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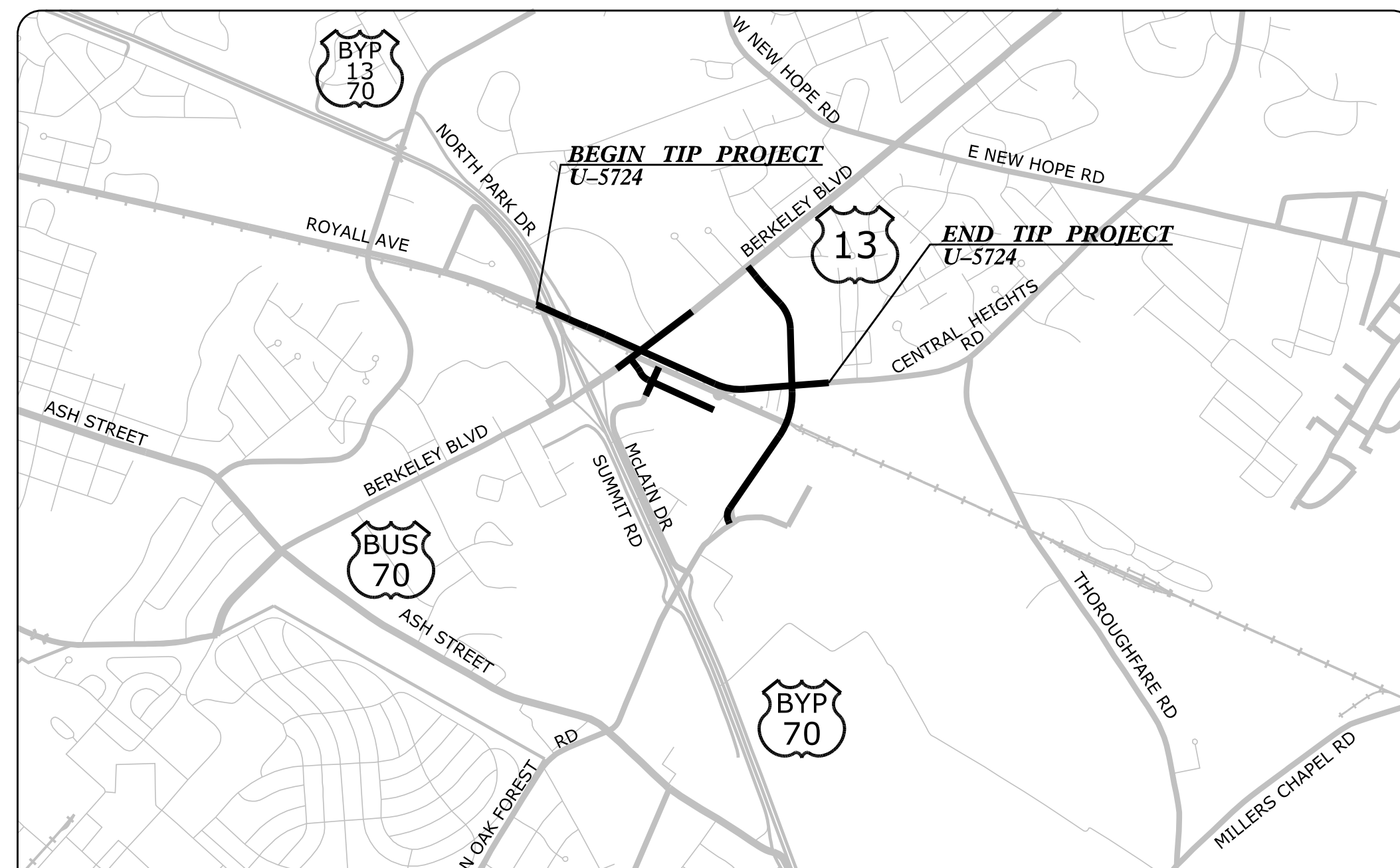
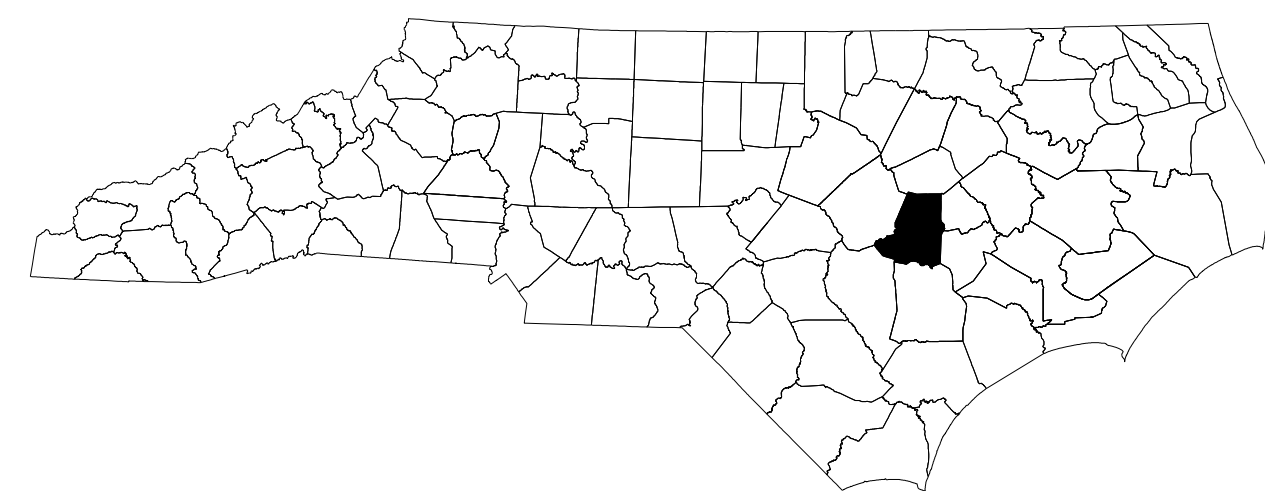
STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

TRANSPORTATION MANAGEMENT PLAN

WAYNE COUNTY

LOCATION: SR 1560 (ROYALL AVENUE) FROM NORTH PARK DRIVE TO US 13 (BERKELEY BOULEVARD) AND SR 1709 (CENTRAL HEIGHTS ROAD) FROM US 13 (BERKELEY BOULEVARD) TO SR 1711 (OAK FOREST ROAD)

TYPE OF WORK: GRADING, PAVING, DRAINAGE, AND STRUCTURE



VICINITY MAP

INDEX OF SHEETS

<u>SHEET NO.</u>	<u>TITLE</u>
TMP-1	TITLE SHEET, AND INDEX OF SHEETS
TMP-1A THRU TMP-1C	LIST OF APPLICABLE ROADWAY STANDARD DRAWINGS, LEGEND, TEMPORARY PAVEMENT MARKINGS, MANAGEMENT STRATEGIES, AND GENERAL NOTES
TMP-2A THRU TMP-2G	TEMPORARY DETOUR ROUTES AND SPECIAL SIGN DESIGNS
TMP-3	CONSTRUCTION PHASING
TMP-4 THRU TMP-10	PHASE 1 DETAILS
TMP-11 THRU TMP-17	PHASE 2 DETAILS
TMP-18 THRU TMP-19	PHASE 3 DETAILS

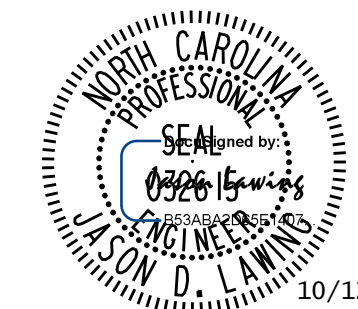
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 MIDPOINT
 PRE-FINAL
 FINAL

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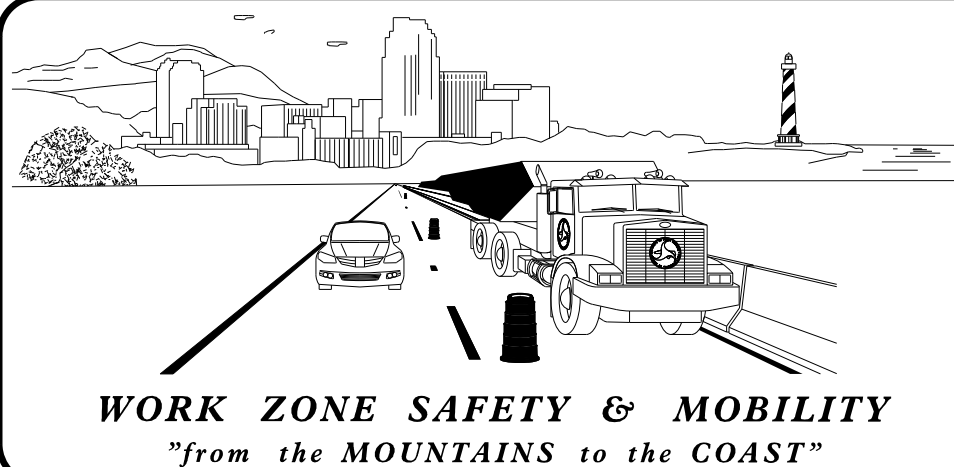
JASON LAWING, P.E. TRAFFIC CONTROL PROJECT ENGINEER
EVAN PARROTT, E.I. TRAFFIC CONTROL PROJECT DESIGN ENGINEER

APPROVED: _____
DATE: _____

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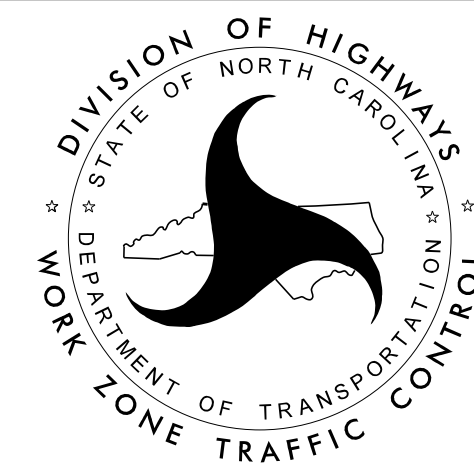


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N.C.D.O.T. WORK ZONE TRAFFIC CONTROL
1561 MAIL SERVICE CENTER (MSC) RALEIGH, NC 27699-1561
750 N. GREENFIELD PARKWAY, GARNER, NC 27529 (DELIVERY)
PHONE: (919) 773-2800 FAX: (919) 771-2745

JOSEPH E. HUMMER PHD, P.E. STATE TRAFFIC MANAGEMENT ENGINEER
DON PARKER, P.E. TRAFFIC CONTROL PROJECT ENGINEER
SPENCER B. JENNINGS TRAFFIC CONTROL PROJECT DESIGN ENGINEER
SPENCER B. JENNINGS TRAFFIC CONTROL DESIGN ENGINEER



SHEET NO.
TMP-1

TIP PROJECT: U-5724

ROADWAY STANDARD DRAWINGS

THE FOLLOWING ROADWAY STANDARDS AS SHOWN IN "ROADWAY STANDARD DRAWINGS" - PROJECT SERVICES UNIT - N.C. DEPARTMENT OF TRANSPORTATION - RALEIGH, N.C., DATED JANUARY 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
1101.11	TRAFFIC CONTROL DESIGN TABLES
1110.01	STATIONARY WORK ZONE SIGNS
1110.02	PORTABLE WORK ZONE SIGNS
1115.01	FLASHING ARROW BOARDS
1130.01	DRUM
1135.01	CONES
1145.01	BARRICADES
1150.01	FLAGGING DEVICES
1160.01	TEMPORARY CRASH CUSHION
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
1205.03	PAVEMENT MARKINGS - EXITS AND ENTRANCE RAMPS
1205.04	PAVEMENT MARKINGS - INTERSECTIONS
1205.05	PAVEMENT MARKINGS - TURN LANES
1205.07	PAVEMENT MARKINGS - PEDESTRIAN CROSSWALKS
1205.08	PAVEMENT MARKINGS - SYMBOLS AND WORD MESSAGES
1205.09	PAVEMENT MARKINGS - PAINTED ISLANDS
1205.11	PAVEMENT MARKINGS - RAILROAD CROSSINGS
1205.13	PAVEMENT MARKINGS - LANE REDUCTIONS
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
- WEDGING
- REMOVAL

SIGNALS

- EXISTING
- PROPOSED
- TEMPORARY

PAVEMENT MARKINGS

- EXISTING LINES
- TEMPORARY LINES

TRAFFIC CONTROL DEVICES

- BARRICADE (TYPE III)
- CONE
- TUBULAR MARKER
- SKINNY DRUM
- 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

PAVEMENT MARKING LINES

- PA - PAINT (4" WHITE, 2X) EDGELINE
- PB - PAINT (4" YELLOW, 2X) EDGELINE
- PC - PAINT (4" WHITE, 2X) 10' SKIP
- PD - PAINT (4" WHITE, 2X) 3' - 9'/SP MINISKIP
- PE - PAINT (4" WHITE, 2X) SOLID LANE LINE
- PF - PAINT (4" YELLOW, 2X) 10' SKIP
- PG - PAINT (4" YELLOW, 2X) 3' - 9'/SP MINISKIP
- PH - PAINT (4" YELLOW, 2X) SINGLE CENTER LINE
- PI - PAINT (4" YELLOW, 2X) DOUBLE CENTER LINE
- PP - PAINT (8" YELLOW, 2X) DIAGONAL
- PQ - PAINT (8" WHITE, 2X) CROSSWALK
- P1 - PAINT (16" WHITE, 2X) RR X
- P2 - PAINT (24" WHITE, 2X) STOP BAR
- P8 - PAINT (4" WHITE, 2X) 2' - 6'/SP MINISKIP
- P9 - PAINT (4" YELLOW, 2X) 2' - 6'/SP MINISKIP

PAVEMENT MARKING SYMBOLS

- QA - PAINT 2X (LEFT TURN ARROW)
- QB - PAINT 2X (RIGHT TURN ARROW)
- QC - PAINT 2X (STRAIGHT ARROW)
- QD - PAINT 2X (COMBINATION STRAIGHT & LEFT TURN ARROW)
- QE - PAINT 2X (COMBINATION STRAIGHT & RIGHT TURN ARROW)
- QG - PAINT 2X (COMBINATION STRAIGHT, RIGHT, & LEFT TURN ARROW)
- QI - PAINT 2X (ALPHANUMERIC CHARACTER)

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3/16/2020

Kimley»Horn

APPROVED: _____	DATE: _____		
ROADWAY STANDARD DRAWINGS & LEGEND			

MANAGEMENT STRATEGIES

PROPOSED IMPROVEMENTS ALONG -L- ROYALL AVENUE, -L- CENTRAL HEIGHTS, -Y1- US 13 (BERKELEY BOULEVARD), -Y2- OAK FOREST RD AND -Y2- FALLIN BOULEVARD WILL BE CONSTRUCTED WHILE MAINTAINING TRAFFIC AND USING TEMPORARY TRAFFIC PATTERNS WITH TEMPORARY SIGNALS, TEMPORARY ROAD CLOSURES AND TEMPORARY LANE CLOSURES.

GENERAL NOTES

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

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

TIME RESTRICTIONS

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

<u>ROAD NAME</u>	<u>DAY AND TIME RESTRICTIONS</u>
ROYALL AVE CENTRAL HEIGHTS ROAD US 13 (BERKELEY BOULEVARD) OAK FOREST ROAD	6:00 AM TO 9:00 AM 4:00 PM TO 7:00 PM MONDAY THRU FRIDAY

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

<u>ROAD NAME</u>
ROYALL AVE CENTRAL HEIGHTS ROAD US 13 (BERKELEY BOULEVARD) OAK FOREST ROAD

HOLIDAY

- FOR UNEXPECTED OCCURRENCE THAT CREATES UNUSUALLY HIGH TRAFFIC VOLUMES, AS DIRECTED BY THE ENGINEER.**
- FOR NEW YEAR'S, BETWEEN THE HOURS OF 6:00 A.M. DECEMBER 31st TO 9:00 P.M. JANUARY 2ND. IF NEW YEAR'S DAY IS ON A FRIDAY, SATURDAY, SUNDAY, OR MONDAY THEN UNTIL 9:00 P.M. THE FOLLOWING TUESDAY.**
- FOR EASTER, BETWEEN THE HOURS OF 6:00 A.M. THURSDAY AND 9:00 P.M. MONDAY.**
- FOR MEMORIAL DAY, BETWEEN THE HOURS OF 6:00 A.M. FRIDAY TO 9:00 P.M. TUESDAY.**
- FOR INDEPENDENCE DAY, BETWEEN THE HOURS OF 6:00 A.M. THE DAY BEFORE INDEPENDENCE DAY AND 9:00 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 9:00 P.M. THE TUESDAY AFTER INDEPENDENCE DAY.

- FOR LABOR DAY, BETWEEN THE HOURS OF 6:00 A.M. FRIDAY AND 9:00 P.M. TUESDAY.**

TIME RESTRICTIONS (CONT.)

- FOR THANKSGIVING DAY, BETWEEN THE HOURS OF 6:00 A.M. TUESDAY TO 9:00 P.M. MONDAY.**
- FOR CHRISTMAS, BETWEEN THE HOURS OF 6:00 A.M. THE FRIDAY BEFORE THE WEEK OF CHRISTMAS DAY AND 9:00 P.M. THE FOLLOWING TUESDAY AFTER THE WEEK OF CHRISTMAS DAY.**

C) DO NOT CLOSE ROADS AS FOLLOWS:

<u>ROAD NAME</u>	<u>DAY AND TIME RESTRICTIONS</u>
US 13 (BERKELEY BOULEVARD) ROYALL AVENUE	6:00 A.M. TO 7:00 P.M. MONDAY THRU SUNDAY

D) 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

- 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.**
- 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.**

G) 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.

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.

PAVEMENT EDGE DROP OFF REQUIREMENTS

I) BACKFILL AT A 6:1 SLOPE UP TO THE EDGE AND ELEVATION OF EXISTING PAVEMENT IN AREAS ADJACENT TO AN OPENED TRAVEL LANE THAT HAS AN EDGE OF PAVEMENT DROP-OFF AS FOLLOWS:

BACKFILL DROP-OFFS THAT EXCEED 2 INCHES ON ROADWAYS WITH POSTED SPEED LIMITS OF 45 MPH OR GREATER.

BACKFILL DROP-OFFS THAT EXCEED 3 INCHES ON ROADWAYS WITH POSTED SPEED LIMITS LESS THAN 45 MPH.


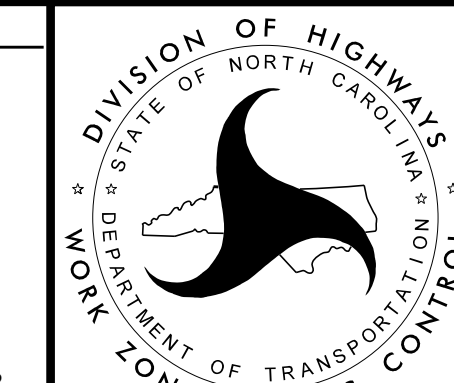
BACKFILL WITH SUITABLE COMPACTED MATERIAL, AS APPROVED BY THE ENGINEER, AT NO EXPENSE TO THE DEPARTMENT.

J) DO NOT EXCEED A DIFFERENCE OF 2 INCHES IN ELEVATION BETWEEN OPEN LANES OF TRAFFIC FOR NOMINAL LIFTS OF 1.5 INCHES. INSTALL ADVANCE WARNING "UNEVEN LANES" SIGNS (W8-11) 500 ft IN ADVANCE AND A MINIMUM OF EVERY HALF MILE THROUGHOUT THE UNEVEN AREA.

TRAFFIC PATTERN ALTERATIONS

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



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GENERAL NOTES (CONT.)

SIGNING

- L) **INSTALL ADVANCE WORK ZONE WARNING SIGNS WHEN WORK IS WITHIN 40 FT FROM THE EDGE OF TRAVEL LANE AND NO MORE THAN THREE (3) DAYS PRIOR TO THE BEGINNING OF CONSTRUCTION.**
- M) **PROVIDE SIGNING AND DEVICES REQUIRED TO CLOSE THE ROAD ACCORDING TO THE ROADWAY STANDARD DRAWINGS AND TRAFFIC CONTROL PLANS.**

PROVIDE SIGNING REQUIRED FOR THE OFF-SITE DETOUR ROUTE AS SHOWN IN THE TRAFFIC CONTROL PLANS.
- N) **COVER OR REMOVE ALL SIGNS AND DEVICES REQUIRED TO CLOSE THE ROAD WHEN ROAD CLOSURE IS NOT IN OPERATION.**

COVER OR REMOVE ALL SIGNS REQUIRED FOR THE OFF-SITE DETOUR WHEN THE DETOUR IS NOT IN OPERATION.
- O) **ENSURE ALL NECESSARY SIGNING IS IN PLACE PRIOR TO ALTERING ANY TRAFFIC PATTERN.**
- P) **INSTALL BLACK ON ORANGE "DIP" SIGNS (W8-2) AND/OR "BUMP" SIGNS (W8-1) 500 ft IN ADVANCE OF THE UNEVEN AREA, OR AS DIRECTED BY THE ENGINEER.**

TRAFFIC CONTROL DEVICES

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

PAVEMENT MARKINGS AND MARKERS

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

<u>ROAD NAME</u>	<u>MARKING</u>	<u>MARKER</u>
ALL ROADS	PAINT	NONE

- U) **PLACE ONE APPLICATION OF PAINT FOR TEMPORARY TRAFFIC PATTERNS. PLACE A SECOND APPLICATION OF PAINT SIX (6) MONTHS AFTER THE INITIAL APPLICATION AND EVERY SIX MONTHS AS DIRECTED BY THE ENGINEER.**
- V) **TIE PROPOSED PAVEMENT MARKING LINES TO EXISTING PAVEMENT MARKING LINES.**
- W) **REMOVE/REPLACE ANY CONFLICTING/DAMAGED PAVEMENT MARKINGS AND MARKERS BY THE END OF EACH DAY'S OPERATION.**
- X) **TRACE THE EXISTING AND PROPOSED MONOLITHIC ISLAND LOCATIONS WITH PROPER COLOR PAVEMENT MARKINGS PRIOR TO REMOVAL AND INSTALLATION. PLACE DRUMS TO DELINEATE ANY EXISTING AND PROPOSED MONOLITHIC ISLANDS AFTER REMOVAL AND BEFORE INSTALLATION**

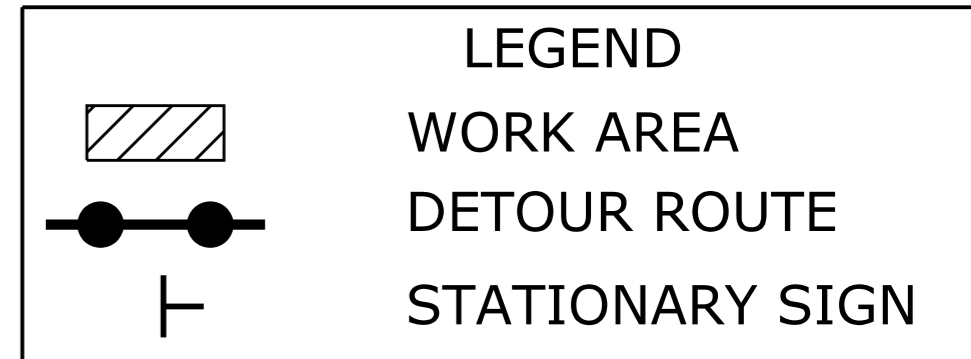
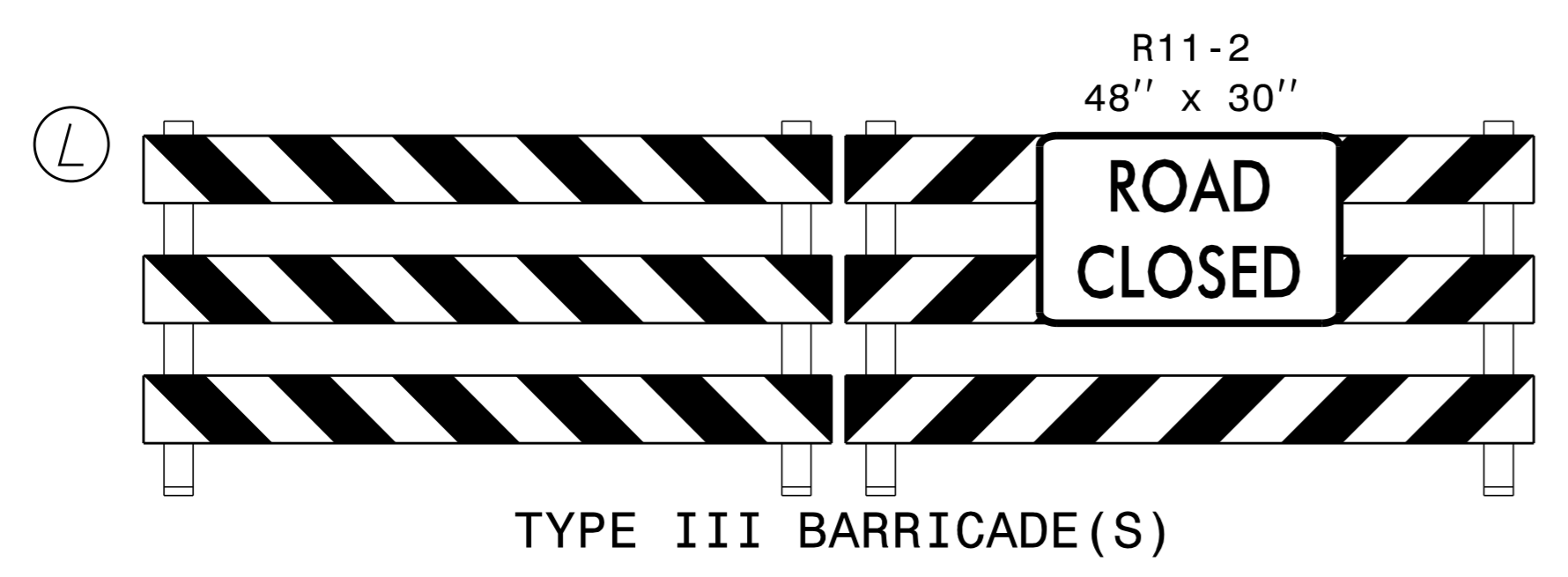
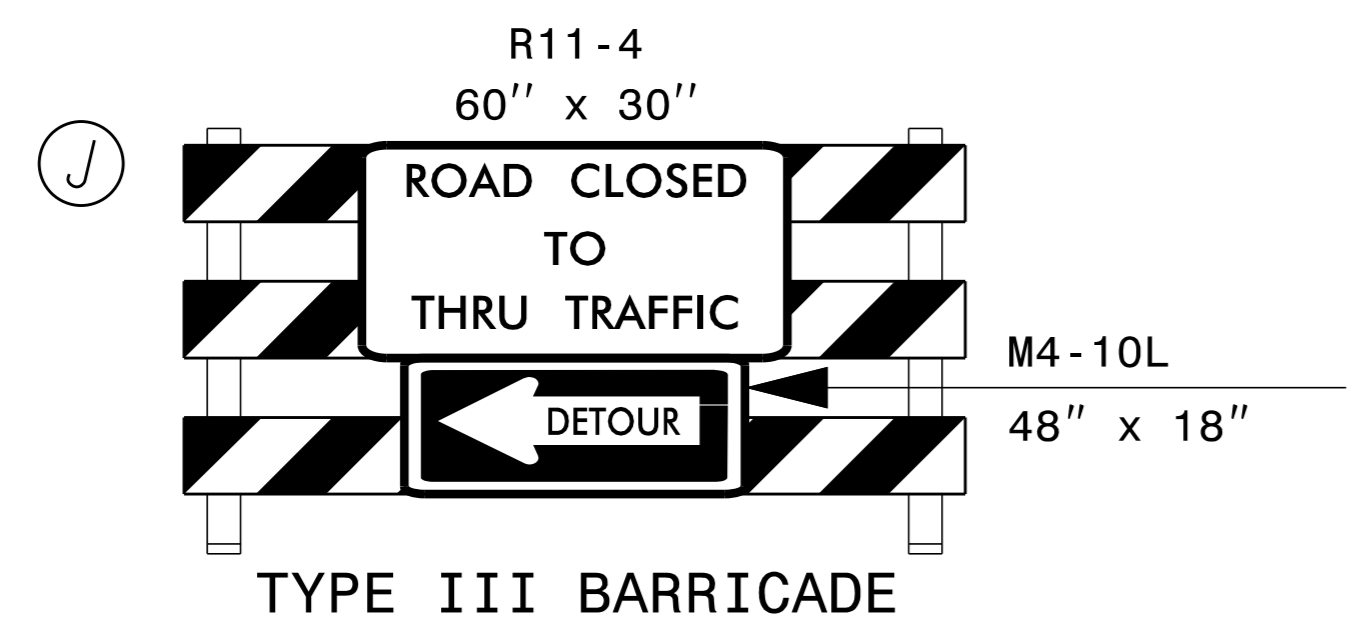
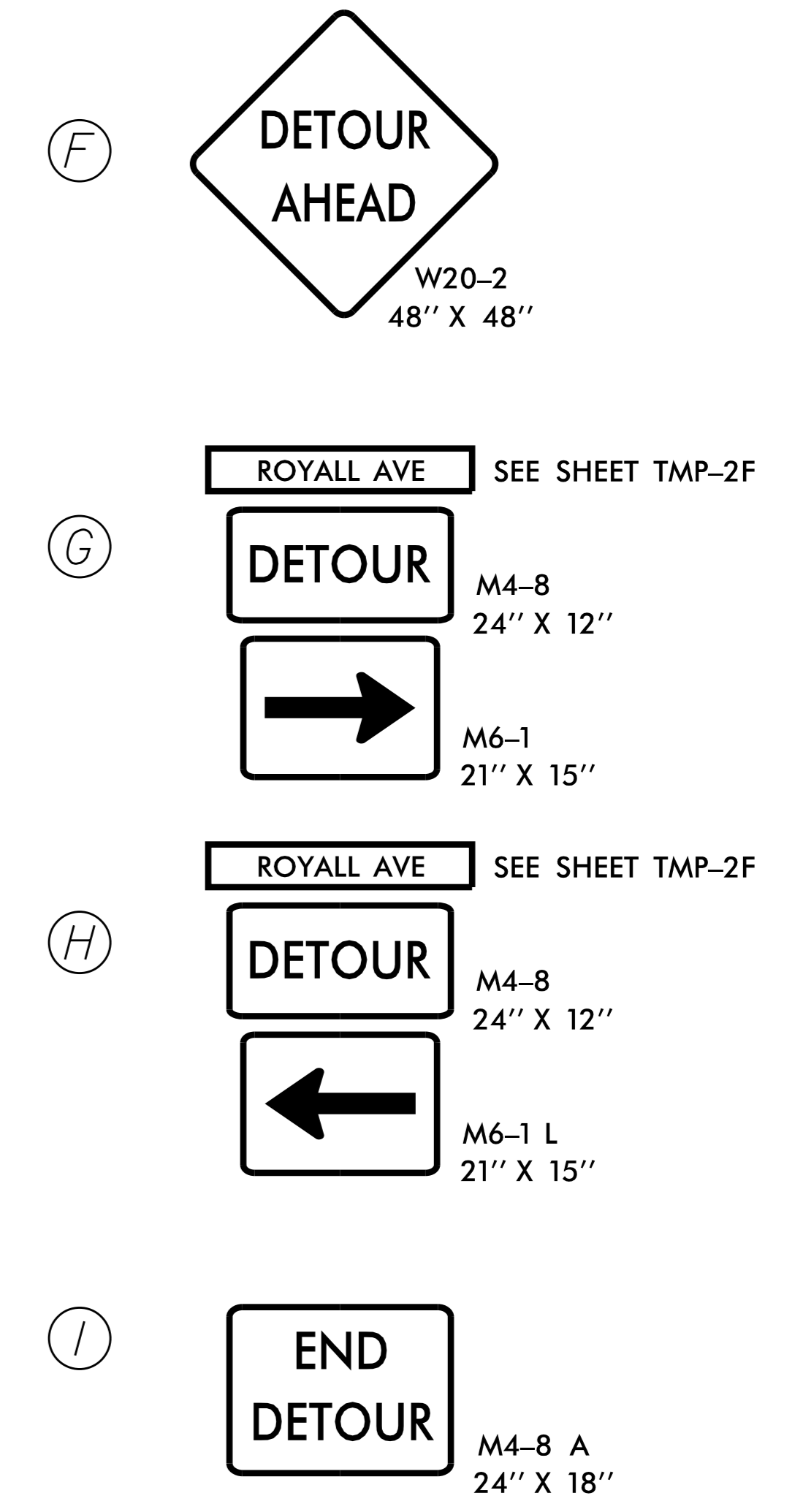
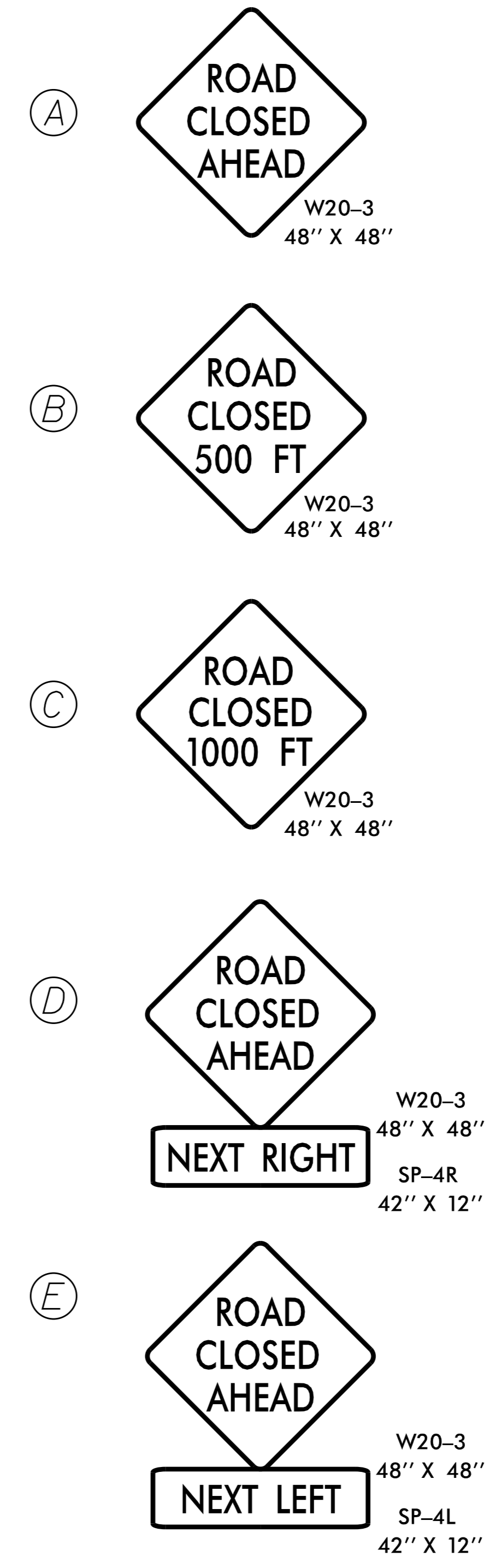
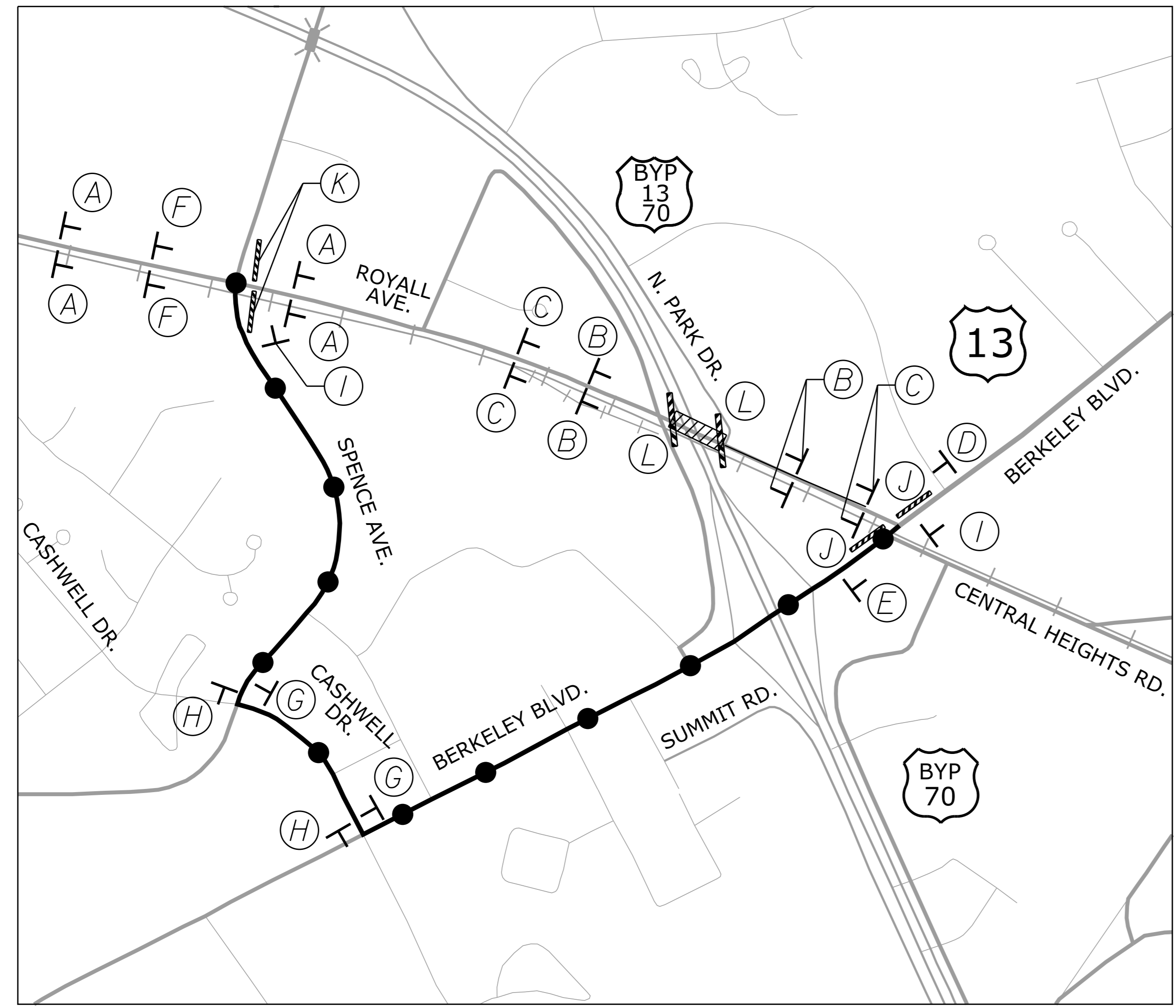
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- Y) **LAW ENFORCEMENT MAY BE USED TO MAINTAIN TRAFFIC THROUGH THE WORK AREA AND/OR INTERSECTIONS AS DIRECTED BY THE ENGINEER.**
- Z) **IN THE EVENT A TIE-IN CANNOT BE MADE IN ONE DAY'S TIME, BRING THE TIE-IN AREA TO AN APPROPRIATE ROADWAY ELEVATION AS DETERMINED BY THE ENGINEER. PLACE BLACK ON ORANGE "LOOSE GRAVEL" SIGNS (W8-7) AND BLACK ON ORANGE "PAVEMENT ENDS" SIGNS (W8-3) AND RESPECTIVELY IN ADVANCE OF THE UNEVEN AREAS. USE DRUMS TO DELINEATE THE EDGE OF ROADWAY ALONG UNPAVED AREAS.**
- AA) **ALL WHEELCHAIR 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.**
- BB) **COORDINATE WITH NCRR FOR ALL WORK OCCURRING WITHIN RAILROAD RIGHT OF WAY.**

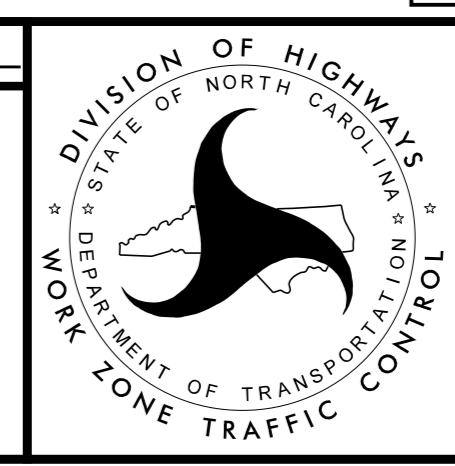
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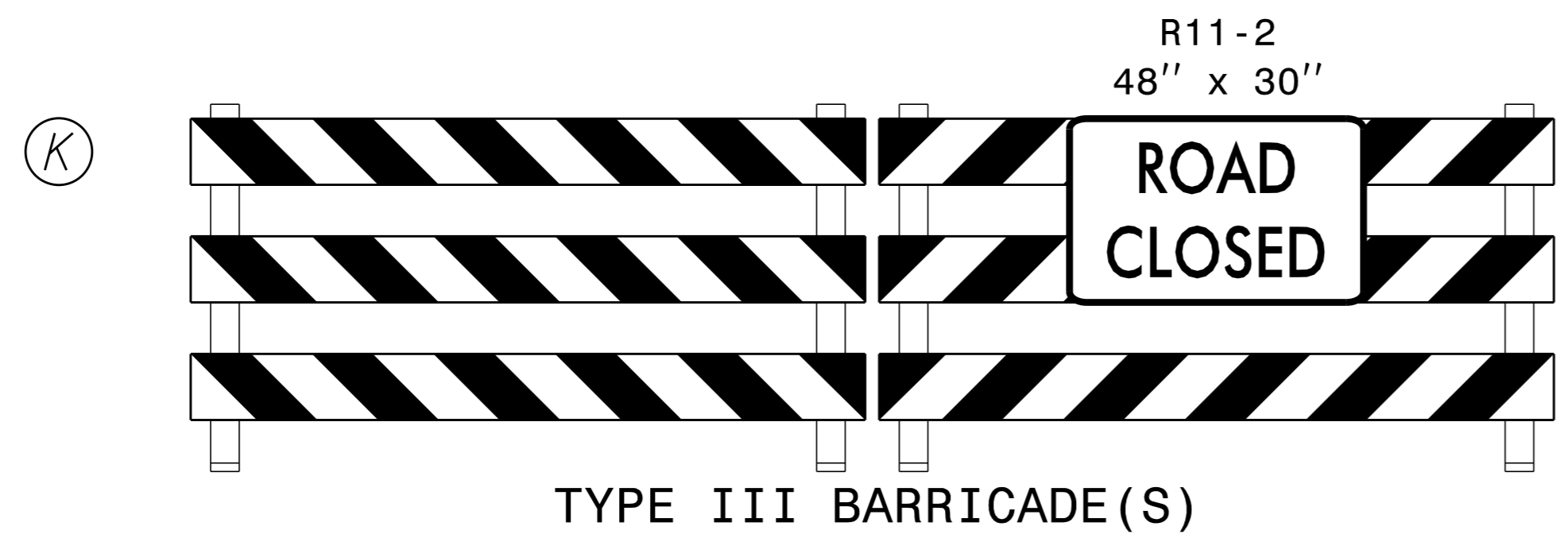
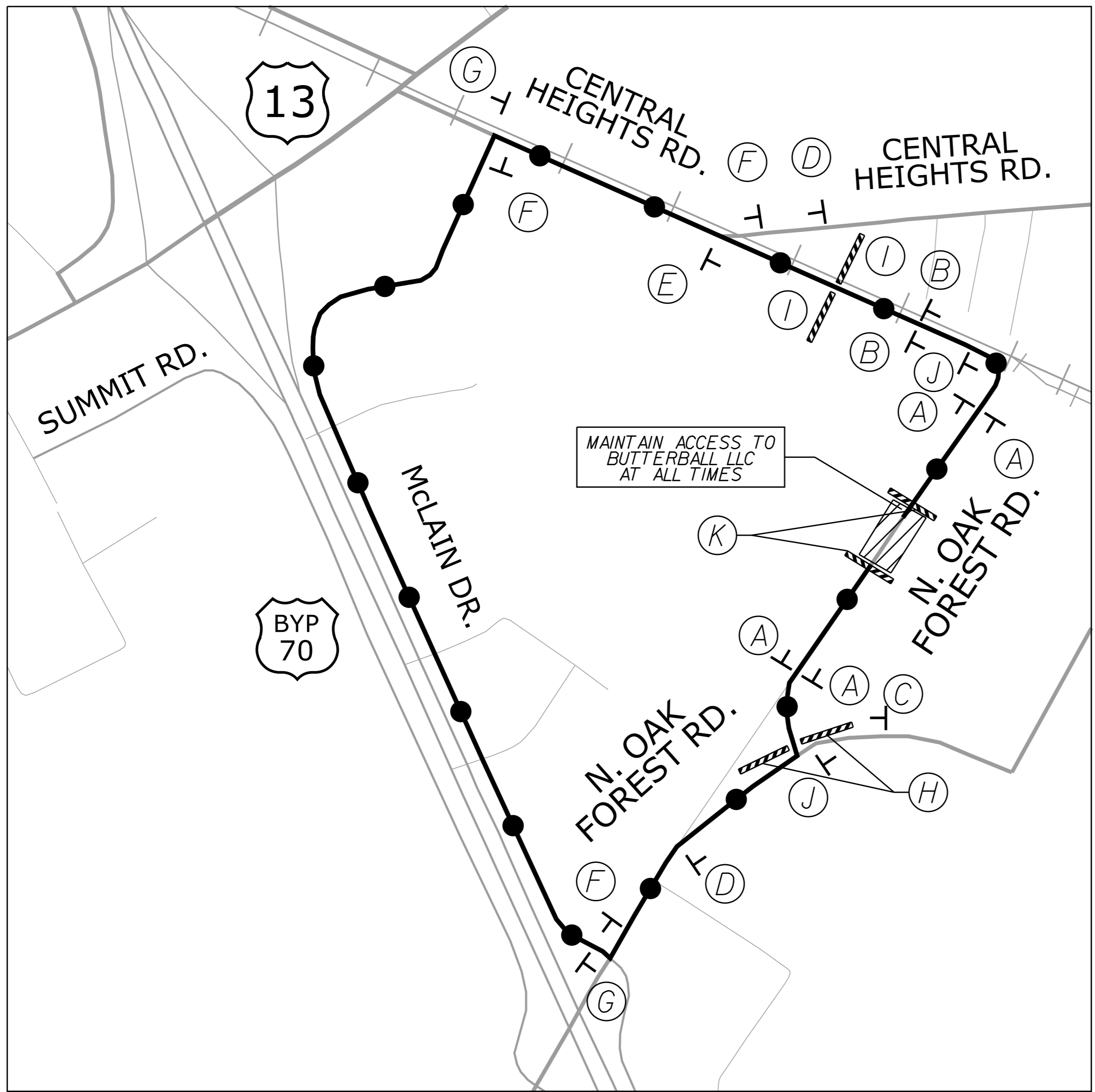
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**DETOUR SHEET
ROYALL AVE.**



- (A) ROAD CLOSED 500 FT
W20-3
48'' X 48''
- (B) ROAD CLOSED 1000 FT
W20-3
48'' X 48''
- (C) ROAD CLOSED AHEAD
W20-3
48'' X 48''
 NEXT RIGHT
SP-4R
42'' X 12''
- (D) ROAD CLOSED AHEAD
W20-3
48'' X 48''
 NEXT LEFT
SP-4L
42'' X 12''
- (E) N. OAK FOREST RD. SEE SHEET TMP-2F
 DETOUR
M4-8
24'' X 12''
 M6-3
21'' X 15''
- (F) N. OAK FOREST RD. SEE SHEET TMP-2F
 DETOUR
M4-8
24'' X 12''
 M6-1
21'' X 15''
- (G) N. OAK FOREST RD. SEE SHEET TMP-2F
 DETOUR
M4-8
24'' X 12''
 M6-1 L
21'' X 15''
- (H) R11-4
60'' x 30''
ROAD CLOSED TO THRU TRAFFIC
 DETOUR
M4-10L
48'' x 18''
TYPE III BARRICADE
- (I) R11-4
60'' x 30''
ROAD CLOSED TO THRU TRAFFIC
TYPE III BARRICADE
- (J) END DETOUR
M4-8 A
24'' X 18''

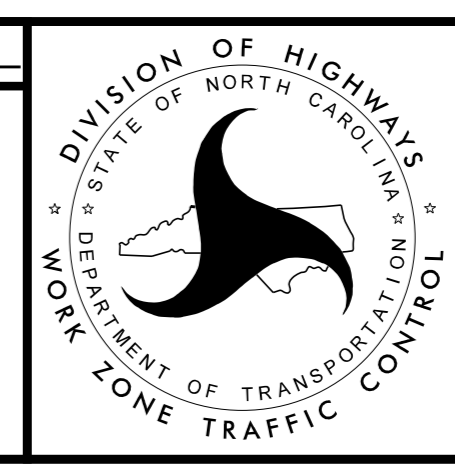
LEGEND

- WORK AREA
- DETOUR ROUTE
- STATIONARY SIGN

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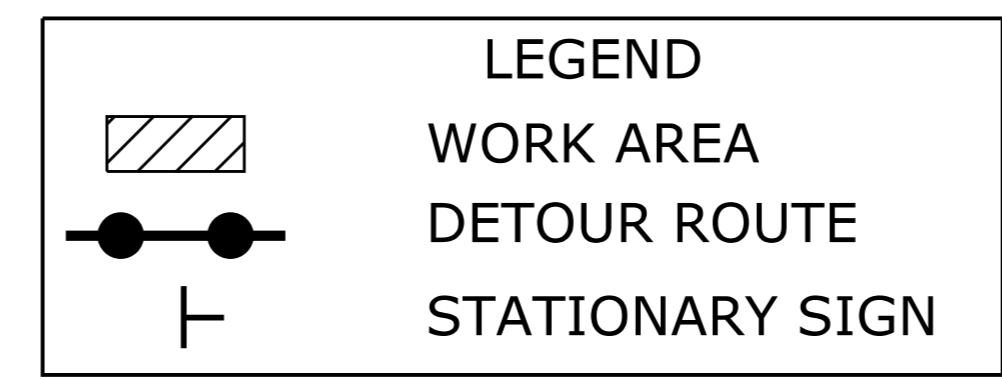
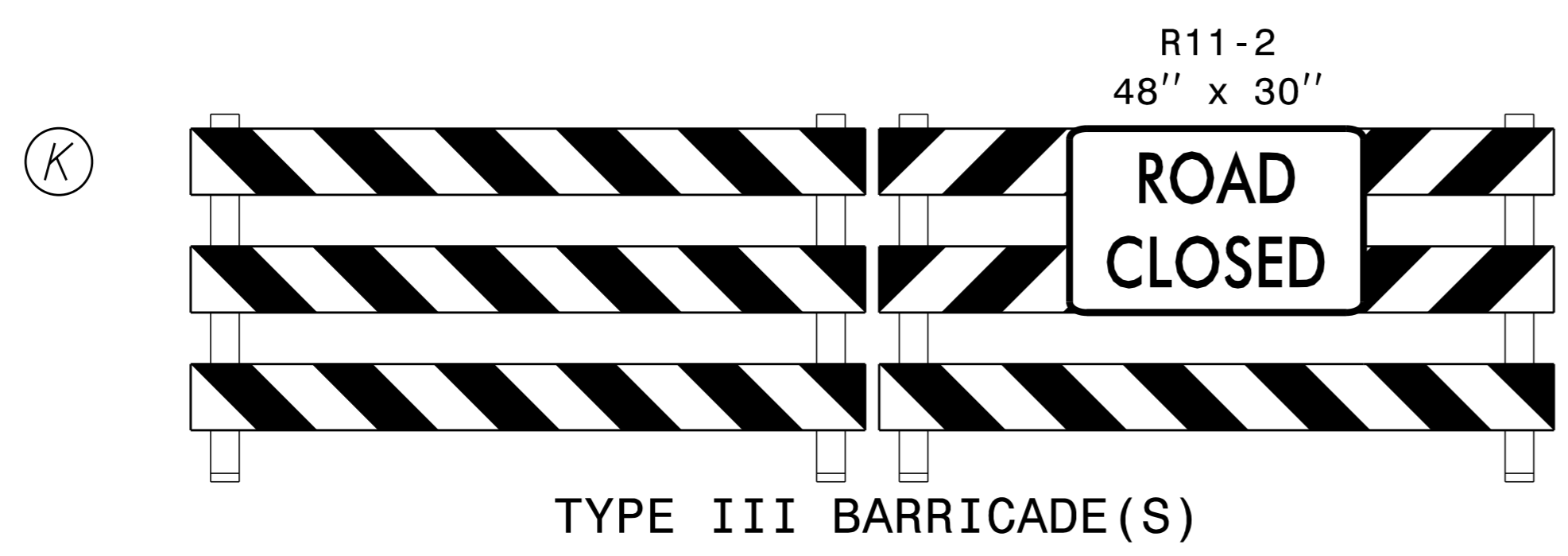
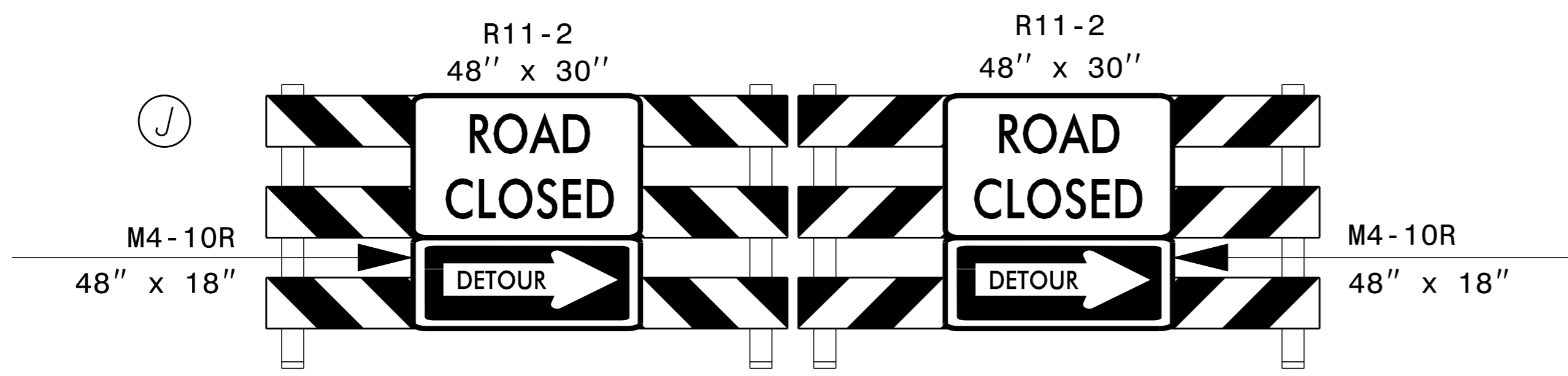
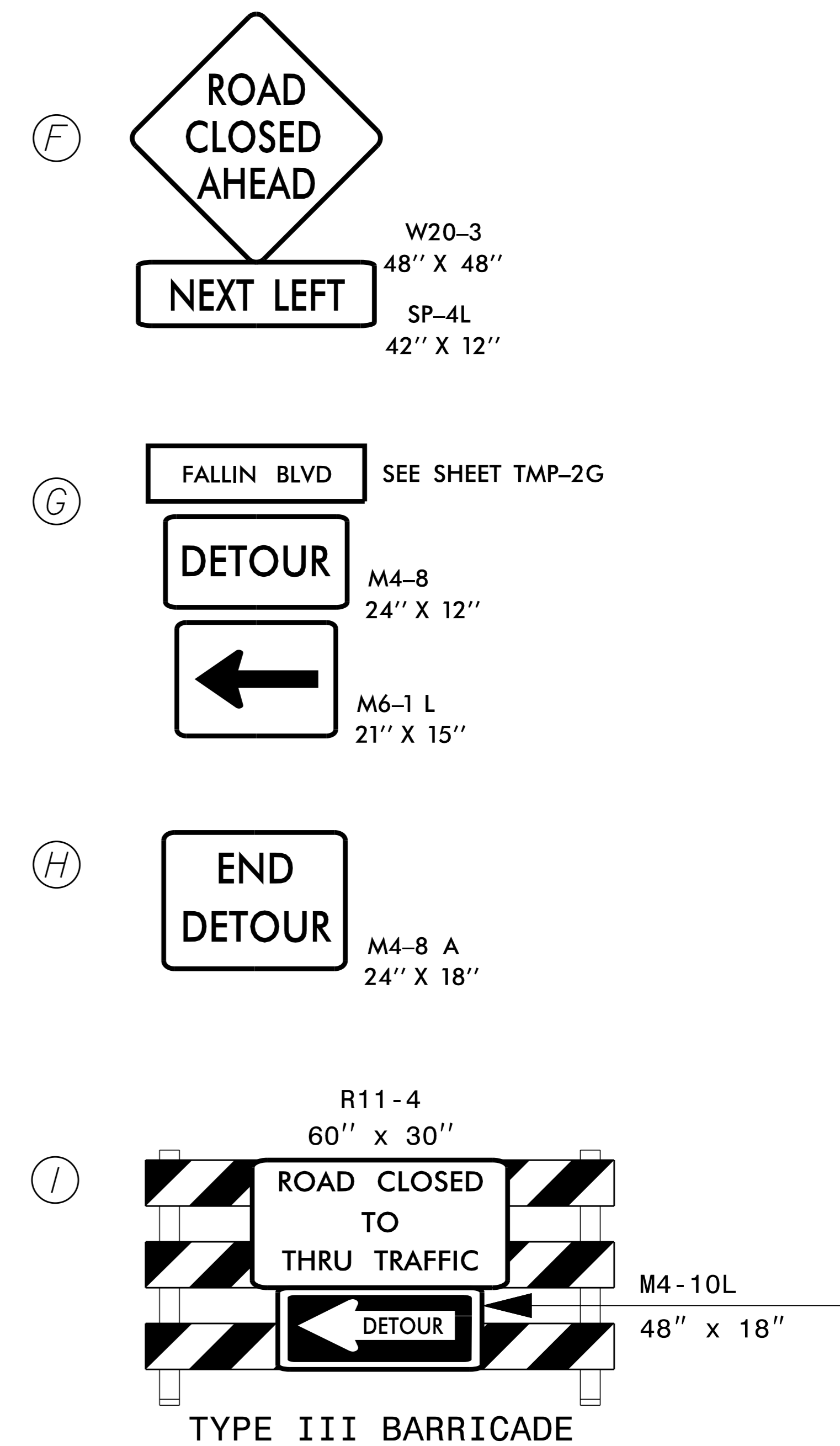
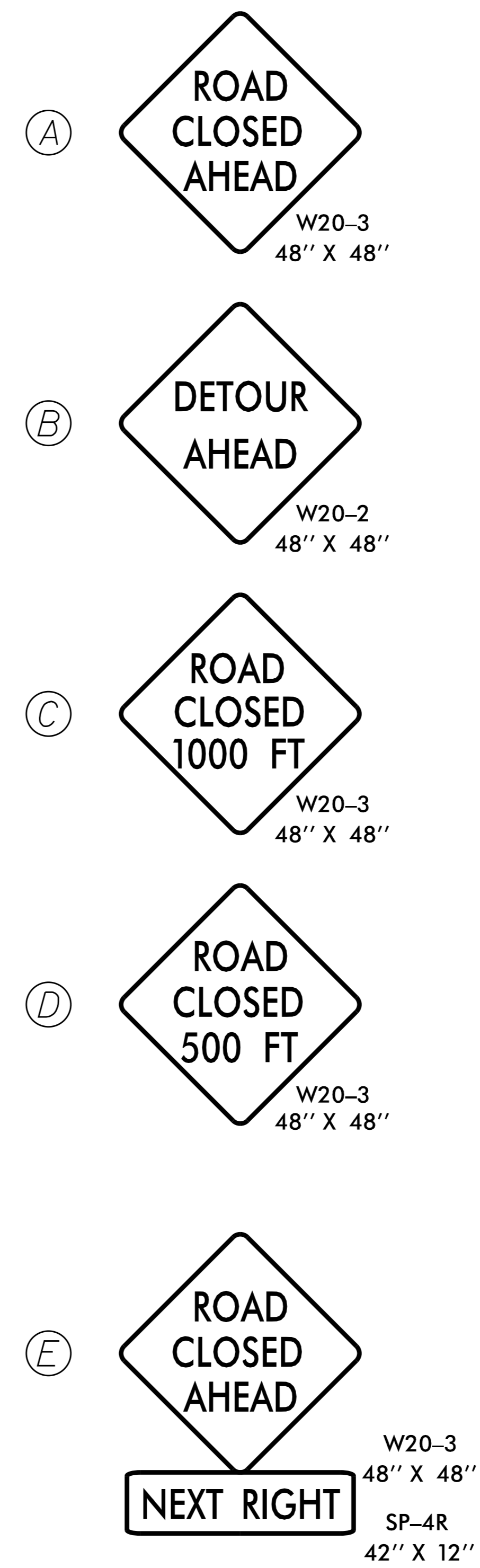
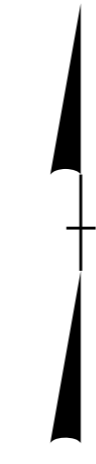
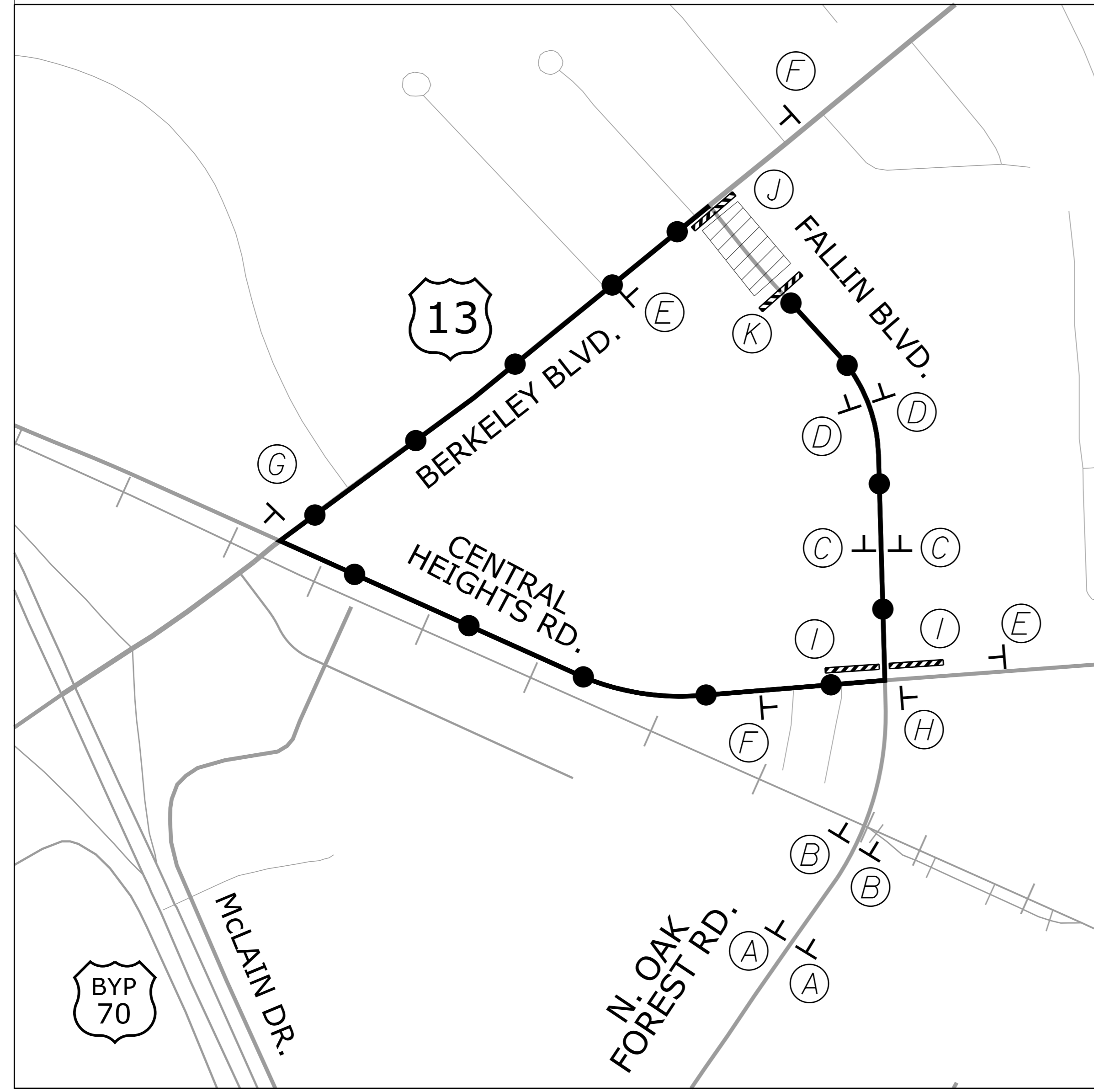
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DETOUR SHEET
N. OAK FOREST RD

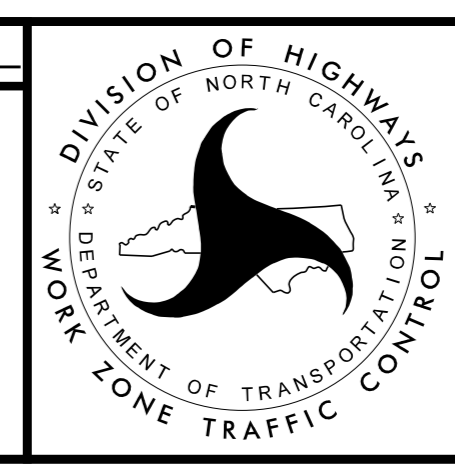
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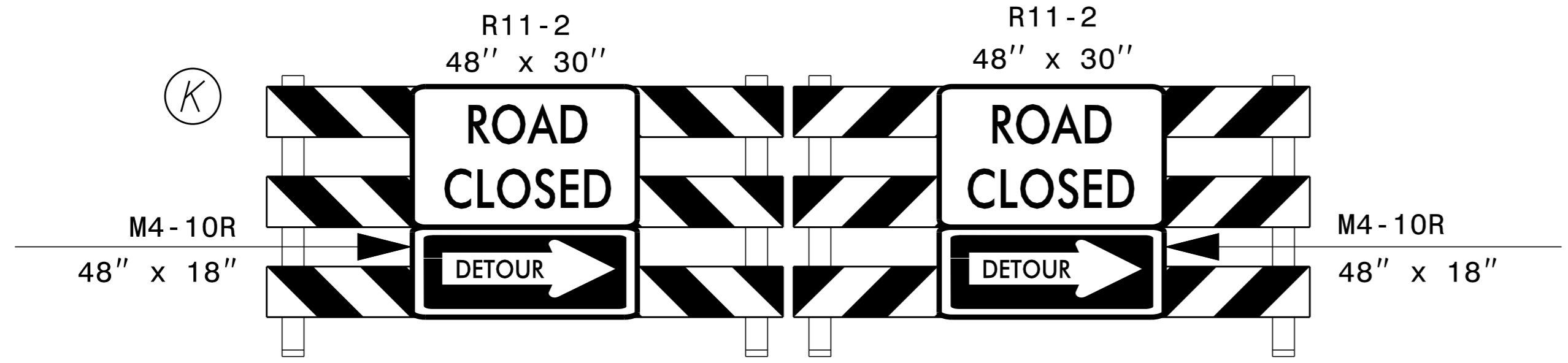
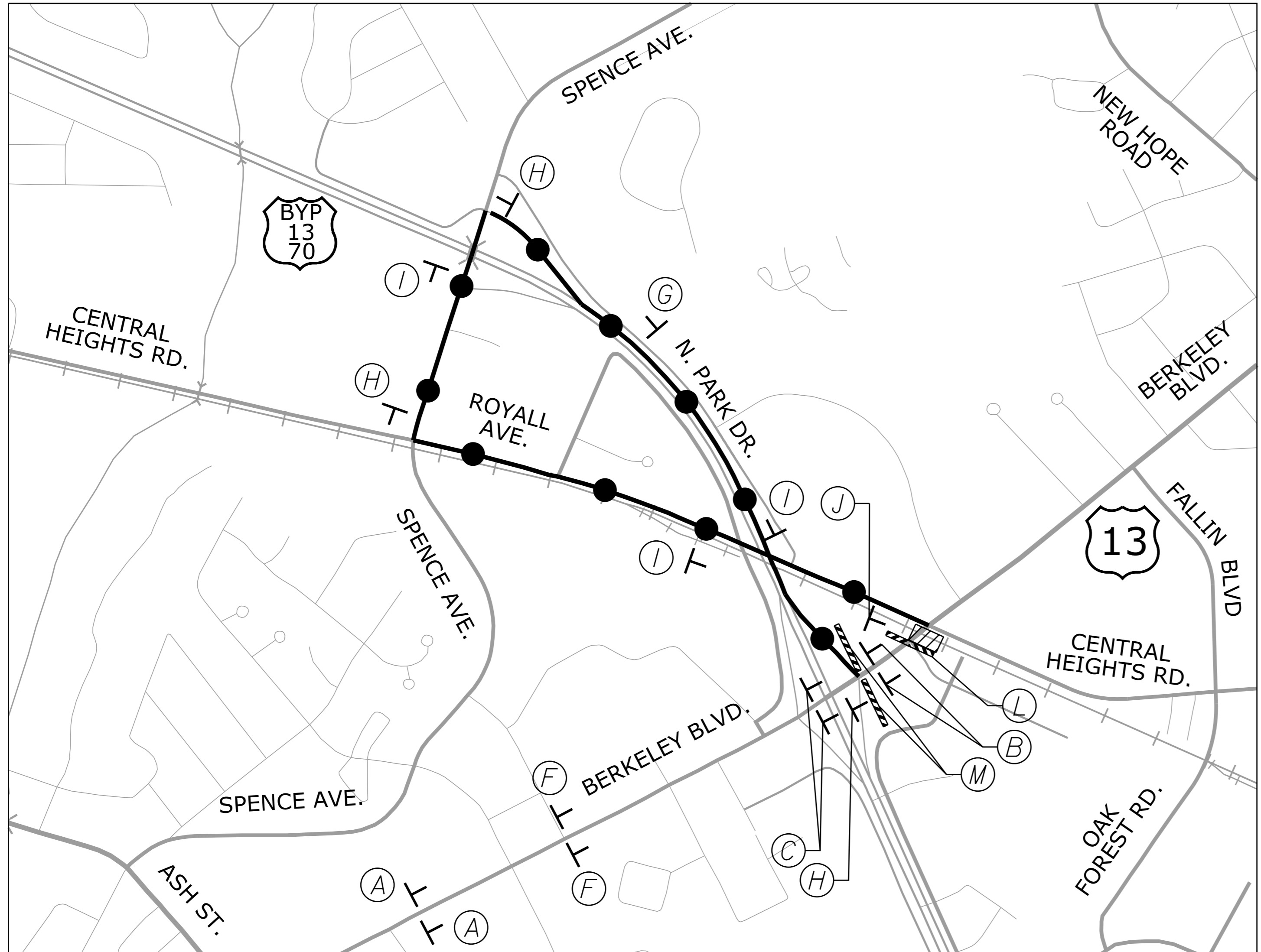
APPROVED: _____ DATE: _____

9/1/2022

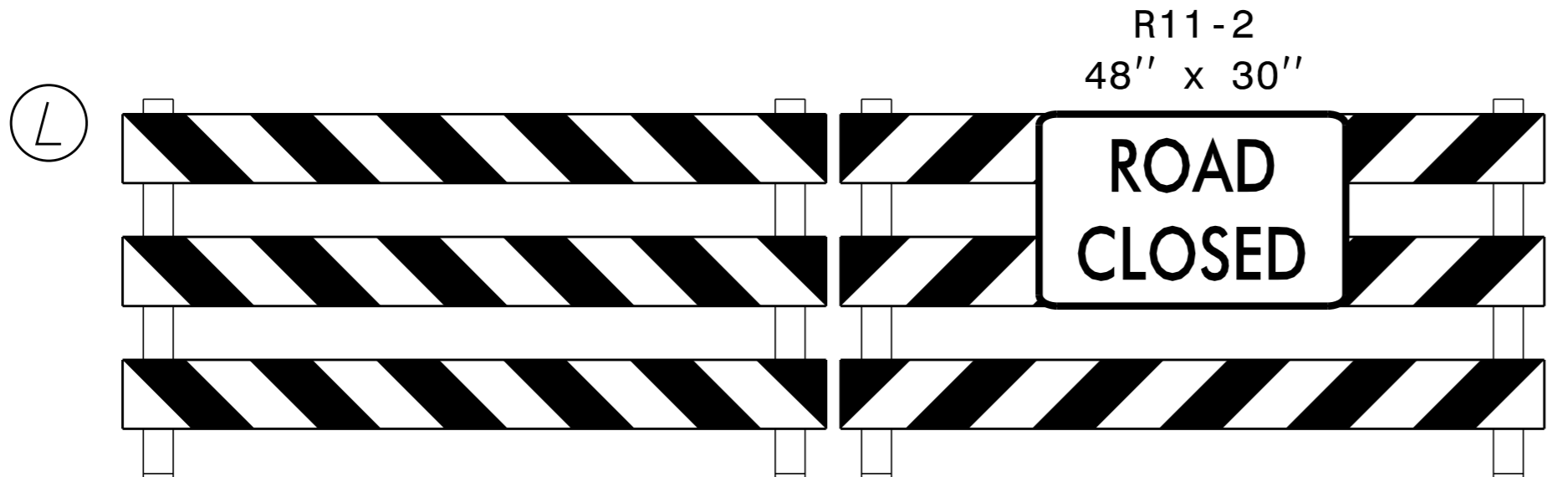


**DETOUR SHEET
FALLIN BLVD.**

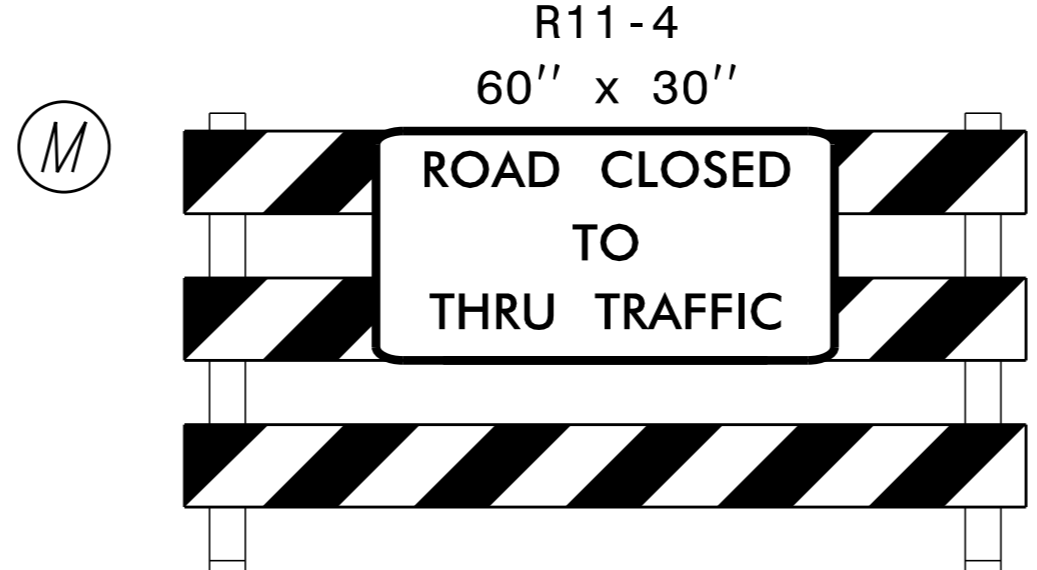
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TYPE III BARRICADE(S)



TYPE III BARRICADE(S)



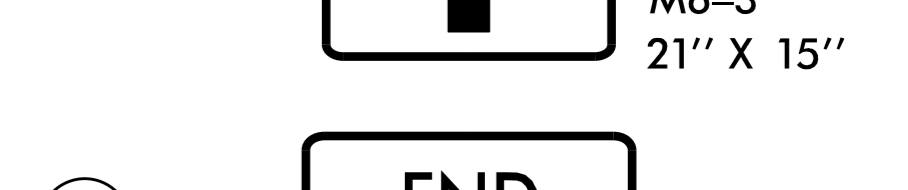
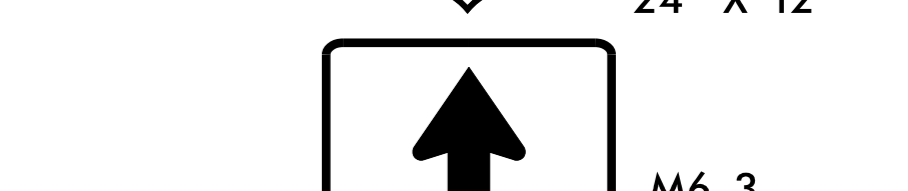
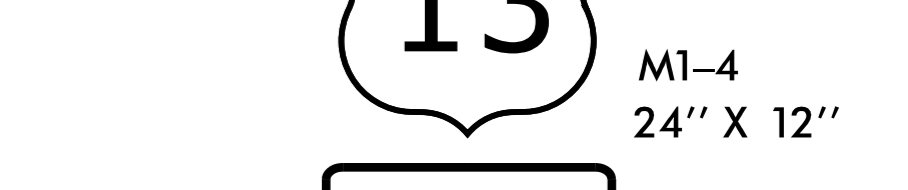
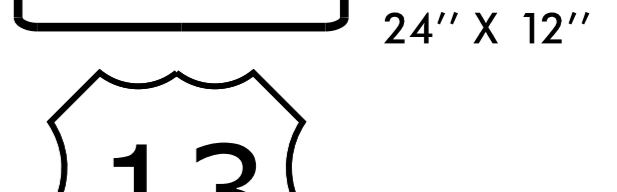
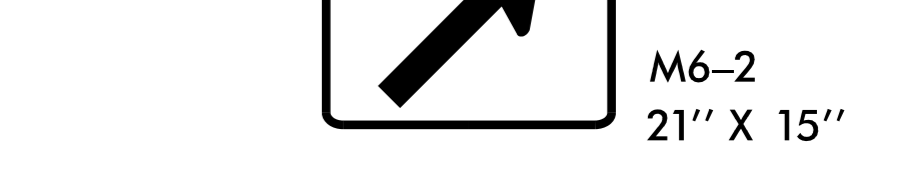
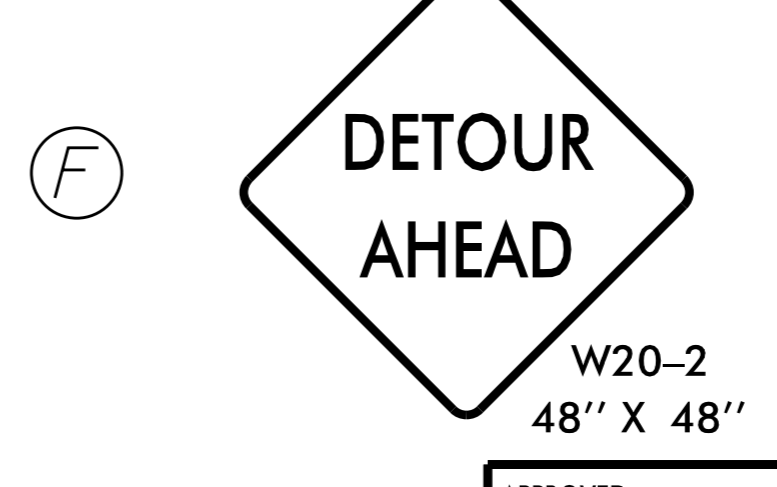
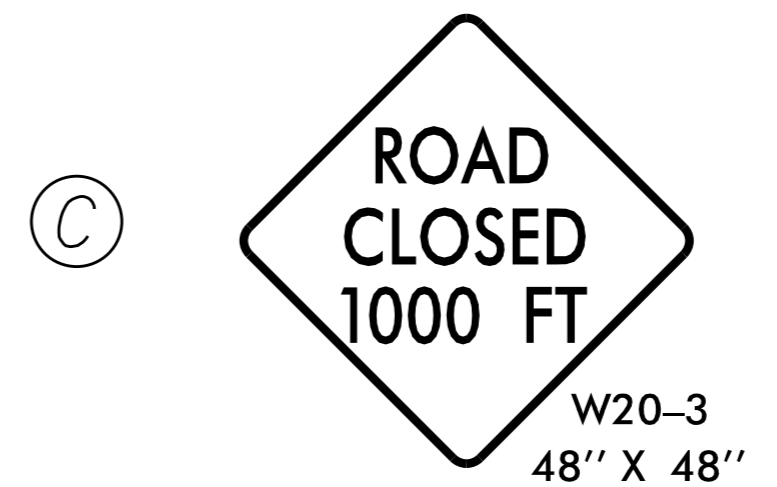
TYPE III BARRICADE

LEGEND

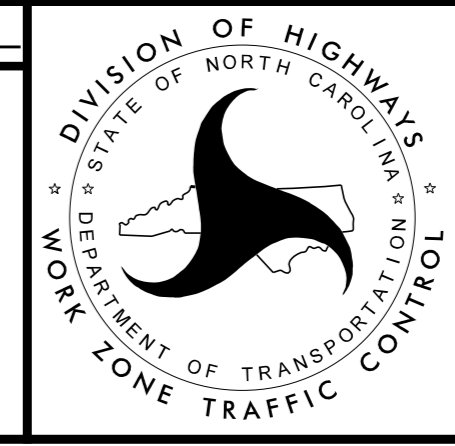
- WORK AREA
- DETOUR ROUTE
- STATIONARY SIGN

NOTES:

- 1.) ENSURE THAT SOUTHBOUND THRU TRAFFIC IS MAINTAINED AT ALL TIMES.
- 2.) DO NOT INSTALL THIS DETOUR SIMULTANEOUSLY WITH THE DETOUR SHOWN ON TMP-2E.

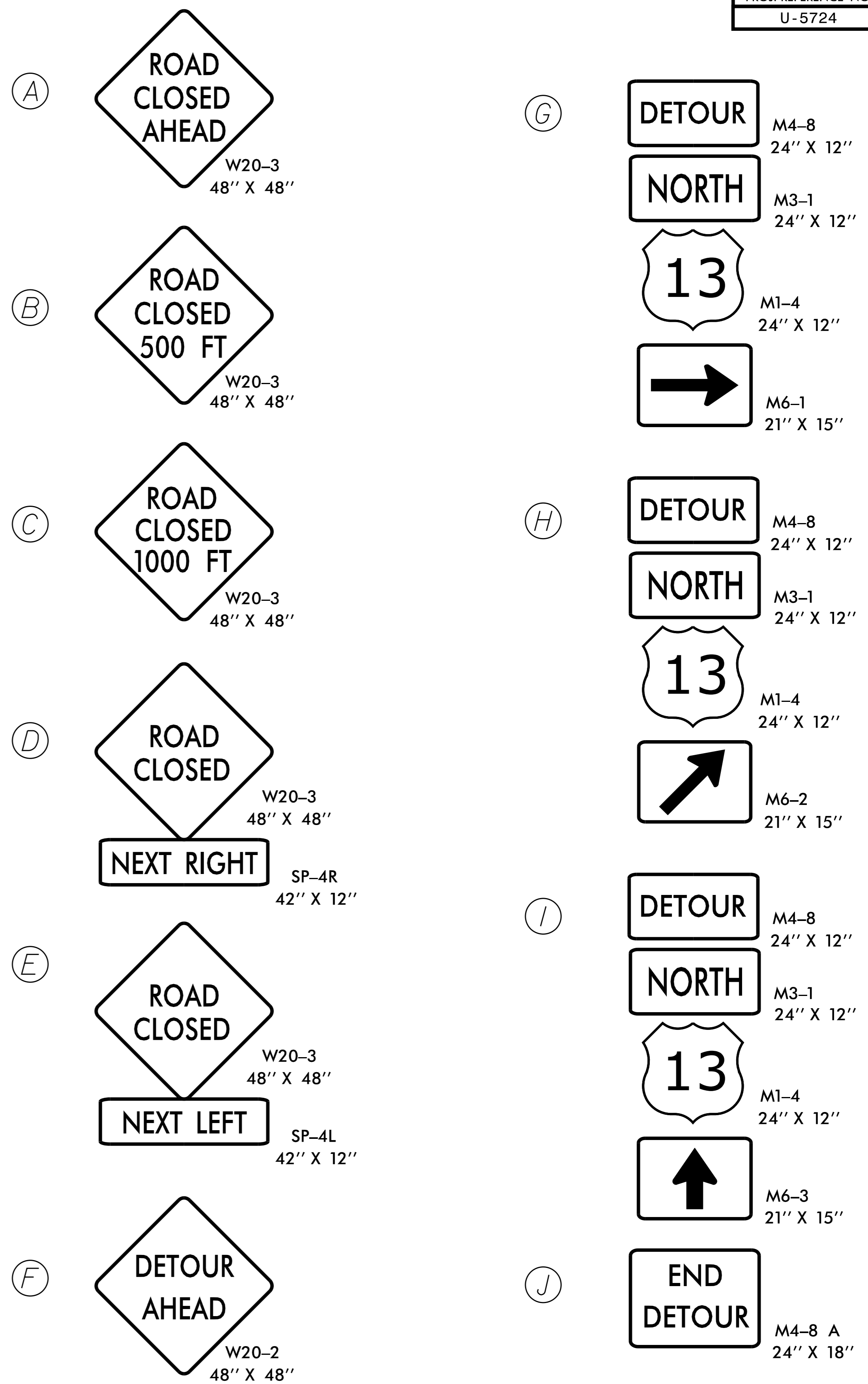
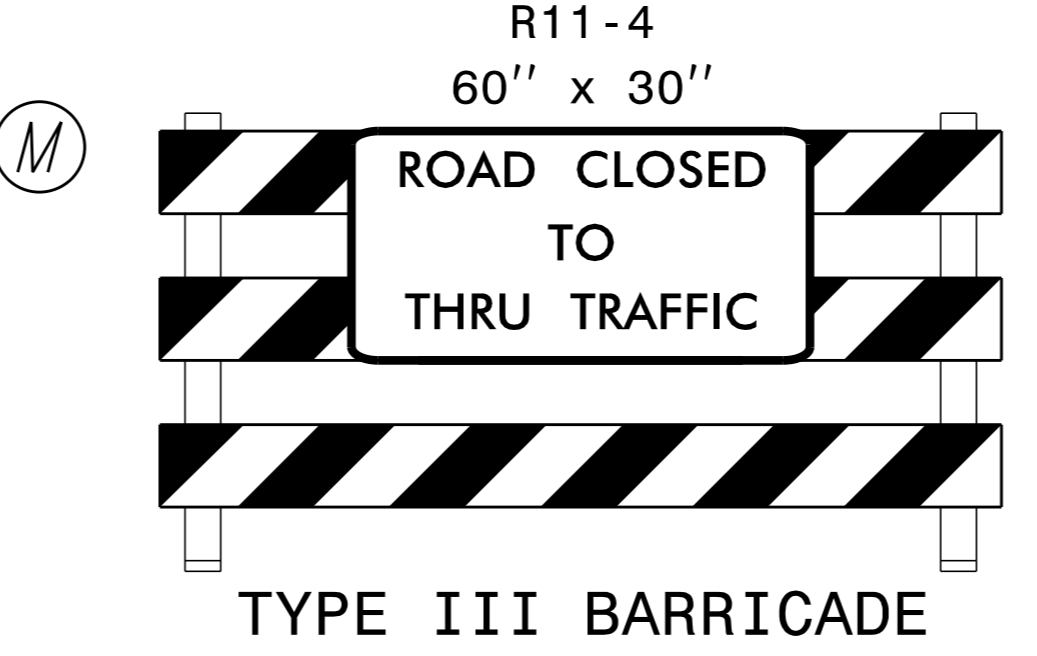
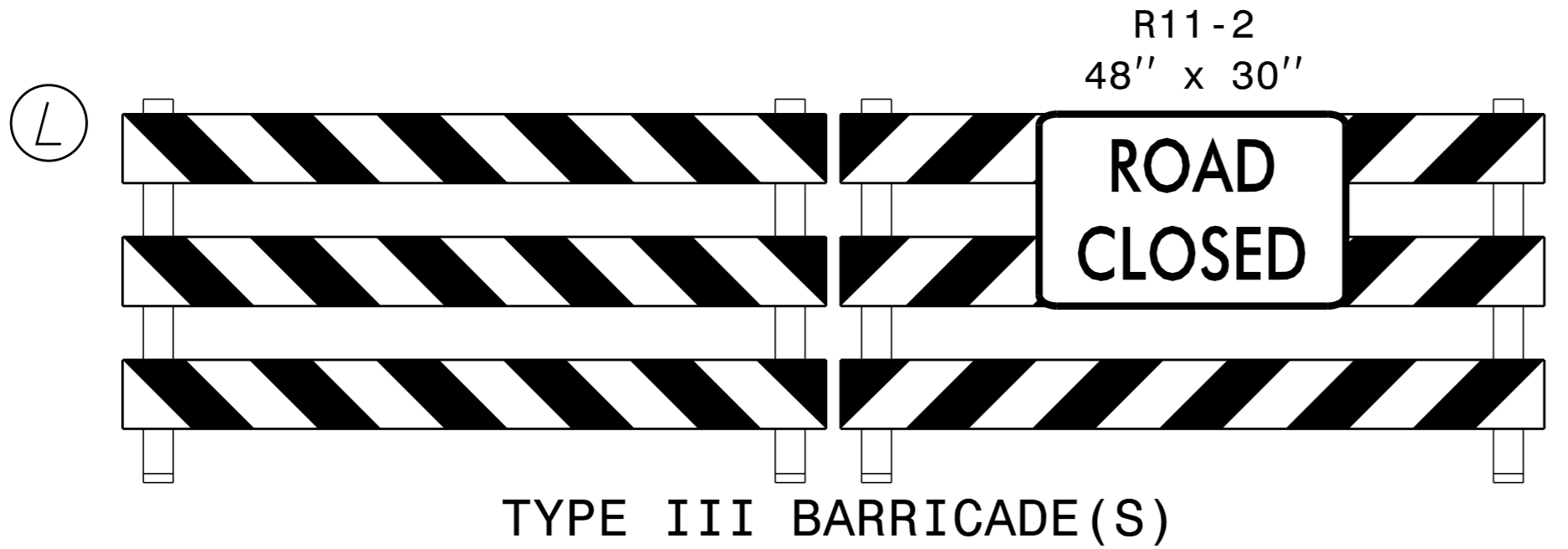
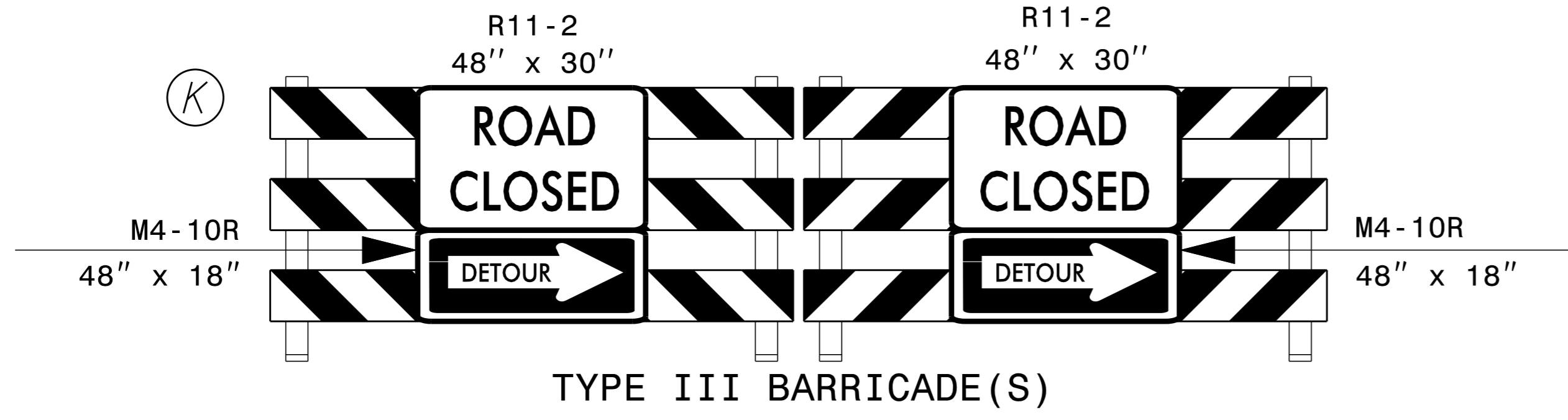
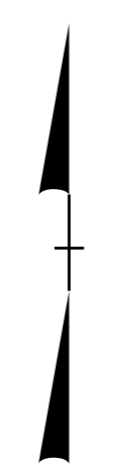
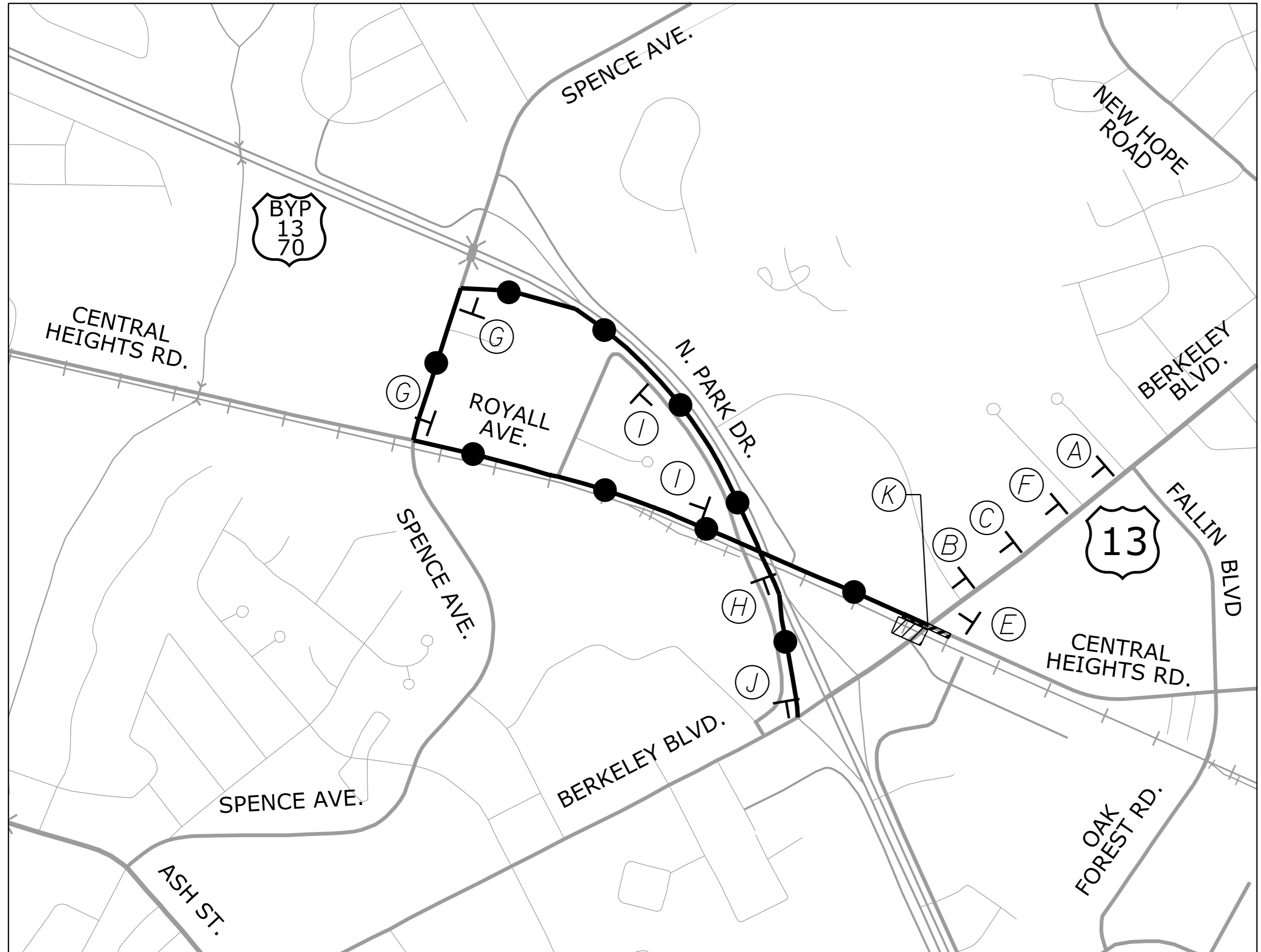


APPROVED: _____ DATE: _____



**DETOUR SHEET
NORTHBOUND
BERKELEY BLVD**

K:\RAL_Roadway\010363333 - U-5724 (Central Heights)\TrafficControl\CP\Sheets\U-5724_roy_tmp_2d.dgn 10/5/2022



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LEGEND	
	WORK AREA
	DETOUR ROUTE
	STATIONARY SIGN

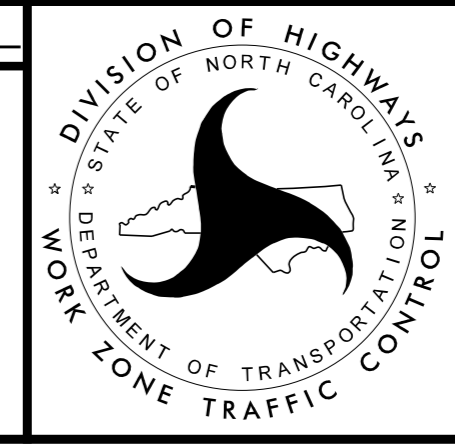
NOTES:

- 1.) ENSURE THAT NORTHBOUND THRU TRAFFIC IS MAINTAINED AT ALL TIMES.
- 2.) DO NOT INSTALL THIS DETOUR SIMULTANEOUSLY WITH THE DETOR SHOWN ON TMP-2D.

Kimley»Horn

APPROVED: _____ DATE: _____

10/5/2022

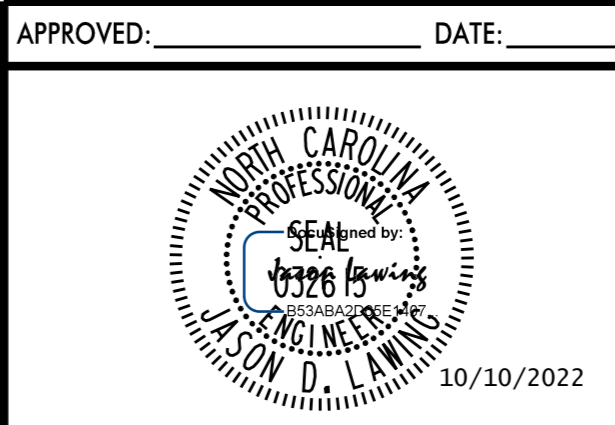


**DETOUR SHEET
SOUTHBOUND
BERKELEY BLVD**

SIGN NUMBER: name TYPE: D QUANTITY: 4 SIGN WIDTH: 4'-0" HEIGHT: 1'-6" TOTAL AREA: 6.0 Sq.Ft. BORDER TYPE: FLUSH RECESS: 0.38" WIDTH: 0.63" RADII: 1.5" NO. Z BARS: LENGTH:	BACKG COLOR: Orange COPY COLOR: Black <table border="1"> <tr><th>SYMBOL</th><th>X</th><th>Y</th><th>WID</th><th>HT</th></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td></tr> </table> MAT'L: 0.063" (1.6 mm) ALUMINUM	SYMBOL	X	Y	WID	HT																										DESIGN BY: EGP PROJECT ID: U-5724 CHECKED BY: LOCATION: May 09, 2018 DIV: DIV																																																																																																																																										
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SIGN NUMBER: name TYPE: D QUANTITY: 5 SIGN WIDTH: 3'-6" HEIGHT: 2'-0" TOTAL AREA: 7.0 Sq.Ft. BORDER TYPE: FLUSH RECESS: 0.38" WIDTH: 0.63" RADII: 1.5" NO. Z BARS: LENGTH:	BACKG COLOR: Orange COPY COLOR: Black <table border="1"> <tr><th>SYMBOL</th><th>X</th><th>Y</th><th>WID</th><th>HT</th></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td></tr> </table> MAT'L: 0.063" (1.6 mm) ALUMINUM	SYMBOL	X	Y	WID	HT																										DESIGN BY: EGP PROJECT ID: U-5724 CHECKED BY: LOCATION: May 09, 2018 DIV: DIV																																																																																																																																										
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SPECIAL SIGN DESIGN

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<p>SIGN NUMBER: name TYPE: D QUANTITY: 1</p> <p>SIGN WIDTH: 4'-0" HEIGHT: 1'-6" TOTAL AREA: 6.0 Sq.Ft.</p> <p>BORDER TYPE: FLUSH RECESS: 0.38" WIDTH: 0.63" RADII: 1.5"</p> <p>NO. Z BARS: LENGTH:</p>	<p>BACKG COLOR: Orange COPY COLOR: Black</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>SYMBOL</th> <th>X</th> <th>Y</th> <th>WID</th> <th>HT</th> </tr> </thead> <tbody> <tr><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td></tr> </tbody> </table> <p>MAT'L: 0.063" (1.6 mm) ALUMINUM</p>	SYMBOL	X	Y	WID	HT																																				<p>DESIGN BY: EGP PROJECT ID: U-5724</p> <p>CHECKED BY: LOCATION:</p> <p style="text-align: right;">May 09, 2018 DIV: DIV</p> <div style="text-align: center;"> <p style="font-size: small;">BORDER R=1.5" TH=0.63" IN=0.38" Panel Style: Traffic Control.ssi M.U.T.C.D.: 2009 Edition</p> </div>																																																																																																																							
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<p>APPROVED: _____ DATE: _____</p> <div style="text-align: center;"> <p style="font-size: x-small;">10/5/2022</p> </div>	<p style="font-size: x-small;">DIVISION OF HIGHWAYS STATE OF NORTH CAROLINA DEPARTMENT OF TRANSPORTATION ZONE TRAFFIC CONTROL</p>	<h2 style="margin: 0;">SPECIAL SIGN DESIGN</h2>
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PROJ. REFERENCE NO.	SHEET NO.
U-5724	TMP-3

CONSTRUCTION PHASING

PRIOR TO BEGINNING ANY CONSTRUCTION THE CONTRACTOR SHALL INSTALL WORK ZONE ADVANCE WARNING SIGNS AS SHOWN IN THE NCDOT ROADWAY STANDARD DRAWING NO. 1101.01

NOTE: CONTRACTOR SHALL COORDINATE WITH NCRR THROUGHOUT THE DURATION OF THE PROJECT WHENEVER WORK IS OCCURRING WITHIN OR NEAR THE RAILROAD RIGHT-OF-WAY, AND SPECIFICALLY FOR THE INSTALLATION OF THE PROPOSED AT-GRADE CROSSING ON -Y2- OAK FOREST ROAD AND THE REMOVAL OF EXISTING CROSSING AT CENTRAL HEIGHTS ROAD.

PHASE I

STEP 1:

AWAY FROM TRAFFIC, WHILE MAINTAINING EXISTING TRAFFIC PATTERNS AND ACCESS TO ALL PROPERTIES, CONSTRUCT ALL RAILROAD GRADING IN ACCORDANCE TO RAILROAD PLANS.

NOTE: ALL RAILROAD GRADING AND TRACKWORK FOR REVISED RAILROAD SIDING MUST BE COMPLETE PRIOR TO CONSTRUCTION OF NEW RAIL CROSSING ON -Y2- OAK FOREST ROAD. RAIL CROSSING AND RAILROAD SIDING TRACKWORK TO BE INSTALLED BY OTHERS, SUBJECT TO AGREEMENT. SEE RAILROAD PLANS

STEP 2:

AWAY FROM TRAFFIC, WHILE MAINTAINING EXISTING TRAFFIC PATTERNS AND ACCESS TO ALL PROPERTIES, CONSTRUCT THE FOLLOWING:

- NEW LOCATION -Y3- SERVICE ROAD #1
- NEW LOCATION -L- CENTRAL HEIGHTS ROAD
- NEW LOCATION -Y2- OAK FOREST ROAD
- NEW LOCATION -Y2- FALLIN BOULEVARD

AND ALL ASSOCIATED DRAINAGE AS SHOWN ON SHEETS TMP-4 THROUGH TMP-10.

STEP 3:

- INSTALL DETOUR SIGNS AS SHOWN ON SHEET TMP-2A AND CLOSE -L- ROYALL AVENUE.
- INSTALL ASSOCIATED DRAINAGE AS SHOWN ON SHEET TMP-4

NOTE: STEPS 2 AND 3 MAY BE PERFORMED CONCURRENTLY

STEP 4:

INSTALL TEMPORARY SIGNAL AT THE INTERSECTION OF -L- (ROYALL AVENUE) AND -Y1- (US 13). (REFER TO SIGNAL PLANS)

STEP 5:

WHILE MAINTAINING TRAFFIC USING RSD 1101.02 FOR TEMPORARY LANE CLOSURES, CONSTRUCT PROPOSED IMPROVEMENTS ALONG THE FOLLOWING AS SHOWN ON SHEETS TMP-4 THROUGH TMP-10:

- L- ROYALL AVENUE
- Y2- OAK FOREST ROAD
- Y5- MCCLAIN ROAD

STEP 6:

- INSTALL DETOUR SIGNS AS SHOWN ON SHEET TMP-2B AND CLOSE -Y2- N. OAK FOREST ROAD
- INSTALL ASSOCIATED DRAINAGE AS SHOWN ON SHEETS TMP-8 AND TMP-9

PROVIDE WEDGING AS REQUIRED FOR POSITIVE DRAINAGE AND SMOOTH TRANSITIONS BETWEEN EXISTING AND PROPOSED GRADES.

NOTE: STEPS 4 AND 5 MAY BE PERFORMED CONCURRENTLY

PHASE 2

WHILE MAINTAINING TRAFFIC USING RSD 1101.02 SHEETS 1 & 2 FOR TEMPORARY LANE CLOSURES AS NECESSARY, PERFORM THE FOLLOWING AS SHOWN ON SHEETS TMP-11 THRU TMP-17

STEP 1:

- INSTALL TEMPORARY PAVEMENT MARKINGS
- MODIFY TEMPORARY SIGNALS AT -L- (ROYALL AVENUE) AND -Y1- (US 13). (REFER TO SIGNAL PLANS)
- COORDINATE WITH NCRR TO INSTALL AND ACTIVATE NEW RAIL CROSSING SIGNAL ON -Y2- SR 1711 (OAK FOREST ROAD).
- OPEN NEW LOCATION -L- CENTRAL HEIGHTS ROAD TO TRAFFIC
- OPEN NEW LOCATION -Y2- FALLIN BOULEVARD TO TRAFFIC
- OPEN -Y3- TO TRAFFIC
- SHIFT TRAFFIC ONTO TEMPORARY PATTERN

PHASE 2 (CONT.)

STEP 2:

- INSTALL DETOUR SIGNS AS SHOWN ON SHEET TMP-2C AND CLOSE -Y2- FALLIN BOULEVARD
- INSTALL ASSOCIATED DRAINAGE AS SHOWN ON SHEET TMP-17

STEP 3:

REMOVE EXISTING CENTRAL HEIGHTS ROAD.

STEP 4:

CONSTRUCT PROPOSED IMPROVEMENTS AND ALL ASSOCIATED DRAINAGE ALONG THE FOLLOWING:

- L- ROYALL AVENUE
- Y2- OAK FOREST ROAD
- Y2- FALLIN BOULEVARD
- Y5- MCCLAIN ROAD.

PROVIDE WEDGING AS REQUIRED FOR POSITIVE DRAINAGE AND SMOOTH TRANSITIONS BETWEEN EXISTING AND PROPOSED GRADES.

NOTE: STEPS 2 THRU 4 MAY BE PERFORMED CONCURRENTLY

PHASE 3

WHILE MAINTAINING TRAFFIC USING RSD 1101.02 SHEETS 1 & 2 FOR TEMPORARY LANE CLOSURES AS NECESSARY, PERFORM THE FOLLOWING AS SHOWN ON SHEETS TMP-18 & TMP-19

STEP 1:

- INSTALL PAINT VERSIONS OF FINAL PAVEMENT MARKINGS ON -L- ROYALL AVENUE, -L- CENTRAL HEIGHTS ROAD, -Y2- OAK FOREST ROAD, -Y3- SERVICE ROAD, AND -Y5- MCCLAIN DRIVE
- INSTALL TEMPORARY PAVEMENT MARKINGS ON -L- CENTRAL HEIGHTS ROAD, -Y1- BERKELEY BOULEVARD, AND -Y2- OAK FOREST ROAD
- MODIFY TEMPORARY SIGNALS AT -L- (ROYALL AVENUE) AND -Y1- (US 13). (REFER TO SIGNAL PLANS)
- SHIFT TRAFFIC ONTO TEMPORARY PATTERN

STEP 2:

CONSTRUCT MEDIAN ISLANDS ON -L- CENTRAL HEIGHTS ROAD, -Y1- BERKELEY BOULEVARD, AND -Y2- OAK FOREST ROAD

STEP 3:

USING THE TEMPORARY DETOURS SHOWN ON TMP-2D & TMP-2E CLOSE ONE DIRECTION OF TRAFFIC AT A TIME ON -Y1- BERKELEY BOULEVARD AND INSTALL NEW RAIL CROSSING AND ASSOCIATED SIGNALS AS SHOWN ON SHEET TMP-18 IN COORDINATION WITH NCRR. RAIL CROSSING AND RAIL SIGNALS WITH GATES TO BE CONSTRUCTED BY NCRR CONTRACTOR. PAVE APPROACHES AND FINALIZE MEDIAN CONSTRUCTION AROUND GATES ONCE CROSSING IS COMPLETE. COORDINATE SIGNAL INSTALLATION AND ACTIVATION WITH NCRR.

STEP 4:

USING RSD 1101.02 SHEETS 2 & 3 PLACE FINAL LAYER OF ASPHALT, FINAL PAVEMENT MARKINGS, MARKERS AND SIGNING.

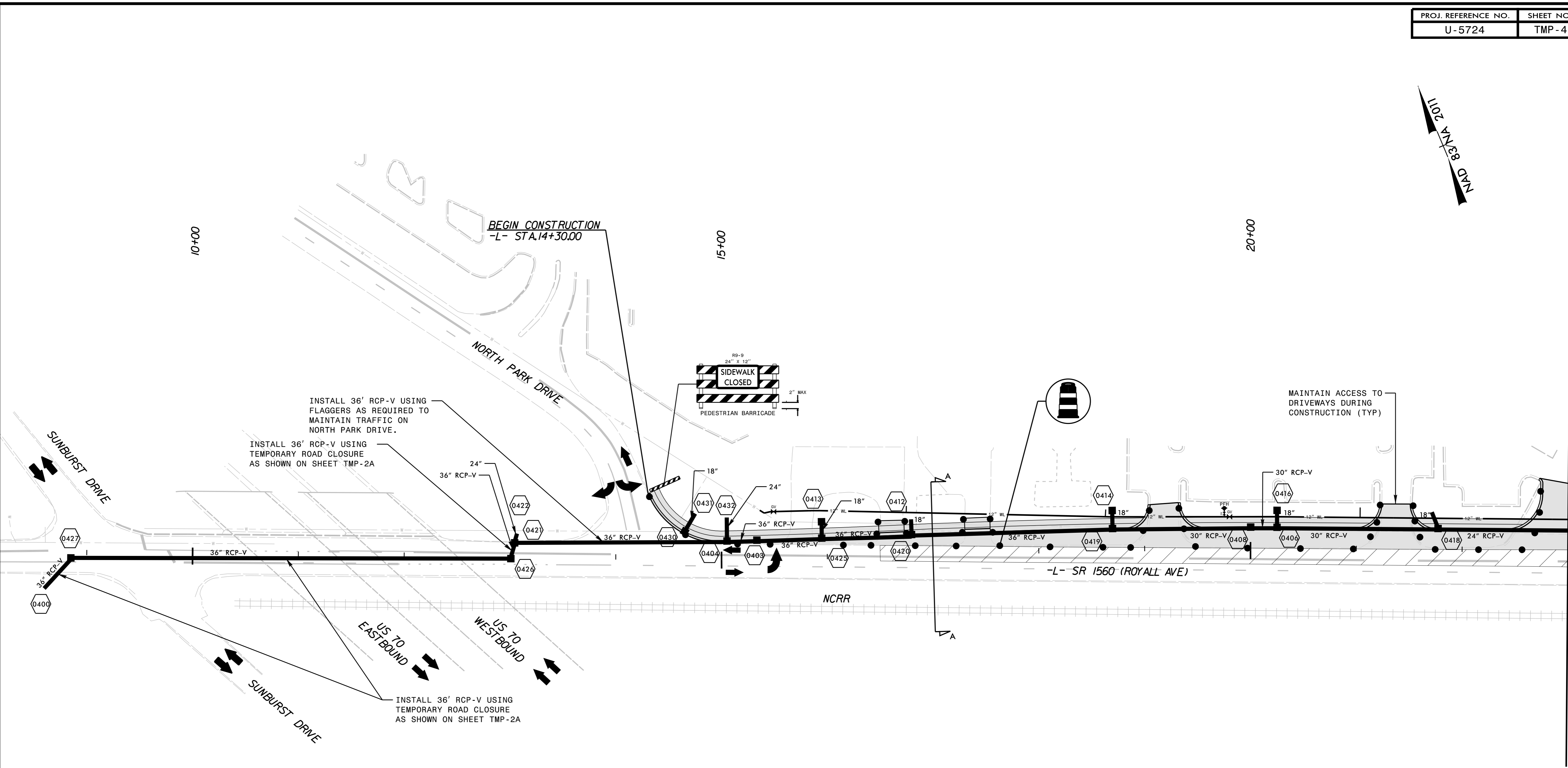
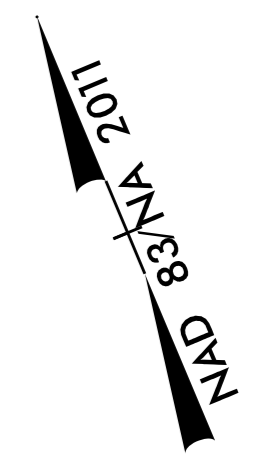
INSTALL ALL FINAL SIGNALS. (REFER TO SIGNAL PLANS)

SHIFT TRAFFIC ONTO FINAL PATTERN, OPEN ALL LANES TO TRAFFIC, AND REMOVE ALL TRAFFIC CONTROL DEVICES.



APPROVED: _____ DATE: _____			<h1 style="margin: 0;">PHASING</h1>
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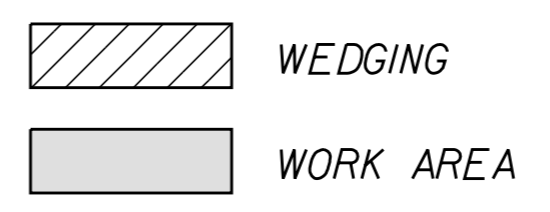
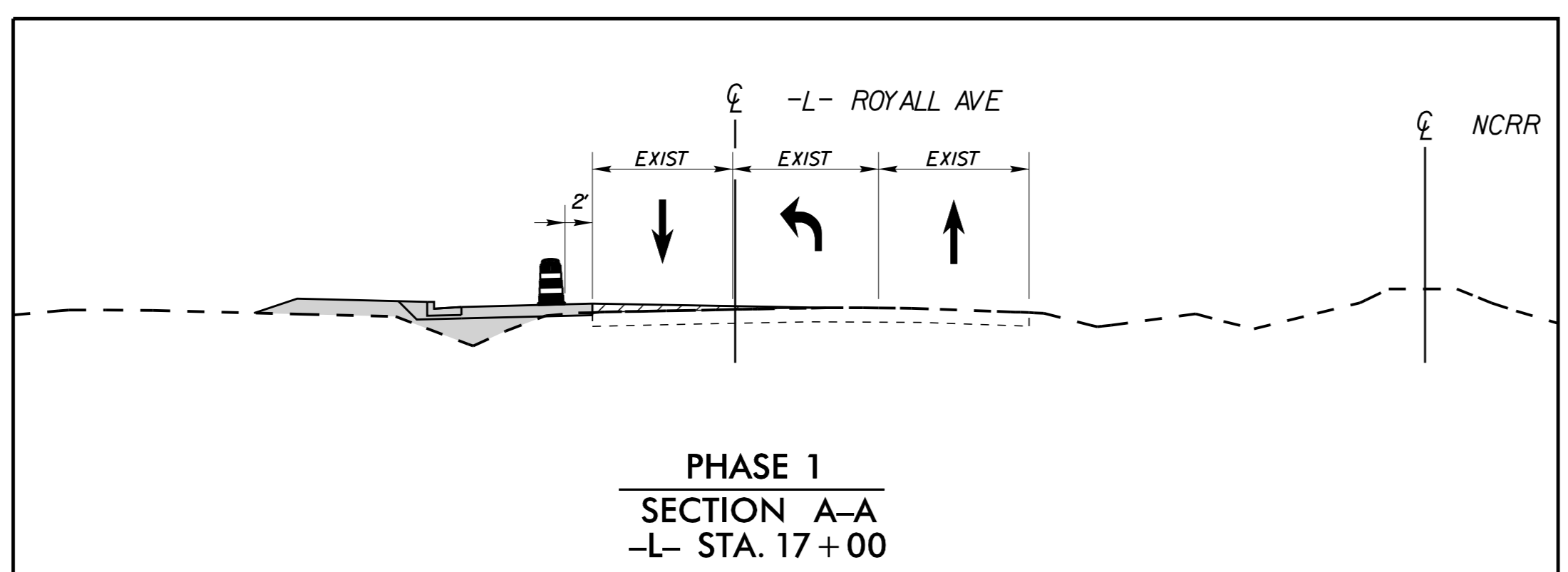
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INSTALL 36' RCP-V USING FLAGGERS AS REQUIRED TO MAINTAIN TRAFFIC ON NORTH PARK DRIVE.

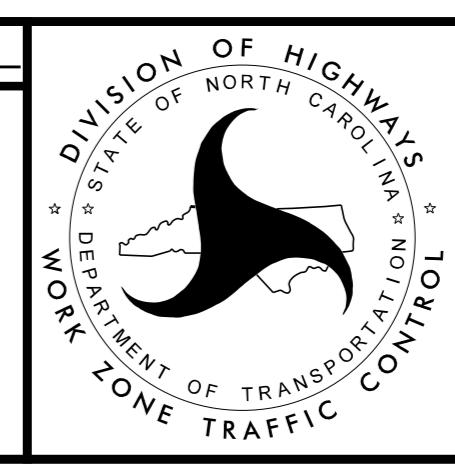
INSTALL 36' RCP-V USING TEMPORARY ROAD CLOSURE AS SHOWN ON SHEET TMP-2A

INSTALL 36' RCP-V USING TEMPORARY ROAD CLOSURE AS SHOWN ON SHEET TMP-2A



Kimley»Horn

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PHASE 1
TRAFFIC CONTROL
DETAILS

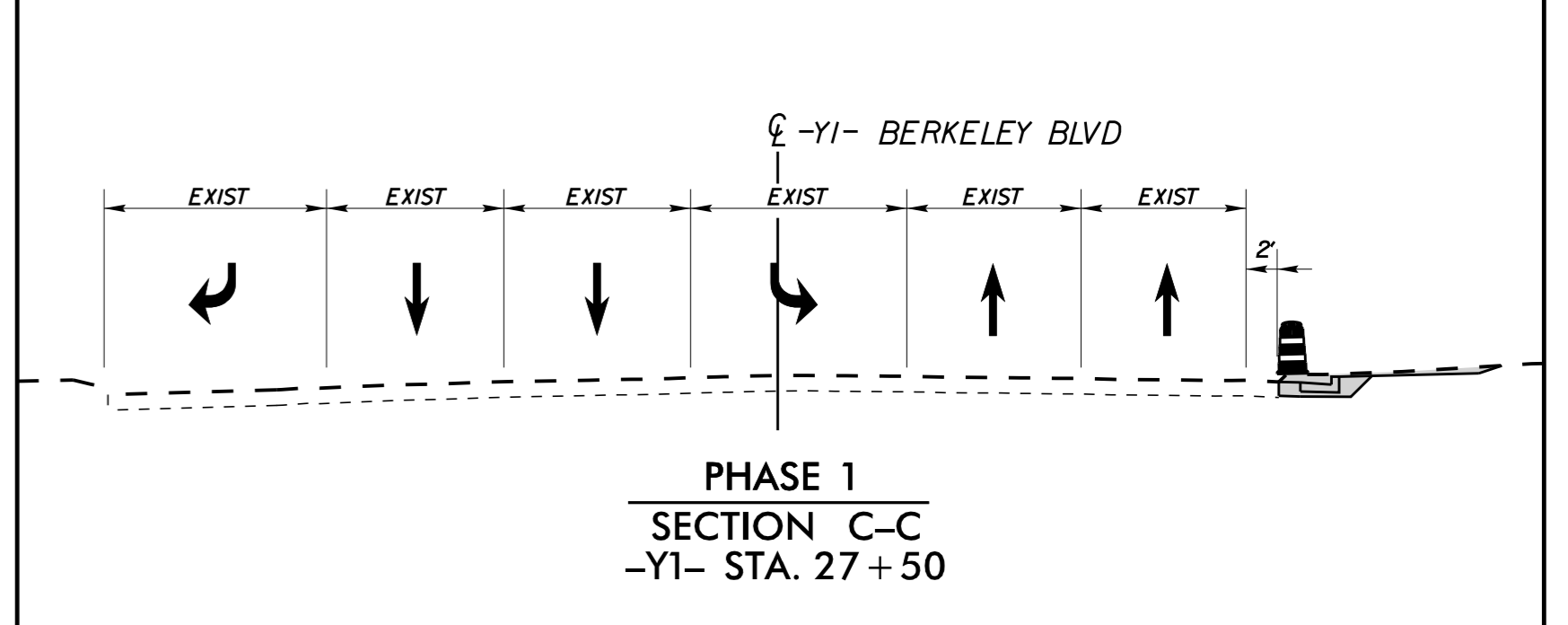
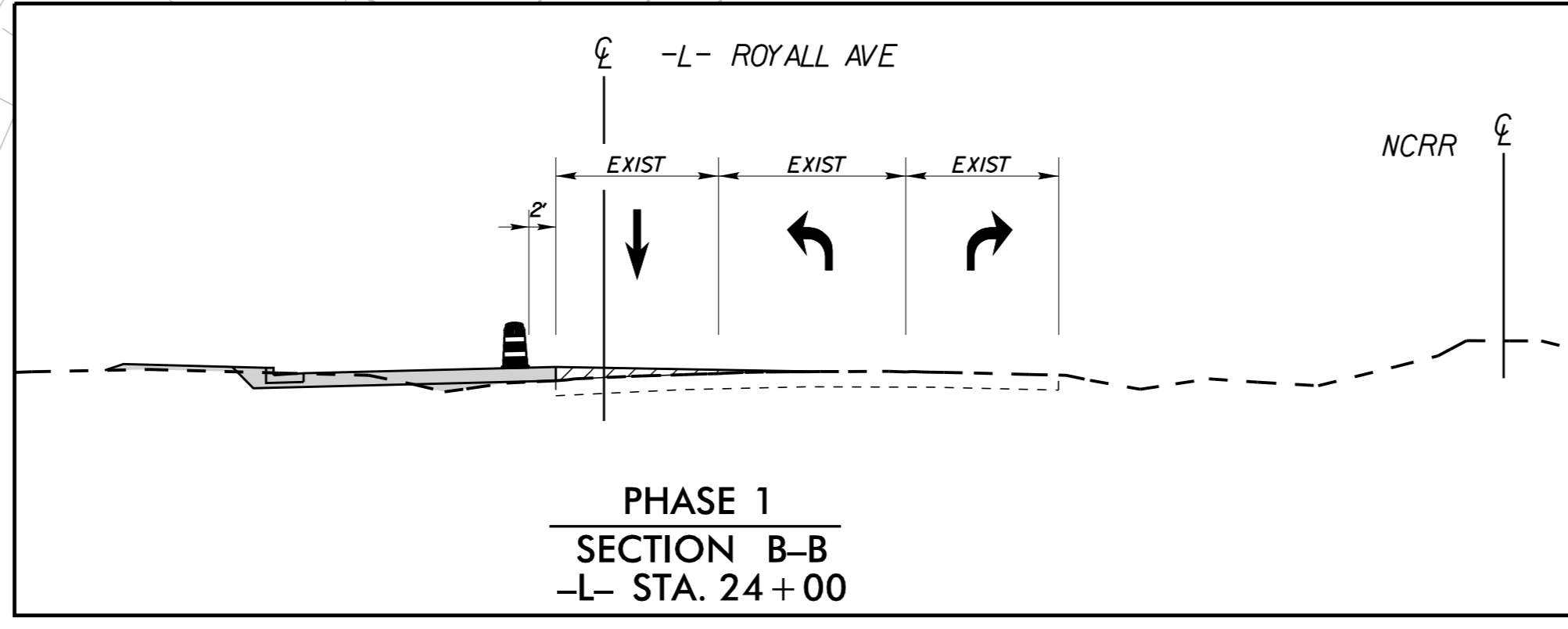
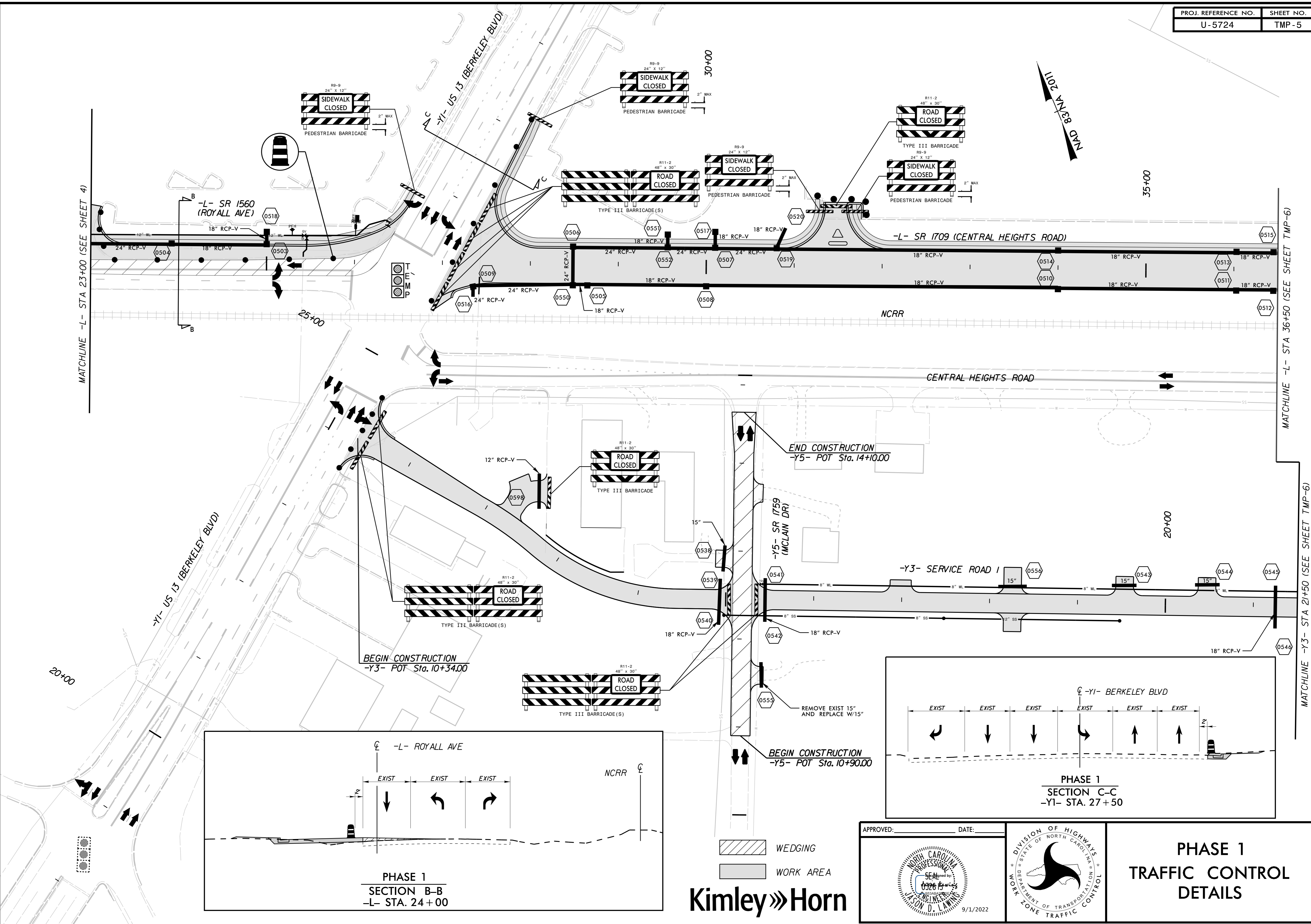
8/20/2020 K:\RAL_Roadway\01036333 - U-5724 (Central Heights)\TrafficControl\CP\Sheets\U-5724_rdy_tmp_4.dgn

MATCHLINE -L- STA 23+00 (SEE SHEET 5)

MATCHLINE -L- STA 23+00 (SEE SHEET 4)

MATCHLINE -L- STA 36+50 (SEE SHEET TMP-6)

MATCHLINE -Y3- STA 21+50 (SEE SHEET TMP-6)



WEDGING
 WORK AREA

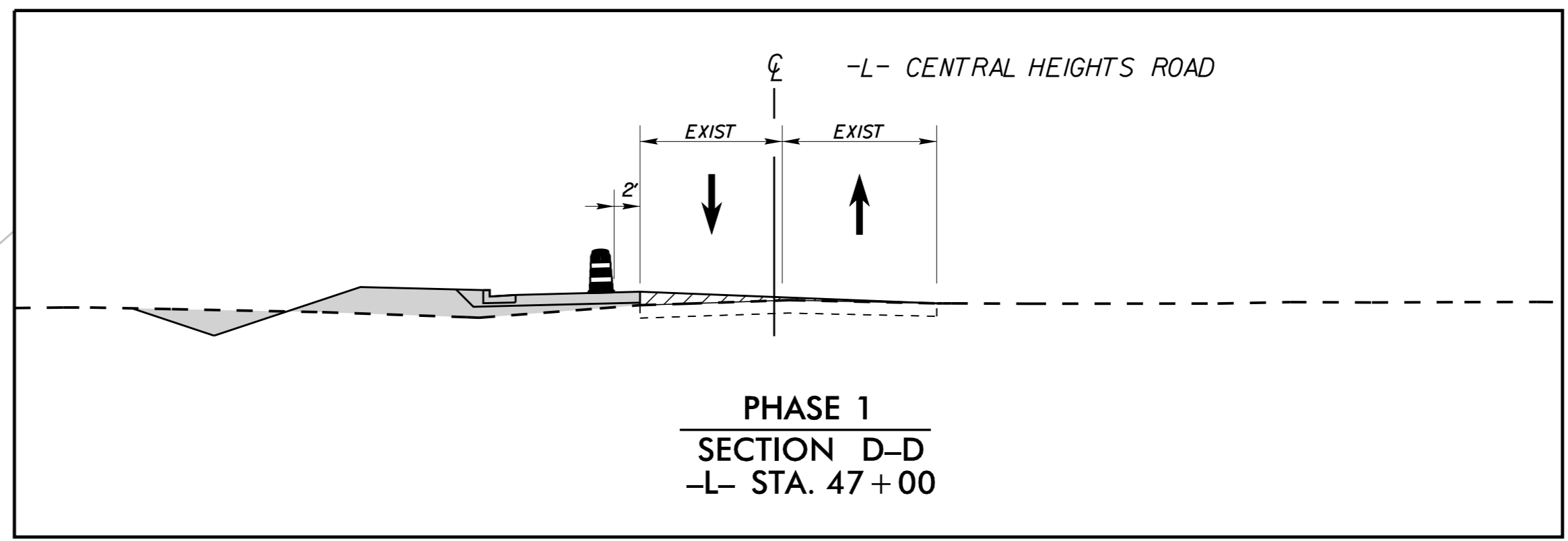
Kimley»Horn

APPROVED: _____ DATE: _____

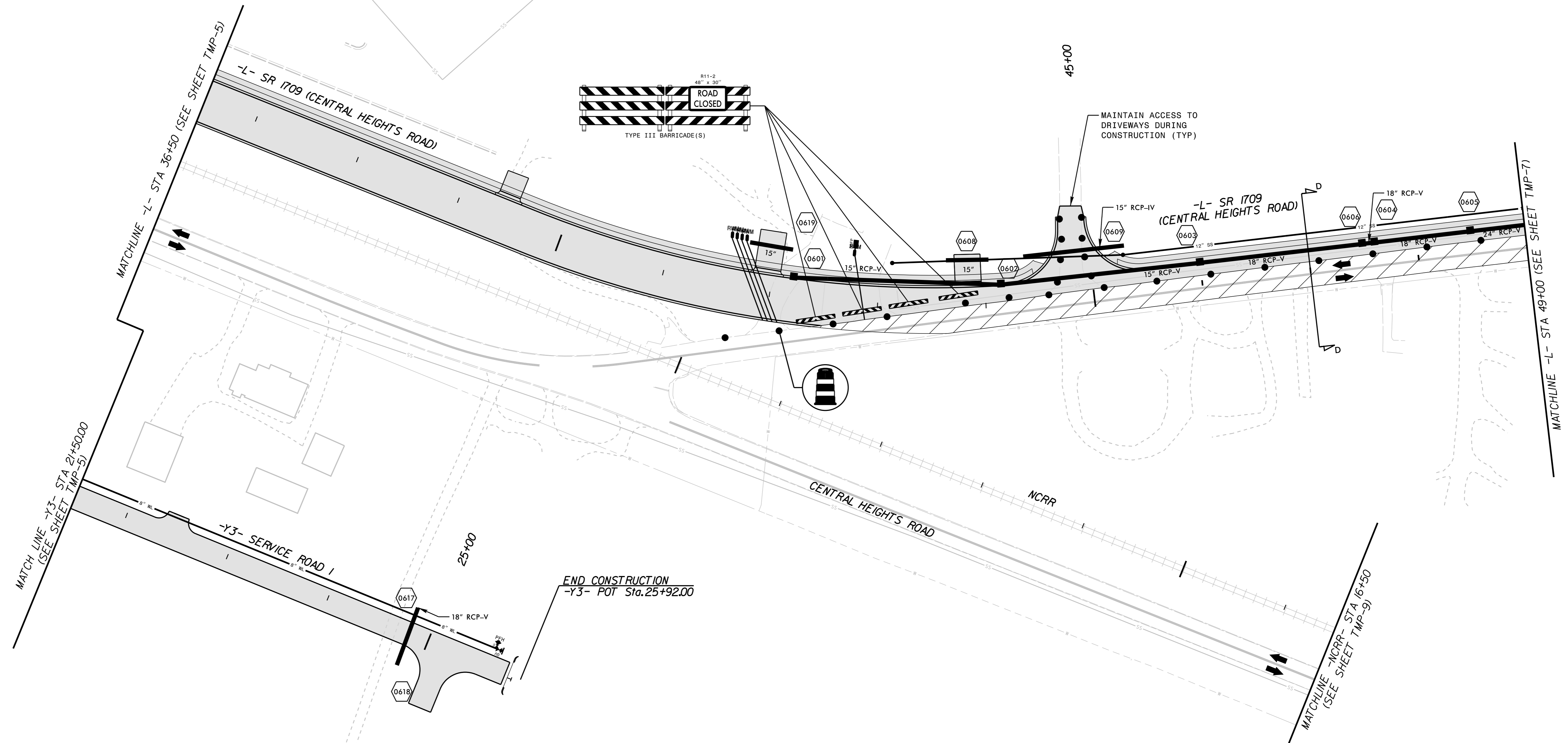
DIVISION OF HIGHWAYS
STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION
WORK ZONE TRAFFIC CONTROL

PHASE 1 TRAFFIC CONTROL DETAILS

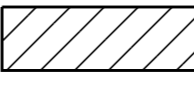

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NAD 83/NA 2011


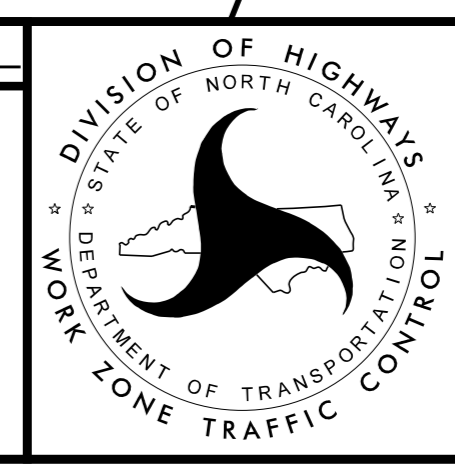


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 WEDGING
 WORK AREA

Kimley»Horn

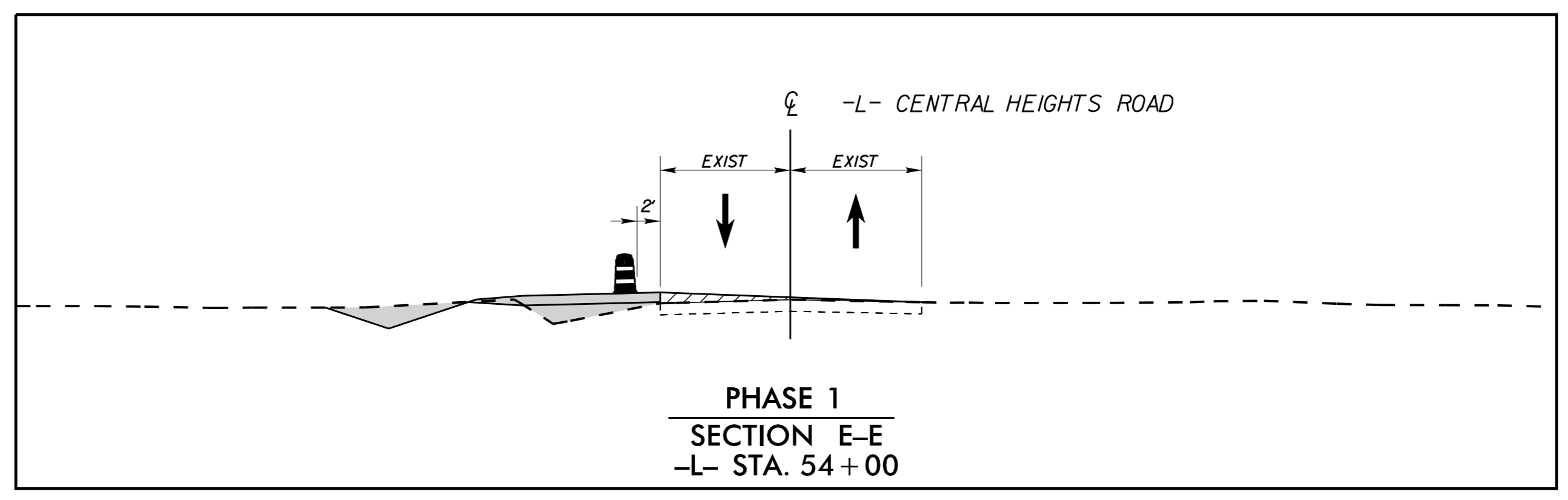
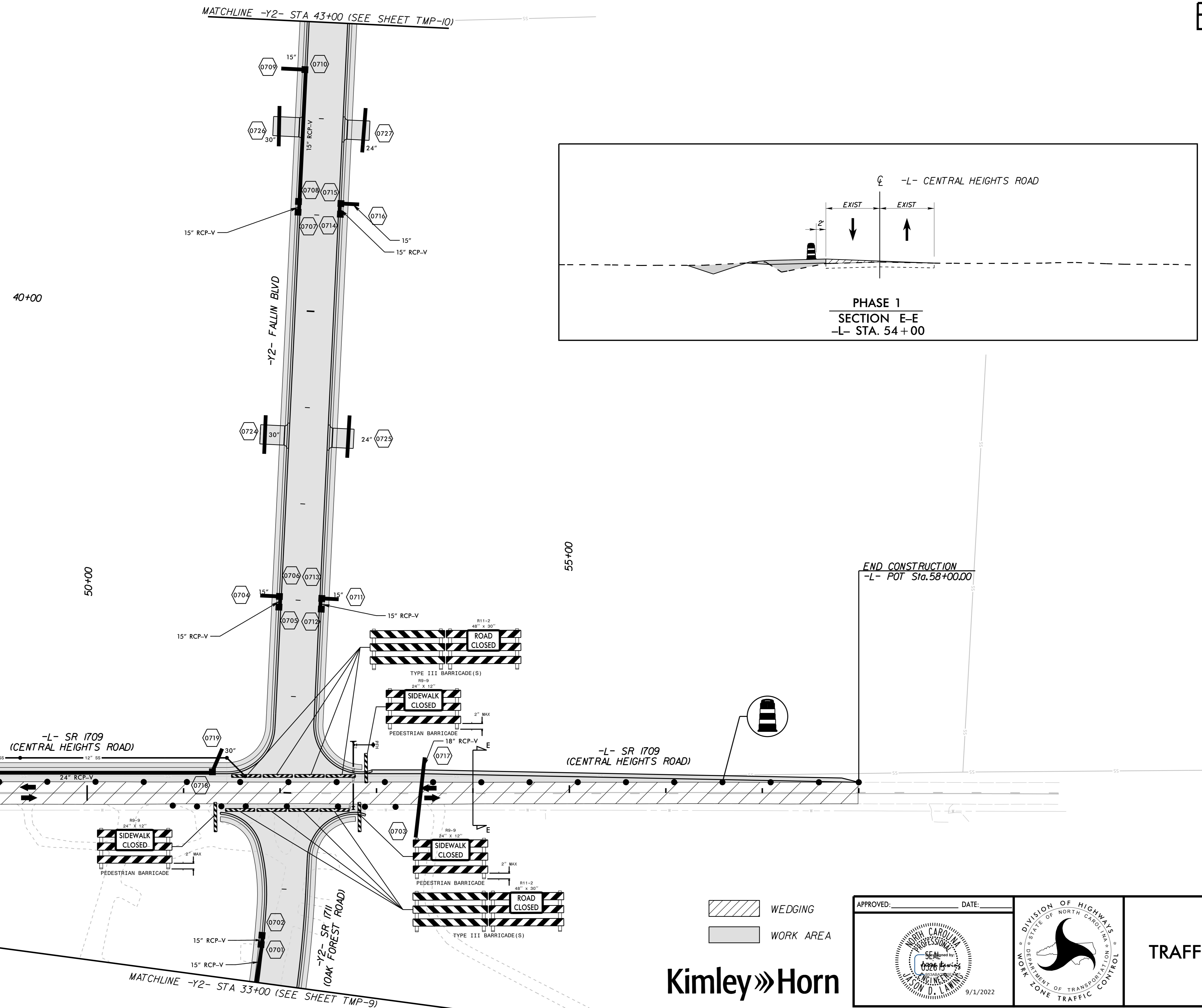
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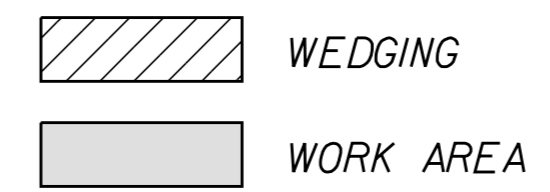
**PHASE 1
TRAFFIC CONTROL
DETAILS**

NAD 83/NA 2011

MATCHLINE -Y2- STA 43+00 (SEE SHEET TMP-10)

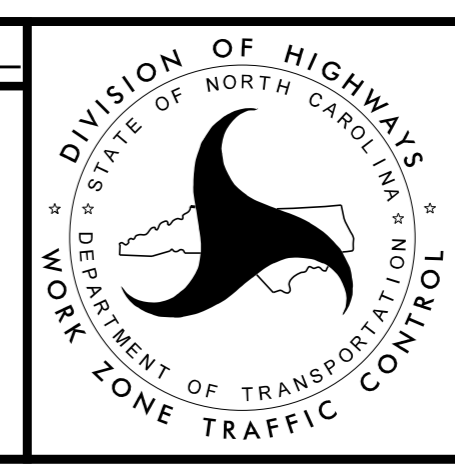


END CONSTRUCTION
-L- POT Sta. 58+00.00



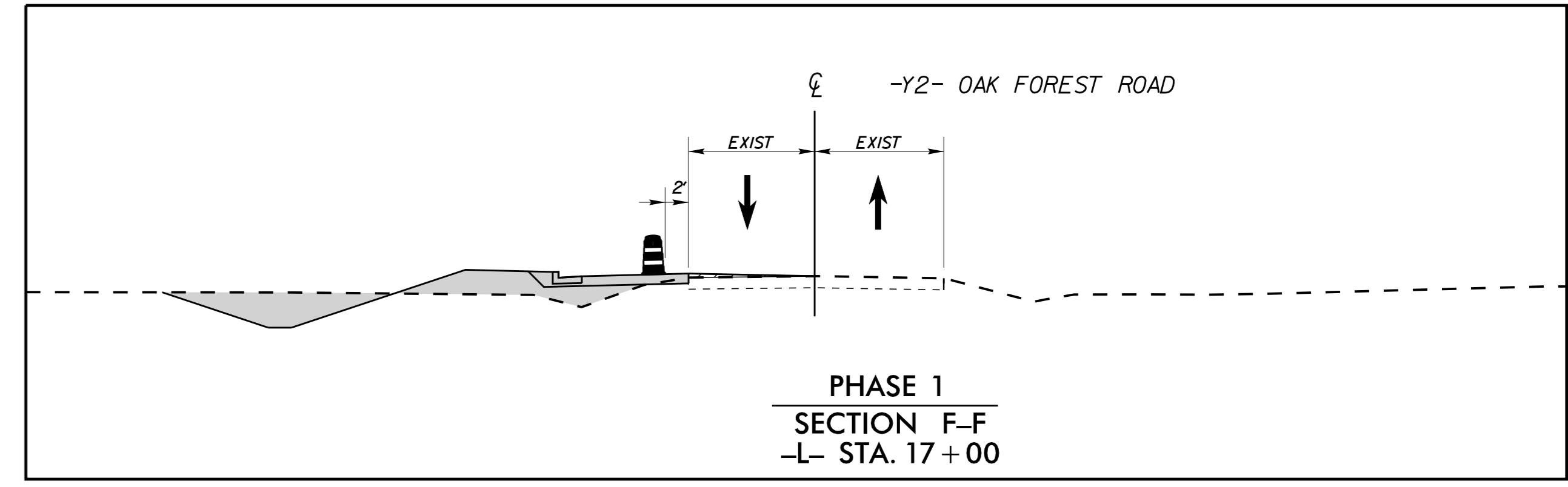
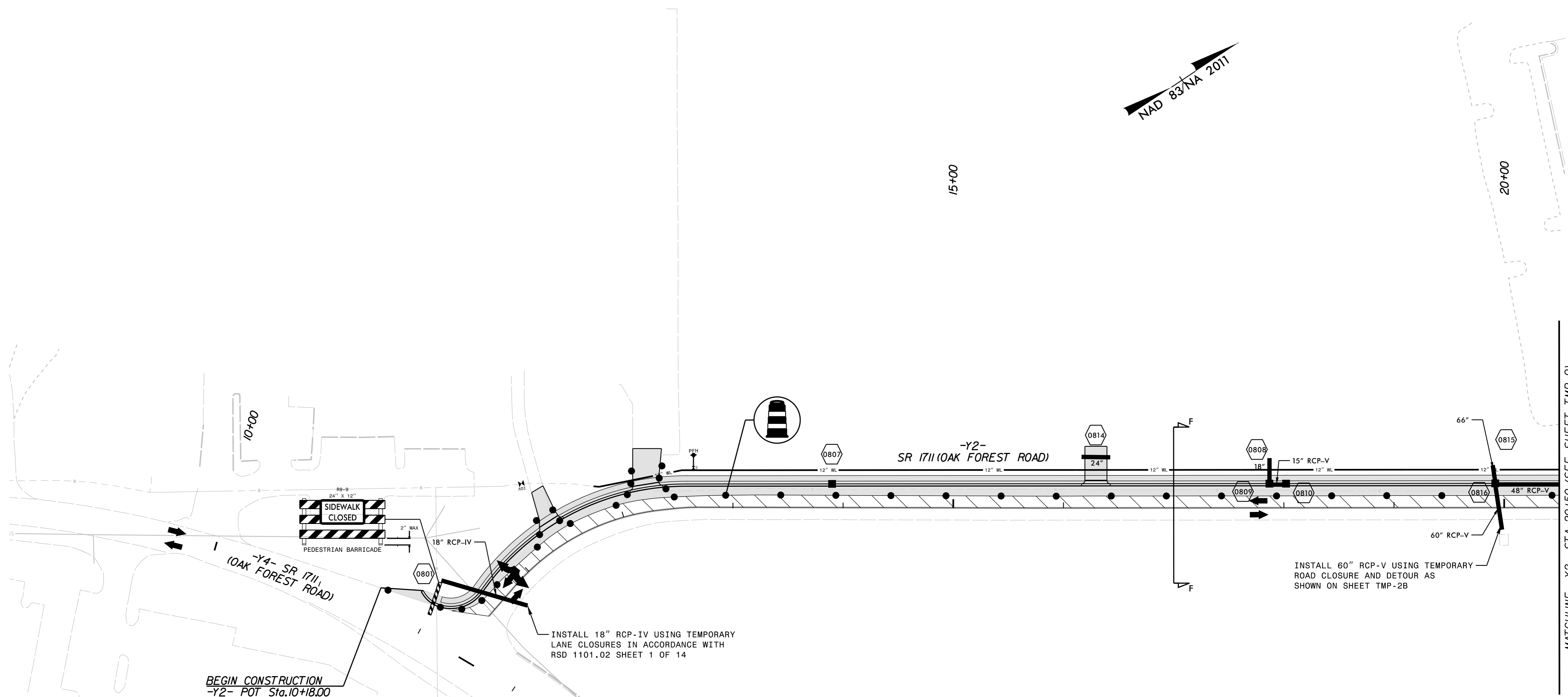
Kimley»Horn



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**PHASE 1
TRAFFIC CONTROL
DETAILS**


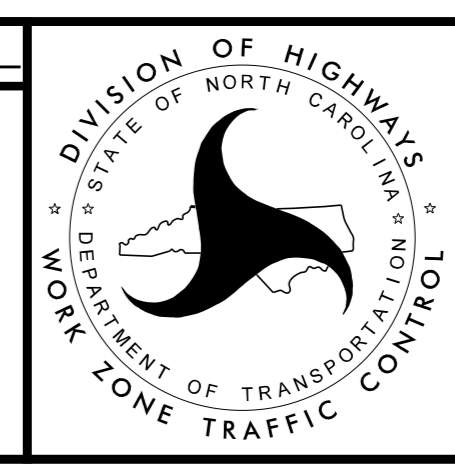
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 WEDGING
 WORK AREA

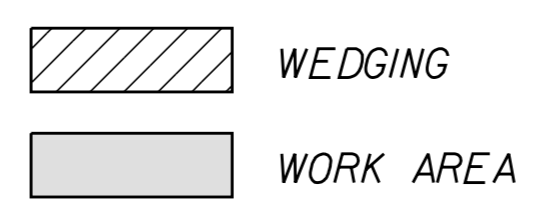
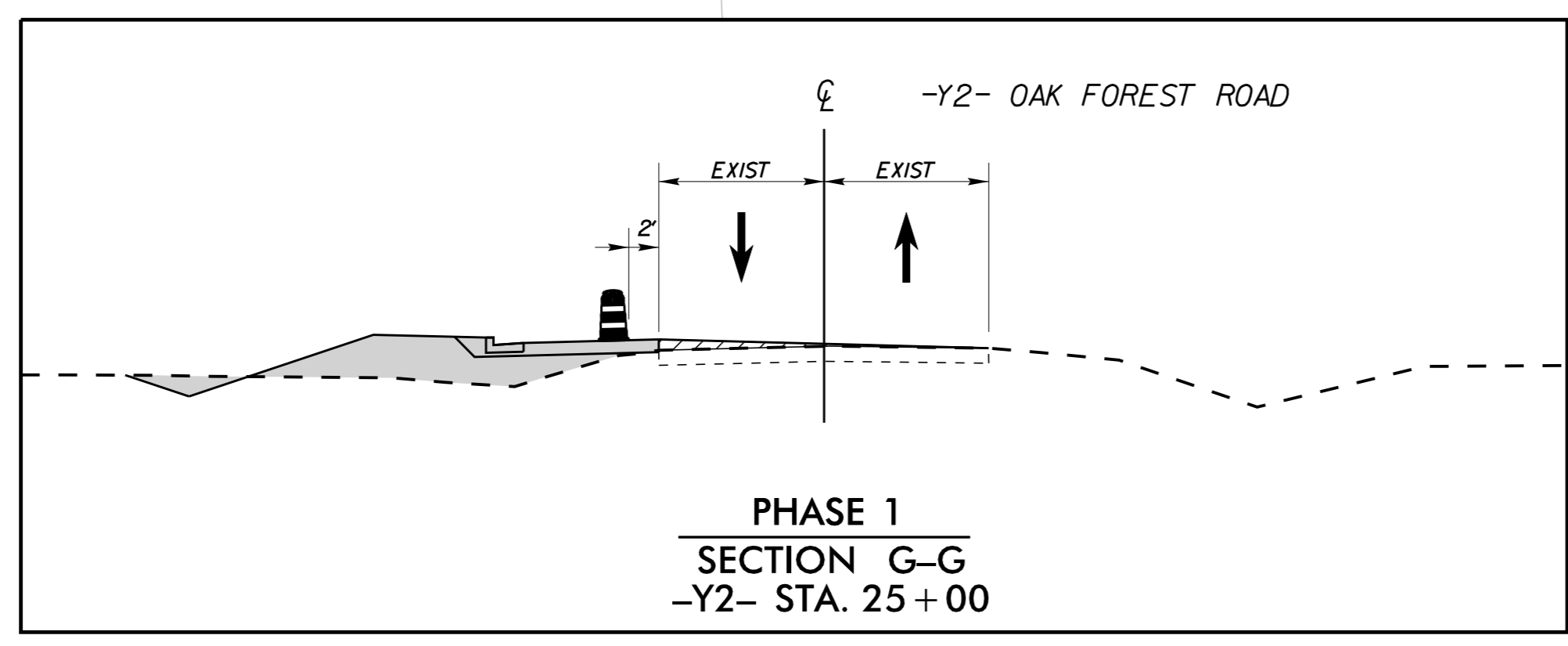
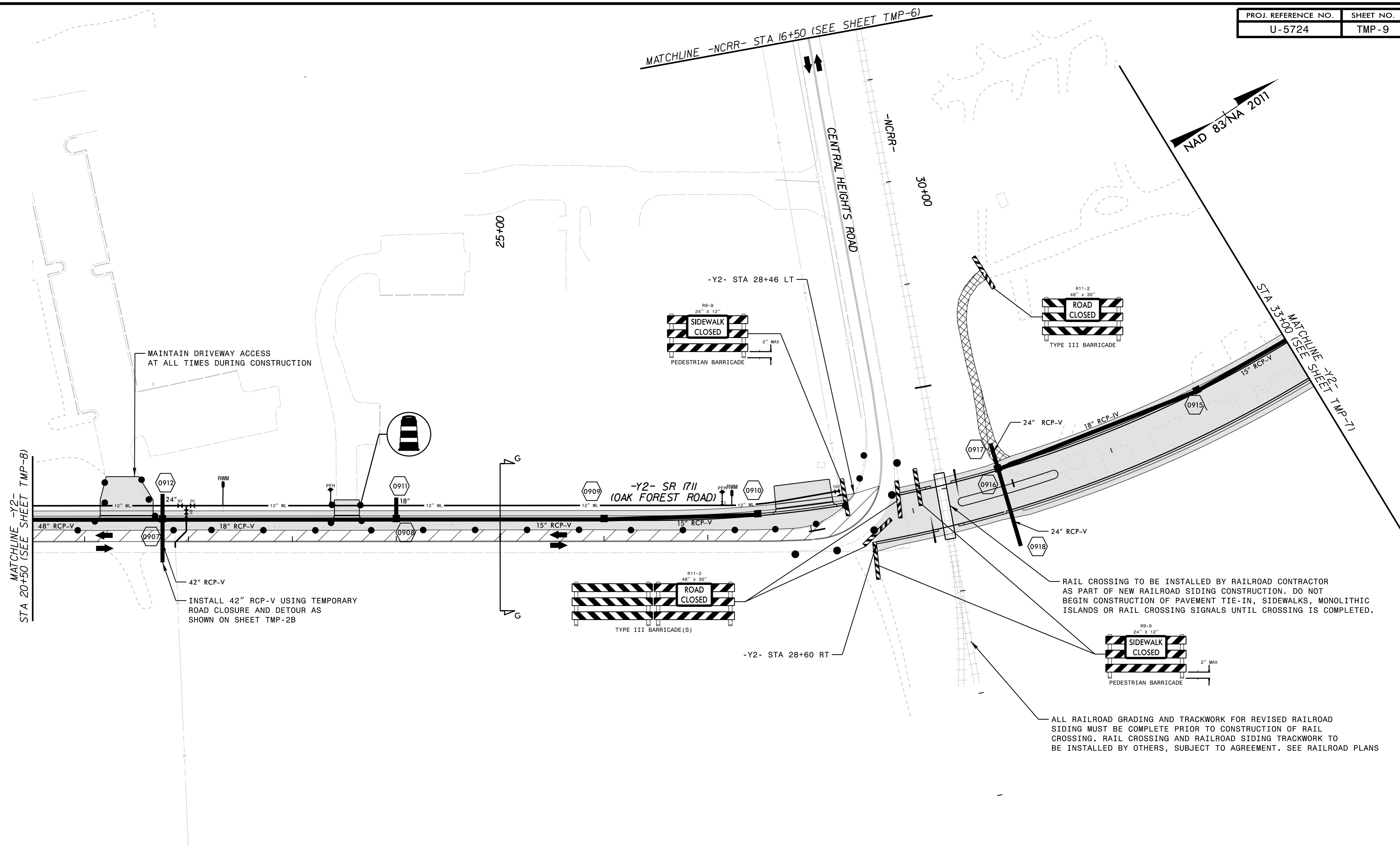
Kimley»Horn

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**PHASE 1
TRAFFIC CONTROL
DETAILS**

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**PHASE 1
TRAFFIC CONTROL
DETAILS**

4/29/2020 K:\RAL_Roadway\01036333 - U-5724 (Central Heights)\TrafficControl\CP\Sheet\U-5724_rdy_tmp_9.dgn



STA MATCHLINE -Y2-
 STA 43+00 (SEE SHEET TMP-7)

1 @ 10' X 6' RCBC
 BURIED 1'

18" RCP-V

1002

1003

1004

18" RCP-V

1005

-Y2- FALLIN BLVD

18" RCP-V

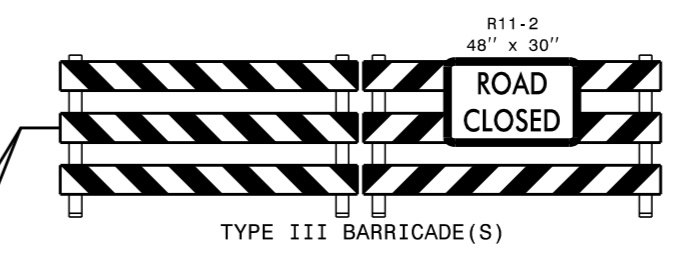
1006

24" X 12"

SIDEWALK
 CLOSED

PEDESTRIAN BARRICADE

END CONSTRUCTION
 -Y2- POT Sta. 51+28.00

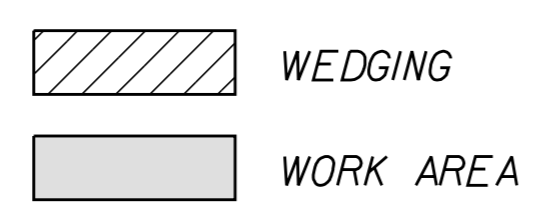


TYPE III BARRICADE(S)

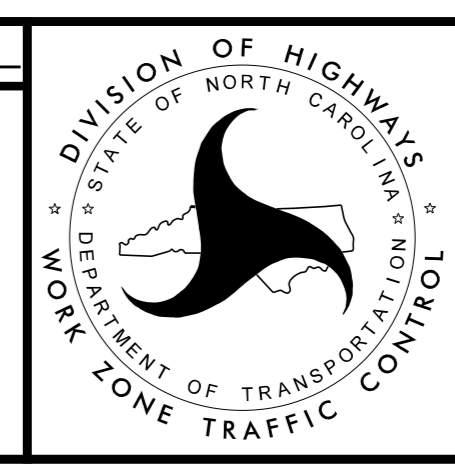
HILL DRIVE
 CIRCLE

1-Y1- US 13 (BERKELEY BLVD)

50+00



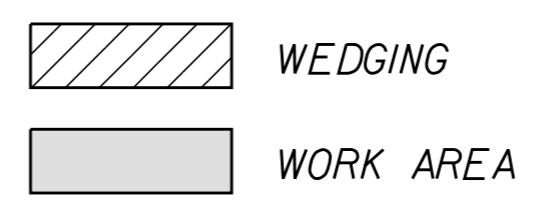
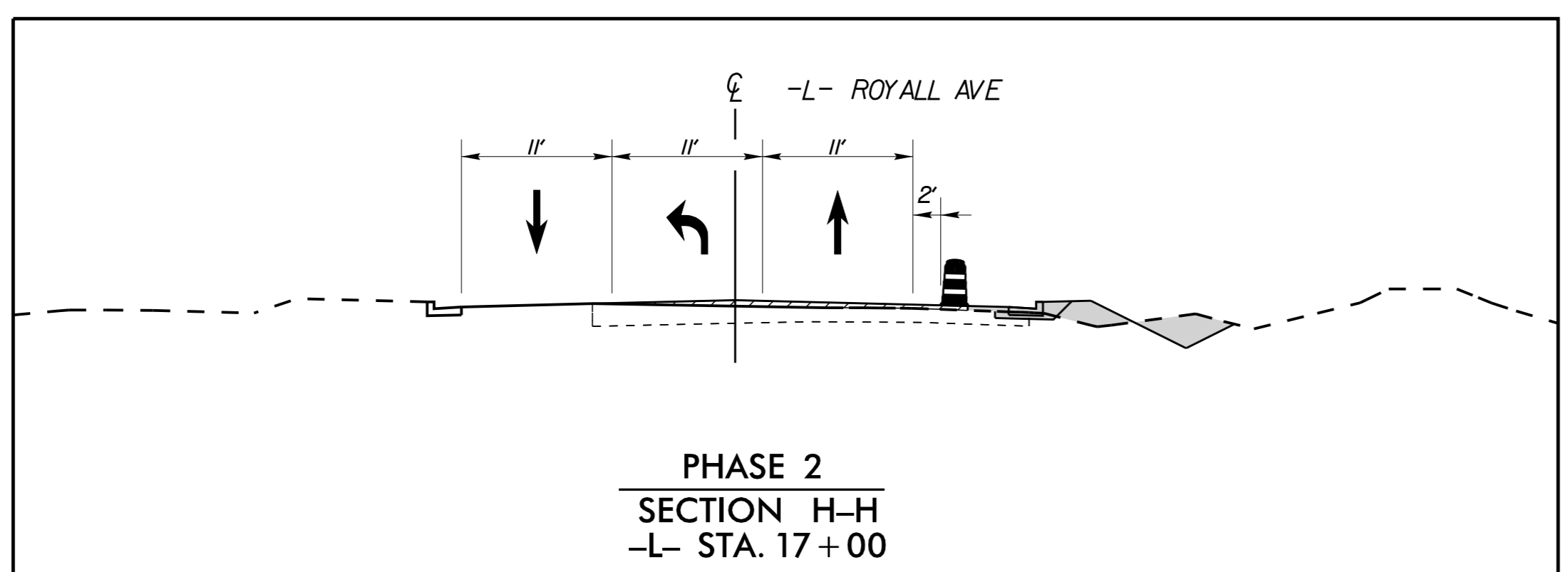
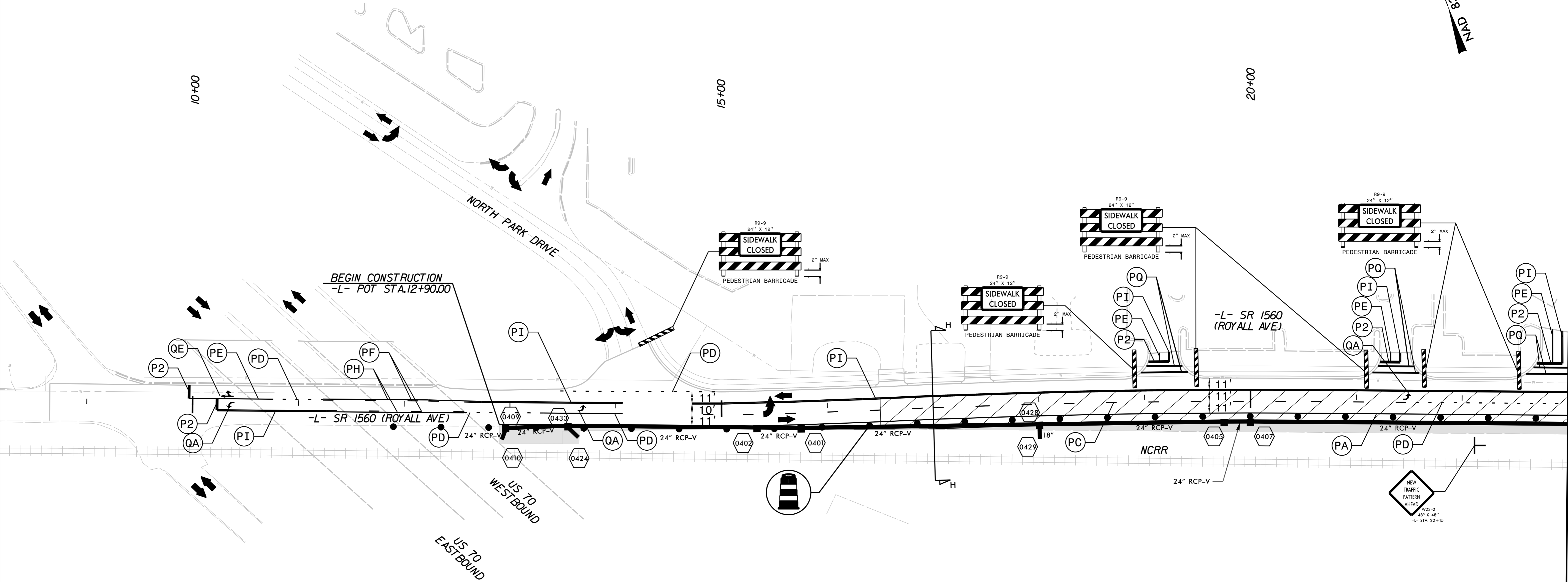
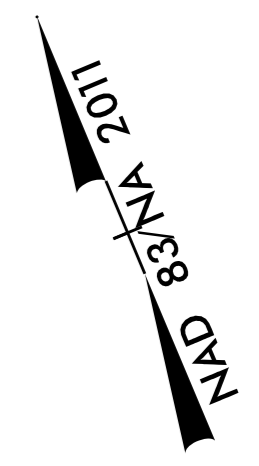
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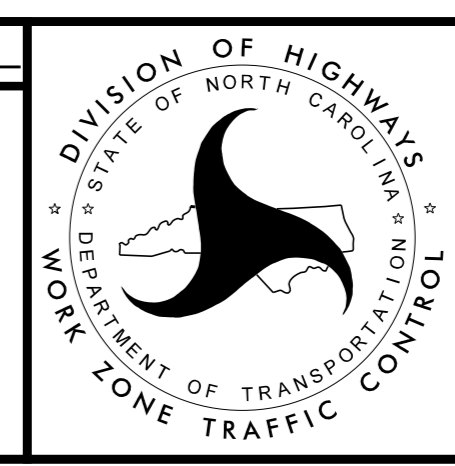
**PHASE 1
 TRAFFIC CONTROL
 DETAILS**



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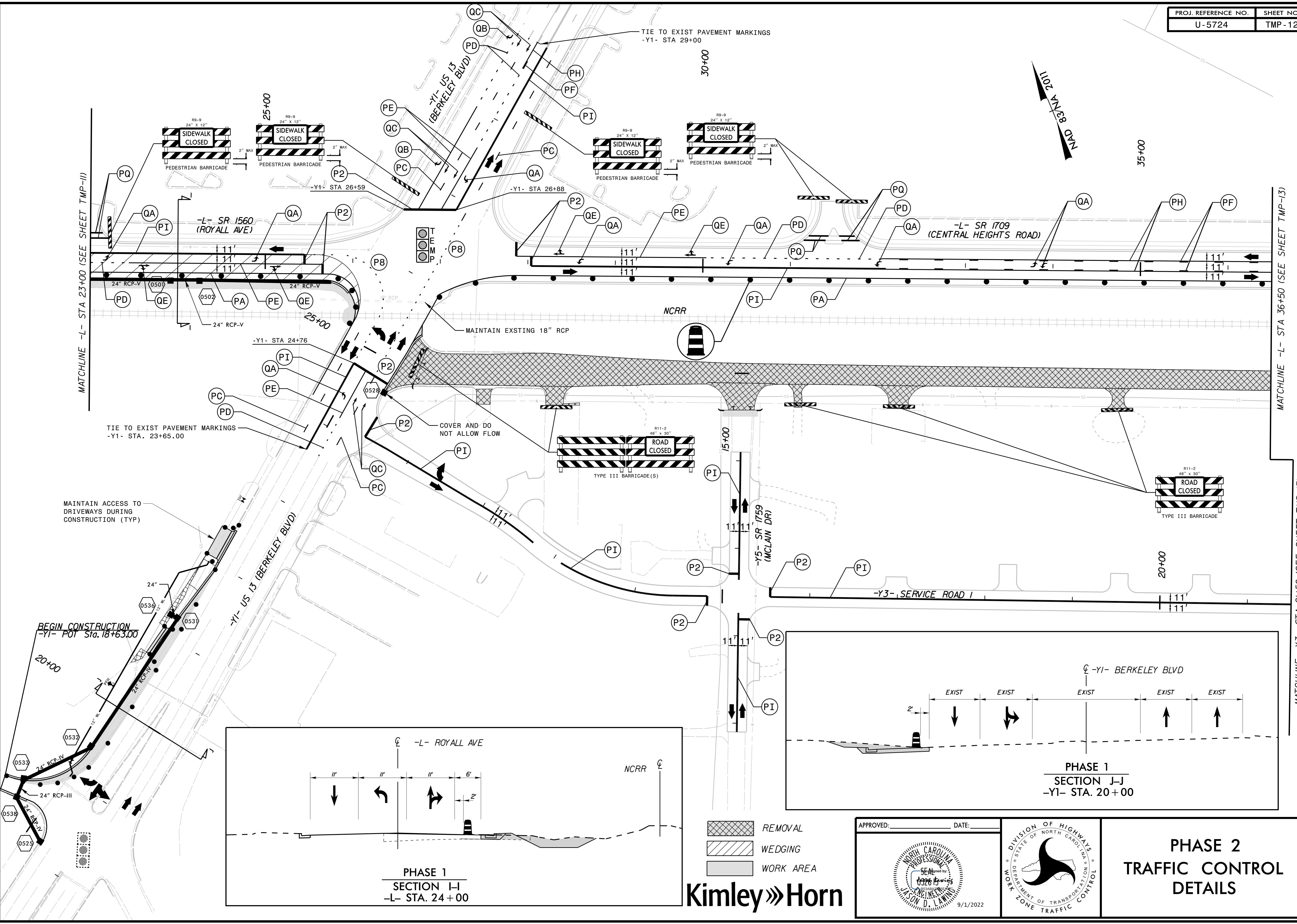


PHASE 2 TRAFFIC CONTROL DETAILS



8/20/2020 K:\RAL_Roadway\010363333 - U-5724 (Central Heights)\TrafficControl\CP\Sheets\U-5724_roy_tmp_1.dgn

MATCHLINE -L- STA 23+00 (SEE SHEET 12)



MATCHLINE -L- STA 23+00 (SEE SHEET TMP-11)

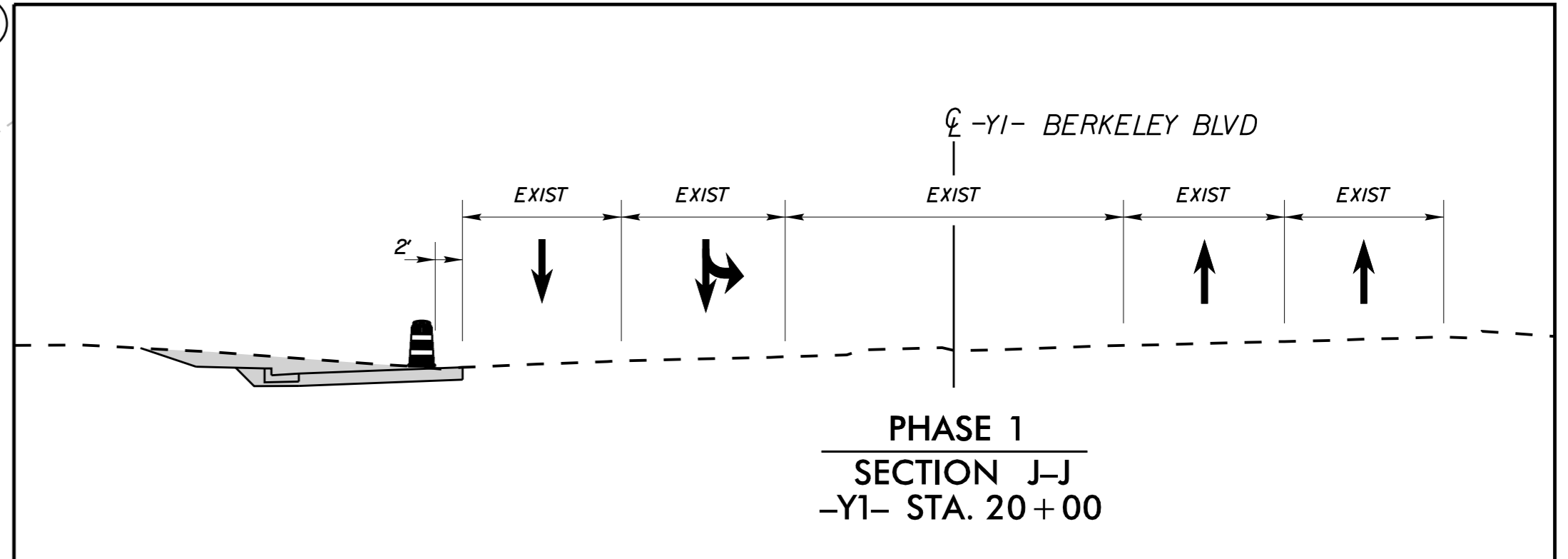
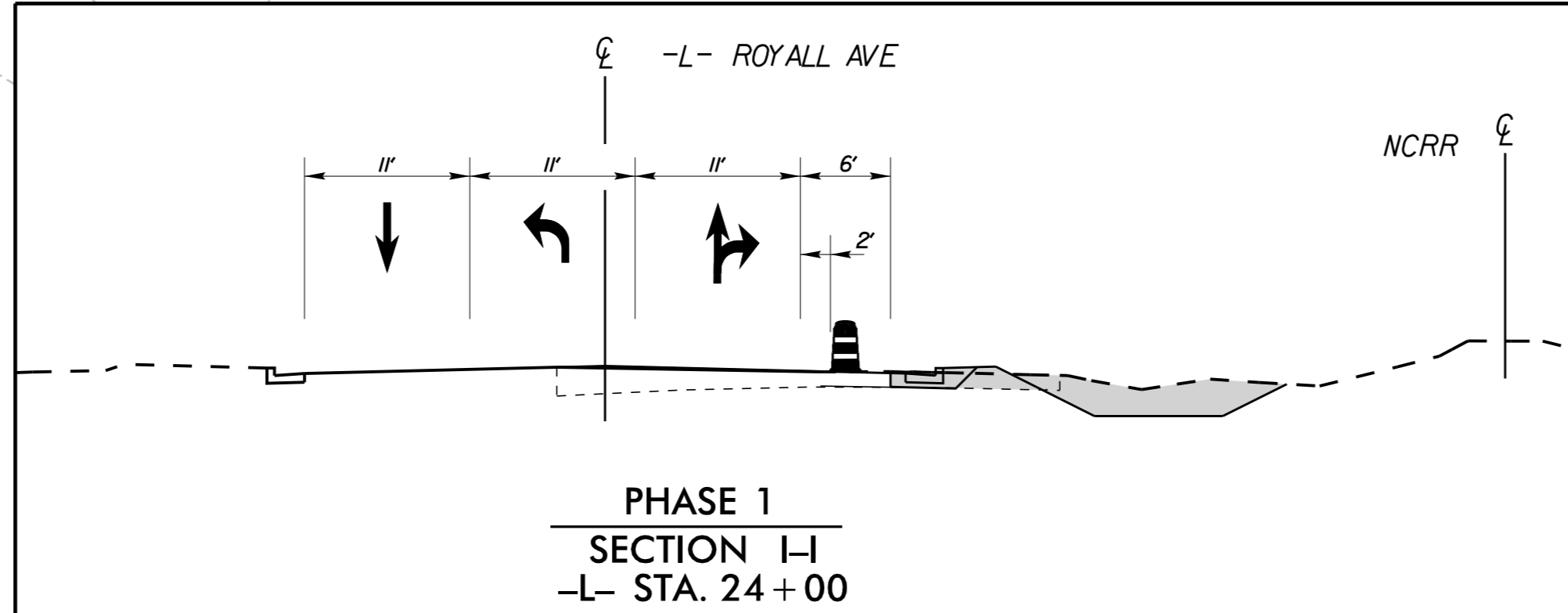
MATCHLINE -L- STA 36+50 (SEE SHEET TMP-13)

MATCHLINE -Y3- STA 21+50 (SEE SHEET TMP-13)

TIE TO EXIST PAVEMENT MARKINGS
-Y1- STA. 23+65.00

MAINTAIN ACCESS TO DRIVEWAYS DURING CONSTRUCTION (TYP)

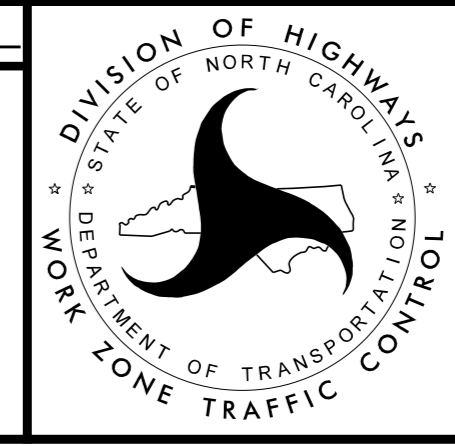
BEGIN CONSTRUCTION
-Y1- POT Sta. 18+63.00



- REMOVAL
- WEDGING
- WORK AREA

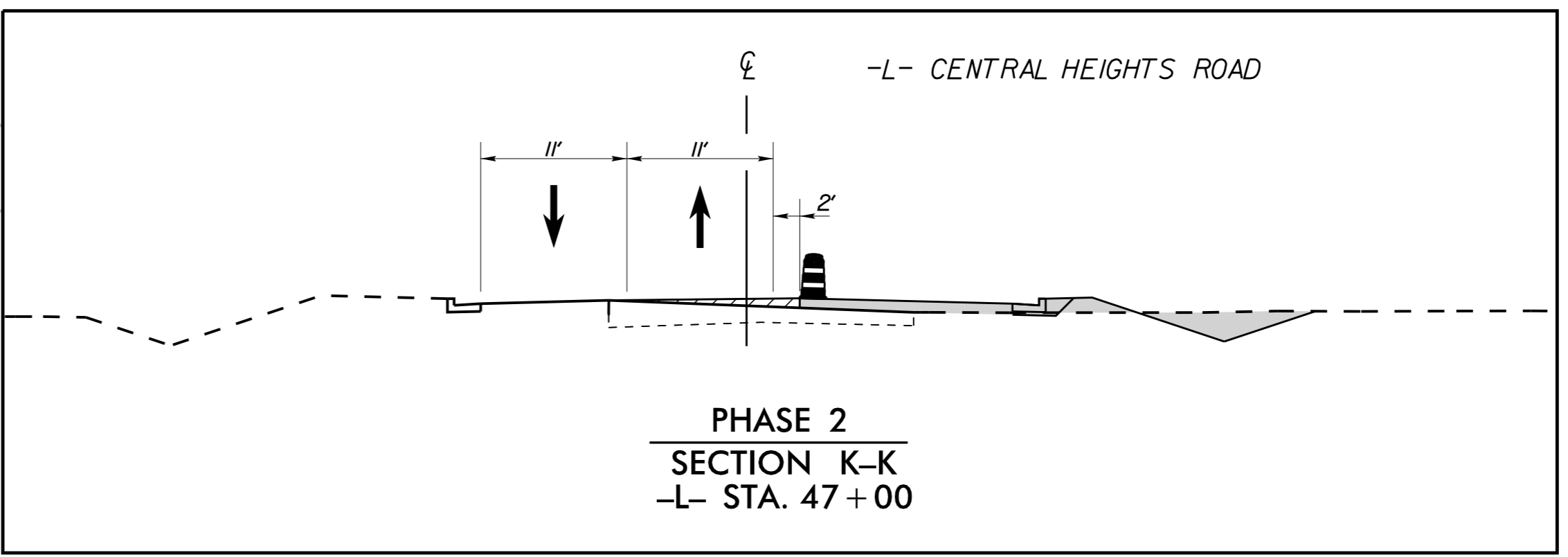
Kimley»Horn

APPROVED: _____ DATE: _____

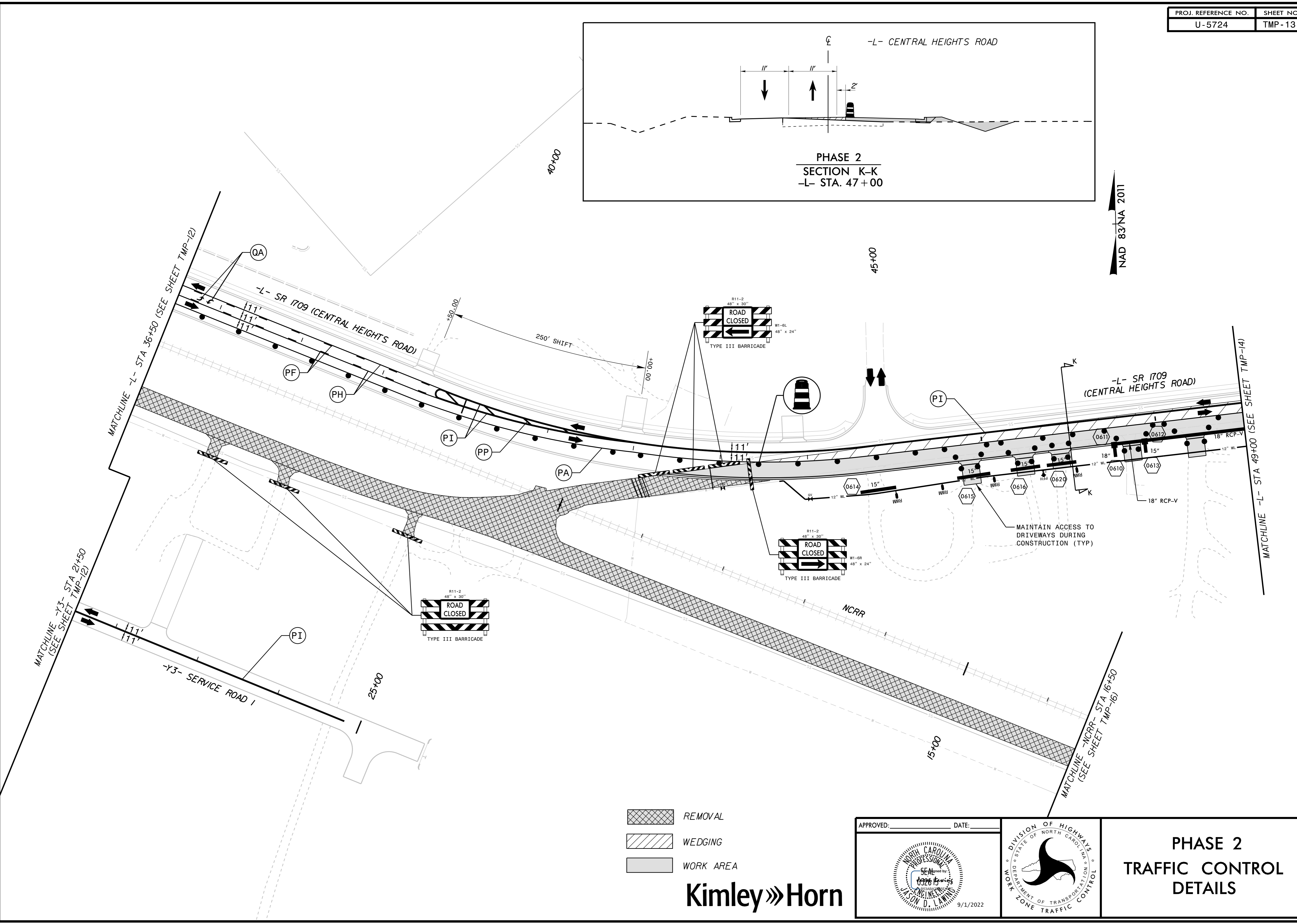





PHASE 2
TRAFFIC CONTROL
DETAILS

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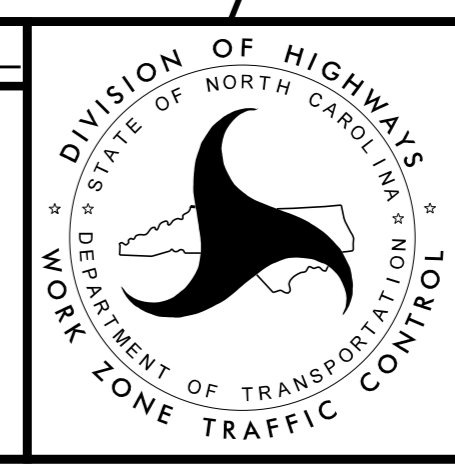
NAD 83/NA 2011



-  REMOVAL
-  WEDGING
-  WORK AREA

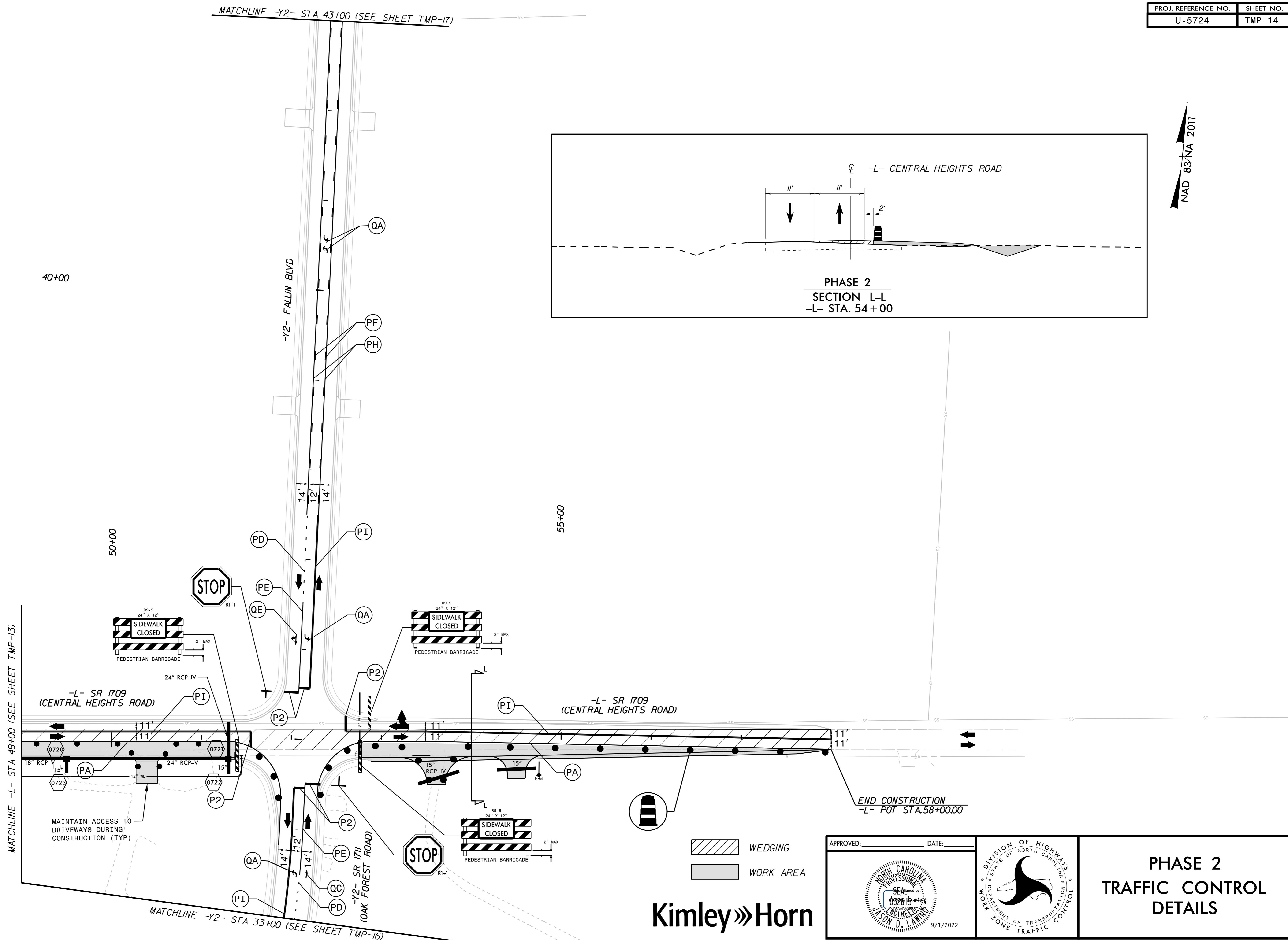
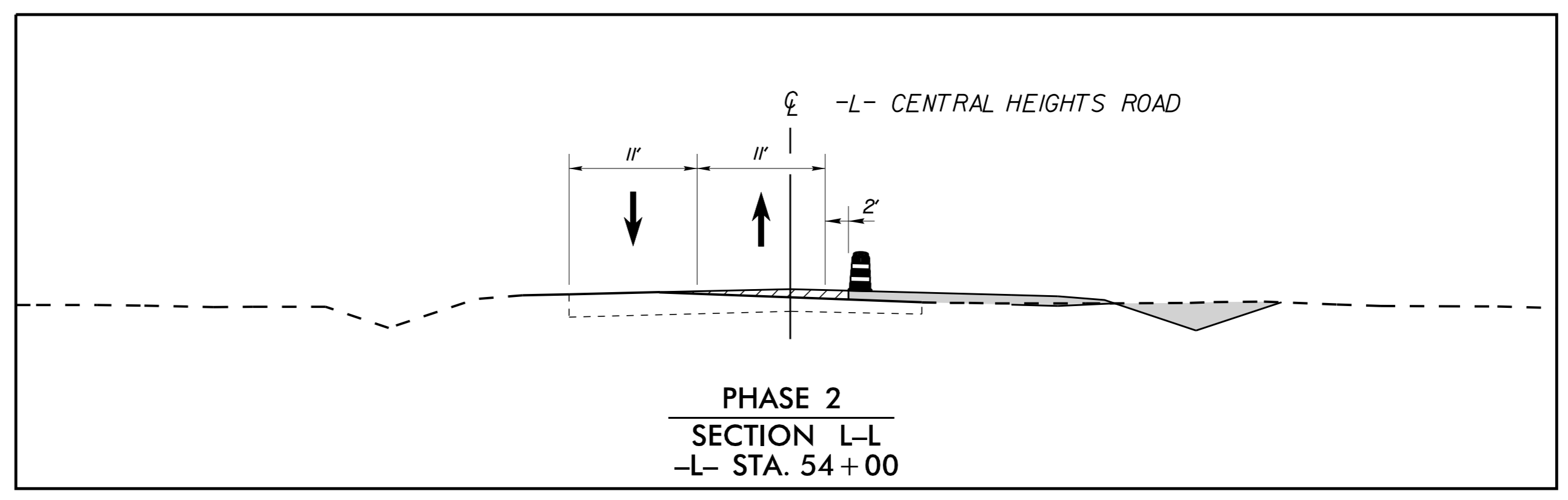
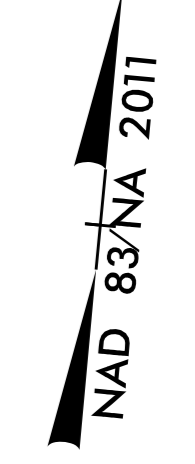
Kimley»Horn

APPROVED: _____ DATE: _____

**PHASE 2
TRAFFIC CONTROL
DETAILS**

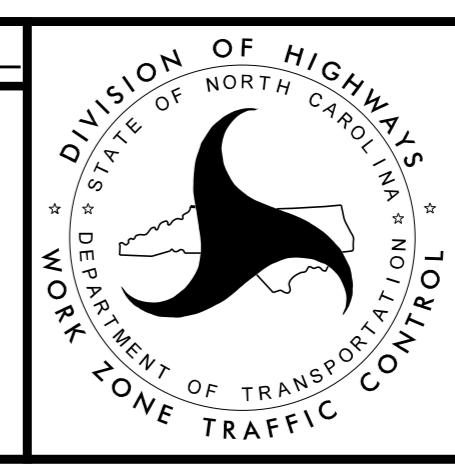
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3/16/2020

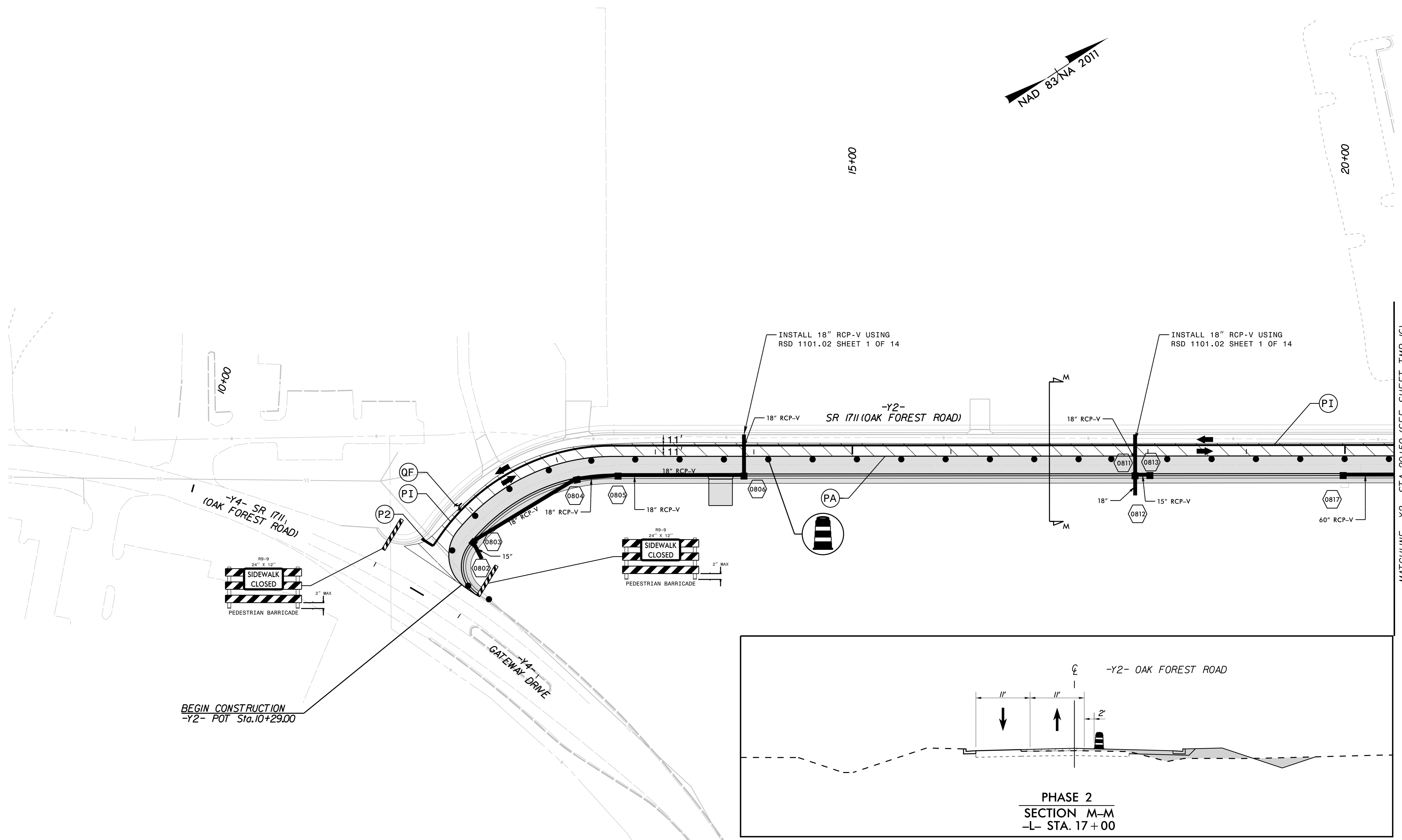
WEDGING
 WORK AREA

APPROVED: _____ DATE: _____

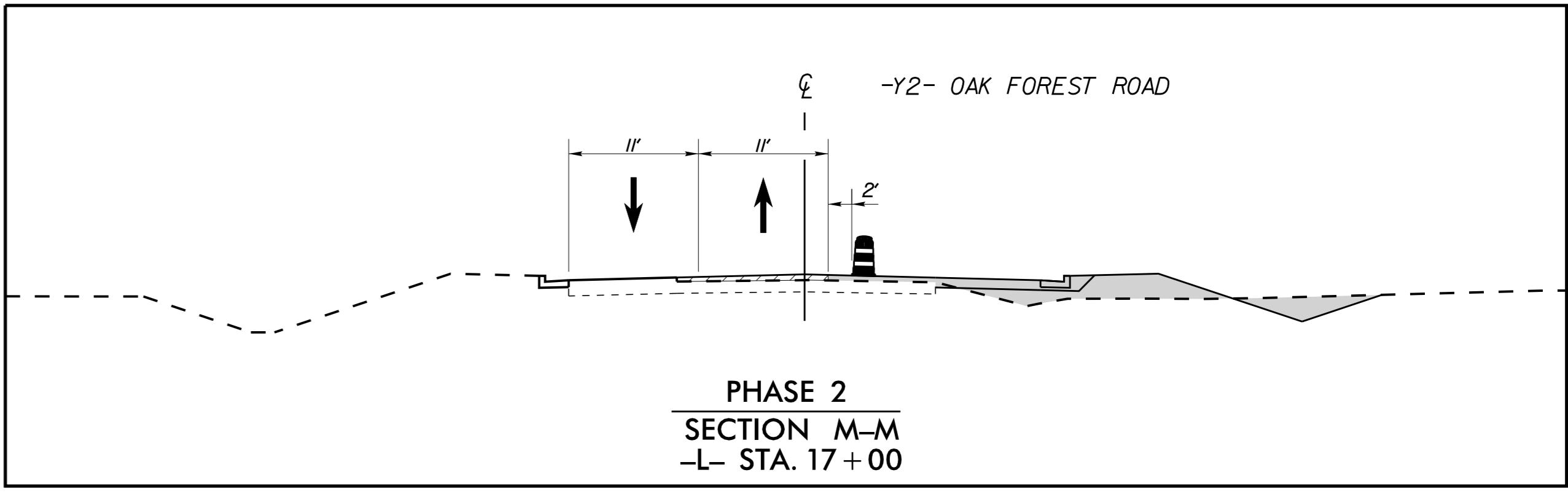


**PHASE 2
TRAFFIC CONTROL
DETAILS**





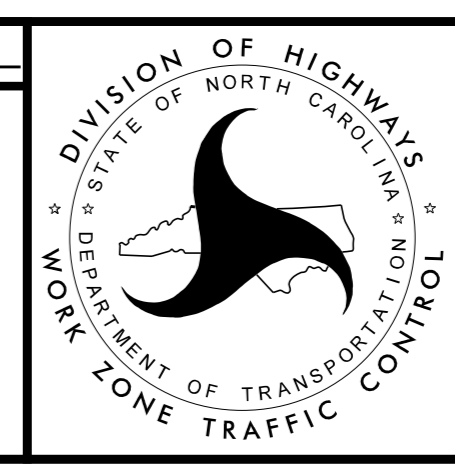
BEGIN CONSTRUCTION
-Y2- POT Sta. 10+29.00



WEDGING
 WORK AREA



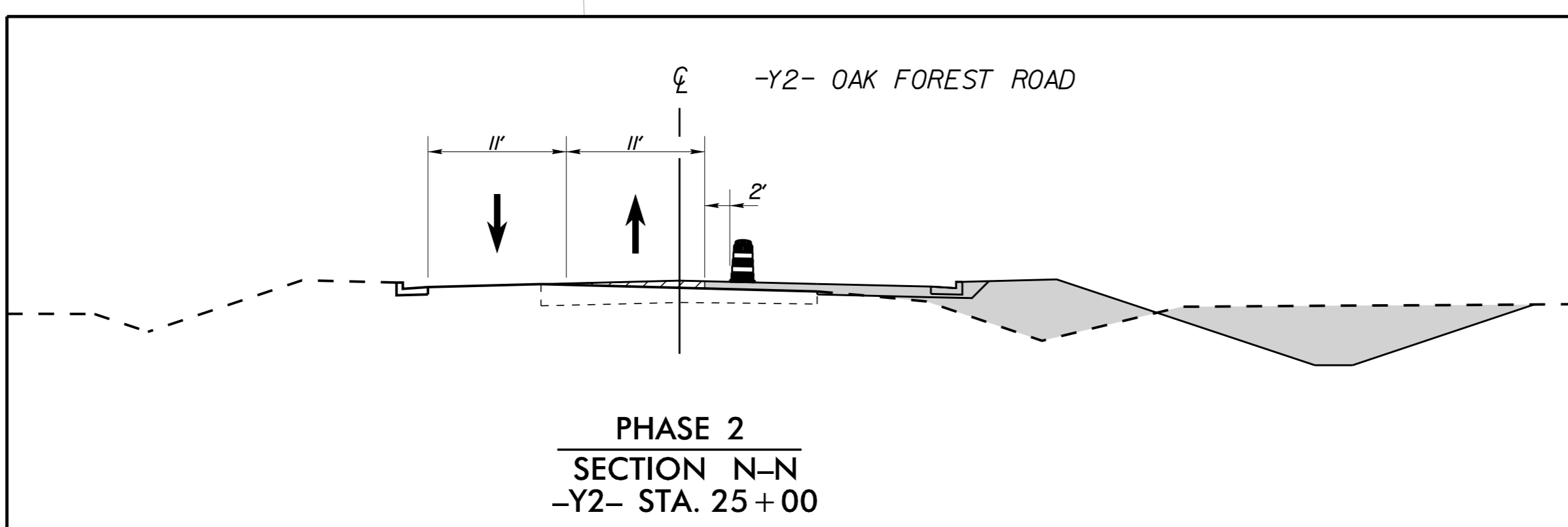
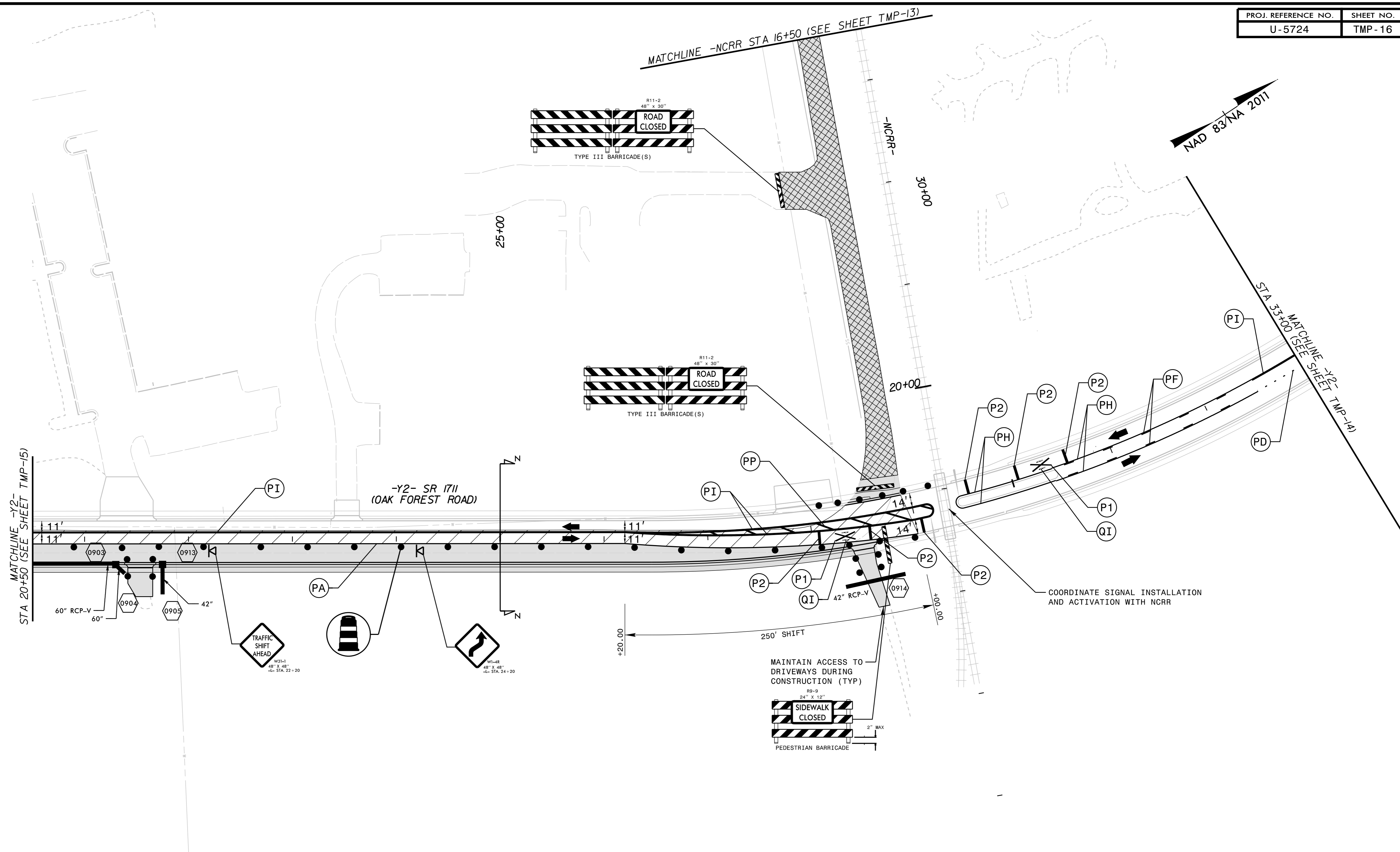
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**PHASE 2
TRAFFIC CONTROL
DETAILS**

3/16/2020 K:\RAL_Roadway\01036333 - U-5724 (Central Heights)\TrafficControl\CPSheets\U-5724_rdy_tmp_15.dgn

MATCHLINE -Y2- STA 20+50 (SEE SHEET TMP-16)



- REMOVAL
- WEDGING
- WORK AREA

Kimley»Horn

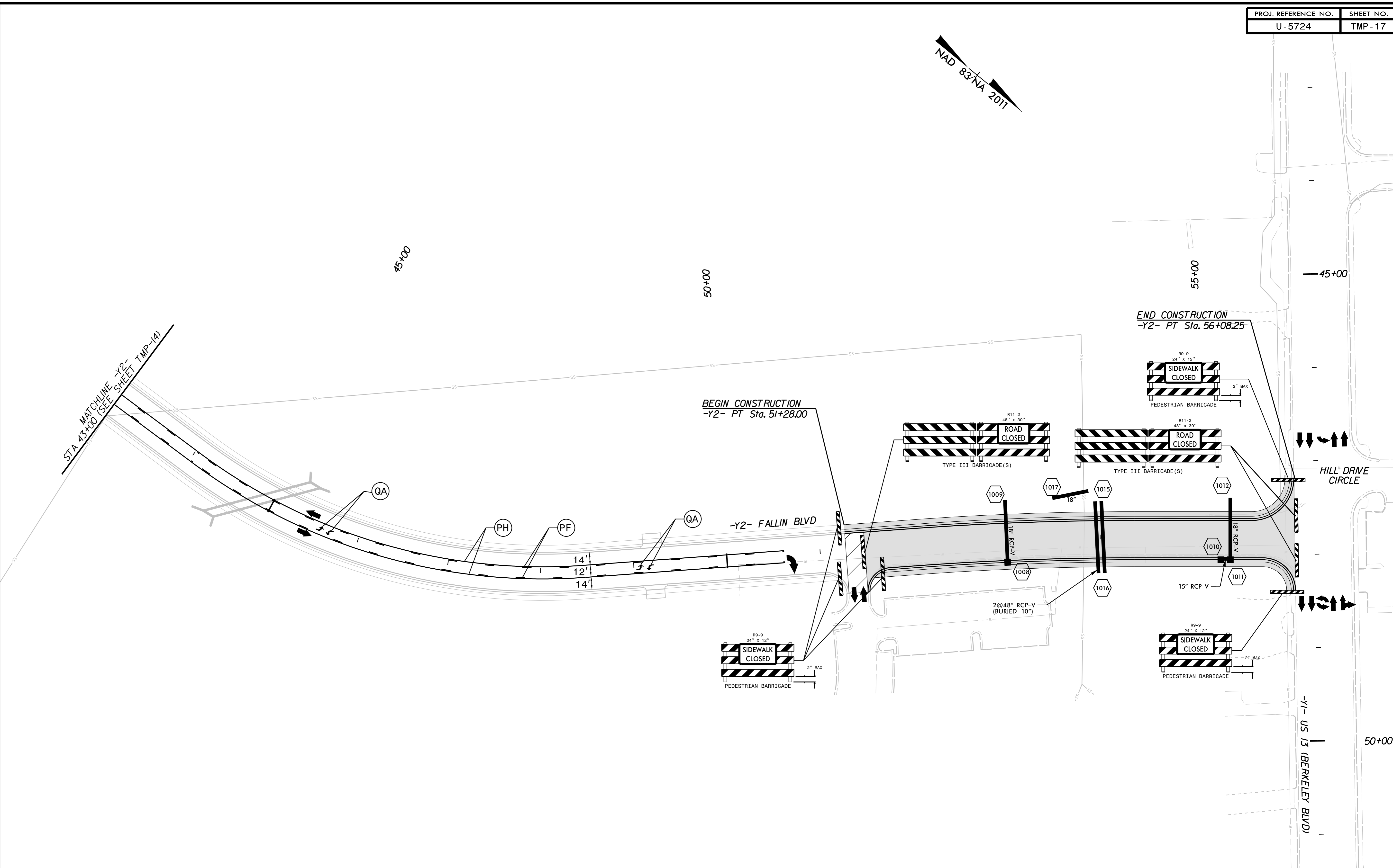
APPROVED: _____ DATE: _____

ALTON D. LAW
9/1/2022

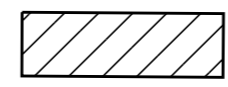

DIVISION OF HIGHWAYS
STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION
WORK ZONE TRAFFIC CONTROL

**PHASE 2
TRAFFIC CONTROL
DETAILS**

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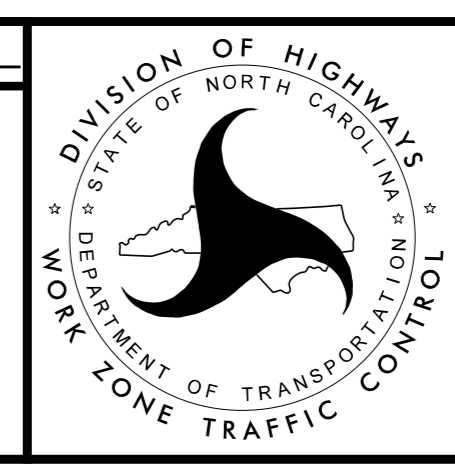


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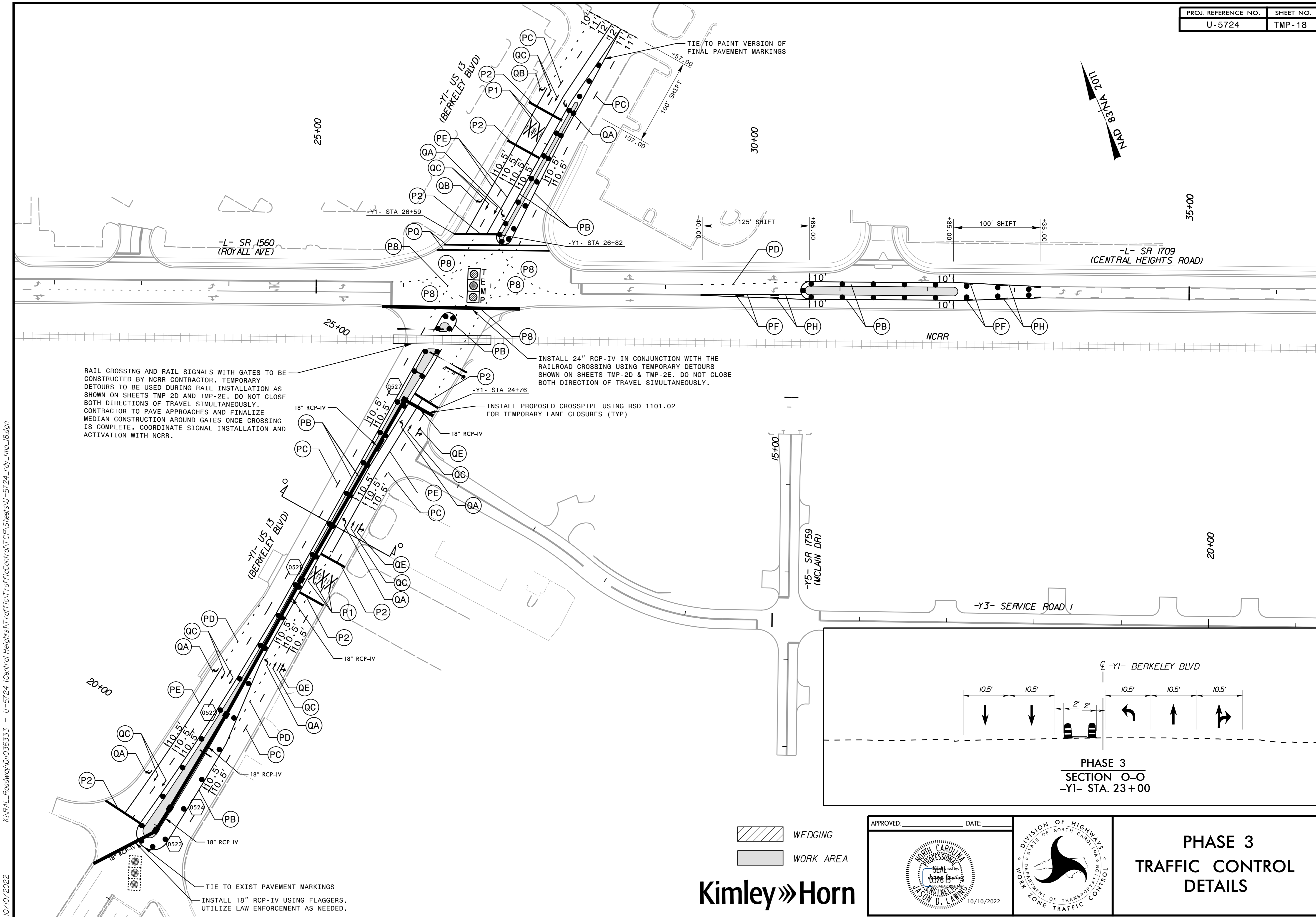
 WEDGING
 WORK AREA



APPROVED: _____ DATE: _____

PHASE 2 TRAFFIC CONTROL DETAILS

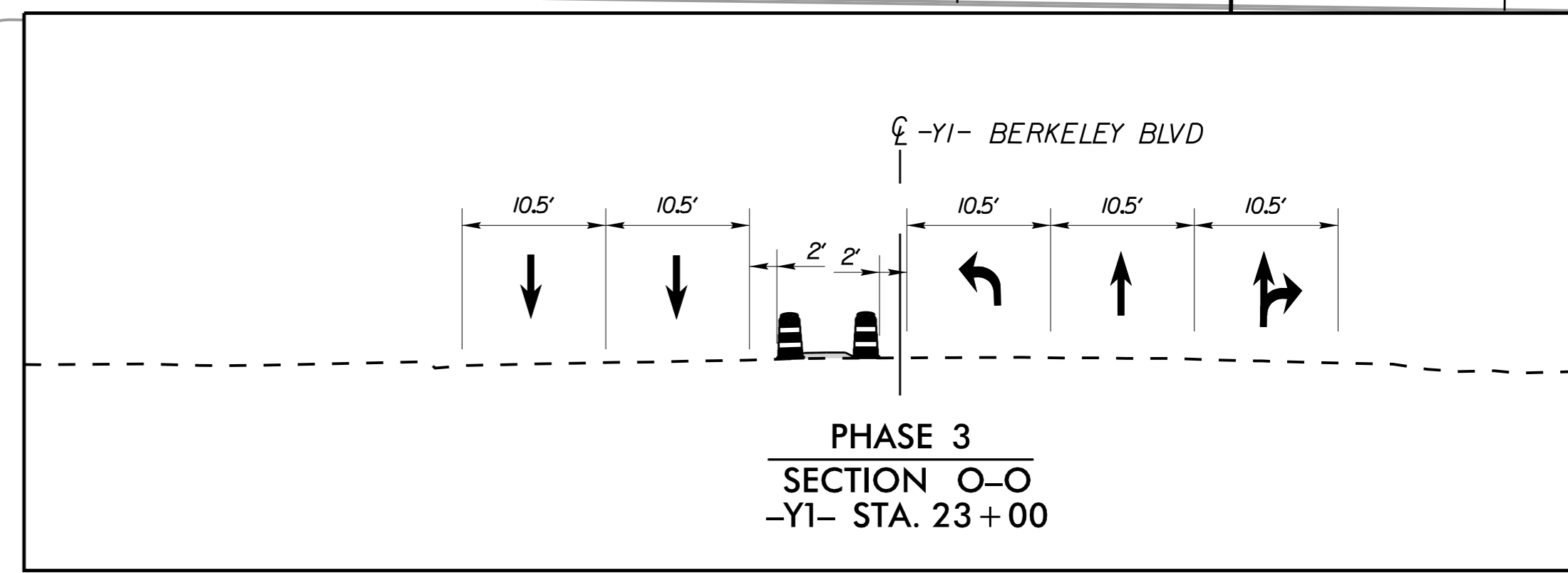


RAIL CROSSING AND RAIL SIGNALS WITH GATES TO BE CONSTRUCTED BY NCRR CONTRACTOR. TEMPORARY DETOURS TO BE USED DURING RAIL INSTALLATION AS SHOWN ON SHEETS TMP-2D AND TMP-2E. DO NOT CLOSE BOTH DIRECTIONS OF TRAVEL SIMULTANEOUSLY. CONTRACTOR TO PAVE APPROACHES AND FINALIZE MEDIAN CONSTRUCTION AROUND GATES ONCE CROSSING IS COMPLETE. COORDINATE SIGNAL INSTALLATION AND ACTIVATION WITH NCRR.

INSTALL 24" RCP-IV IN CONJUNCTION WITH THE RAILROAD CROSSING USING TEMPORARY DETOURS SHOWN ON SHEETS TMP-2D & TMP-2E. DO NOT CLOSE BOTH DIRECTION OF TRAVEL SIMULTANEOUSLY.

INSTALL PROPOSED CROSSPIPE USING RSD 1101.02 FOR TEMPORARY LANE CLOSURES (TYP)

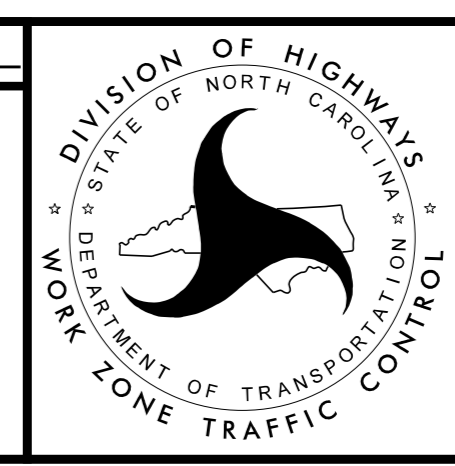
TIE TO EXIST PAVEMENT MARKINGS
INSTALL 18" RCP-IV USING FLAGGERS.
UTILIZE LAW ENFORCEMENT AS NEEDED.



WEDGING
 WORK AREA

Kimley»Horn

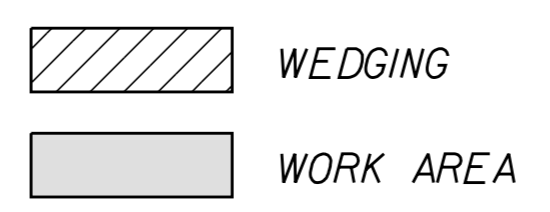
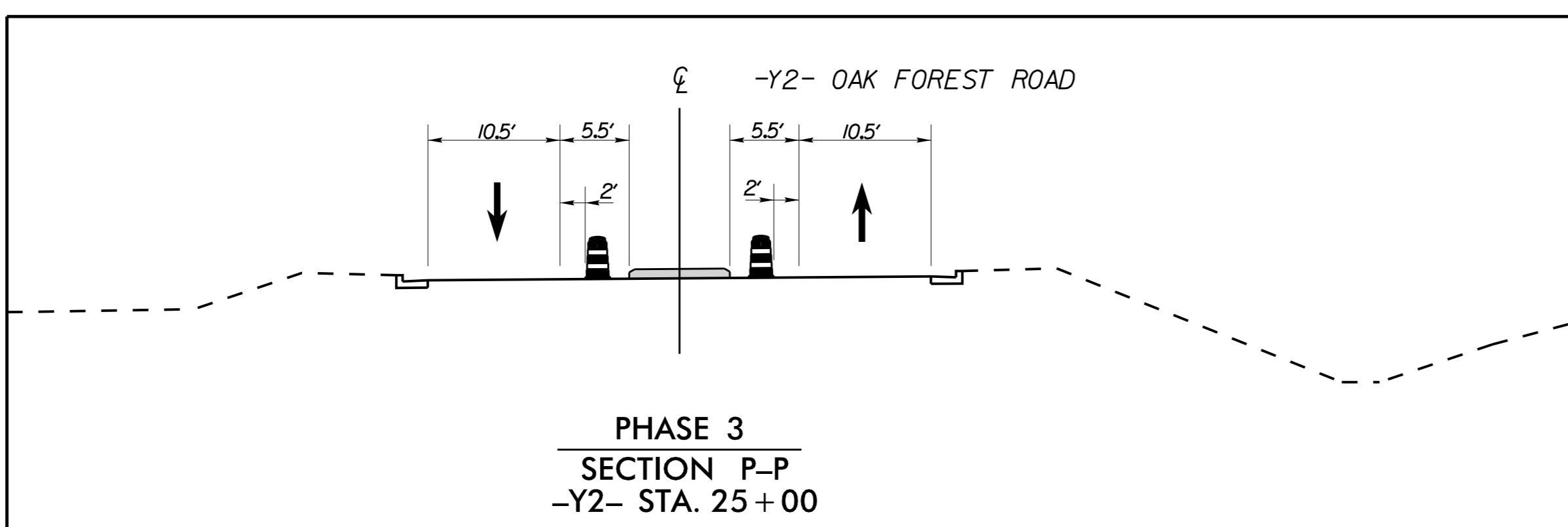
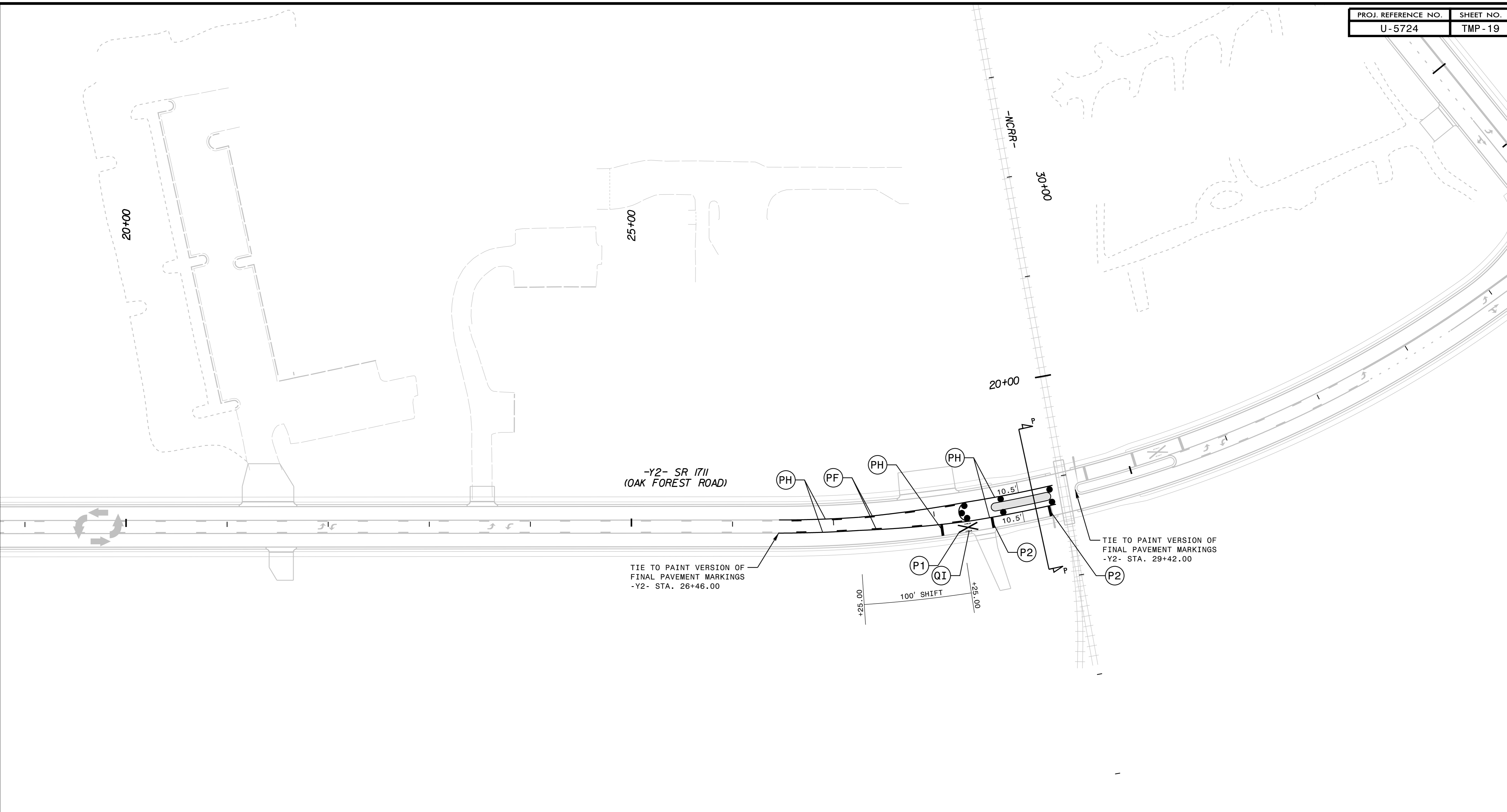
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PHASE 3
TRAFFIC CONTROL
DETAILS

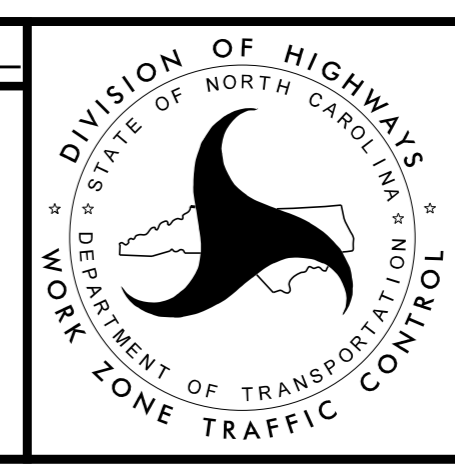
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**PHASE 3
TRAFFIC CONTROL
DETAILS**

