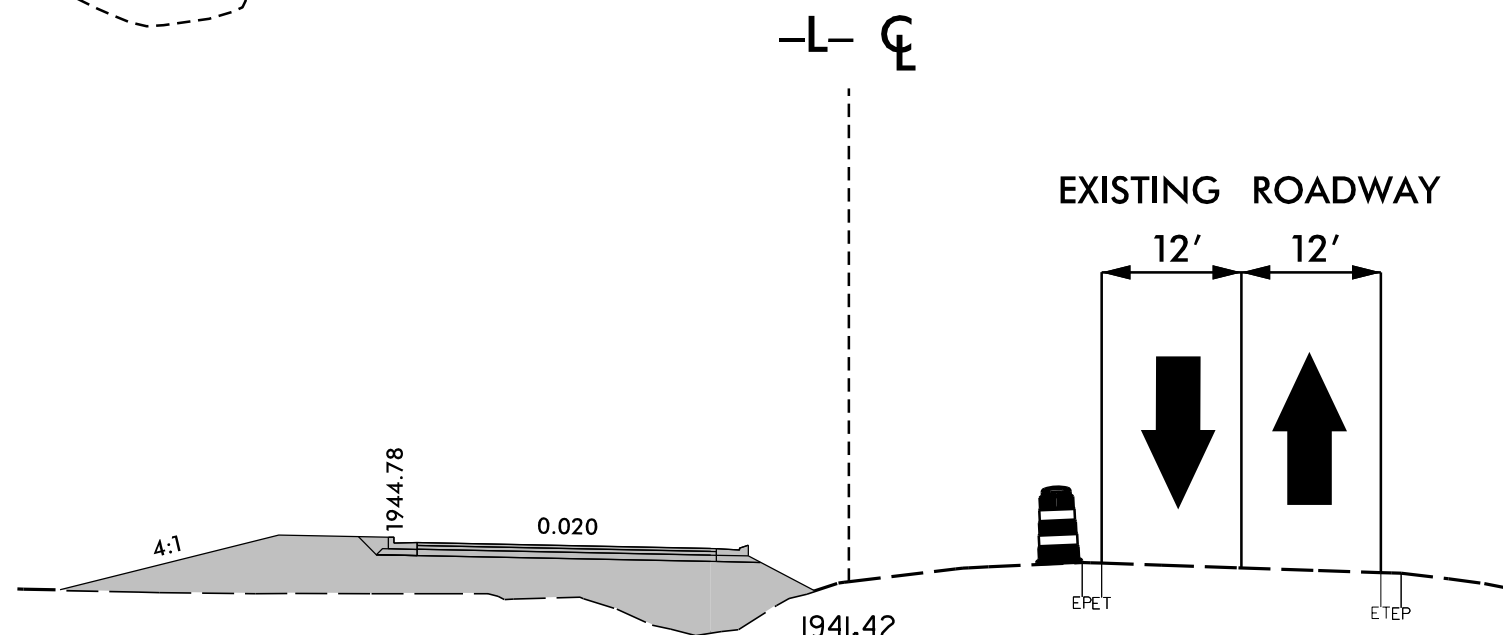
**DOCUMENT NOT CONSIDERED FINAL
UNLESS ALL SIGNATURES COMPLETED**

NOTE A:
USE FLAGGERS TO INSTALL TRAFFIC BEARING PRECAST DRAINAGE STR. 1002, 1007, 1013, 1014, 1020, 1022, AND 1024 SHORT OF THE FINAL GRADE. FIELD VERIFY TOP OF STRUCTURE ELEVATIONS PRIOR TO MANUFACTURE. BACKFILL/PLATE AND PAVE OVER AS DIRECTED BY THE ENGINEER.



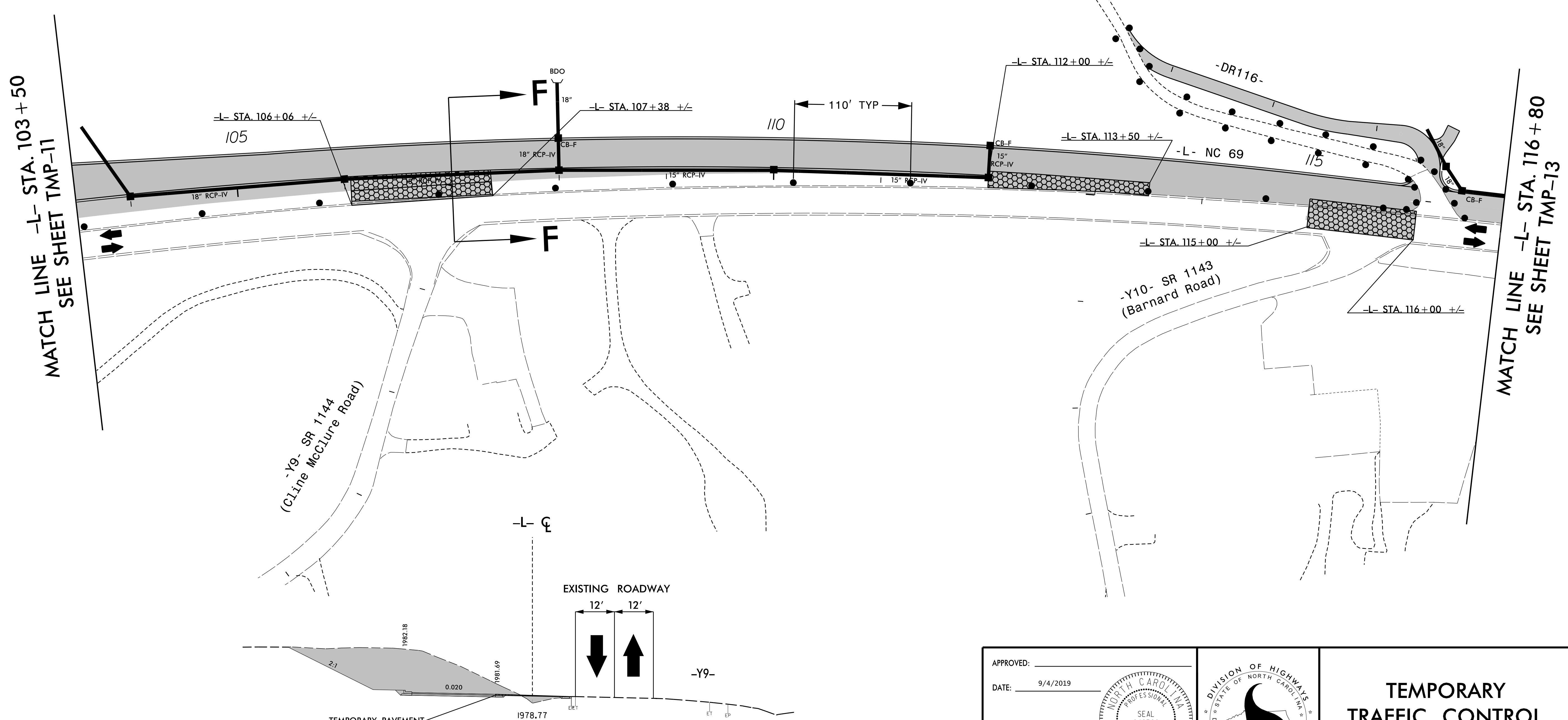
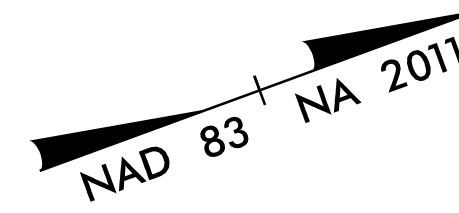
MATCH LINE -L- STA. 90+00
SEE SHEET TMP-10

MATCH LINE -L- STA. 103+50
SEE SHEET TMP-12



SECTION E-E
-L- STA. 98+50.00

APPROVED: _____			<p>TEMPORARY TRAFFIC CONTROL PHASE I</p>
DATE: 9/4/2019			
<p>DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED</p>			

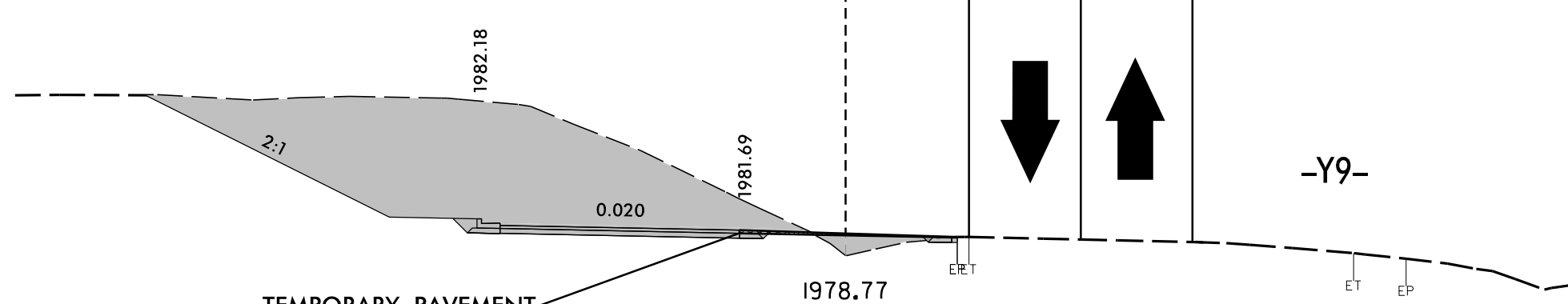


MATCH LINE -L- STA. 103 + 50
SEE SHEET TMP-11

MATCH LINE -L- STA. 116 + 80
SEE SHEET TMP-13

-Y9- SR 1144
(C-Line McClure Road)

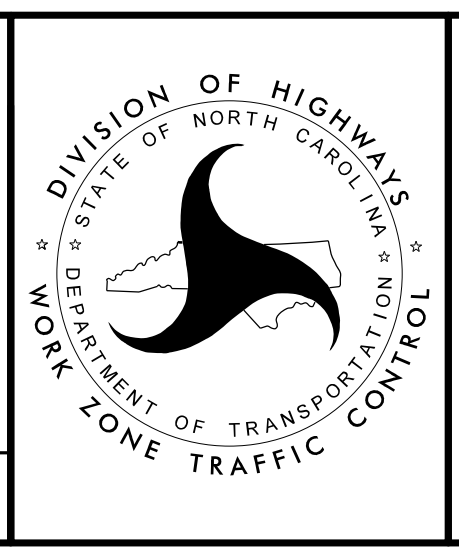
-Y10- SR 1143
(Barnard Road)



SECTION F-F
-L- STA. 107 + 00.00

APPROVED: _____
 DATE: 9/4/2019

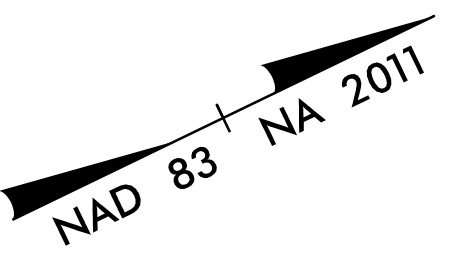
SEAL
 DocuSigned by:
 Nicholas E. Burns
 77848AE4A00A6E8



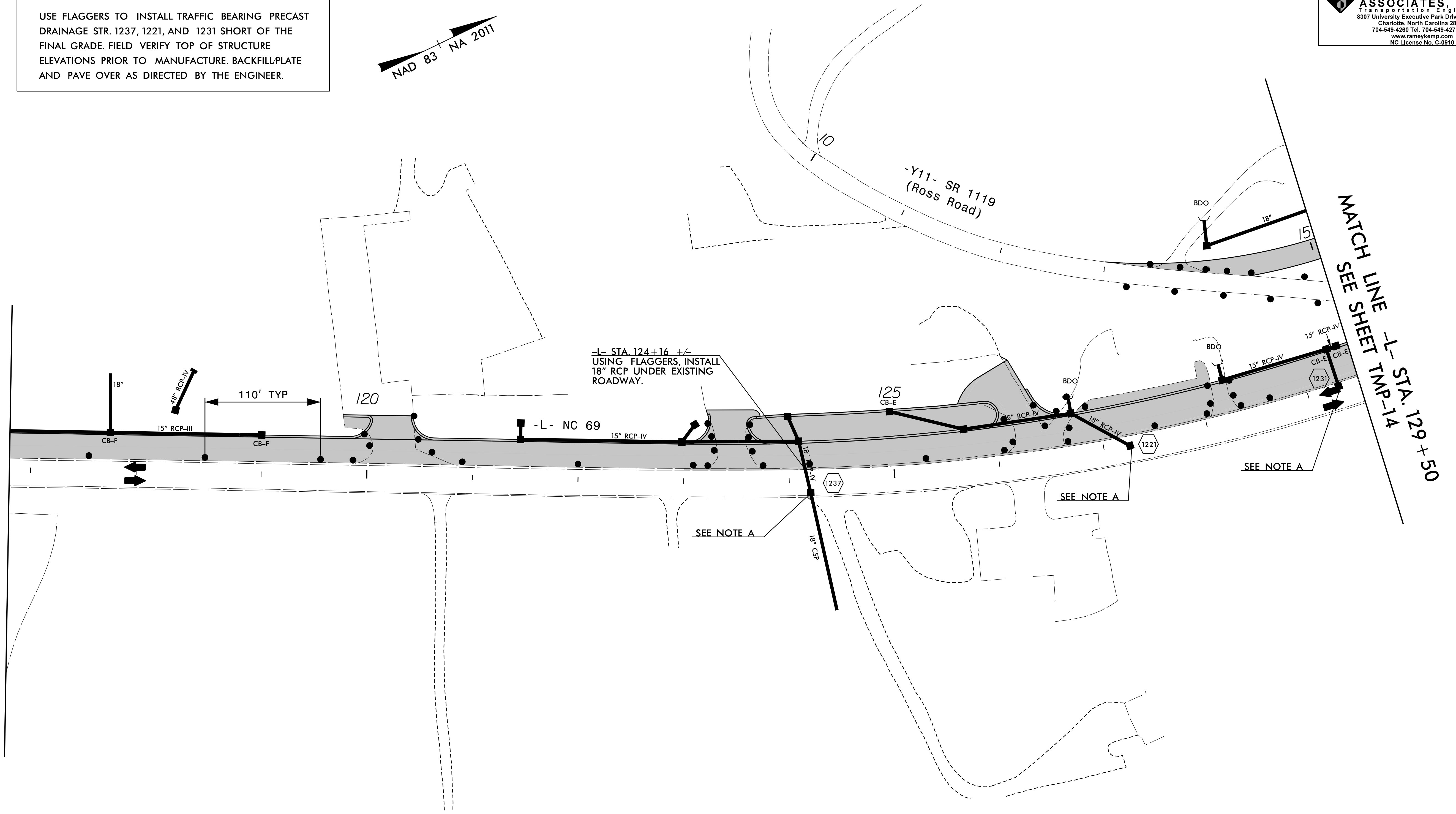
TEMPORARY TRAFFIC CONTROL PHASE I

DOCUMENT NOT CONSIDERED FINAL
UNLESS ALL SIGNATURES COMPLETED

NOTE A:
 USE FLAGGERS TO INSTALL TRAFFIC BEARING PRECAST DRAINAGE STR. 1237, 1221, AND 1231 SHORT OF THE FINAL GRADE. FIELD VERIFY TOP OF STRUCTURE ELEVATIONS PRIOR TO MANUFACTURE. BACKFILL/PLATE AND PAVE OVER AS DIRECTED BY THE ENGINEER.



MATCH LINE -L- STA. 116 + 80
SEE SHEET TMP-12



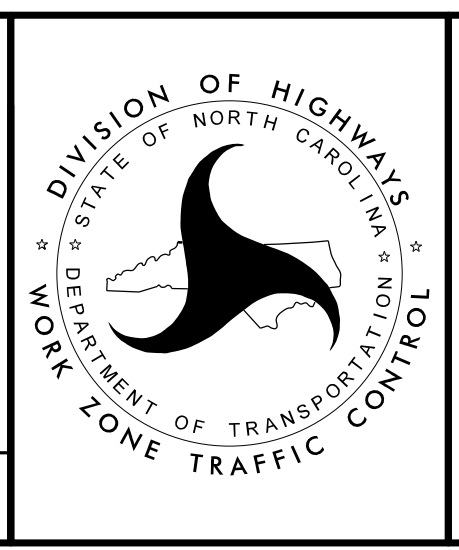
MATCH LINE -L- STA. 129 + 50
SEE SHEET TMP-14

APPROVED: _____
 DATE: 9/4/2019

SEAL

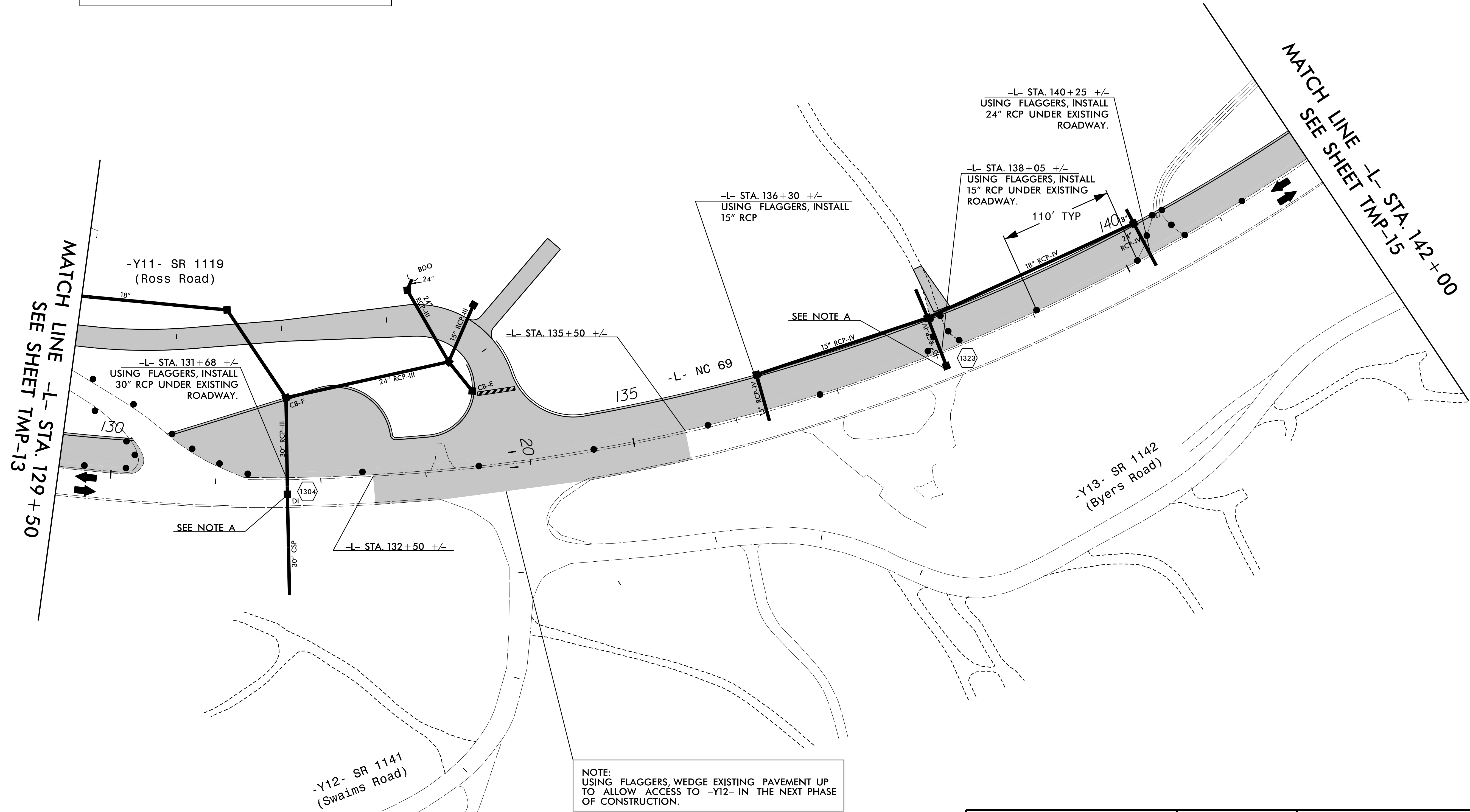
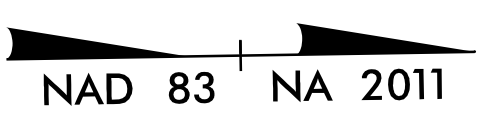
DocuSigned by:
Nicholas E. Burns
 77B4BAE4A00AEB

**DOCUMENT NOT CONSIDERED FINAL
 UNLESS ALL SIGNATURES COMPLETED**



**TEMPORARY
 TRAFFIC CONTROL
 PHASE I**

NOTE A:
 USE FLAGGERS TO INSTALL TRAFFIC BEARING PRECAST DRAINAGE STR. 1304, AND 1323 SHORT OF THE FINAL GRADE. FIELD VERIFY TOP OF STRUCTURE ELEVATIONS PRIOR TO MANUFACTURE. BACKFILL/PLATE AND PAVE OVER AS DIRECTED BY THE ENGINEER.



-L- STA. 140+25 +/-
 USING FLAGGERS, INSTALL
 24" RCP UNDER EXISTING
 ROADWAY.

-L- STA. 138+05 +/-
 USING FLAGGERS, INSTALL
 15" RCP UNDER EXISTING
 ROADWAY.

-L- STA. 136+30 +/-
 USING FLAGGERS, INSTALL
 15" RCP

-Y11- SR 1119
 (Ross Road)

-L- STA. 131+68 +/-
 USING FLAGGERS, INSTALL
 30" RCP UNDER EXISTING
 ROADWAY.

-L- STA. 135+50 +/-

-L- NC 69

-Y13- SR 1142
 (Byers Road)

-Y12- SR 1141
 (Swaims Road)

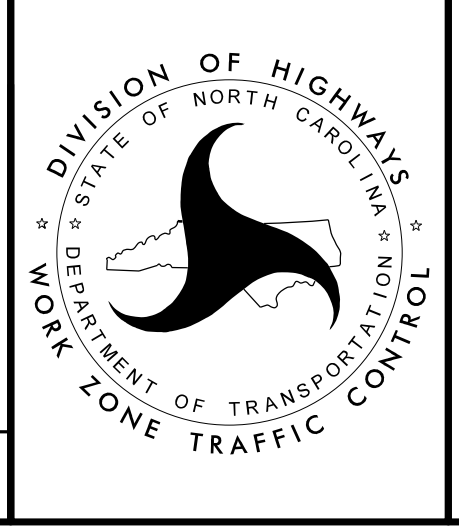
NOTE:
 USING FLAGGERS, WEDGE EXISTING PAVEMENT UP
 TO ALLOW ACCESS TO -Y12- IN THE NEXT PHASE
 OF CONSTRUCTION.

APPROVED: _____
 DATE: 9/4/2019

SEAL

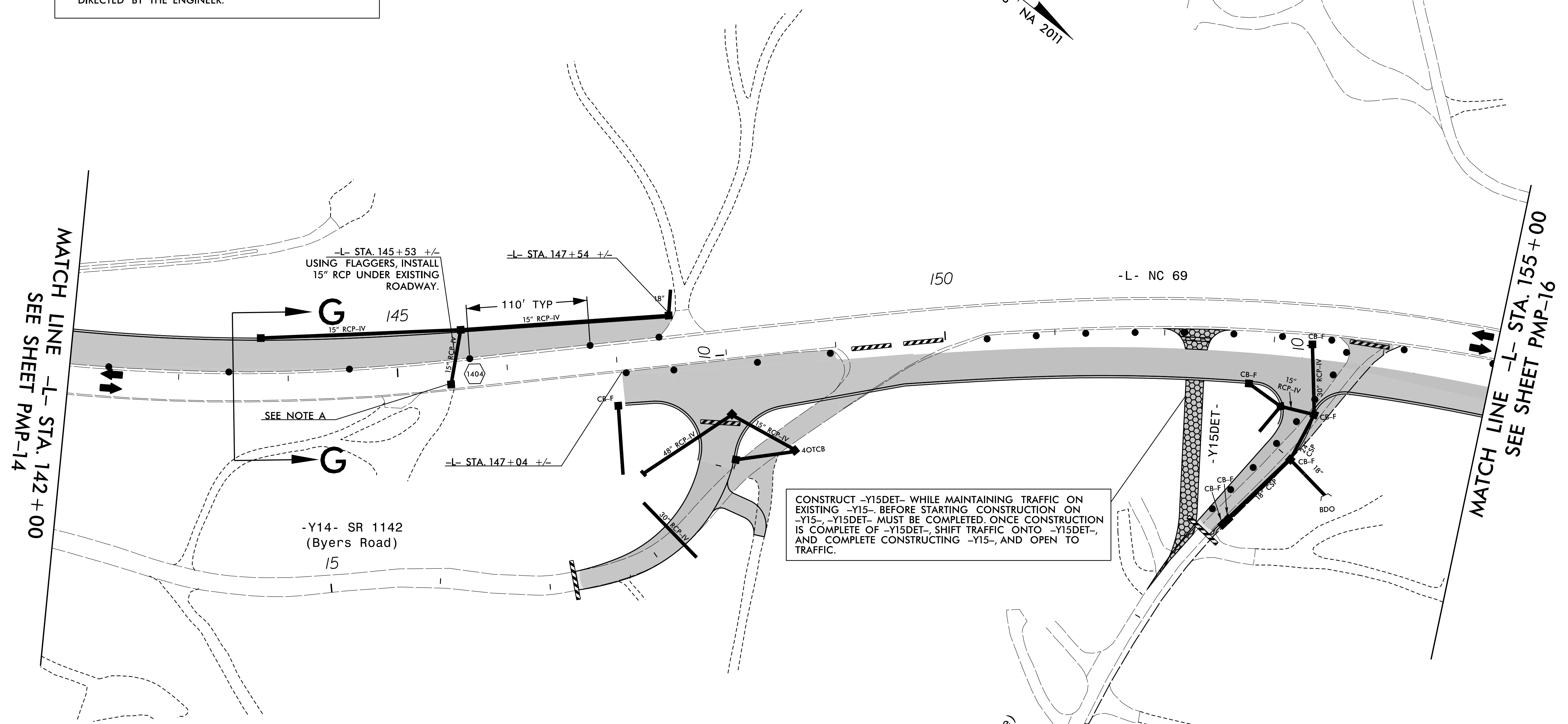
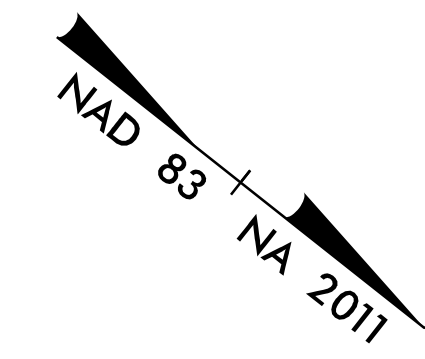
DocuSigned by:
 Nicholas E. Burns
 77848AE400AEB

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**TEMPORARY
 TRAFFIC CONTROL
 PHASE I**

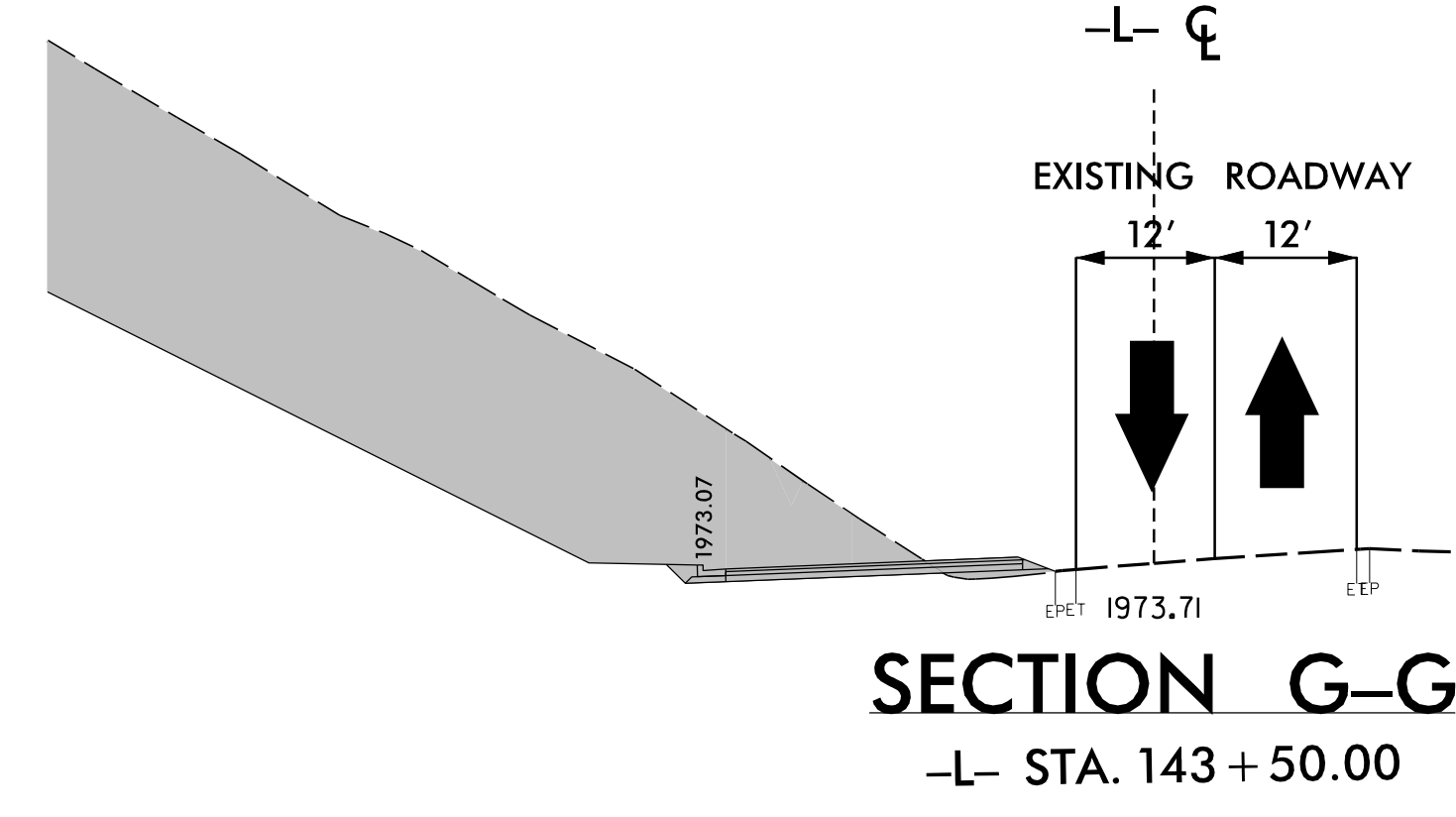
NOTE A:
 USE FLAGGERS TO INSTALL TRAFFIC BEARING PRECAST DRAINAGE STR. 1404 SHORT OF THE FINAL GRADE.
 FIELD VERIFY TOP OF STRUCTURE ELEVATIONS PRIOR TO MANUFACTURE. BACKFILL/PLATE AND PAVE OVER AS DIRECTED BY THE ENGINEER.



CONSTRUCT -Y15DET- WHILE MAINTAINING TRAFFIC ON EXISTING -Y15-. BEFORE STARTING CONSTRUCTION ON -Y15-, -Y15DET- MUST BE COMPLETED. ONCE CONSTRUCTION IS COMPLETE OF -Y15DET-, SHIFT TRAFFIC ONTO -Y15DET-, AND COMPLETE CONSTRUCTING -Y15-, AND OPEN TO TRAFFIC.

MATCH LINE -L- STA. 142+00
 SEE SHEET PMP-14

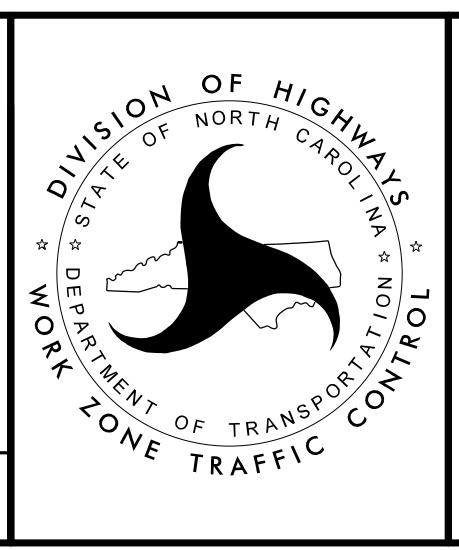
MATCH LINE -L- STA. 155+00
 SEE SHEET PMP-16



-Y15-
 (Cherrywood Drive)

APPROVED: _____
 DATE: 9/4/2019

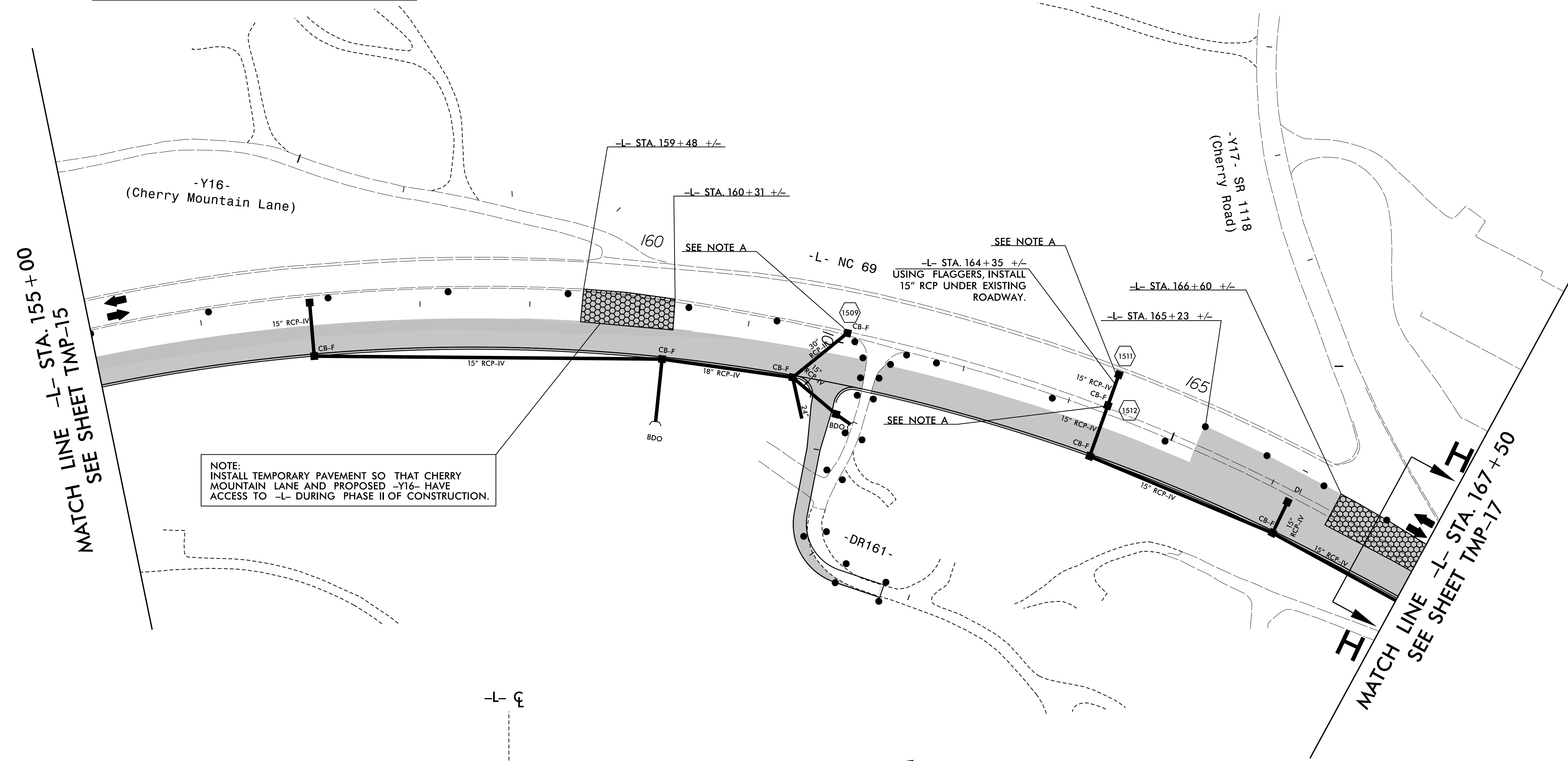
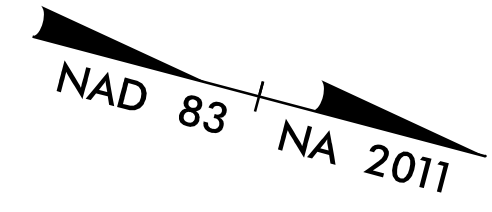
SEAL
 DocuSigned by:
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 77848AE40046E8



TEMPORARY TRAFFIC CONTROL PHASE I

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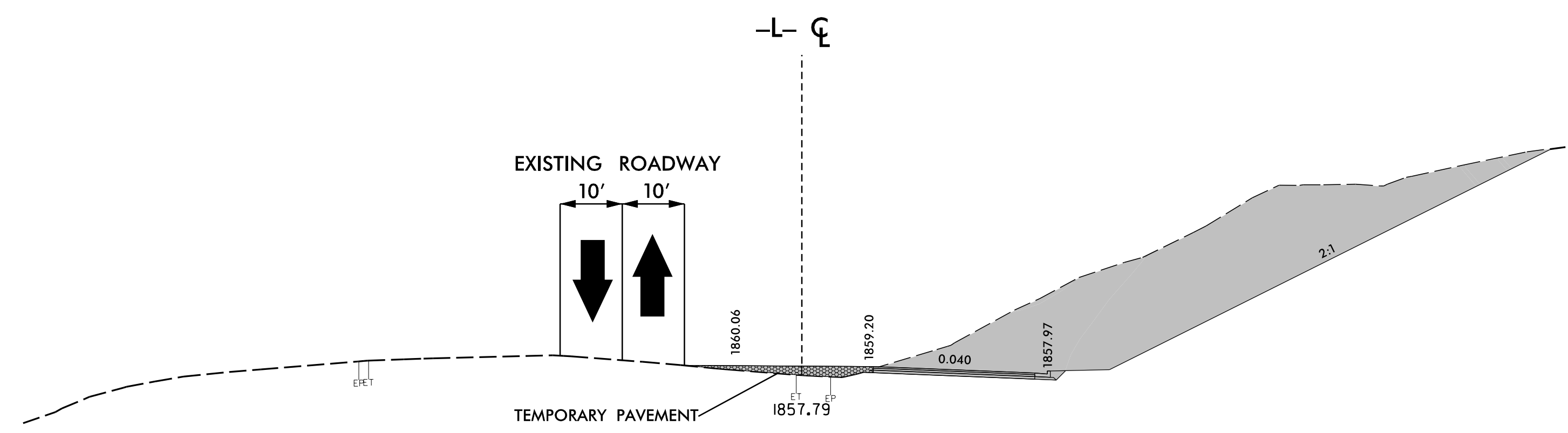
NOTE A:
 USE FLAGGERS TO INSTALL TRAFFIC BEARING PRECAST DRAINAGE STR. 1509, 1511, AND 1512 SHORT OF THE FINAL GRADE. FIELD VERIFY TOP OF STRUCTURE ELEVATIONS PRIOR TO MANUFACTURE. BACKFILL/PLATE AND PAVE OVER AS DIRECTED BY THE ENGINEER.



NOTE:
 INSTALL TEMPORARY PAVEMENT SO THAT CHERRY MOUNTAIN LANE AND PROPOSED -Y16- HAVE ACCESS TO -L- DURING PHASE II OF CONSTRUCTION.

MATCH LINE -L- STA. 155 + 00
 SEE SHEET TMP-15

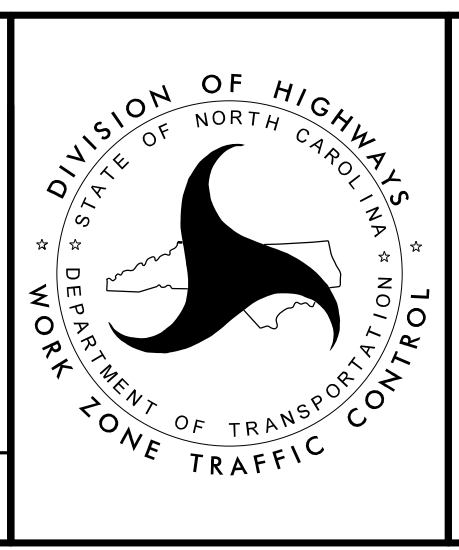
MATCH LINE -L- STA. 167 + 50
 SEE SHEET TMP-17



SECTION H-H
 -L- STA. 167 + 00.00

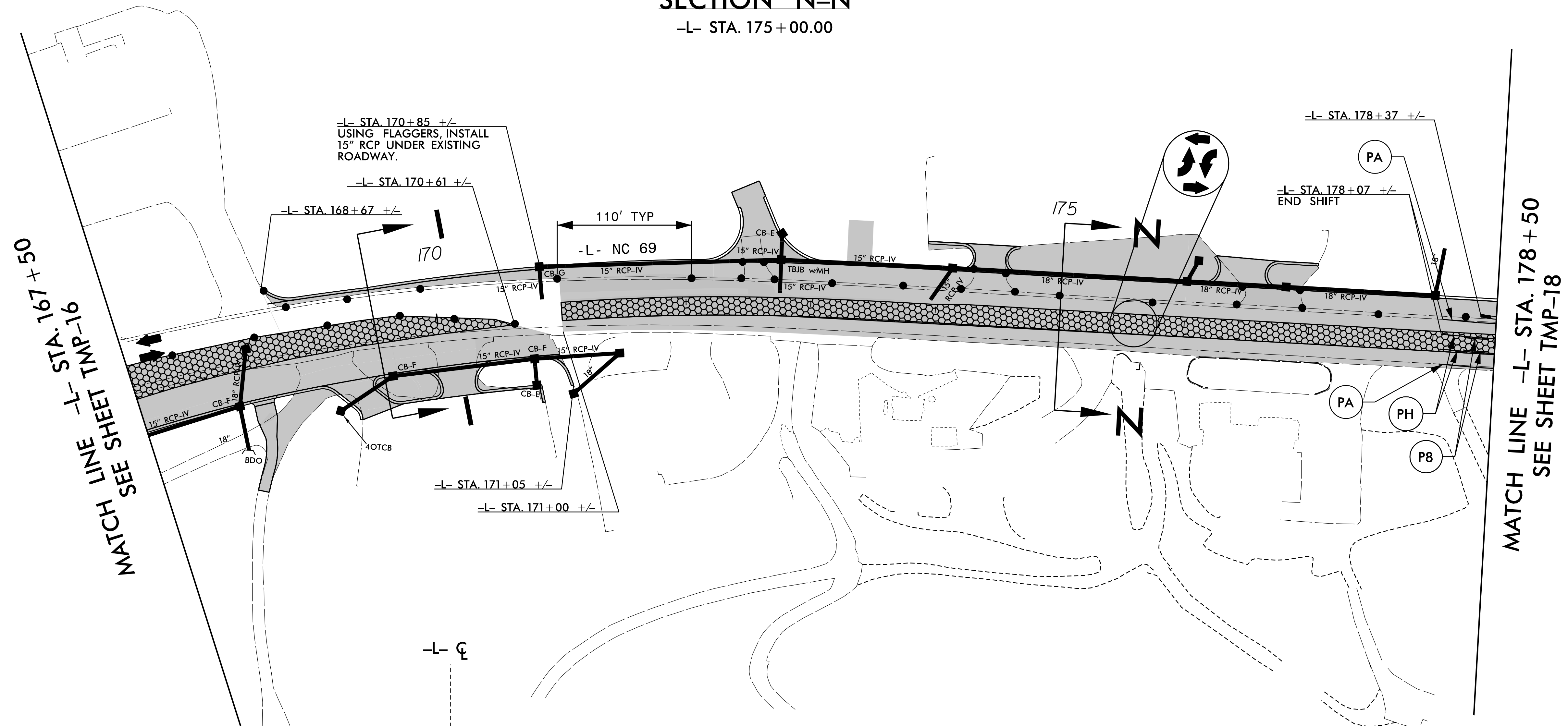
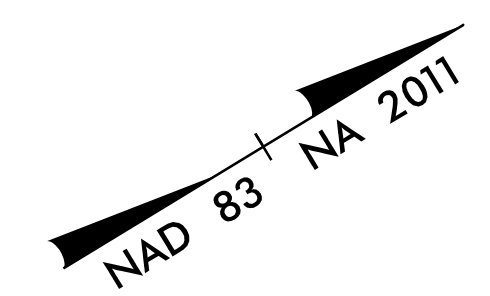
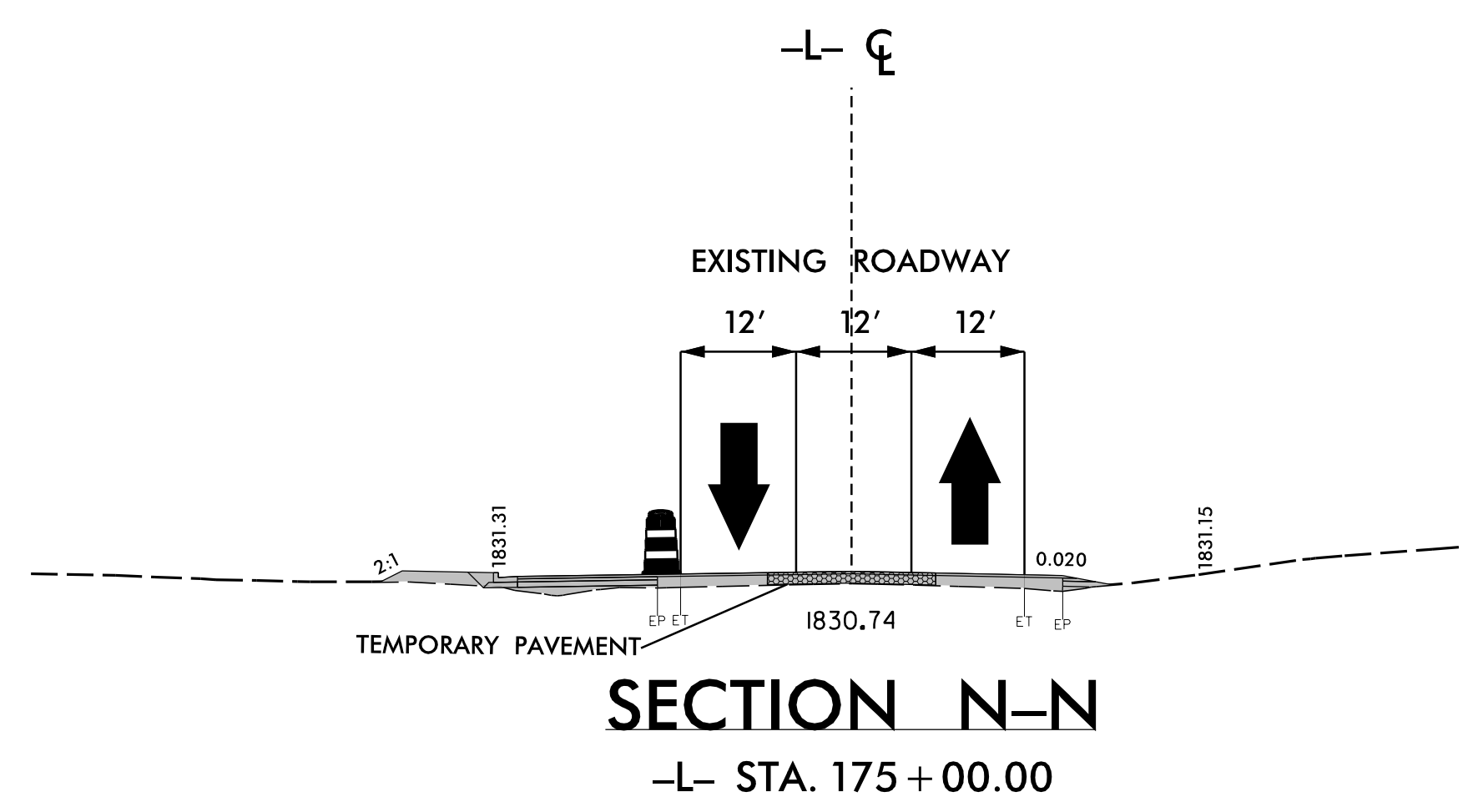
APPROVED: _____
 DATE: 9/4/2019

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 77848AE4004ME8



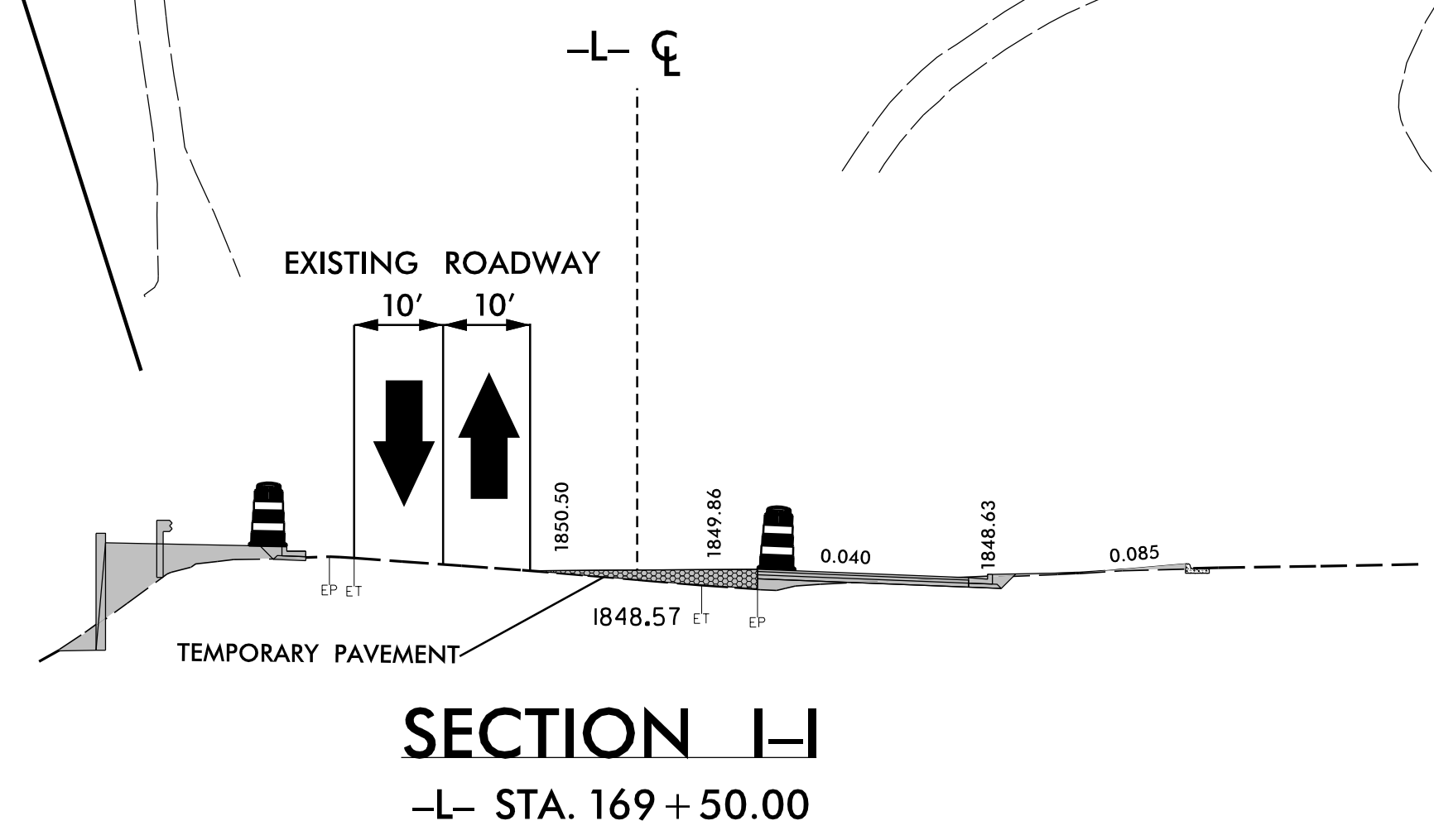
TEMPORARY TRAFFIC CONTROL PHASE I

DOCUMENT NOT CONSIDERED FINAL
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MATCH LINE -L- STA. 167 + 50
 SEE SHEET TMP-16

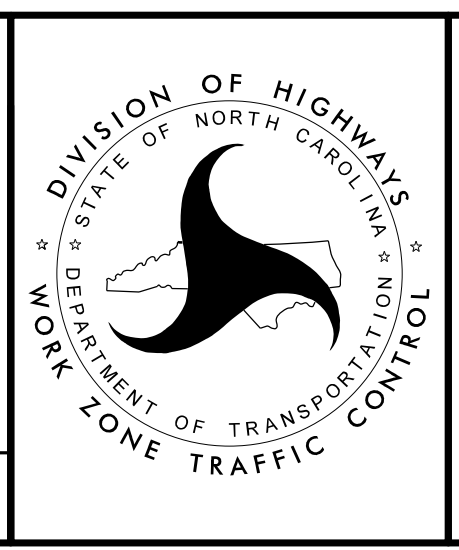
MATCH LINE -L- STA. 178 + 50
 SEE SHEET TMP-18



APPROVED: _____
 DATE: 9/4/2019

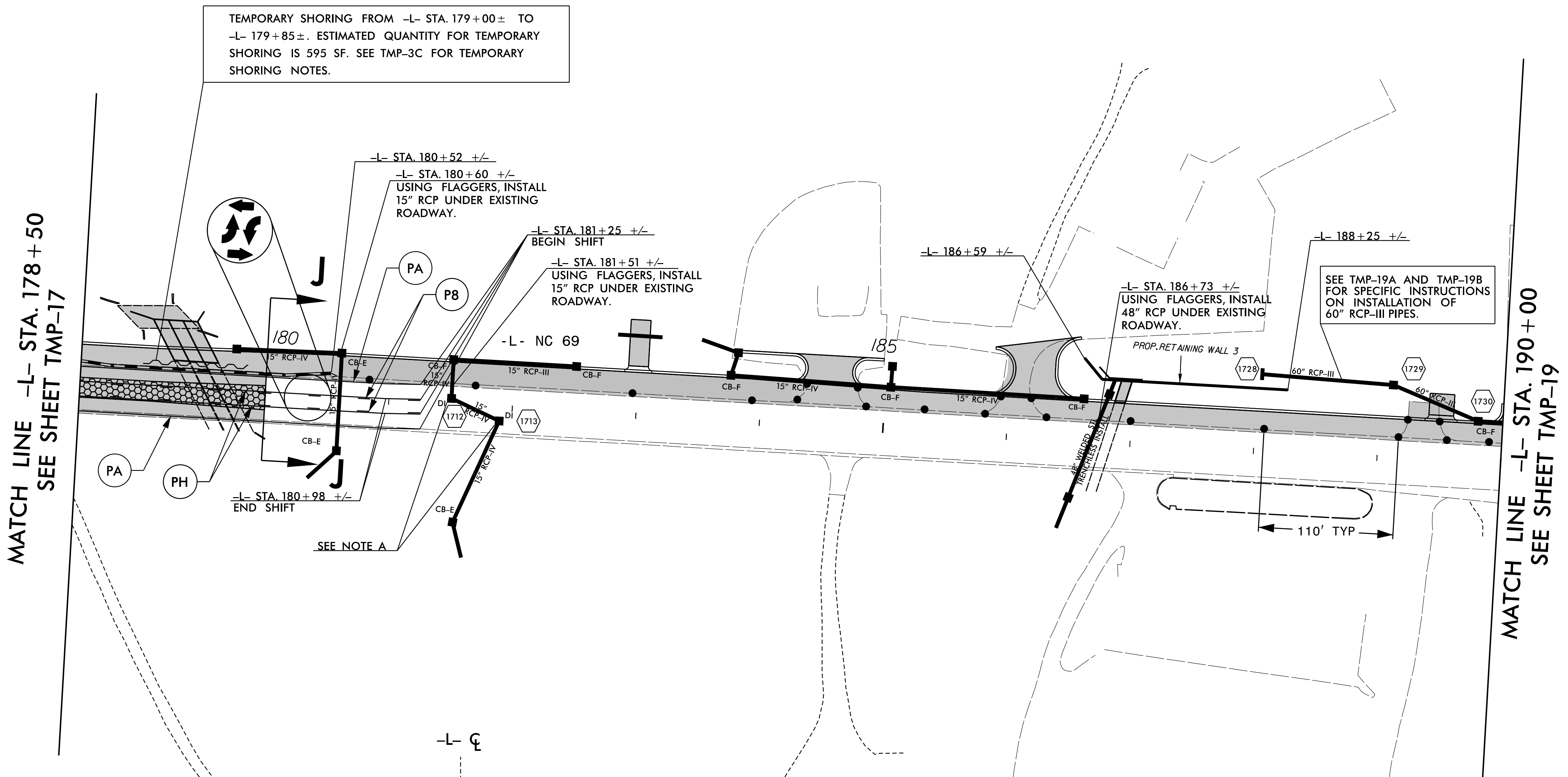
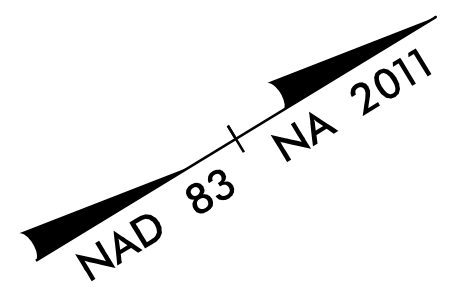
SEAL
 Documented by:
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 77848AE40004E8

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**TEMPORARY
 TRAFFIC CONTROL
 PHASE I**

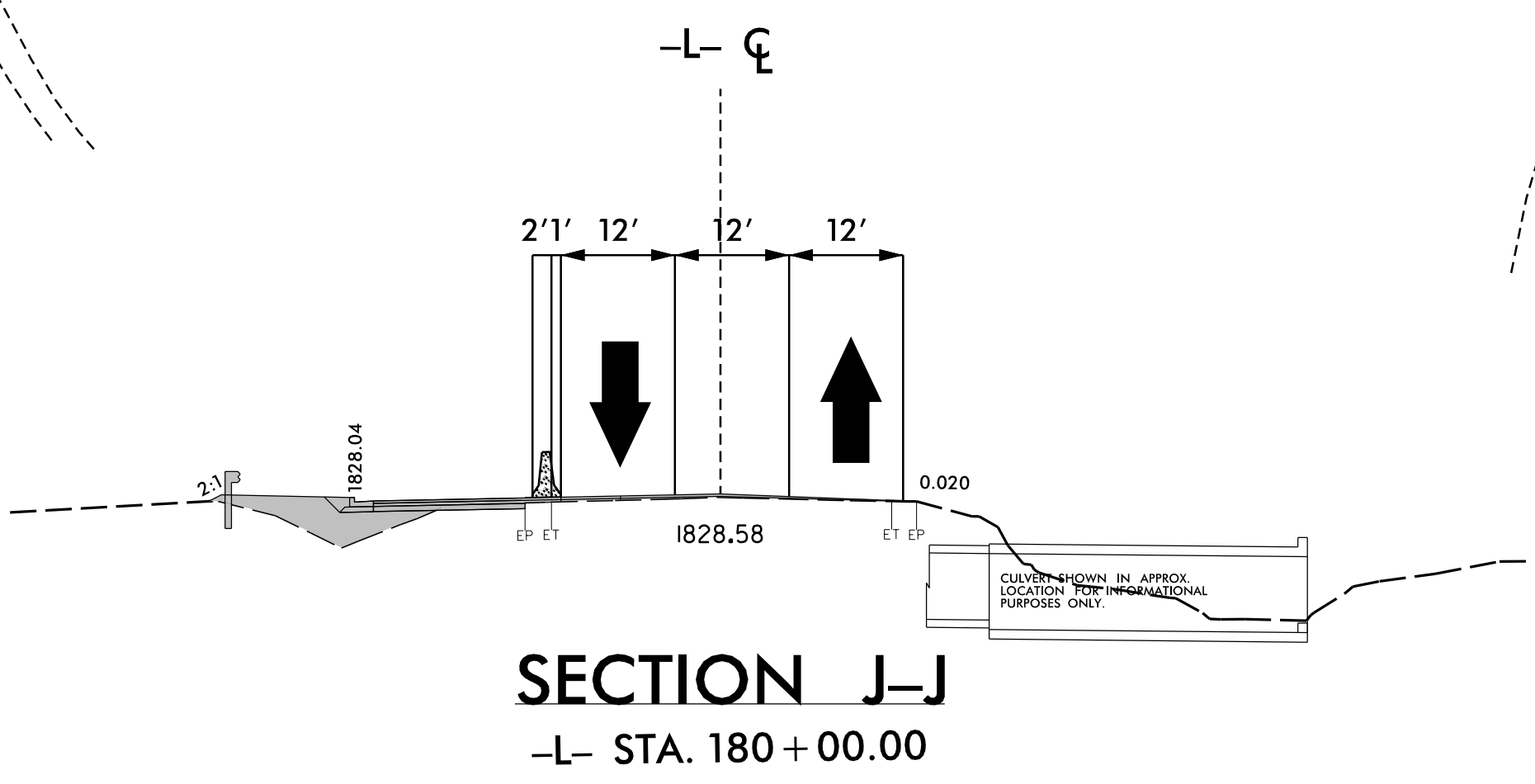
NOTE A:
 USE FLAGGERS TO INSTALL TRAFFIC BEARING PRECAST DRAINAGE STR. 1712, AND 1713 SHORT OF THE FINAL GRADE. FIELD VERIFY TOP OF STRUCTURE ELEVATIONS PRIOR TO MANUFACTURE. BACKFILL/PLATE AND PAVE OVER AS DIRECTED BY THE ENGINEER.



TEMPORARY SHORING FROM -L- STA. 179+00± TO -L- 179+85±. ESTIMATED QUANTITY FOR TEMPORARY SHORING IS 595 SF. SEE TMP-3C FOR TEMPORARY SHORING NOTES.

MATCH LINE -L- STA. 178+50
SEE SHEET TMP-17

MATCH LINE -L- STA. 190+00
SEE SHEET TMP-19

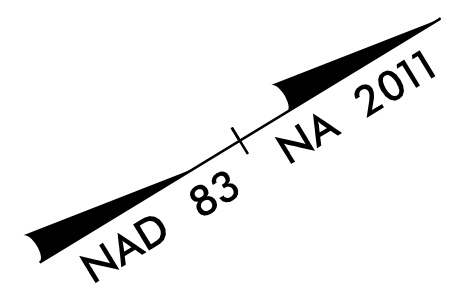


SECTION J-J
 -L- STA. 180+00.00

APPROVED: _____ DATE: 9/4/2019 SEAL Nicholas E. Burns ENGINEER 77848AE4000AEB			<p style="text-align: center;">TEMPORARY TRAFFIC CONTROL PHASE I</p>
<p>DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED</p>			

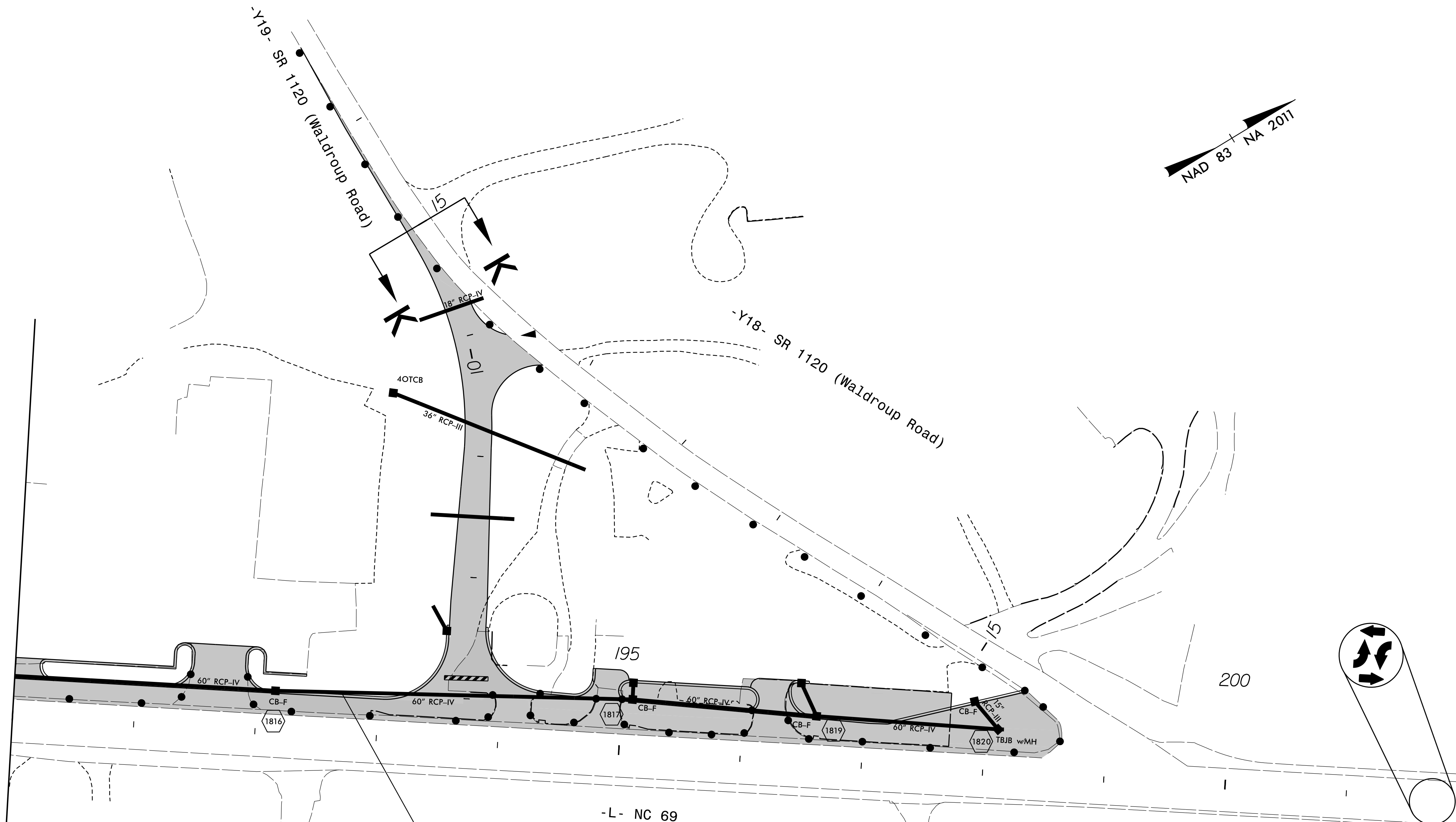
PROJ. REFERENCE NO.	SHEET NO.
A-0011C	TMP-19A

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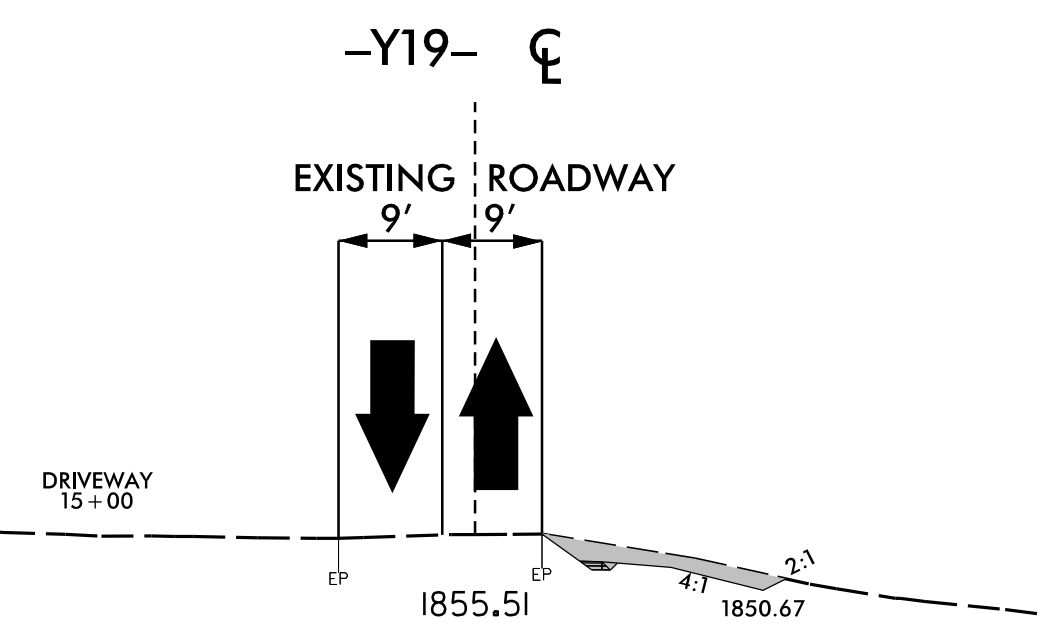


MATCH LINE -L- STA. 190+00
SEE SHEET TMP-18

MATCH LINE -L- STA. 202+00
SEE SHEET TMP-20



FOR INSTALLATION OF 60" RCP-III AND RCP-IV FROM STRUCTURE 1728 TO STRUCTURE 1820, WORK MUST NOT BE PERFORMED FROM 7:00AM TO 5:00PM AND SOUTHBOUND TRAFFIC WILL NEED TO BE SHIFTED INTO THE EXISTING LEFT TURN OPTION LANE. SEE TMP-19B FOR DETAILED OVERVIEW OF DRUMMED OUT LANE.



SECTION K-K
-Y19- STA. 15+00.00

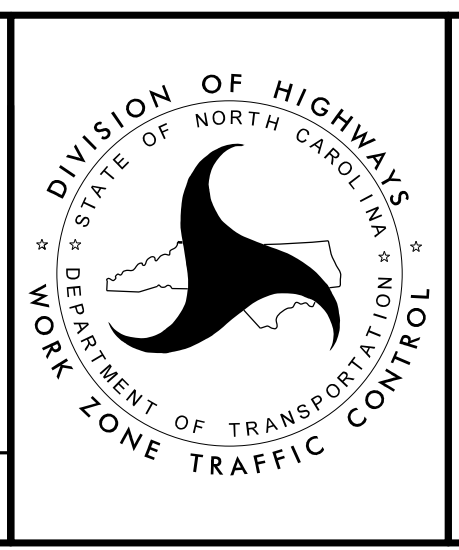
APPROVED: _____
 DATE: 9/4/2019

SEAL

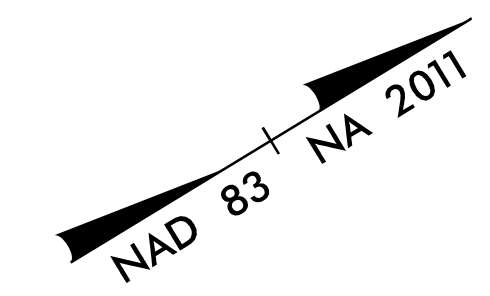
DocuSigned by:
 Nicholas E. Burns
 77648A6A00A4E8

SEAL
 NORTH CAROLINA PROFESSIONAL ENGINEER
 SEAL 046300
 NICHOLAS E. BURNS

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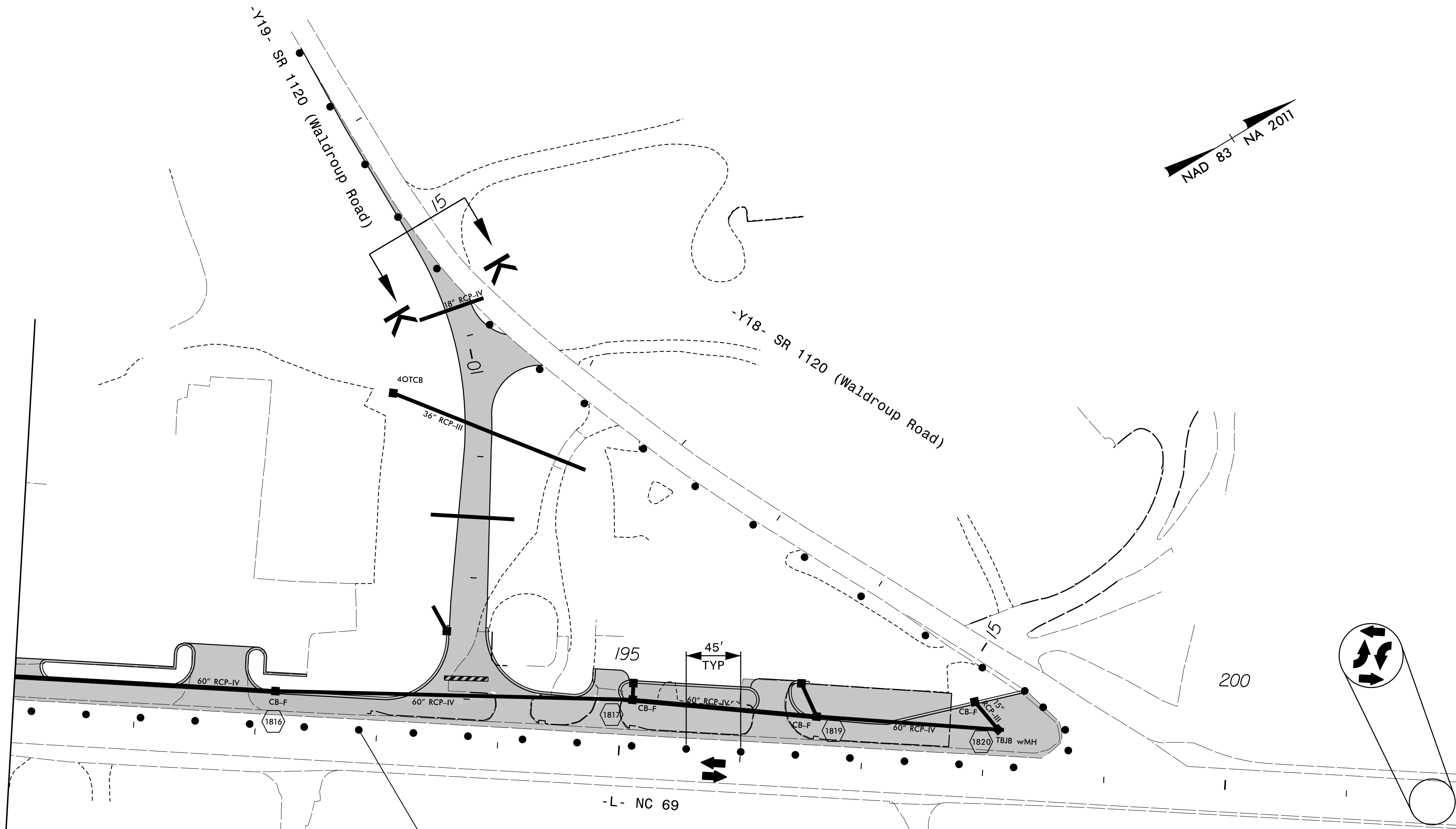


TEMPORARY TRAFFIC CONTROL PHASE I - STEP i

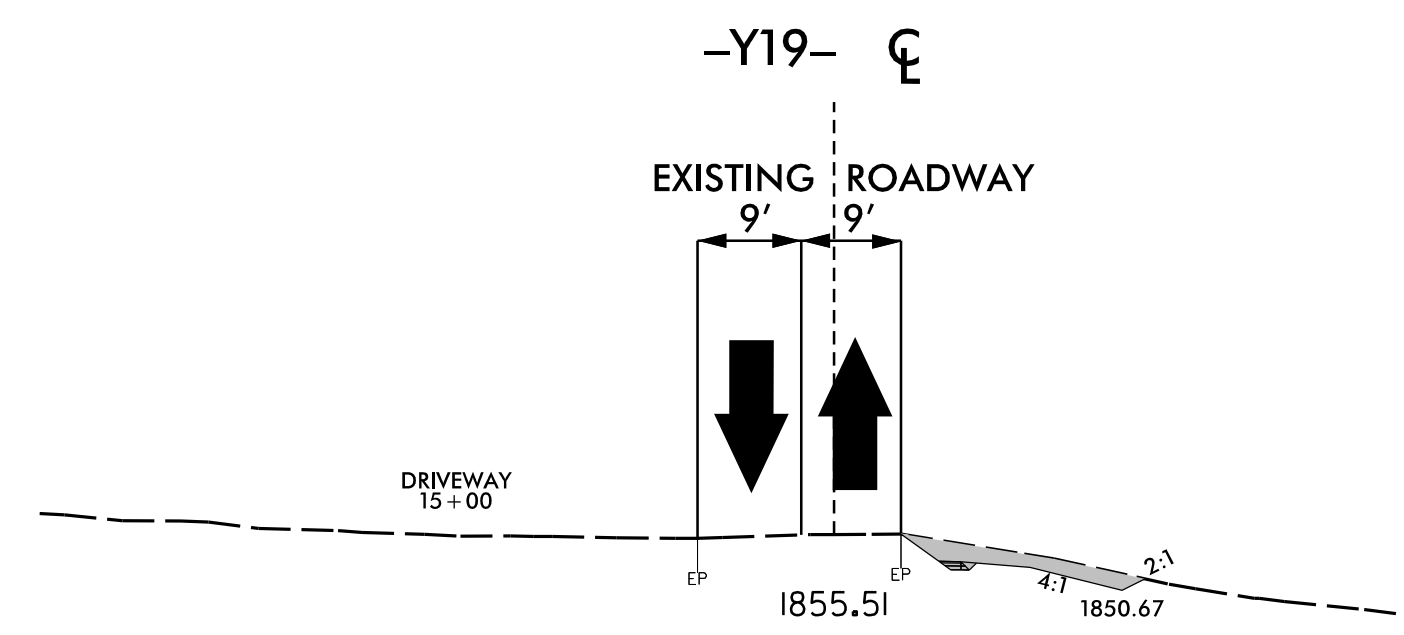


MATCH LINE -L- STA. 190+00
SEE SHEET TMP-18

MATCH LINE -L- STA. 202+00
SEE SHEET TMP-20



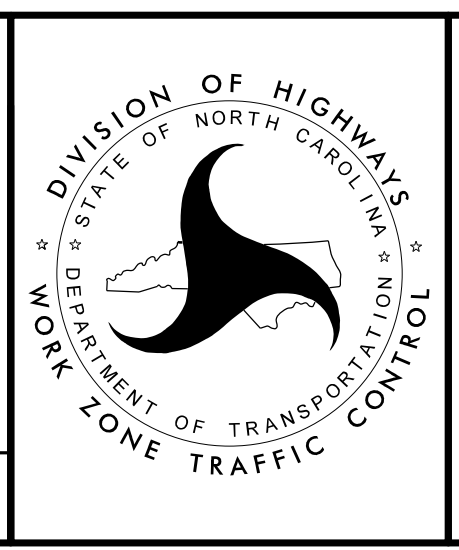
IN ORDER TO KEEP THE NECESSARY BUFFER FROM CONSTRUCTION AND ACTIVE TRAFFIC, THE EXISTING SOUTHBOUND LANE WILL BE CLOSED AND SOUTHBOUND TRAFFIC WILL BE SHIFTED ONTO EXISTING LEFT TURN OPTION LANE AS SHOWN ABOVE.



SECTION K-K
-Y19- STA. 15+00.00

APPROVED: _____
DATE: 9/4/2019

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DocuSigned by
Nicholas E. Burns
77B4BAEA40DA1E8...

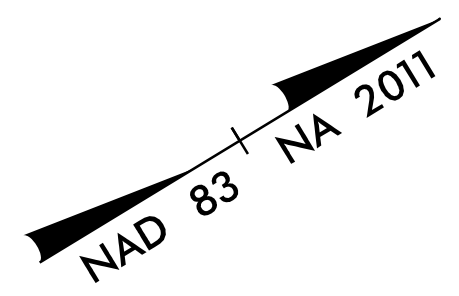


TEMPORARY TRAFFIC CONTROL PHASE I - STEP ii

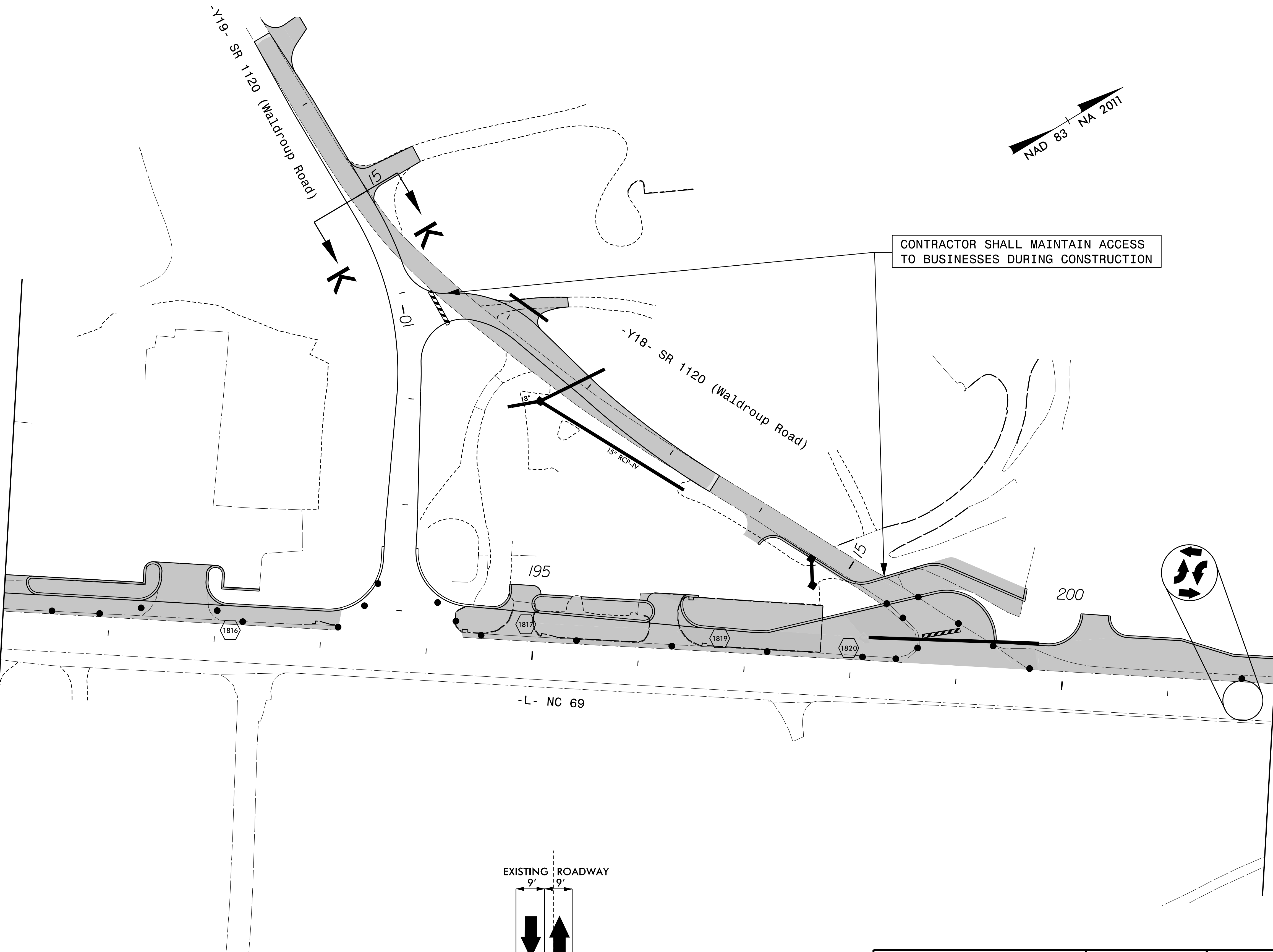
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PROJ. REFERENCE NO.	SHEET NO.
A-0011C	TMP-19C

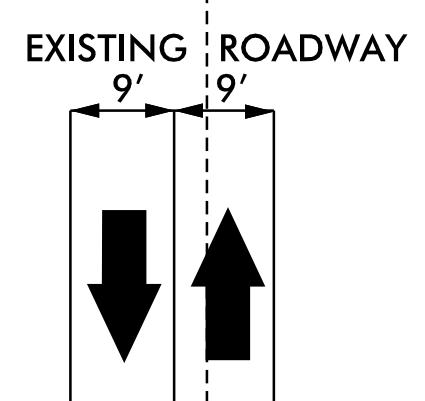
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MATCH LINE -L- STA. 190+00
SEE SHEET TMP-18



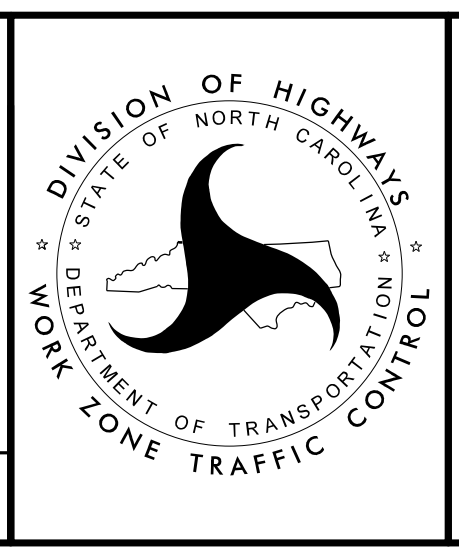
MATCH LINE -L- STA. 202+00
SEE SHEET TMP-20



SECTION K-K
-Y19- STA. 15+00.00

APPROVED: _____
 DATE: 9/4/2019

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 77848A6A400A6E



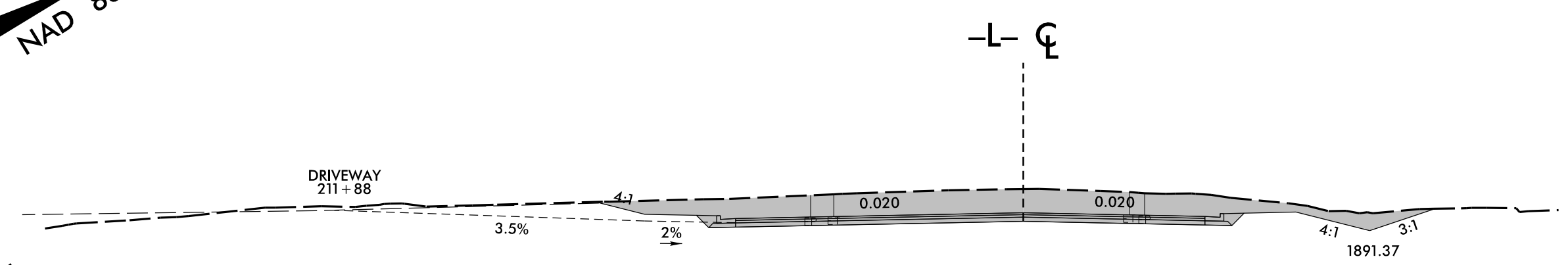
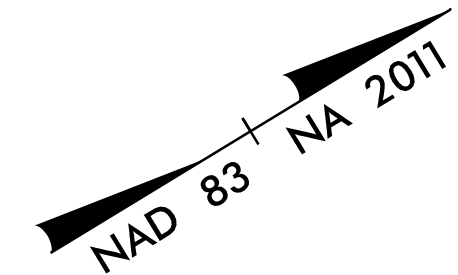
TEMPORARY TRAFFIC CONTROL PHASE I - STEP iii

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PROJ. REFERENCE NO.	SHEET NO.
A-0011C	TMP-20

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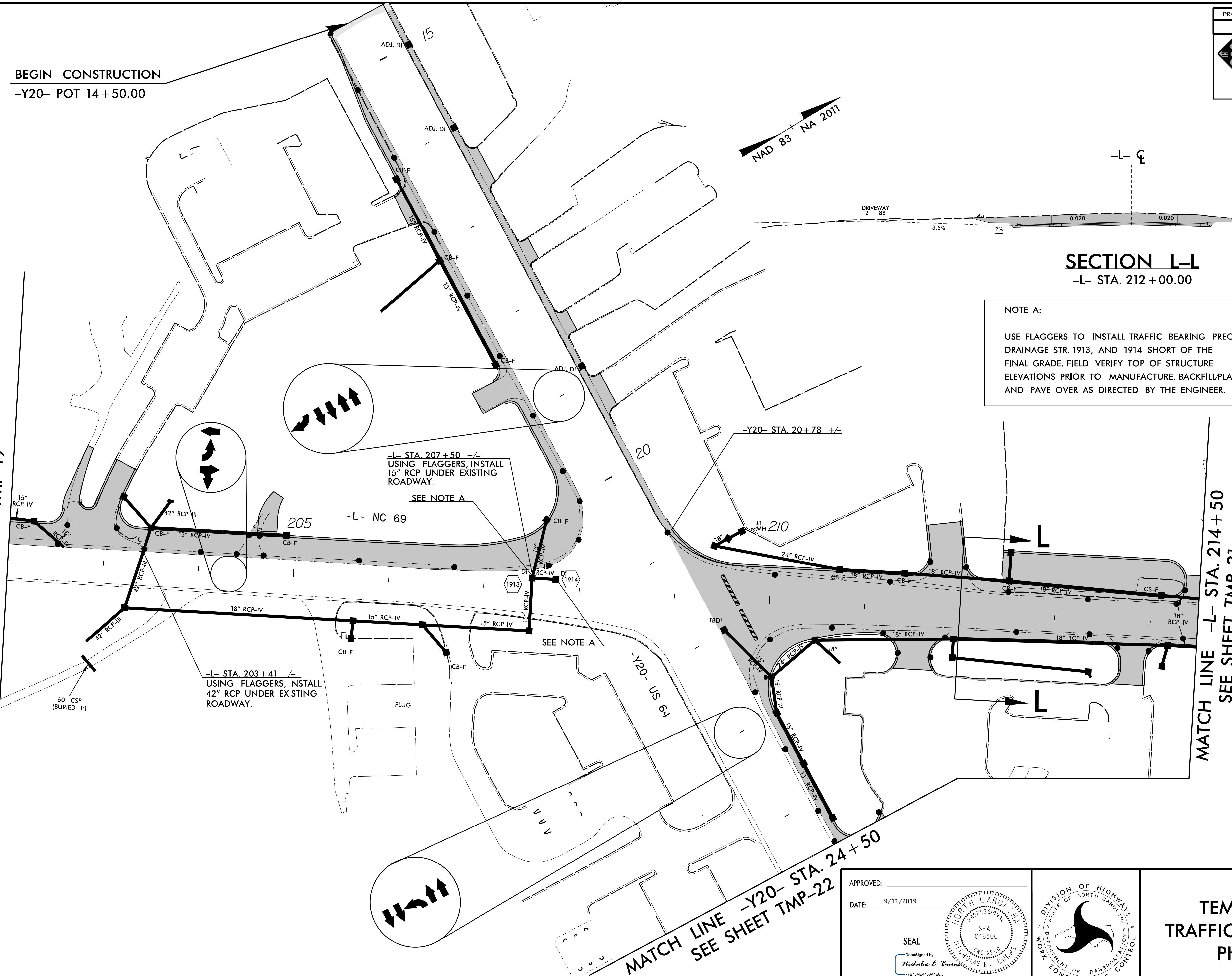
BEGIN CONSTRUCTION
-Y20- POT 14 + 50.00



SECTION L-L
-L- STA. 212 + 00.00

NOTE A:
 USE FLAGGERS TO INSTALL TRAFFIC BEARING PRECAST DRAINAGE STR. 1913, AND 1914 SHORT OF THE FINAL GRADE. FIELD VERIFY TOP OF STRUCTURE ELEVATIONS PRIOR TO MANUFACTURE. BACKFILL/PLATE AND PAVE OVER AS DIRECTED BY THE ENGINEER.

MATCH LINE -L- STA. 202 + 00
SEE SHEET TMP-19



MATCH LINE -L- STA. 214 + 50
SEE SHEET TMP-21

MATCH LINE -Y20- STA. 24 + 50
SEE SHEET TMP-22

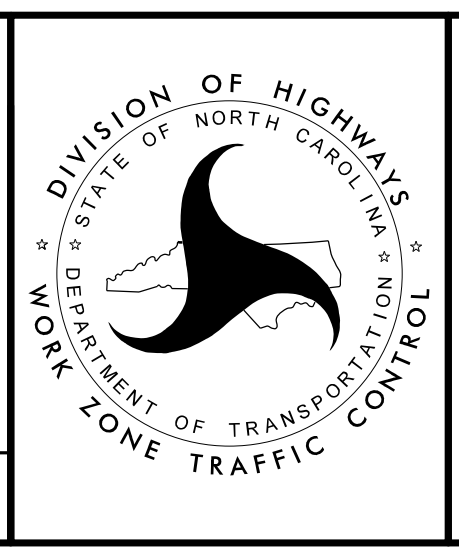
APPROVED: _____
 DATE: 9/11/2019

SEAL

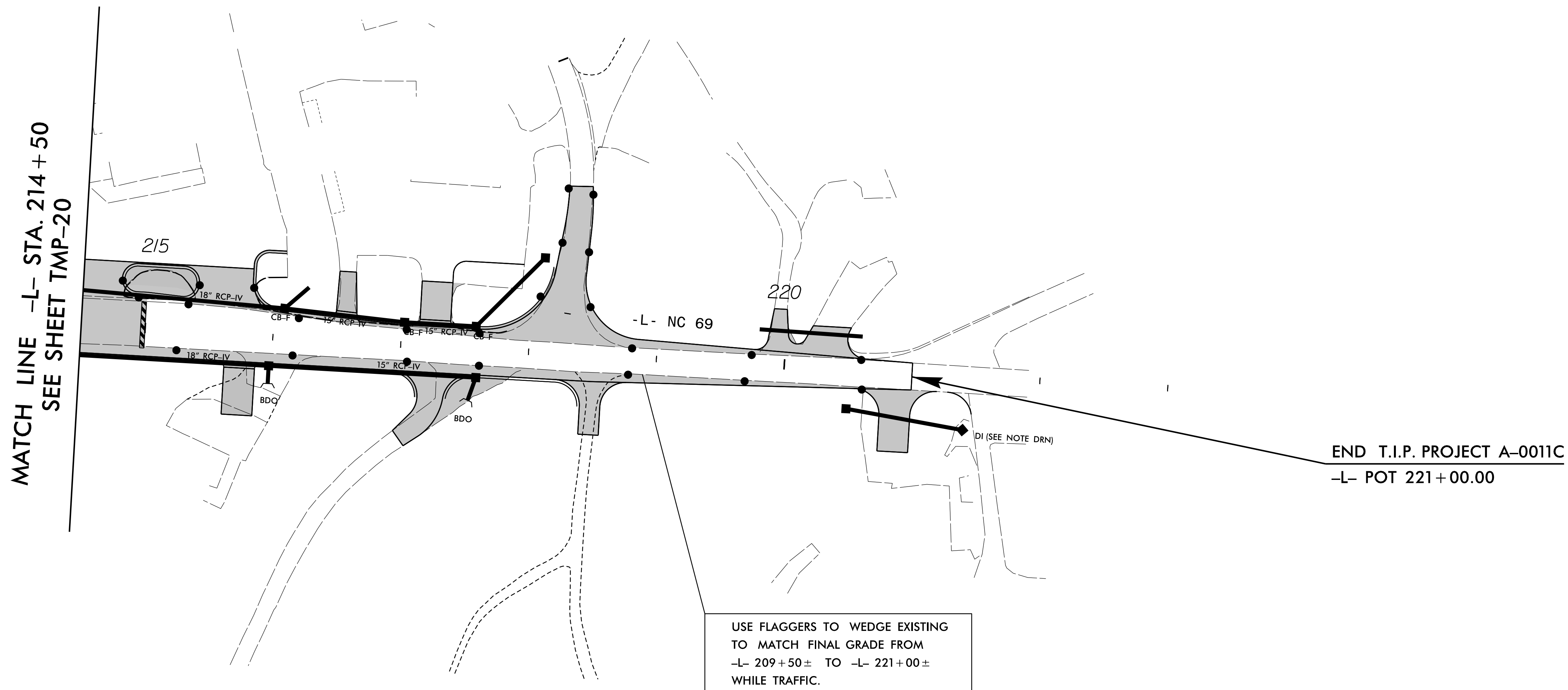
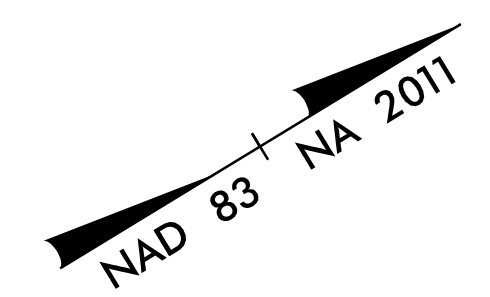
DocuSigned by:
 Nicholas E. Burns
 77848AE400AEB

NICHOLAS E. BURNS
 ENGINEER
 SEAL 046300
 NORTH CAROLINA PROFESSIONAL SEAL

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TEMPORARY TRAFFIC CONTROL PHASE I



MATCH LINE -L- STA. 214 + 50
 SEE SHEET TMP-20

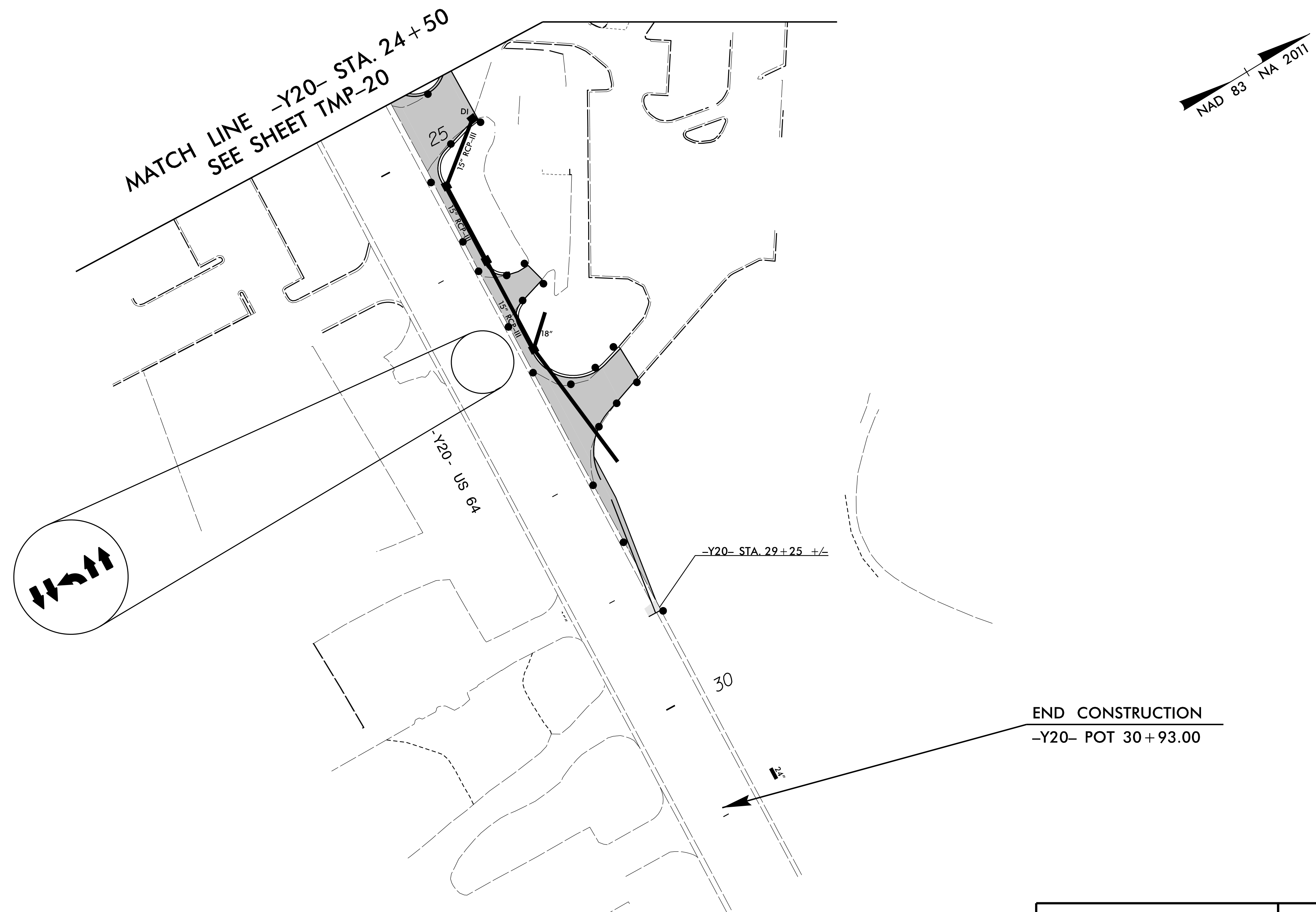
END T.I.P. PROJECT A-0011C
 -L- POT 221+00.00

USE FLAGGERS TO WEDGE EXISTING
 TO MATCH FINAL GRADE FROM
 -L- 209+50± TO -L- 221+00±
 WHILE TRAFFIC.

APPROVED: _____ DATE: 9/4/2019 SEAL DocuSigned by: <i>Nicholas E. Burns</i> 77B48AE4A004E8			<p style="text-align: center;">TEMPORARY TRAFFIC CONTROL PHASE I</p>
<p style="text-align: center;">DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED</p>			

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A-0011C	TMP-22

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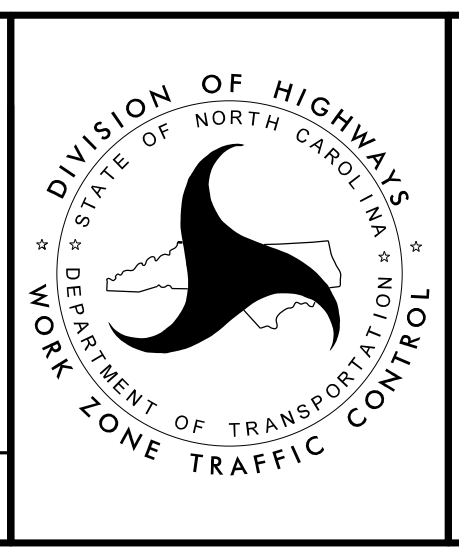
END CONSTRUCTION
 -Y20- POT 30+93.00

APPROVED: _____
 DATE: 9/11/2019

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 Nicholas E. Burns

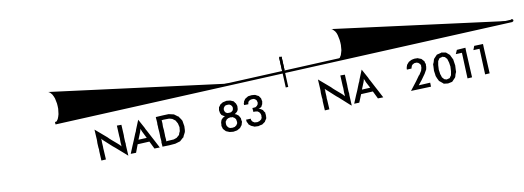
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**TEMPORARY
 TRAFFIC CONTROL
 PHASE I**

PROJ. REFERENCE NO.	SHEET NO.
A-0011C	TMP-23

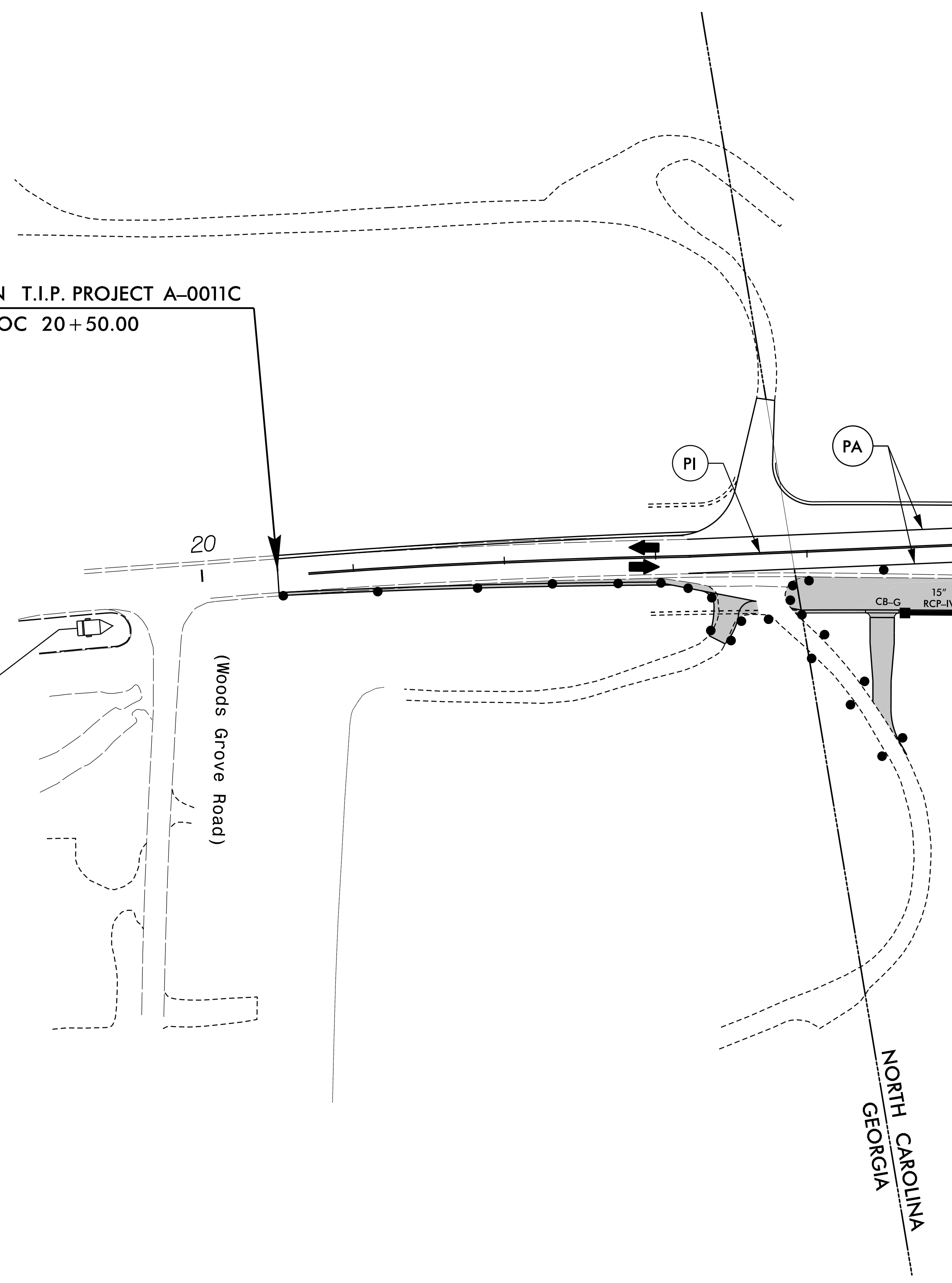
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BEGIN T.I.P. PROJECT A-0011C
 -L- POC 20+50.00

MATCH LINE -L- STA. 25+00
 SEE SHEET TMP-24

MESSAGE NO. 1	MESSAGE NO. 2
NEW TRAFFIC PATTERN	TRAFFIC SHIFT AHEAD
CHANGEABLE MESSAGE SIGN	



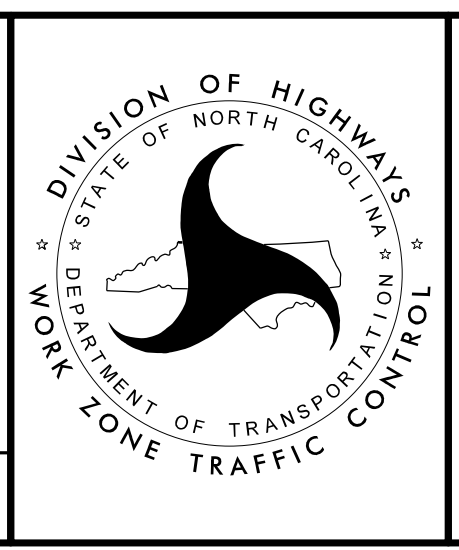
APPROVED: _____
 DATE: 9/4/2019

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Nicholas E. Burns

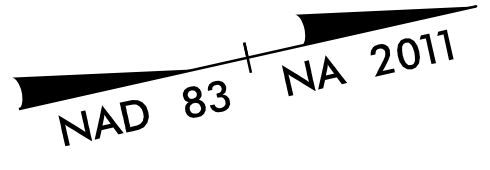
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 NORTH CAROLINA PROFESSIONAL ENGINEER
 SEAL 046300
 NICHOLAS E. BURNS



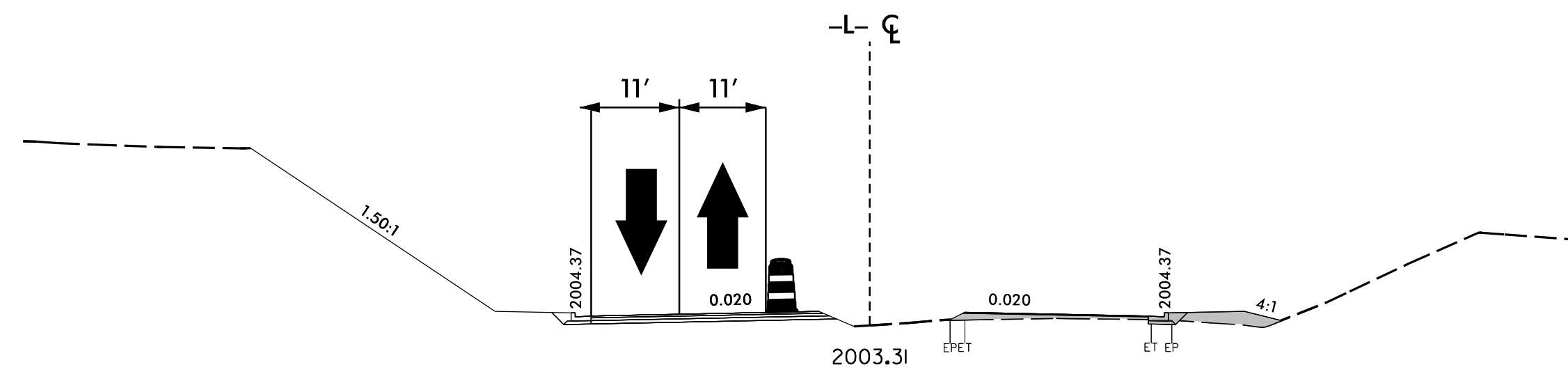
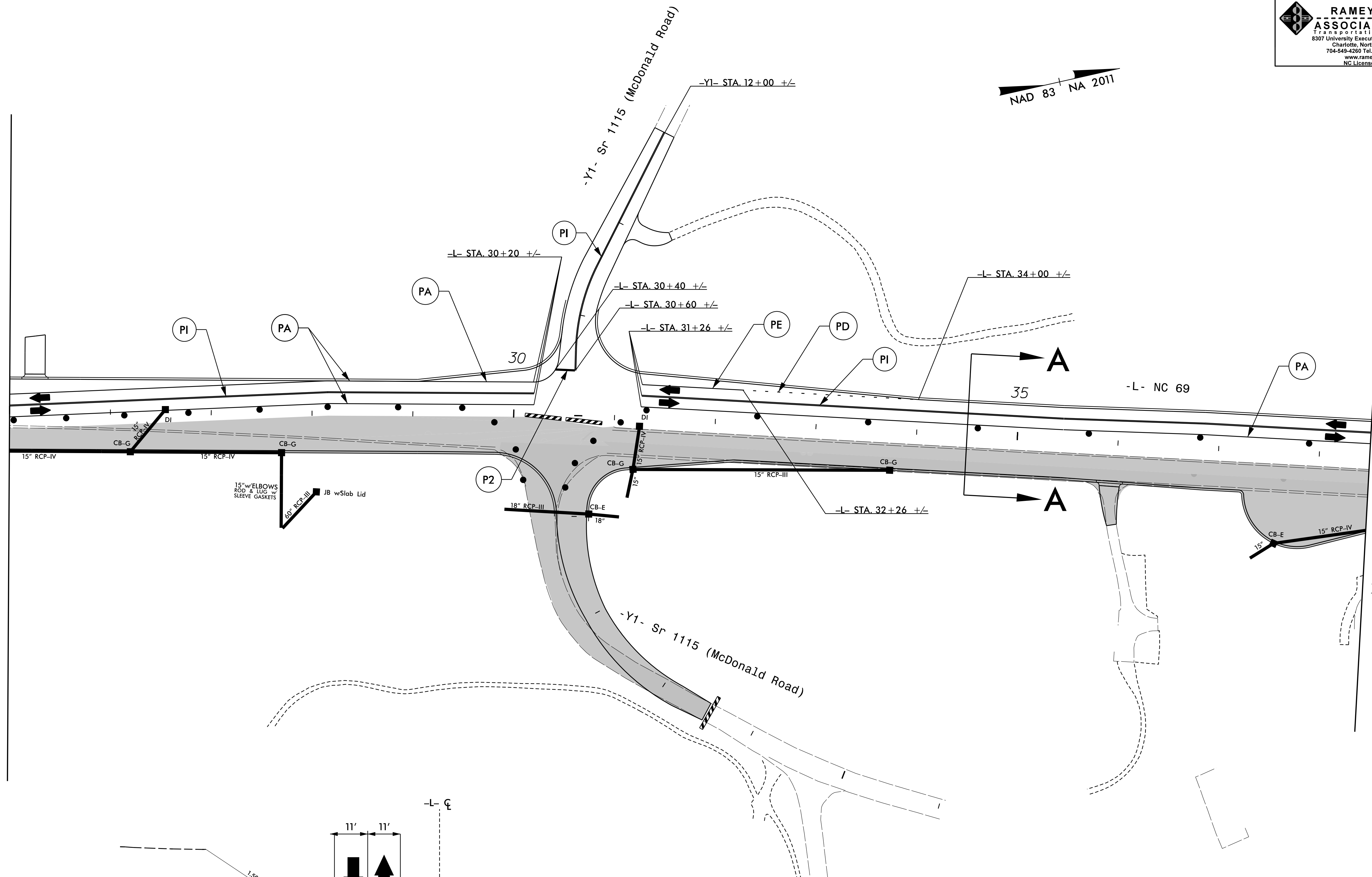
TEMPORARY TRAFFIC CONTROL PHASE II

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MATCH LINE -L- STA. 25+00
 SEE SHEET TMP-23

MATCH LINE -L- STA. 38+50
 SEE SHEET TMP-25

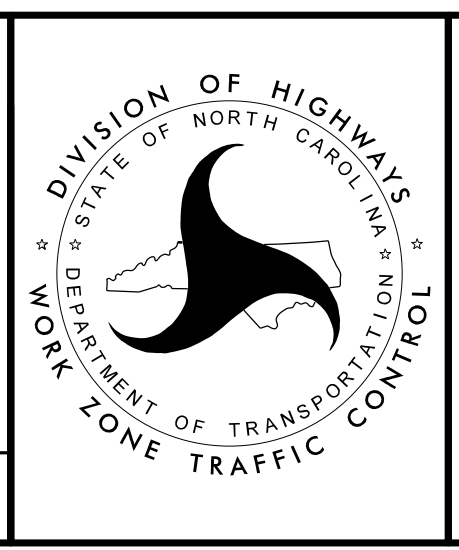


SECTION A-A
 -L- STA. 34+50.00

APPROVED: _____
 DATE: 9/4/2019

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 DocuSigned by:
 Nicholas E. Burns
 7784BAE40004E8

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 NICHOLAS E. BURNS

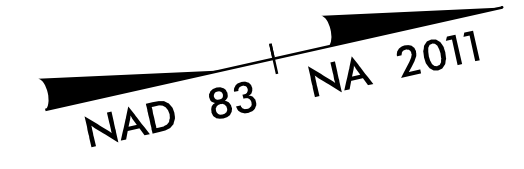


TEMPORARY TRAFFIC CONTROL PHASE II

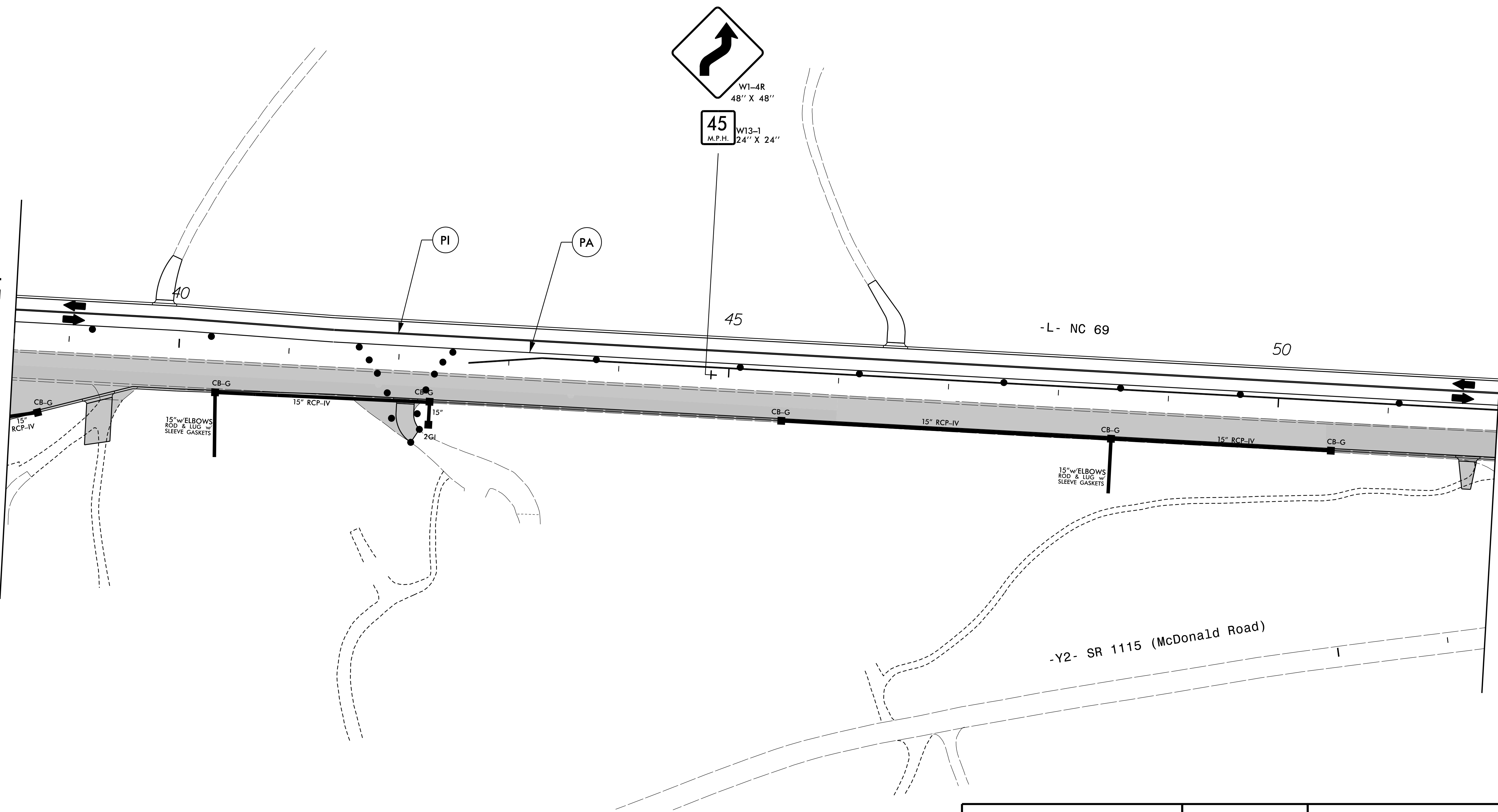
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PROJ. REFERENCE NO.	SHEET NO.
A-0011C	TMP-25

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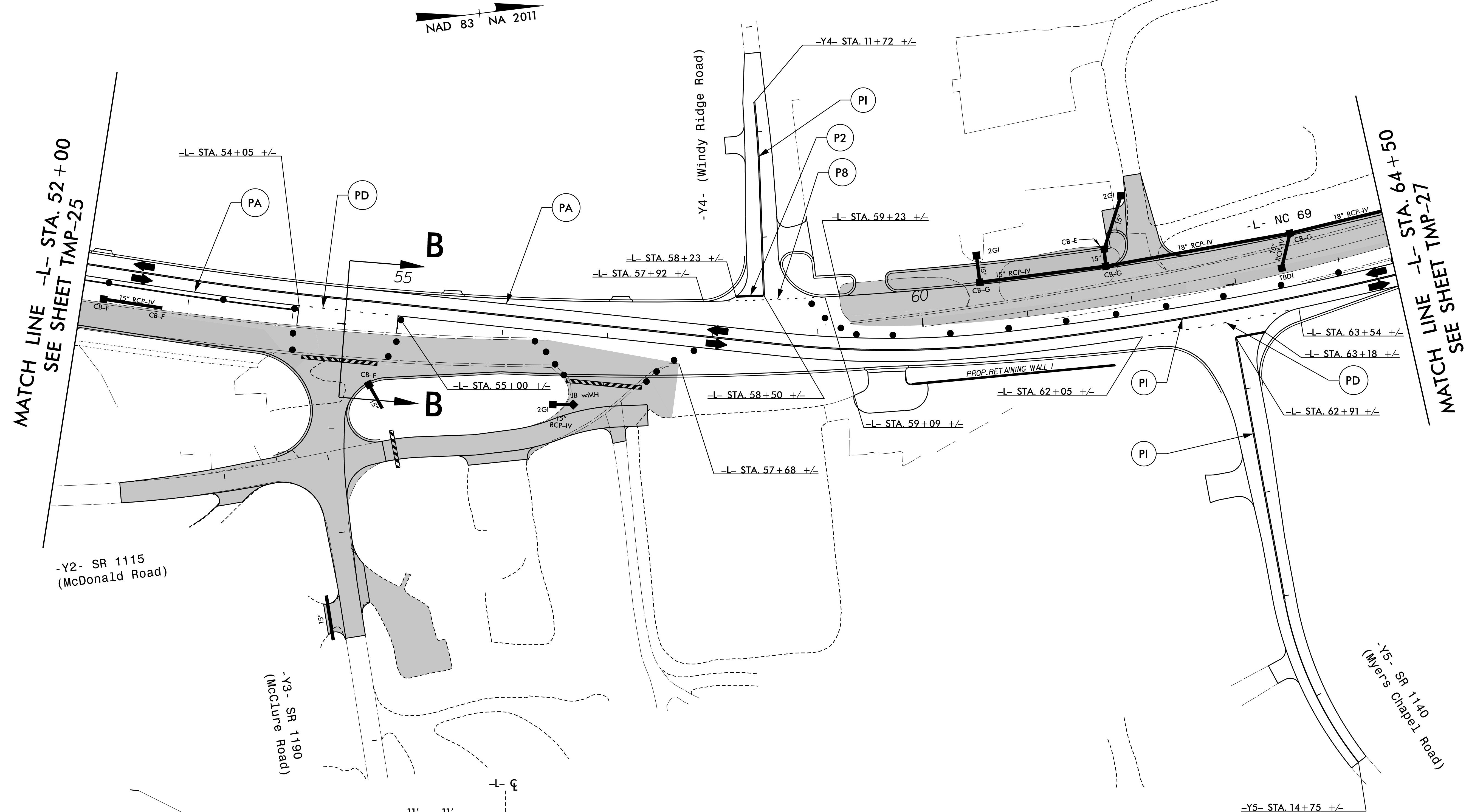


MATCH LINE -L- STA. 38 + 50
SEE SHEET TMP-24



MATCH LINE -L- STA. 52 + 00
SEE SHEET TMP-26

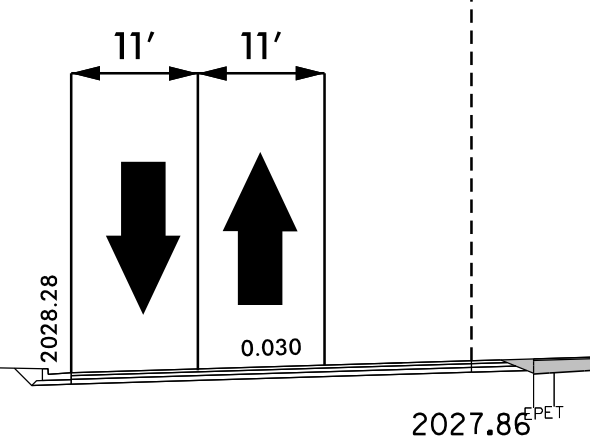
APPROVED: _____			<p>TEMPORARY TRAFFIC CONTROL PHASE II</p>
DATE: 9/4/2019			
<p>DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED</p>			



MATCH LINE -L- STA. 52+00
SEE SHEET TMP-25

MATCH LINE -L- STA. 64+50
SEE SHEET TMP-27

NAD 83 NA 2011



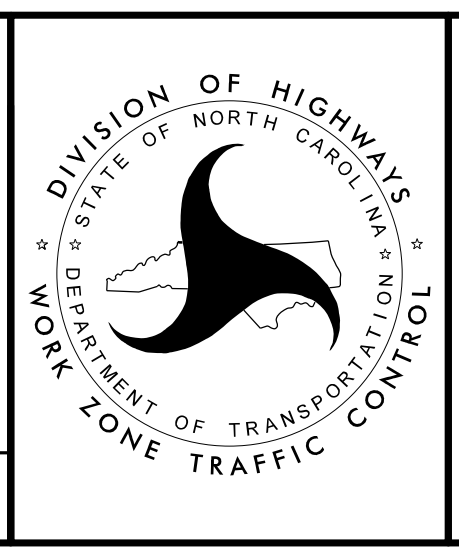
SECTION B-B
-L- STA. 54+50.00

APPROVED: _____
 DATE: 9/4/2019

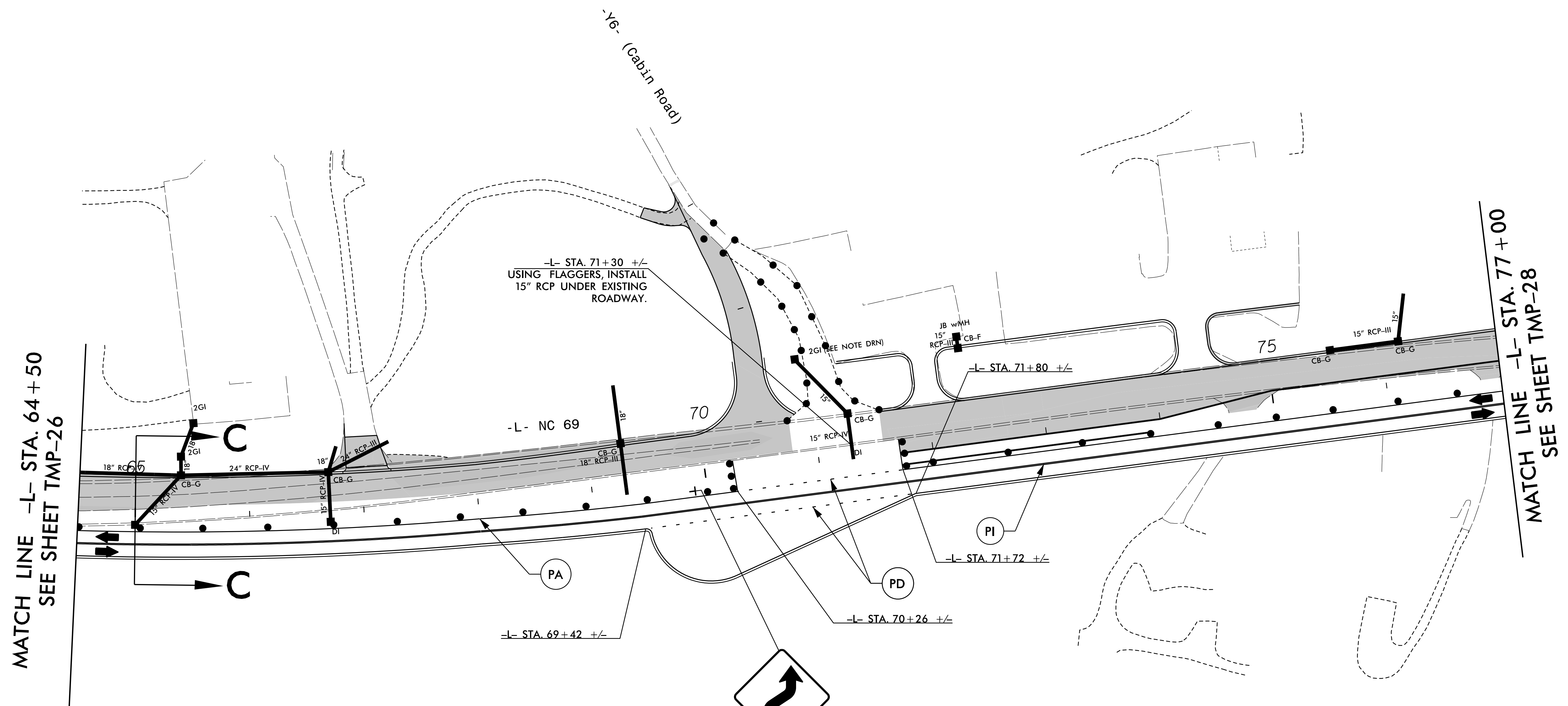
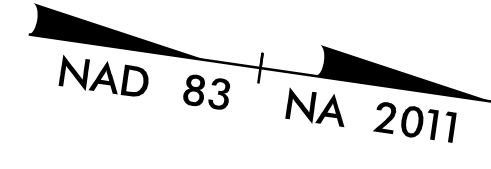
SEAL

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Nicholas E. Burns
 ENGINEER

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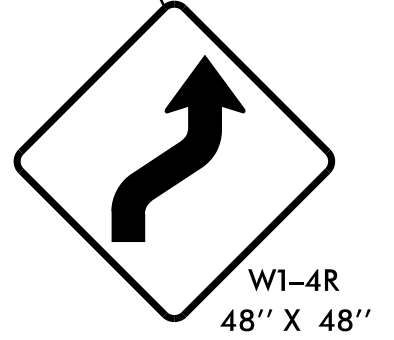
**TEMPORARY
TRAFFIC CONTROL
PHASE II**



MATCH LINE -L- STA. 64+50
SEE SHEET TMP-26

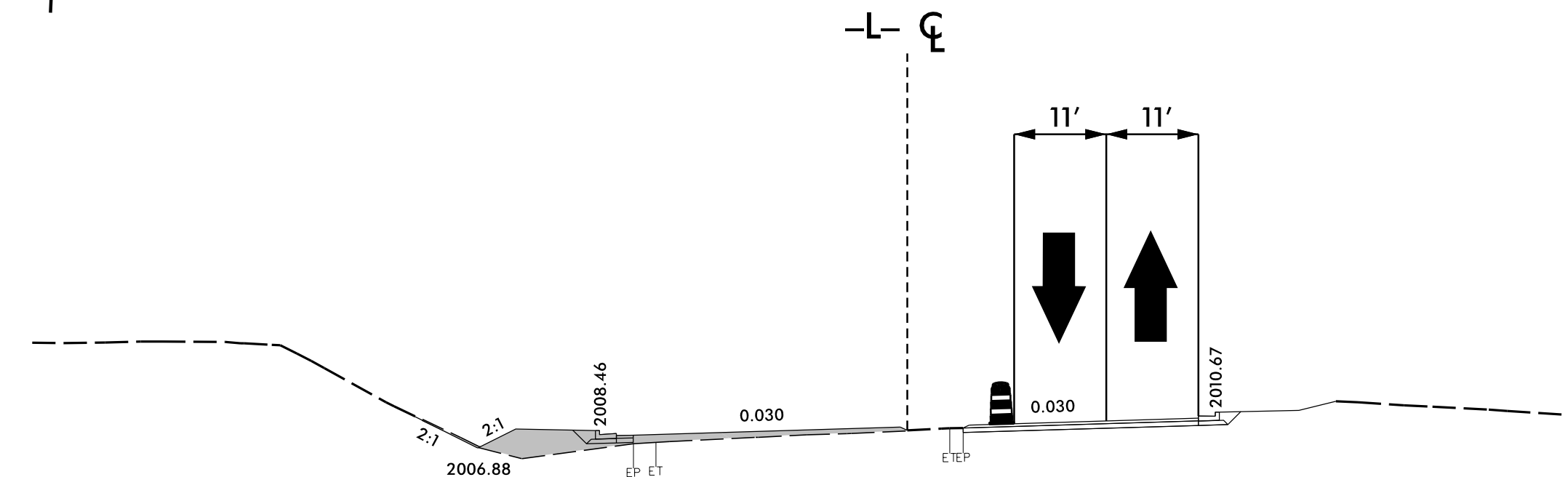
MATCH LINE -L- STA. 77+00
SEE SHEET TMP-28

-L- STA. 71+30 +/-
USING FLAGGERS, INSTALL
15\"/>



W1-4R
48\"/>

45
M.P.H.
W13-1
24\"/>



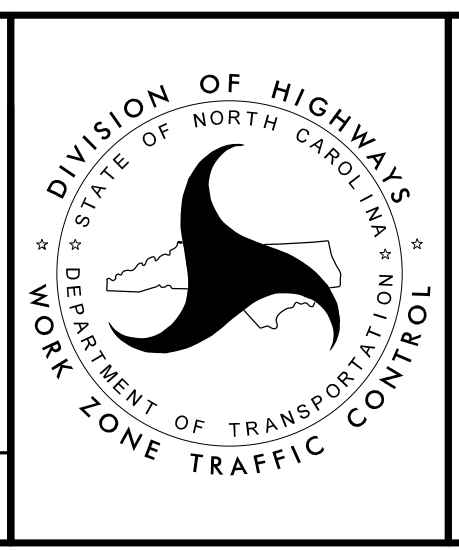
SECTION C-C
-L- STA. 65+00.00

APPROVED: _____
 DATE: 9/4/2019

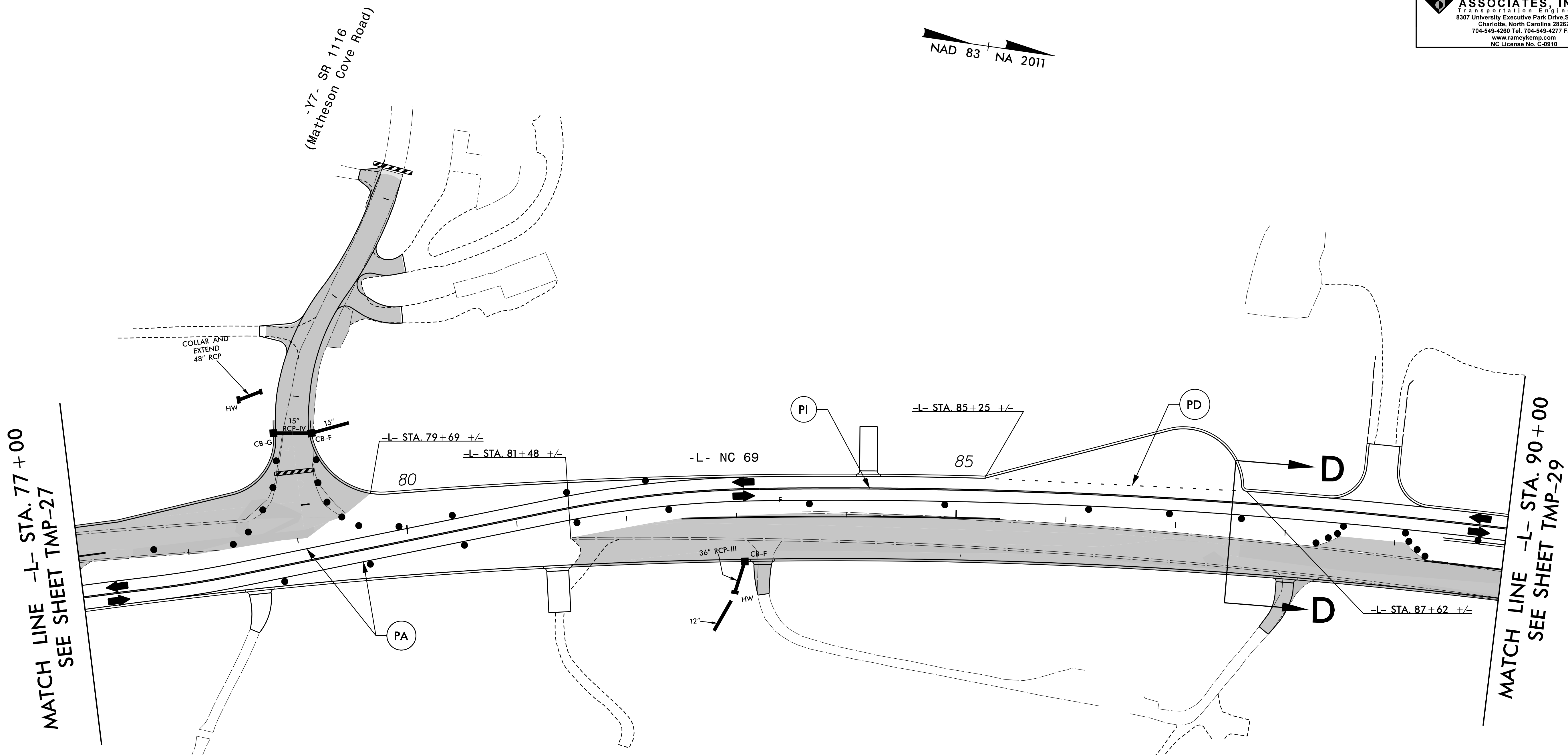
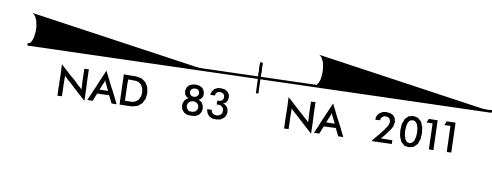
SEAL

DocuSigned by
Nicholas E. Burns
 77B4BAE4004AEB

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UNLESS ALL SIGNATURES COMPLETED**

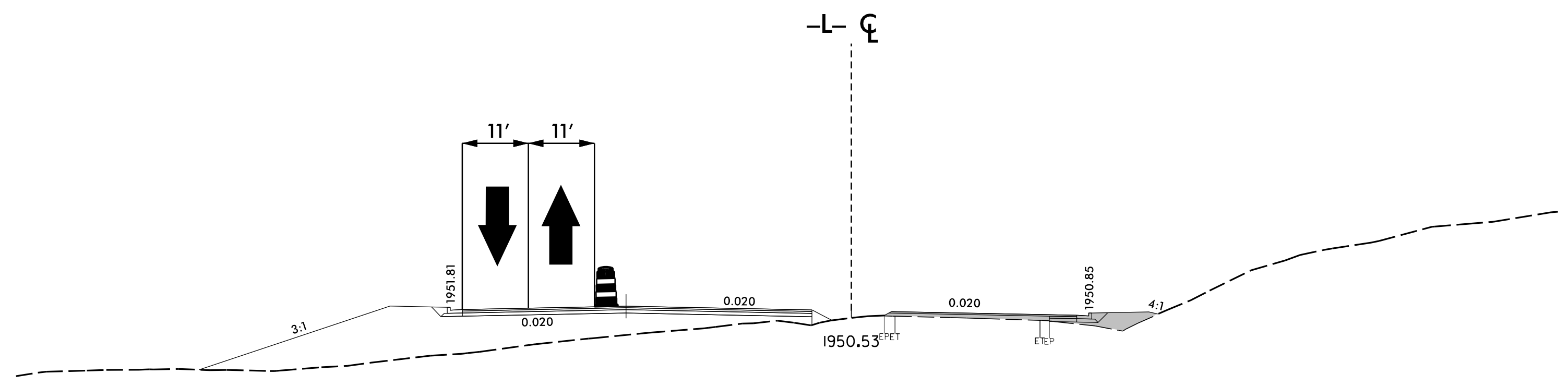


**TEMPORARY
TRAFFIC CONTROL
PHASE II**



MATCH LINE -L- STA. 77+00
SEE SHEET TMP-27

MATCH LINE -L- STA. 90+00
SEE SHEET TMP-29



SECTION D-D
-L- STA. 87+50.00

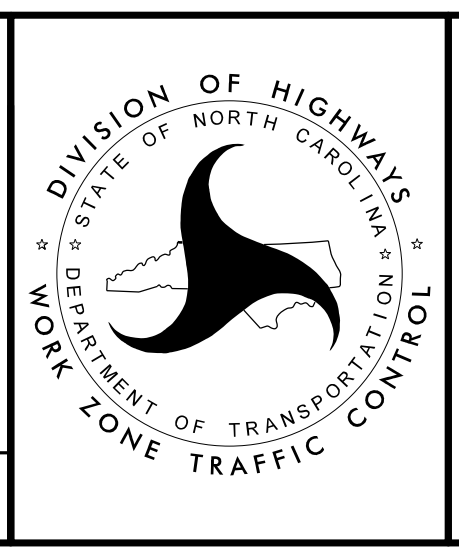
APPROVED: _____
 DATE: 9/4/2019

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 77B48AE4A004E8

SEAL
 NORTH CAROLINA PROFESSIONAL ENGINEER
 SEAL 046300
 NICHOLAS E. BURNS

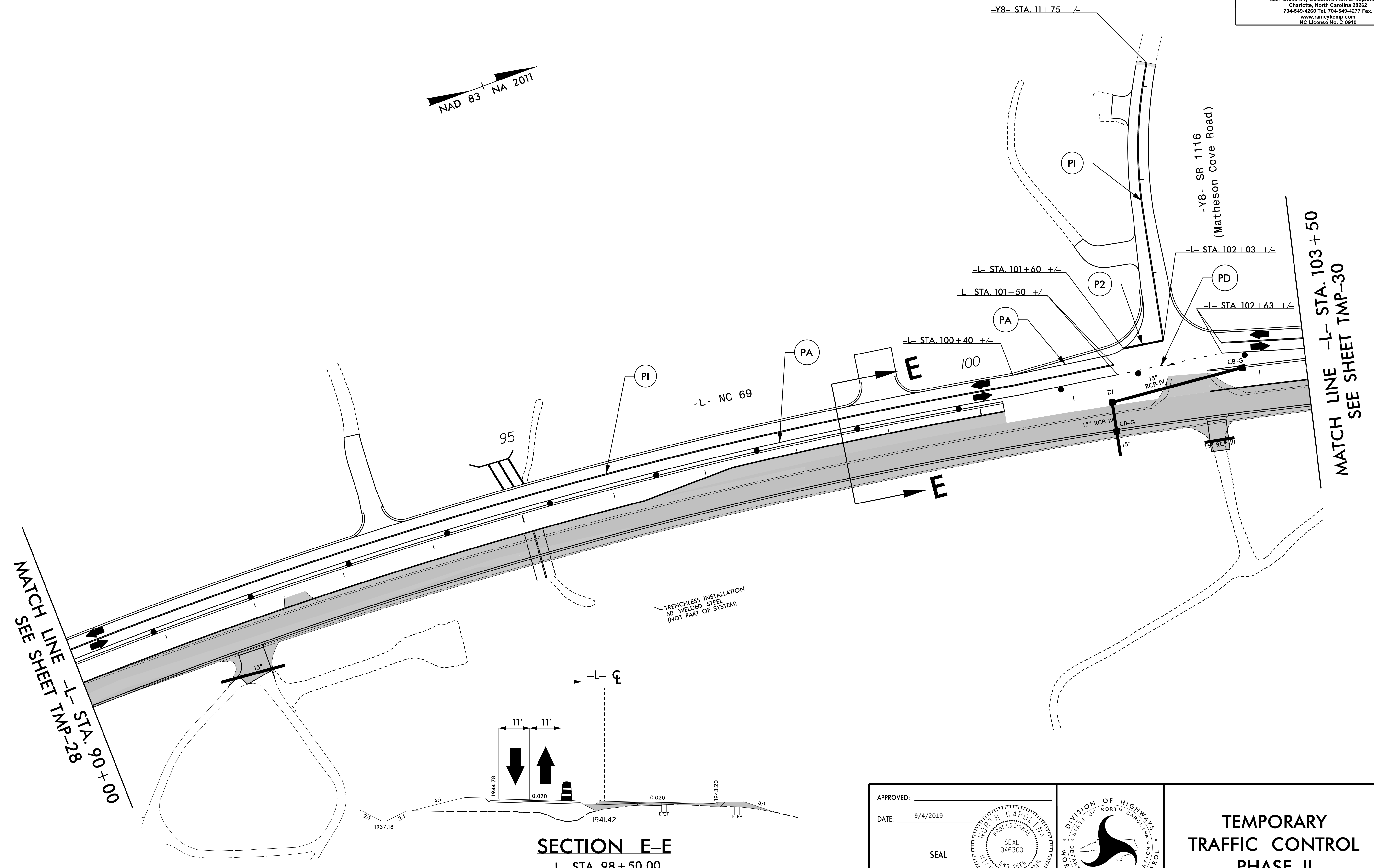
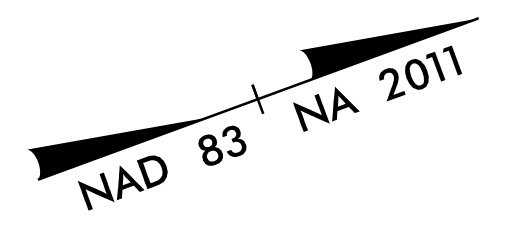
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**TEMPORARY
 TRAFFIC CONTROL
 PHASE II**

PROJ. REFERENCE NO. A-0011C	SHEET NO. TMP-29
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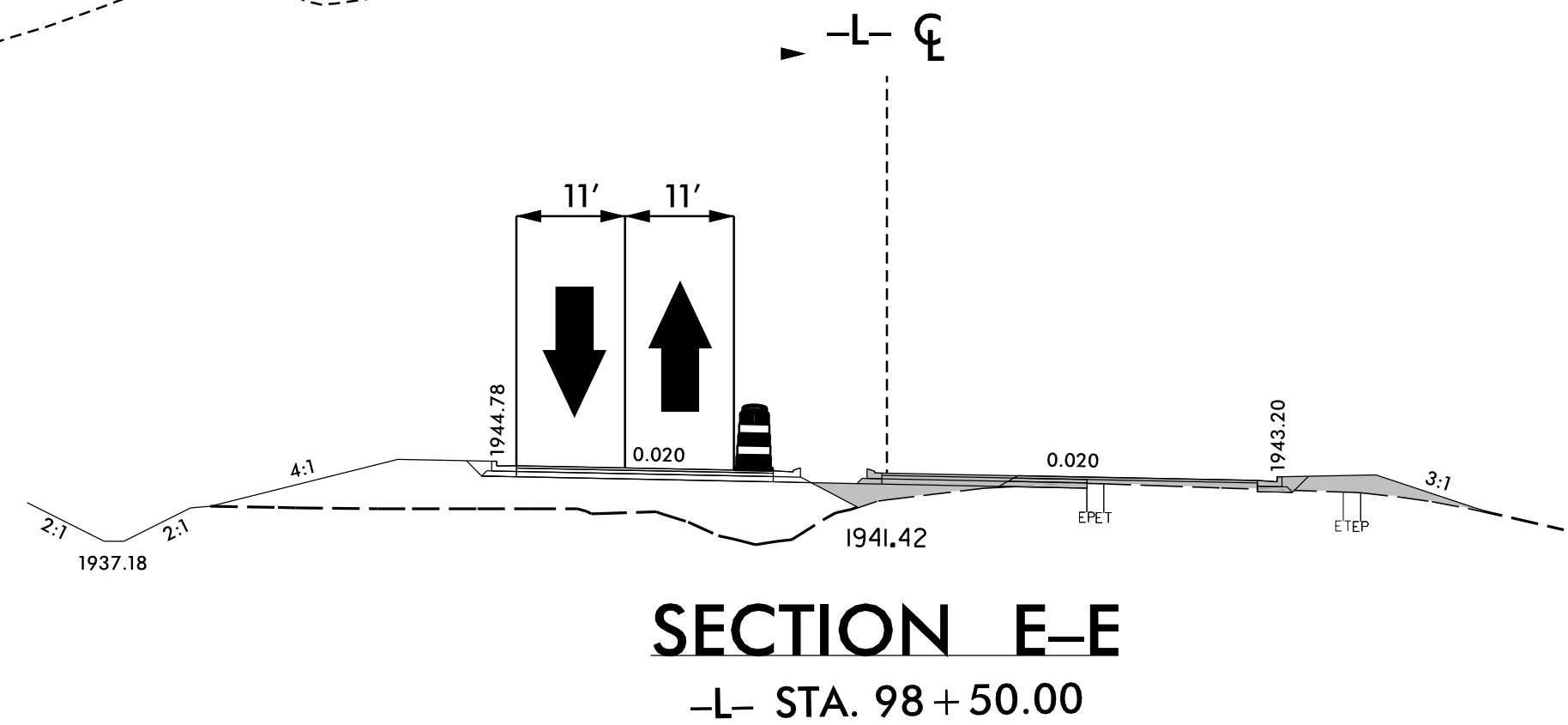
RAMEY KEMP ASSOCIATES, INC.
 Transportation Engineers
 8307 University Executive Park Drive, Suite 260
 Charlotte, North Carolina 28262
 704-549-4260 Tel. 704-549-4277 Fax.
 www.rameykemp.com
 NC License No. C-9910



MATCH LINE -L- STA. 90+00
SEE SHEET TMP-28

MATCH LINE -L- STA. 103+50
SEE SHEET TMP-30

TRENCHLESS INSTALLATION
60' WELDED STEEL
(NOT PART OF SYSTEM)



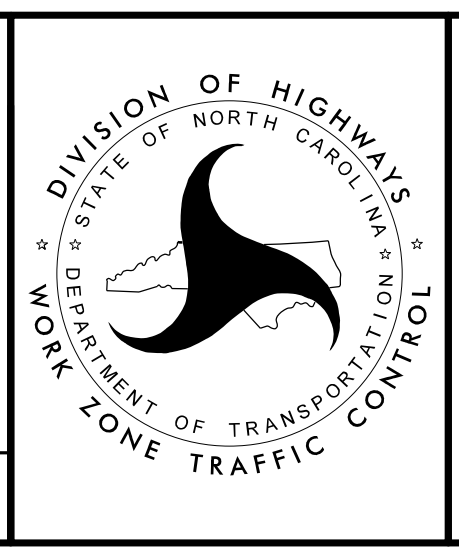
APPROVED: _____
 DATE: 9/4/2019

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 SEAL 046300
 NICHOLAS E. BURNS

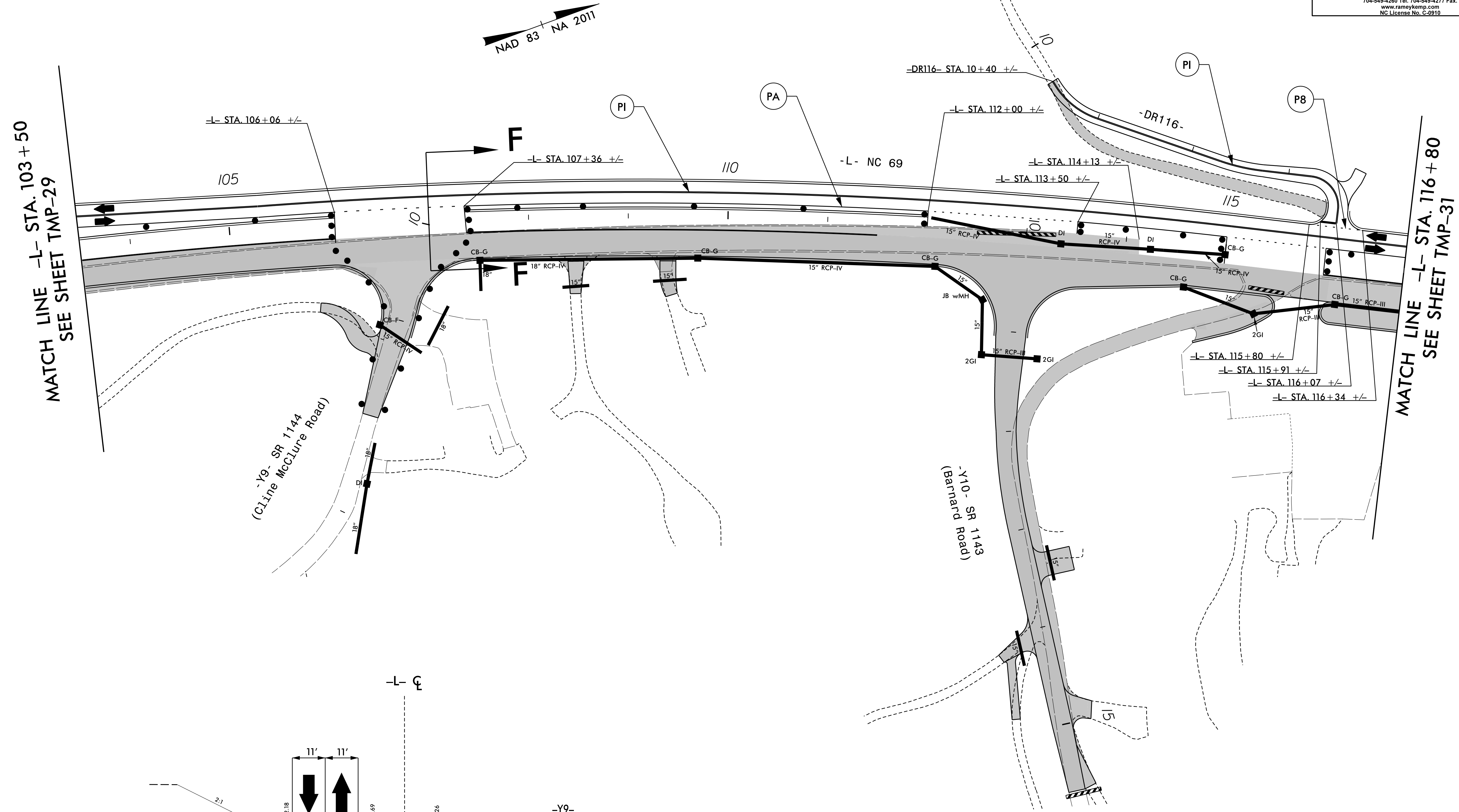
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**TEMPORARY
 TRAFFIC CONTROL
 PHASE II**

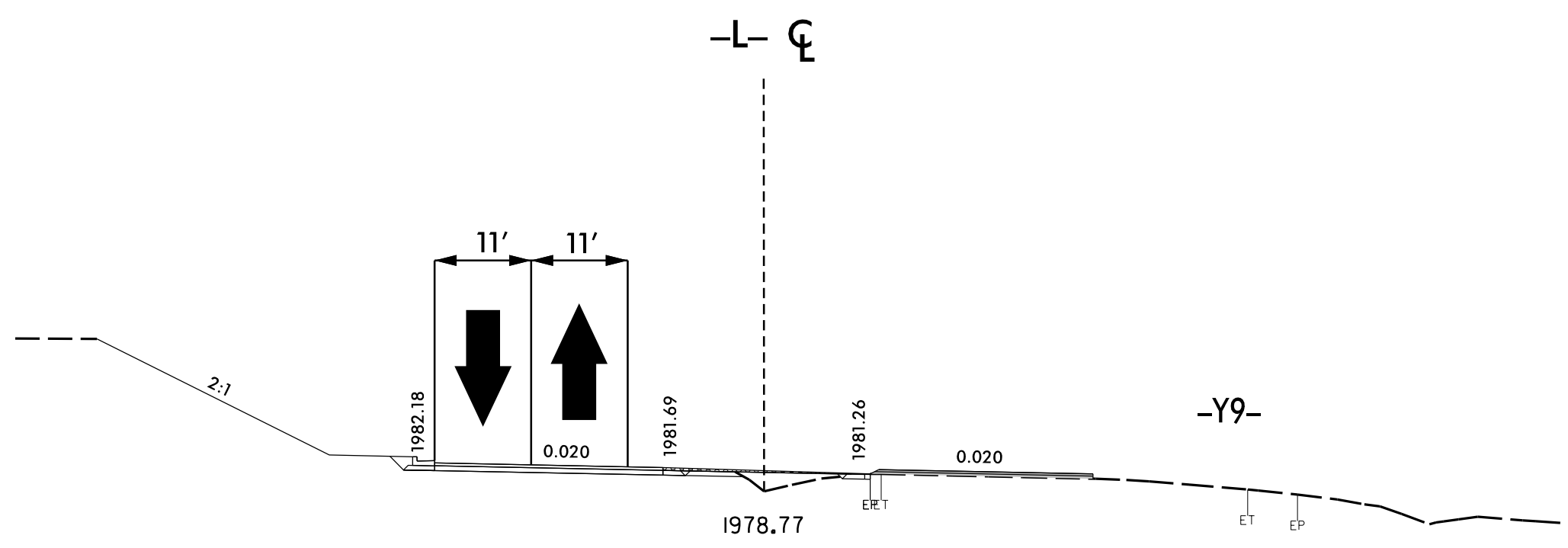
PROJ. REFERENCE NO.	SHEET NO.
A-0011C	TMP-30

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MATCH LINE -L- STA. 103 + 50
 SEE SHEET TMP-29

MATCH LINE -L- STA. 116 + 80
 SEE SHEET TMP-31

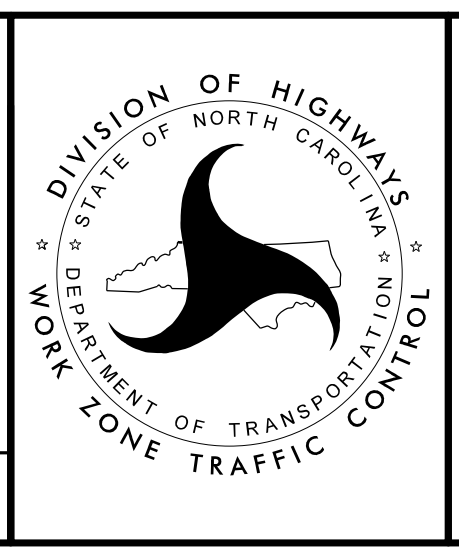


APPROVED: _____
 DATE: 9/4/2019

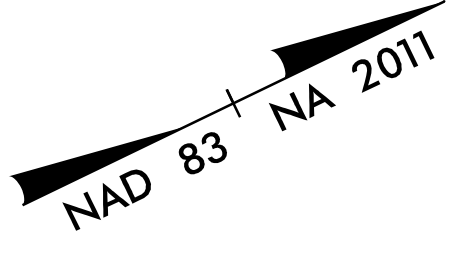
SEAL
 DocuSigned by:
 Nicholas E. Burns
 77848AE42004E8

NORTH CAROLINA PROFESSIONAL ENGINEER SEAL 046300
 NICHOLAS E. BURNS

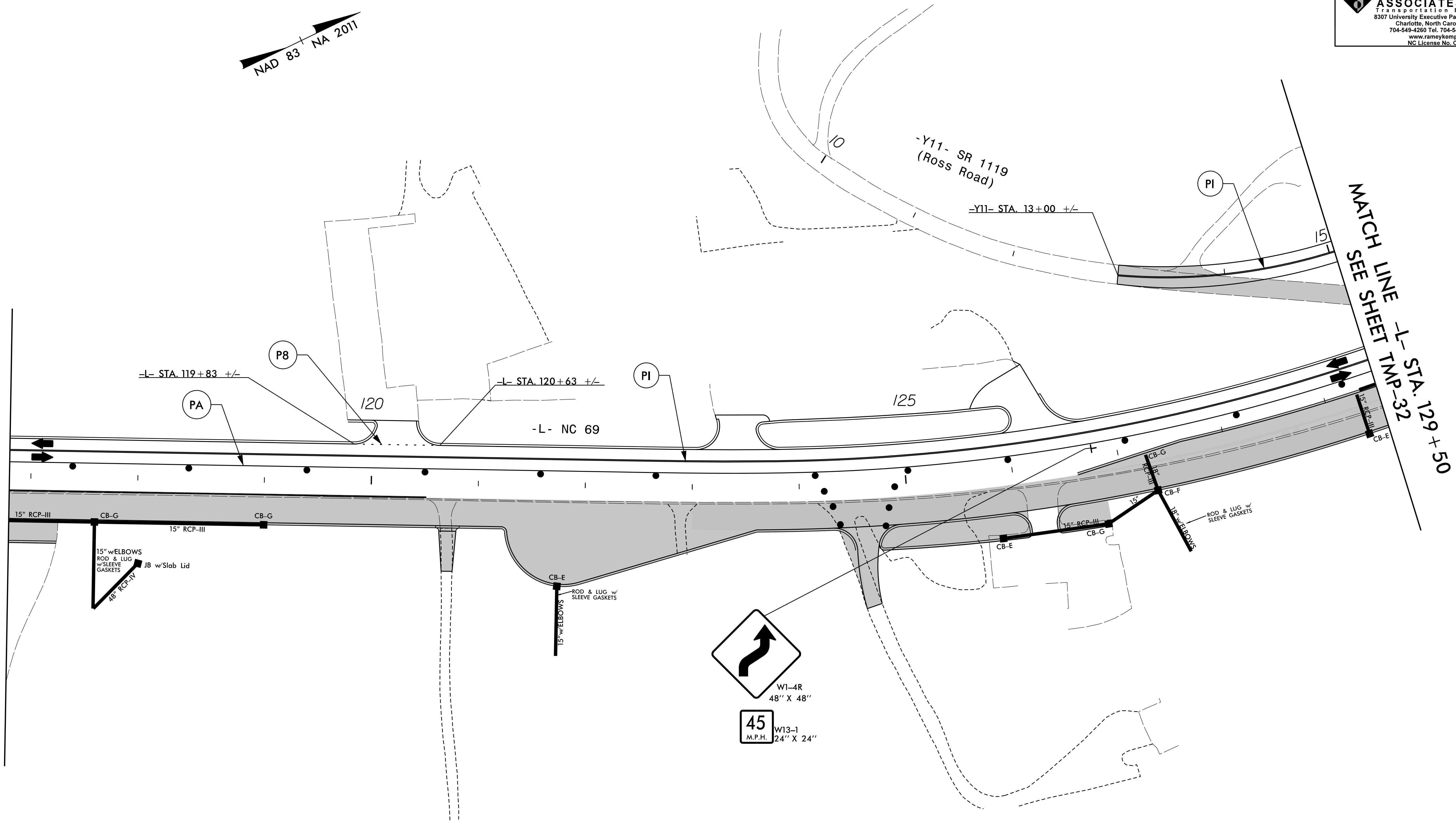
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED



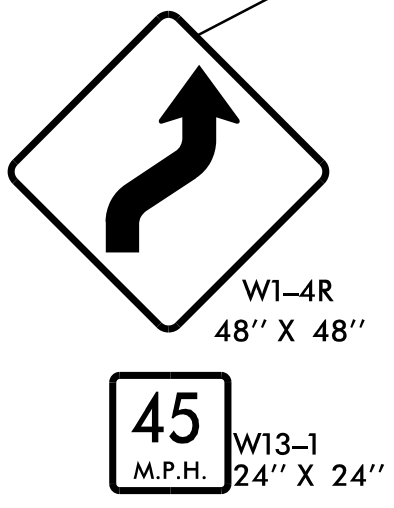
TEMPORARY TRAFFIC CONTROL PHASE II



MATCH LINE -L- STA. 116+80
SEE SHEET TMP-30



MATCH LINE -L- STA. 129+50
SEE SHEET TMP-32

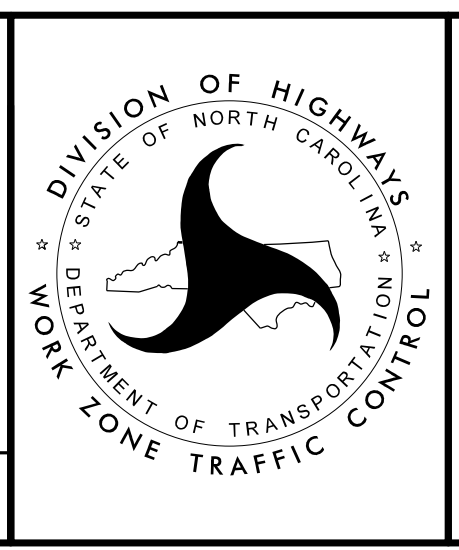


APPROVED: _____
 DATE: 9/4/2019

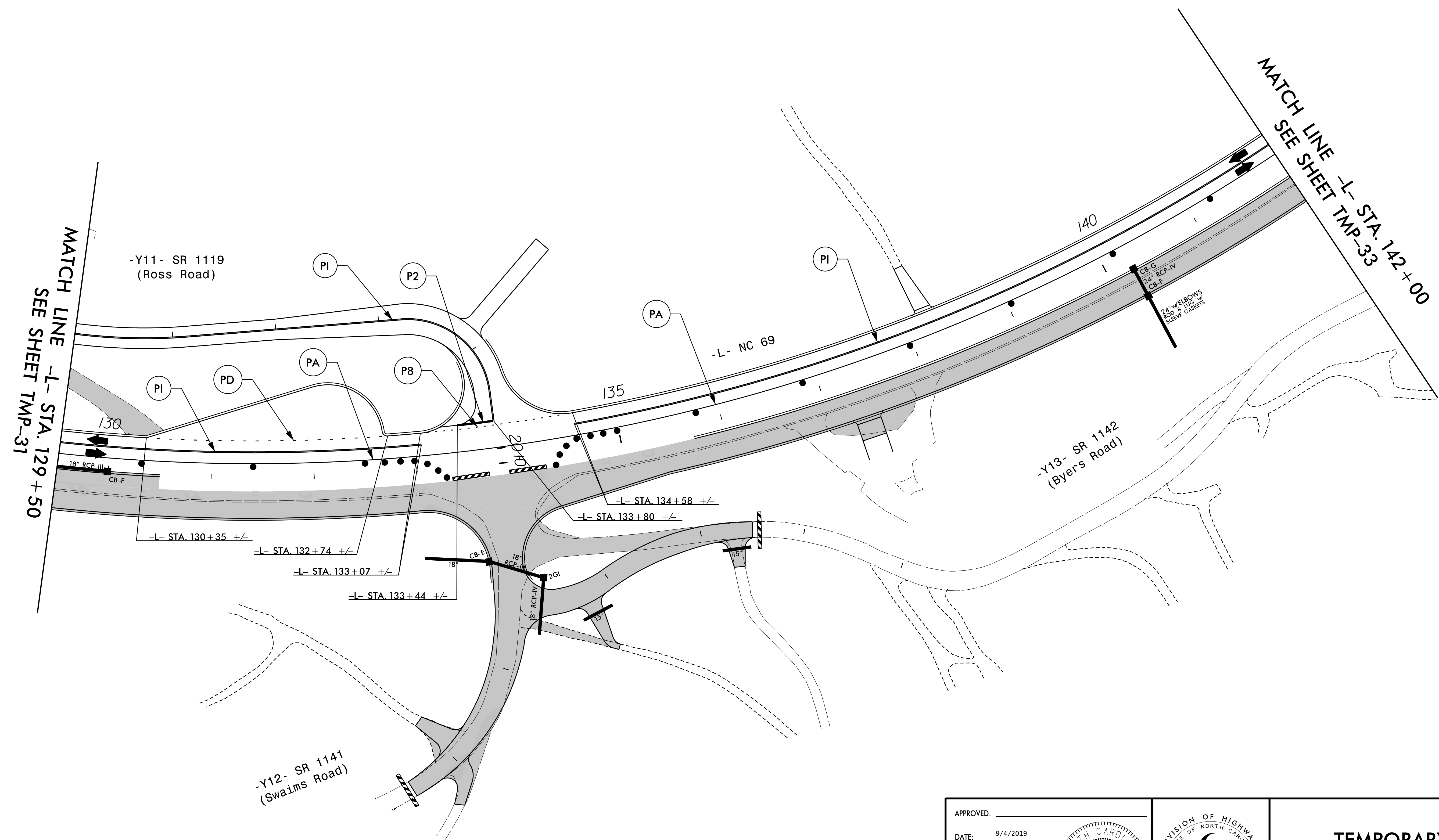
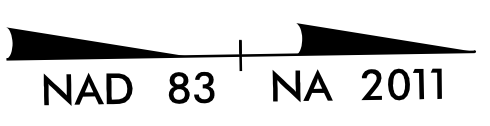
SEAL

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**TEMPORARY
 TRAFFIC CONTROL
 PHASE II**

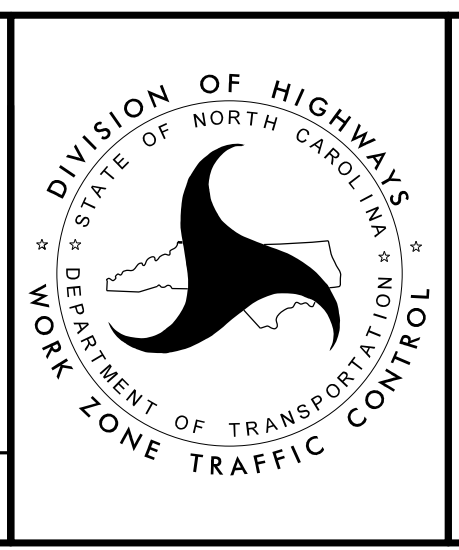



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 DATE: 9/4/2019

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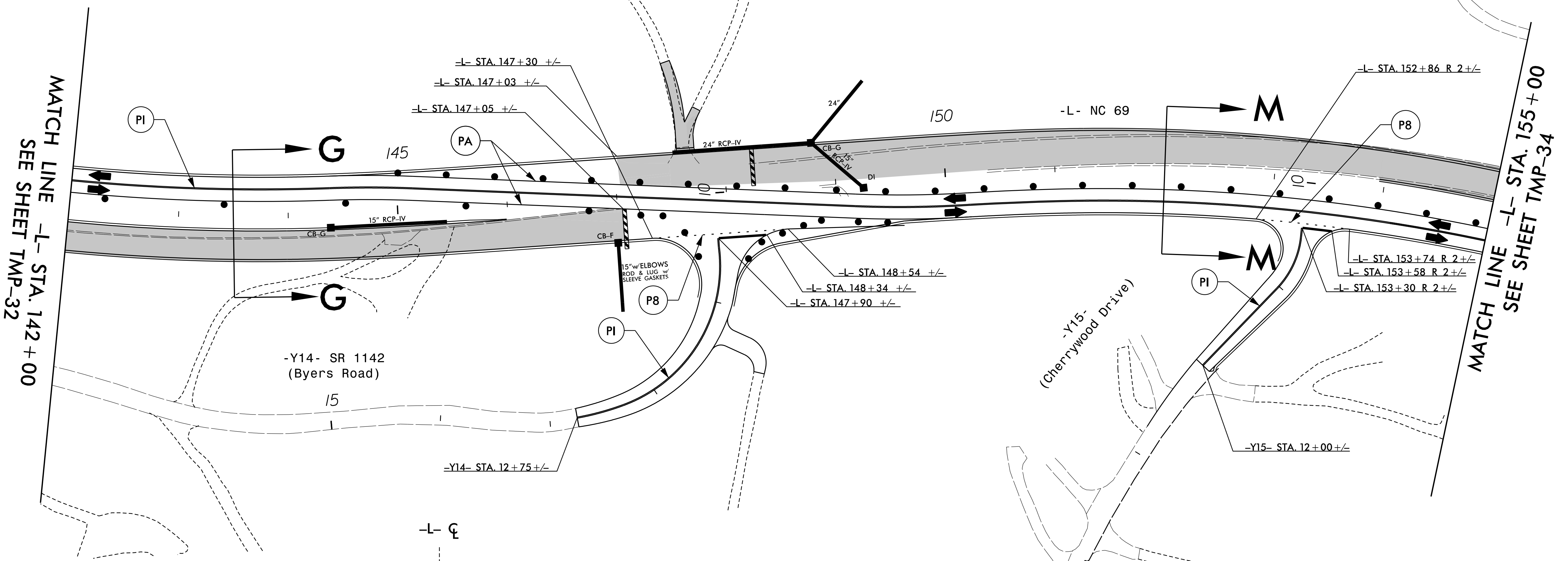
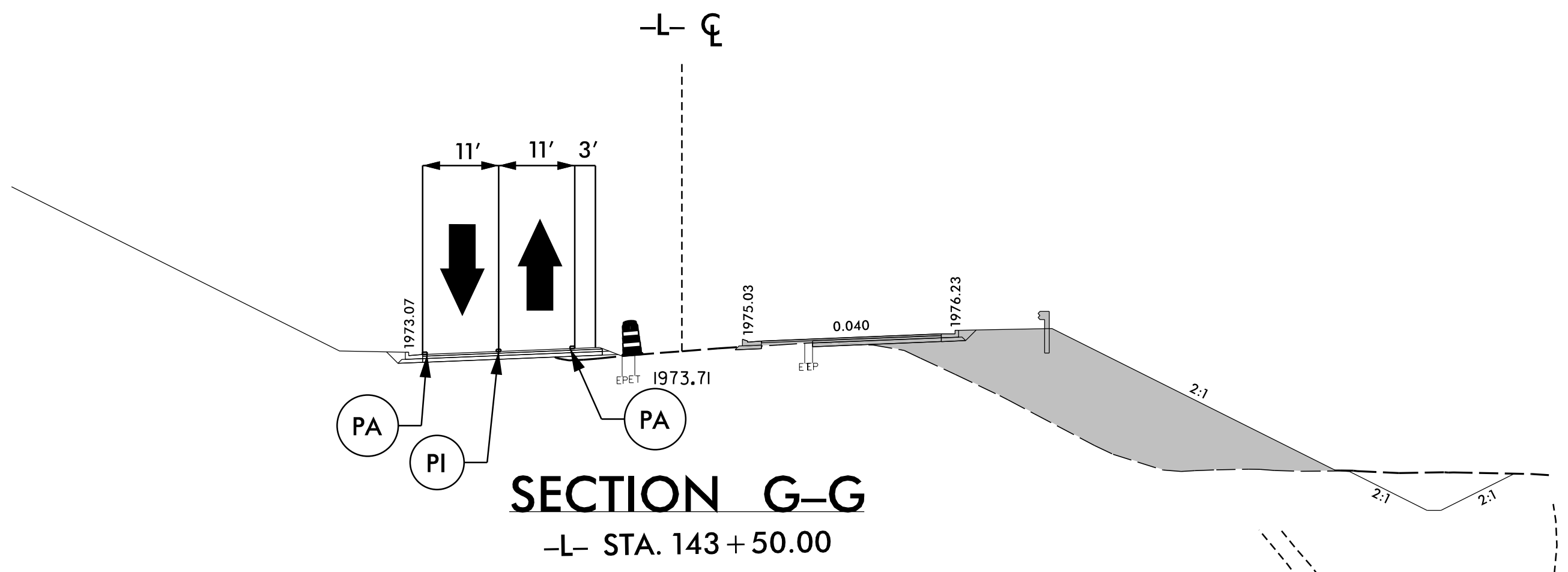
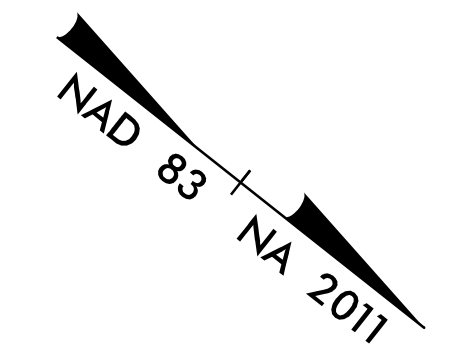




**TEMPORARY
 TRAFFIC CONTROL
 PHASE II**

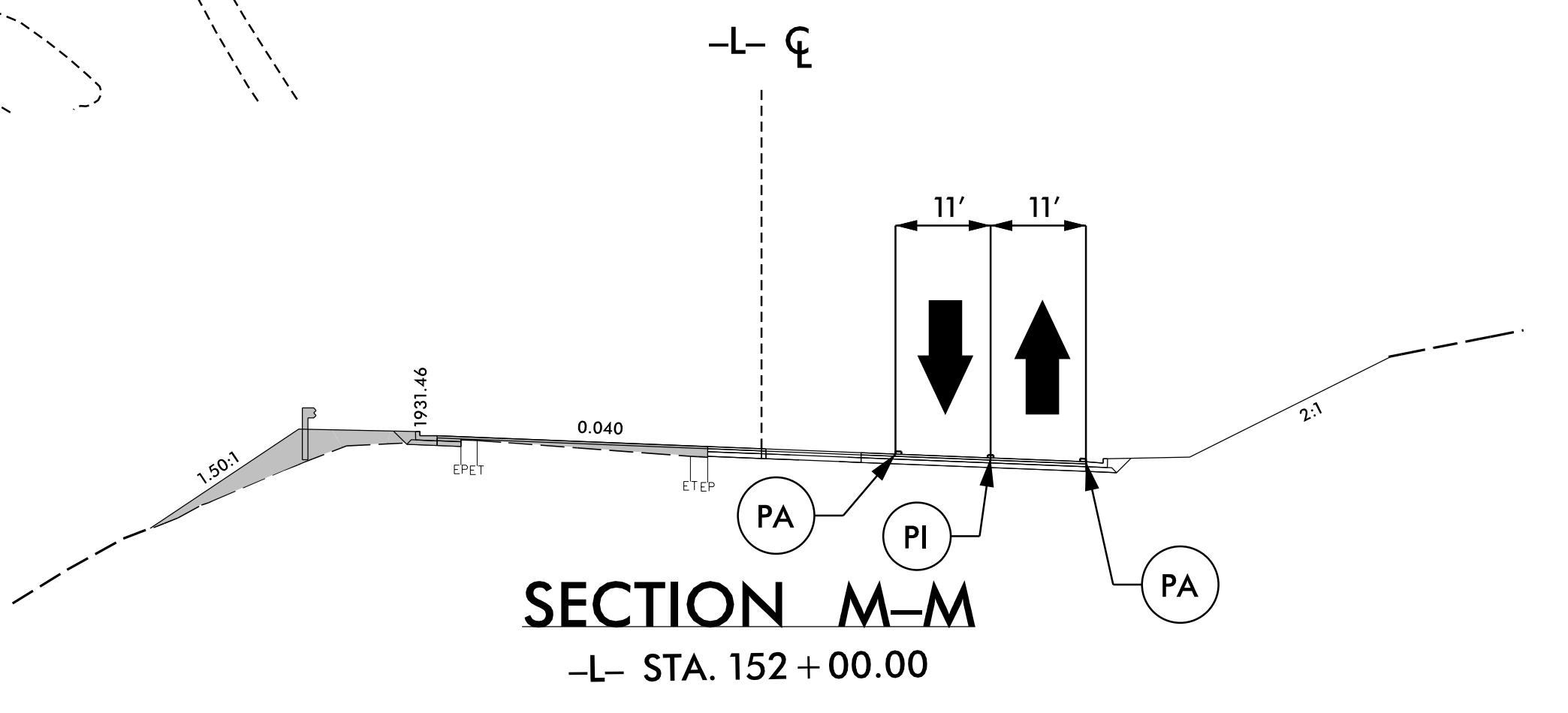
PROJ. REFERENCE NO.	SHEET NO.
A-0011C	TMP-33

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MATCH LINE -L- STA. 142 + 00
 SEE SHEET TMP-32

MATCH LINE -L- STA. 155 + 00
 SEE SHEET TMP-34

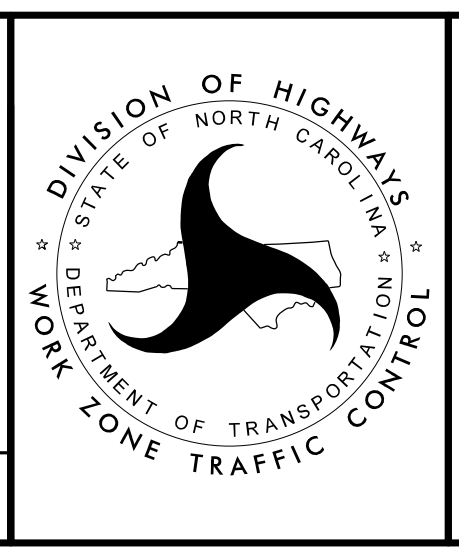


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 DATE: 9/4/2019

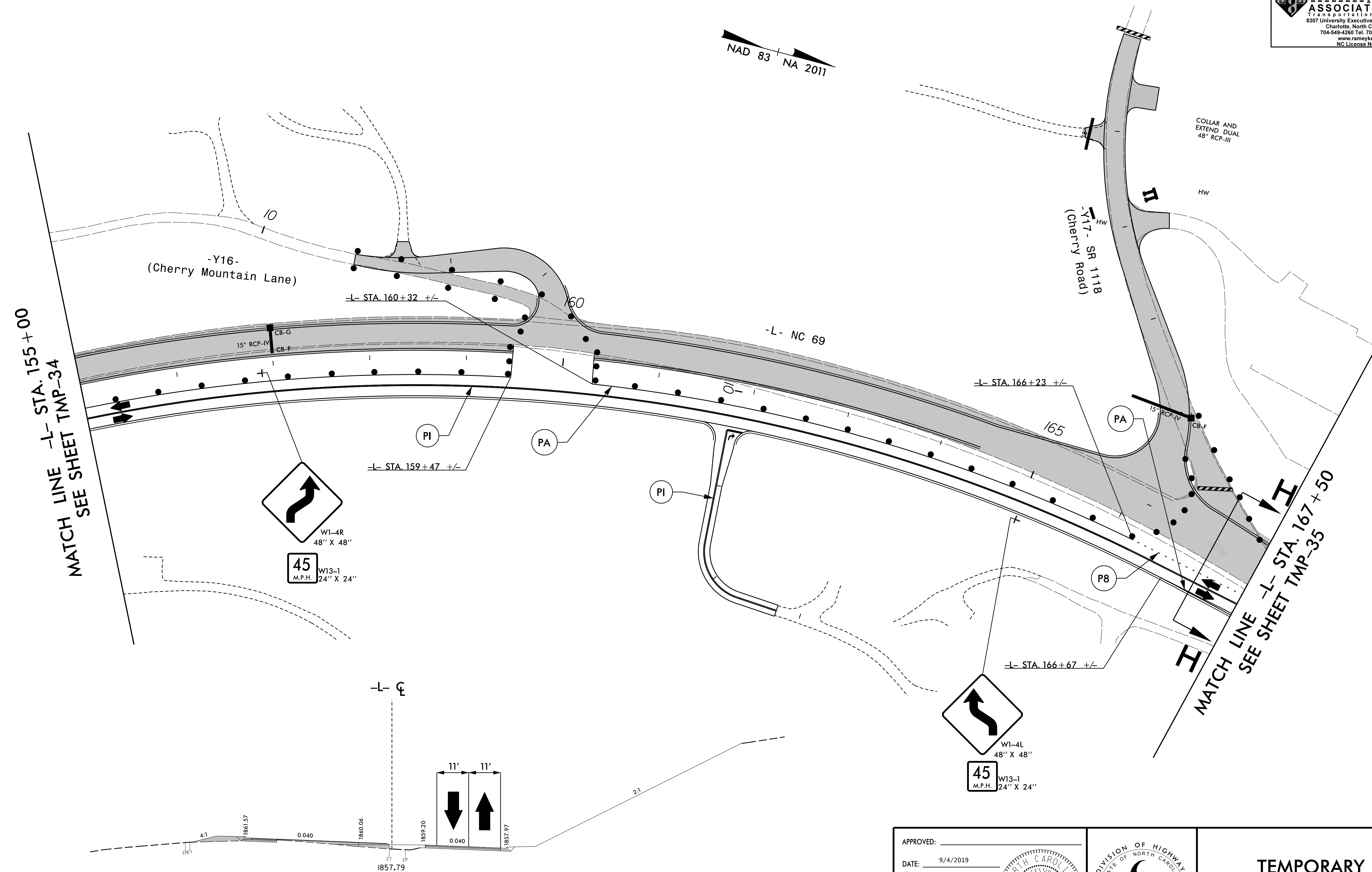
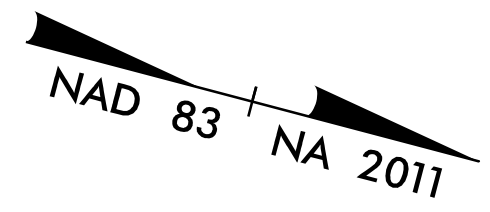
SEAL

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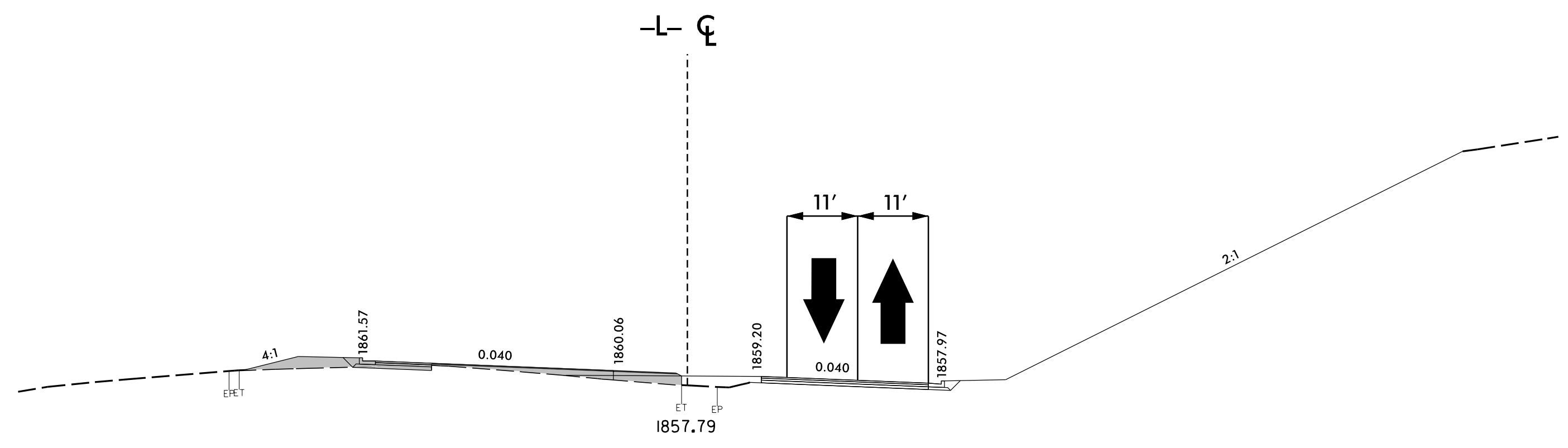
**TEMPORARY
 TRAFFIC CONTROL
 PHASE II**



MATCH LINE -L- STA. 155 + 00
SEE SHEET TMP-34

MATCH LINE -L- STA. 167 + 50
SEE SHEET TMP-35

SECTION H-H
-L- STA. 167 + 00.00

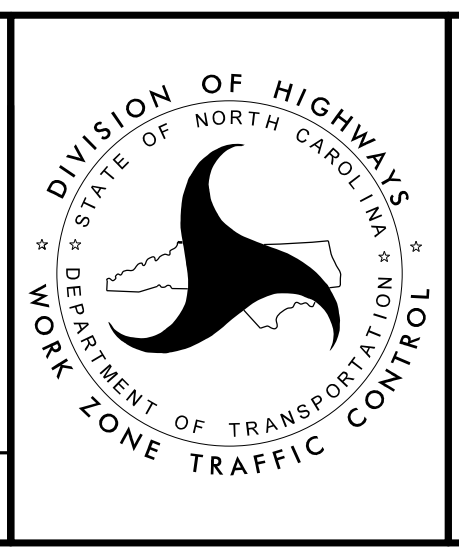


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 DATE: 9/4/2019

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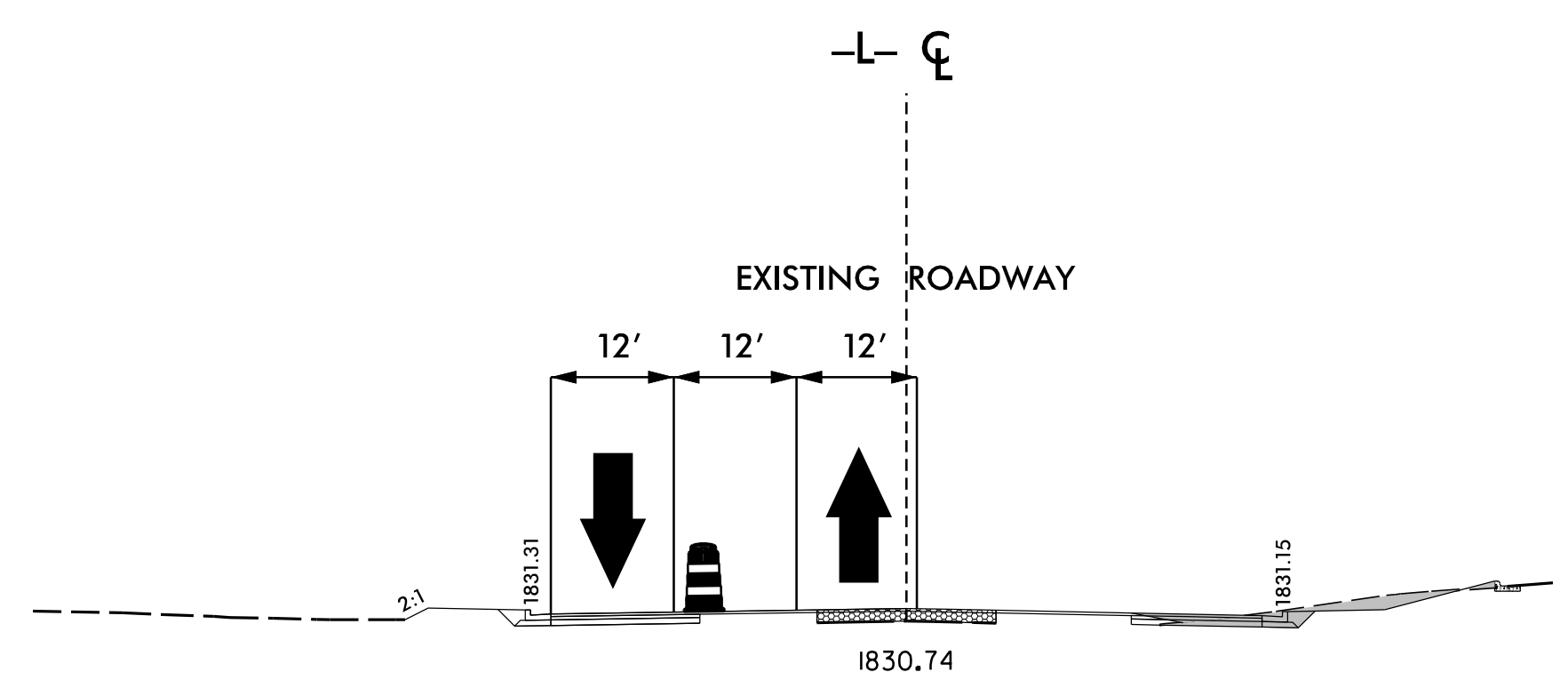
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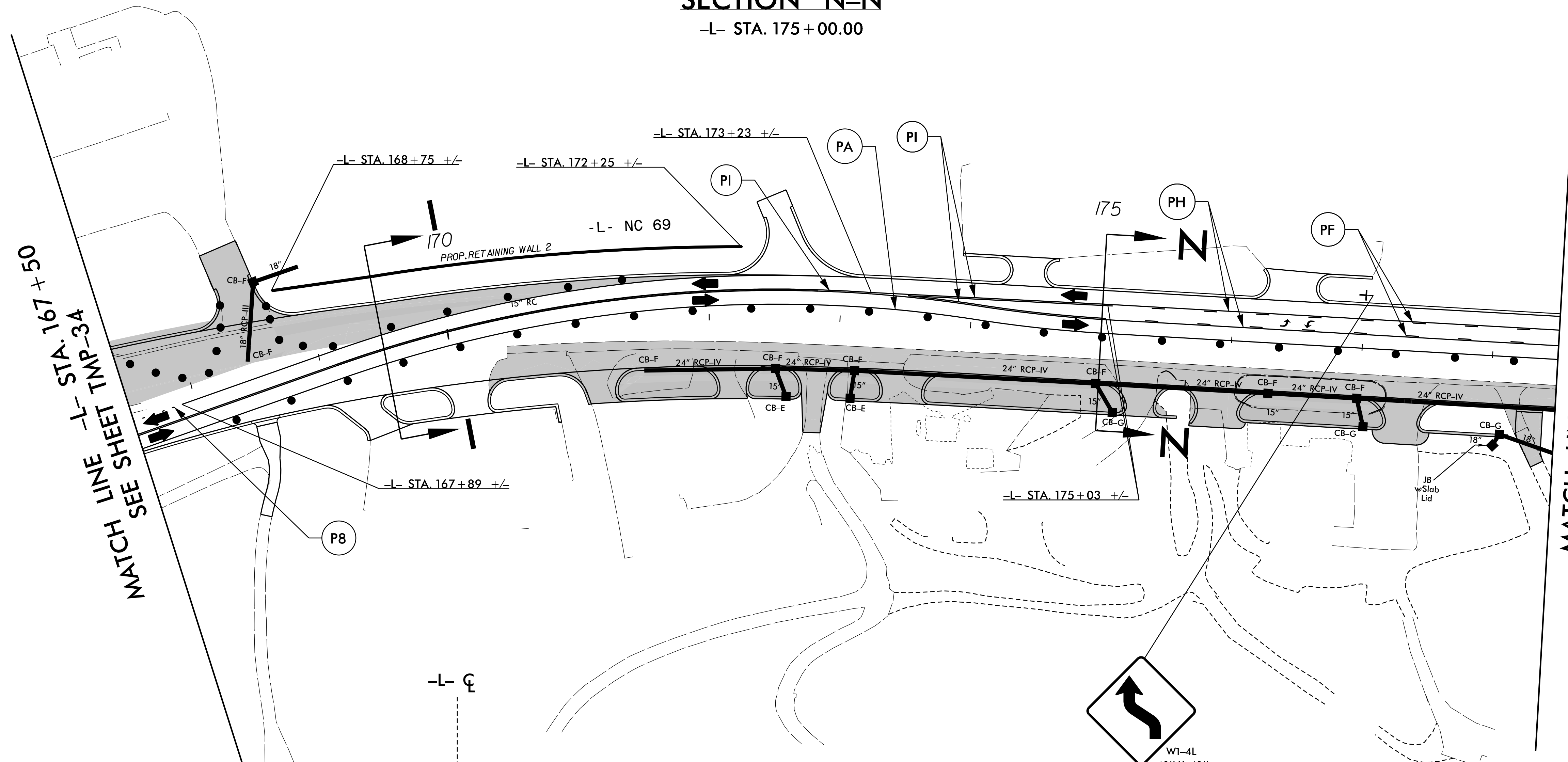
**TEMPORARY
TRAFFIC CONTROL
PHASE II**

PROJ. REFERENCE NO.	SHEET NO.
A-0011C	TMP-35

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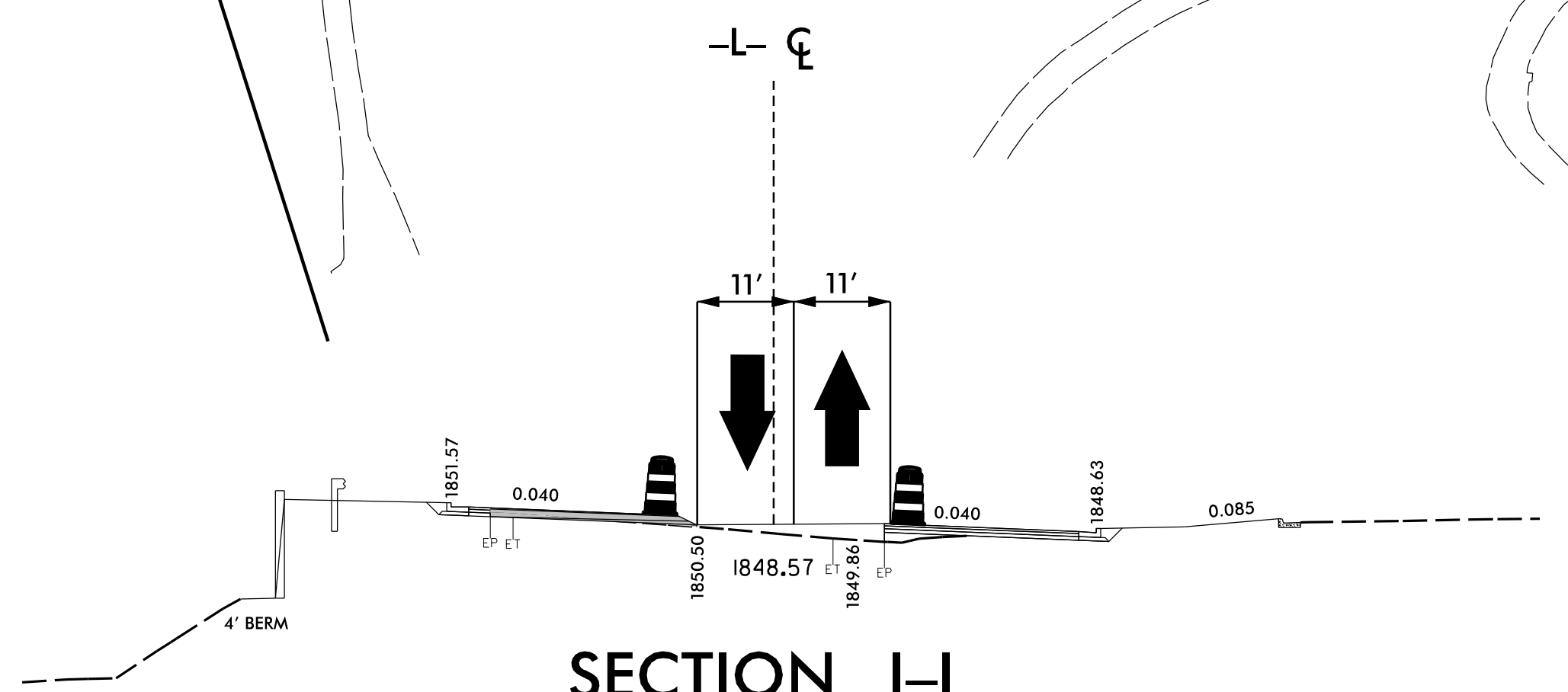


SECTION N-N
 -L- STA. 175 + 00.00

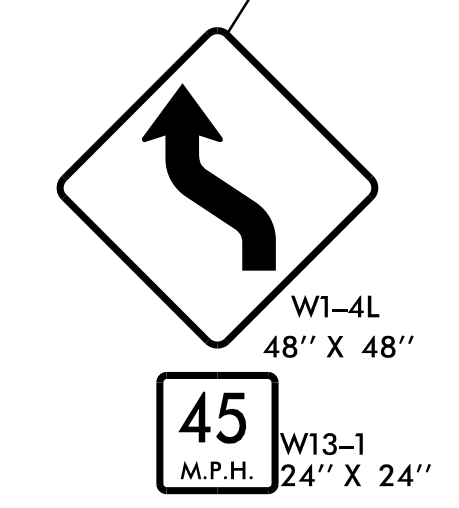


MATCH LINE -L- STA. 167 + 50
 SEE SHEET TMP-34

MATCH LINE -L- STA. 178 + 50
 SEE SHEET TMP-36



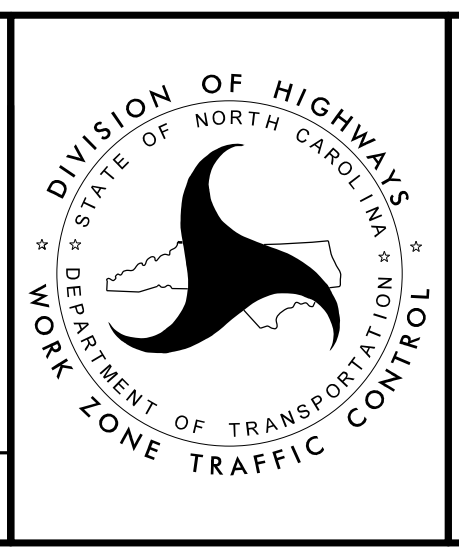
SECTION I-I
 -L- STA. 169 + 50.00



APPROVED: _____
 DATE: 9/4/2019

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 77848AE42004E8

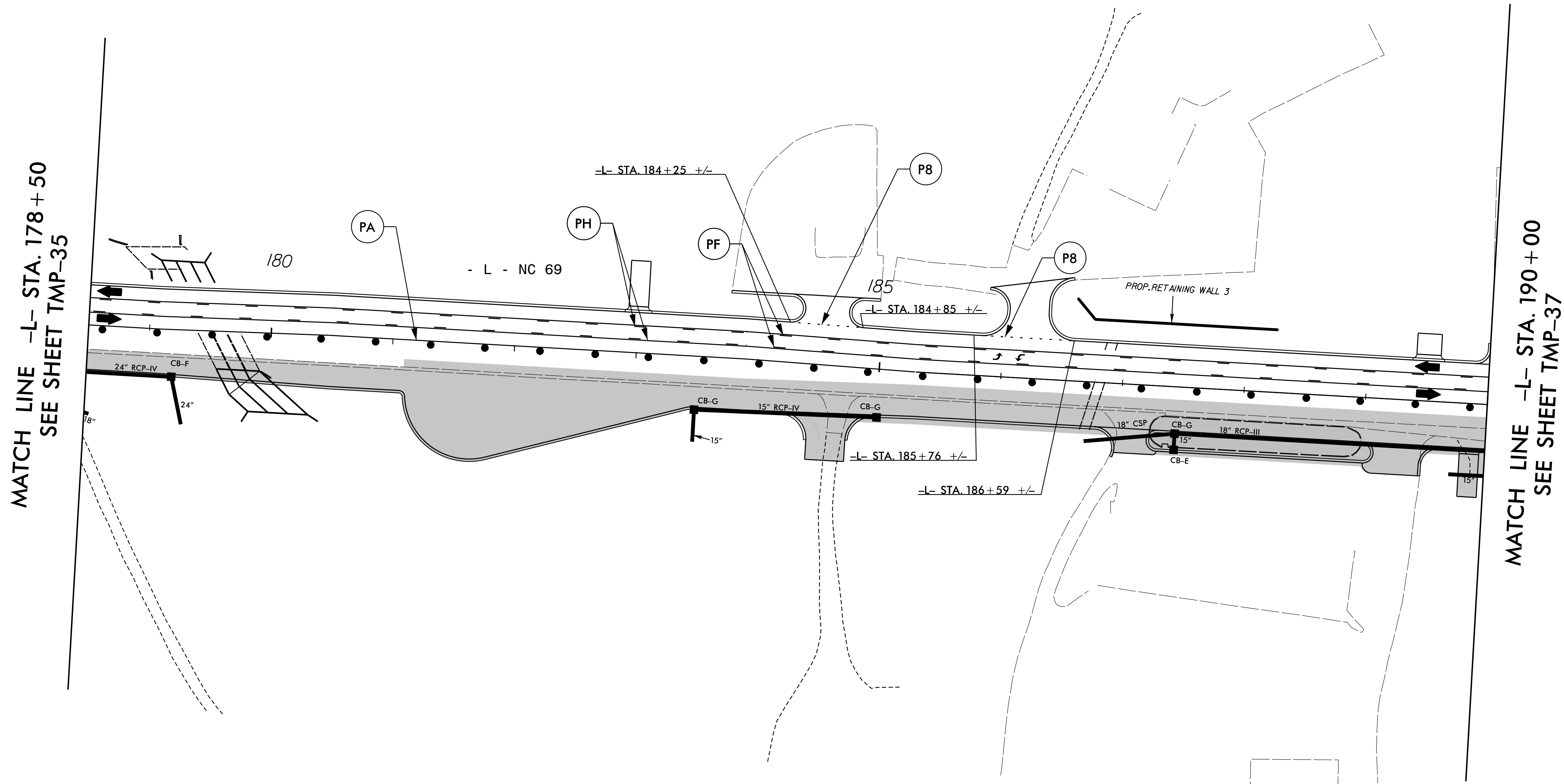
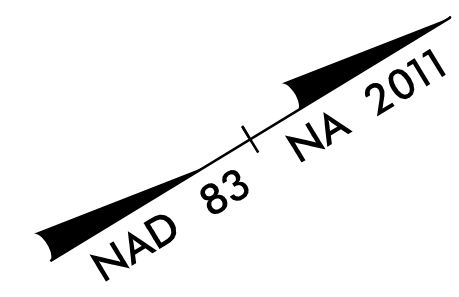
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**TEMPORARY
 TRAFFIC CONTROL
 PHASE II**

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A-0011C	TMP-36

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MATCH LINE -L- STA. 178 + 50
SEE SHEET TMP-35

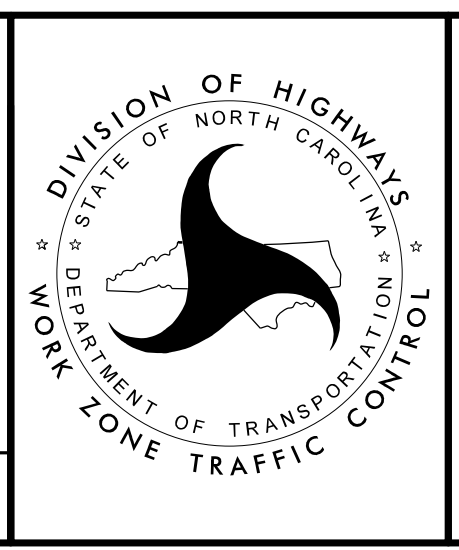
MATCH LINE -L- STA. 190 + 00
SEE SHEET TMP-37

APPROVED: _____
 DATE: 9/4/2019

SEAL

DocuSigned by:
Nicholas E. Burns
 77848AE400A4EB

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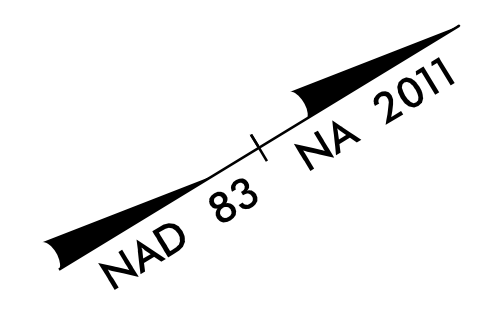
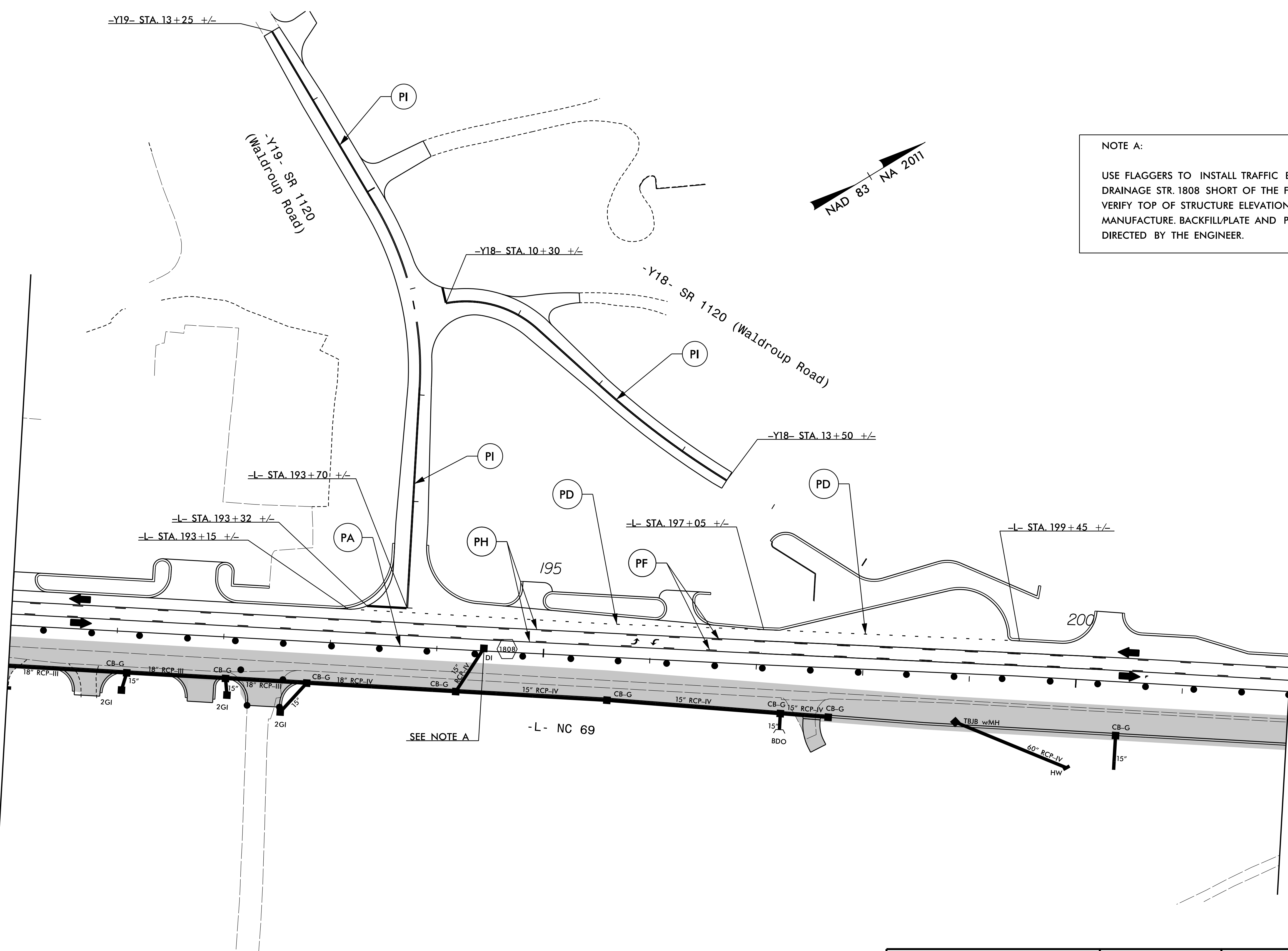


**TEMPORARY
TRAFFIC CONTROL
PHASE II**

PROJ. REFERENCE NO.	SHEET NO.
A-0011C	TMP-37

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MATCH LINE -L- STA. 190+00
SEE SHEET TMP-36



NOTE A:
 USE FLAGGERS TO INSTALL TRAFFIC BEARING PRECAST DRAINAGE STR. 1808 SHORT OF THE FINAL GRADE. FIELD VERIFY TOP OF STRUCTURE ELEVATIONS PRIOR TO MANUFACTURE. BACKFILL/PLATE AND PAVE OVER AS DIRECTED BY THE ENGINEER.

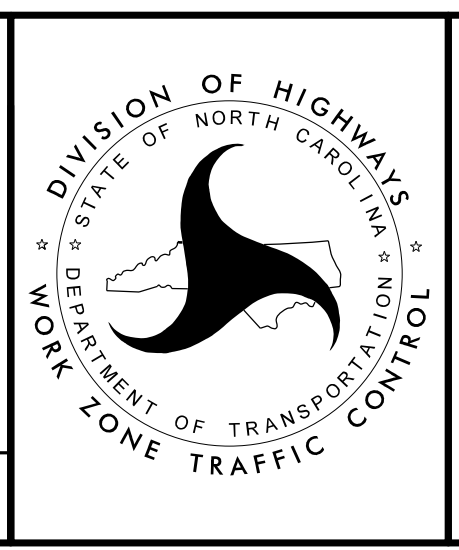
MATCH LINE -L- STA. 202+00
SEE SHEET TMP-38

APPROVED: _____
 DATE: 9/4/2019

SEAL

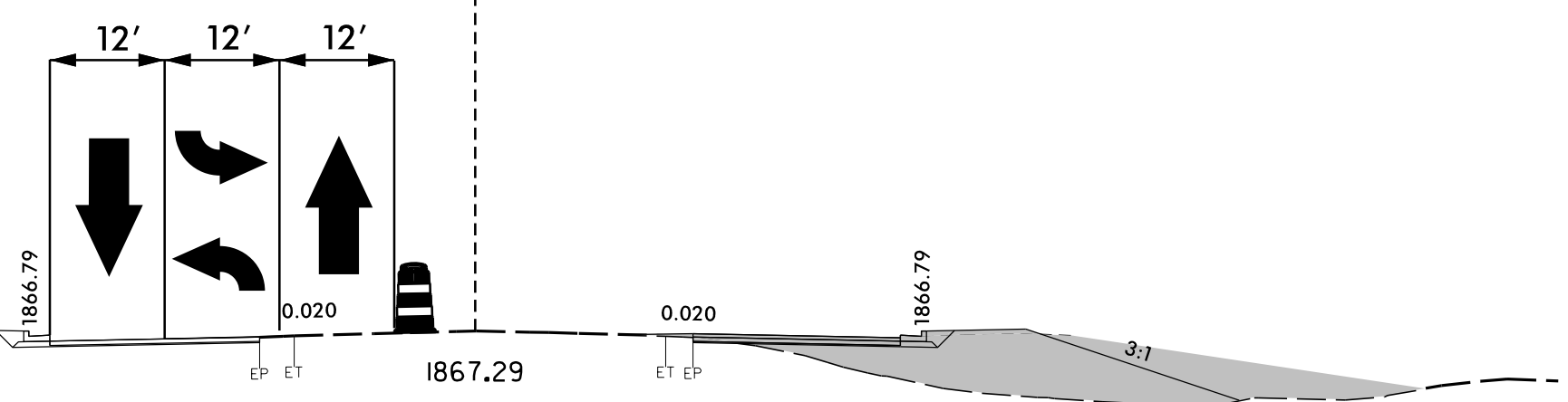
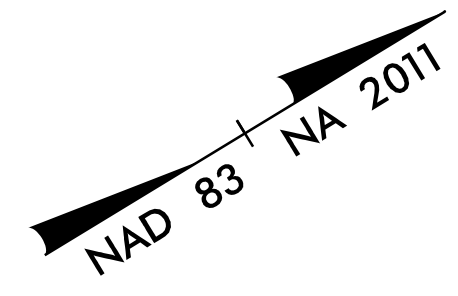
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 77B48AE400A4E8

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TEMPORARY TRAFFIC CONTROL PHASE II

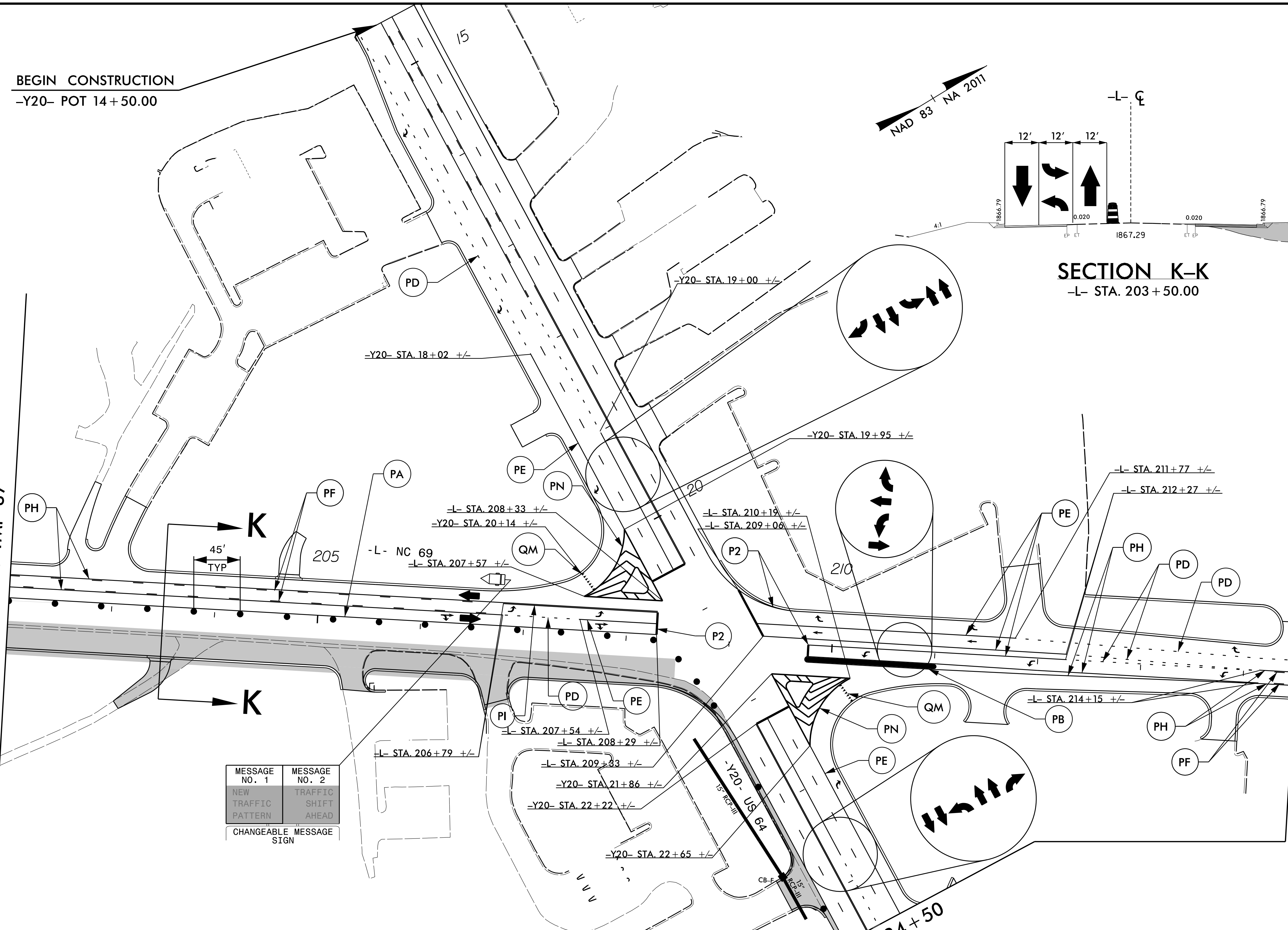
BEGIN CONSTRUCTION
 -Y20- POT 14 + 50.00



SECTION K-K
 -L- STA. 203 + 50.00

MATCH LINE -L- STA. 202 + 00
 SEE SHEET TMP-37

MATCH LINE -L- STA. 214 + 50
 SEE SHEET TMP-39



MESSAGE NO. 1	MESSAGE NO. 2
NEW TRAFFIC PATTERN	TRAFFIC SHIFT AHEAD
CHANGEABLE MESSAGE SIGN	

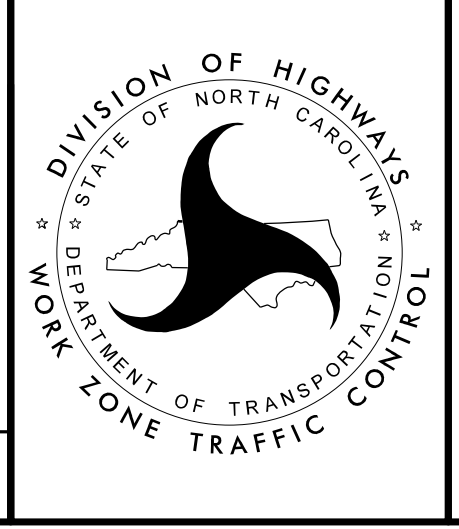
MATCH LINE -Y20- STA. 24 + 50
 SEE SHEET TMP-40

APPROVED: _____
 DATE: 9/11/2019

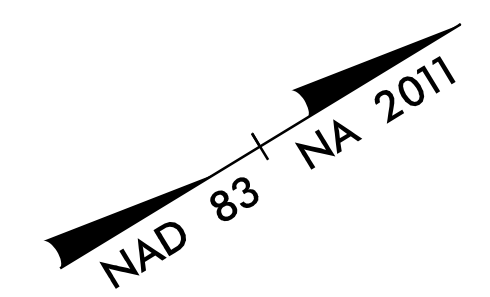
SEAL

DocuSigned by:
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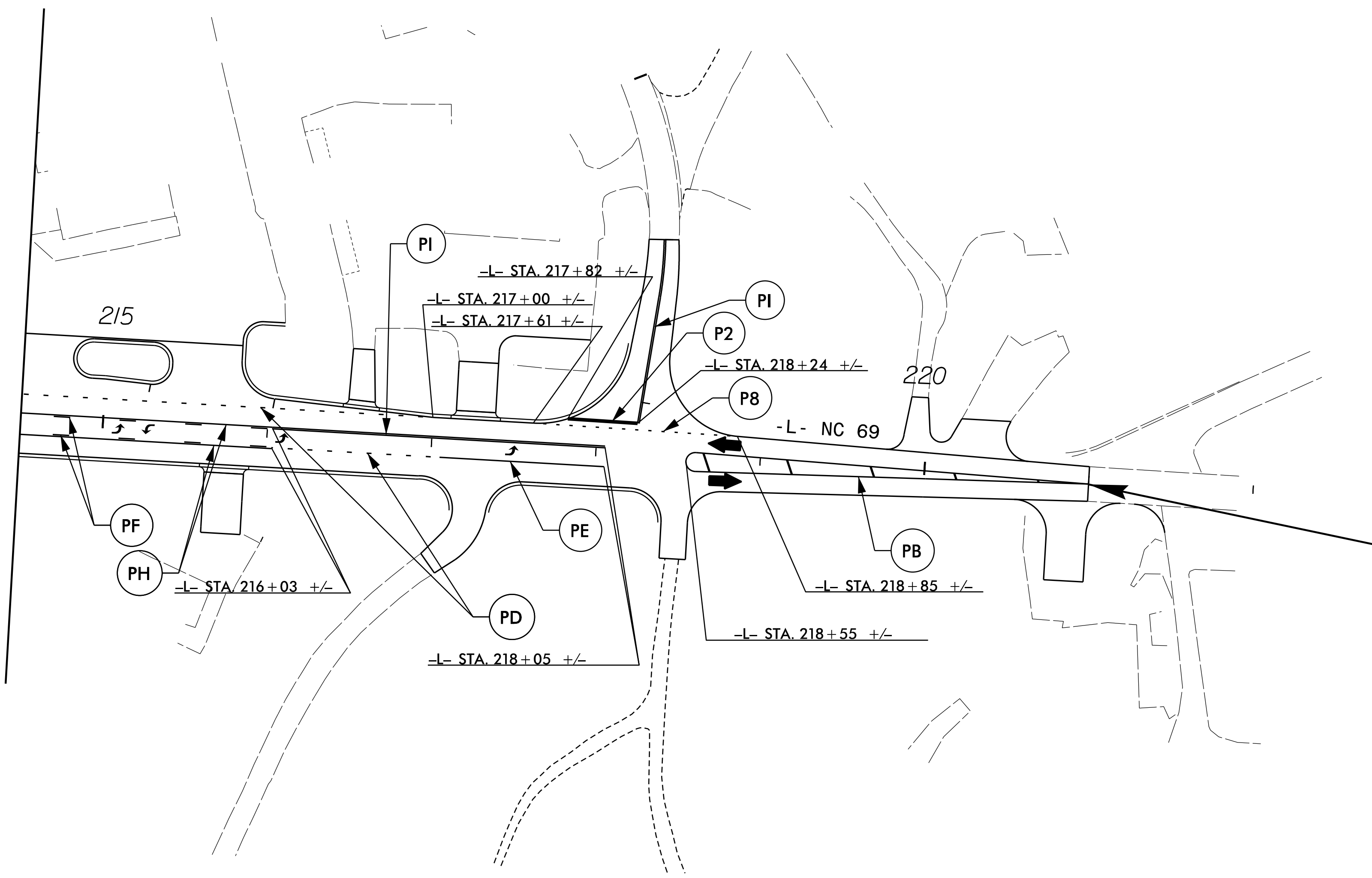
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TEMPORARY TRAFFIC CONTROL PHASE II



MATCH LINE -L- STA. 214 + 50
 SEE SHEET TMP-38



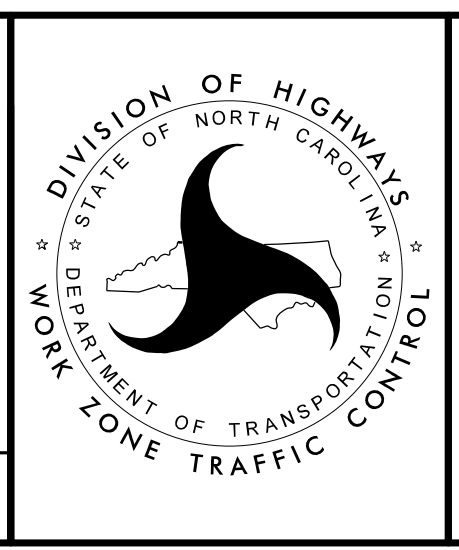
END T.I.P. PROJECT A-0011C
 -L- POT 221 + 00.00

APPROVED: _____
 DATE: 9/11/2019

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 Nicholas E. Burns

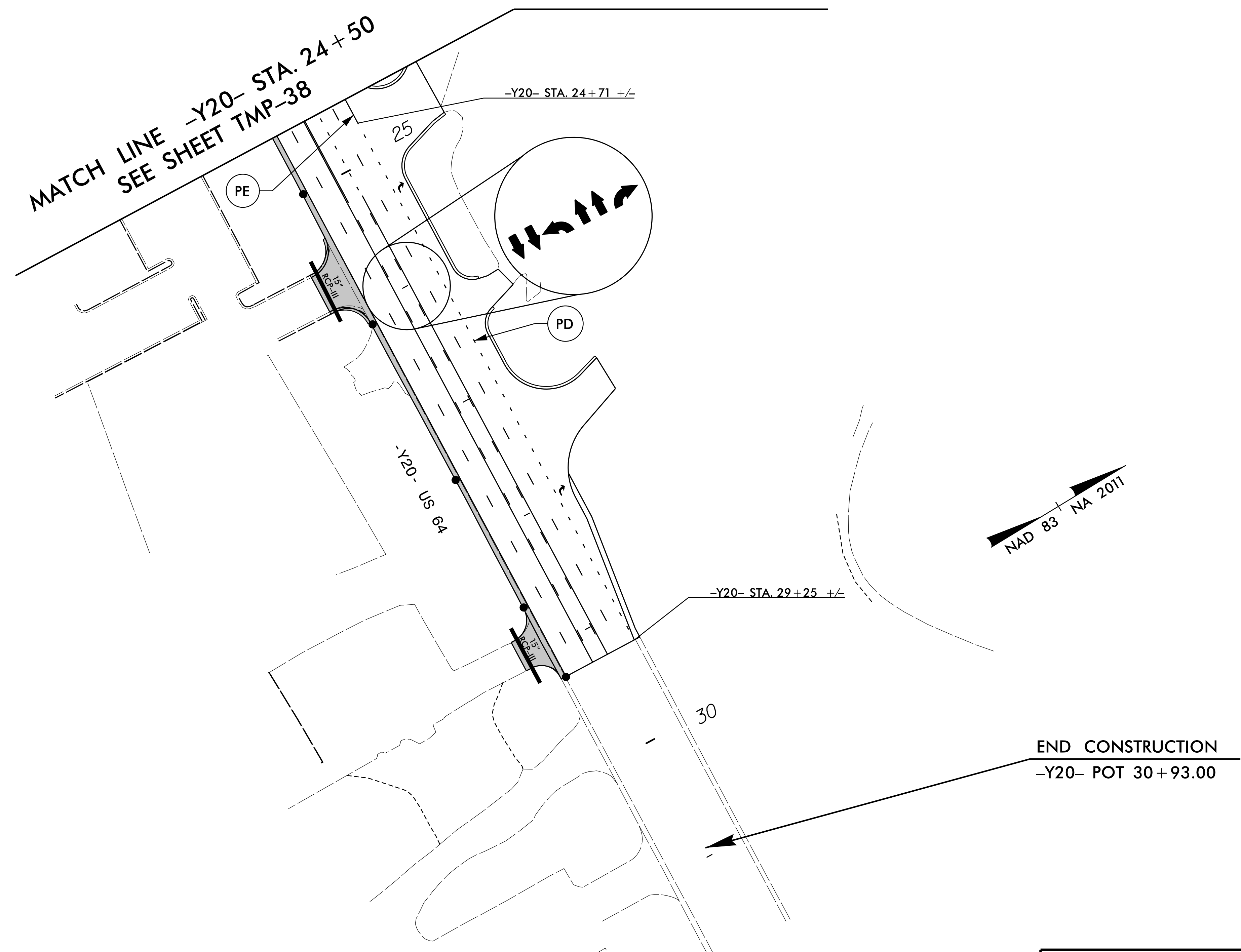
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**TEMPORARY
 TRAFFIC CONTROL
 PHASE II**

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A-0011C	TMP-40

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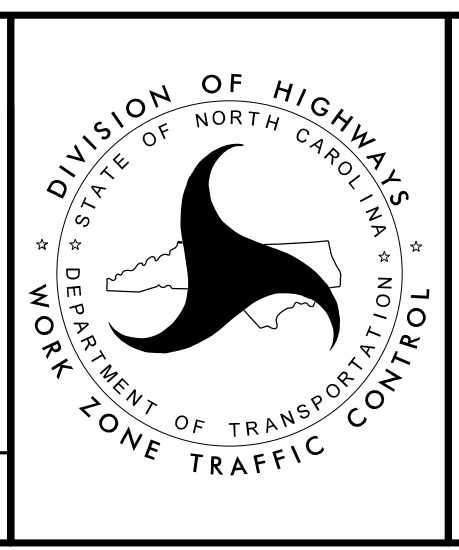
END CONSTRUCTION
 -Y20- POT 30+93.00

APPROVED: _____
 DATE: 9/11/2019

SEAL

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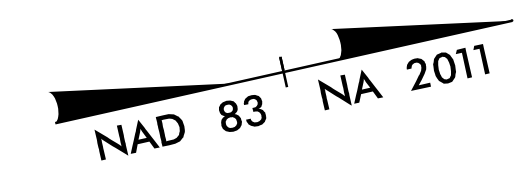


**TEMPORARY
 TRAFFIC CONTROL
 PHASE II**

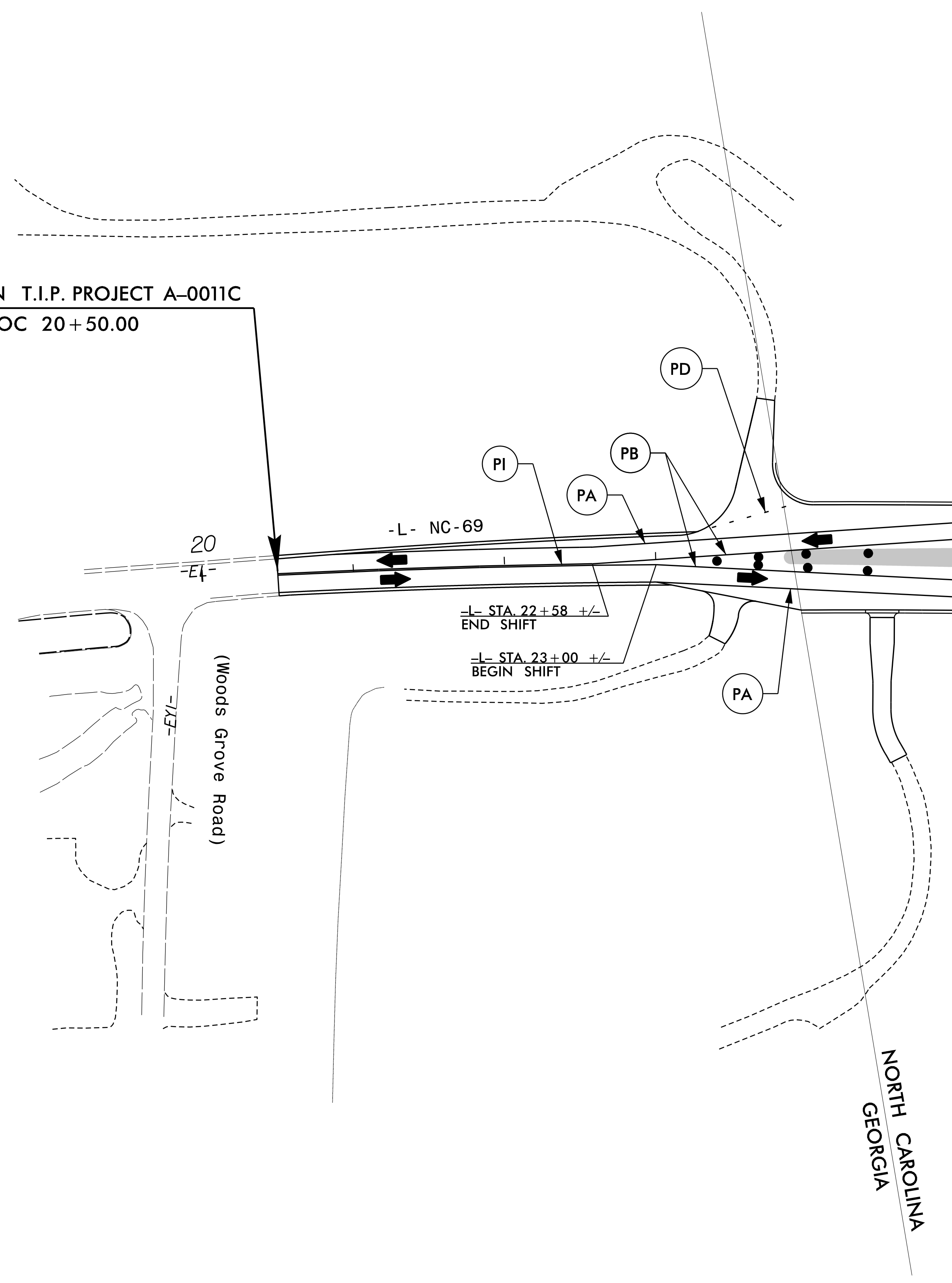
DIVISION OF HIGHWAYS
 STATE OF NORTH CAROLINA
 DEPARTMENT OF TRANSPORTATION
 WORK ZONE TRAFFIC CONTROL

PROJ. REFERENCE NO.	SHEET NO.
A-0011C	TMP-41

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 Charlotte, North Carolina 28262
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BEGIN T.I.P. PROJECT A-0011C
 -L- POC 20+50.00



-L- STA. 22+58 +/-
 END SHIFT
 -L- STA. 23+00 +/-
 BEGIN SHIFT

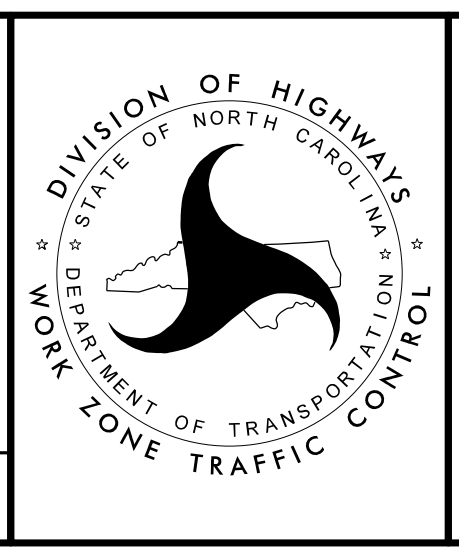
MATCH LINE -L- STA. 25+00
 SEE SHEET TMP-42

NORTH CAROLINA
 GEORGIA

APPROVED: _____
 DATE: 9/4/2019

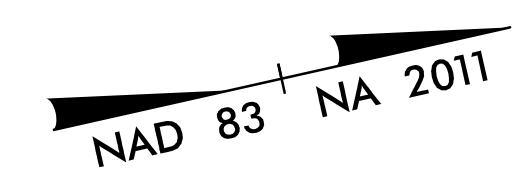
SEAL

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 Nicholas E. Burns
 77848AE400A4EB

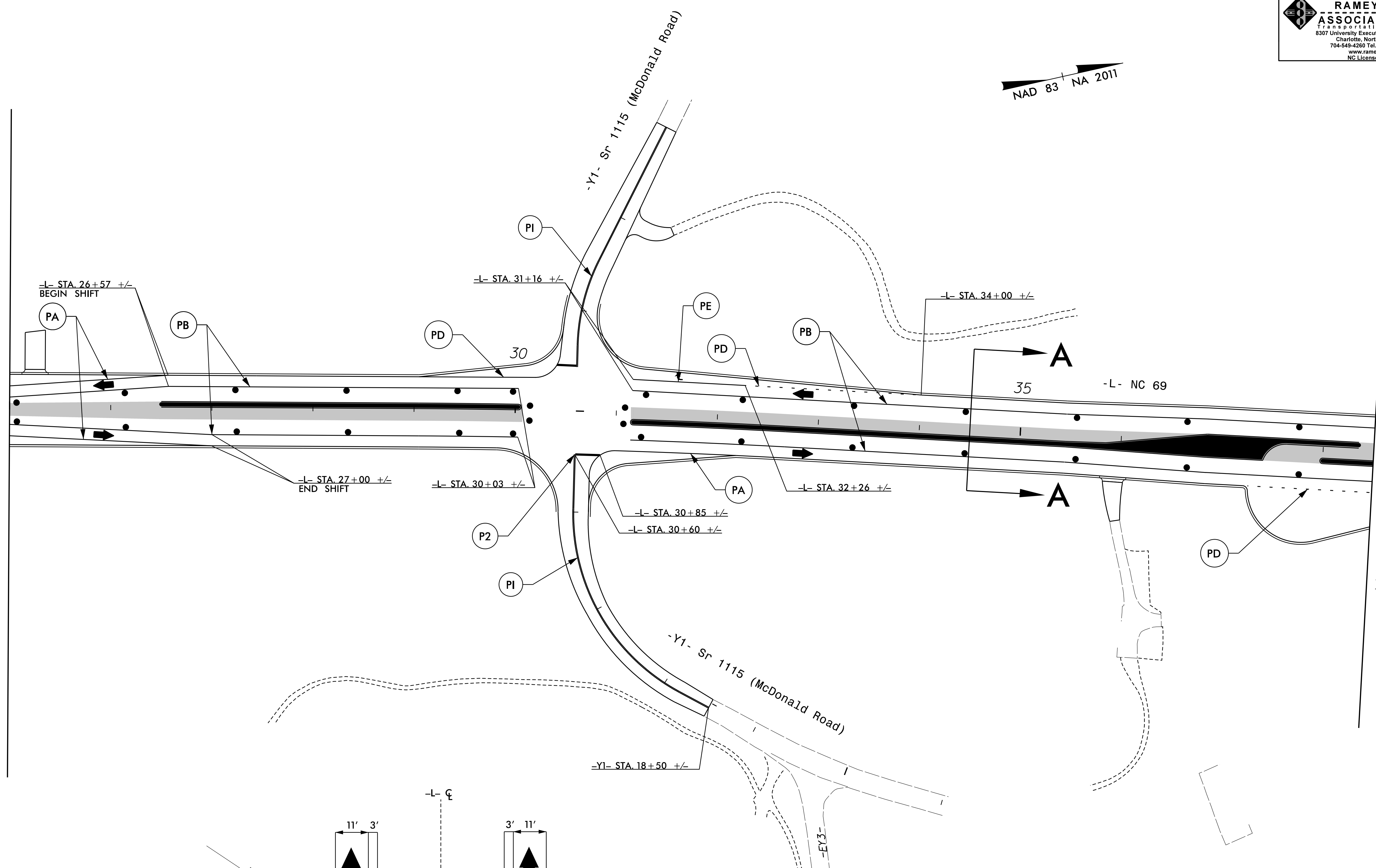


**TEMPORARY
 TRAFFIC CONTROL
 PHASE III**

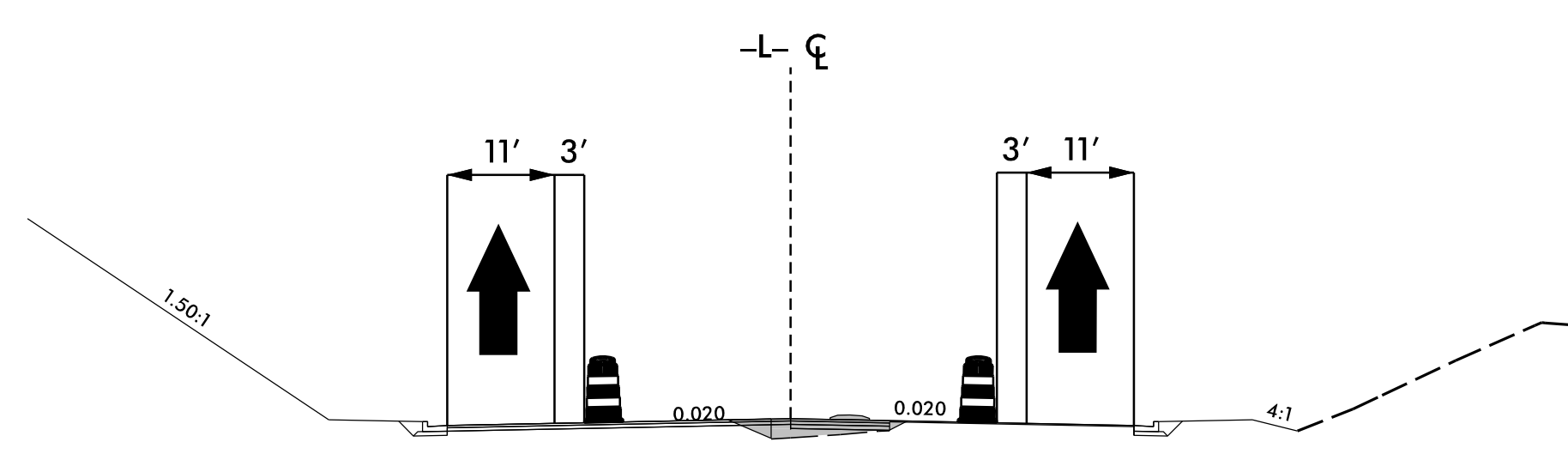
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MATCH LINE -L- STA. 25+00
SEE SHEET TMP-41



MATCH LINE -L- STA. 38+50
SEE SHEET TMP-43



SECTION A-A
-L- STA. 34+50.00

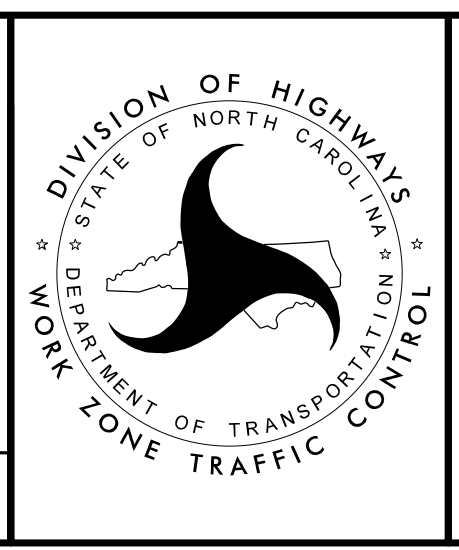
APPROVED: _____
DATE: 9/4/2019

SEAL

NORTH CAROLINA
PROFESSIONAL
SEAL
046300
ENGINEER
NICHOLAS E. BURNS
77848AE4004AEB

DocuSigned by
Nicholas E. Burns

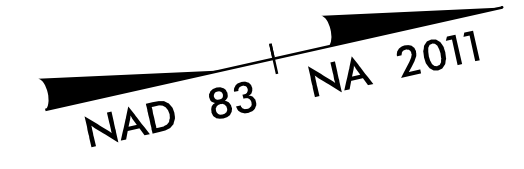
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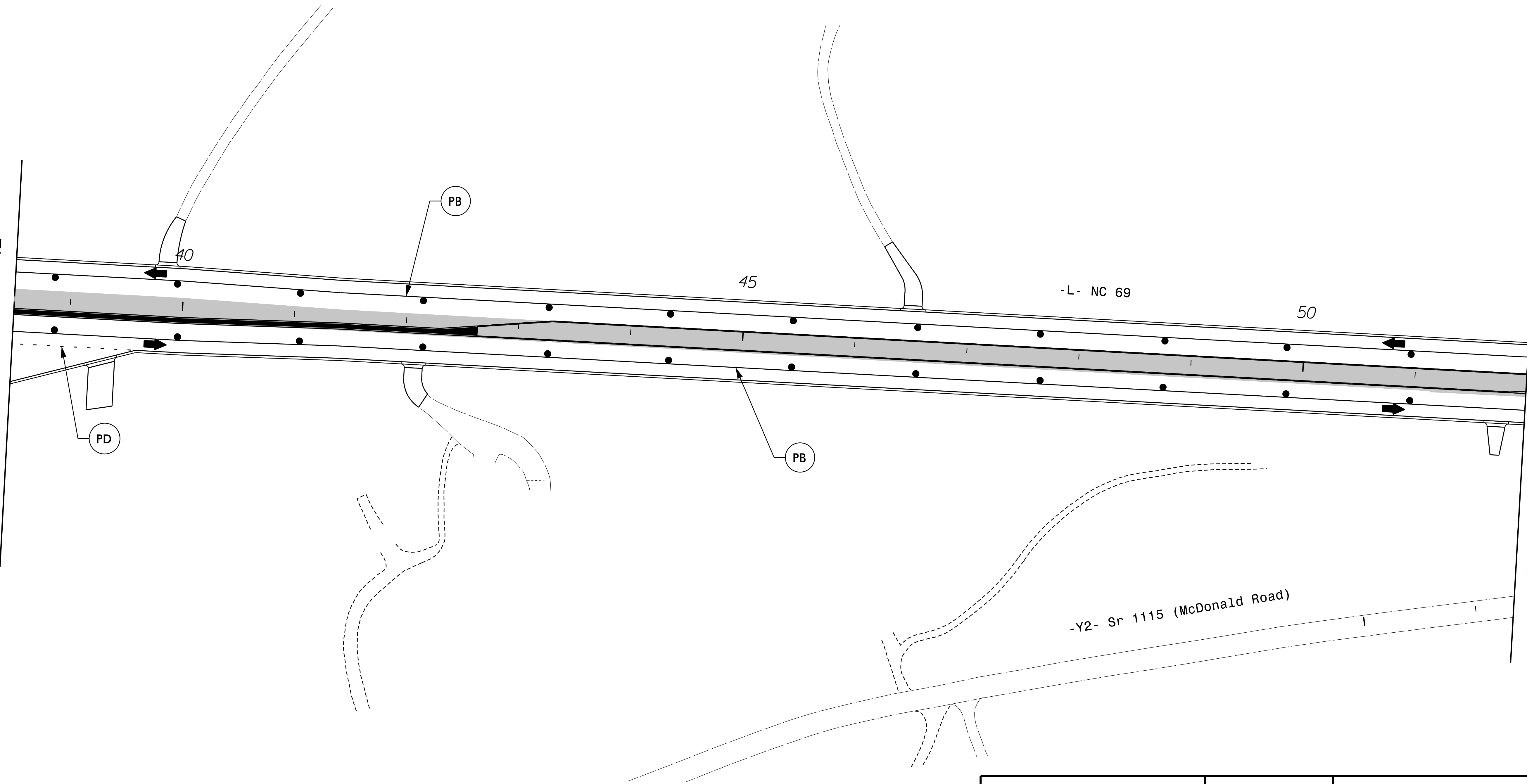
TEMPORARY
TRAFFIC CONTROL
PHASE III

PROJ. REFERENCE NO.	SHEET NO.
A-0011C	TMP-43

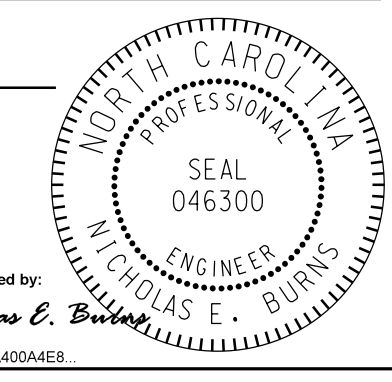
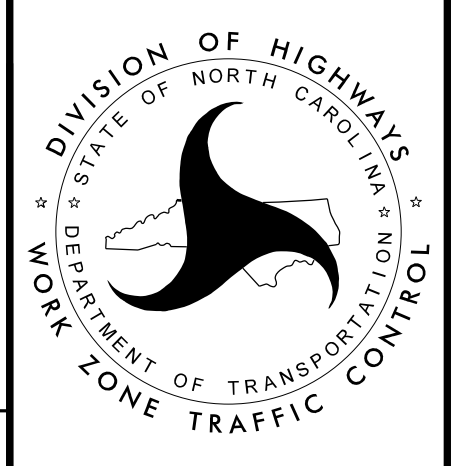
RAMEY KEMP ASSOCIATES, INC.
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MATCH LINE -L- STA. 38 + 50
 SEE SHEET TMP-42

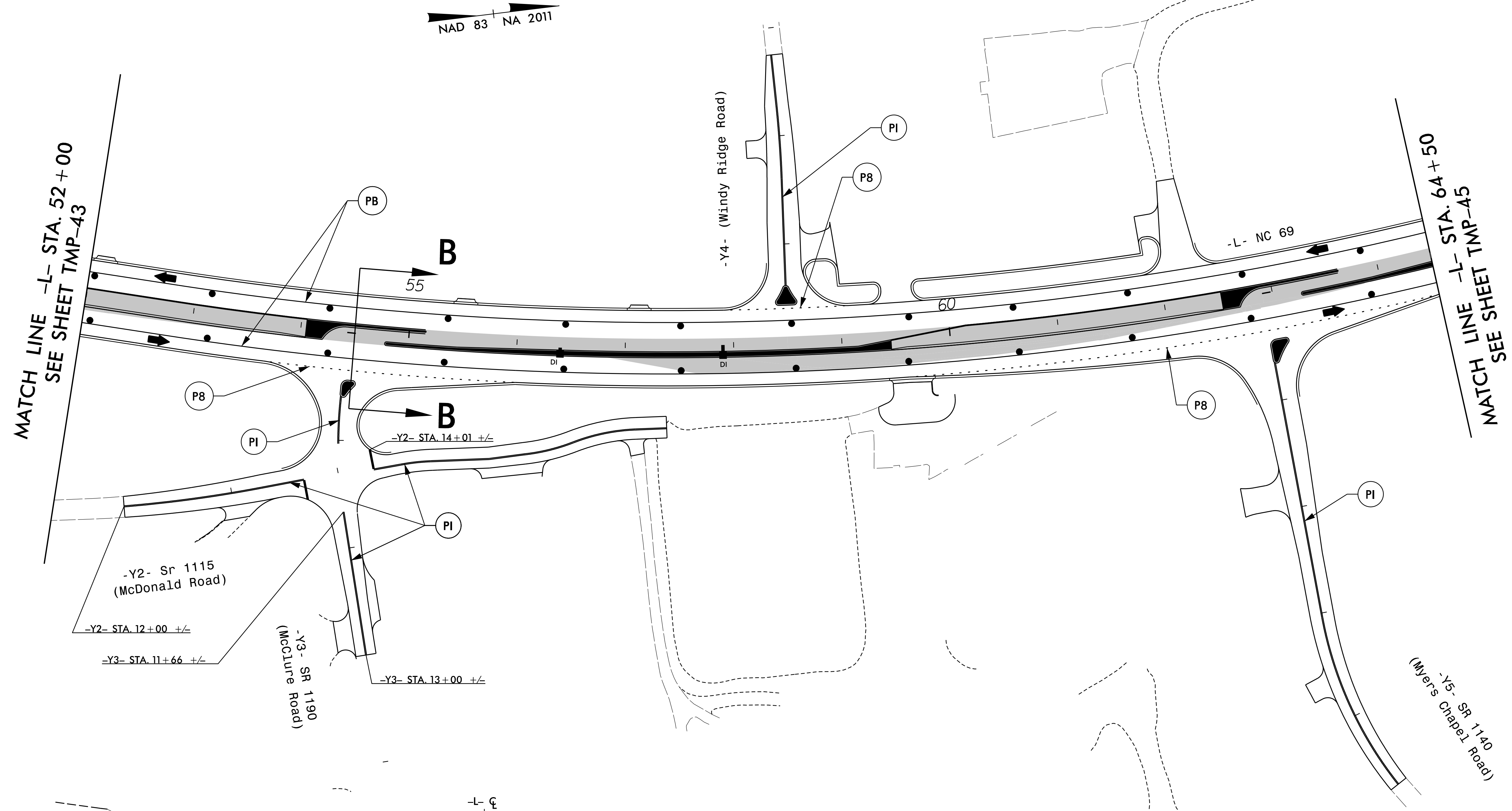


MATCH LINE -L- STA. 52 + 00
 SEE SHEET TMP-44

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<p align="center">DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED</p>		

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A-0011C	TMP-44

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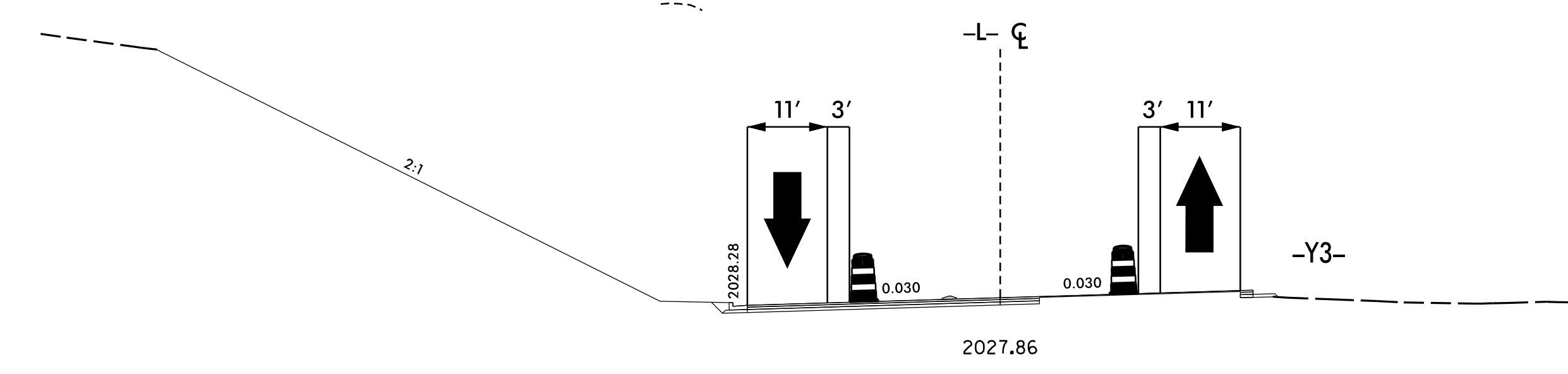
MATCH LINE -L- STA. 52+00
SEE SHEET TMP-43

MATCH LINE -L- STA. 64+50
SEE SHEET TMP-45

-Y2- Sr 1115
(McDonald Road)

-Y3- SR 1190
(McClure Road)

-Y5- SR 1140
(Myers Chapel Road)



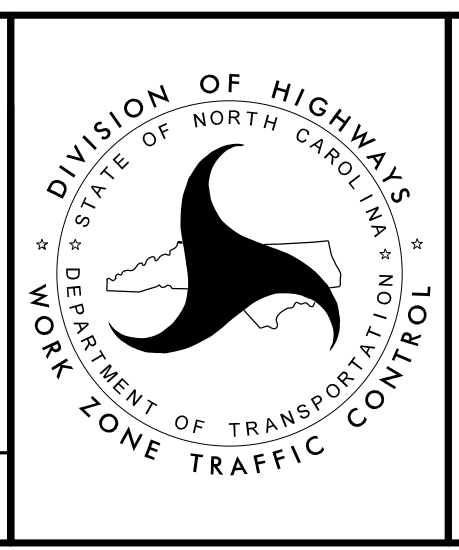
SECTION B-B
-L- STA. 54+50.00

APPROVED: _____
 DATE: 9/4/2019

SEAL
 Nicholas E. Burns
 77848AE400AEB

NORTH CAROLINA PROFESSIONAL ENGINEER SEAL 046300
 NICHOLAS E. BURNS

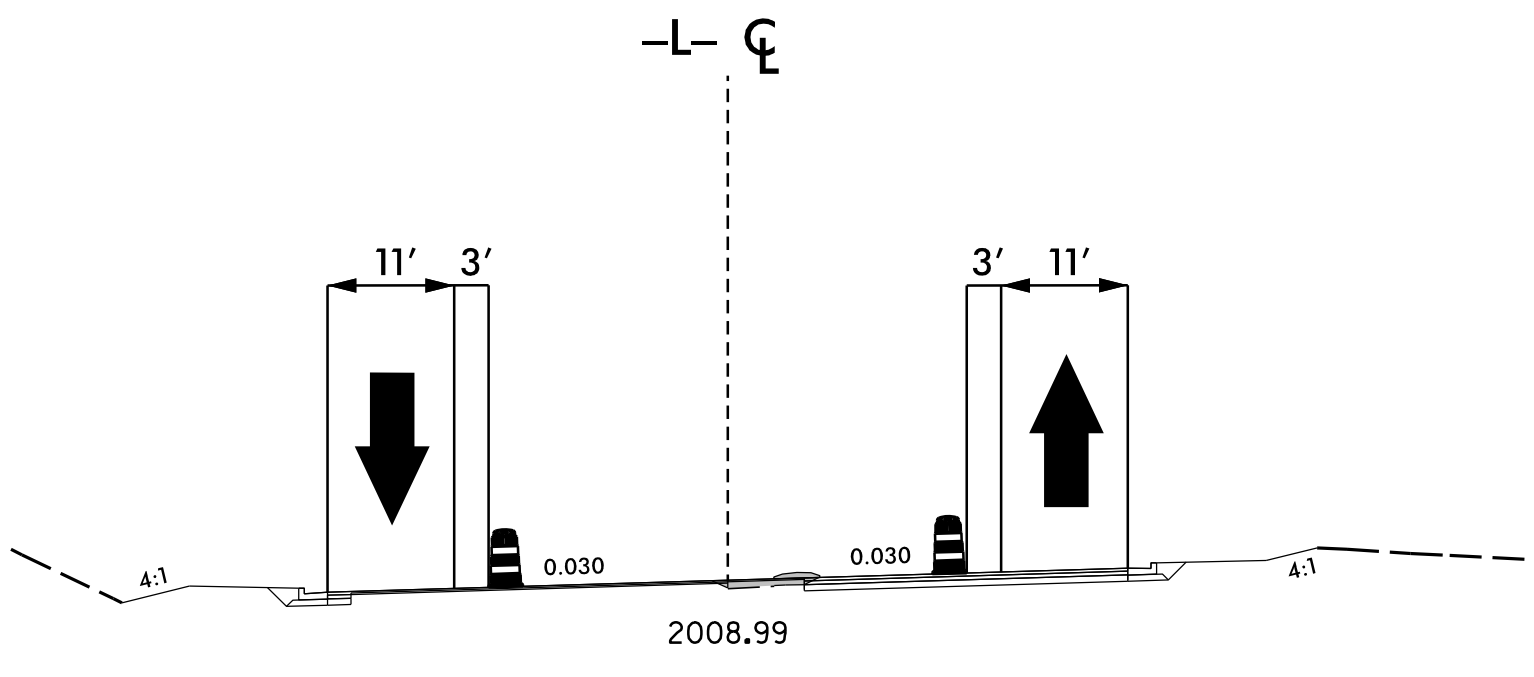
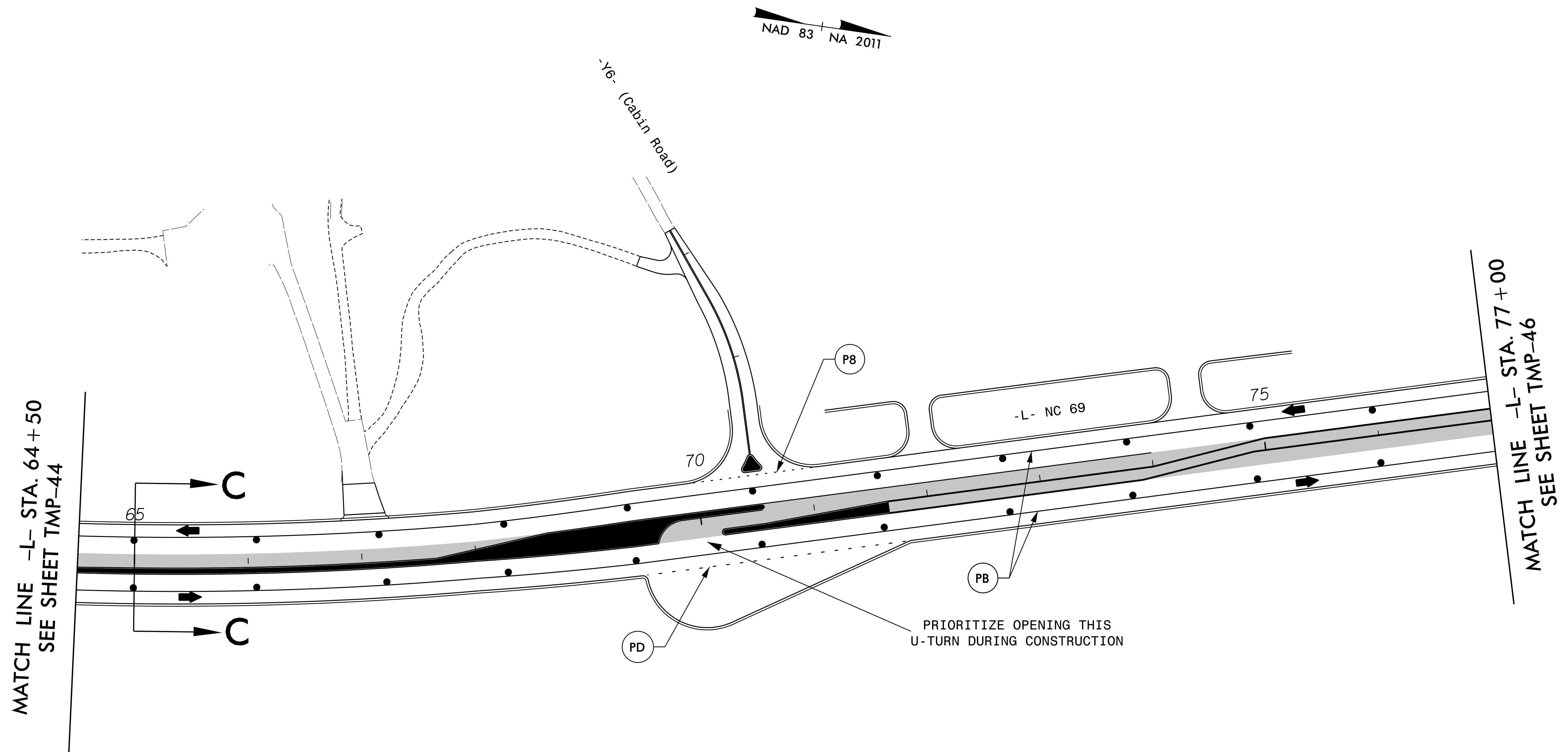
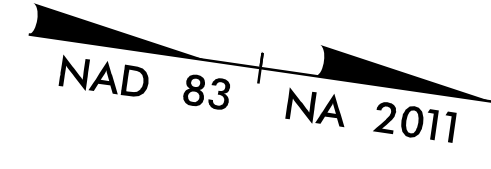
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A-0011C	TMP-45

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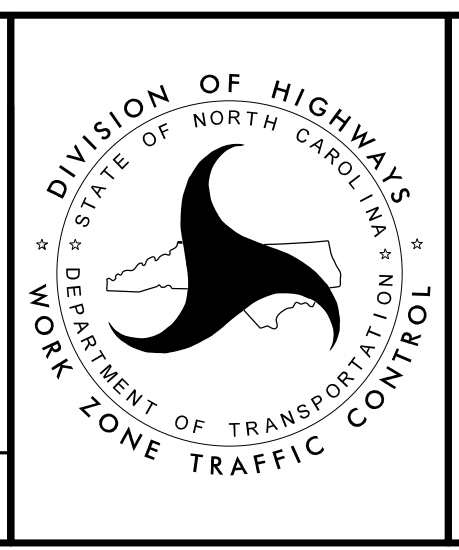
SECTION C-C
 -L- STA. 65+00.00

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 DATE: 9/4/2019

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Nicholas E. Burns
 77B48AE4A00AEB

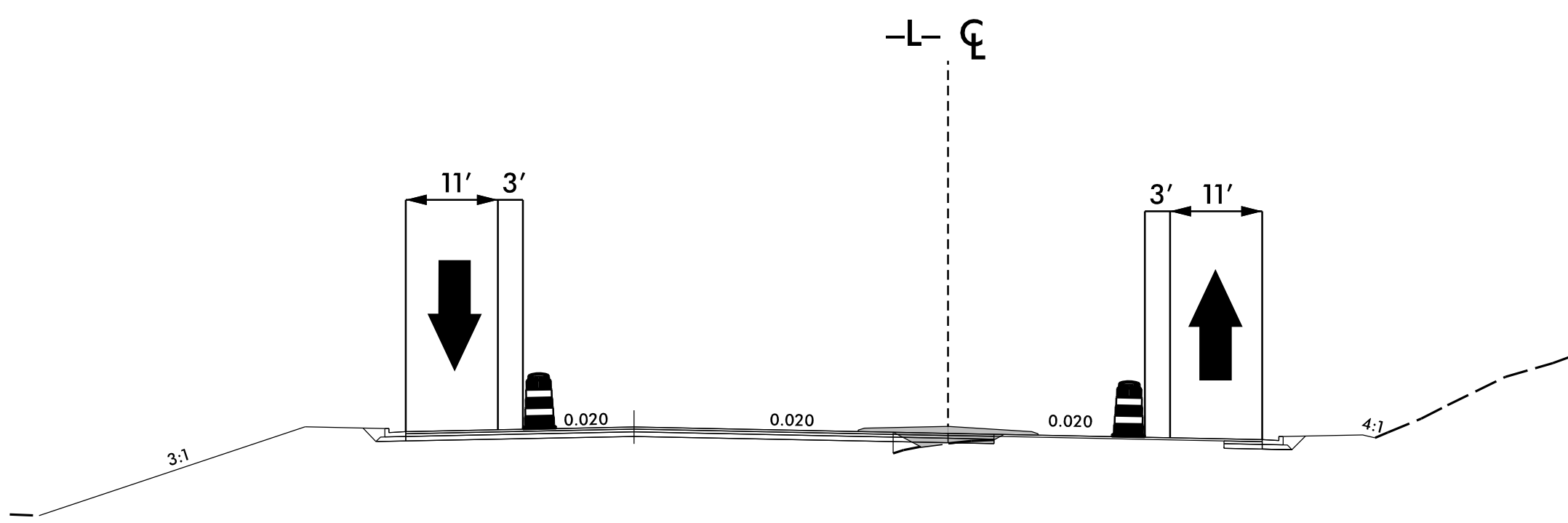
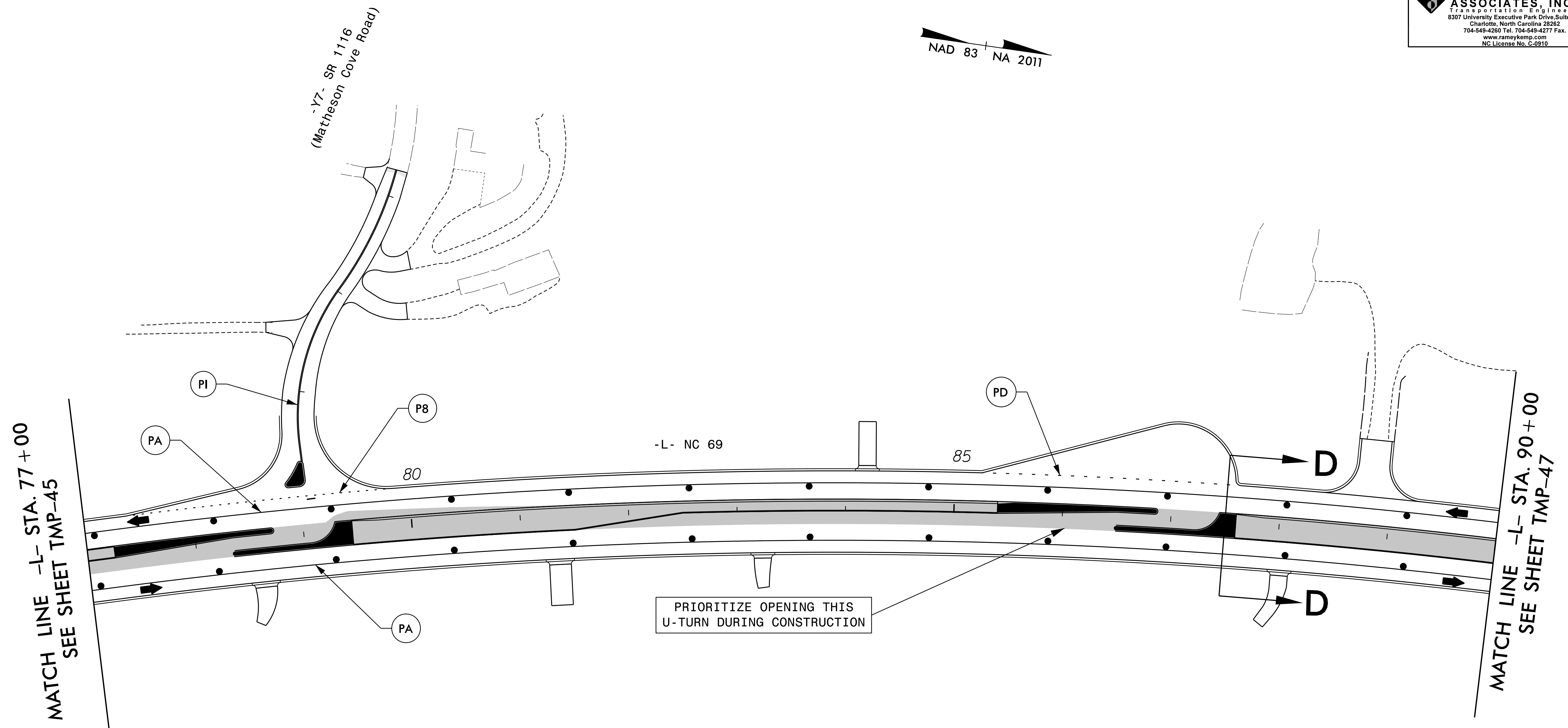
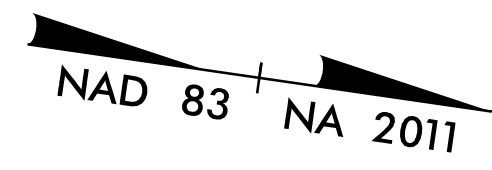
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 PHASE III**

PROJ. REFERENCE NO.	SHEET NO.
A-0011C	TMP-46

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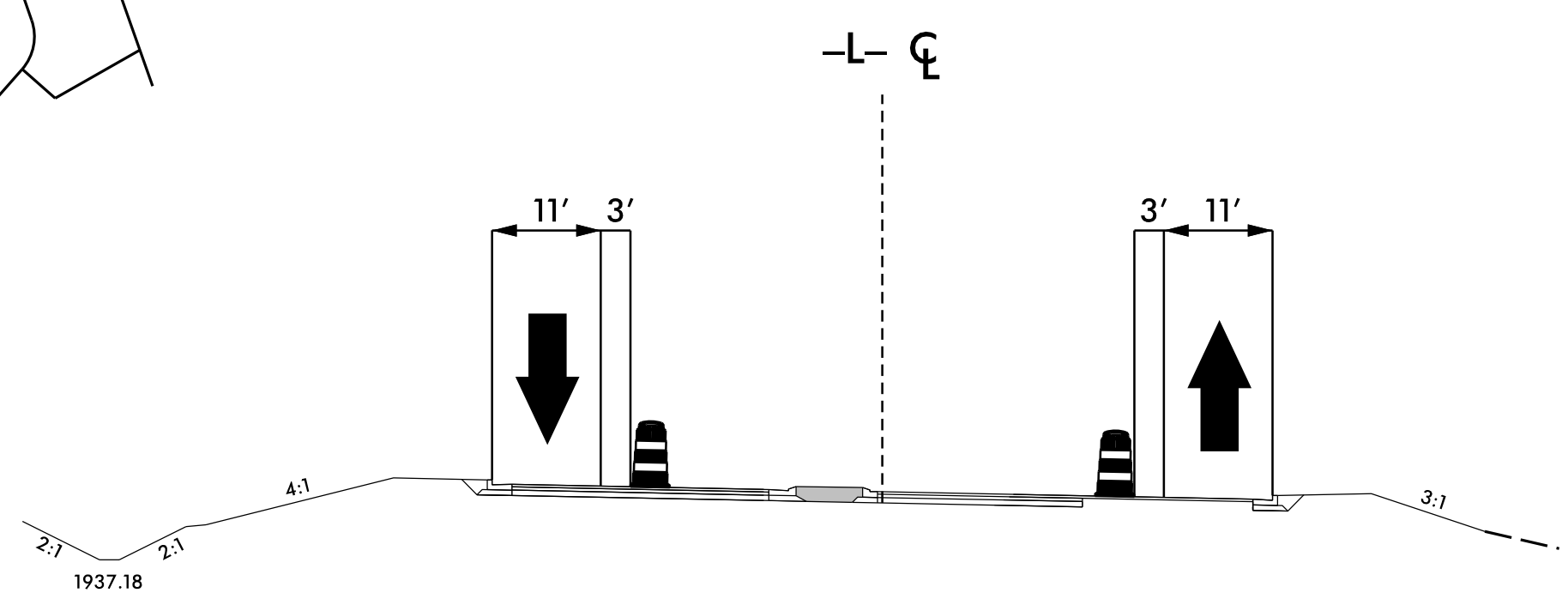
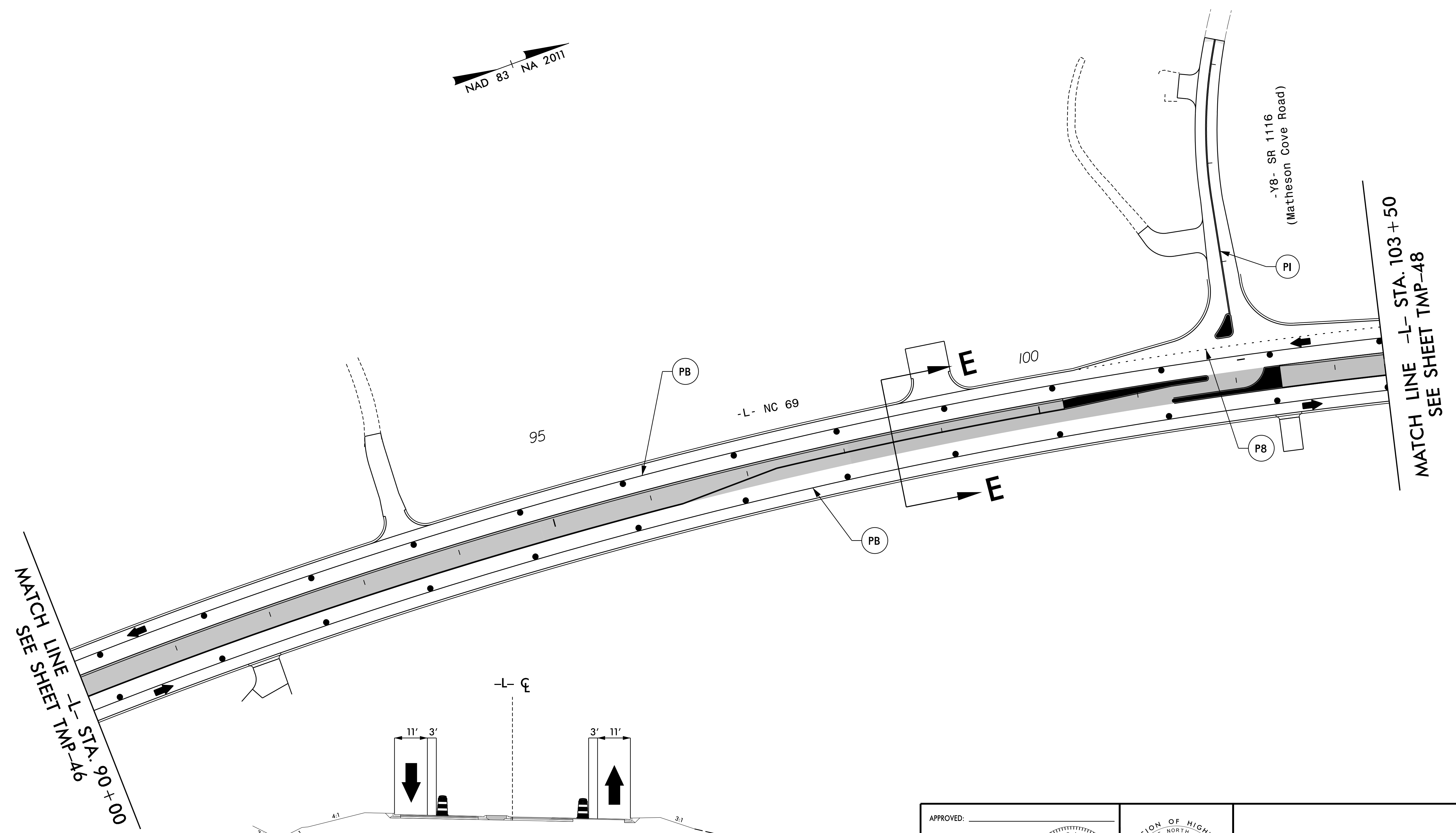
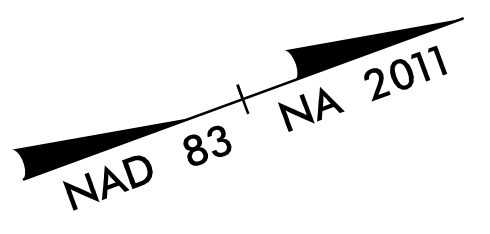


SECTION D-D
 -L- STA. 87+50.00

APPROVED: _____			<p>TEMPORARY TRAFFIC CONTROL PHASE III</p>
DATE: 9/4/2019			
<p>DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED</p>			

PROJ. REFERENCE NO. A-0011C	SHEET NO. TMP-47
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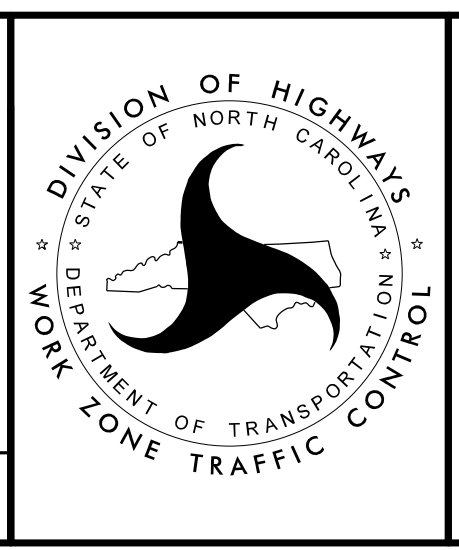
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SECTION E-E
 -L- STA. 98+50.00

APPROVED: _____
 DATE: 9/4/2019

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 DocuSigned by:
 Nicholas E. Burns
 77B4BAE4A004E8

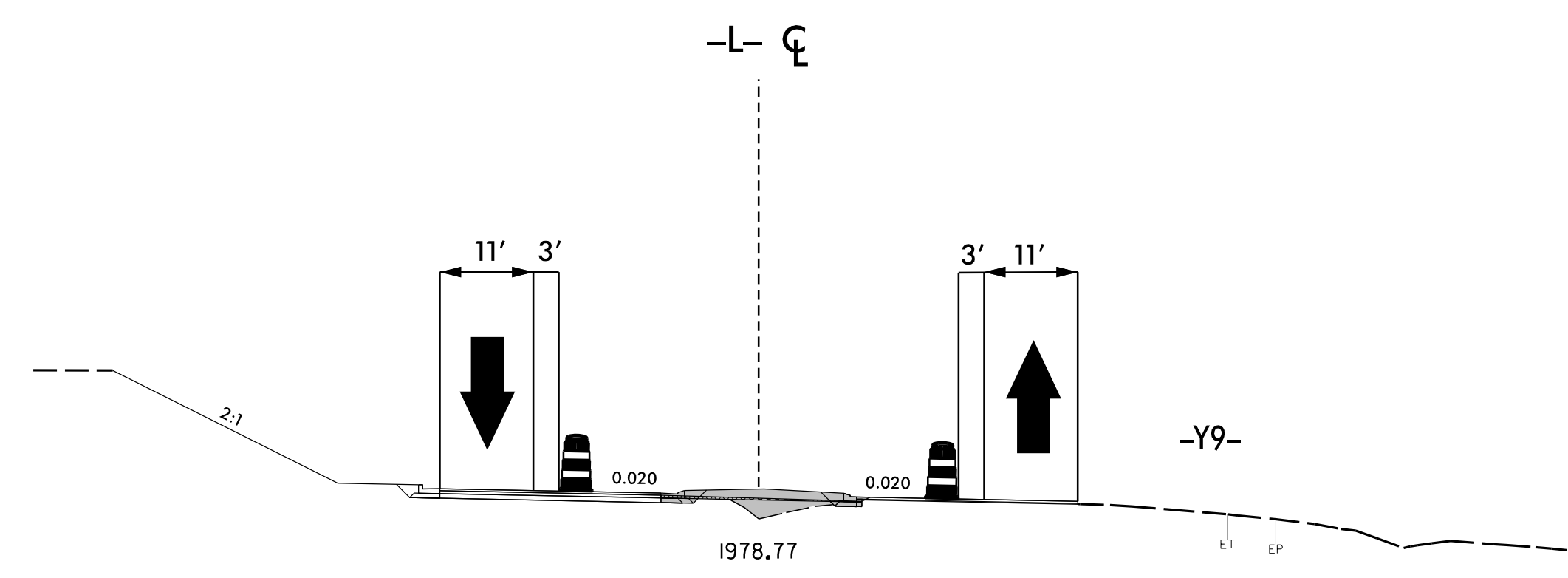
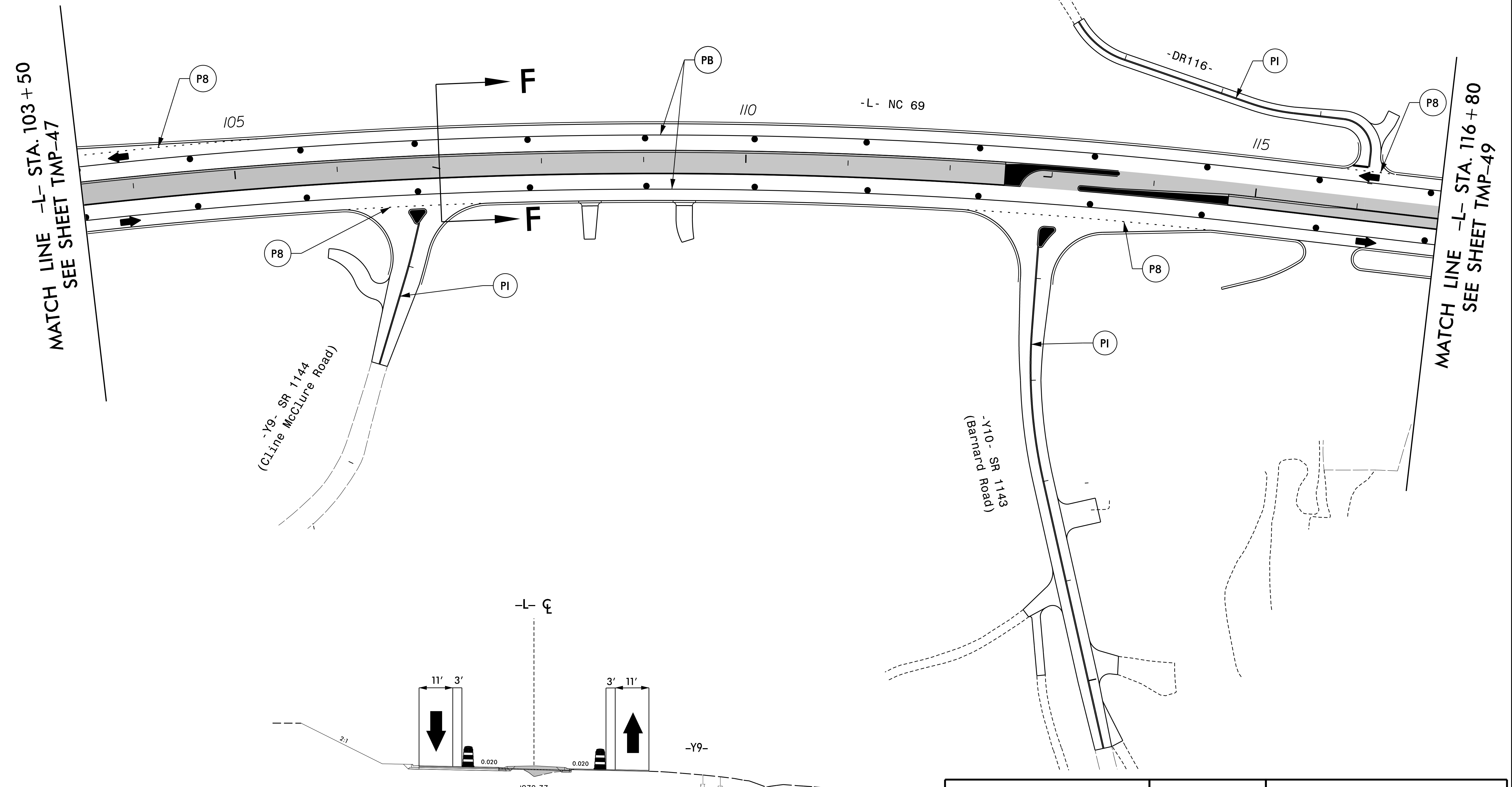
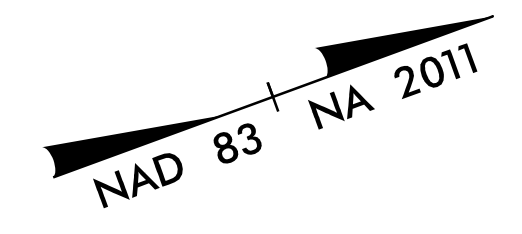


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A-0011C	TMP-48

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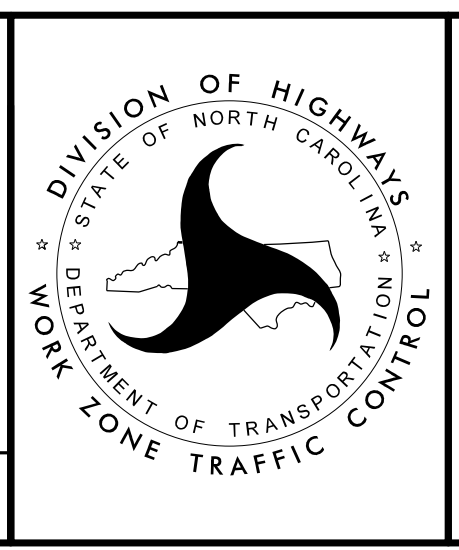


SECTION F-F
 -L- STA. 107 + 00.00

APPROVED: _____
 DATE: 9/4/2019

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 77848AE4004E8

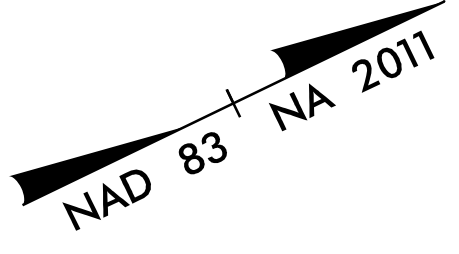


TEMPORARY TRAFFIC CONTROL PHASE III

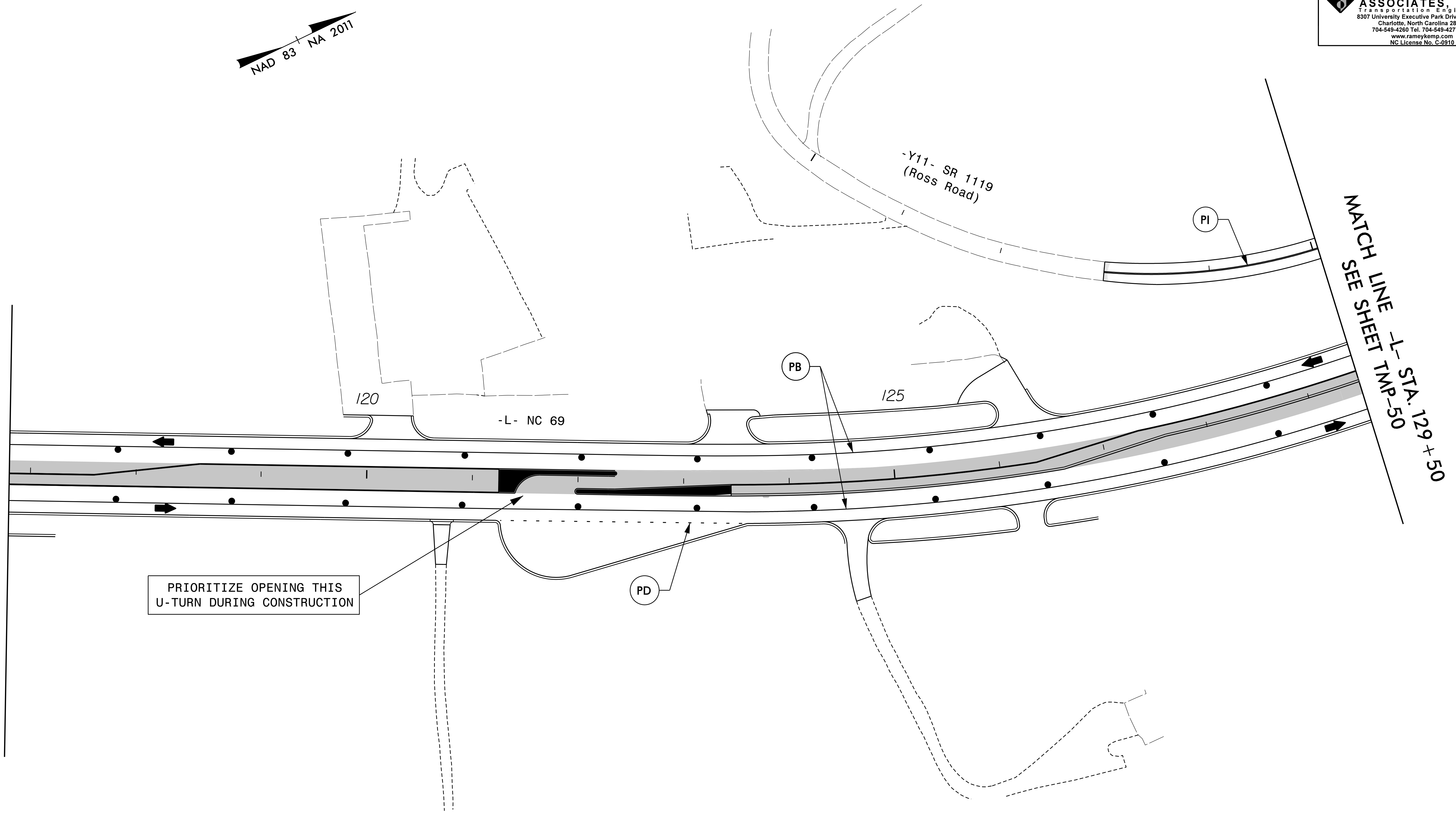
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A-0011C	TMP-49

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MATCH LINE -L- STA. 116+80
SEE SHEET TMP-48



PRIORITIZE OPENING THIS U-TURN DURING CONSTRUCTION

APPROVED: _____
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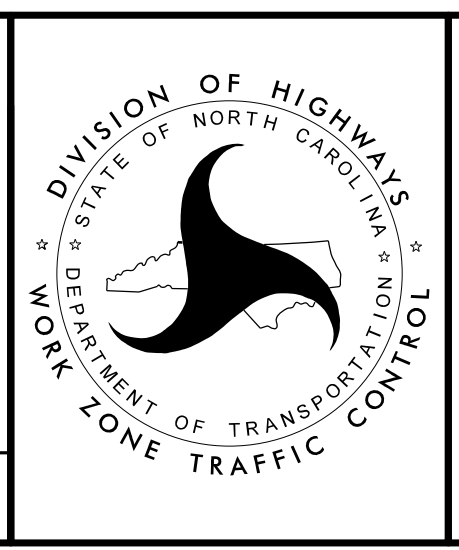
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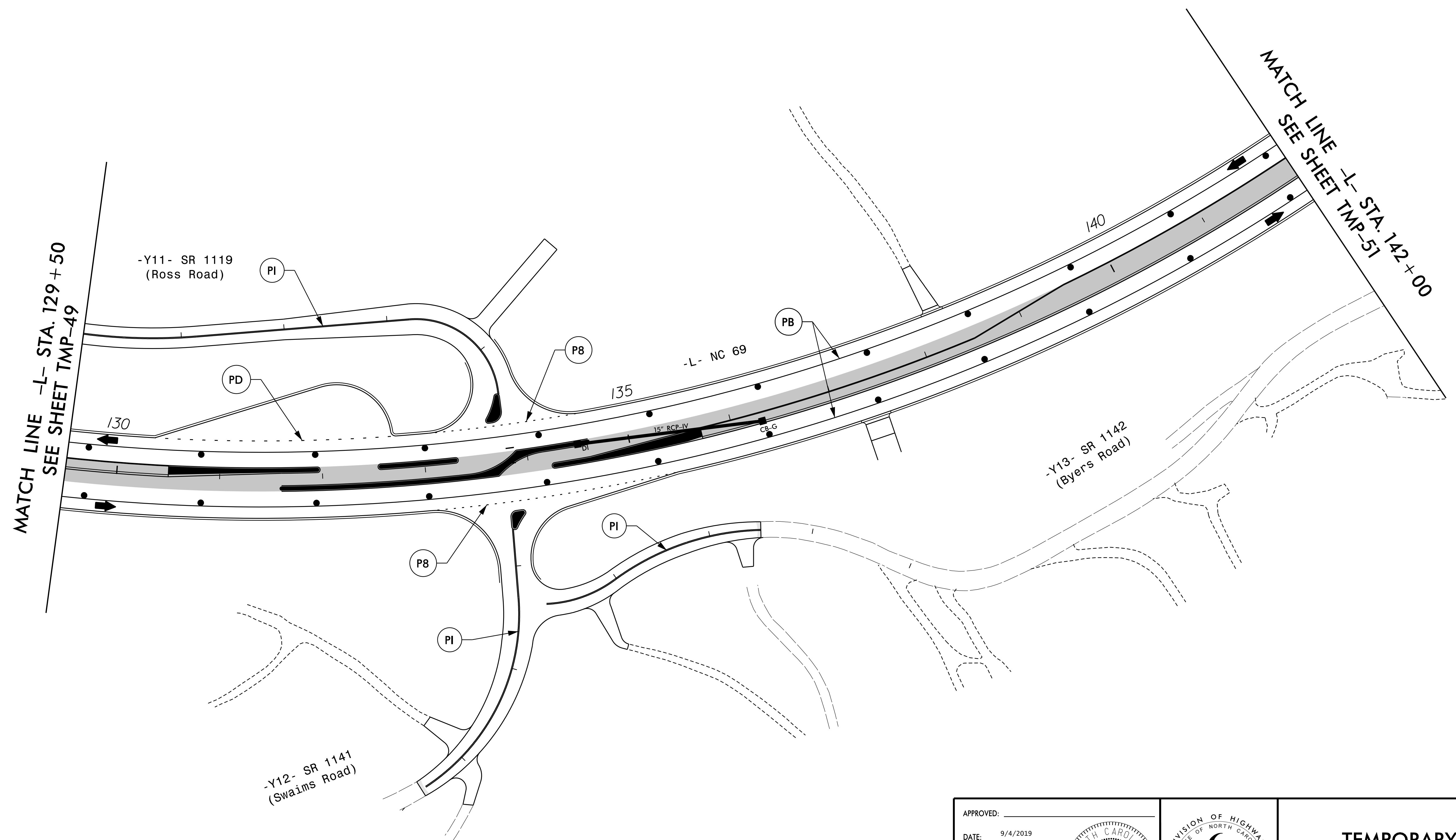
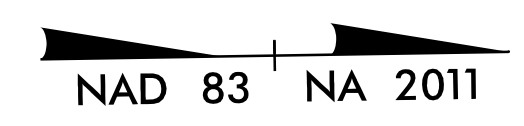
SEAL
 NORTH CAROLINA
 PROFESSIONAL ENGINEER
 SEAL 046300
 NICHOLAS E. BURNS

778484E4400A8E3

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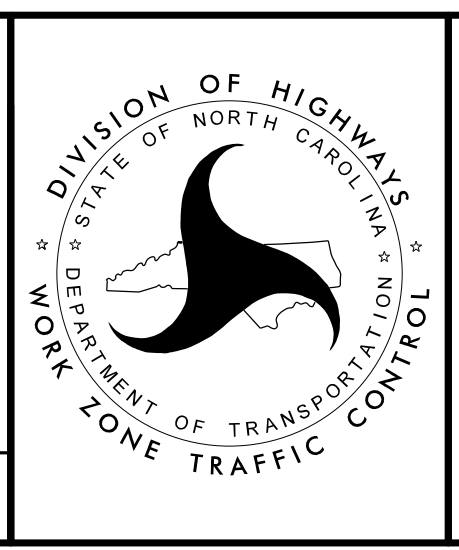


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 PHASE III**



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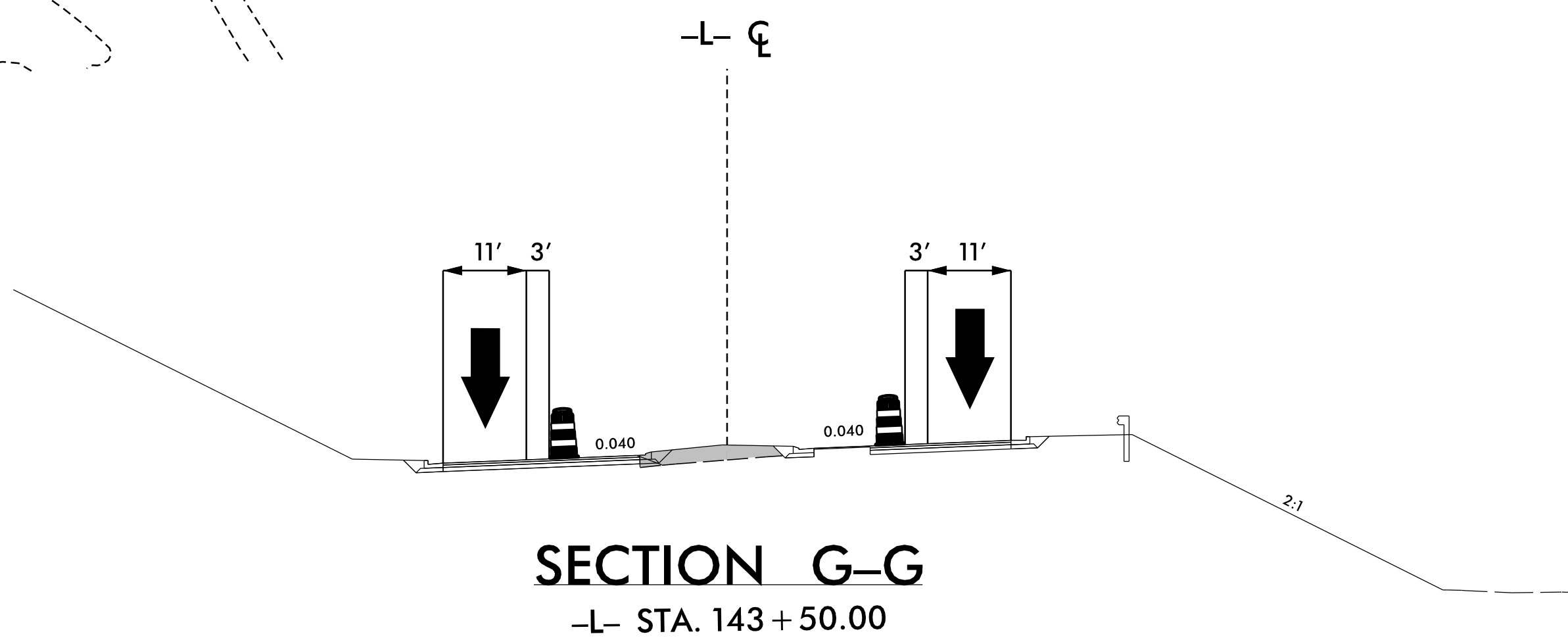
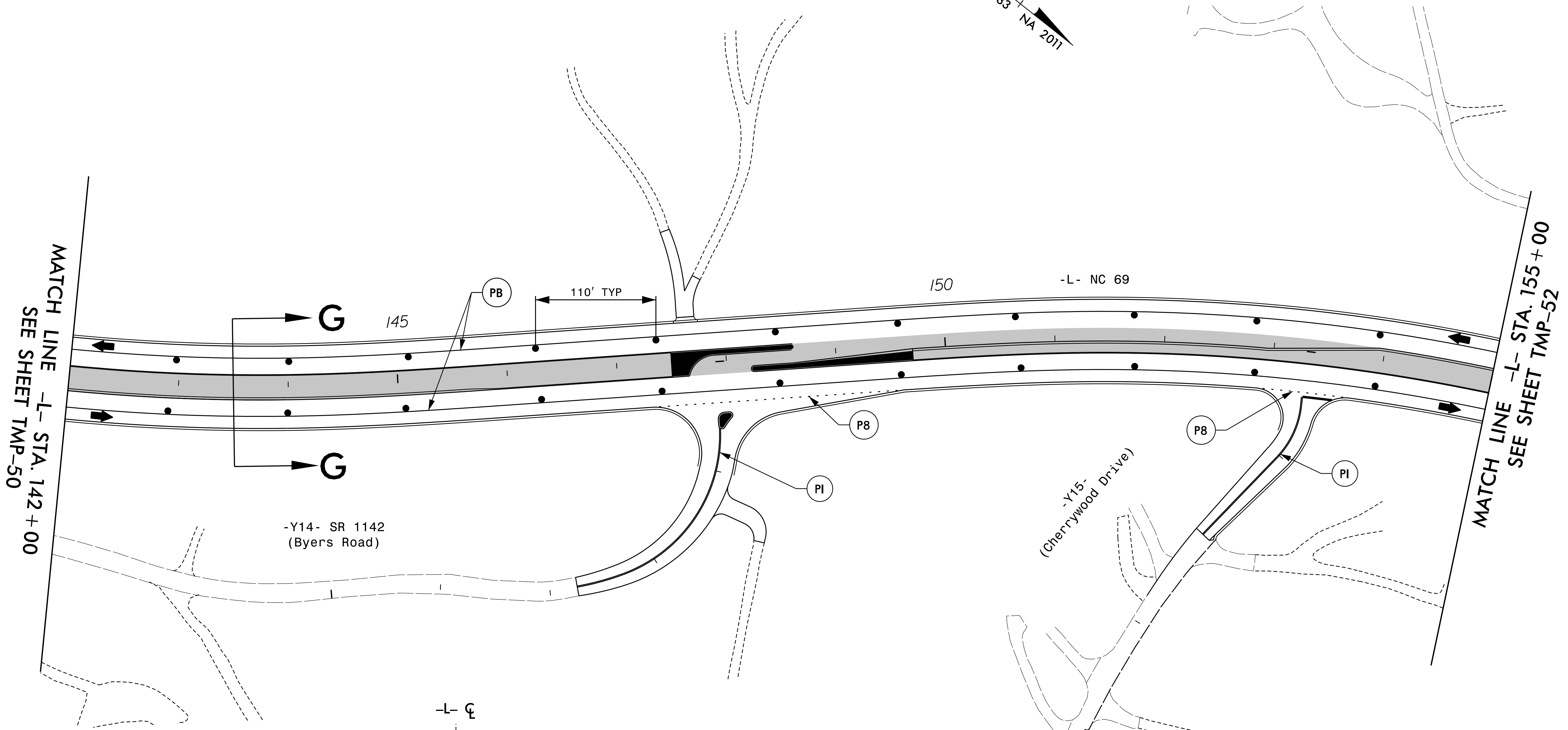
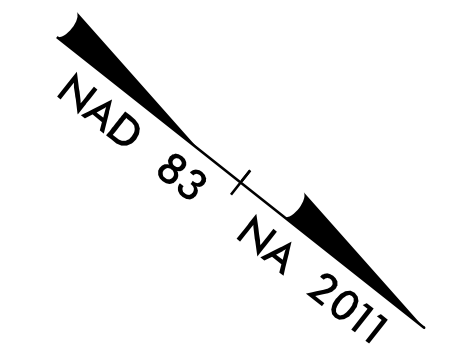


TEMPORARY TRAFFIC CONTROL PHASE III

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PROJ. REFERENCE NO.	SHEET NO.
A-0011C	TMP-51

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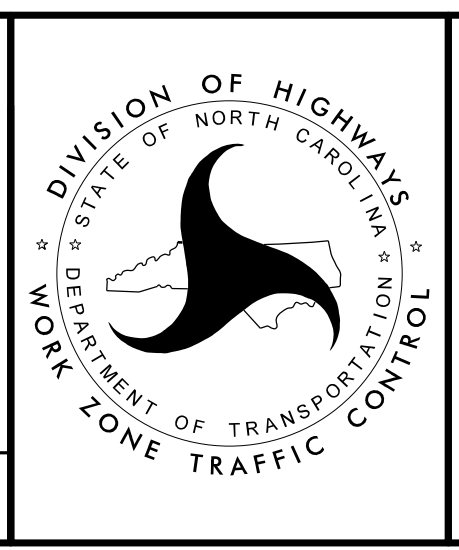
SECTION G-G
 -L- STA. 143 + 50.00

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 DATE: 9/4/2019

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 NORTH CAROLINA
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 SEAL
 046300
 NICHOLAS E. BURNS



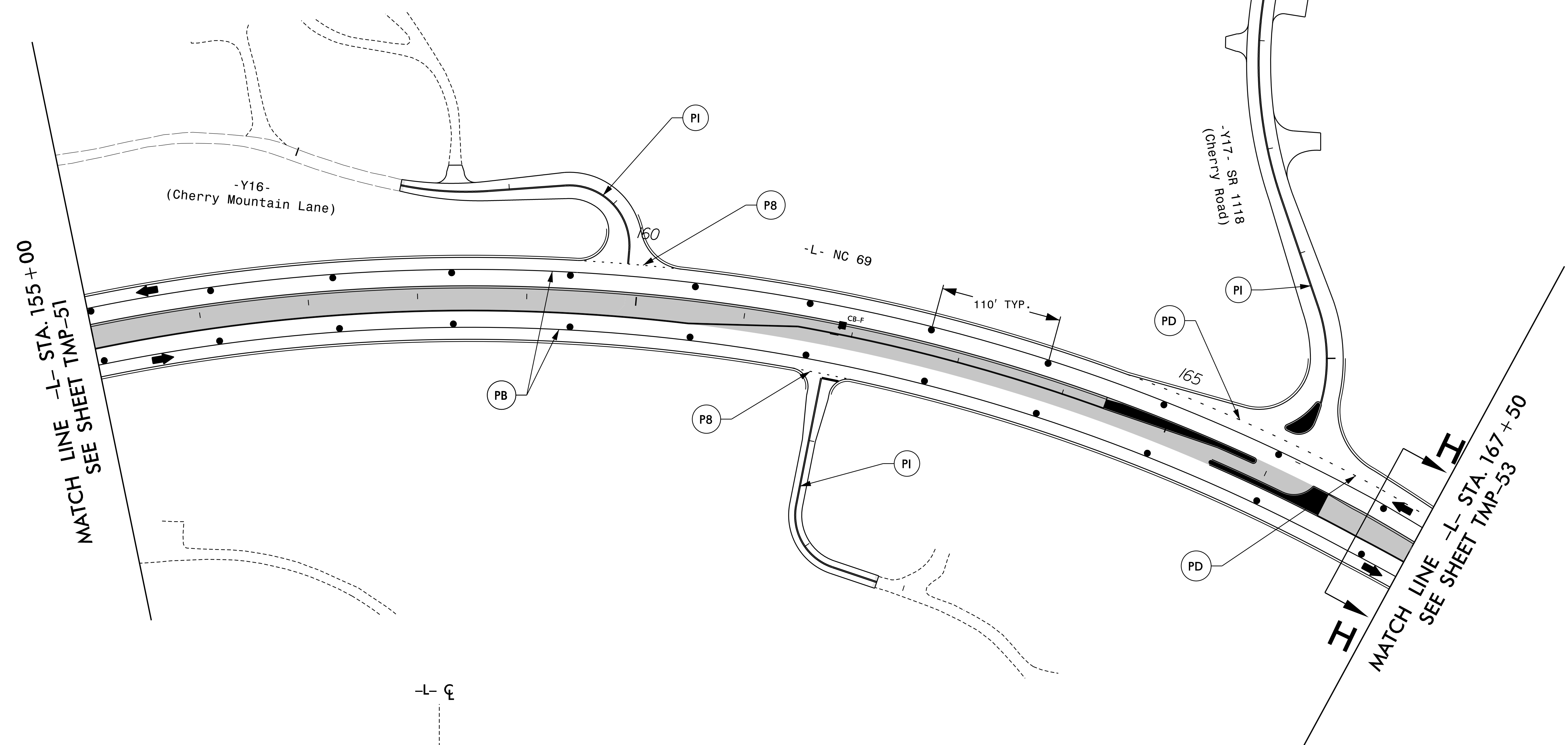
TEMPORARY TRAFFIC CONTROL PHASE III

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PROJ. REFERENCE NO.	SHEET NO.
A-0011C	TMP-52

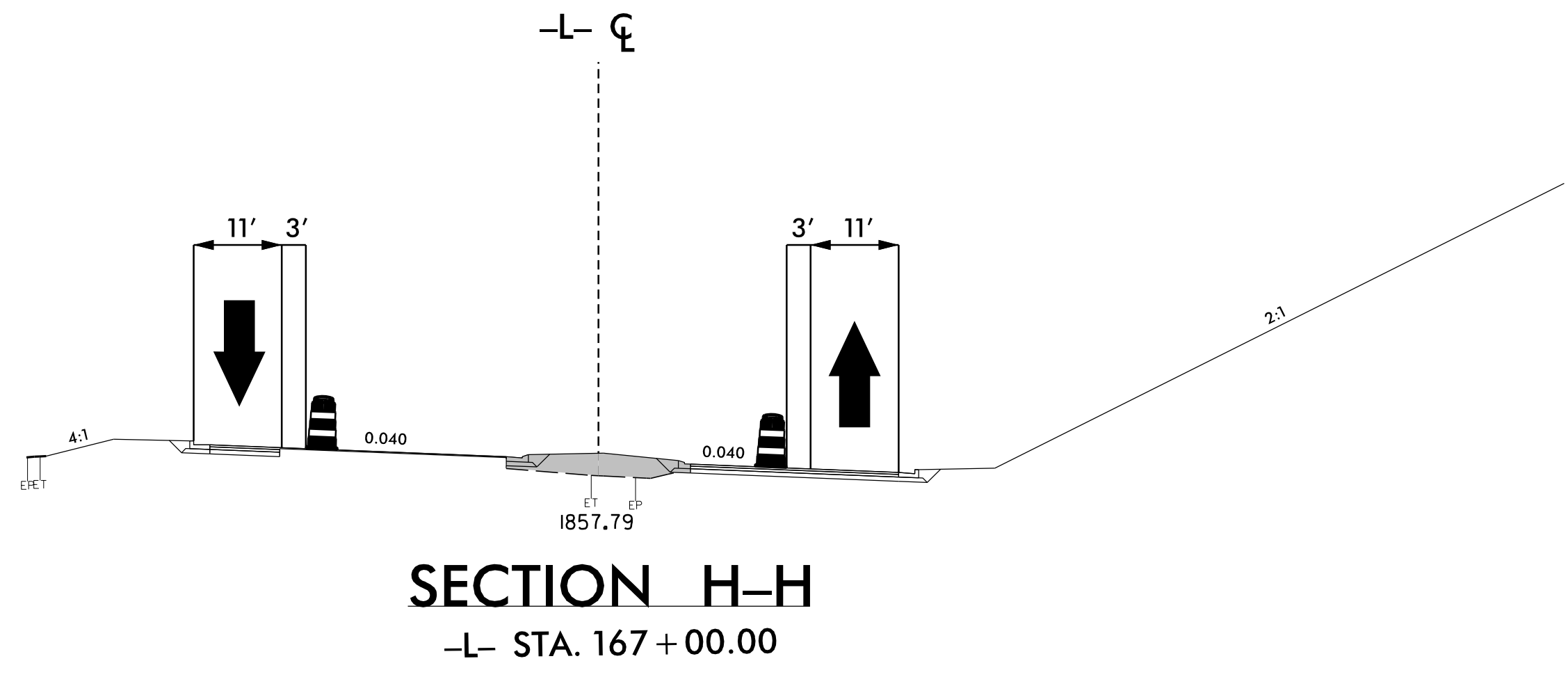
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NAD 83 NA 2011



MATCH LINE -L- STA. 155 + 00
SEE SHEET TMP-51

MATCH LINE -L- STA. 167 + 50
SEE SHEET TMP-53

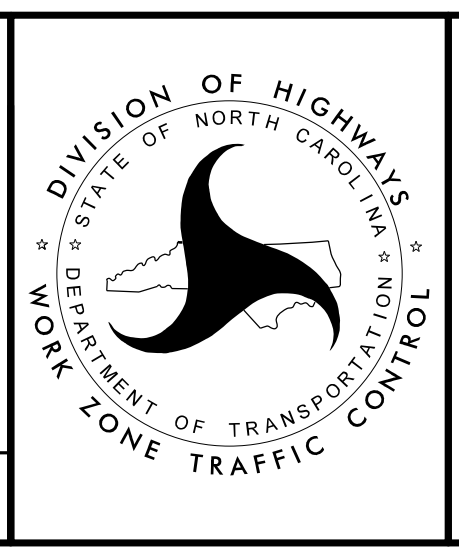


APPROVED: _____
 DATE: 9/4/2019

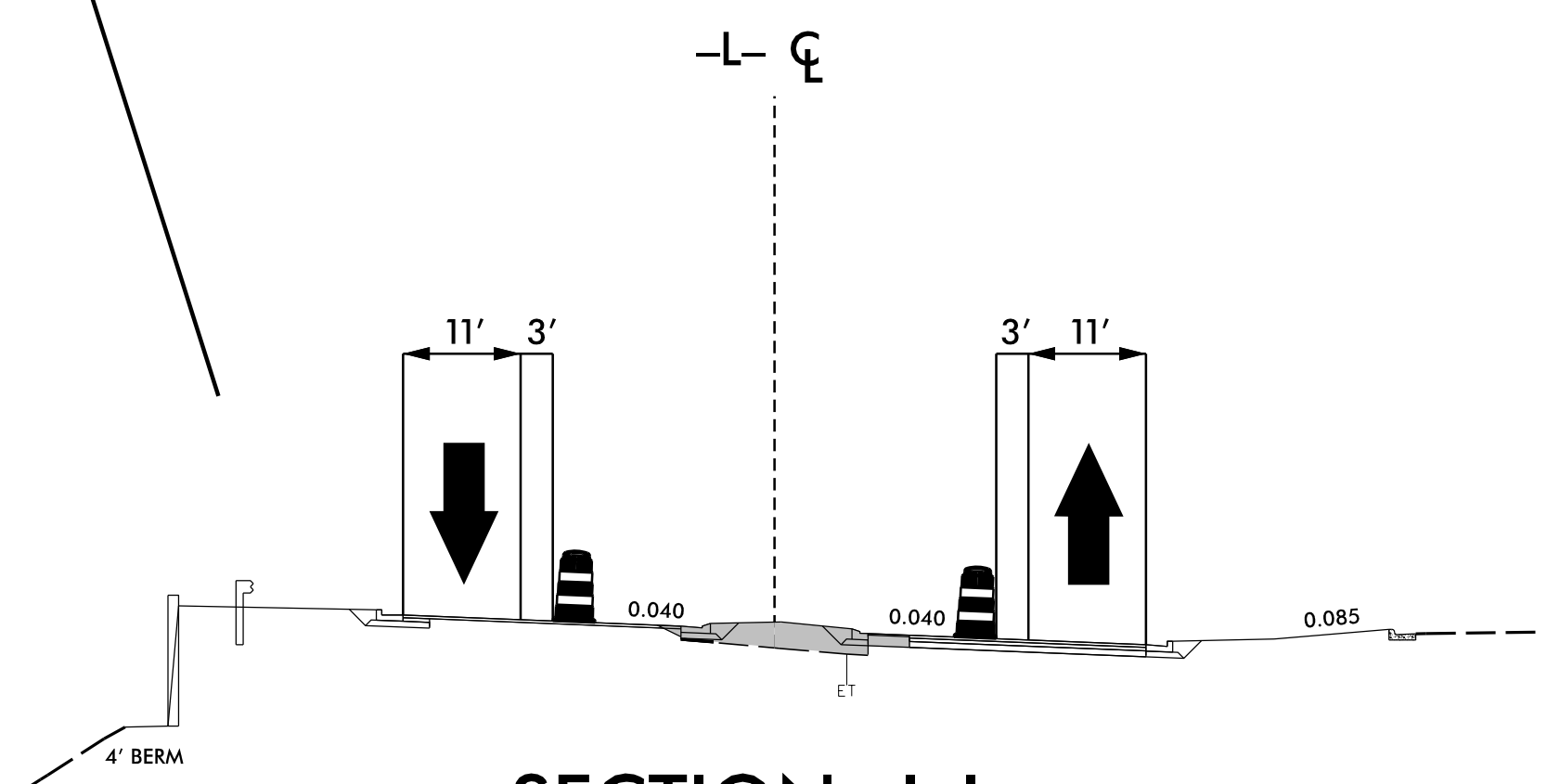
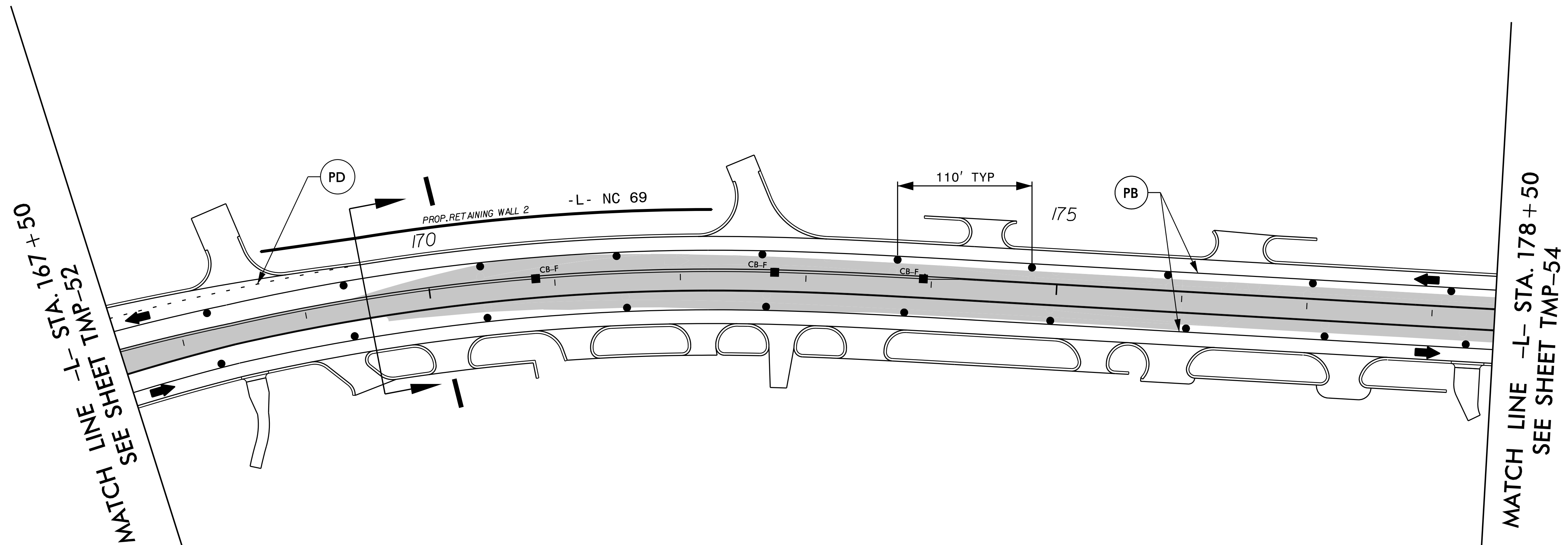
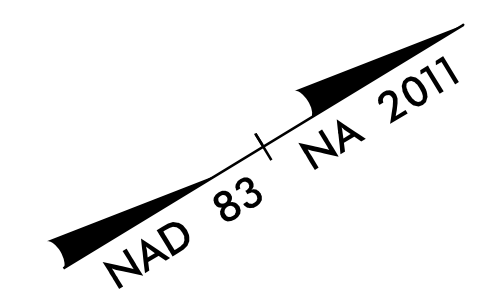
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 DocuSigned by:
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 PHASE III**



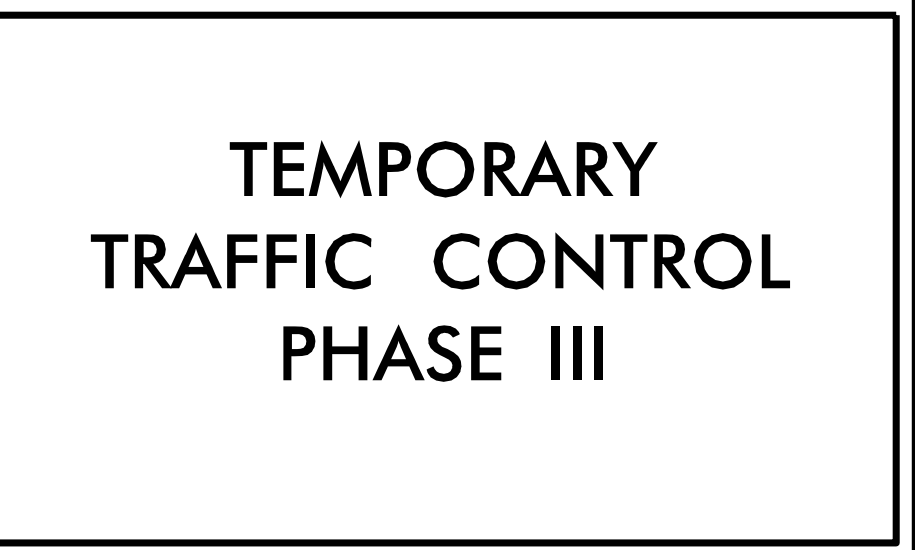
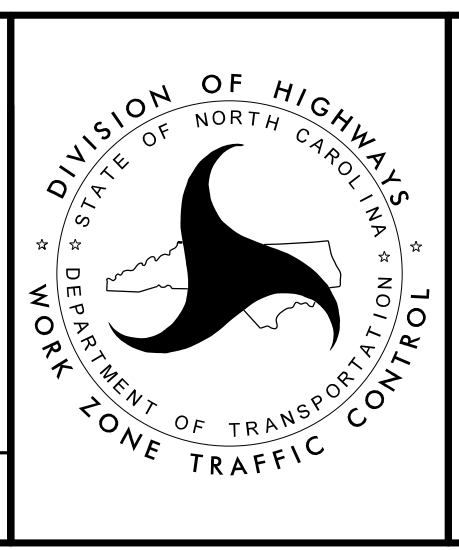
SECTION I-I
 -L- STA. 169+50.00

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 DATE: 9/4/2019

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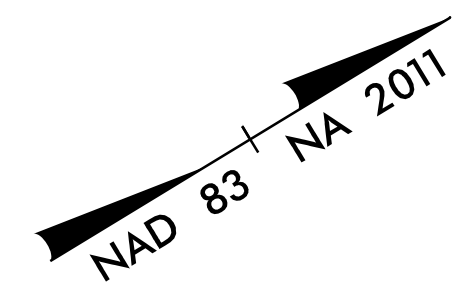
TEMPORARY TRAFFIC CONTROL PHASE III



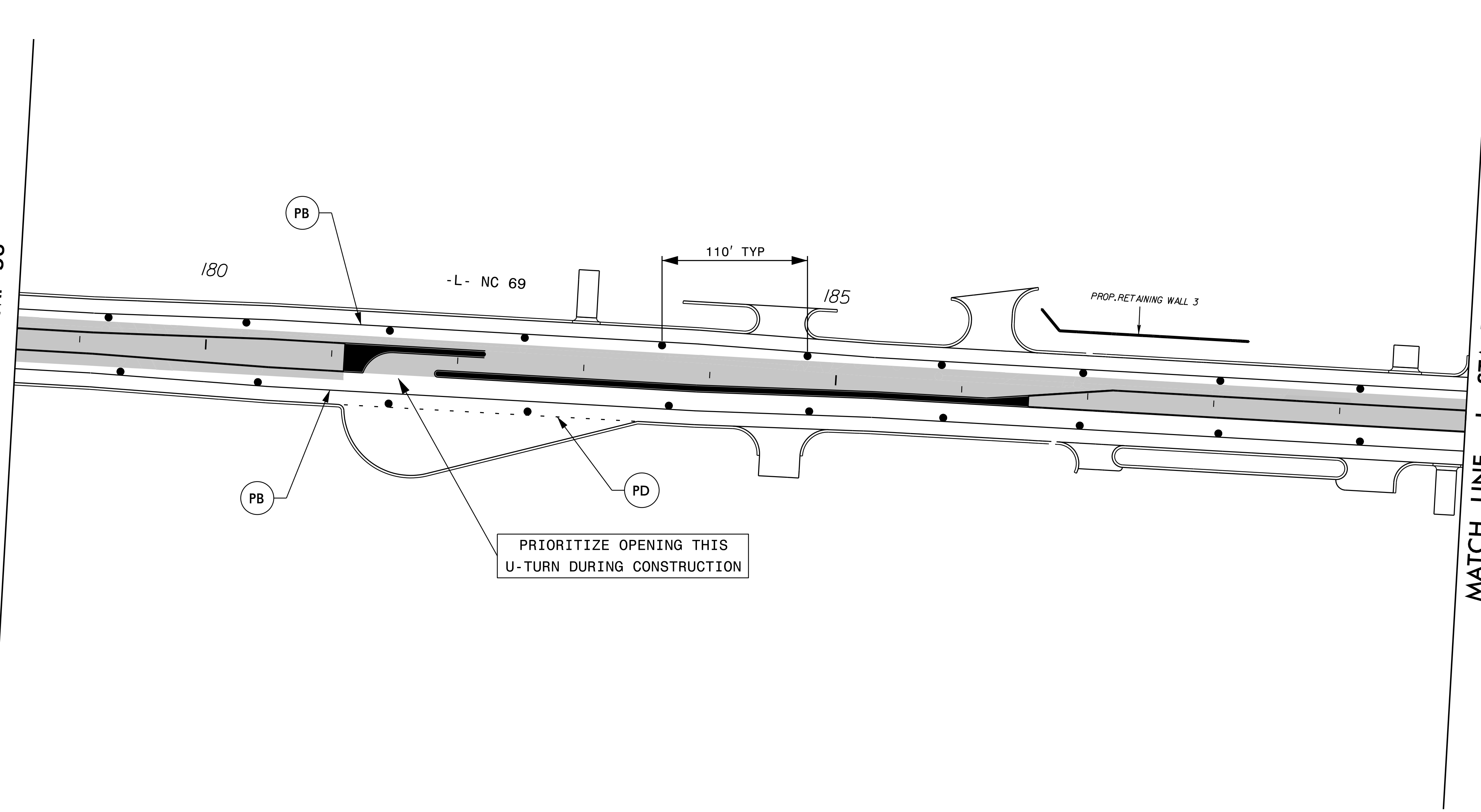
TEMPORARY TRAFFIC CONTROL PHASE III

PROJ. REFERENCE NO.	SHEET NO.
A-0011C	TMP-54

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MATCH LINE -L- STA. 178+50
 SEE SHEET TMP-53



MATCH LINE -L- STA. 190+00
 SEE SHEET TMP-55

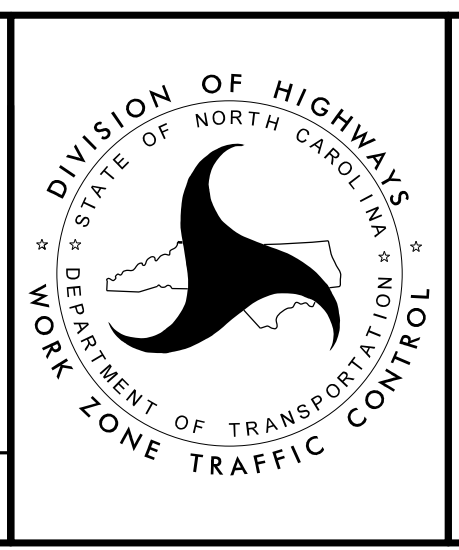
APPROVED: _____
 DATE: 9/4/2019

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 NORTH CAROLINA
 PROFESSIONAL ENGINEER
 SEAL 046300
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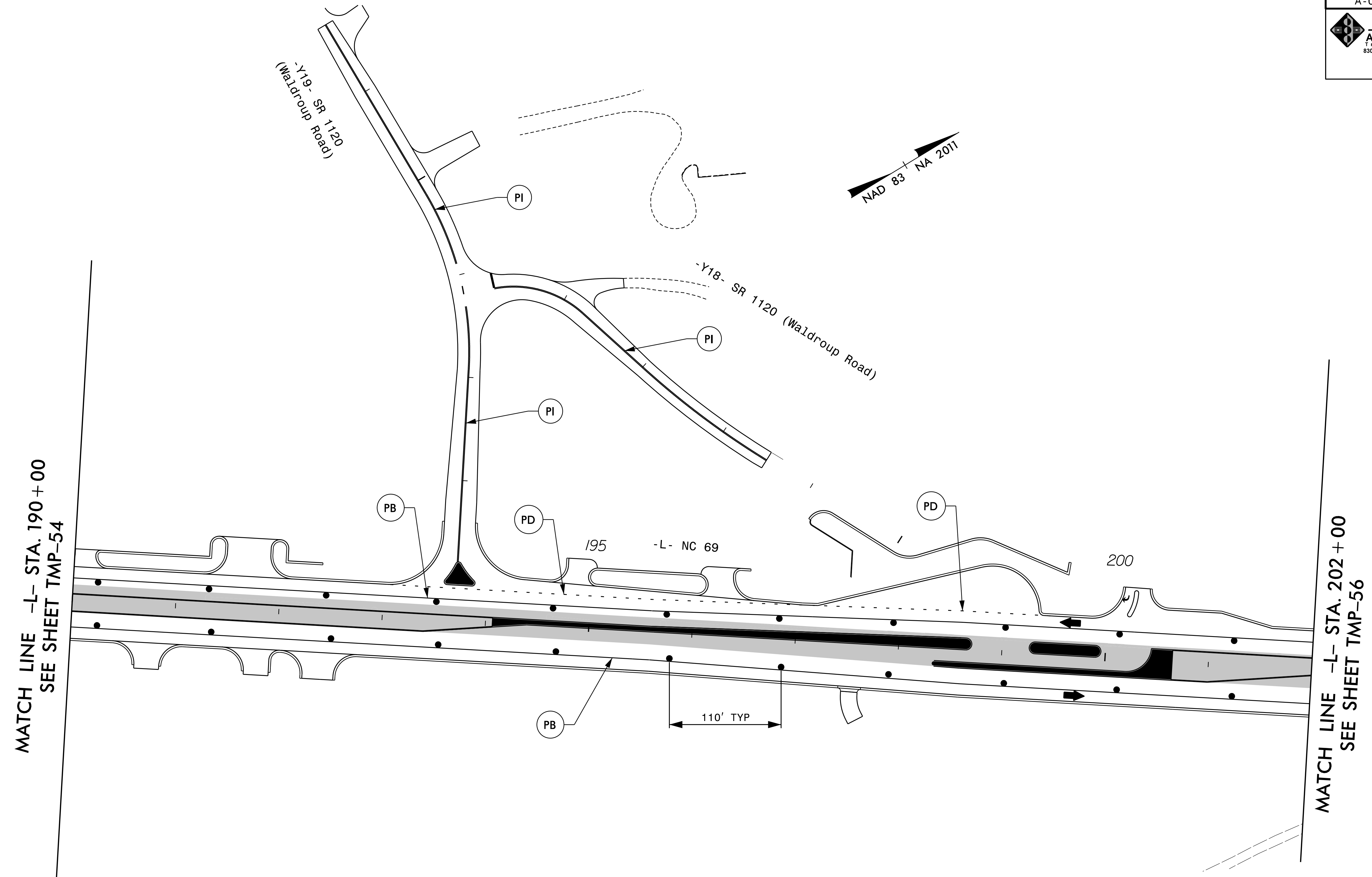
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 PHASE III**

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A-0011C	TMP-55

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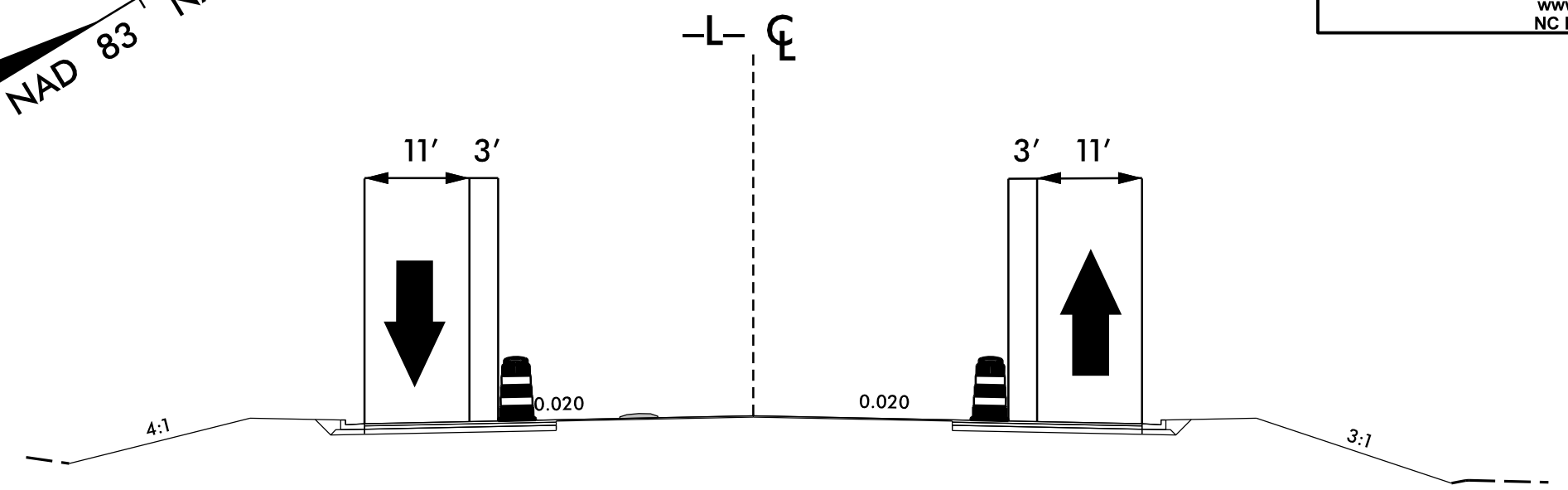
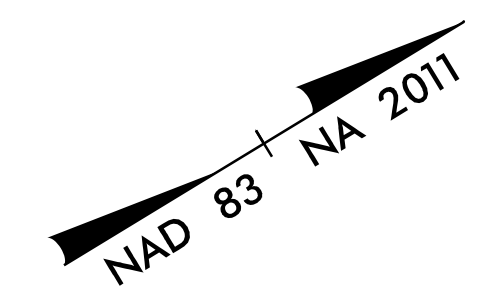


APPROVED: _____ DATE: 9/4/2019 SEAL DocuSigned by: <i>Nicholas E. Burns</i> 77B4BAE400A6E8			<p align="center">TEMPORARY TRAFFIC CONTROL PHASE III</p>
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PROJ. REFERENCE NO.	SHEET NO.
A-0011C	TMP-56

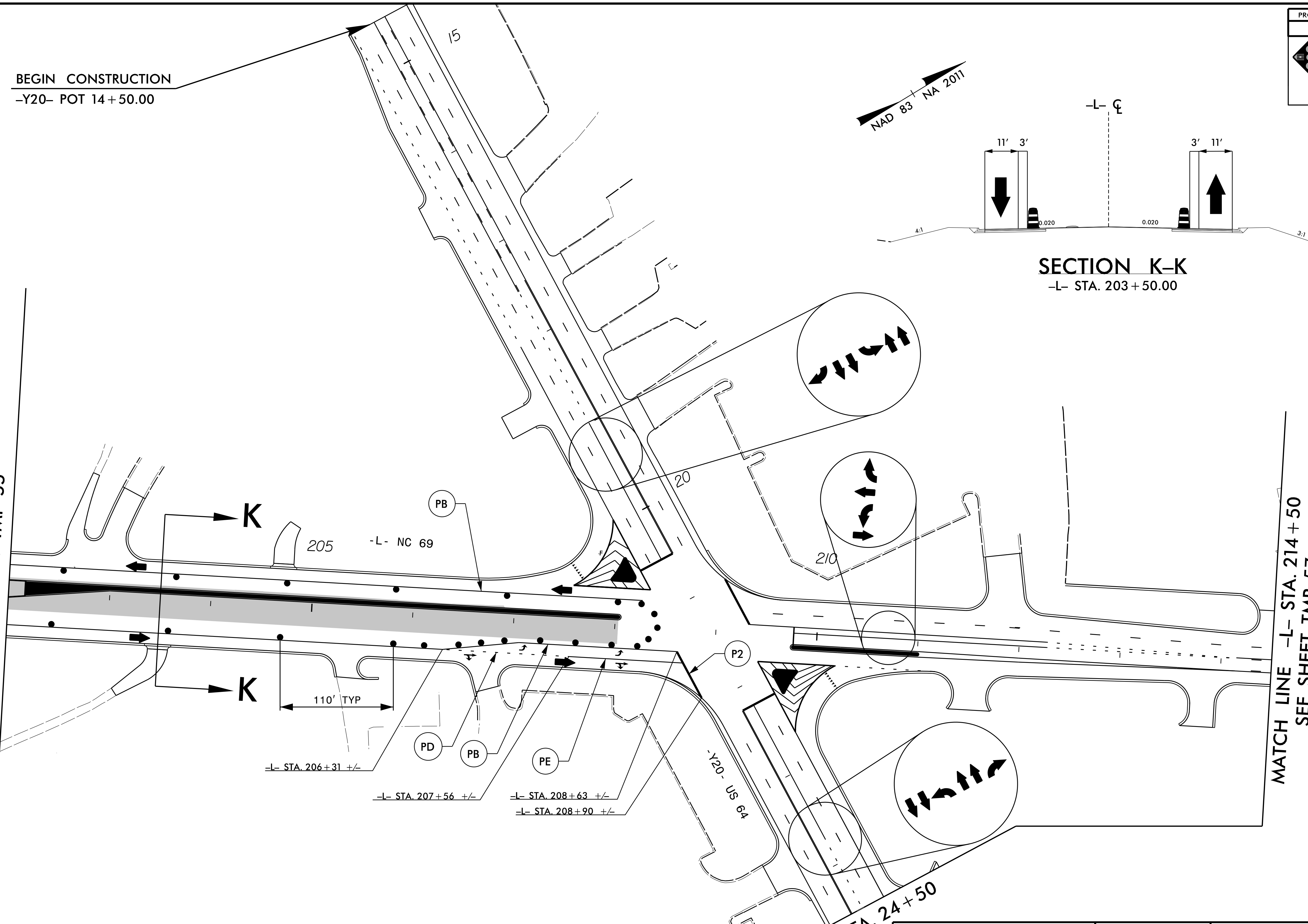
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BEGIN CONSTRUCTION
-Y20- POT 14 + 50.00



SECTION K-K
-L- STA. 203 + 50.00

MATCH LINE -L- STA. 202 + 00
SEE SHEET TMP-55



MATCH LINE -L- STA. 214 + 50
SEE SHEET TMP-57

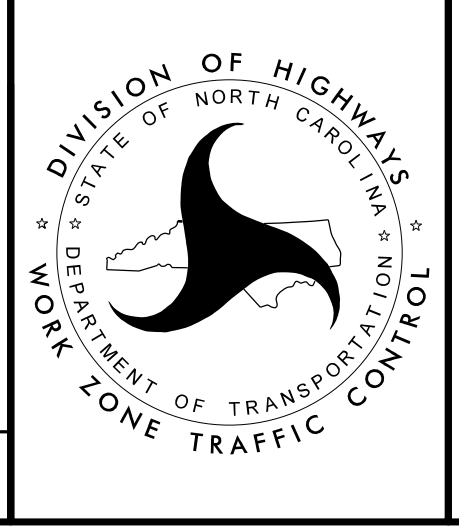
MATCH LINE -Y20- STA. 24 + 50
SEE SHEET TMP-58

APPROVED: _____
 DATE: 9/11/2019


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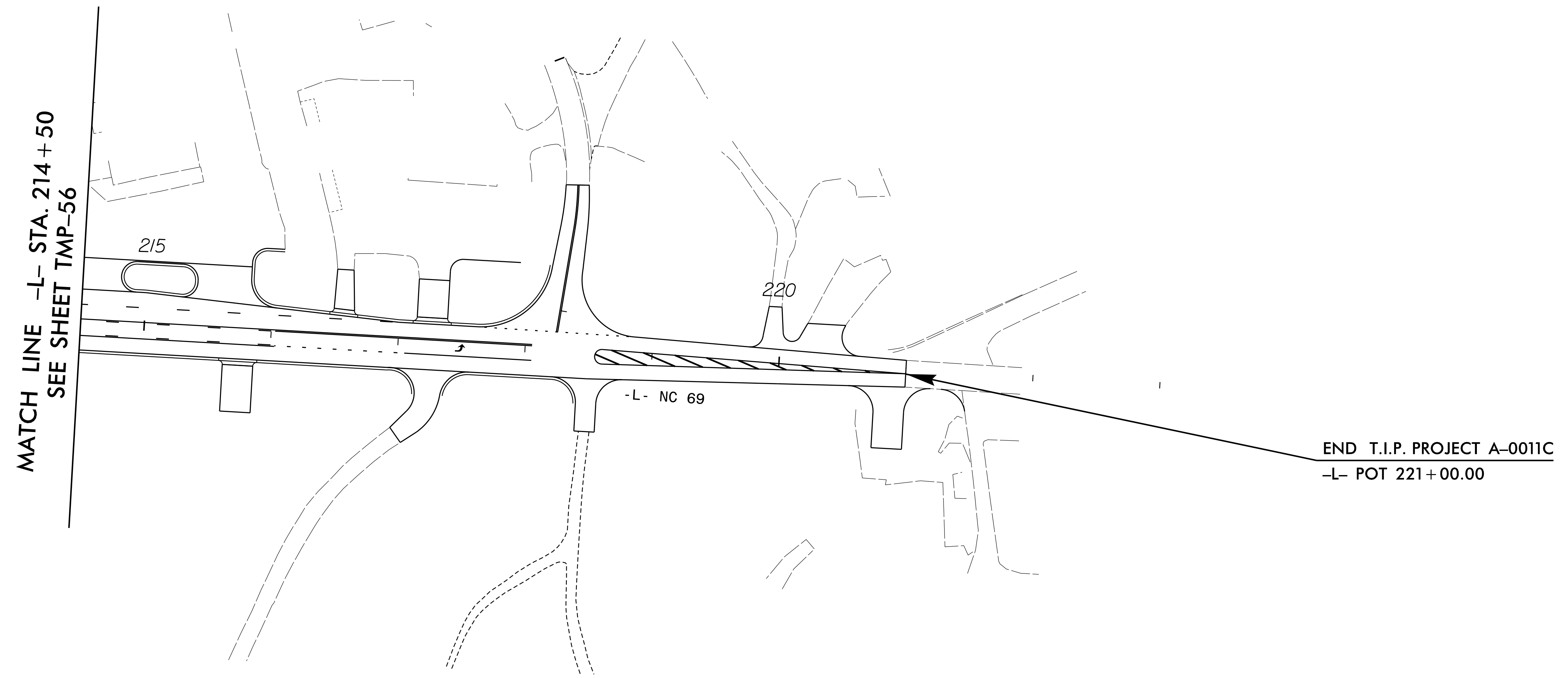
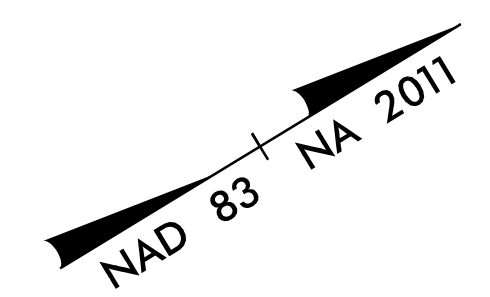
DocuSigned by:
 Nicholas E. Burns
 77868FA002A6E8

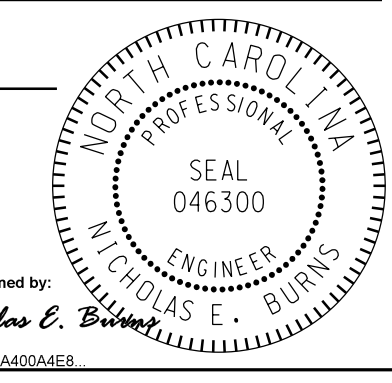
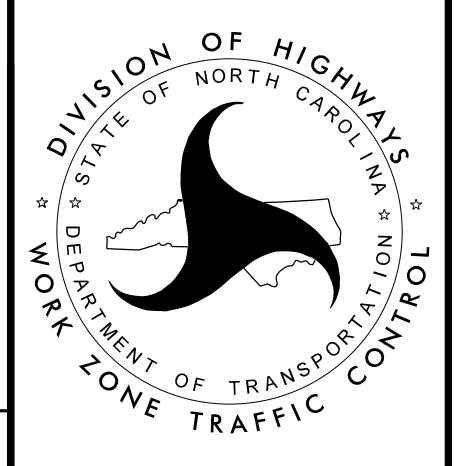
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PHASE III**

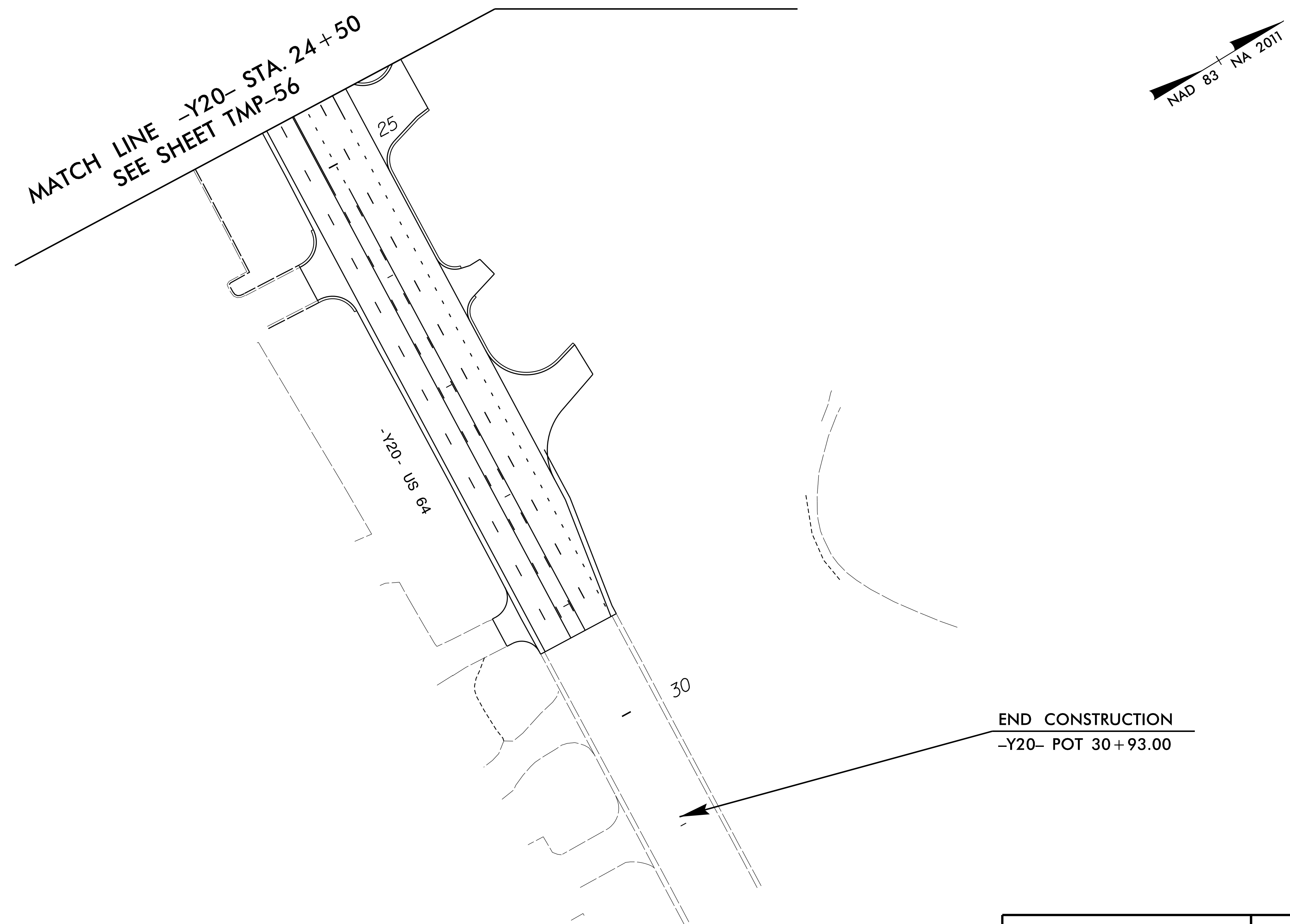
PROJ. REFERENCE NO.	SHEET NO.
A-0011C	TMP-57
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A-0011C	TMP-58

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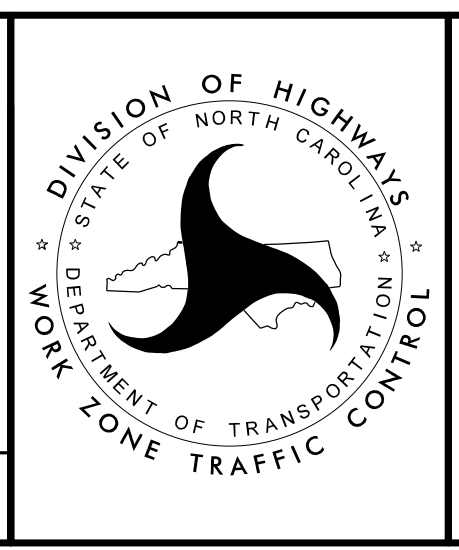
END CONSTRUCTION
 -Y20- POT 30+93.00

APPROVED: _____
 DATE: 9/4/2019

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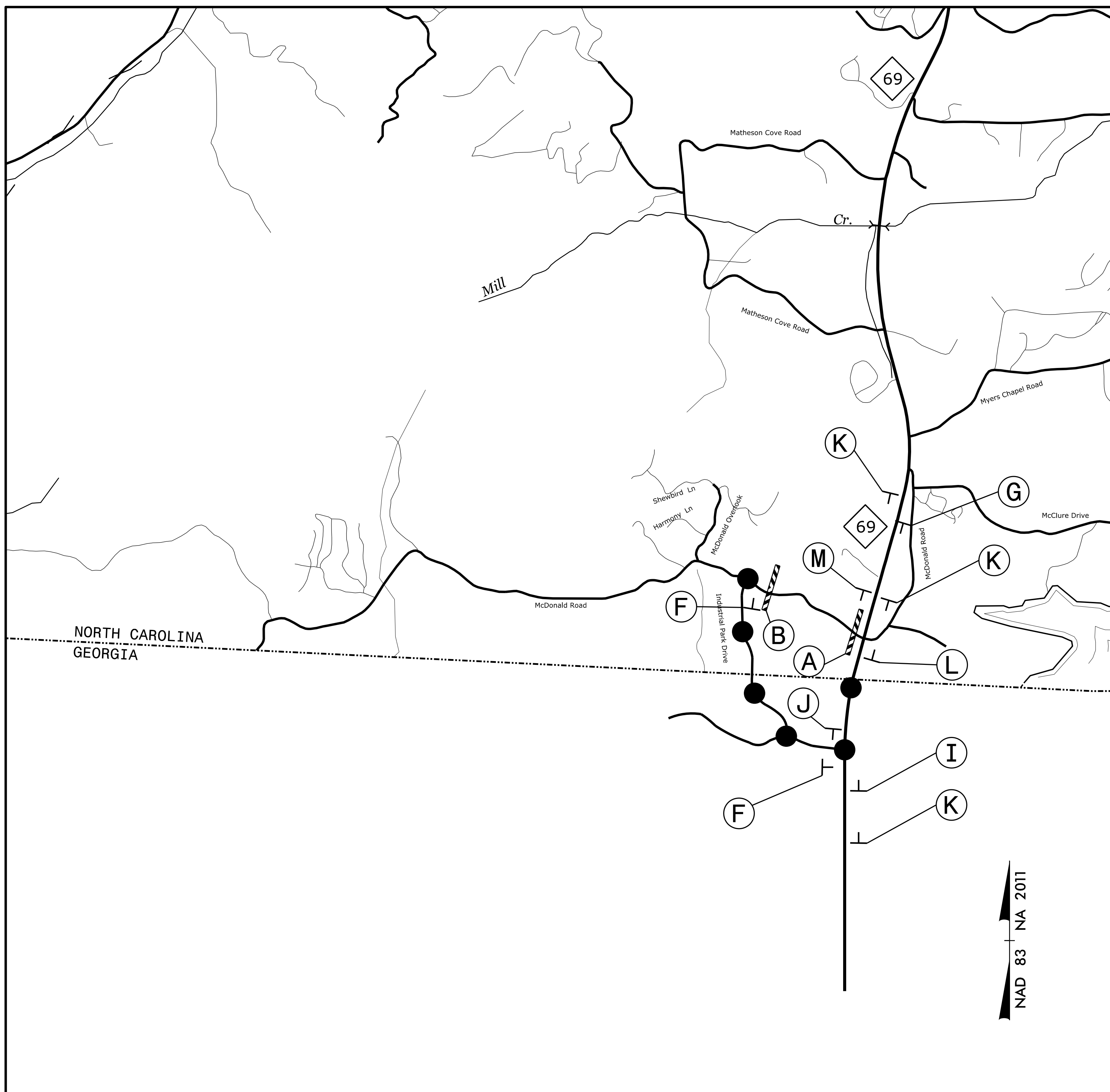


**TEMPORARY
 TRAFFIC CONTROL
 PHASE III**

**DIVISION OF HIGHWAYS
 STATE OF NORTH CAROLINA
 DEPARTMENT OF TRANSPORTATION
 WORK ZONE TRAFFIC CONTROL**

-Y1- DETOUR - MCDONALD RD VIA INDUSTRIAL PARK DR

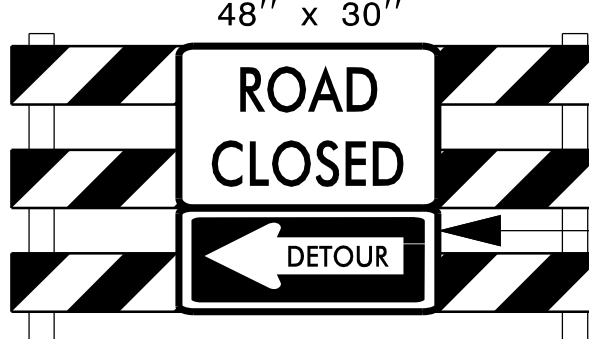
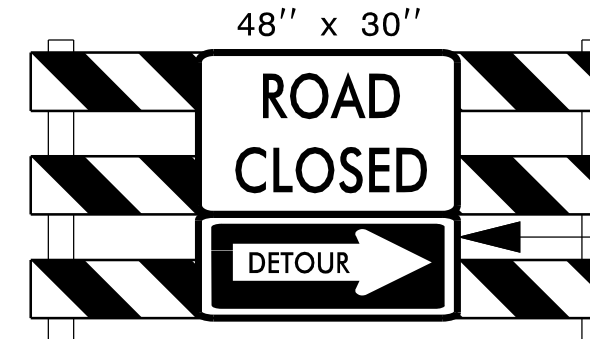
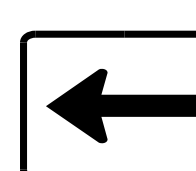
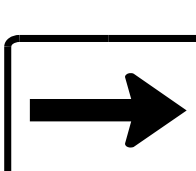
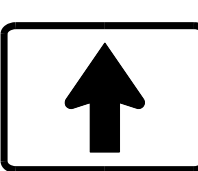
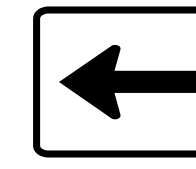
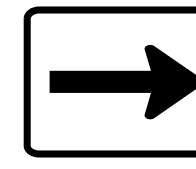
PROJ. REFERENCE NO. A-0011C	SHEET NO. TMP-59
 RAMEY KEMP ASSOCIATES, INC. Transportation Engineers 8307 University Executive Park Drive, Suite 260 Charlotte, North Carolina 28262 704-549-4260 Tel. 704-549-4277 Fax. www.rameykemp.com NC License No. C-9910	

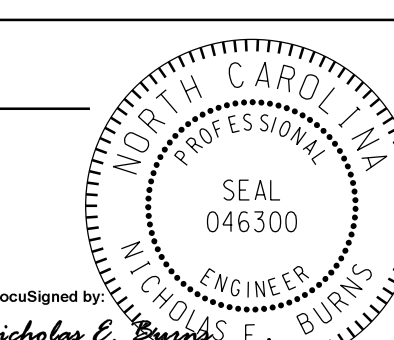



PROPOSED DETOUR

DETOUR ROUTE ●●●●

DETOUR LENGTH 1.0 MILES

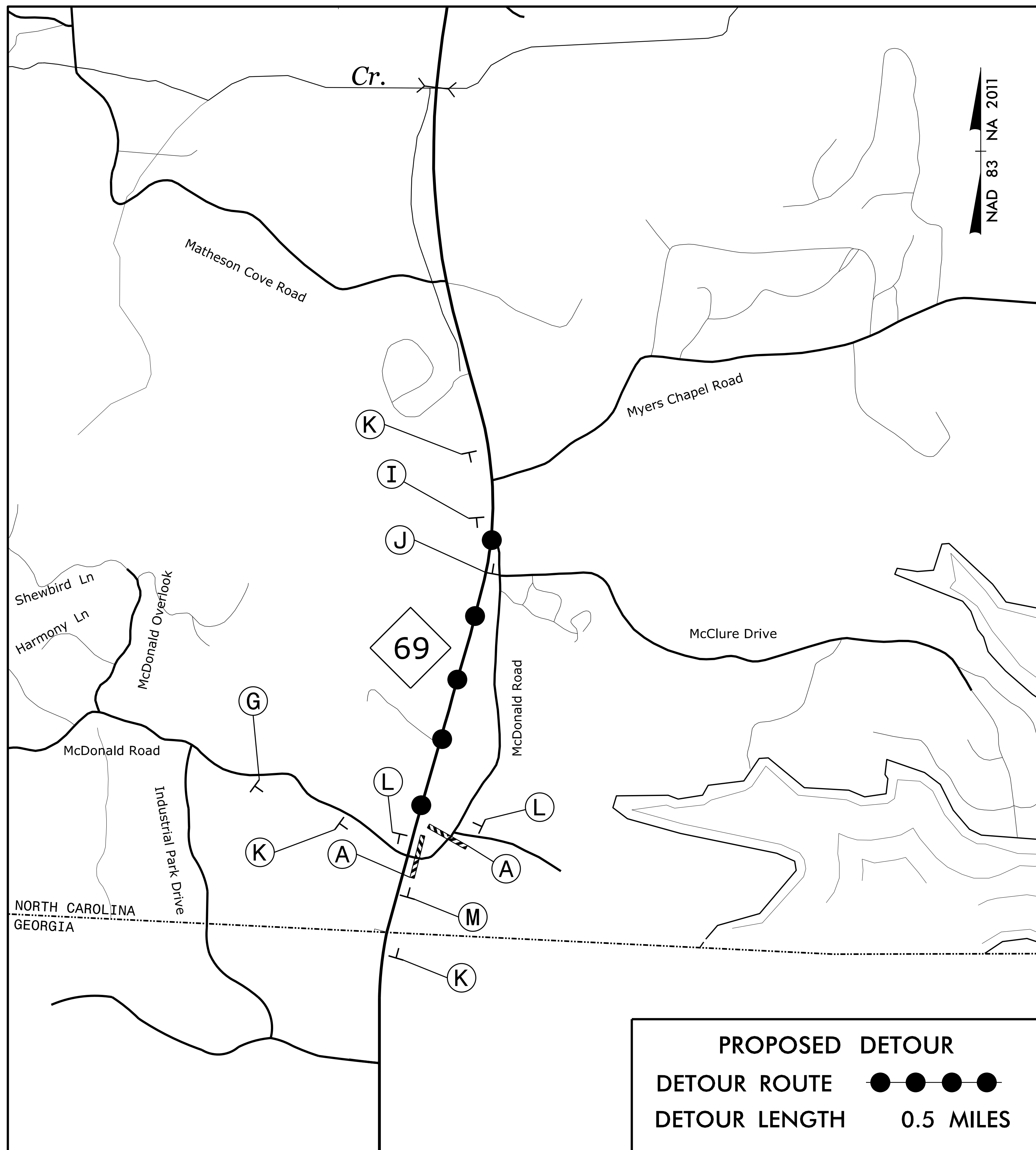
<p>R11-2 48" x 30"</p>  <p>TYPE III BARRICADE</p> <p>(A)</p>	<p>R11-2 48" x 30"</p>  <p>TYPE III BARRICADE</p> <p>(B)</p>	
<p>M4-8 24" x 12"</p> <p>DETOUR</p> <p>(C)</p>	<p>M4-8 24" x 12"</p> <p>DETOUR</p> <p>(D)</p>	<p>M4-8 24" x 12"</p> <p>DETOUR</p> <p>(E)</p>
<p>M6-1 L 21" x 15"</p>  <p>(C)</p>	<p>M6-1 21" x 15"</p>  <p>(D)</p>	<p>M6-3 21" x 15"</p>  <p>(E)</p>
<p>M4-8 A 24" x 18"</p> <p>END DETOUR</p> <p>(F)</p>	<p>W20-3 48" x 48"</p> <p>ROAD CLOSED AHEAD</p> <p>(G)</p>	<p>M4-8 24" x 12"</p> <p>DETOUR</p> <p>(H)</p>
<p>M4-8 24" x 12"</p> <p>DETOUR</p> <p>(I)</p>	<p>M4-8 24" x 12"</p> <p>DETOUR</p> <p>(J)</p>	<p>W20-2 48" x 48"</p> <p>DETOUR AHEAD</p> <p>(K)</p>
<p>M6-1 21" x 15"</p>  <p>(I)</p>	<p>M6-1 21" x 15"</p>  <p>(J)</p>	<p>W20-3 48" x 48"</p> <p>ROAD CLOSED AHEAD</p> <p>(K)</p>
<p>W20-3 48" x 48"</p> <p>ROAD CLOSED AHEAD</p> <p>(L)</p>	<p>W20-3 48" x 48"</p> <p>ROAD CLOSED AHEAD</p> <p>(M)</p>	<p>SP-4L 42" x 12"</p> <p>NEXT LEFT</p> <p>(L)</p>
<p>SP-4R 42" x 12"</p> <p>NEXT RIGHT</p> <p>(M)</p>		

APPROVED: _____ DATE: 9/4/2019		
<p>DETOUR SIGNING</p>		
<p><small>DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED</small></p>		

-Y1- DETOUR - MCDONALD RD VIA MCDONALD RD

PROJ. REFERENCE NO.	SHEET NO.
A-0011C	TMP-60

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 www.rameykemp.com
 NC License No. C-9910



PROPOSED DETOUR
 DETOUR ROUTE ●●●●●
 DETOUR LENGTH 0.5 MILES

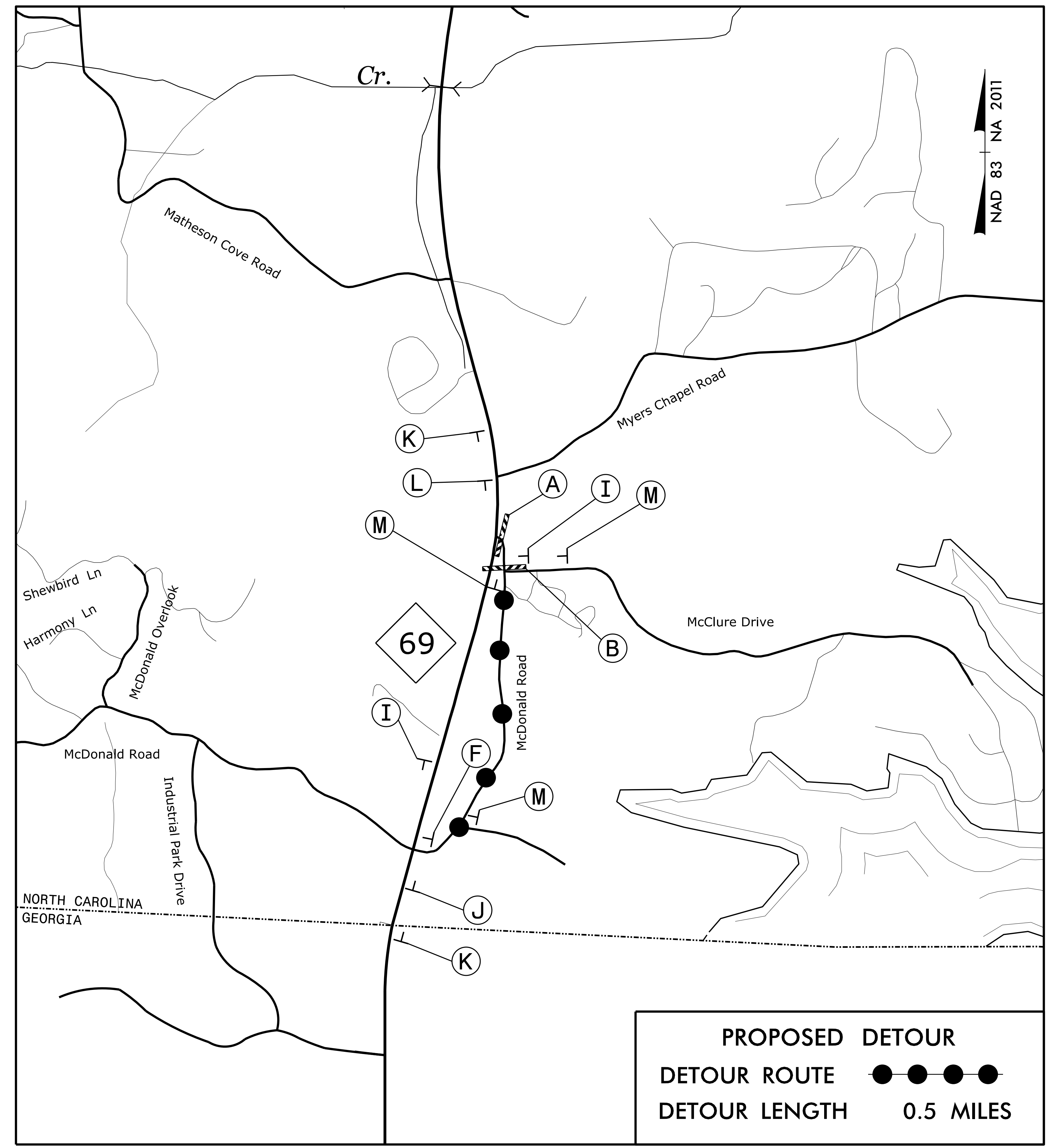
<p>R11-2 48" x 30"</p> <p>TYPE III BARRICADE (A)</p>	<p>R11-3 60" x 30"</p> <p>TYPE III BARRICADE (B)</p>	
<p>M4-10L 48" x 18"</p> <p>(C)</p>	<p>M4-8 24" x 12"</p> <p>(D)</p>	<p>M4-8 24" x 12"</p> <p>(E)</p>
<p>M6-1 L 21" x 15"</p> <p>(F)</p>	<p>M6-1 21" x 15"</p> <p>(G)</p>	<p>M6-3 21" x 15"</p> <p>(H)</p>
<p>M4-8 24" x 12"</p> <p>(I)</p>	<p>M4-8 24" x 12"</p> <p>(J)</p>	<p>M4-8 24" x 12"</p> <p>(K)</p>
<p>M6-1 21" x 15"</p> <p>(L)</p>	<p>M6-1 21" x 15"</p> <p>(M)</p>	<p>W20-2 48" x 48"</p> <p>(N)</p>
<p>SP-4L 42" x 12"</p> <p>(O)</p>	<p>SP-4R 42" x 12"</p> <p>(P)</p>	

<p>APPROVED: _____ DATE: 9/4/2019</p> <p>SEAL DocuSigned by: Nicholas E. Burns 77848A840D0A8E</p> <p>DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED</p>			<p>DETOUR SIGNING</p>
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-Y2- DETOUR - MCDONALD RD VIA MCDONALD RD

PROJ. REFERENCE NO.	SHEET NO.
A-0011C	TMP-61

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<p>R11-2 48" x 30"</p> <p>TYPE III BARRICADE(S)</p>	<p>R11-3 60" x 30"</p> <p>TYPE III BARRICADE</p>
(A)	(B)
<p>DETOUR M4-8 24" x 12"</p> <p>← M6-1 L 21" x 15"</p>	<p>DETOUR M4-8 24" x 12"</p> <p>→ M6-1 21" x 15"</p>
(C)	(D)
<p>DETOUR M4-8 24" x 12"</p> <p>← M6-1 L 21" x 15"</p>	<p>DETOUR M4-8 24" x 12"</p> <p>↑ M6-3 21" x 15"</p>
(E)	(F)
<p>END DETOUR M4-8 A 24" x 18"</p>	<p>ROAD CLOSED AHEAD W20-3 48" x 48"</p>
(G)	(H)
<p>DETOUR M4-8 24" x 12"</p> <p>McDonald Rd</p> <p>← M6-1 21" x 15"</p>	<p>DETOUR M4-8 24" x 12"</p> <p>McDonald Rd</p> <p>→ M6-1 21" x 15"</p>
(I)	(J)
<p>ROAD CLOSED AHEAD W20-3 48" x 48"</p>	<p>ROAD CLOSED AHEAD W20-3 48" x 48"</p>
(K)	(L)
<p>DETOUR AHEAD W20-2 48" x 48"</p>	<p>NEXT LEFT SP-4L 42" x 12"</p>
(M)	(N)
<p>McDonald Rd</p> <p>↑ M6-3 21" x 15"</p>	<p>DETOUR AHEAD W20-2 48" x 48"</p> <p>NEXT RIGHT SP-4R 42" x 12"</p>

PROPOSED DETOUR

DETOUR ROUTE ●●●●

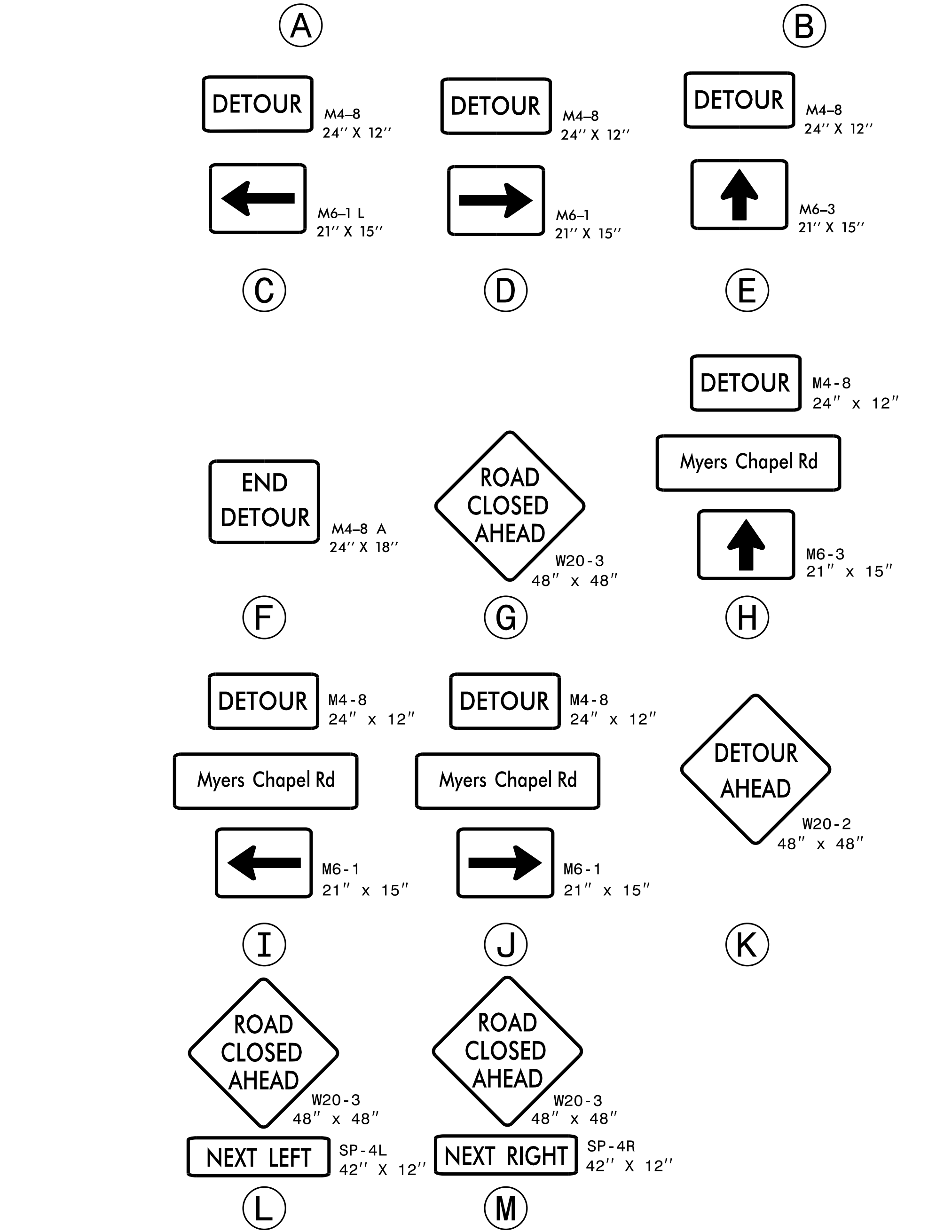
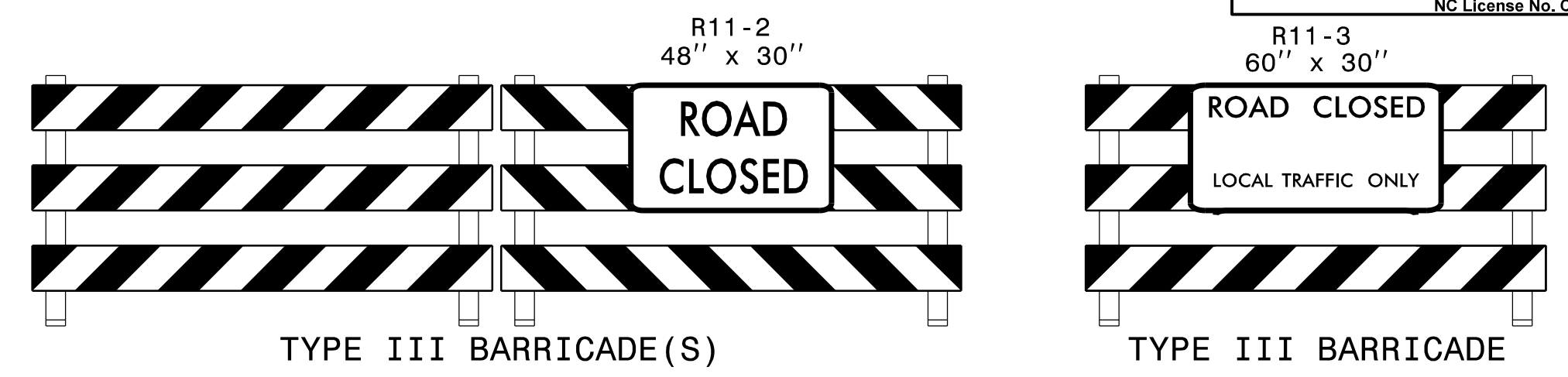
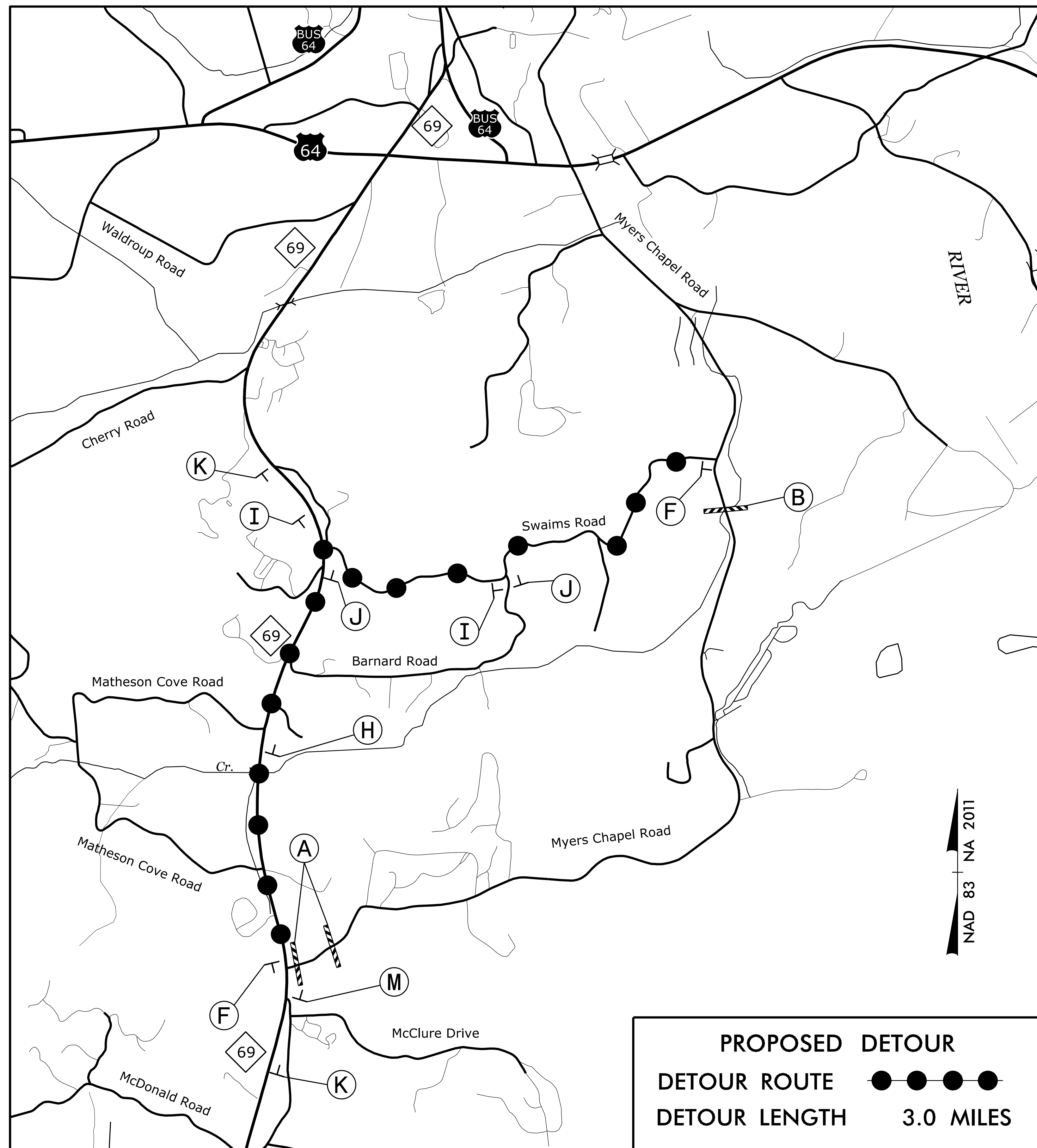
DETOUR LENGTH 0.5 MILES

<p>APPROVED: _____</p> <p>DATE: 9/4/2019</p> <p>SEAL</p> <p>DocuSigned by: Nicholas E. Burns</p> <p>DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED</p>			<p>DETOUR SIGNING</p>
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-Y5- DETOUR - MYERS CHAPEL RD VIA SWAIMS RD


PROJ. REFERENCE NO.	SHEET NO.
A-0011C	TMP-62

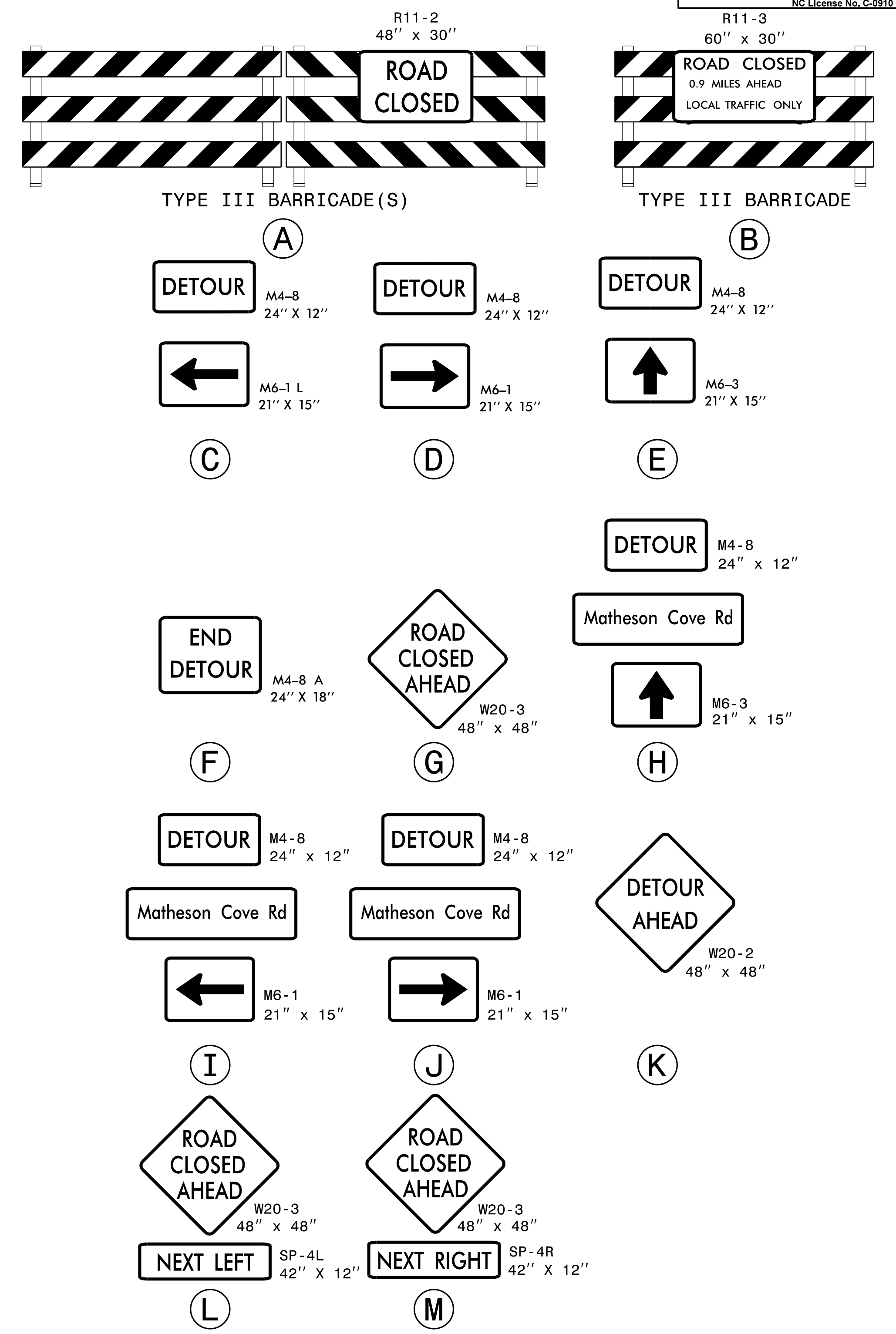
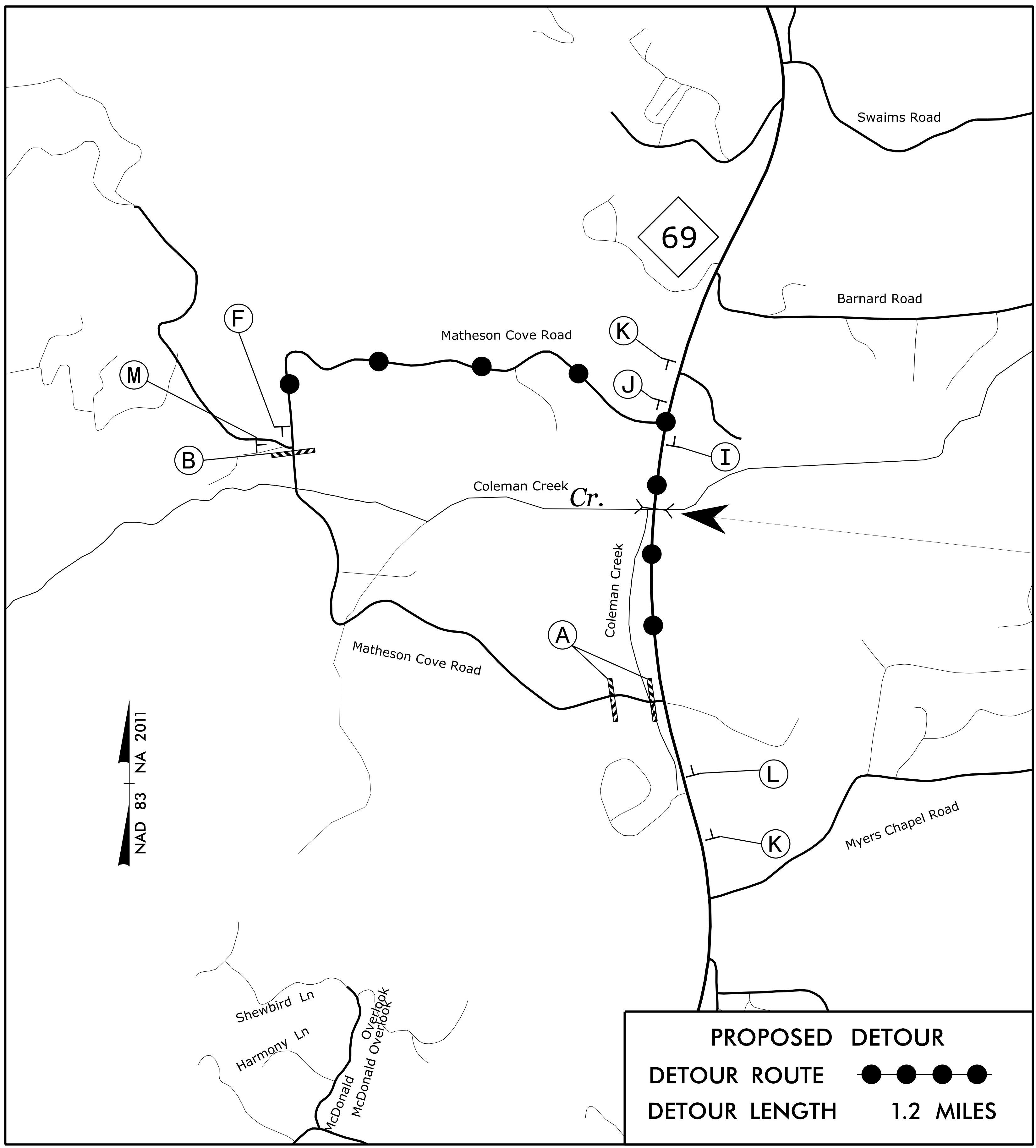
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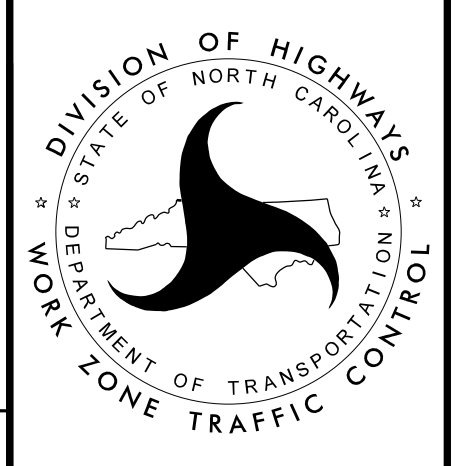


APPROVED: _____ DATE: 9/4/2019		
<p>DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED</p>		
<h2>DETOUR SIGNING</h2>		


-Y7- DETOUR - MATHESON COVE RD VIA MATHESON COVE

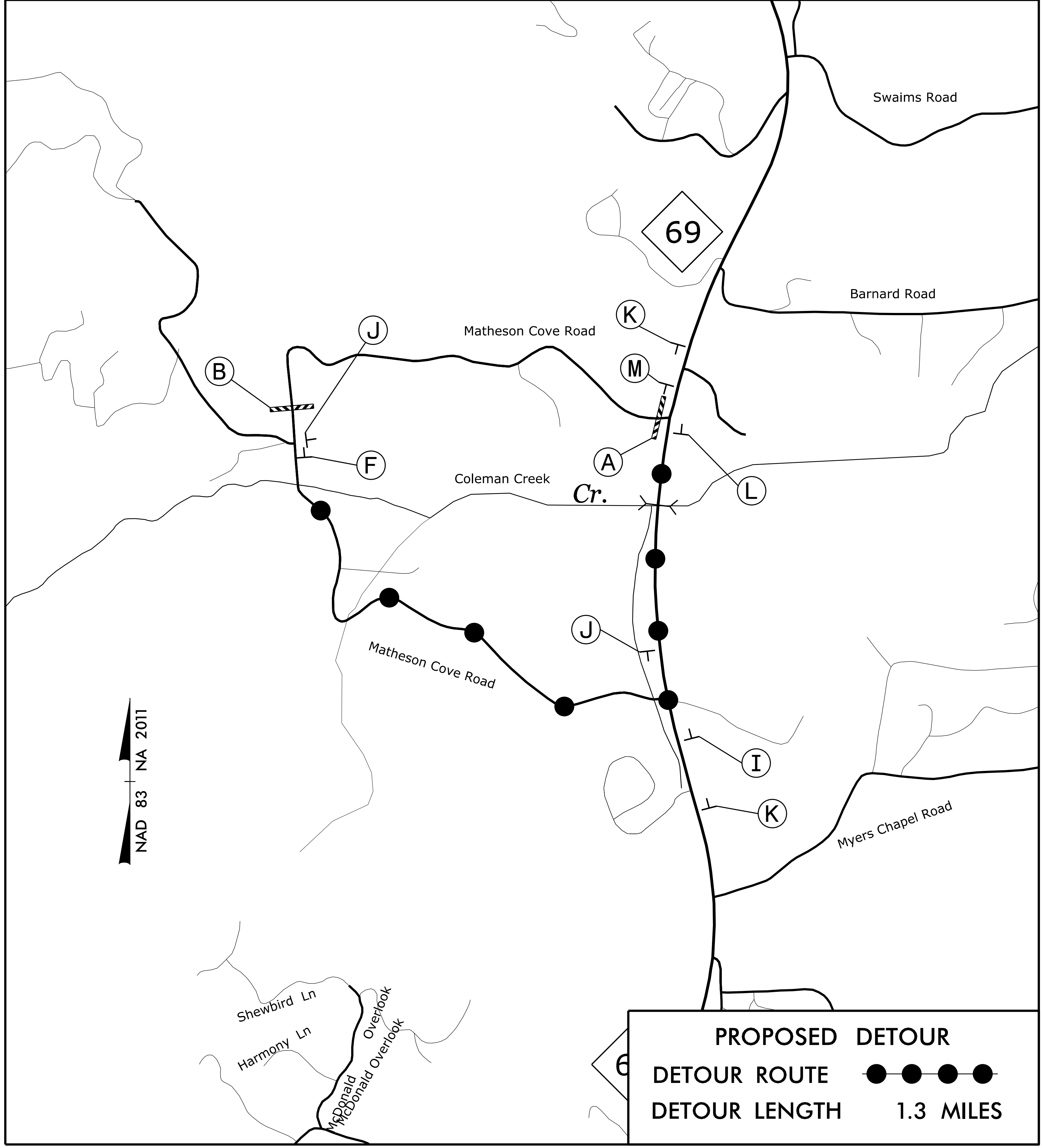
PROJ. REFERENCE NO. A-0011C	SHEET NO. TMP-63
 RAMEY KEMP ASSOCIATES, INC. Transportation Engineers 8307 University Executive Park Drive, Suite 260 Charlotte, North Carolina 28262 704-549-4260 Tel. 704-549-4277 Fax. www.rameykemp.com NC License No. C-9910	

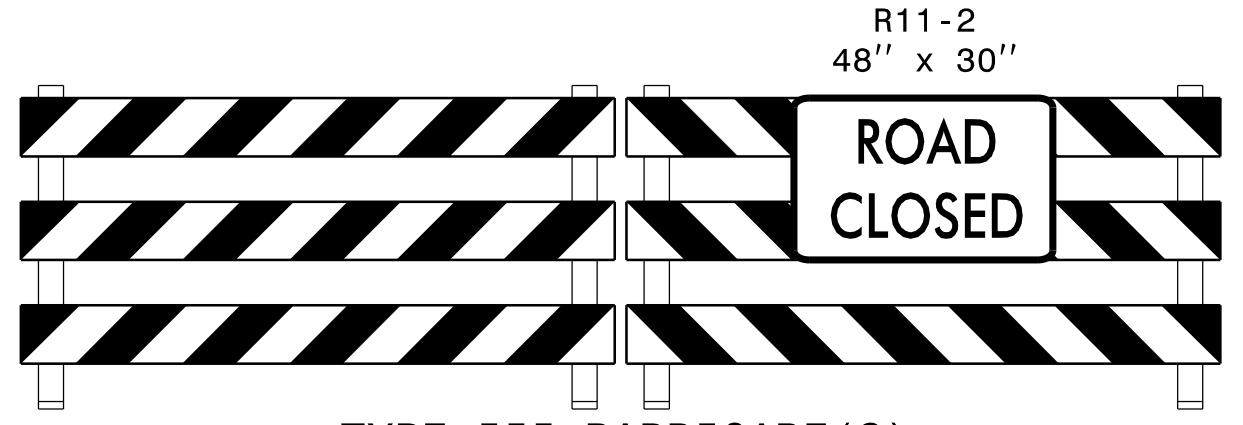
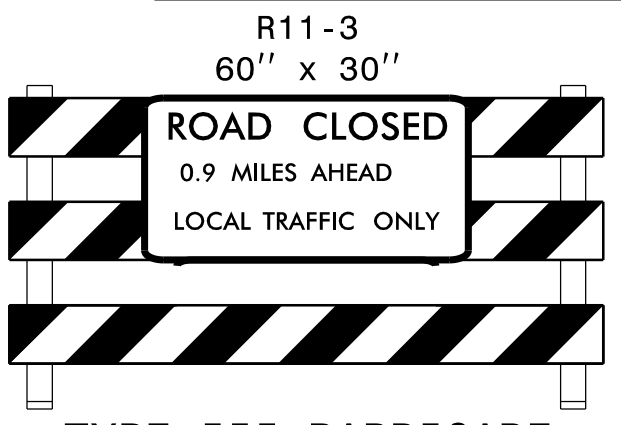
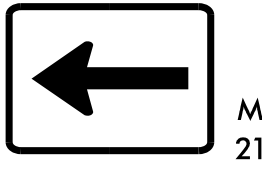
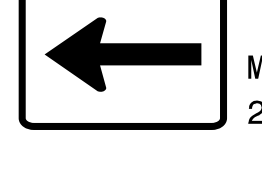
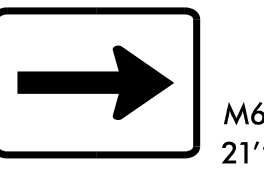
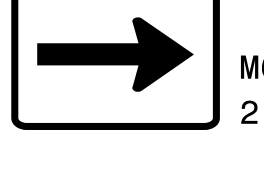
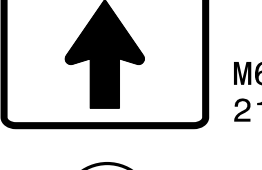


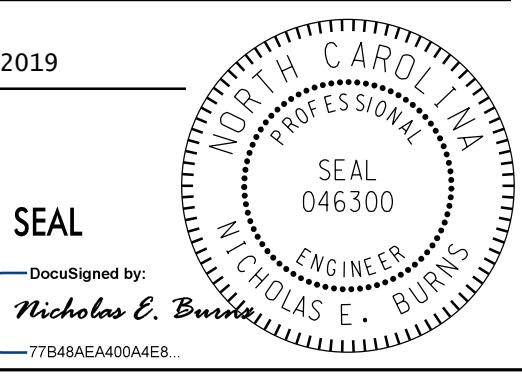
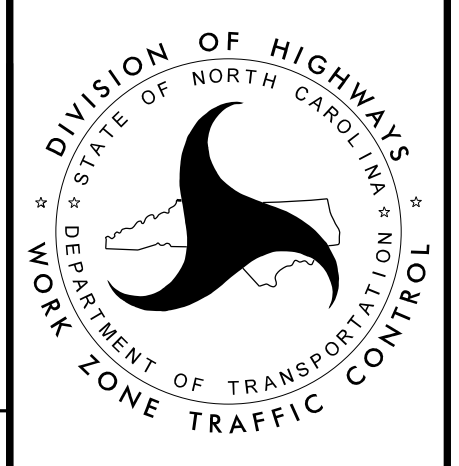
APPROVED: _____ DATE: 9/4/2019 SEAL DocuSigned by: Nicholas E. Burns PROFESSIONAL ENGINEER SEAL 046300 NICHOLAS E. BURNS ENGINEER	 DIVISION OF HIGHWAYS STATE OF NORTH CAROLINA DEPARTMENT OF TRANSPORTATION WORK ZONE TRAFFIC CONTROL	<h2>DETOUR SIGNING</h2>
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED		

-Y8- DETOUR - MATHESON COVE RD VIA MATHESON COVE

PROJ. REFERENCE NO. A-0011C	SHEET NO. TMP-64
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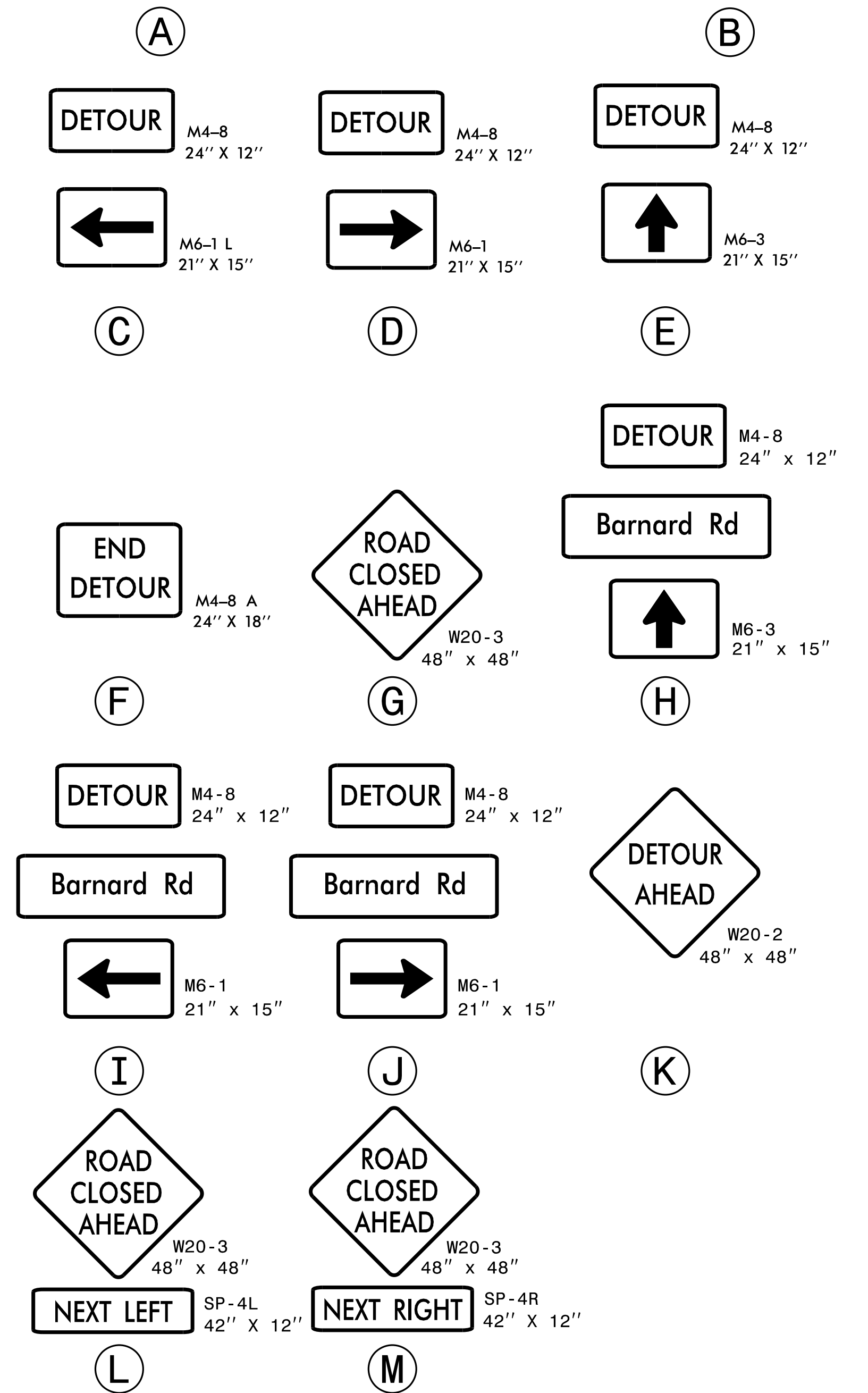
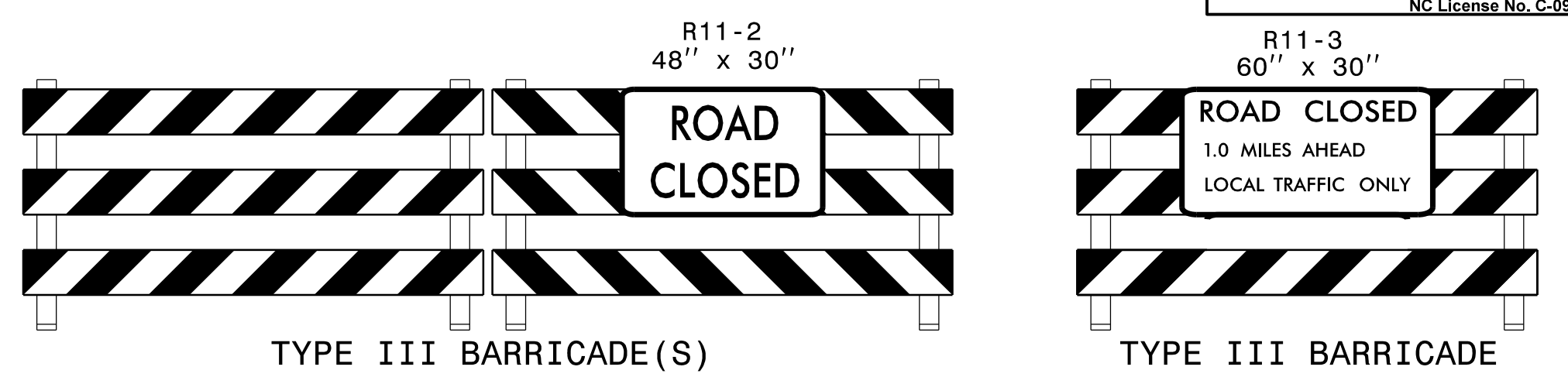
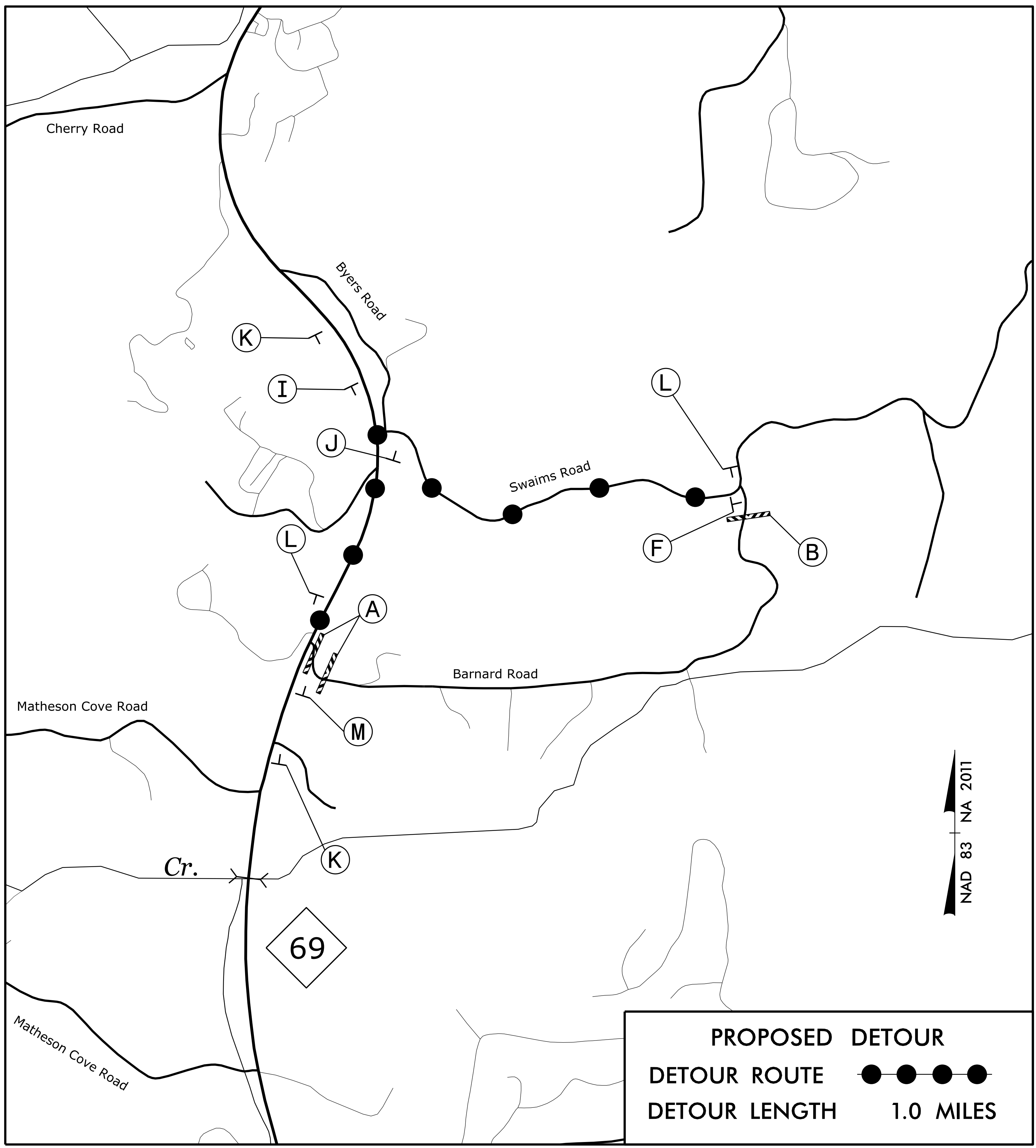
 <p>R11-2 48" x 30"</p> <p>ROAD CLOSED</p> <p>TYPE III BARRICADE (S)</p>	 <p>R11-3 60" x 30"</p> <p>ROAD CLOSED 0.9 MILES AHEAD LOCAL TRAFFIC ONLY</p> <p>TYPE III BARRICADE</p>	
<p>(A)</p> <p>DETOUR M4-8 24" x 12"</p> <p> M6-1 L 21" x 15"</p> <p>(C)</p> <p>END DETOUR M4-8 A 24" x 18"</p> <p>(F)</p> <p>DETOUR M4-8 24" x 12"</p> <p>Matheson Cove Rd</p> <p> M6-1 21" x 15"</p> <p>(I)</p> <p>ROAD CLOSED AHEAD W20-3 48" x 48"</p> <p>NEXT LEFT SP-4L 42" x 12"</p> <p>(L)</p>	<p>(B)</p> <p>DETOUR M4-8 24" x 12"</p> <p> M6-1 21" x 15"</p> <p>(D)</p> <p>ROAD CLOSED AHEAD W20-3 48" x 48"</p> <p>(G)</p> <p>DETOUR M4-8 24" x 12"</p> <p>Matheson Cove Rd</p> <p> M6-1 21" x 15"</p> <p>(J)</p> <p>ROAD CLOSED AHEAD W20-3 48" x 48"</p> <p>NEXT RIGHT SP-4R 42" x 12"</p> <p>(M)</p>	<p>(E)</p> <p>DETOUR M4-8 24" x 12"</p> <p>Matheson Cove Rd</p> <p> M6-3 21" x 15"</p> <p>(H)</p> <p>DETOUR AHEAD W20-2 48" x 48"</p> <p>(K)</p>

APPROVED: _____ DATE: 9/4/2019 		<h2>DETOUR SIGNING</h2>
<p>DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED</p>		

-Y10- DETOUR - BARNARD RD VIA SWAIMS RD

PROJ. REFERENCE NO.	SHEET NO.
A-0011C	TMP-65


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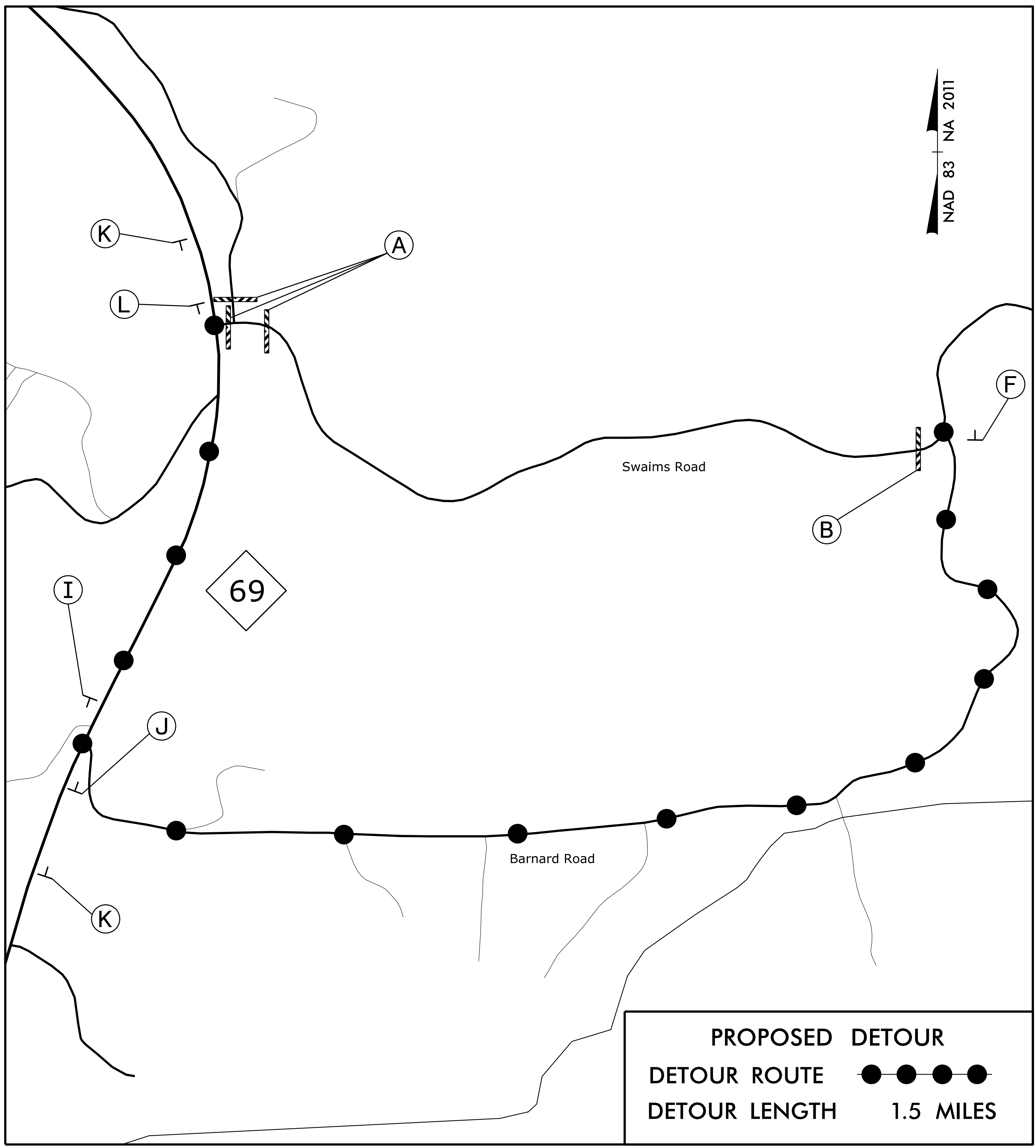


PROPOSED DETOUR
 DETOUR ROUTE ●●●●●
 DETOUR LENGTH 1.0 MILES

APPROVED: _____ DATE: 9/4/2019			<h2>DETOUR SIGNING</h2>
<p>DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED</p>			

-Y12- DETOUR - SWAIMS ROAD VIA BARNARD ROAD

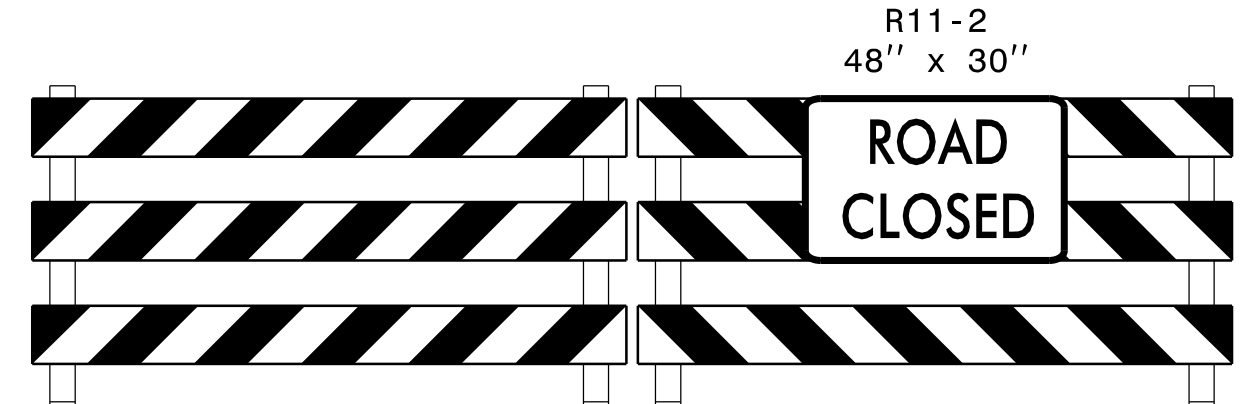





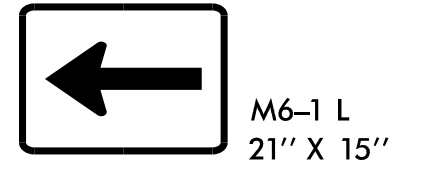
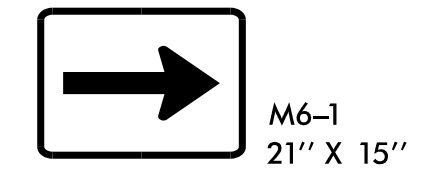











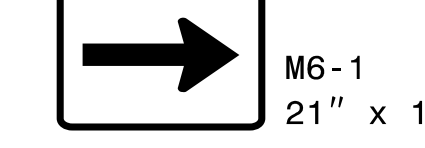
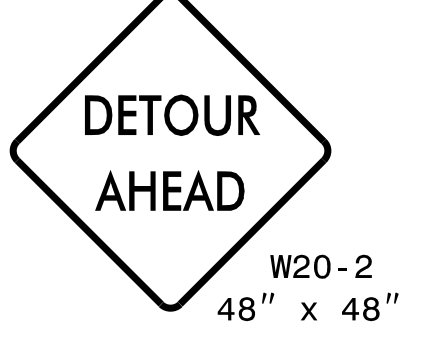




PROJ. REFERENCE NO. A-0011C	SHEET NO. TMP-66
 RAMEY KEMP ASSOCIATES, INC. Transportation Engineers 8307 University Executive Park Drive, Suite 260 Charlotte, North Carolina 28262 704-549-4260 Tel. 704-549-4277 Fax. www.rameykemp.com NC License No. C-9910	

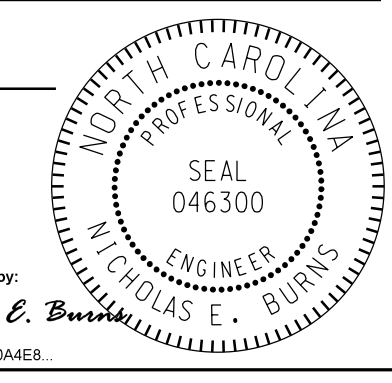
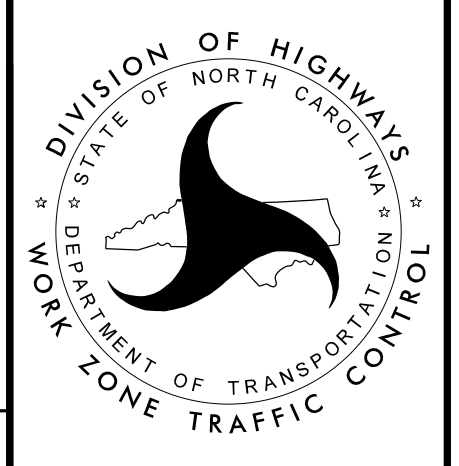


PROPOSED DETOUR


DETOUR ROUTE ●●●●●

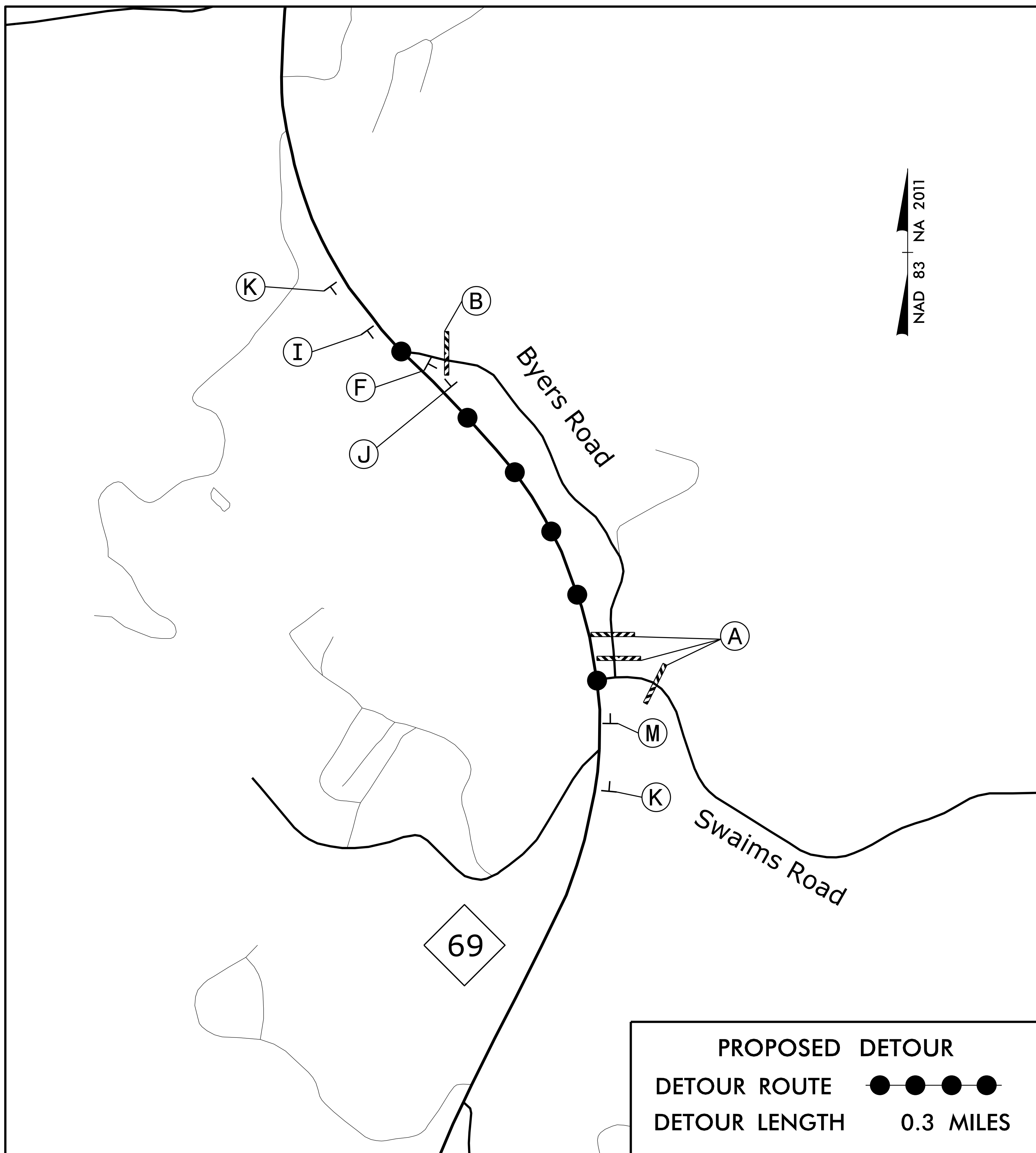
DETOUR LENGTH 1.5 MILES

 TYPE III BARRICADE(S)	 TYPE III BARRICADE	
(A)   	(B) 	
 (C)	 (D)	 (E)
 (F)	 (G)	   (H)
   (I)	   (J)	 (K)
  (L)	  (M)	

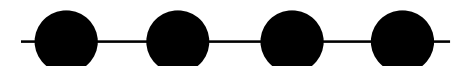
APPROVED: _____ DATE: 9/4/2019  DocuSigned by: Nicholas E. Burns 77848A4A004A6B	 DIVISION OF HIGHWAYS STATE OF NORTH CAROLINA DEPARTMENT OF TRANSPORTATION WORK ZONE TRAFFIC CONTROL	<h2>DETOUR SIGNING</h2>
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED		

-Y13- DETOUR - BYERS RD VIA SWAIMS RD

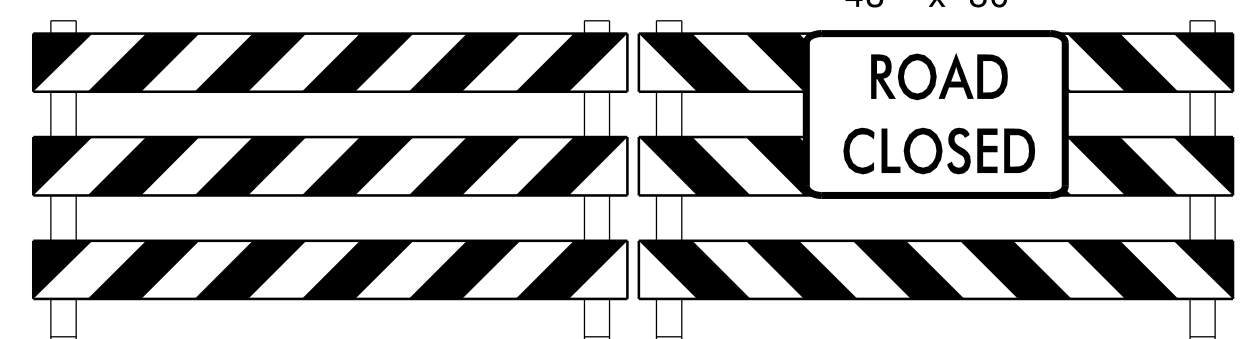

PROJ. REFERENCE NO. A-0011C	SHEET NO. TMP-67
 RAMEY KEMP ASSOCIATES, INC. Transportation Engineers 8307 University Executive Park Drive, Suite 260 Charlotte, North Carolina 28262 704-549-4260 Tel. 704-549-4277 Fax. www.rameykemp.com NC License No. C-9910	

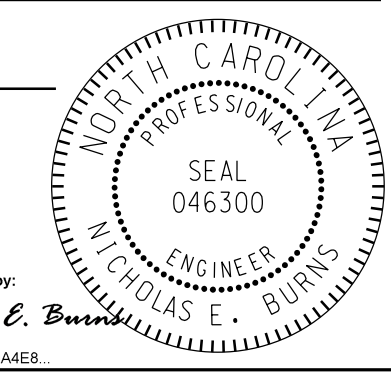
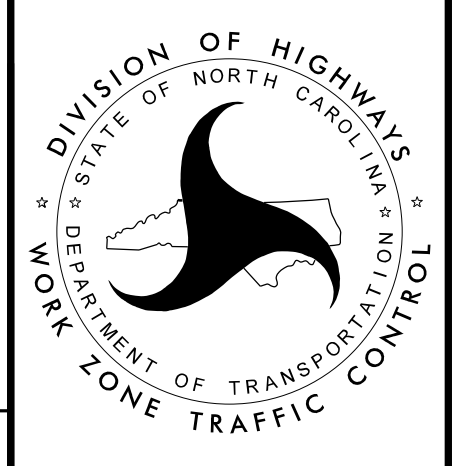


PROPOSED DETOUR

DETOUR ROUTE 

DETOUR LENGTH **0.3 MILES**

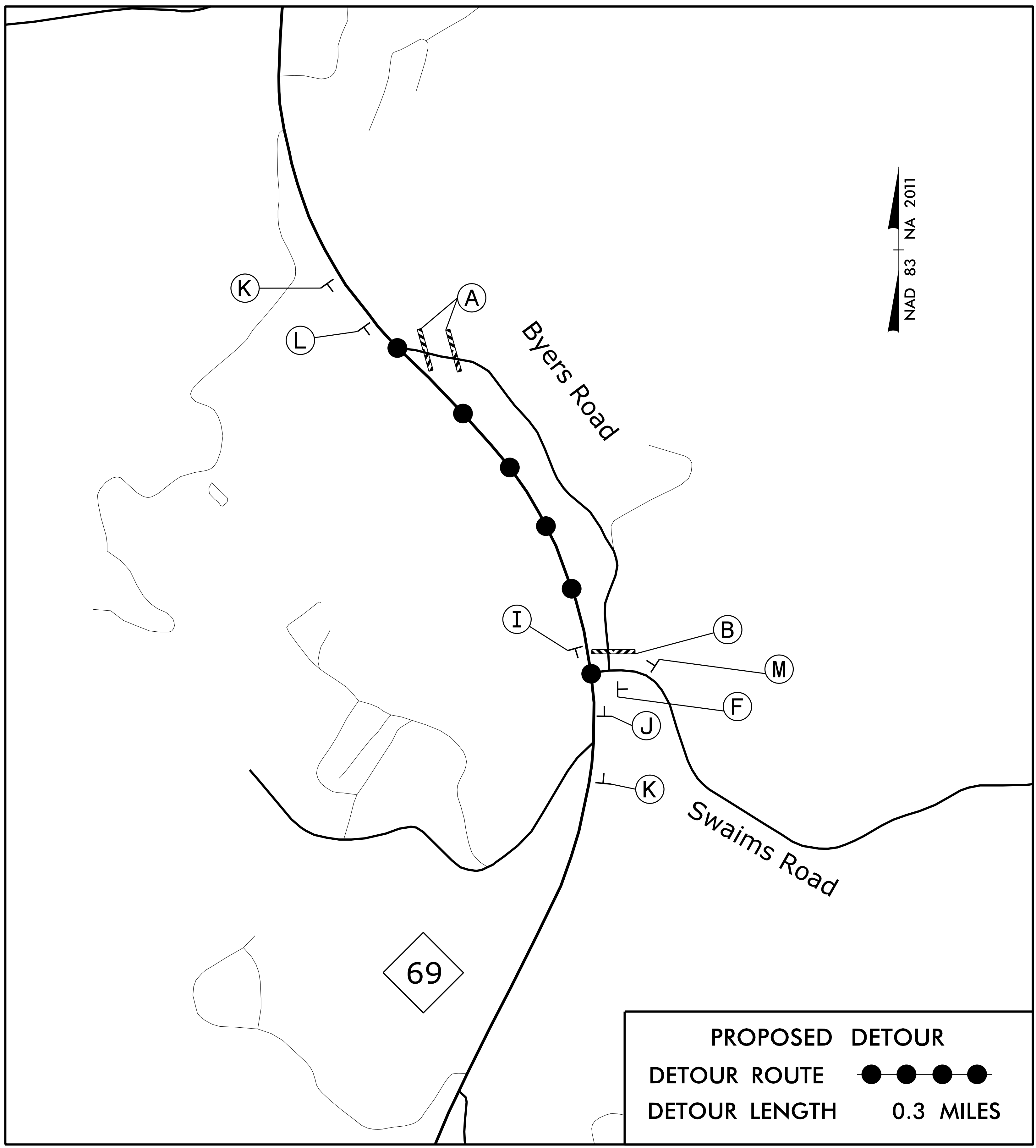
<p>R11-2 48" x 30"</p>  <p>TYPE III BARRICADE(S)</p>	<p>R11-3 60" x 30"</p>  <p>TYPE III BARRICADE</p>	
<p>(A)</p> <p>DETOUR M4-8 24" x 12"</p> <p>(B)</p> <p>DETOUR M4-8 24" x 12"</p>	<p>(C)</p> <p>← M6-1 L 21" x 15"</p> <p>(D)</p> <p>→ M6-1 21" x 15"</p>	<p>(E)</p> <p>↑ M6-3 21" x 15"</p> <p>(F)</p> <p>DETOUR M4-8 24" x 12"</p> <p>(G)</p> <p>ROAD CLOSED AHEAD W20-3 48" x 48"</p> <p>(H)</p> <p>Byers Rd</p> <p>↑ M6-3 21" x 15"</p>
<p>(I)</p> <p>END DETOUR M4-8 A 24" x 18"</p> <p>(J)</p> <p>DETOUR M4-8 24" x 12"</p> <p>Byers Rd</p> <p>← M6-1 21" x 15"</p> <p>(K)</p> <p>ROAD CLOSED AHEAD W20-3 48" x 48"</p> <p>Byers Rd</p> <p>→ M6-1 21" x 15"</p> <p>(L)</p> <p>ROAD CLOSED AHEAD W20-3 48" x 48"</p> <p>NEXT LEFT SP-4L 42" x 12"</p>	<p>(M)</p> <p>DETOUR M4-8 24" x 12"</p> <p>Byers Rd</p> <p>→ M6-1 21" x 15"</p> <p>(N)</p> <p>ROAD CLOSED AHEAD W20-3 48" x 48"</p> <p>NEXT RIGHT SP-4R 42" x 12"</p>	<p>(O)</p> <p>DETOUR M4-8 24" x 12"</p> <p>Byers Rd</p> <p>↑ M6-3 21" x 15"</p> <p>(P)</p> <p>DETOUR AHEAD W20-2 48" x 48"</p> <p>(Q)</p> <p>ROAD CLOSED AHEAD W20-3 48" x 48"</p>

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<p>DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED</p>		

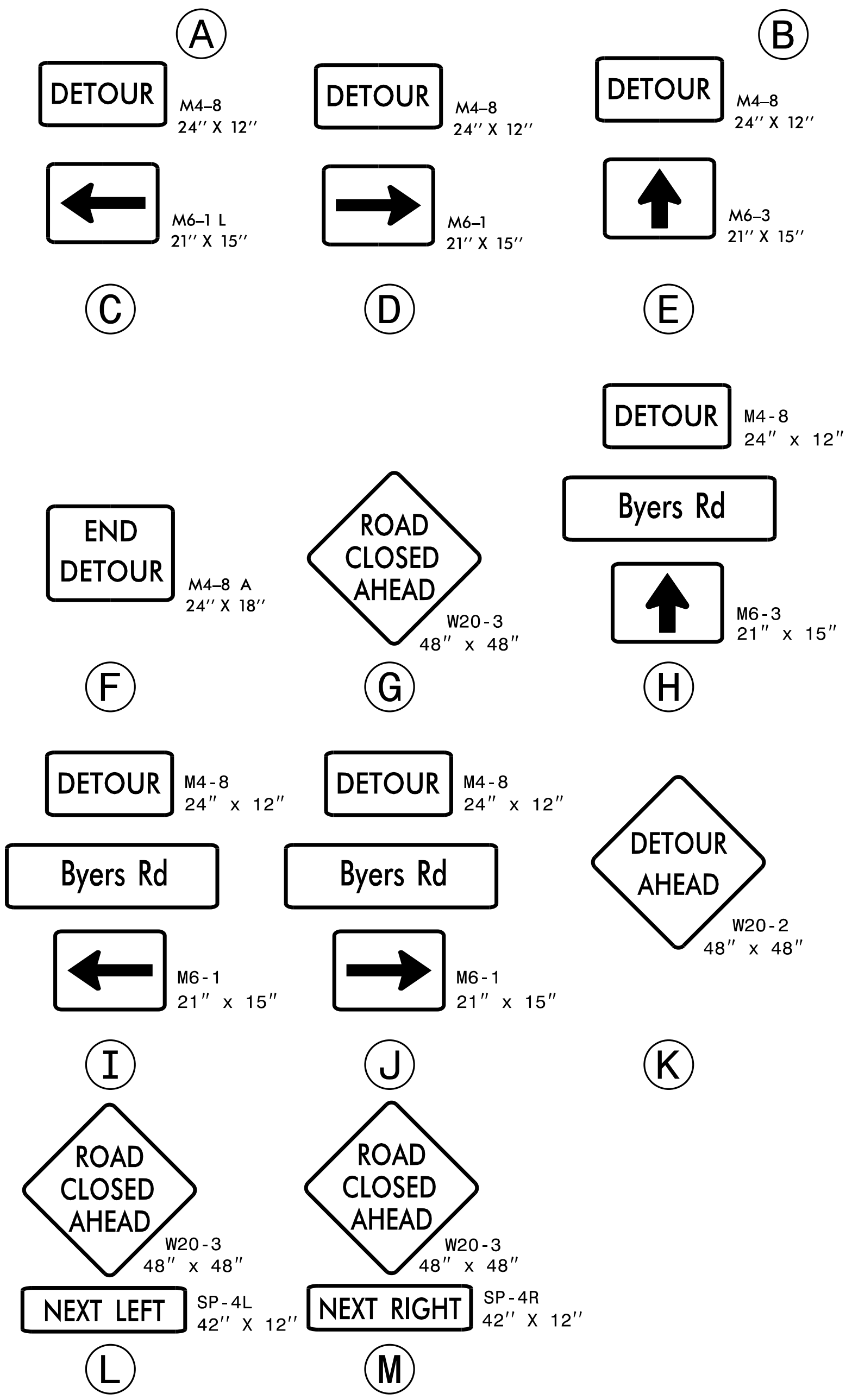
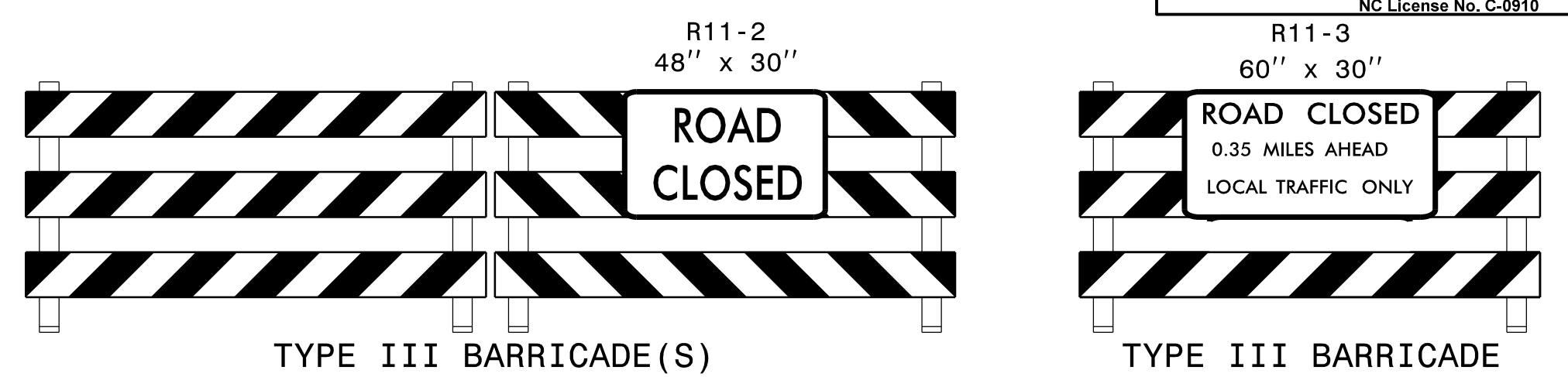
-Y14- DETOUR - BYERS RD VIA SWAIMS RD

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RAMEY KEMP ASSOCIATES, INC.
 Transportation Engineers
 8307 University Executive Park Drive, Suite 260
 Charlotte, North Carolina 28262
 704-549-4260 Tel. 704-549-4277 Fax.
 www.rameykemp.com
 NC License No. C-9910



PROPOSED DETOUR
 DETOUR ROUTE ●●●●
 DETOUR LENGTH 0.3 MILES



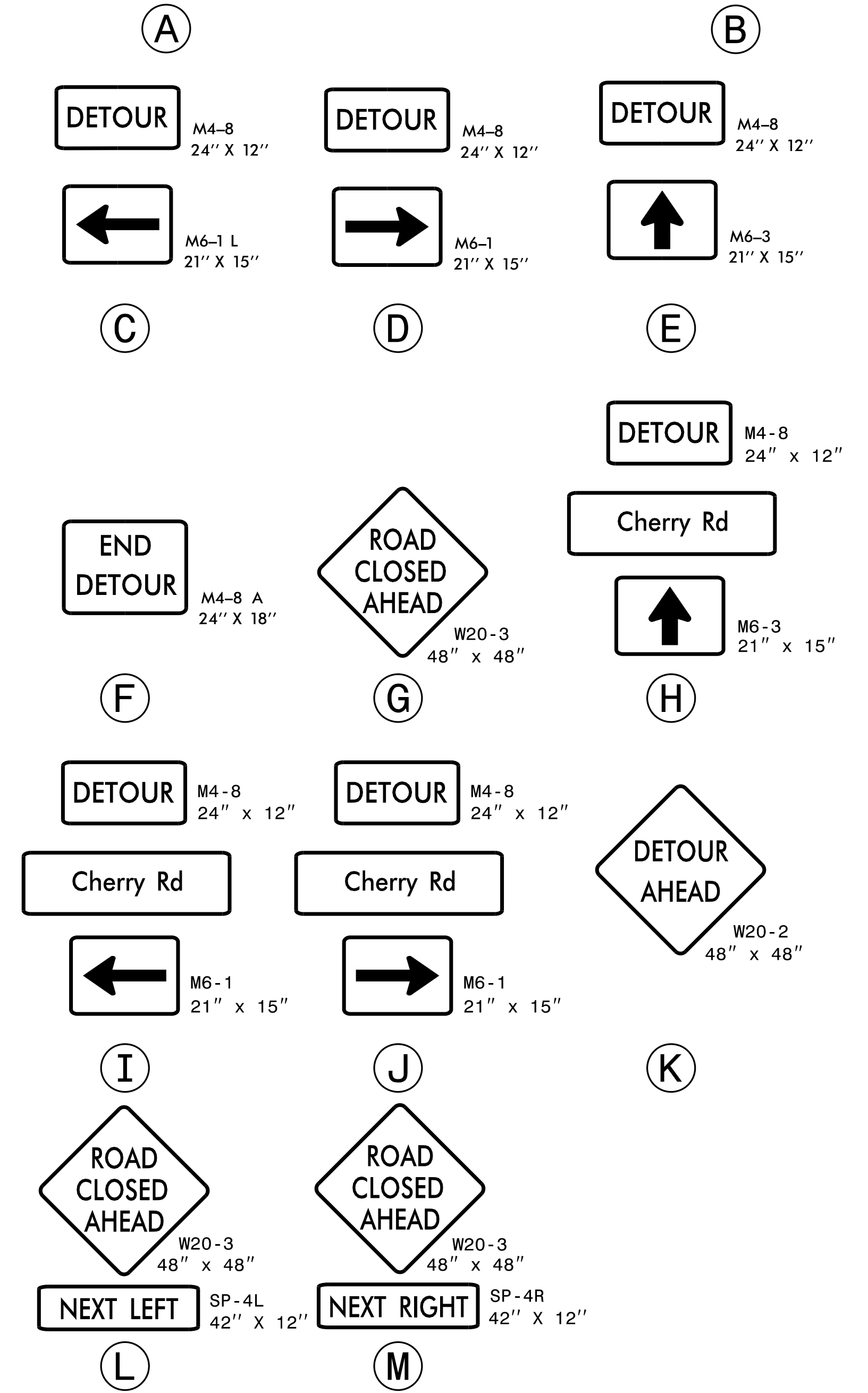
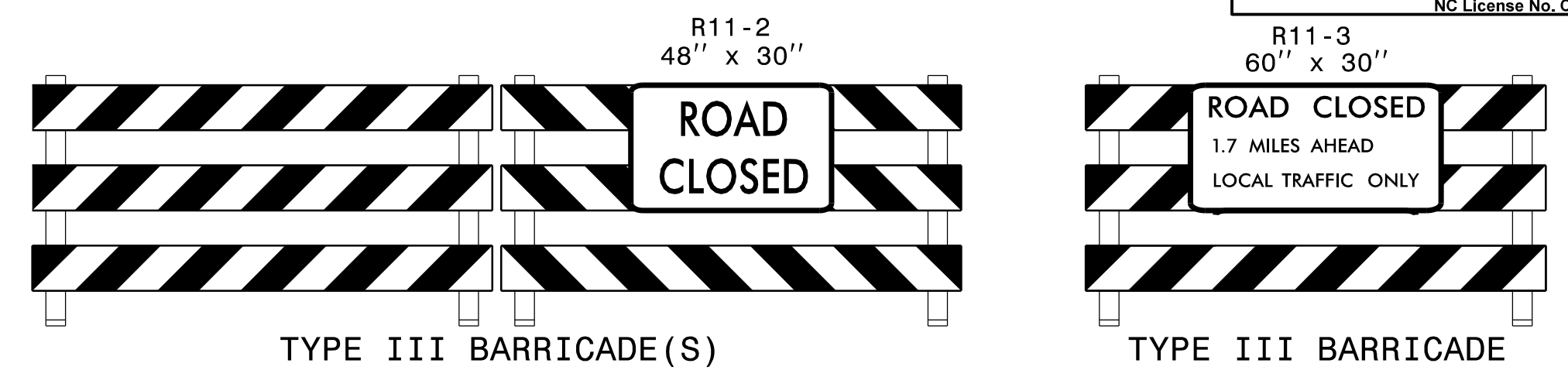
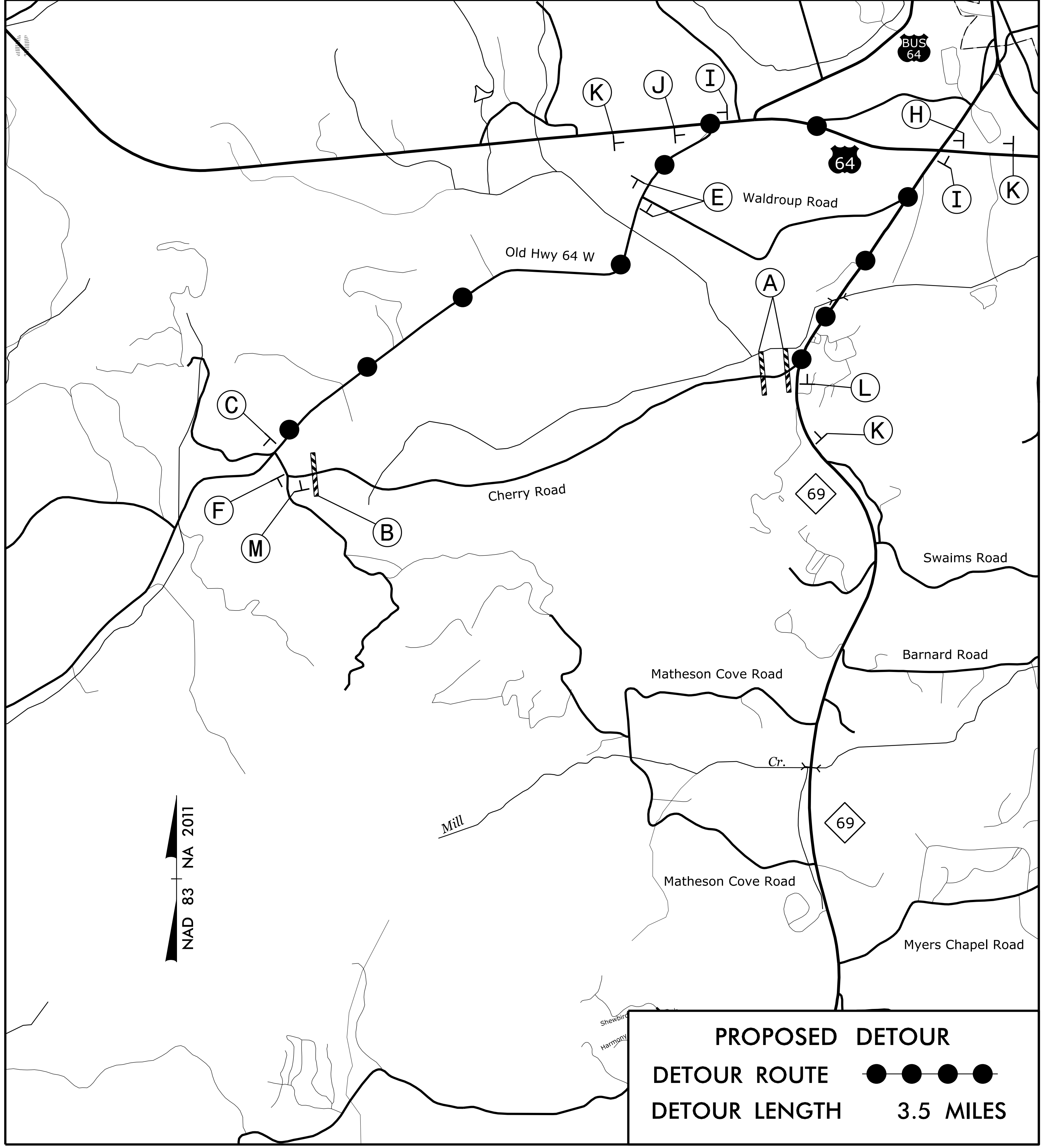
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-Y17- DETOUR - CHERRY RD VIA OLD HWY 64 W


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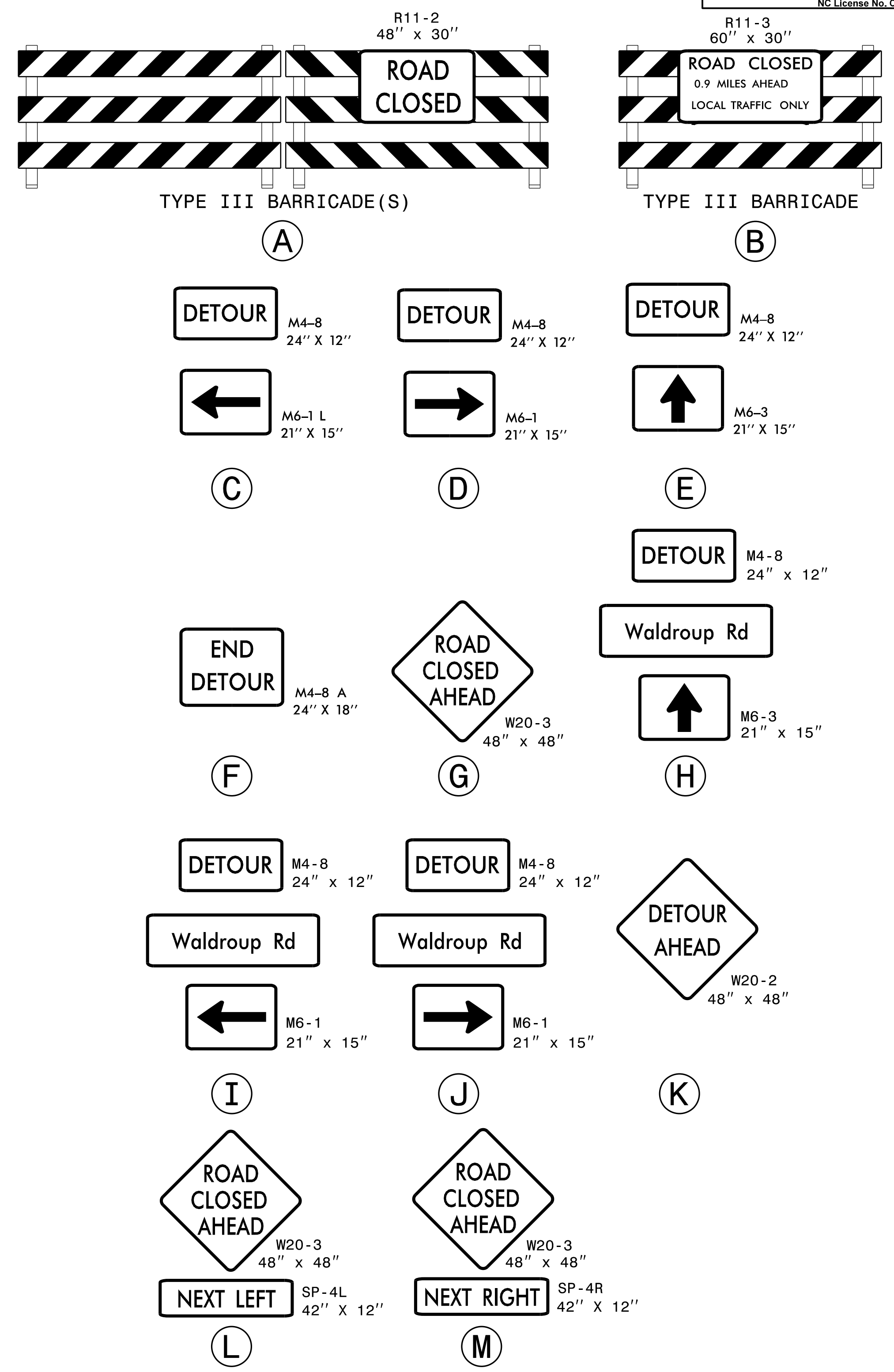
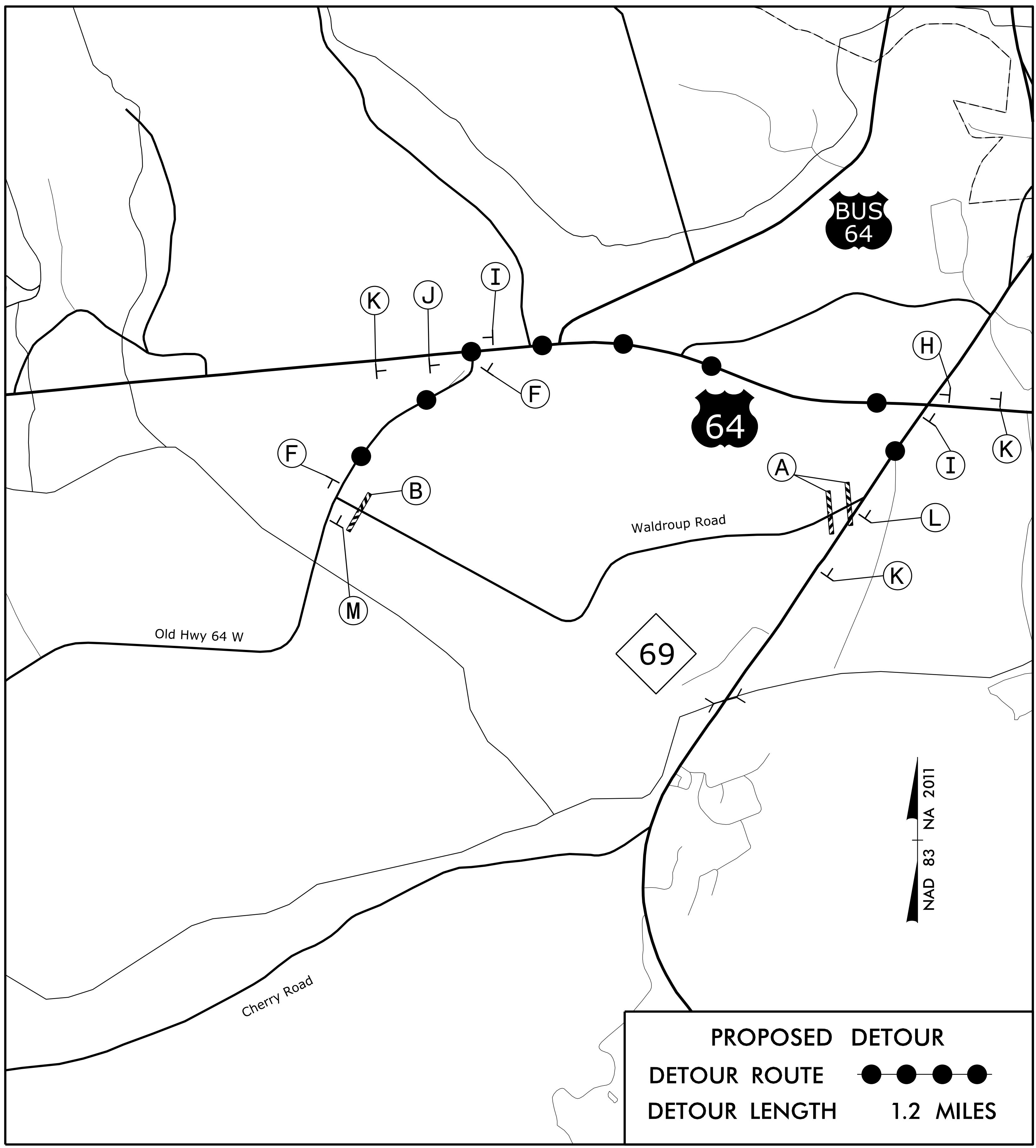
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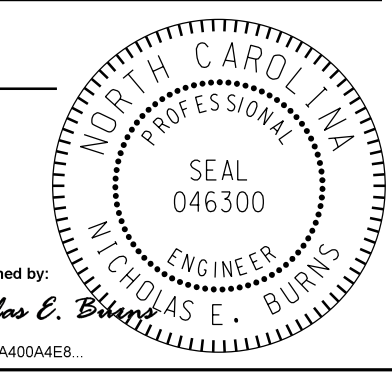
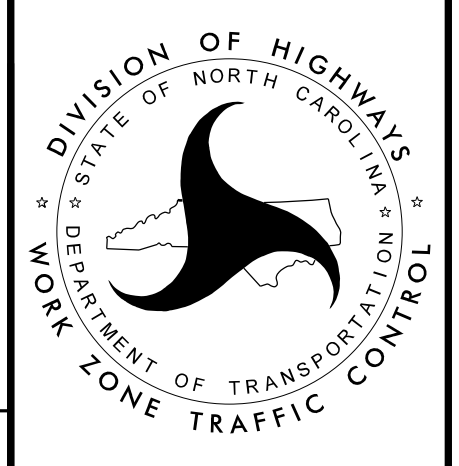


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-Y19- DETOUR - WALDROUP RD VIA US 64

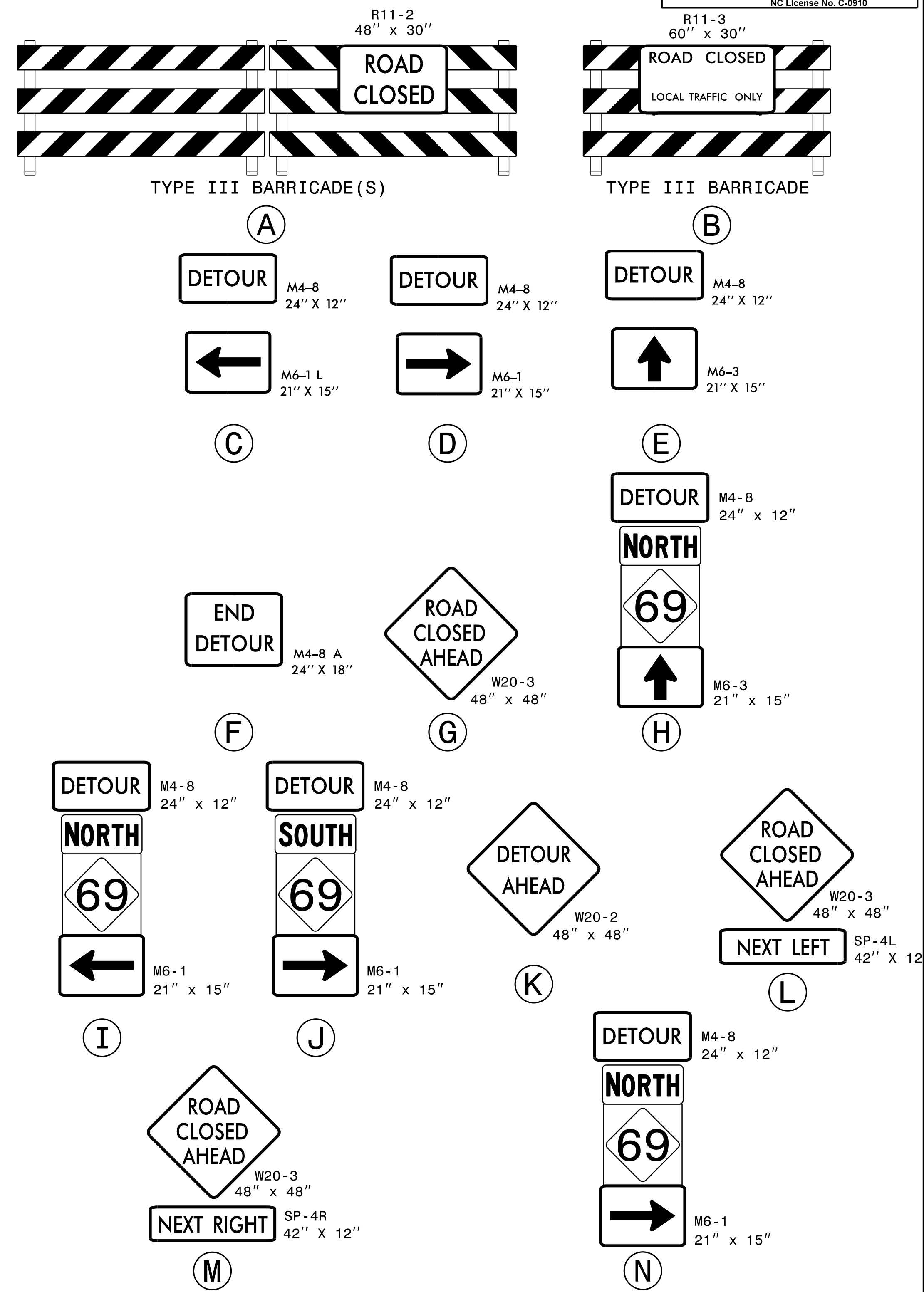
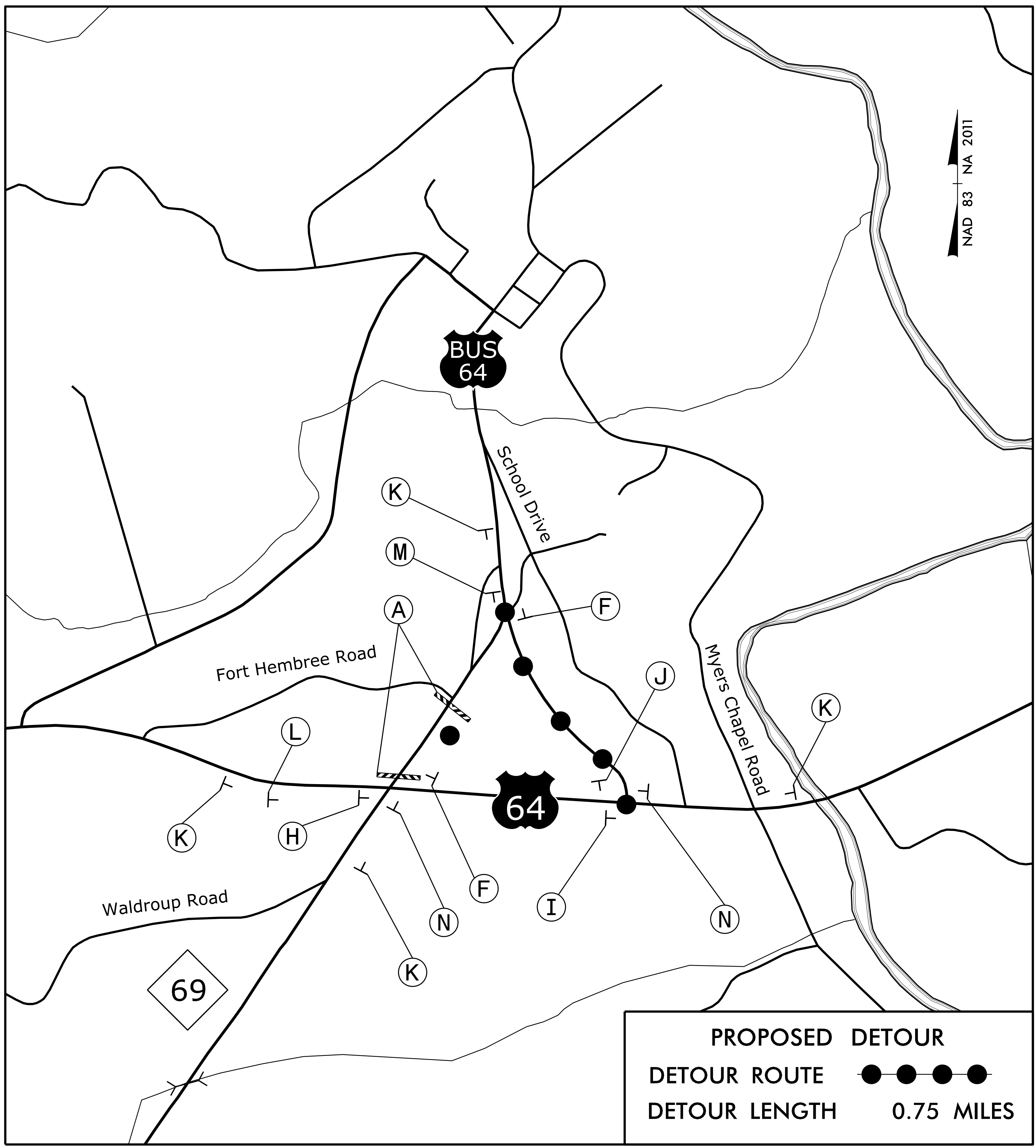
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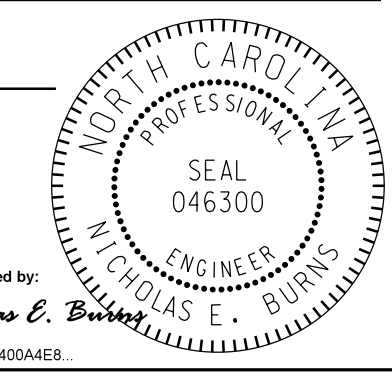
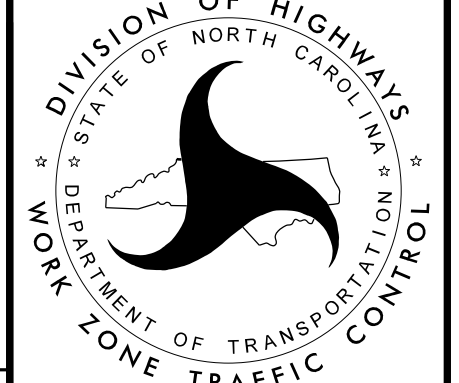


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-L- DETOUR - NC 69 VIA US 64 BUSINESS

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