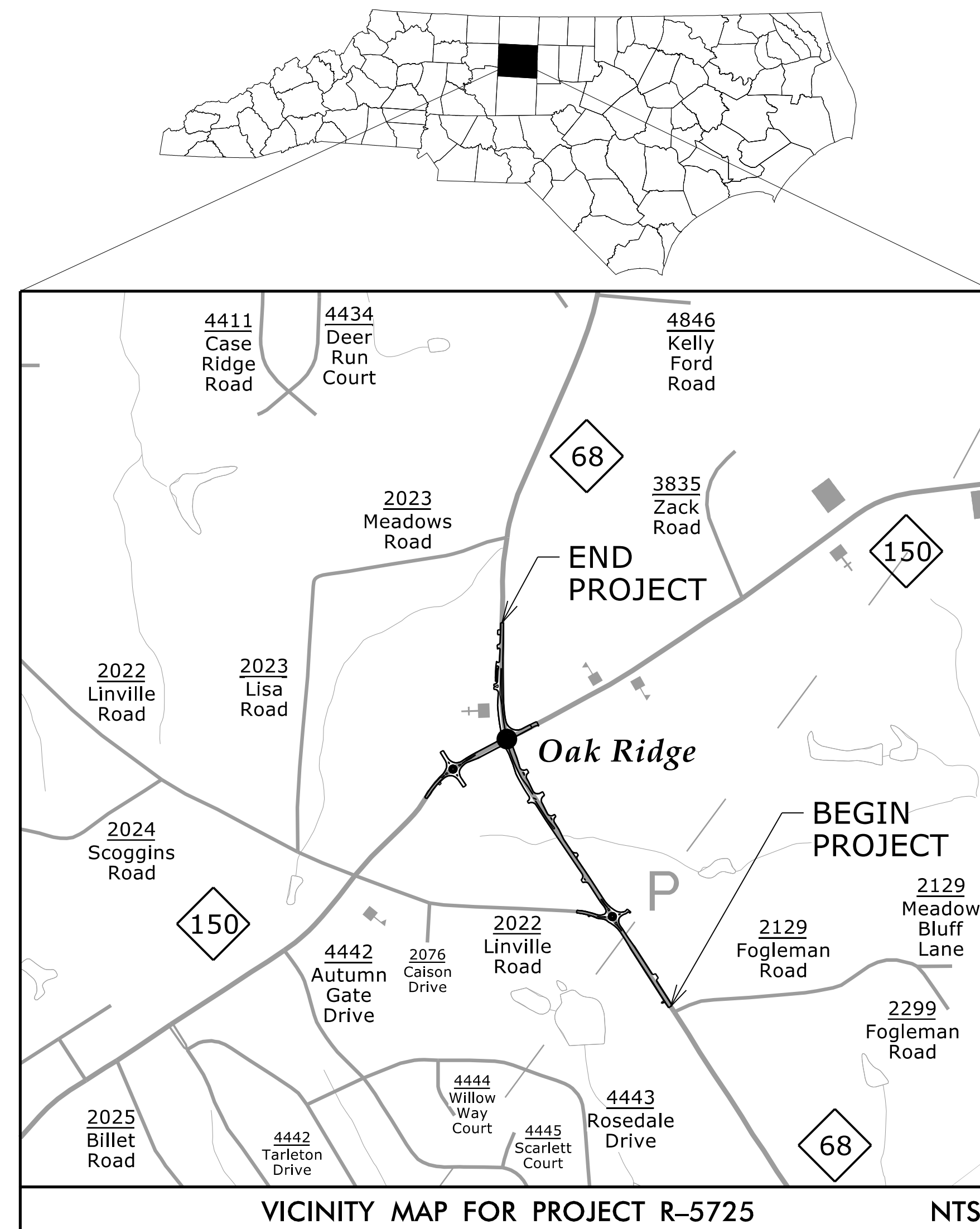


STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

TRANSPORTATION MANAGEMENT PLAN

GUILFORD COUNTY

LOCATION: INTERSECTION IMPROVEMENTS ALONG NC 68
AND NC 150 IN OAK RIDGE



VICINITY MAP FOR PROJECT R-5725 NTS

INDEX OF SHEETS

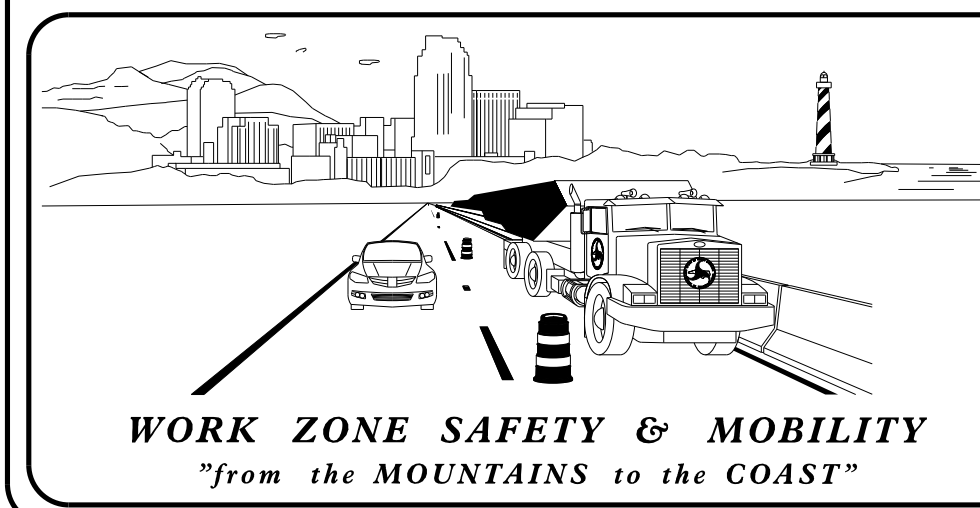
SHEET NO.	TITLE
TMP-1	TITLE SHEET, VICINITY MAP, AND INDEX OF SHEETS
TMP-1A	LIST OF APPLICABLE ROADWAY STANDARD DRAWINGS, AND LEGEND
TMP-1B THRU TMP-1C	TRANSPORTATION OPERATIONS PLAN: (GENERAL NOTES, MANAGEMENT STRATEGIES, AND LOCAL NOTES)
TMP-2	SPECIAL SIGN DESIGN
TMP-3 THRU TMP-3A	TEMPORARY TRAFFIC CONTROL PHASING
TMP-4 THRU TMP-10	TEMPORARY TRAFFIC CONTROL PHASE 1 DETAILS
TMP-11 THRU TMP-26	TEMPORARY TRAFFIC CONTROL PHASE 2 DETAILS
TMP-27 THRU TMP-30	TEMPORARY TRAFFIC CONTROL PHASE 3 DETAILS

SHEET NO.
TMP-1

R-5725

TIP PROJECT:

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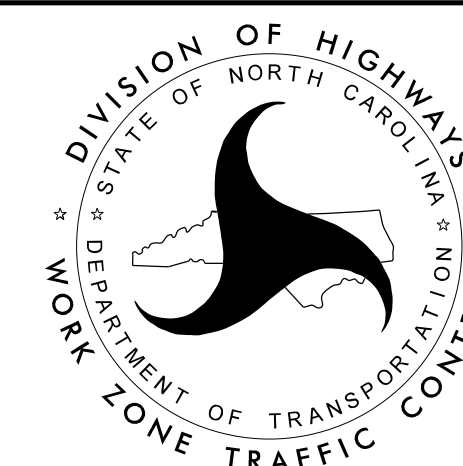
PLANS PREPARED BY:

MICHAEL BURNS, PE
PROJECT ENGINEER

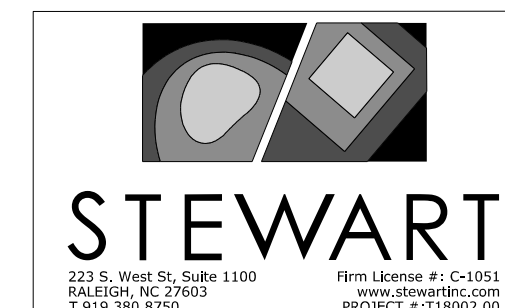
ZACHARY MCKENZIE
PROJECT DESIGNER

NCDOT CONTACTS:

BRIAN KETNER, PE
PROJECT ENGINEER



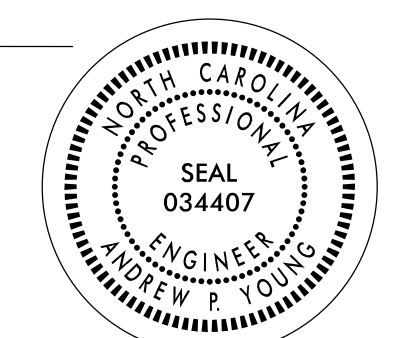
PREPARED IN THE OFFICE OF



APPROVED: Andrew P. Young
EF2108300624EF

DATE: 5/3/2023

SEAL



5/3/2023
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USER:zmckenzie

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:

STD. NO.	TITLE
1101.01	WORK ZONE ADVANCE WARNING SIGNS
1101.02	TEMPORARY LANE CLOSURES
1101.03	TEMPORARY ROAD CLOSURES
1101.11	TRAFFIC CONTROL DESIGN TABLES
1110.01	STATIONARY WORK ZONE SIGNS
1110.02	PORTABLE WORK ZONE SIGNS
1130.01	DRUM
1135.01	CONES
1145.01	BARRICADES
1150.01	FLAGGING
1160.01	TEMPORARY CRASH CUSHION
1180.01	SKINNY DRUMS
1205.01	PAVEMENT MARKINGS - LINE TYPES AND OFFSETS
1205.02	PAVEMENT MARKINGS - TWO LANE AND MULTILANE ROADWAYS
1205.04	PAVEMENT MARKINGS - INTERSECTIONS
1205.05	PAVEMENT MARKINGS - TURN LANES
1205.07	PAVEMENT MARKINGS - PEDESTRIAN CROSSWALKS
1205.08	PAVEMENT MARKINGS - SYMBOLS AND WORD MESSAGES
1261.01	GUARDRAIL AND BARRIER DELINEATORS - INSTALLATION SPACING
1261.02	GUARDRAIL AND BARRIER DELINEATORS - TYPES AND MOUNTING
1262.01	GUARDRAIL END DELINEATION

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
- WEDGING
- TEMPORARY PAVEMENT

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

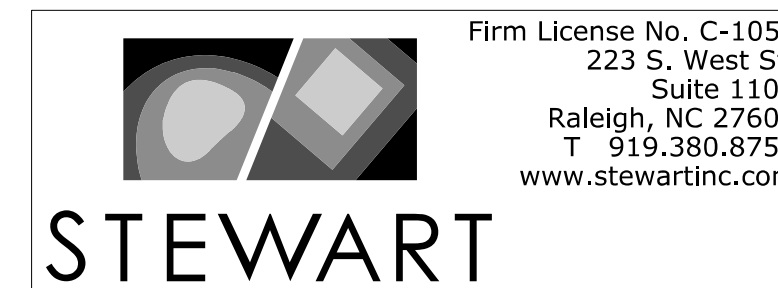
- CRYSTAL / CRYSTAL
- CRYSTAL / RED
- YELLOW / YELLOW

PAVEMENT MARKING SYMBOLS

- PAVEMENT MARKING SYMBOLS

TEMPORARY PAVEMENT MARKINGS

- P20 PAINT WHITE EDGELINE (6")
- P21 PAINT WHITE SOLID LANE LINE (6")
- P23 PAINT 3 FT. - 9 FT./SP WHITE MINISKIP (6")
- P24 PAINT 2 FT. - 6 FT./SP WHITE MINISKIP (6", 90 MIL)
- P31 PAINT YELLOW SINGLE CENTER (6", 90 MIL)
- P32 PAINT 10 FT. YELLOW SKIP (6", 90 MIL)
- P33 PAINT YELLOW DOUBLE CENTER (4")
- P42 PAINT YELLOW DIAGONAL (8", 90 MIL)
- P61 PAINT WHITE STOPBAR (24")
- P62 PAINT WHITE CROSSWALK LINE (24")
- P70 PAINT LEFT TURN ARROW
- P71 PAINT RIGHT TURN ARROW
- P72 PAINT STRAIGHT ARROW
- P74 PAINT COMBO. RIGHT/STRAIGHT ARROW
- P102 PAINT 12" YIELD LINE TRIANGLE

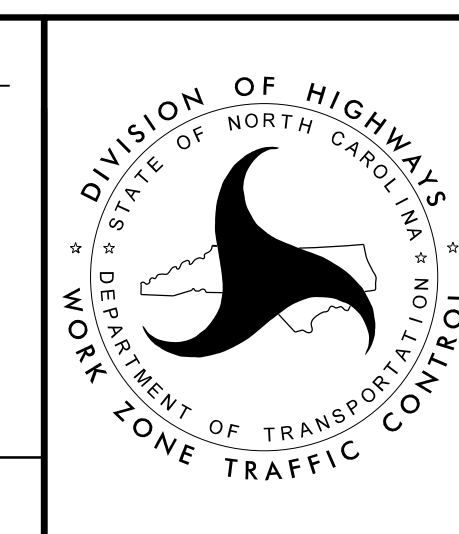


APPROVED: Andrew P. Young
EP21D93DD62F4EE

DATE: 5/3/2023

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ROADWAY STANDARD
DRAWINGS & LEGEND

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 UNDESIRE 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
NC 68	MONDAY THRU FRIDAY 6-9AM AND 4-7PM
NC 150	MONDAY THRU FRIDAY 6-9AM AND 4-7PM
SR 2022 (LINVILLE ROAD)	MONDAY THRU FRIDAY 6-9AM AND 4-7PM

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

ROAD NAME
NC 68
NC 150
SR 2022 (LINVILLE ROAD)

HOLIDAY

- FOR ANY UNEXPECTED OCCURRENCE THAT CREATES UNUSUALLY HIGH TRAFFIC VOLUMES, AS DIRECTED BY THE ENGINEER.
- FOR NEW YEAR'S, BETWEEN THE HOURS OF 6:00 A.M. DECEMBER 31st TO 7:00 P.M. JANUARY 2ND. IF NEW YEAR'S DAY IS ON A FRIDAY, SATURDAY, SUNDAY, OR MONDAY THEN UNTIL 7:00 P.M. THE FOLLOWING TUESDAY.
- FOR EASTER, BETWEEN THE HOURS OF 6:00 A.M. THURSDAY AND 7:00 P.M. MONDAY.
- FOR MEMORIAL DAY, BETWEEN THE HOURS OF 6:00 A.M. FRIDAY TO 7:00 P.M. TUESDAY.
- FOR INDEPENDENCE DAY, BETWEEN THE HOURS OF 6:00 A.M. THE DAY BEFORE INDEPENDENCE DAY AND 7:00 P.M. THE DAY AFTER INDEPENDENCE DAY.

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

LANE AND SHOULDER CLOSURE REQUIREMENTS

- C) REMOVE LANE CLOSURE DEVICES FROM THE LANE WHEN WORK IS NOT BEING PERFORMED BEHIND THE LANE CLOSURE OR WHEN A LANE CLOSURE IS NO LONGER NEEDED OR AS DIRECTED BY THE ENGINEER.
- D) WHEN PERSONNEL AND/OR EQUIPMENT ARE WORKING WITHIN 15 FT OF AN OPEN TRAVEL LANE, CLOSE THE NEAREST OPEN SHOULDER USING ROADWAY STANDARD DRAWING NO. 1101.04 UNLESS THE WORK AREA IS PROTECTED BY BARRIER OR GUARDRAIL OR A LANE CLOSURE IS INSTALLED.
- E) WHEN PERSONNEL AND/OR EQUIPMENT ARE WORKING ON THE SHOULDER ADJACENT TO AN UNDIVIDED FACILITY AND WITHIN 5 FT OF AN OPEN TRAVEL LANE, CLOSE THE NEAREST OPEN TRAVEL LANE USING ROADWAY STANDARD DRAWING NO. 1101.02 UNLESS THE WORK AREA IS PROTECTED BY BARRIER OR GUARDRAIL.

WHEN PERSONNEL AND/OR EQUIPMENT ARE WORKING ON THE SHOULDER ADJACENT TO A DIVIDED FACILITY AND WITHIN 10 FT OF AN OPEN TRAVEL LANE, CLOSE THE NEAREST OPEN TRAVEL LANE USING ROADWAY STANDARD DRAWING NO. 1101.02 UNLESS THE WORK AREA IS PROTECTED BY BARRIER OR GUARDRAIL.

LANE AND SHOULDER CLOSURE REQUIREMENTS (CONTD.)

- F) WHEN PERSONNEL AND/OR EQUIPMENT ARE WORKING WITHIN A LANE OF TRAVEL OF AN UNDIVIDED OR DIVIDED FACILITY, CLOSE THE LANE ACCORDING TO THE TRAFFIC CONTROL PLANS, ROADWAY STANDARD DRAWINGS, OR AS DIRECTED BY THE ENGINEER. CONDUCT THE WORK SO THAT ALL PERSONNEL AND/OR EQUIPMENT REMAIN WITHIN THE CLOSED TRAVEL LANE.
- G) DO NOT WORK SIMULTANEOUSLY WITHIN 15 FT ON BOTH SIDES OF AN OPEN TRAVELWAY, RAMP, OR LOOP WITHIN THE SAME LOCATION UNLESS PROTECTED WITH GUARDRAIL OR BARRIER.

PAVEMENT EDGE DROP OFF REQUIREMENTS

- H) 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.
- I) 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) 200 FT IN ADVANCE AND A MINIMUM OF EVERY HALF MILE THROUGHOUT THE UNEVEN AREA.

TRAFFIC PATTERN ALTERATIONS

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

SIGNING

- K) 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.
- L) 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.
- M) 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.
- N) ENSURE ALL NECESSARY SIGNING IS IN PLACE PRIOR TO ALTERING ANY TRAFFIC PATTERN.
- O) INSTALL BLACK ON ORANGE "DIP" SIGNS (W8-2) AND/OR "BUMP" SIGNS (W8-1) 200 FT IN ADVANCE OF THE UNEVEN AREA, OR AS DIRECTED BY THE ENGINEER.

TRAFFIC BARRIER

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

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

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

TRAFFIC BARRIER (CONTD.)

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

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

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

PROTECT THE APPROACH END OF MOVABLE/PORTABLE CONCRETE BARRIER FROM ONCOMING TRAFFIC AT ALL TIMES BY A TEMPORARY CRASH CUSHION UNLESS THE APPROACH END OF MOVABLE/PORTABLE CONCRETE BARRIER IS OFFSET FROM ONCOMING TRAFFIC AS FOLLOWS OR AS SHOWN IN THE PLANS: (SEE ALSO 1101.05)

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

TRAFFIC CONTROL DEVICES

- 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.

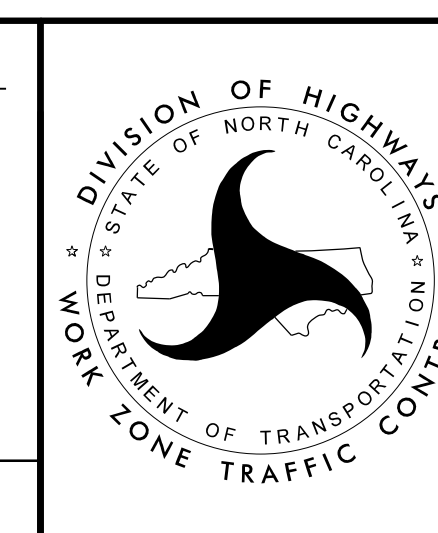
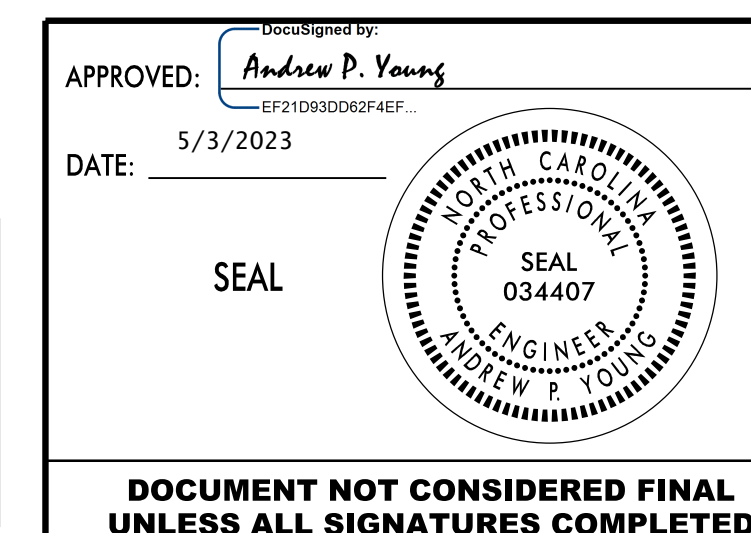
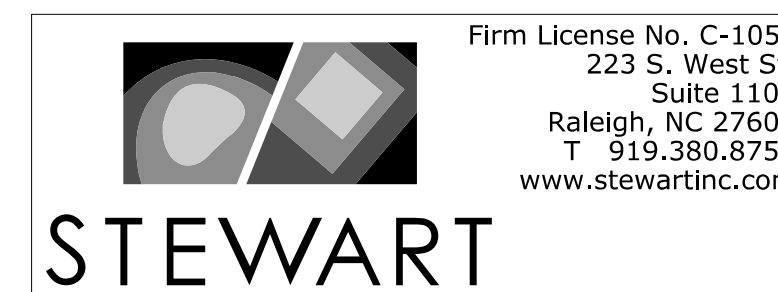
PAVEMENT MARKINGS AND MARKERS

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

ROAD NAME	MARKING	MARKER
NC 68	PAINT	NONE
NC 150	PAINT	NONE
SR 2022 (LINVILLE ROAD)	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) 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.
- Y) CONTRACTOR SHALL MAINTAIN SIDEWALK ACCESS AT ALL TIMES AS STATED IN THE PHASING. CONTRACTOR SHALL BE RESPONSIBLE TO PROVIDE TEMPORARY SIDEWALKS (CONCRETE, ASPHALT, OR OTHER SUITABLE MATERIAL AS APPROVED BY THE ENGINEER) AT ALL LOCATIONS WHERE THE OPEN PEDESTRIAN TRAVELWAY HAS BEEN REMOVED FOR CONSTRUCTION OPERATIONS (UTILITIES, DRAINAGE, ETC.).

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MANAGEMENT STRATEGIES

THE FOLLOWING LISTED WORK ZONE STRATEGIES ARE RECOMMENDED FOR INCLUSION WITHIN THIS TRANSPORTATION MANAGEMENT PLAN (TMP).

RECOMMENDED STRATEGIES:

TRAFFIC MANAGEMENT STRATEGIES:

FULL ROADWAY CLOSURES
 LANE SHIFTS OR CLOSURES
 ONE-LANE, TWO WAY OPERATION (FLAGGING)
 NIGHT WORK
 WEEKEND WORK
 WORK HOUR RESTRICTIONS FOR PEAK TRAVEL
 PEDESTRIAN / BICYCLE ACCOMMODATIONS
 OFF-SITE DETOURS / USE OF ALTERNATIVE ROUTES

WORK ZONE SAFETY & MOBILITY STRATEGIES:

TEMPORARY TRAFFIC SIGNALS

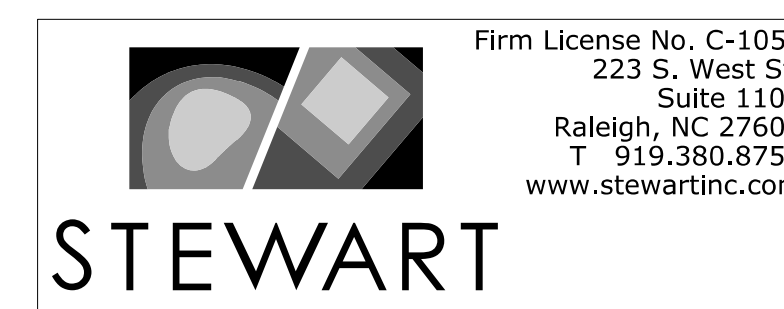
CONTRACTING & INNOVATIVE CONSTRUCTION STRATEGIES:

INTERMEDIATE CONTRACT TIMES / LIQUIDATED DAMAGES

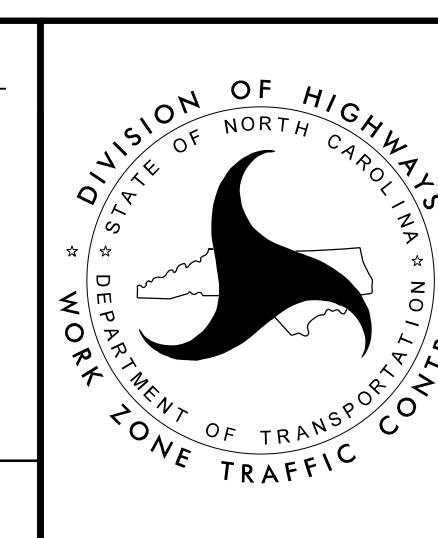
LOCAL NOTES

1. NOTIFY THE ENGINEER AT LEAST 30 DAYS PRIOR TO ANY TRAFFIC PATTERN ALTERATION.
2. NOTIFY THE GUILFORD COUNTY SCHOOLS TRANSPORTATION DIRECTOR 30 DAYS PRIOR TO ROAD CLOSURE AND/OR LANE REDUCTION.
3. NOTIFY THE GUILFORD COUNTY EMERGENCY MANAGEMENT SERVICES DIRECTOR 30 DAYS PRIOR TO ROAD CLOSURE AND/OR LANE REDUCTION.
4. REFERENCE UTILITY CONSTRUCTION PLANS FOR WATER AND SEWER LINE DESIGNS.
5. ACCESS TO ALL BUSINESSES AND RESIDENCES WITHIN THE PROJECT LIMITS MUST BE MAINTAINED AT ALL TIMES.

5/3/2023
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 USER:zmckenzie



Documented by:
 APPROVED: *Andrew P. Young*
EF210930062F4EF...
 DATE: 5/3/2023
 SEAL



**TRANSPORTATION
 OPERATIONS
 PLAN**

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SIGN NUMBER: SP-1 **BACKG COLOR:** Fluorescent Orange
TYPE: STATIONARY **COPY COLOR:** Black
QUANTITY: SEE PLANS
SIGN WIDTH: 2'-6"
HEIGHT: 2'-0"
TOTAL AREA: 5.0 Sq.Ft.
BORDER TYPE: INSET
RECESS: 0.47"
WIDTH: 0.63"
RADII: 1.5"
NO. Z BARS: **MAT'L:** 0.080" (2.0 mm) ALUMINUM
LENGTH:

SYMBOL	X	Y	WID	HT

DESIGN BY: Zachary McKenzie, EI **CHECKED BY:** Michael Burns, PE **Jul 21, 2022**
PROJECT ID: R-5725 **LOCATION:** Guilford County **DIV:** 7



BORDER R=1.5"
 TH=0.63"
 IN=0.47"
 Panel Style: construction_guide.ssi
 M.U.T.C.D.: 2009 Edition

- USE NOTES:** 1,2
- Legend and border shall be direct applied black non-reflective sheeting.
 - Background shall be NC GRADE B fluorescent orange retroreflective sheeting.

Spacing Factor is 1 unless specified otherwise

LETTER POSITIONS

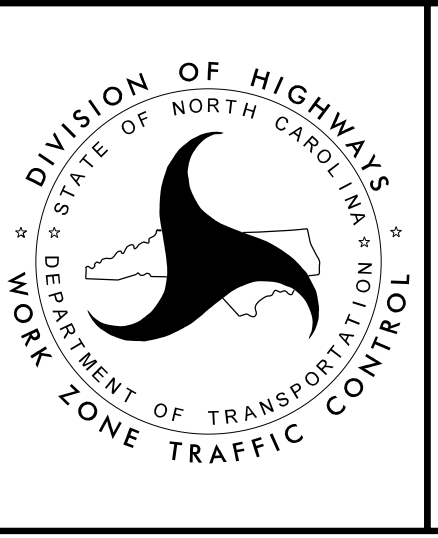
Letter locations are panel edge to lower left corner																					Series/Size Text Length
L	I	N	V	I	L	L	E														C 2000
5.7	8.3	9.8	12.6	15.6	17	19.6	22.2														18.6
R	O	A	D																		C 2000
9.5	12.3	15.2	18.3																		11

FILENAME: R5725_TC_TMP_JQR

NORTH CAROLINA D.O.T. SIGN DETAIL



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 DATE: 5/3/2023
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SPECIAL SIGN DESIGN

PHASING

PROJ. REFERENCE NO.	SHEET NO.
R-5725	TMP-3

PHASE 1

STEP 1

USING ROADWAY STANDARD DRAWING (RSD) 1101.01 SHEET 3 OF 3 AND SHEET TMP-04 INSTALL WORK ZONE ADVANCE WARNING SIGNS ALONG NC 68, NC 150, AND SR 2022 (LINVILLE ROAD).

STEP 2

USING RSD 1101.02 SHEET 1 OF 14 AND SHEET TMP-05, CONSTRUCT THE PROPOSED AND TEMPORARY PAVEMENT AT INTERSECTION OF NC 68 AND NC 150. DRUM ISLANDS TO MAINTAIN EXISTING TRAFFIC PATTERN.

USING RSD 1101.02 SHEET 2 OF 14 AND SHEET TMP-05, COMPLETE THE FOLLOWING:

- CLOSE MARKETPLACE DRIVE TO THRU TRAFFIC.
- SHIFT EASTBOUND NC 150 TRAFFIC INTO THE CENTER LANE OF NC 150 AND CLOSE THE EASTBOUND LANE.
- INSTALL TEMPORARY PORTABLE CONCRETE BARRIER AS WELL AS BARRICADES TO CLOSE SIDEWALKS ALONG -DRIVE1- AND -DRIVE2- (MARKETPLACE DRIVE).
- CONSTRUCT WATERLINE AND SEWER LINE AS SHOWN IN UTILITY CONSTRUCTION PLANS.
- CONSTRUCT -DRIVE2- (MARKETPLACE DRIVE) UP TO BUT NOT INCLUDING THE FINAL LAYER OF ASPHALT PAVEMENT AS WELL AS MONOLITHIC ISLAND.
- REMOVE TEMPORARY PORTABLE CONCRETE BARRIER FROM RT SIDE OF NC 150 AND ANY OTHER WORK ZONE TRAFFIC CONTROL DEVICES IN ORDER TO REOPEN -DRIVE2- (MARKETPLACE DRIVE) TO THRU TRAFFIC AND PEDESTRIANS.

STEP 3

USING SHEET TMP-06 AND RSD 1101.02 SHEET 1 OF 14 AS NEEDED, COMPLETE THE FOLLOWING:

- SHIFT NC 150 TRAFFIC INTO A TWO-LANE TWO-WAY PATTERN AND INSTALL TEMPORARY PORTABLE CONCRETE BARRIER.
- INSTALL PEDESTRIAN BARRICADES AND CLOSE SIDEWALK TO PEDESTRIANS.
- INSTALL TEMPORARY PAINT PAVEMENT MARKINGS.
- CONSTRUCT -Y2A- RT AND -Y2B- RT FROM STA. 10+00+/- TO 14+80+/- UP TO BUT NOT INCLUDING THE FINAL LAYER OF ASPHALT PAVEMENT AS WELL AS MONOLITHIC ISLAND.
- REMOVE TEMPORARY PORTABLE CONCRETE BARRIER AND PEDESTRIAN BARRICADES AND REOPEN SIDEWALK TO PEDESTRIANS.

STEP 4

USING SHEET TMP-07 AND RSD 1101.02 SHEET 1 OF 14 AS NEEDED, CONSTRUCT ASPHALT WEDGING ALONG -Y2A- RT AND -Y2B- RT FROM STA. 10+00+/- TO 14+80+/- UP TO BUT NOT INCLUDING THE FINAL LAYER OF ASPHALT PAVEMENT AS WELL AS MONOLITHIC ISLAND.

INSTALL TEMPORARY PAINT PAVEMENT MARKINGS AND SHIFT NC 150 TRAFFIC INTO A TWO-LANE TWO-WAY PATTERN.

STEP 5

USING SHEET TMP-08 AND RSD 1101.02 SHEET 1 OF 14 AS NEEDED, COMPLETE THE FOLLOWING:

- INSTALL TEMPORARY PORTABLE CONCRETE BARRIER AND DRUMS ALONG NC 150.
- CONSTRUCT -Y2A- LT AND -Y2B- LT FROM STA. 10+00+/- TO 14+80+/- UP TO BUT NOT INCLUDING THE FINAL LAYER OF ASPHALT PAVEMENT AS WELL AS MONOLITHIC ISLAND.

WORK IN A CONTINUOUS MANNER TO COMPLETE THE FOLLOWING STEPS IN TWENTY-ONE (21) CONSECUTIVE CALENDAR DAYS. SEE INTERMEDIATE CONTRACT TIME.

STEP 6

USING SHEET TMP-09 AND RSD 1101.02 SHEET 1 OF 14 AS NEEDED, COMPLETE THE FOLLOWING:

- CLOSE -DRIVE1- TO THRU TRAFFIC.
- INSTALL TEMPORARY PORTABLE CONCRETE BARRIER AS WELL AS BARRICADES TO CLOSE SIDEWALKS ALONG -DRIVE1-.
- CONSTRUCT -DRIVE1- UP TO BUT NOT INCLUDING THE FINAL LAYER OF ASPHALT PAVEMENT AS WELL AS MONOLITHIC ISLAND.
- REMOVE TEMPORARY PORTABLE CONCRETE BARRIER AND ANY OTHER WORK ZONE TRAFFIC CONTROL DEVICES IN ORDER TO REOPEN -DRIVE1- TO THRU TRAFFIC AND PEDESTRIANS.

STEP 7

USING SHEET TMP-10 AND RSD 1101.02 SHEET 1 OF 14 AS NEEDED, COMPLETE THE FOLLOWING:

- SHIFT TRAFFIC INTO TEMPORARY ROUNDABOUT PATTERN USING DRUMS TO DELINEATE INNER RING AS WELL AS MONOLITHIC ISLAND.
- INSTALL TEMPORARY PAVEMENT MARKINGS.

PHASE 2

STEP 1

USING RSD 1101.02 SHEET 1 OF 14 AND SHEETS TMP-11 THRU TMP-13 REMOVE EXISTING MONOLITHIC ISLANDS ALONG -L2- WITHIN THE PROJECT LIMITS AND CONSTRUCT ASPHALT PAVEMENT WHERE REMOVED ISLANDS WERE AS NEEDED.

STEP 2

USING RSD 1101.02 SHEET 1 OF 14 AND SHEET TMP-11, COMPLETE THE FOLLOWING:

- INSTALL DRUMS ALONG -L2- LT FROM STA. 10+00+/- TO 22+25+/- TO CLOSE SHOULDER.
- CONSTRUCT TEMPORARY ASPHALT PAVEMENT ALONG -L2- LT FROM STA. 10+45+/- TO 22+25+/-.
- CONSTRUCT ASPHALT WEDGING ALONG -L2- FROM STA. 10+45+/- TO 19+00+/- TO SHIFT CROWN POINT TO BE LOCATED 28' FROM LT SIDE OF ROADWAY.
- INSTALL TEMPORARY PAINT PAVEMENT MARKINGS.

STEP 3

USING RSD 1101.02 SHEET 1 OF 14 AND SHEETS TMP-14 THRU TMP-16, COMPLETE THE FOLLOWING:

- SHIFT NC 68 TRAFFIC INTO A TWO-LANE TWO-WAY PATTERN.
- INSTALL TEMPORARY PAINT PAVEMENT MARKINGS.
- CLOSE THE SHOULDER OF NC 68 BY INSTALLING TEMPORARY CONCRETE BARRIER ALONG THE FOLLOWING:
 - L2- RT FROM 10+45+/- TO 39+50+/-
 - L2- LT FROM 16+00+/- TO 21+65+/-
- CONSTRUCT -L2- RT UP TO BUT NOT INCLUDING THE FINAL LAYER OF ASPHALT PAVEMENT AS WELL AS MONOLITHIC ISLANDS FOR DRIVEWAYS. CONSTRUCT 72" WELDED STEEL PIPE BEHIND SHOULDER CLOSURES.
- CONSTRUCT -Y2B- LT STA. 16+09+/- TO 18+00+/- UP TO BUT NOT INCLUDING THE FINAL LAYER OF ASPHALT PAVEMENT.
- CONTRACTOR MAY CONTINUE TO STEP 4 ONCE THE AREA FROM -L2- RT STA. 10+45+/- TO 22+65+/- IS COMPLETED AS OUTLINED IN STEP 3, POINT D.

STEP 4

USING RSD 1101.02 SHEET 1 OF 14 AND SHEET TMP-17, COMPLETE THE FOLLOWING:

- SHIFT NC 68 NORTHBOUND TRAFFIC ONTO THE NEWLY BUILT LANE A TWO-LANE TWO-WAY PATTERN WHILE MAINTAINING NC 68 SOUTHBOUND TRAFFIC IN ITS EXISTING CONDITION. CLOSE CENTER LANE BETWEEN NC 68 NORTHBOUND AND SOUTHBOUND TRAFFIC AND INSTALL TEMPORARY PAINT PAVEMENT MARKINGS.
- INSTALL TEMPORARY PORTABLE CONCRETE BARRIER.
- CONSTRUCT -L2- STA. 10+65+/- TO 20+00+/- UP TO BUT NOT INCLUDING THE FINAL LAYER OF ASPHALT PAVEMENT.

STEP 5

USING RSD 1101.02 SHEET 1 OF 14 AND SHEETS TMP-18 THRU TMP-20, COMPLETE THE FOLLOWING:

- CONSTRUCT ASPHALT WEDGING ALONG -L2- FROM STA. 23+15+/- TO 39+50+/- TO SHIFT CROWN POINT ALONG THE ROADWAY AND PROVIDE POSITIVE DRAINAGE FOR STEP 6.
- SHIFT NC 68 TRAFFIC INTO A TWO-LANE TWO-WAY PATTERN UTILIZING THE AREAS BUILT IN STEP 3 AND STEP 4.
- INSTALL TEMPORARY PAINT PAVEMENT MARKINGS.

STEP 6

USING RSD 1101.02 SHEET 1 OF 14 AND SHEETS TMP-21 THRU TMP-23, COMPLETE THE FOLLOWING:

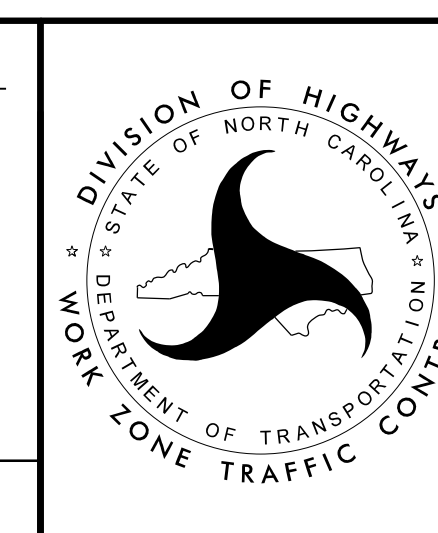
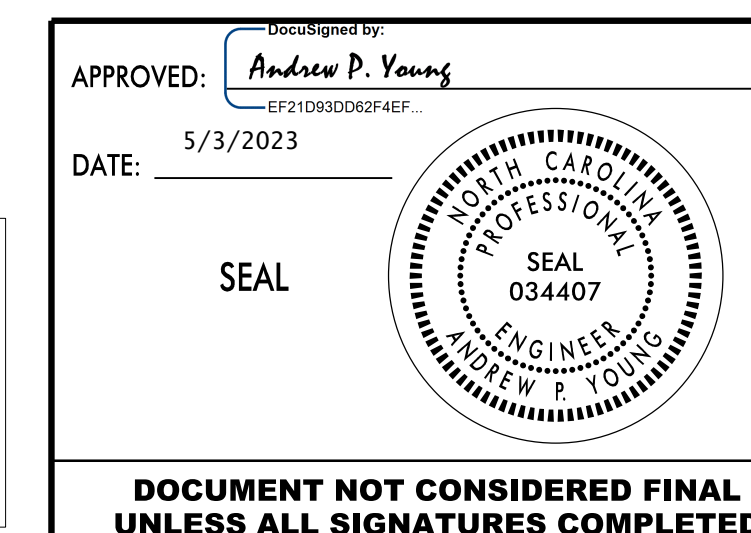
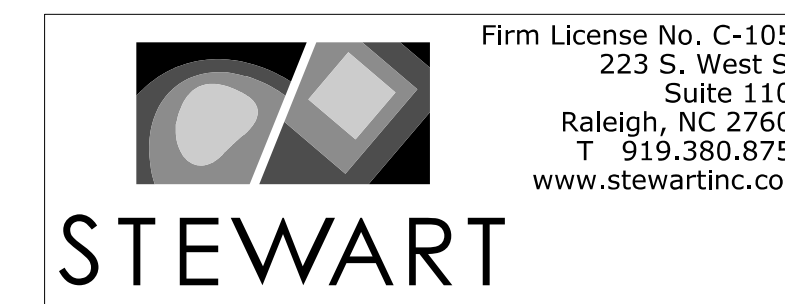
- INSTALL TEMPORARY PORTABLE CONCRETE BARRIER AND DRUMS.
- CONSTRUCT -L2- LT UP TO BUT NOT INCLUDING THE FINAL LAYER OF ASPHALT PAVEMENT.
- CONSTRUCT -Y2B- RT UP TO BUT NOT INCLUDING THE FINAL LAYER OF ASPHALT PAVEMENT FROM STA. 15+85+/- TO 18+00+/-.
- CONSTRUCT MONOLITHIC ISLAND FROM -Y2B- LT STA. 15+85+/- TO 16+35+/-.

STEP 7

USING RSD 1101.02 SHEET 1 OF 14 AND SHEETS TMP-24 THRU TMP-26, COMPLETE THE FOLLOWING:

- REMOVE TEMPORARY TRAFFIC CONTROL DEVICES AS NEEDED.
- INSTALL TEMPORARY PAINT PAVEMENT MARKINGS.

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TEMPORARY TRAFFIC CONTROL PHASING

PHASING

PROJ. REFERENCE NO.	SHEET NO.
R-5725	TMP-3A

PHASE 3

STEP 1

USING RSD 1101.02 SHEET 2 OF 14 AND SHEETS TMP-27, COMPLETE THE FOLLOWING:

- A. SHIFT NORTHBOUND NC 68 TRAFFIC INTO THE CENTER LANE OF NC 68 AND CLOSE THE NORTHBOUND LANE.
- B. INSTALL TEMPORARY PAINT PAVEMENT MARKINGS.
- C. INSTALL TEMPORARY PORTABLE CONCRETE BARRIER.
- D. CONSTRUCT -L1- RT FROM 17+35+/- TO STA. 21+17+/- UP TO BUT NOT INCLUDING THE FINAL LAYER OF ASPHALT PAVEMENT AS WELL AS MONOLITHIC ISLAND. CONSTRUCT -DRIVE3- UP TO BUT NOT INCLUDING THE FINAL LAYER OF ASPHALT PAVEMENT AS WELL AS MONOLITHIC ISLANDS.
- E. REMOVE TEMPORARY PORTABLE CONCRETE BARRIER AND ANY OTHER WORK ZONE TRAFFIC CONTROL DEVICES IN ORDER TO REOPEN -DRIVE3- TO TRAFFIC.

STEP 2

USING RSD 1101.02 SHEET 1 OF 14 AND SHEETS TMP-28 THRU TMP-29, COMPLETE THE FOLLOWING:

- A. CLOSE SR 2022 (LINVILLE ROAD) AND DETOUR THRU TRAFFIC OFF-SITE.
- B. SHIFT NORTHBOUND NC 68 TRAFFIC INTO THE CENTER LANE OF NC 68 AND CLOSE THE NORTHBOUND LANE.
- C. INSTALL TEMPORARY PAINT PAVEMENT MARKINGS.
- D. INSTALL TEMPORARY PORTABLE CONCRETE BARRIER.
- E. CONSTRUCT -L1-/-L2- LT FROM 17+98+/- TO STA. 11+71+/- UP TO BUT NOT INCLUDING THE FINAL LAYER OF ASPHALT PAVEMENT AS WELL AS MONOLITHIC ISLAND. CONSTRUCT -Y1- (LINVILLE ROAD) UP TO BUT NOT INCLUDING THE FINAL LAYER OF ASPHALT PAVEMENT AS WELL AS MONOLITHIC ISLANDS.
- F. REMOVE TEMPORARY PORTABLE CONCRETE BARRIER AND ANY OTHER WORK ZONE TRAFFIC CONTROL DEVICES IN ORDER TO REOPEN -Y1- (LINVILLE ROAD) TO THRU TRAFFIC

STEP 3

USING RSD 1101.02 SHEET 1 OF 14 AND SHEETS TMP-30, COMPLETE THE FOLLOWING:

- A. SHIFT 68 TRAFFIC INTO A TWO-LANE TWO-WAY PATTERN WITH TWO-WAY LEFT TURNING LANE.
- B. INSTALL TEMPORARY PAINT PAVEMENT MARKINGS.
- C. CONSTRUCT -L1- FROM 11+50+/- TO STA. 17+98+/- UP TO BUT NOT INCLUDING THE FINAL LAYER OF ASPHALT PAVEMENT AS WELL AS MONOLITHIC ISLAND. CONSTRUCT PAVEMENT WEDGING FOR THE REMAINDER OF -L1- FROM STA. 17+98+/- TO STA. 21+17+/- AS WELL AS -L2- FROM STA. 10+00+/- TO STA. 11+71+/- UP TO BUT NOT INCLUDING THE FINAL LAYER OF ASPHALT PAVEMENT AS WELL AS MONOLITHIC ISLANDS.

PHASE 4

STEP 1

USING RSD 1101.02 SHEET 1 OF 14, CONSTRUCT ALL MONOLITHIC ISLANDS WITHIN THE PROJECT LIMITS.

STEP 2

USING RSD 1101.02 SHEET 1 OF 14, INSTALL FINAL LAYER OF ASPHALT ON ALL ROADWAY SURFACES WITHIN THE PROJECT LIMITS.

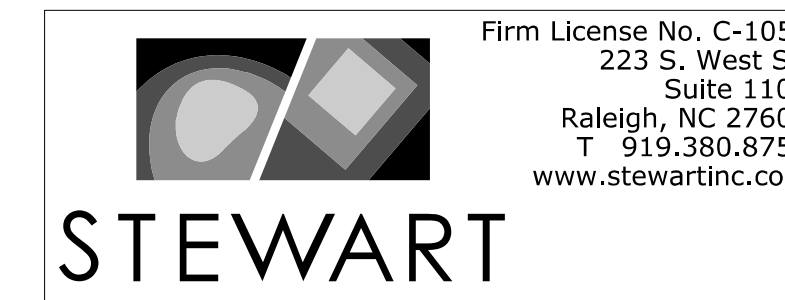
STEP 3

INSTALL FINAL PAVEMENT MARKINGS AND MARKERS IN ACCORDANCE WITH THE FINAL PAVEMENT MARKING PLAN.

STEP 4

REMOVE ANY REMAINING WORK ZONE TRAFFIC CONTROL DEVICES FROM THE PROJECT LIMITS.

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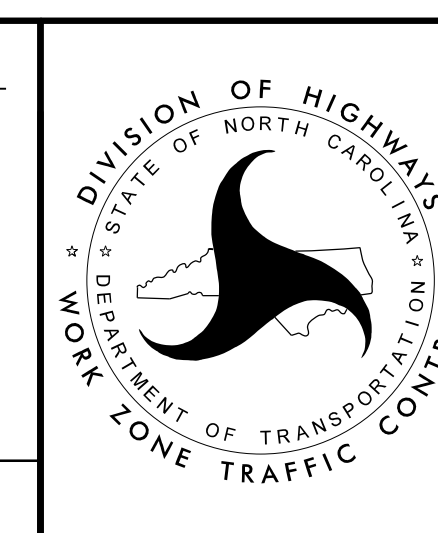


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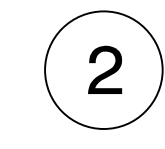
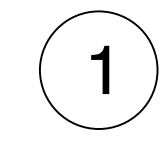
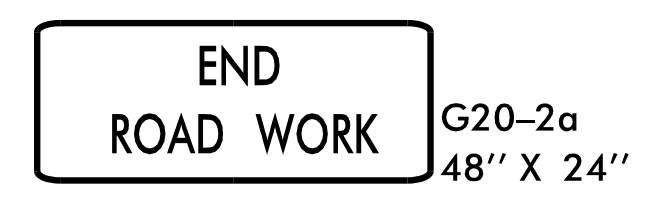
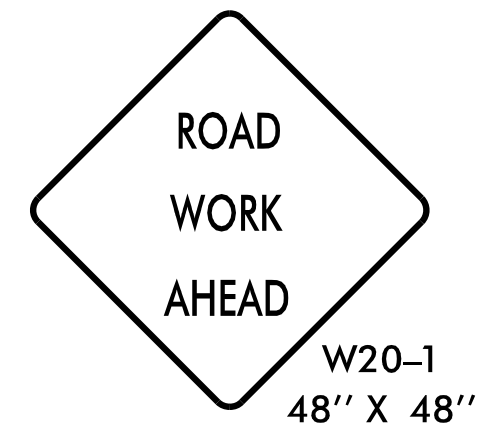
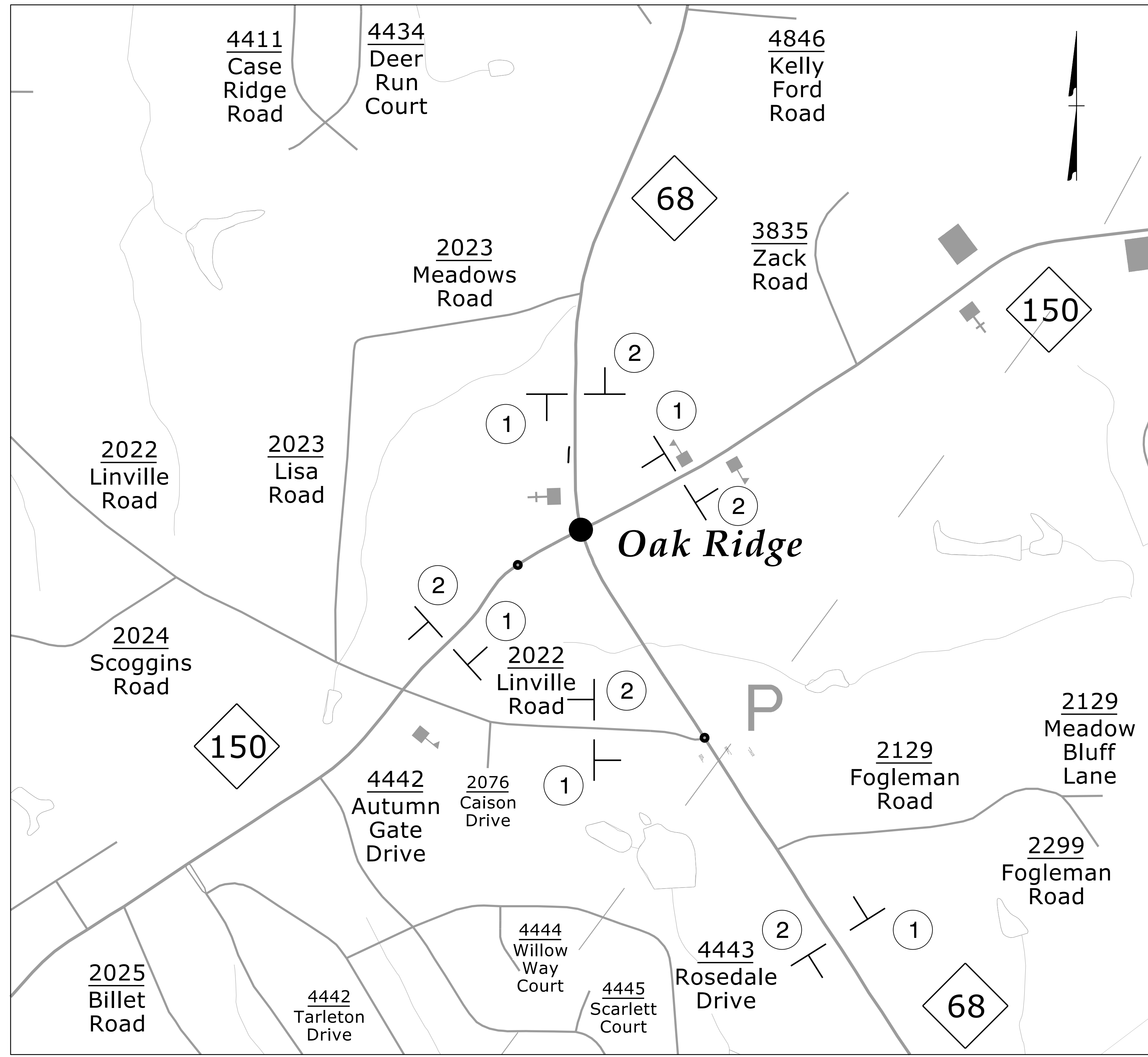
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TEMPORARY TRAFFIC
CONTROL PHASING

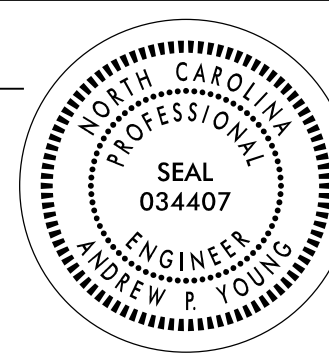
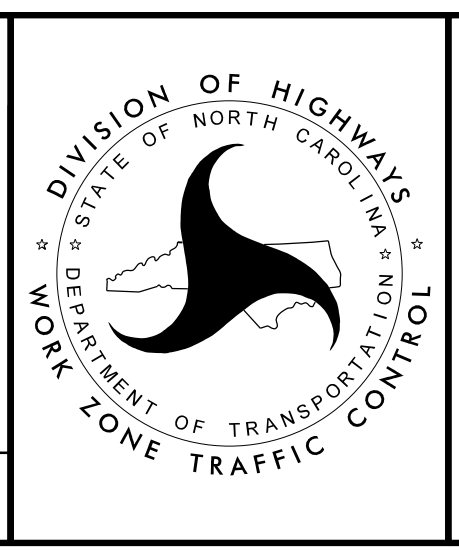


ALL ADVANCE WARNING SIGNS SHALL BE PLACED 500' FROM THE PROJECT LIMITS ESTABLISHED IN THE ROADWAY PLANS. REFERENCE ROADWAY STANDARD DRAWING 1101.01 SHEET 3 OF 3 FOR FURTHER INFORMATION.

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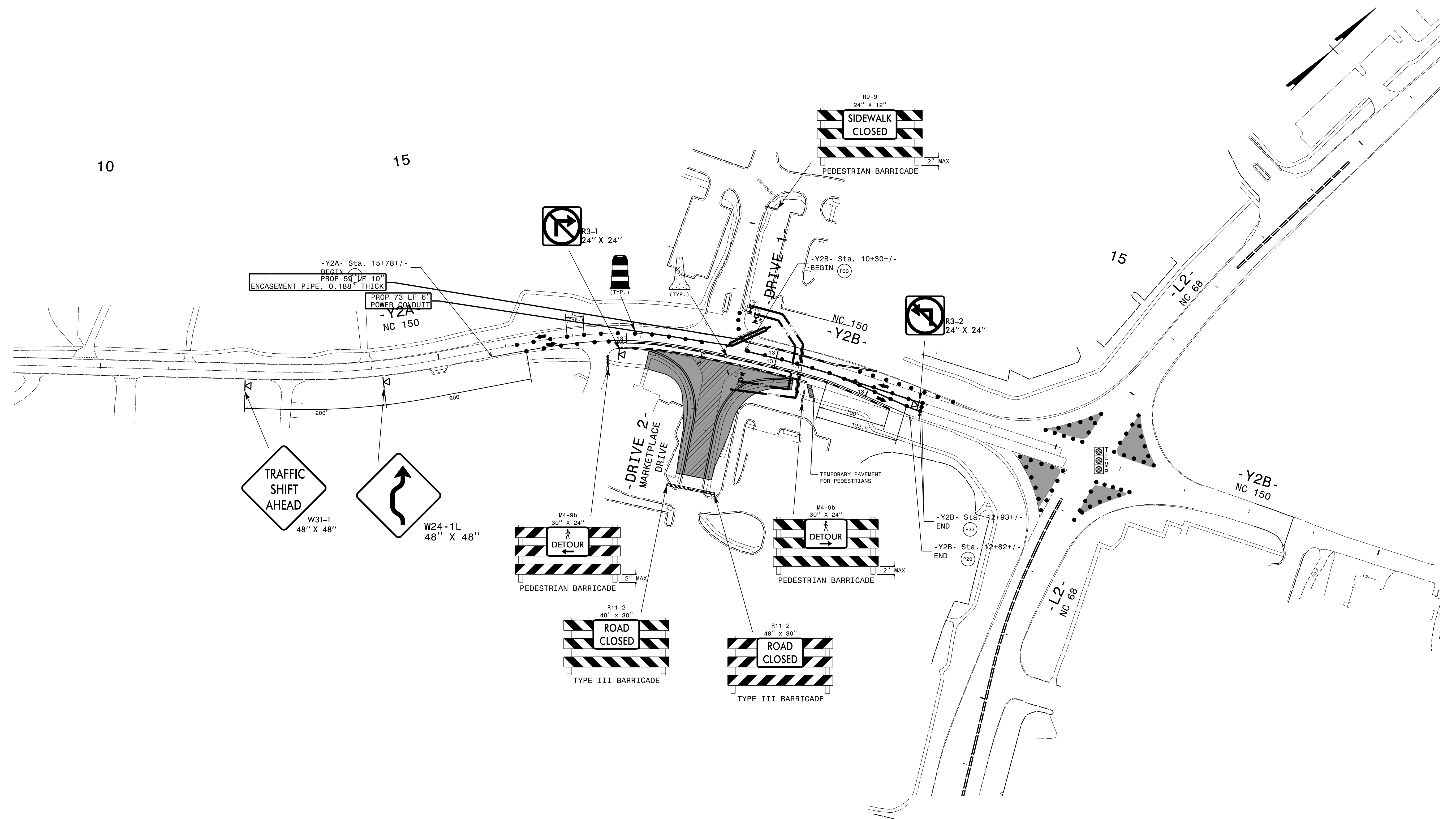

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PHASE 1
 STEP 1
 DETAIL

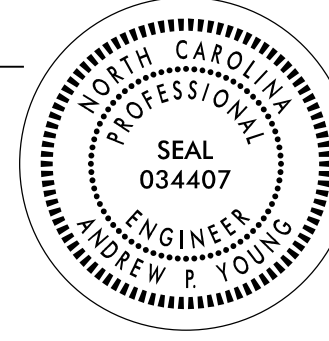
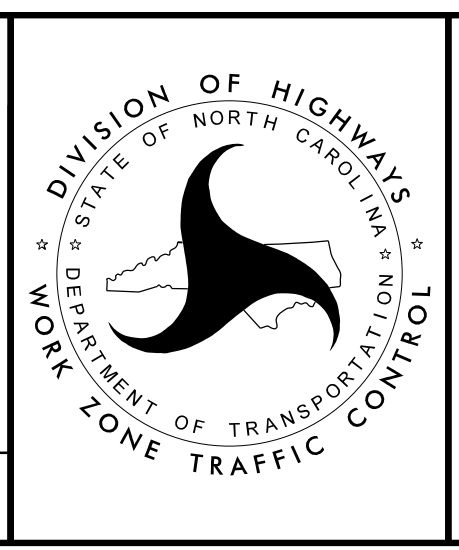
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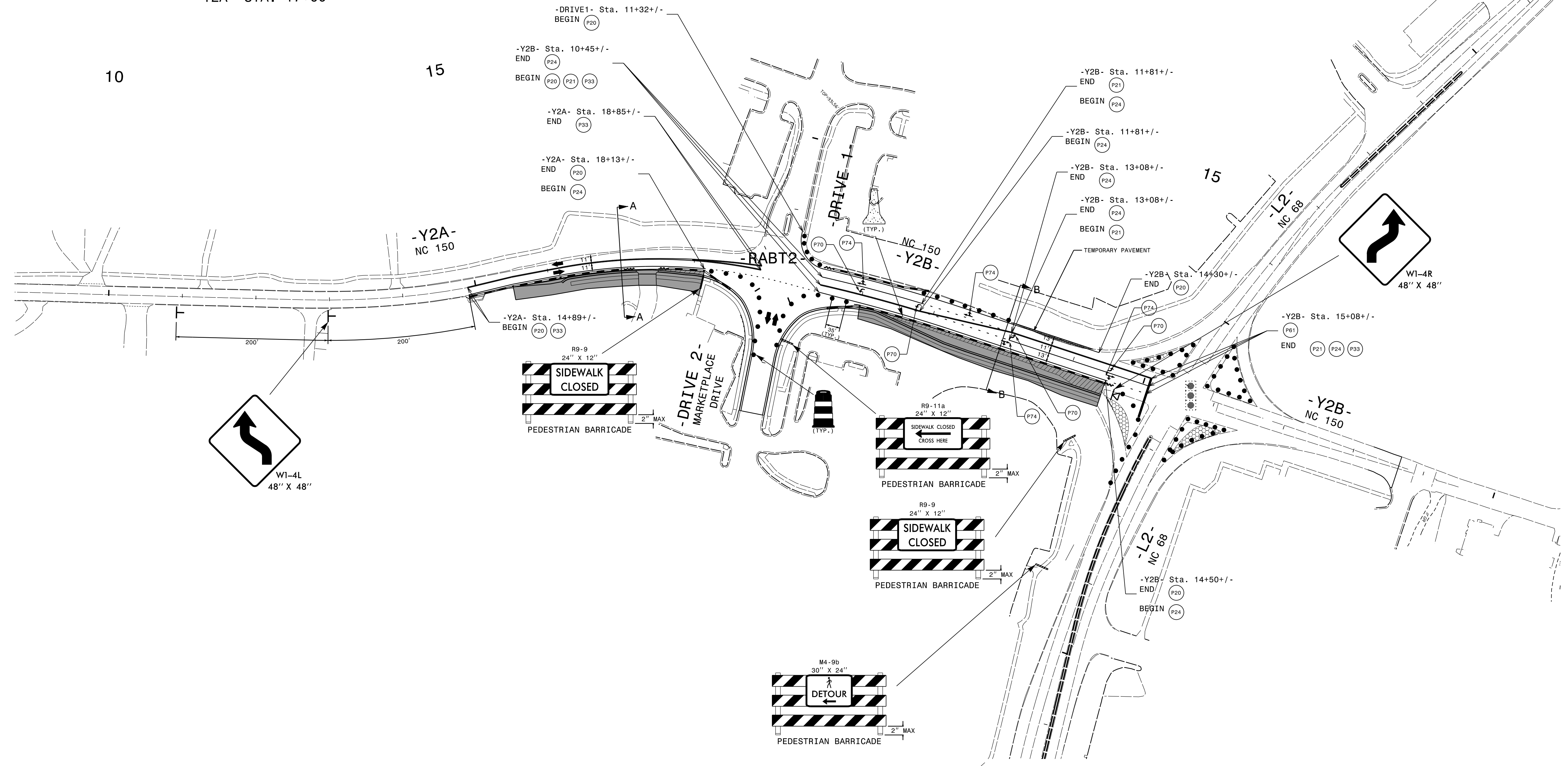
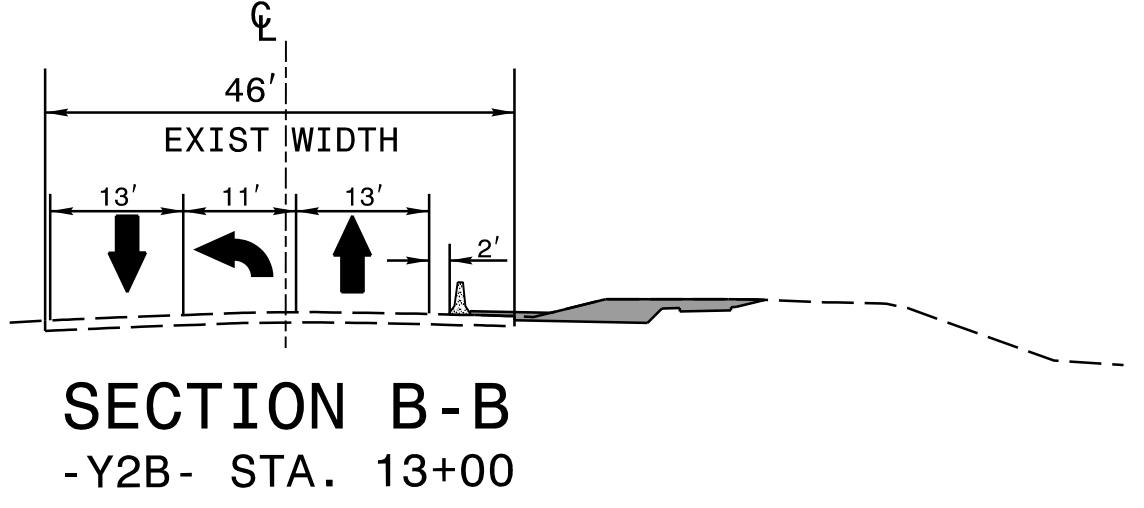
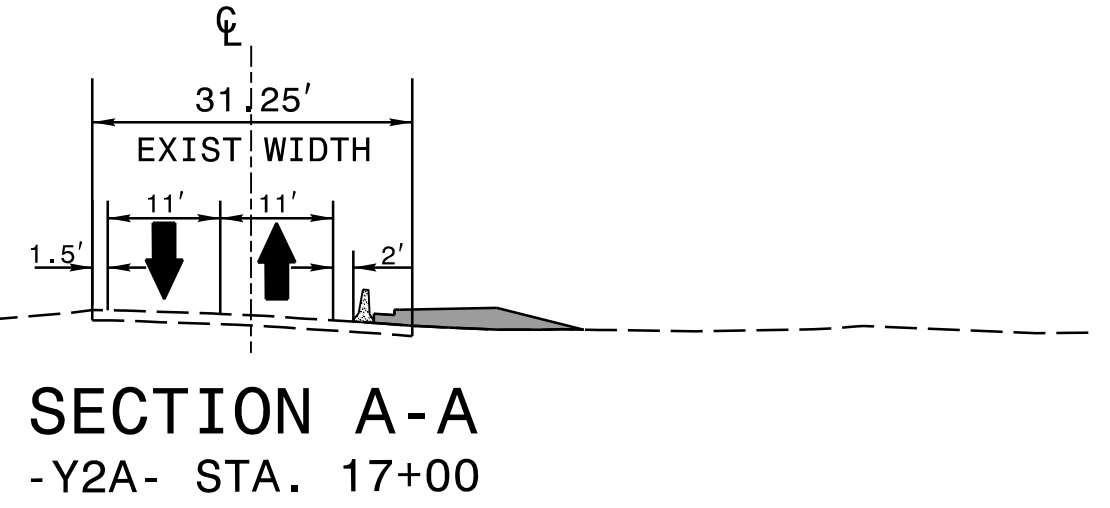

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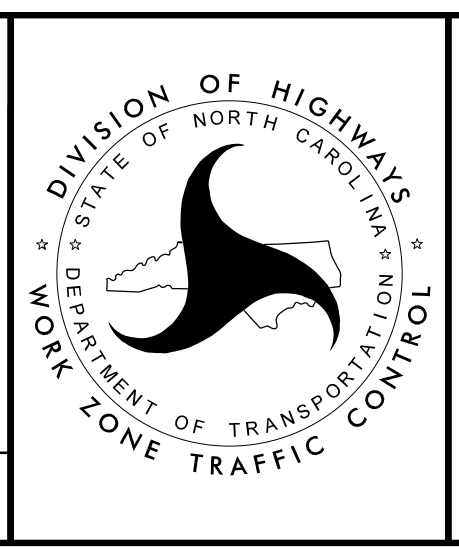
PHASE 1
 STEP 2
 DETAIL

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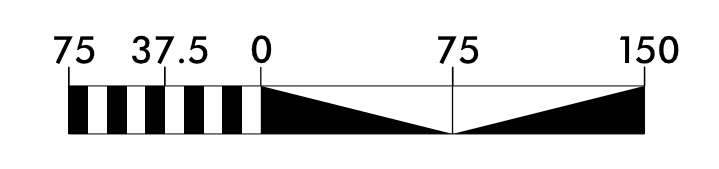
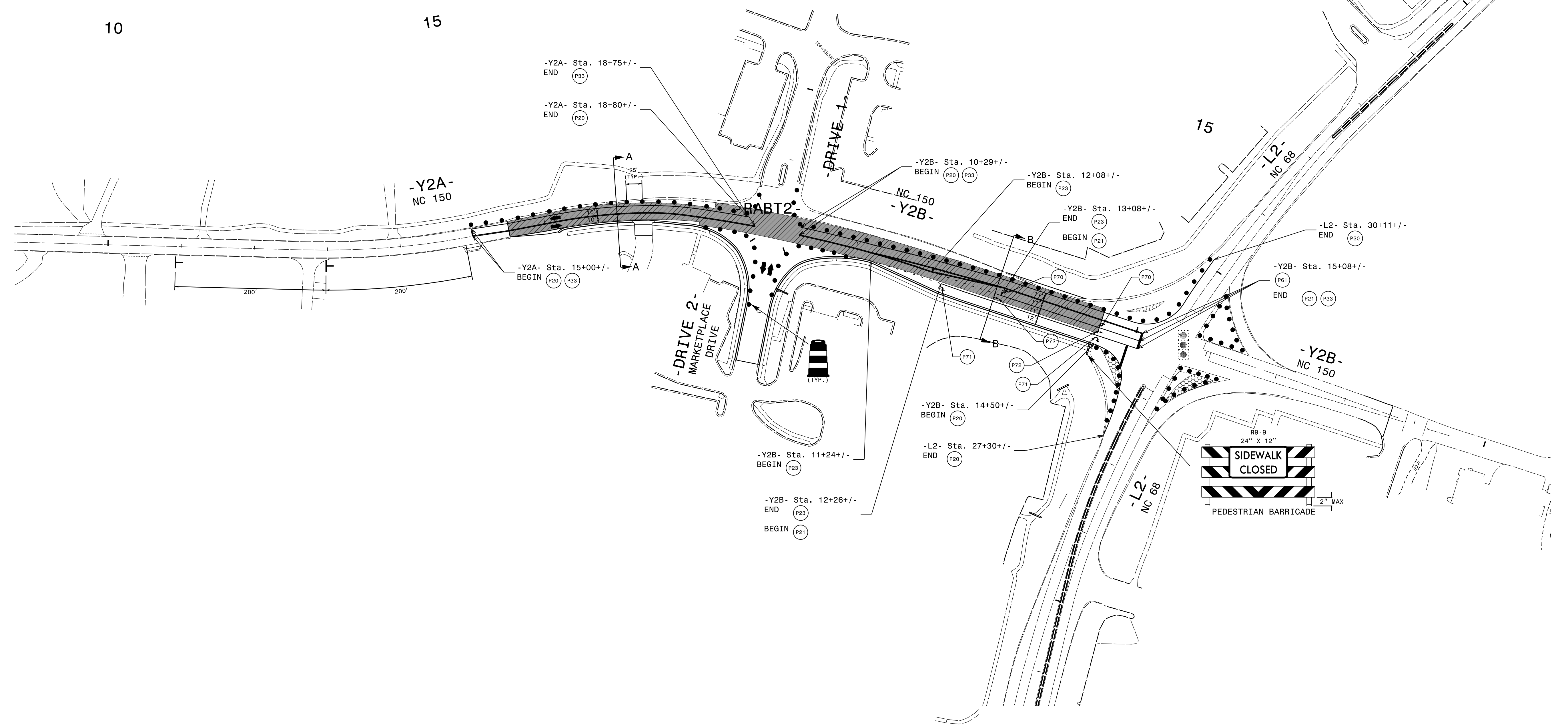
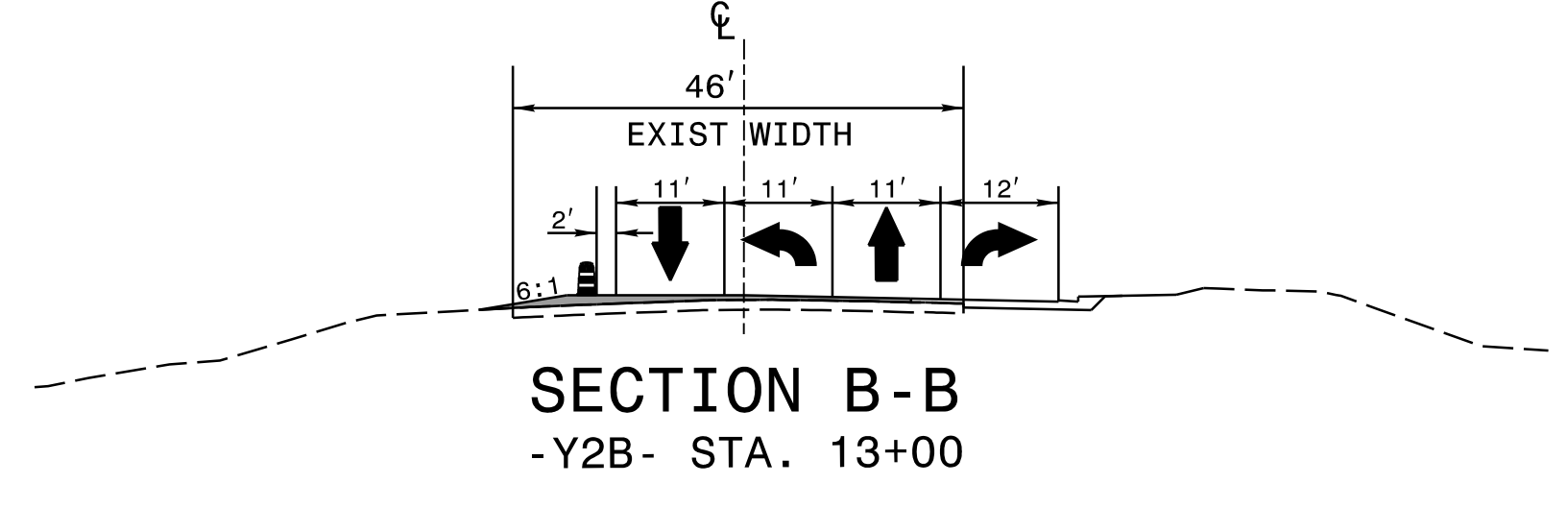
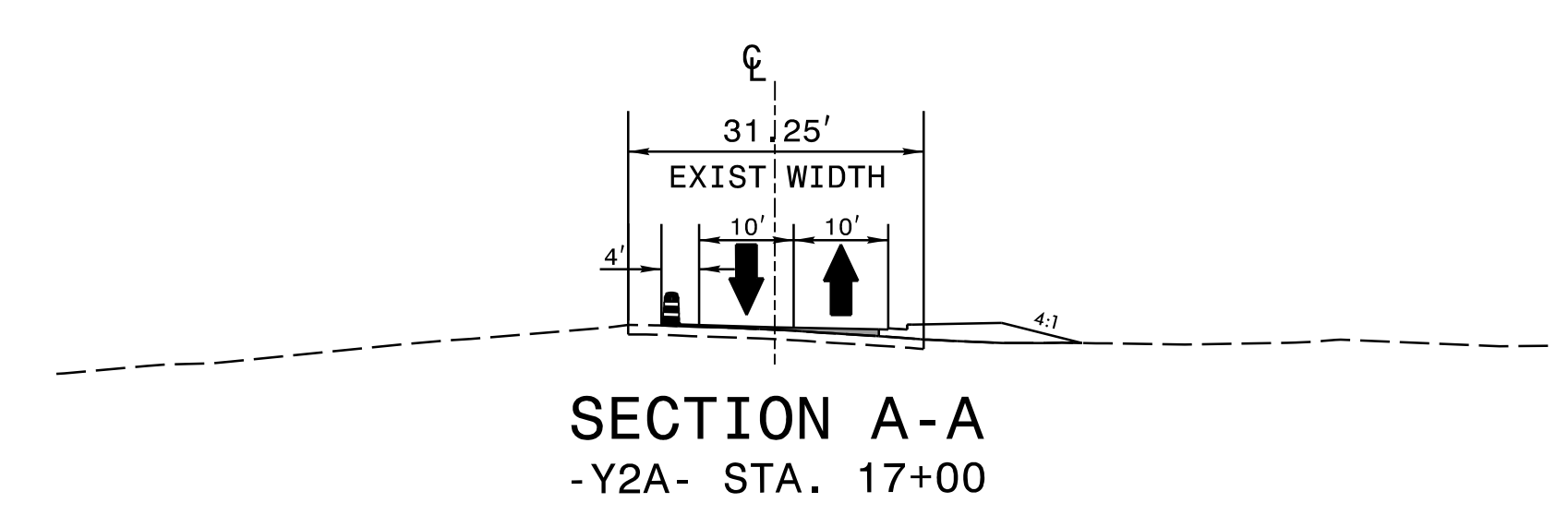
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PHASE 1
 STEP 3
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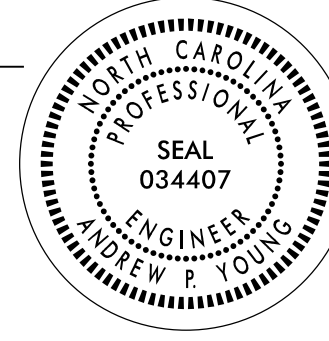
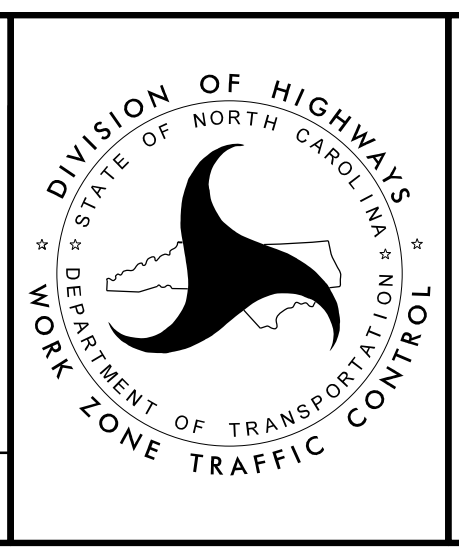
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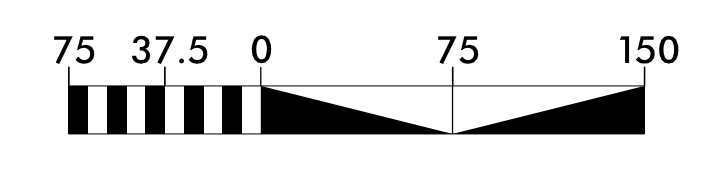
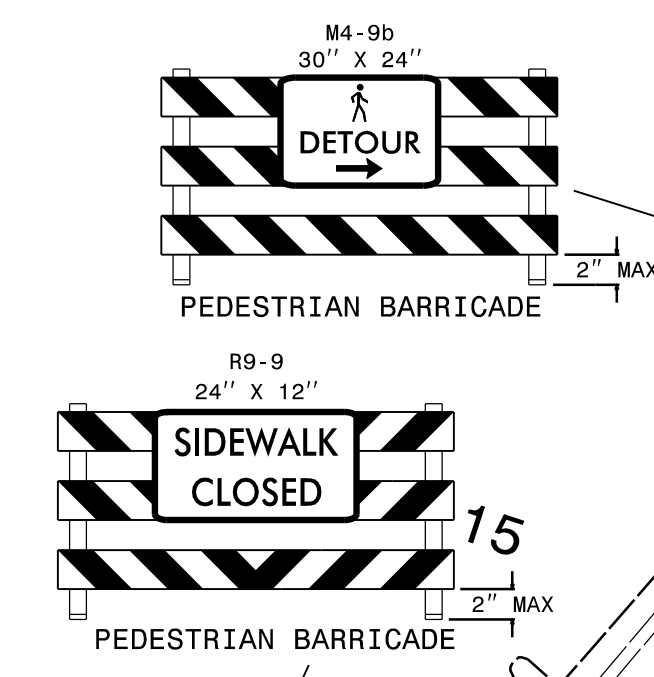
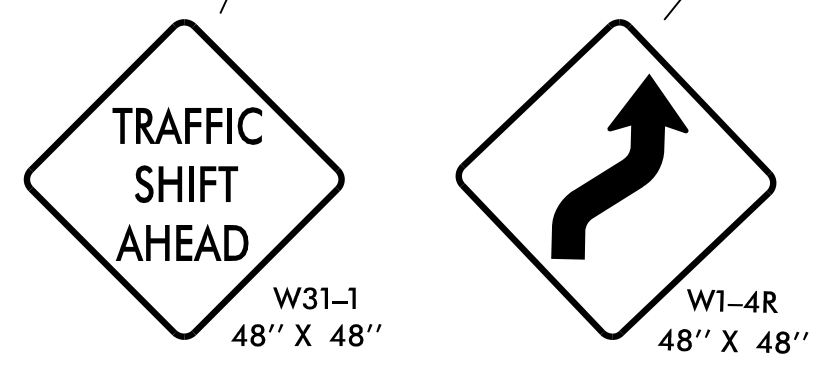
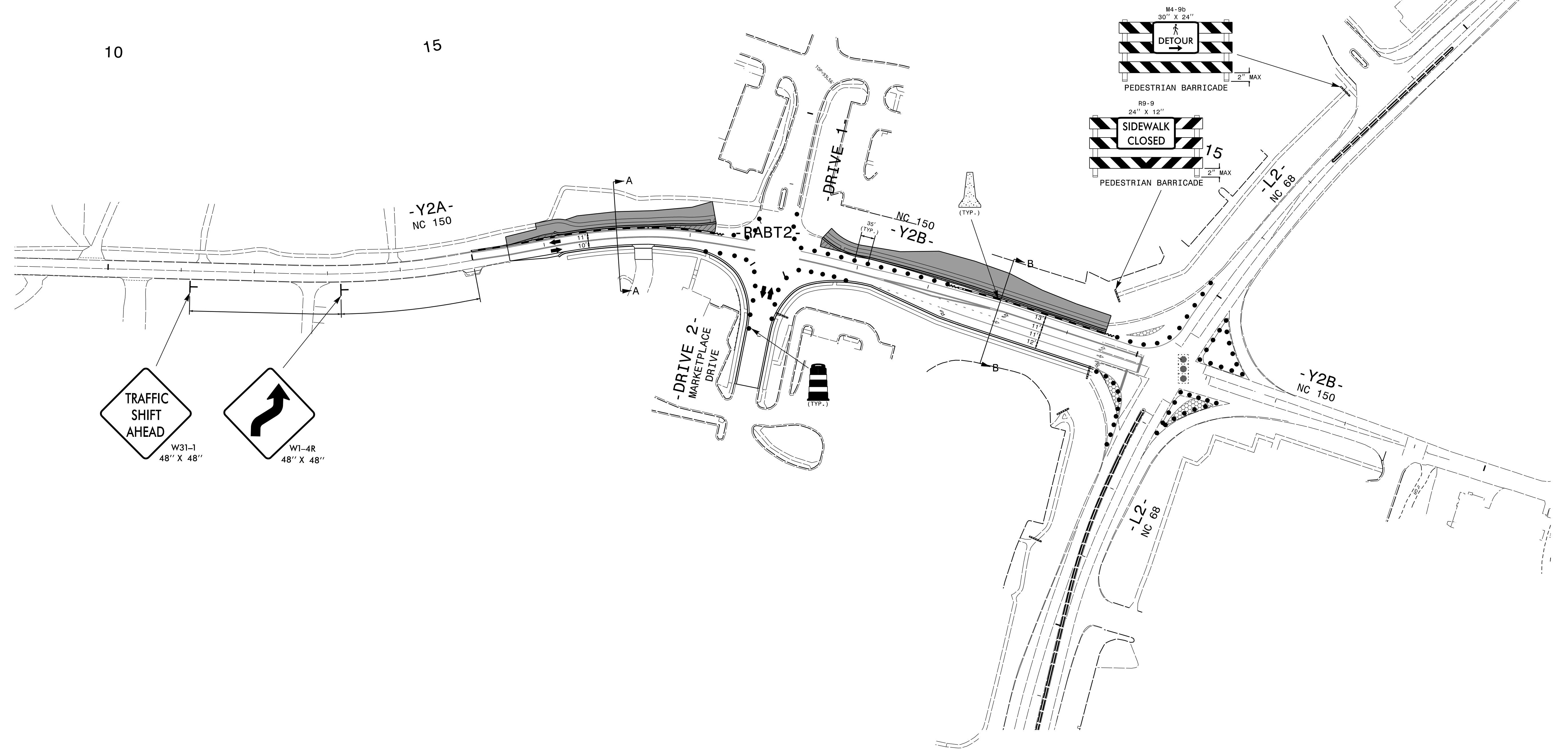
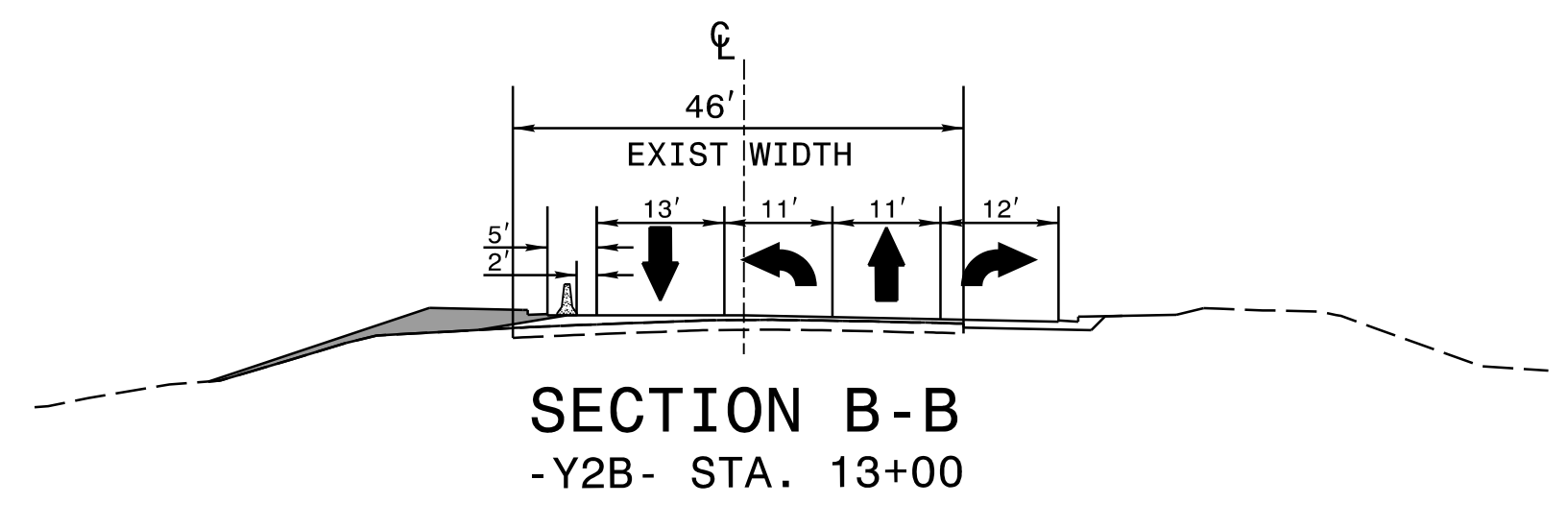
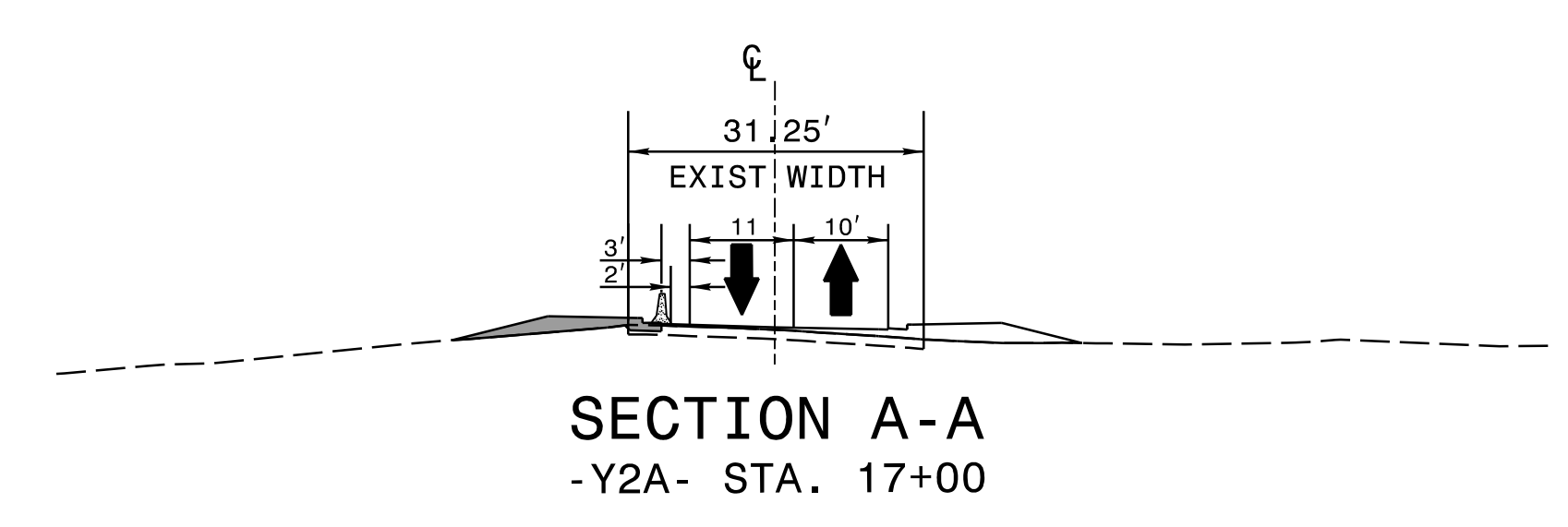

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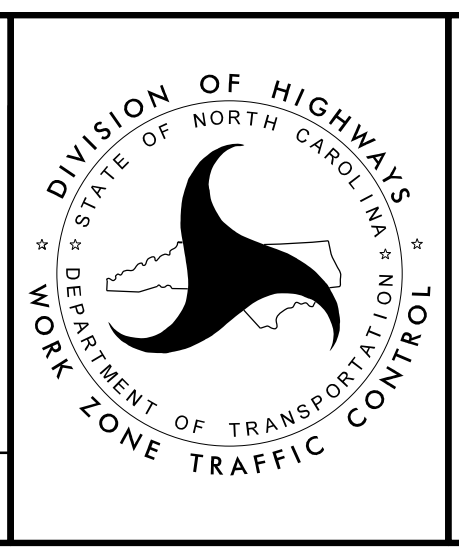
PHASE 1
 STEP 4
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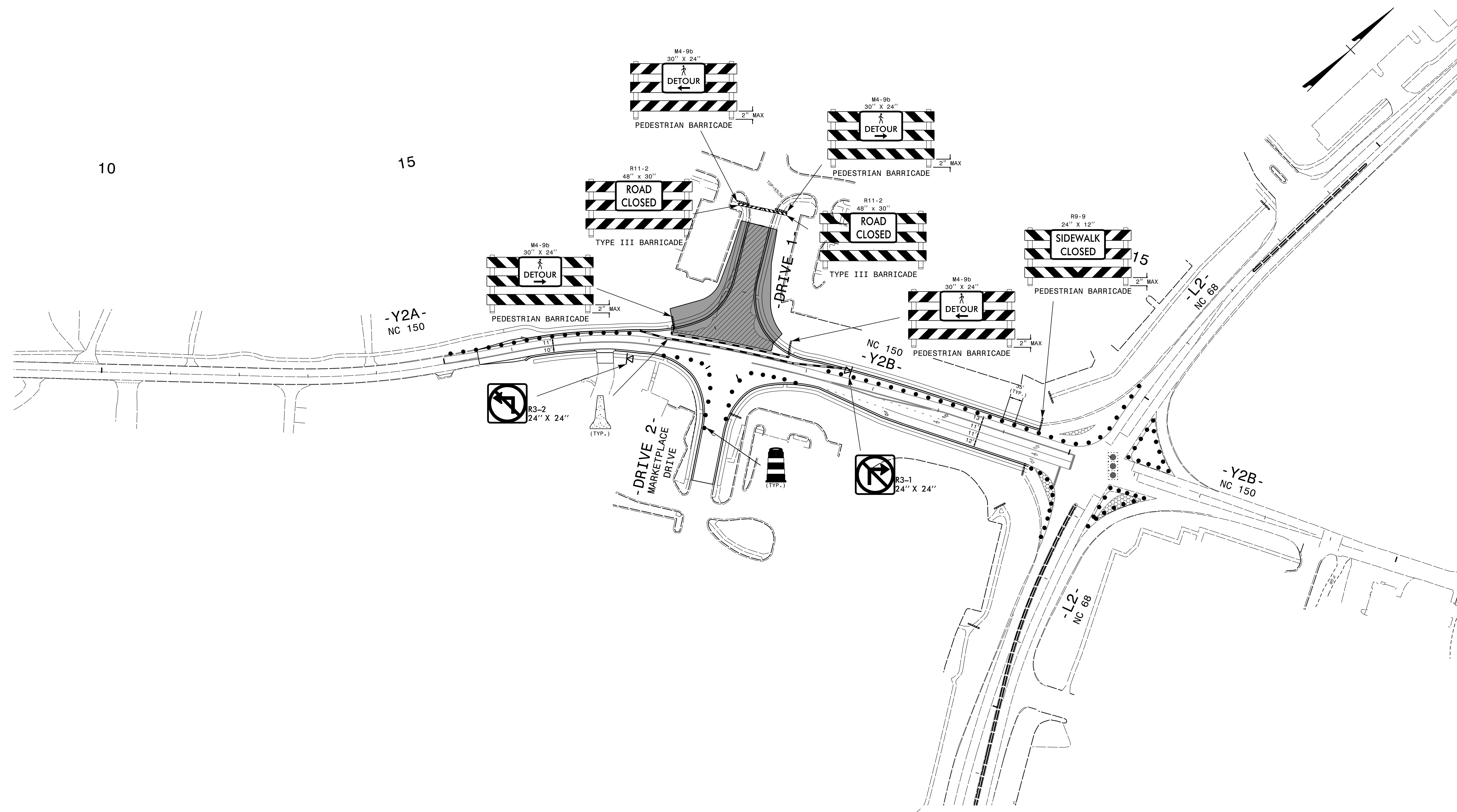
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**PHASE 1
 STEP 5
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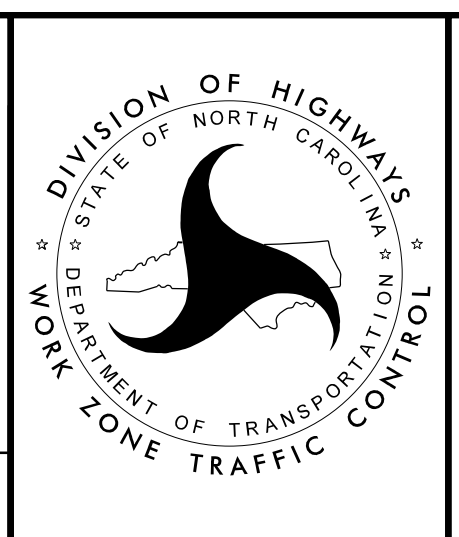
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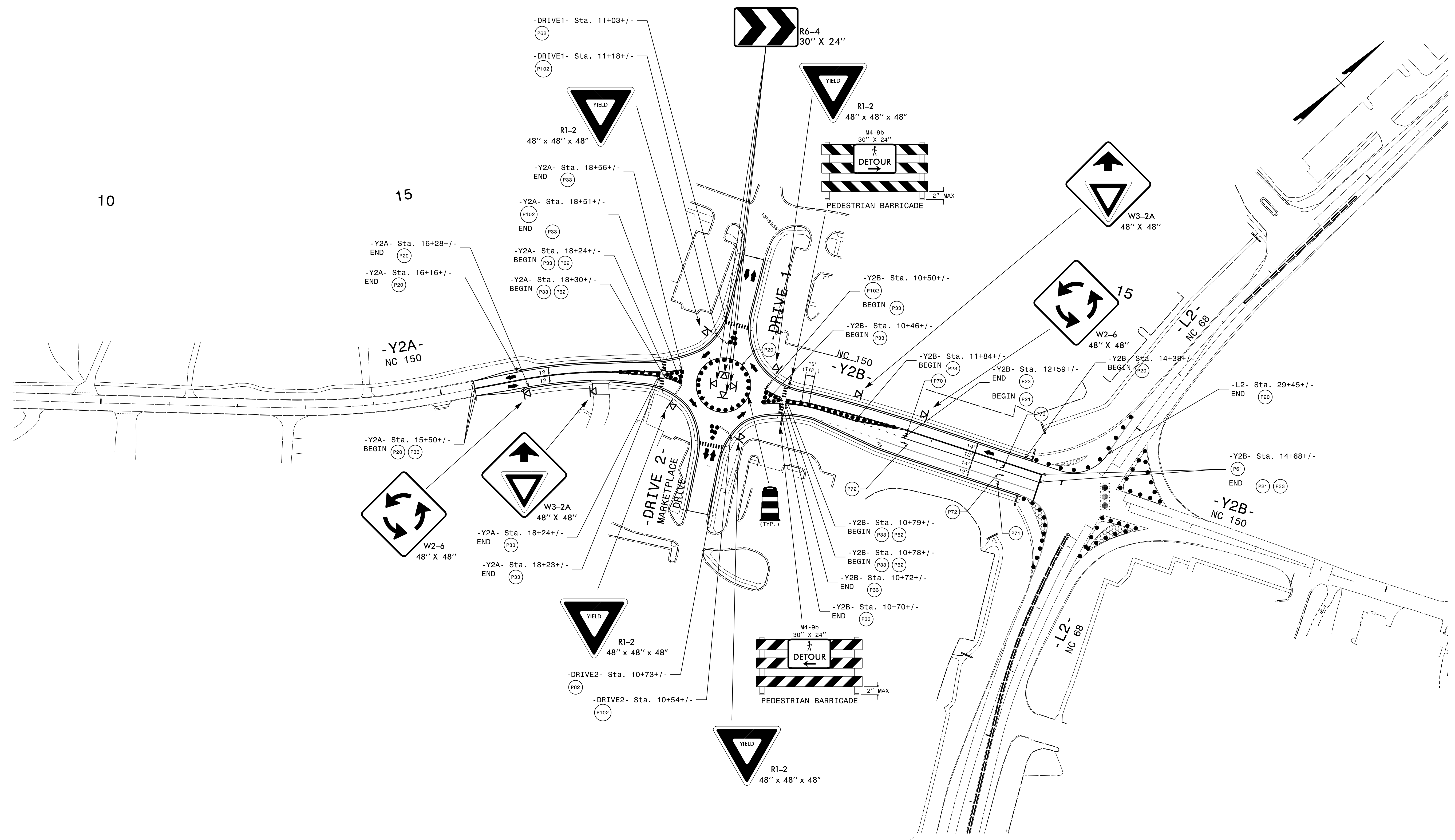
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DIVISION OF HIGHWAYS
 STATE OF NORTH CAROLINA
 DEPARTMENT OF TRANSPORTATION
 WORK ZONE TRAFFIC CONTROL

**PHASE 1
 STEP 6
 DETAIL**

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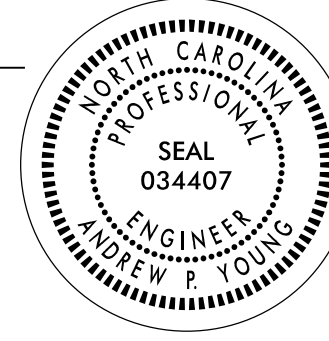
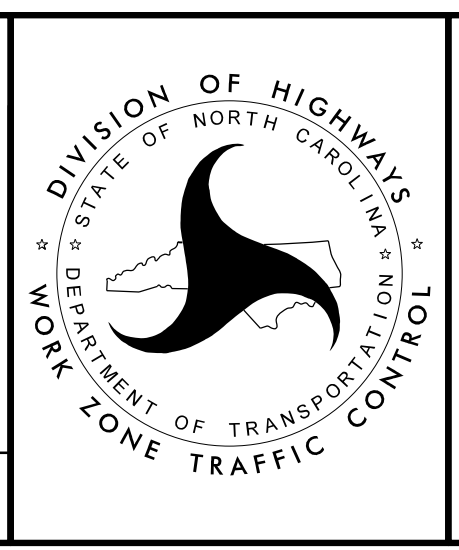
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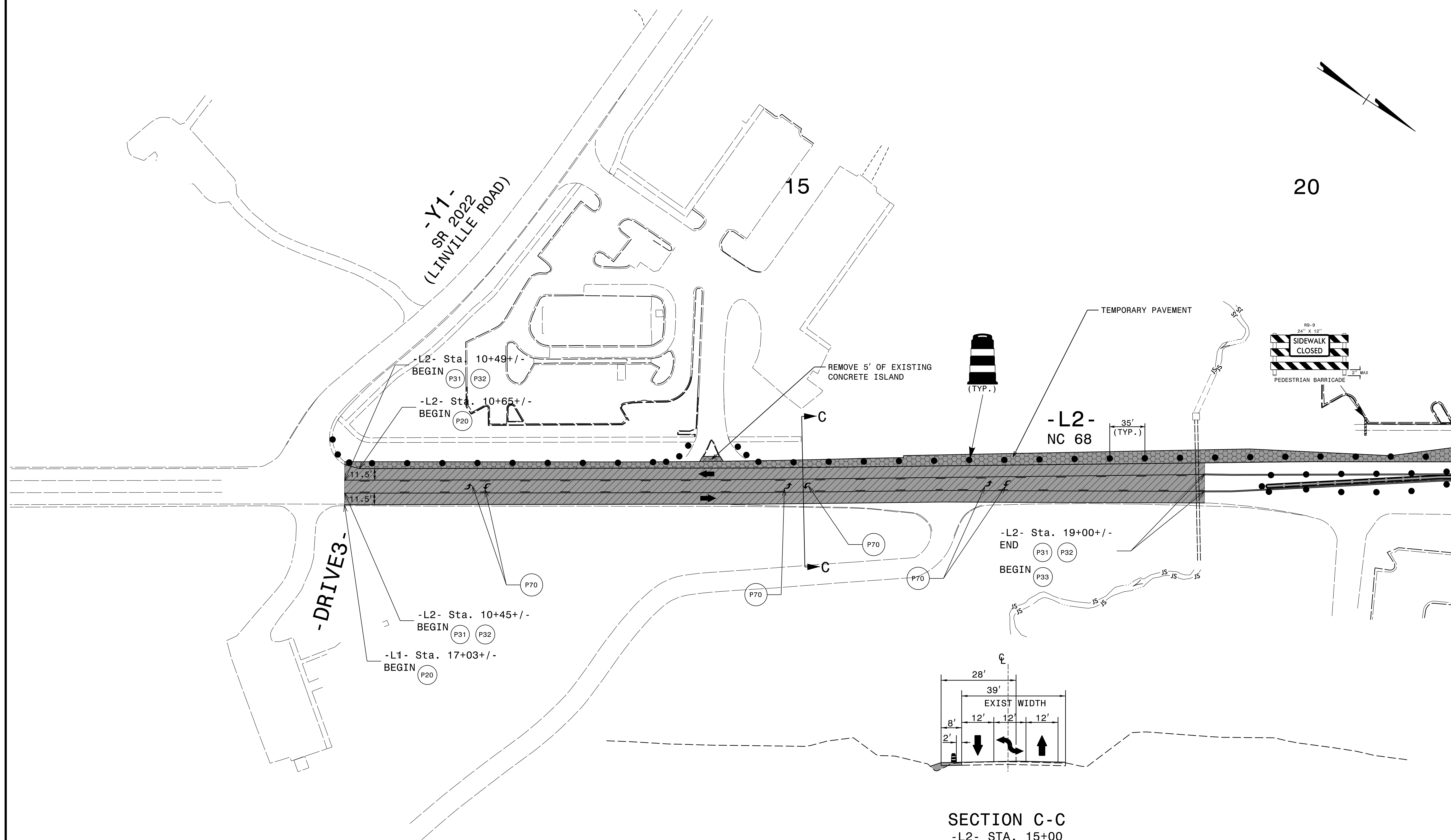

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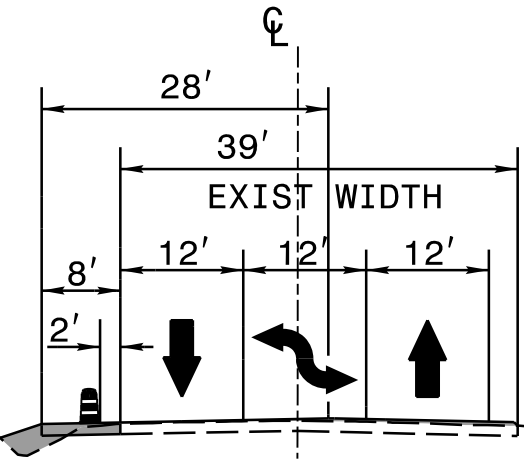
PHASE 1
 STEP 7
 DETAIL

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MATCHLINE STA. 21+50.00 - L2- SEE SHEET TMP-12

SECTION C-C
-L2- STA. 15+00



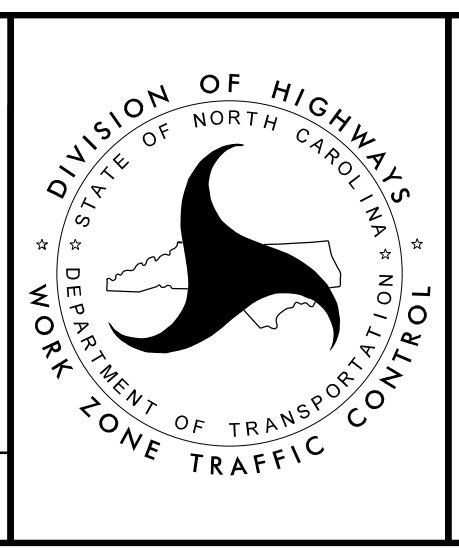
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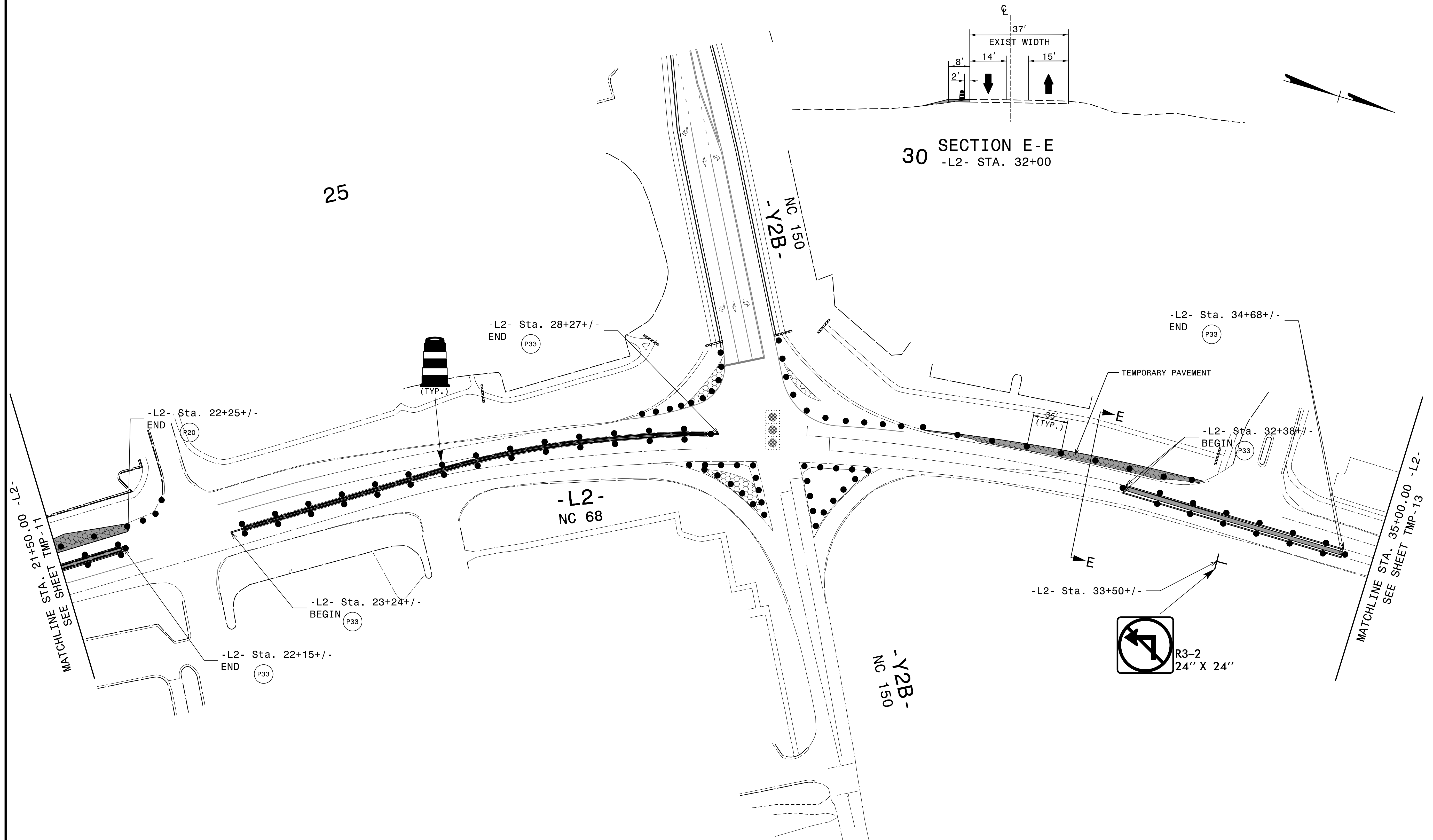
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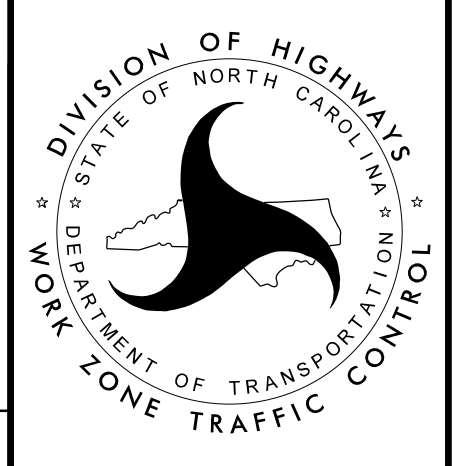
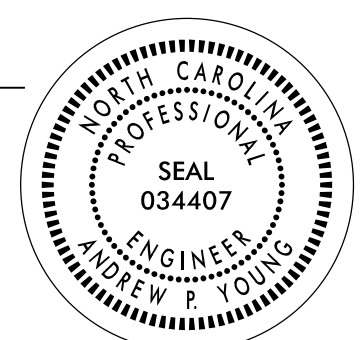
**PHASE 2
STEP 1 & STEP 2
DETAIL**



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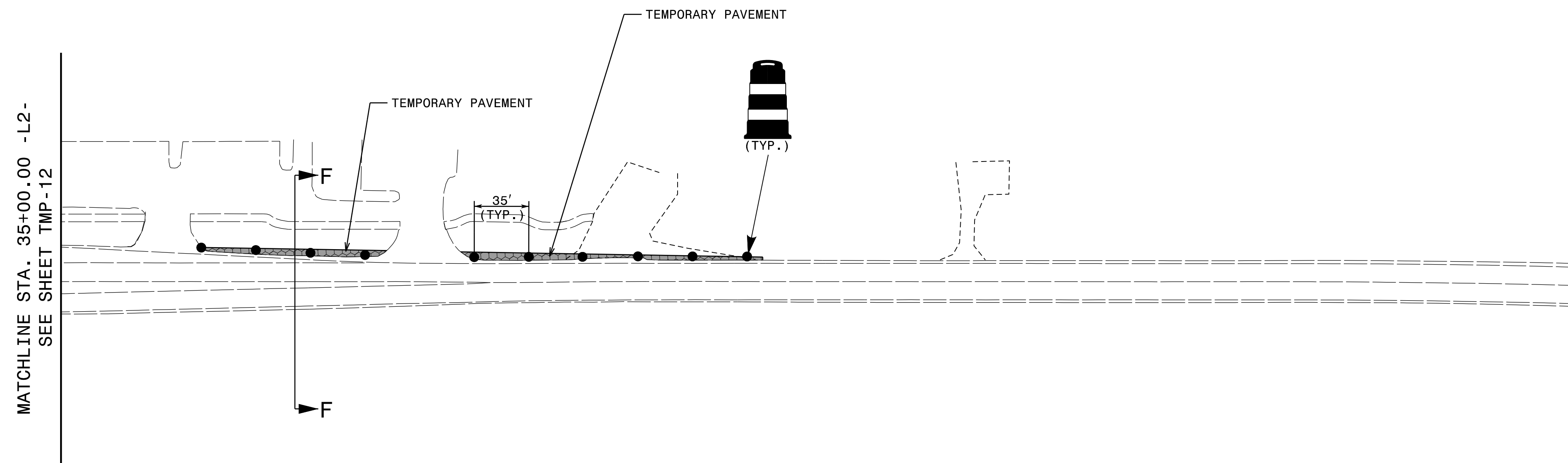
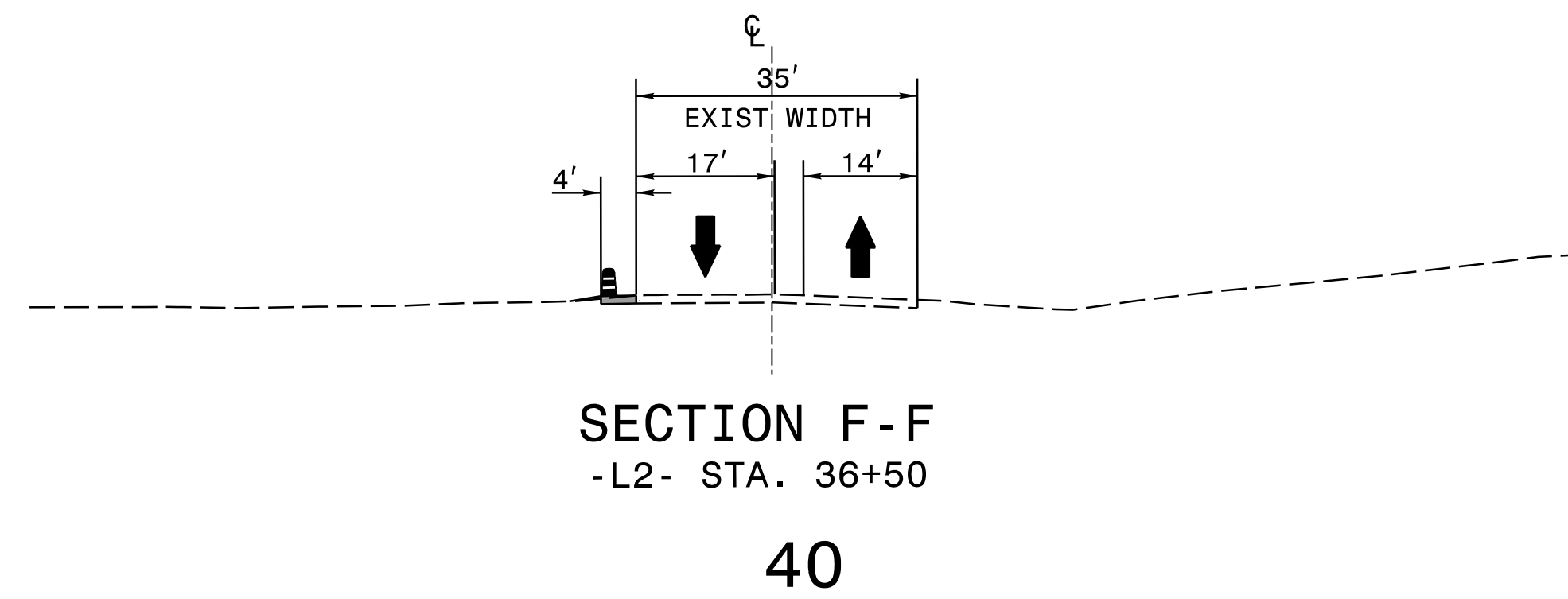

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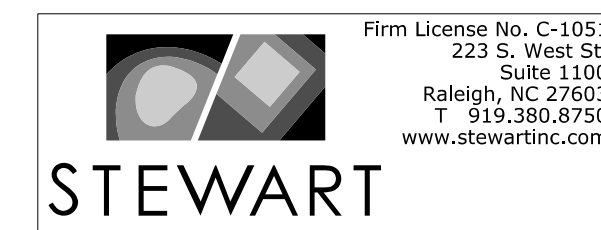


PHASE 2
STEP 1 & STEP 2
DETAIL

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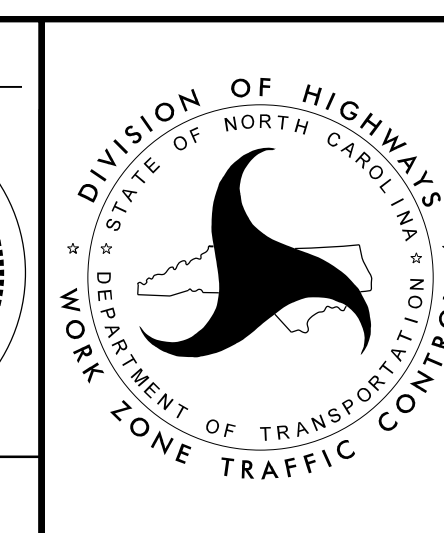
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 USER:zmckenzie



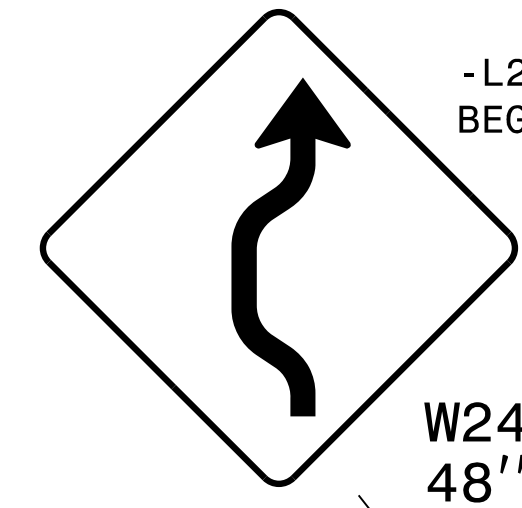
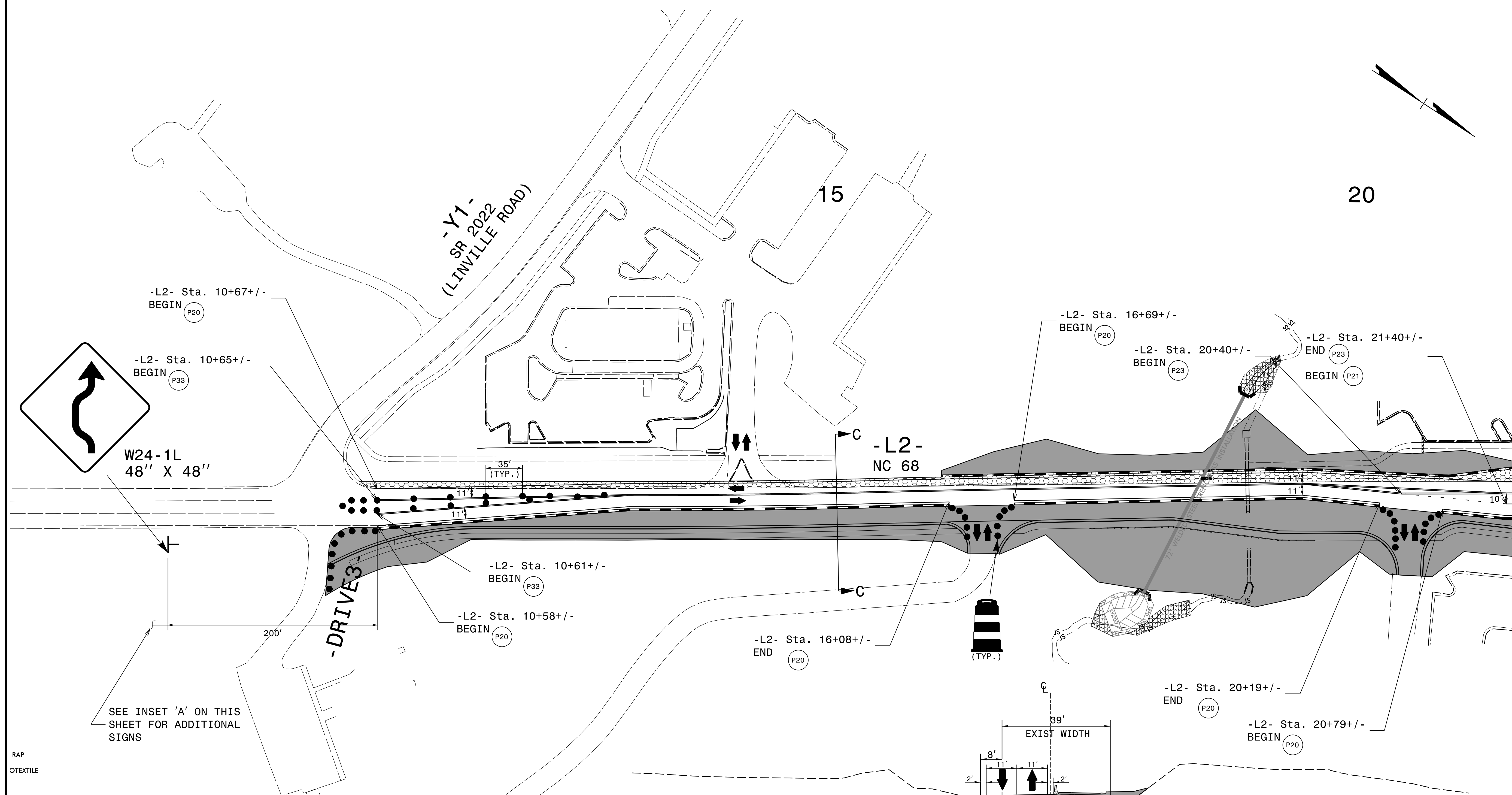
APPROVED: *Andrew P. Young*
EF210630002F4EF...
 DATE: 5/3/2023

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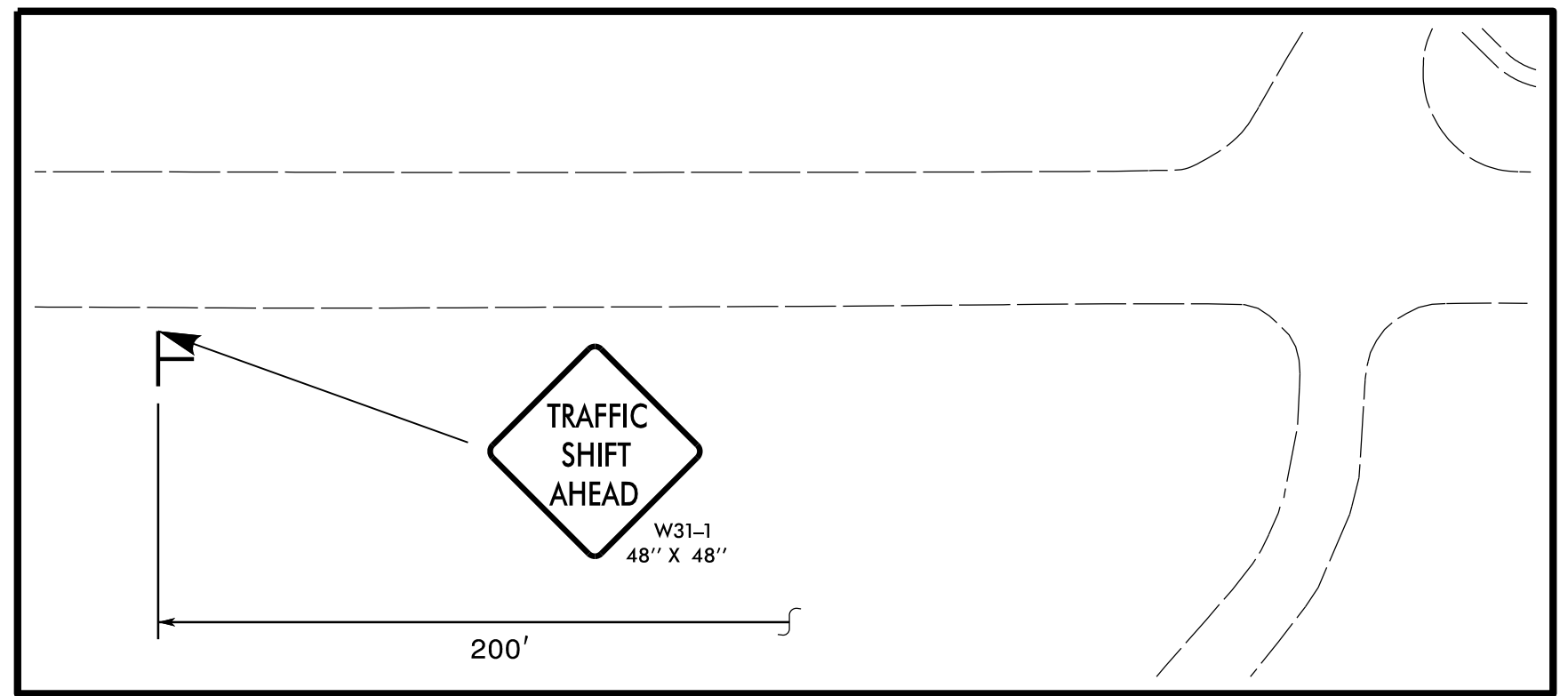
**PHASE 2
 STEP 1 & 2
 DETAIL**



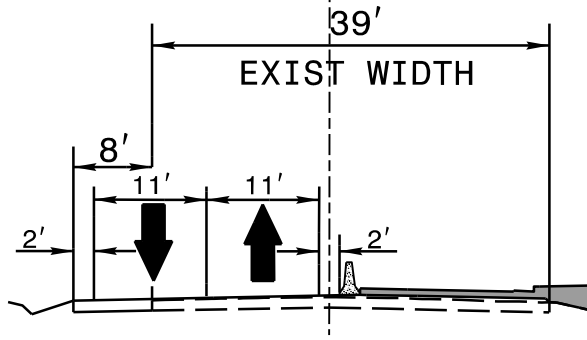
W24-1L
48" X 48"

SEE INSET 'A' ON THIS SHEET FOR ADDITIONAL SIGNS

INSET 'A'



SECTION C-C
-L2- STA. 15+00



MATCHLINE STA. 21+50.00 -L2-
SEE SHEET TMP-15

5/3/2023
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USER:zmckenzie

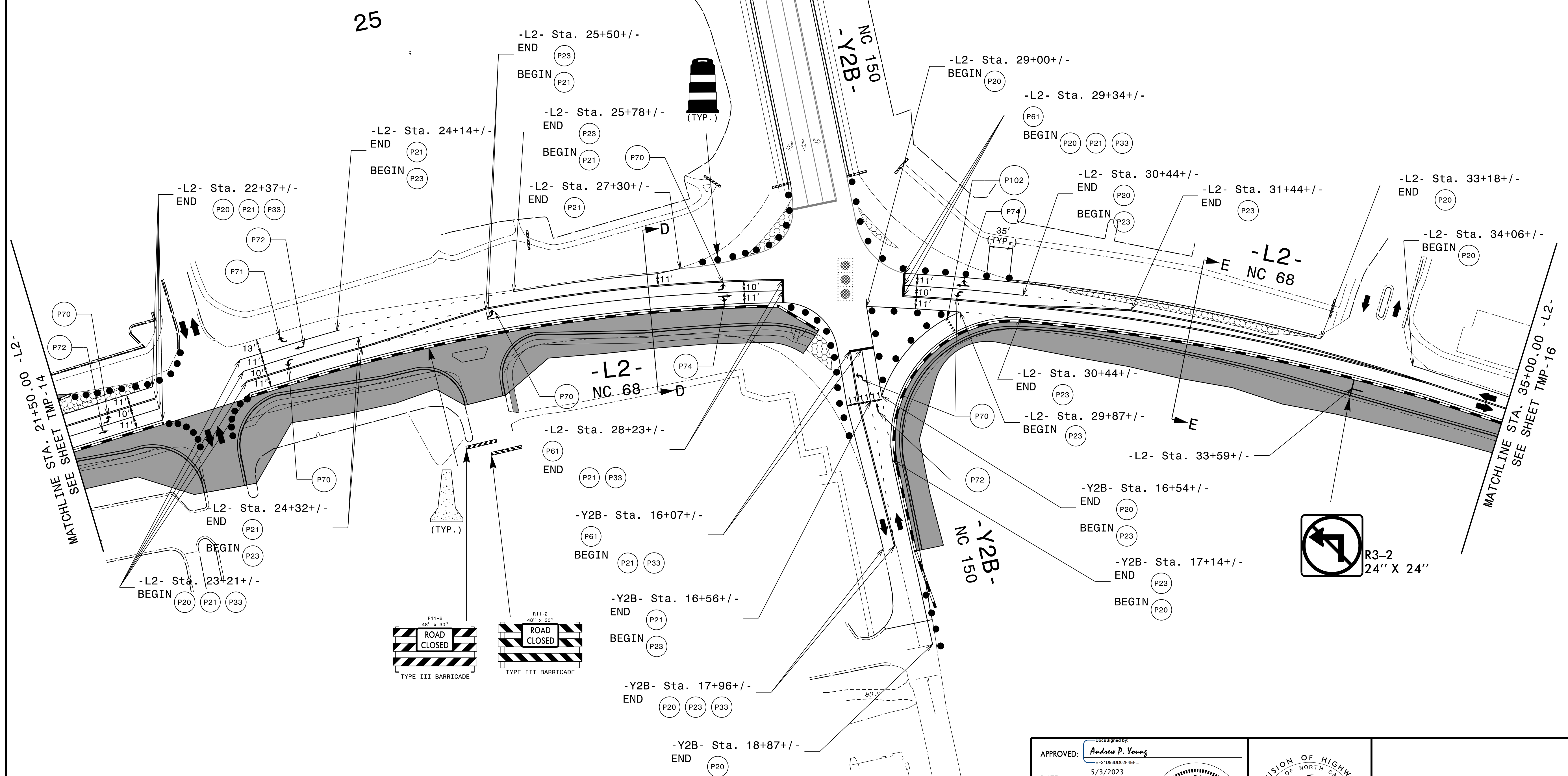
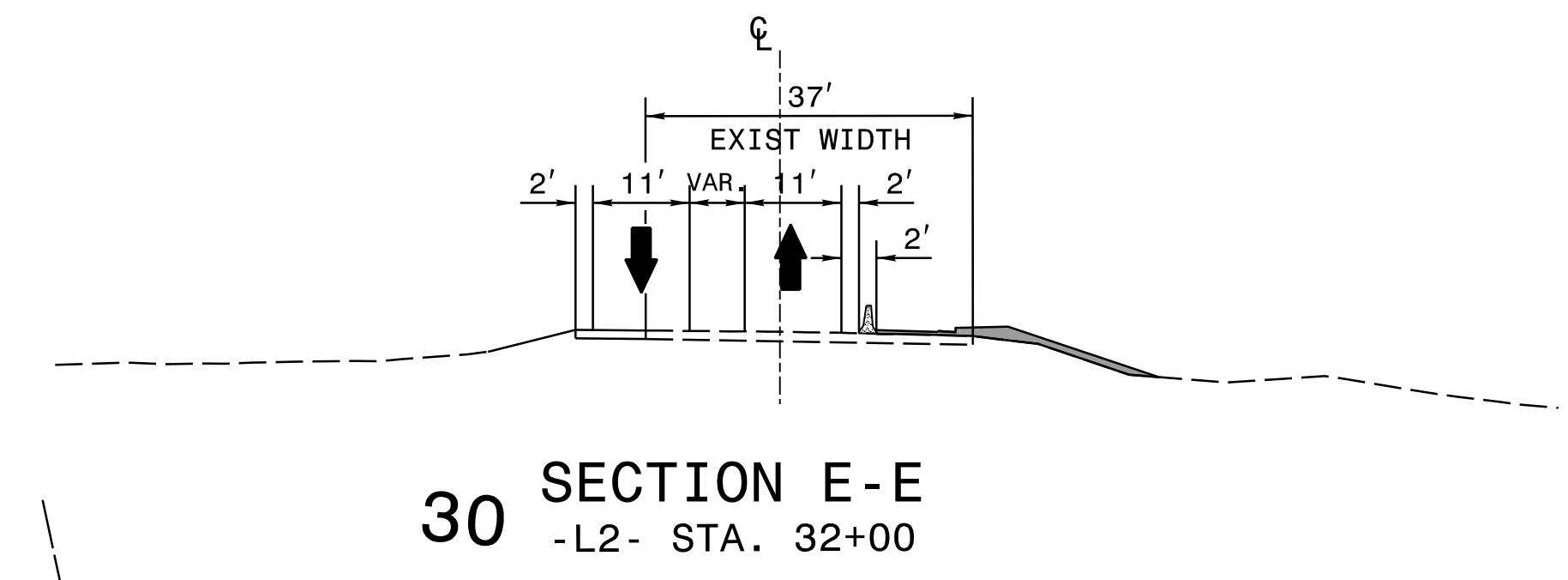
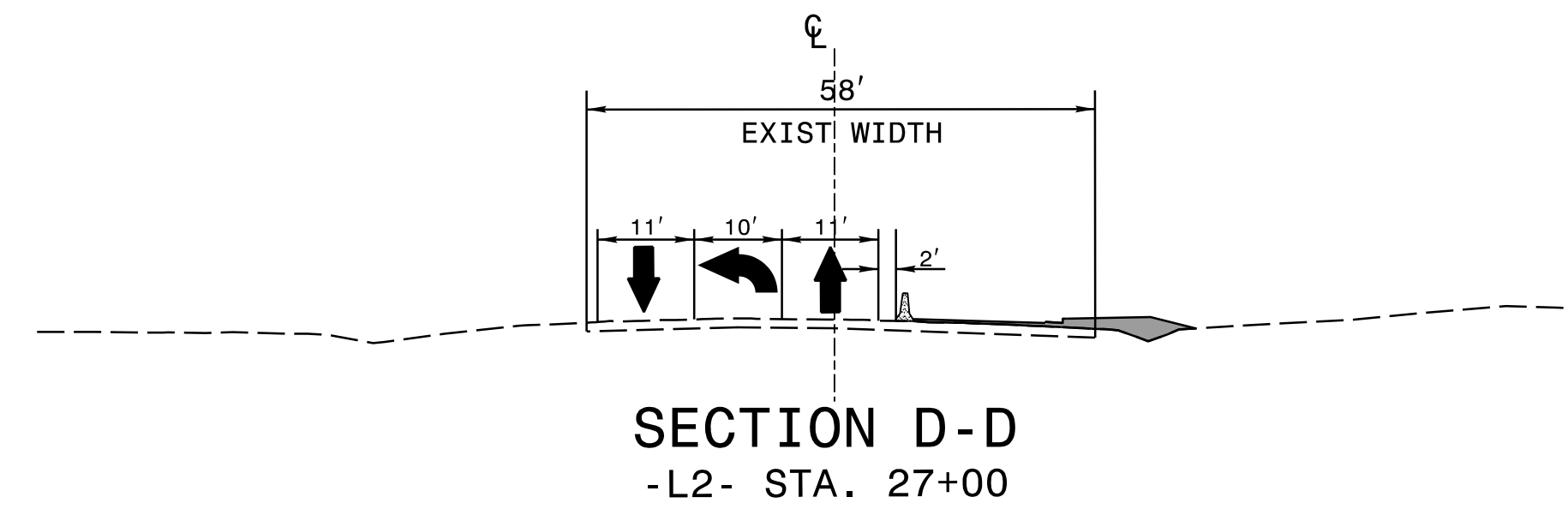
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EF2100300204EF
DATE: 5/3/2023

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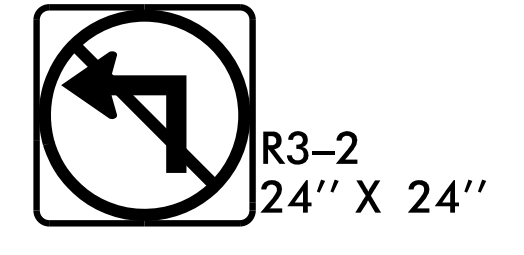
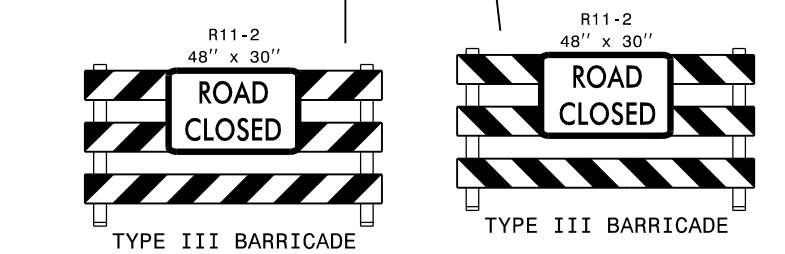
PHASE 2
STEP 3
DETAIL

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MATCHLINE STA. 21+50.00 -L2- SEE SHEET TMP-14

MATCHLINE STA. 35+00.00 -L2- SEE SHEET TMP-16

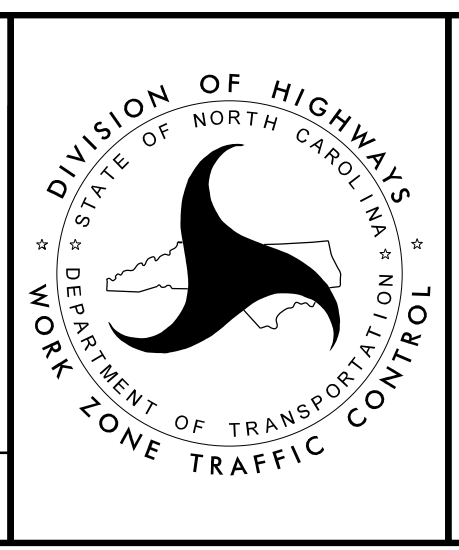


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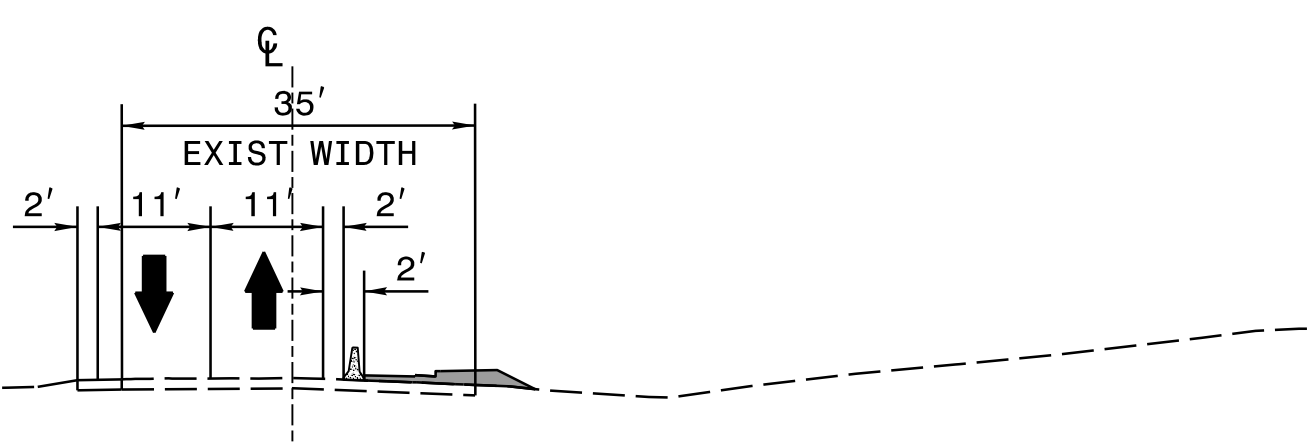
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 DATE: 5/3/2023

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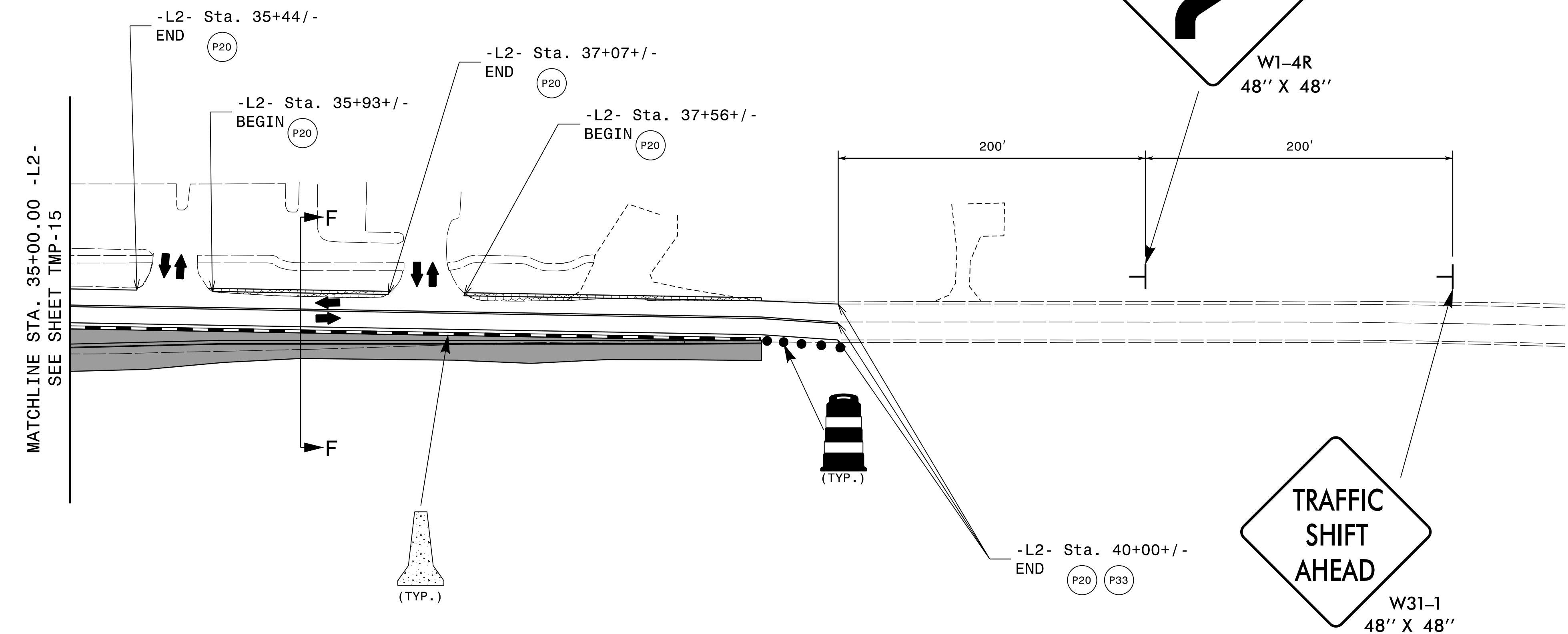
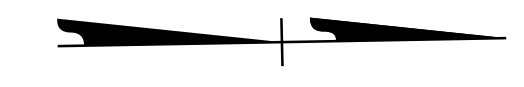
PHASE 2
 STEP 3
 DETAIL

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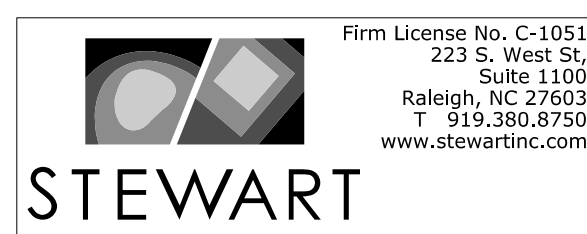


SECTION F-F
-L2- STA. 36+50

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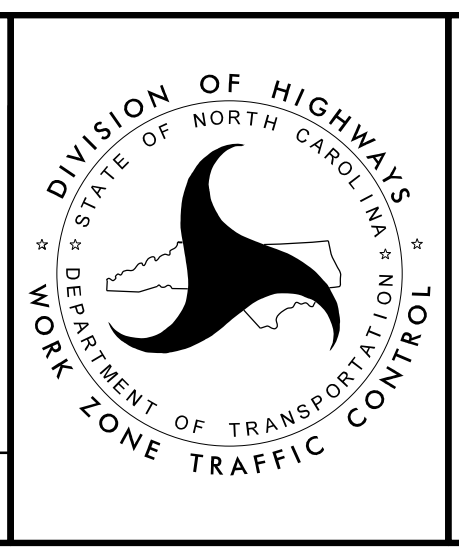
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USER:zmckenzie



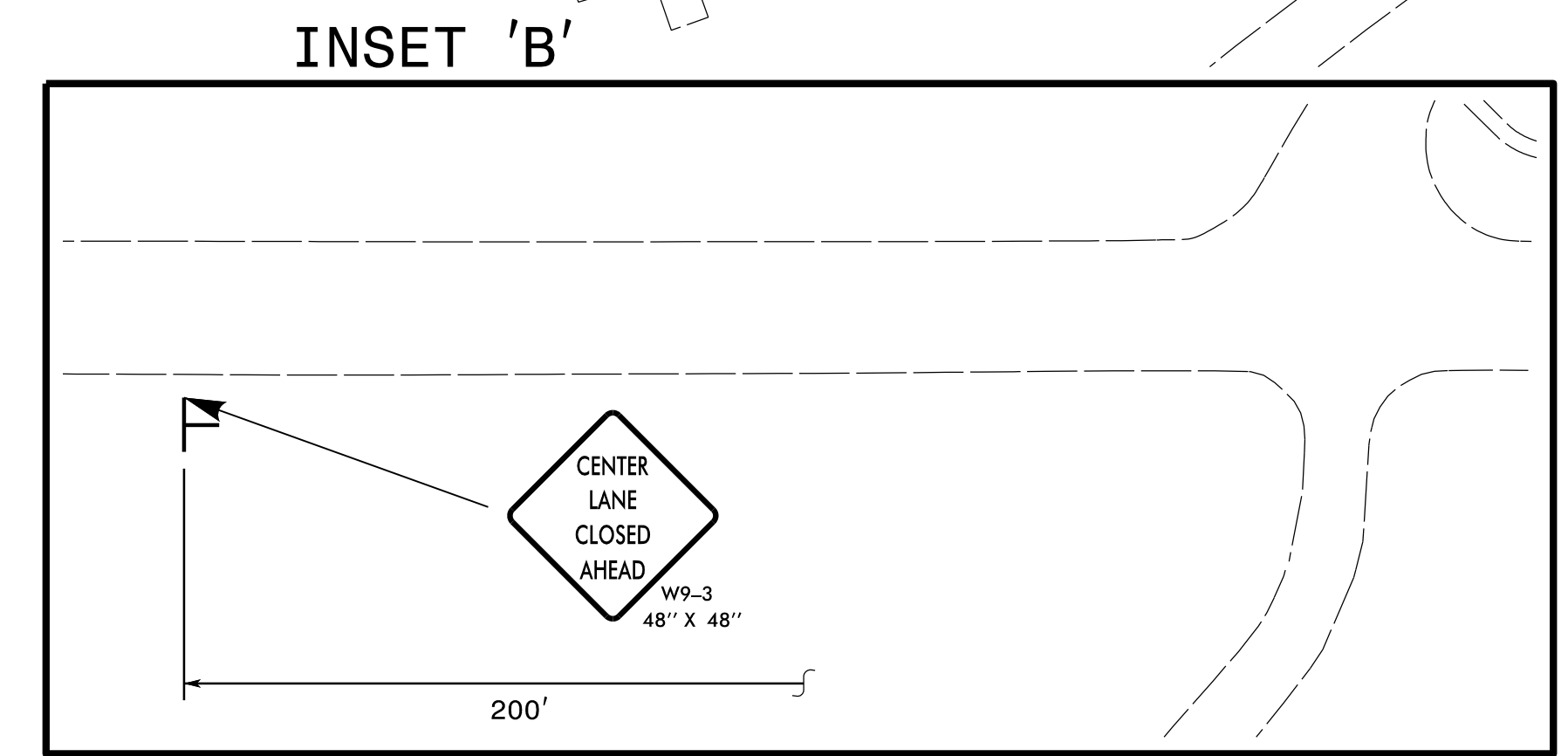
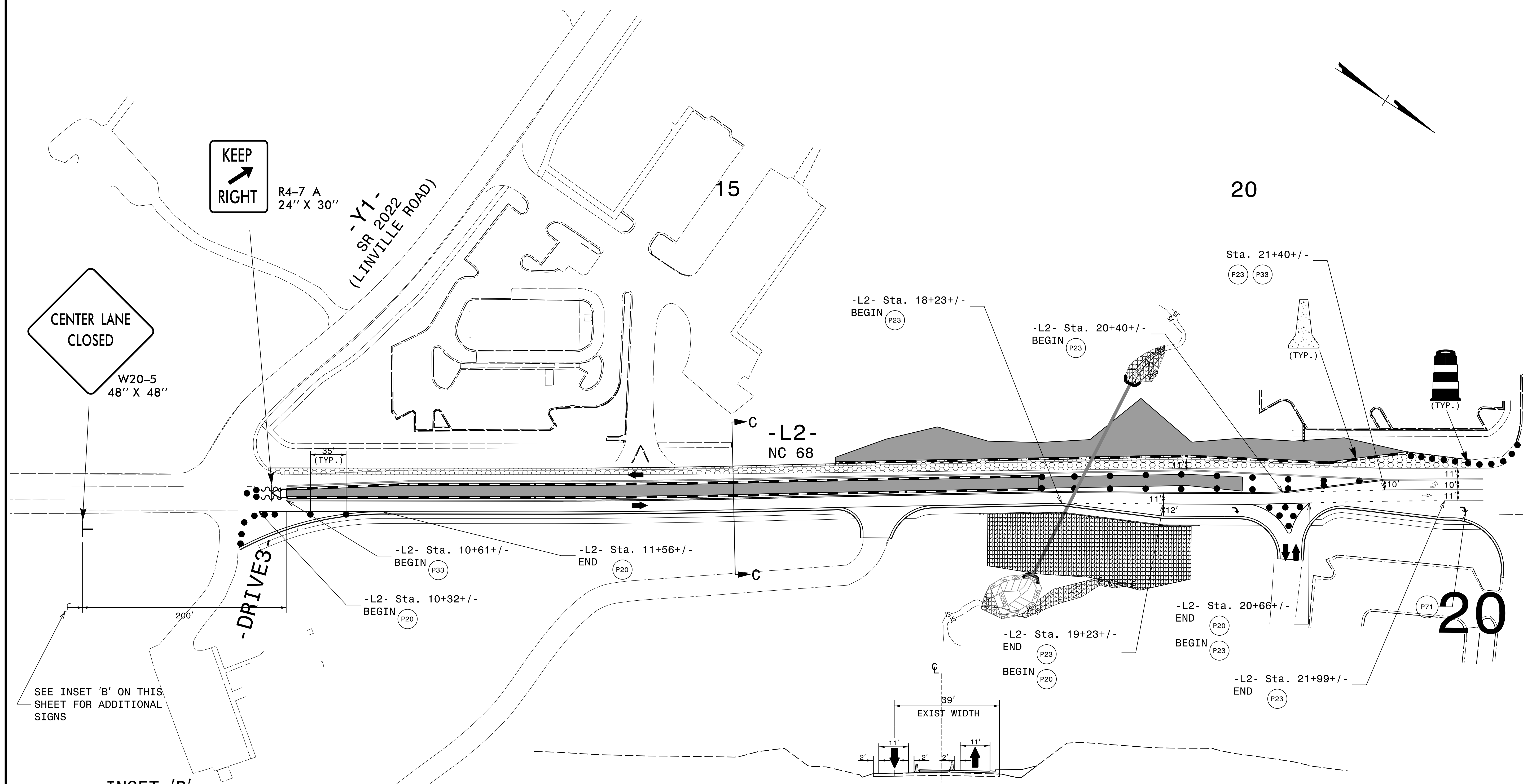
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 DATE: 5/3/2023

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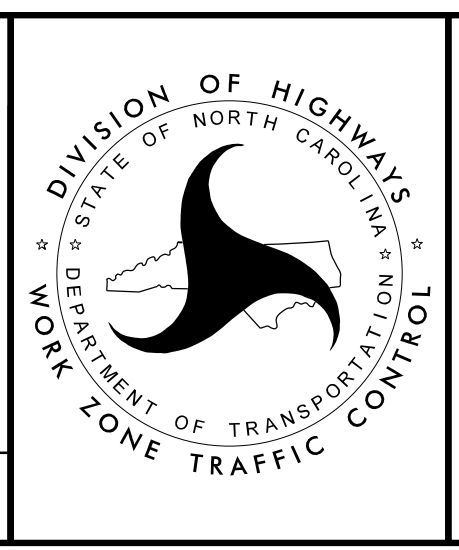


PHASE 2
STEP 3
DETAIL



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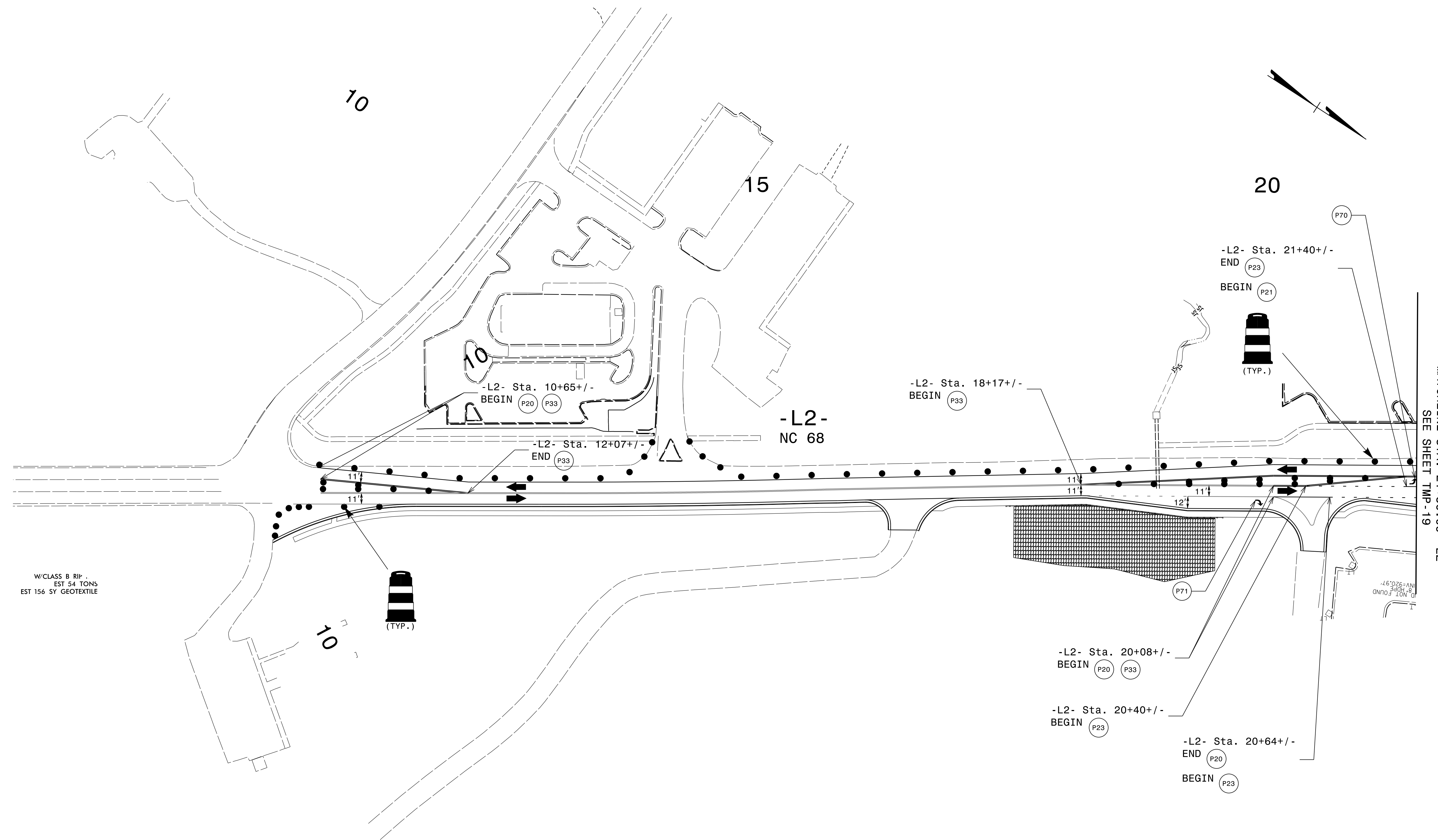


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**PHASE 2
 STEP 4
 DETAIL**

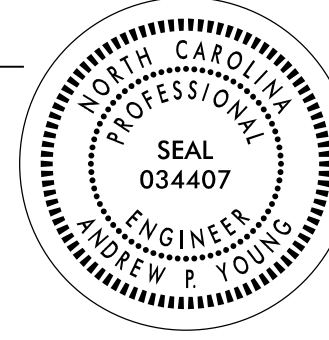
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 UNLESS ALL SIGNATURES COMPLETED**

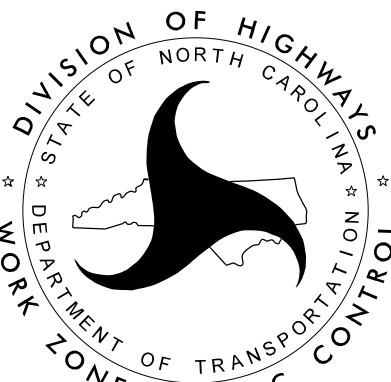
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 USER:zmckenzie

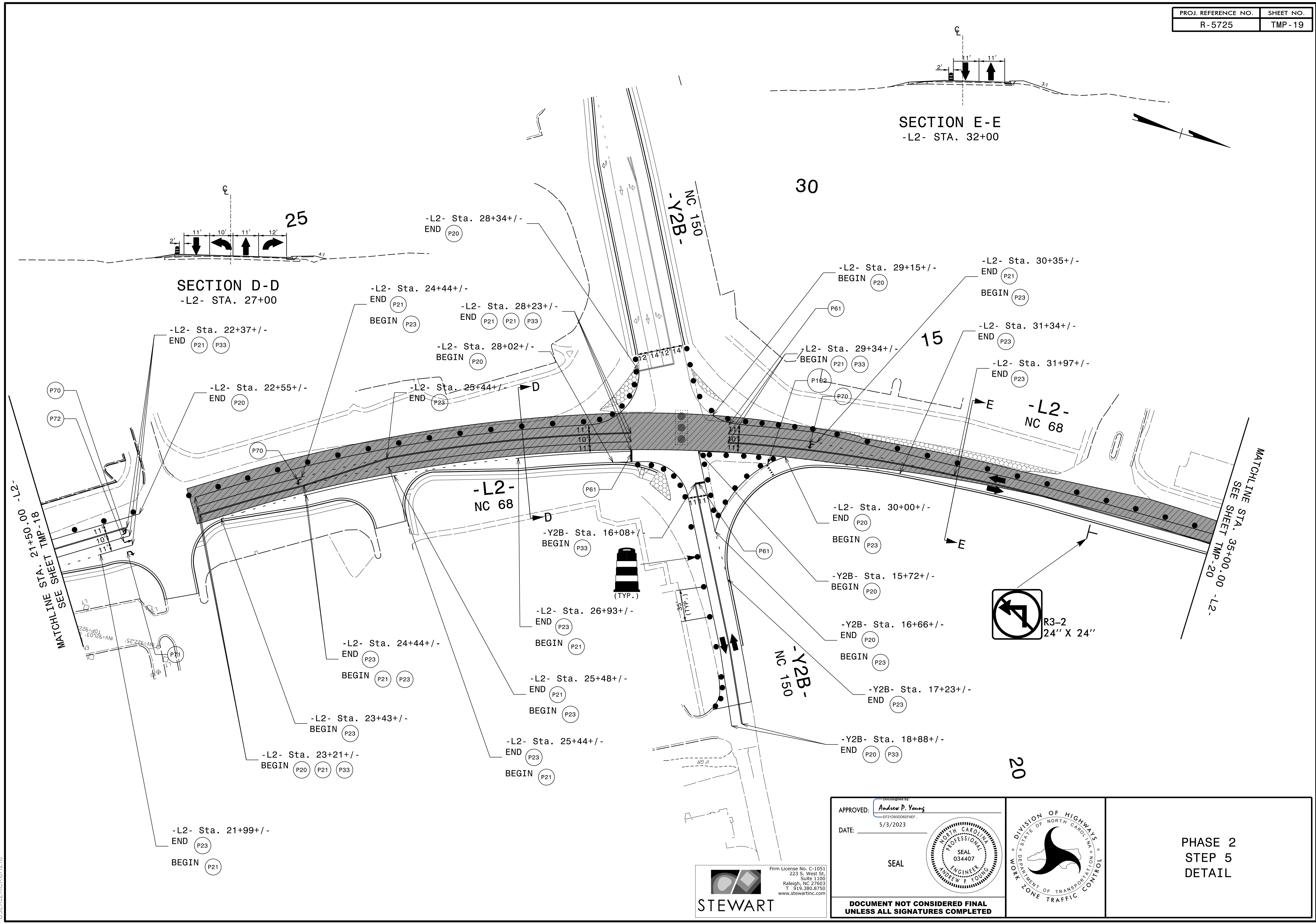

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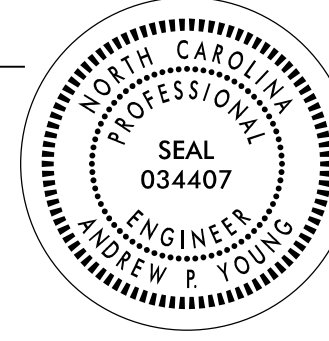
**PHASE 2
 STEP 5
 DETAIL**

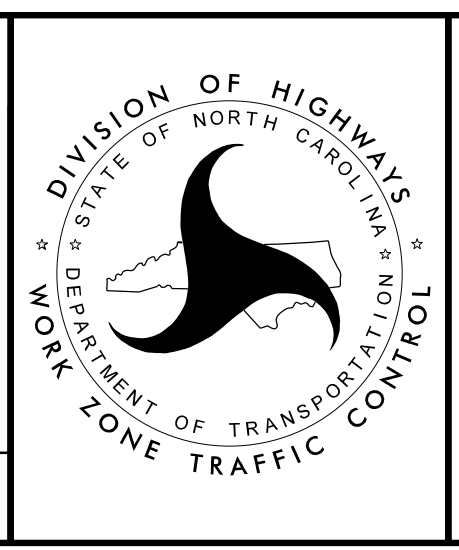
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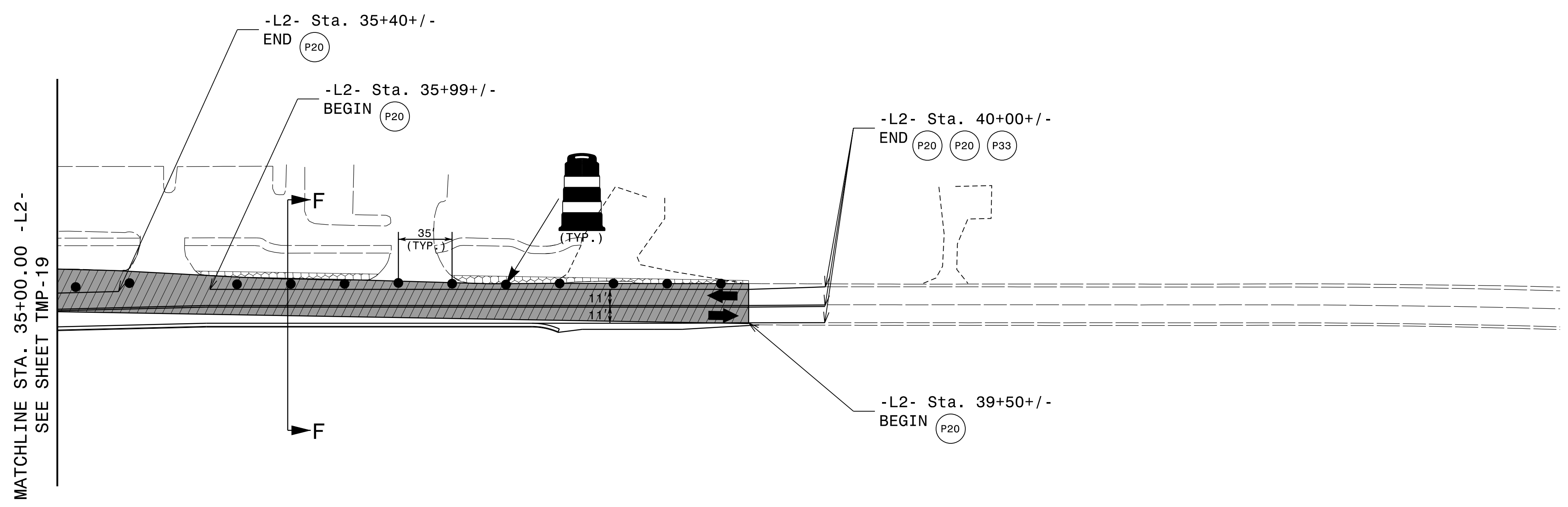
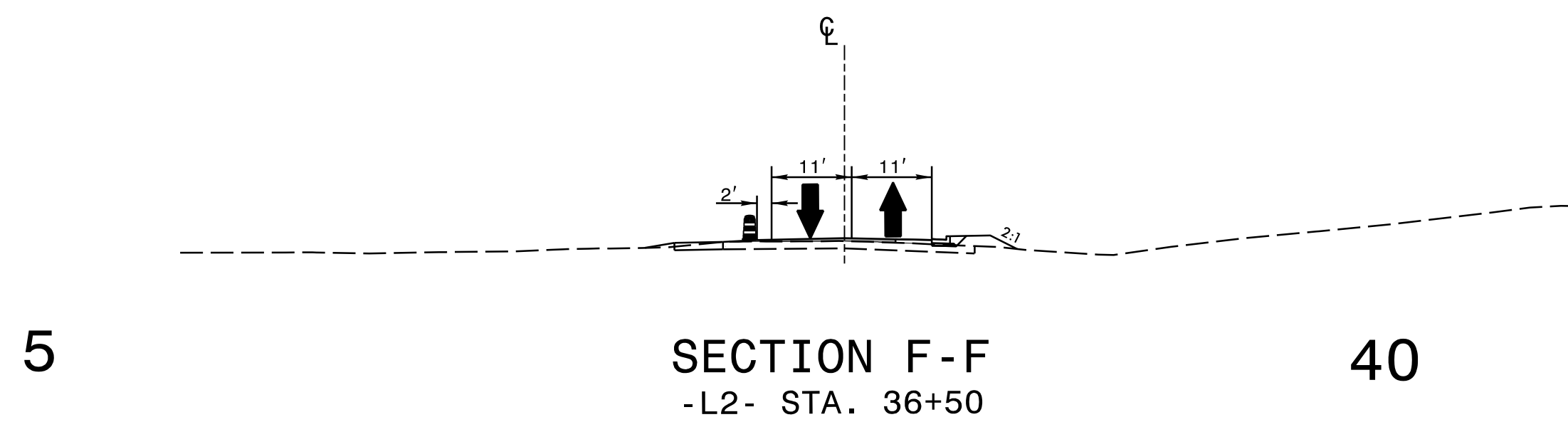

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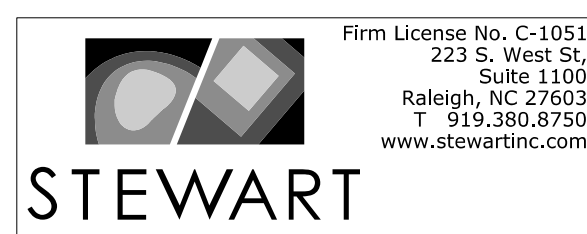


PHASE 2
 STEP 5
 DETAIL

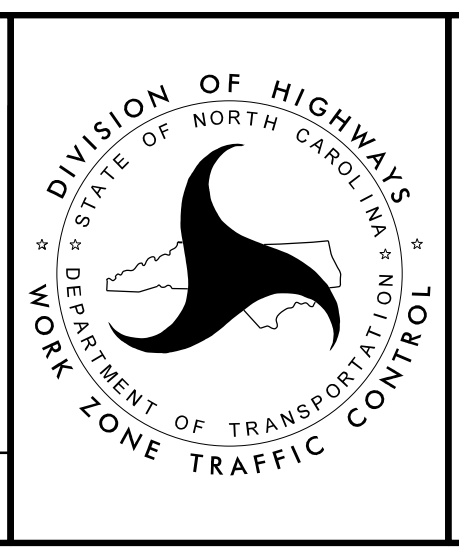
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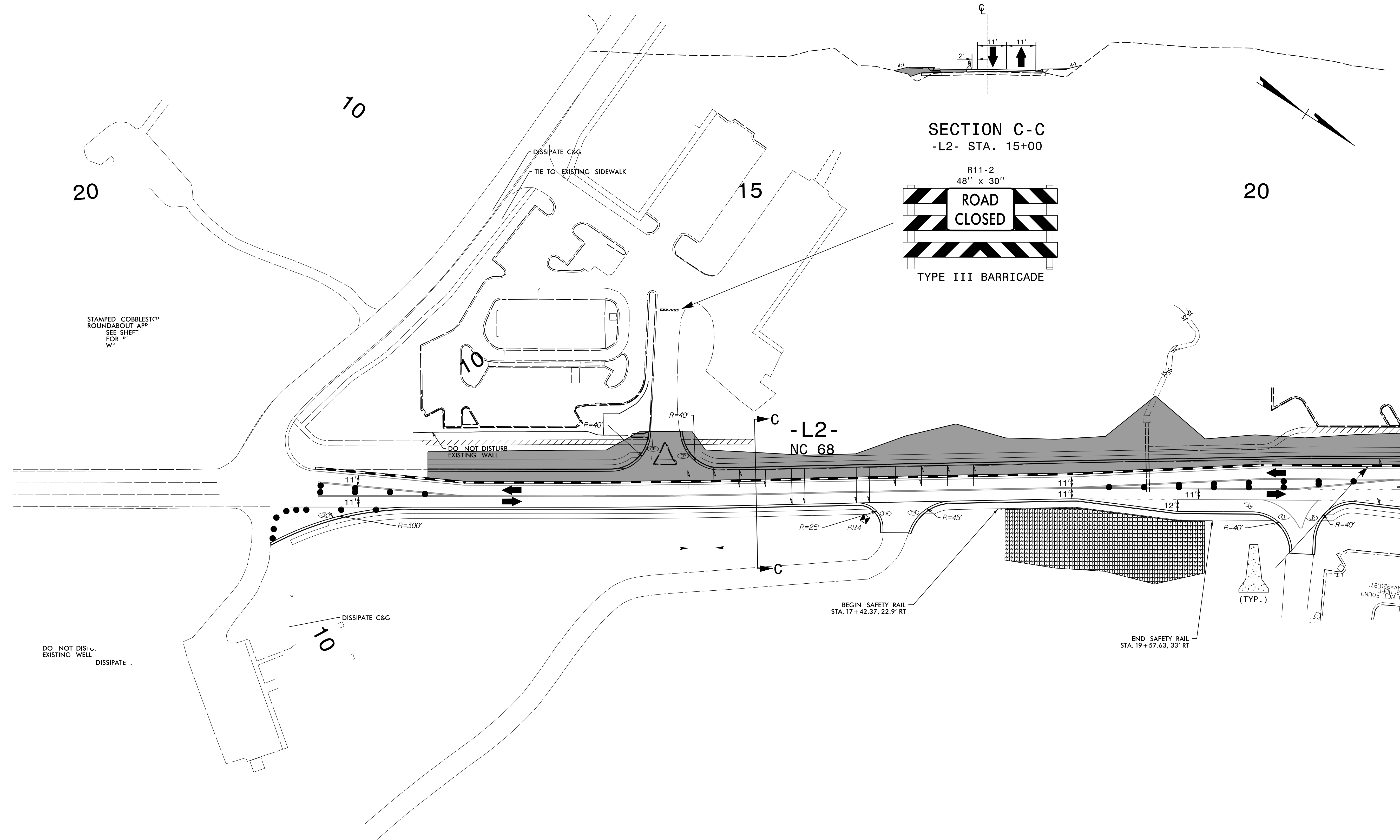
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PHASE 2
 STEP 5
 DETAIL



MATCHLINE STA. 21+50.00 -L2-
SEE SHEET TMP-22

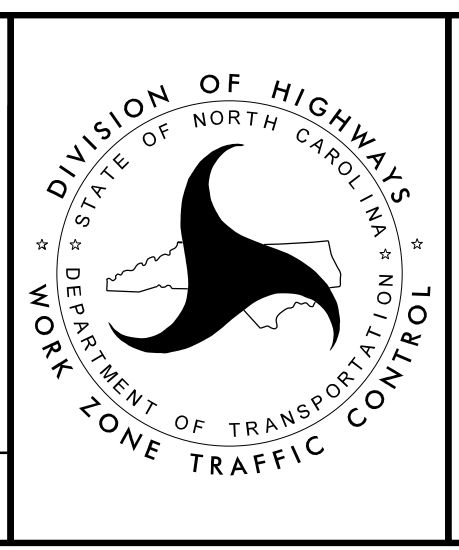
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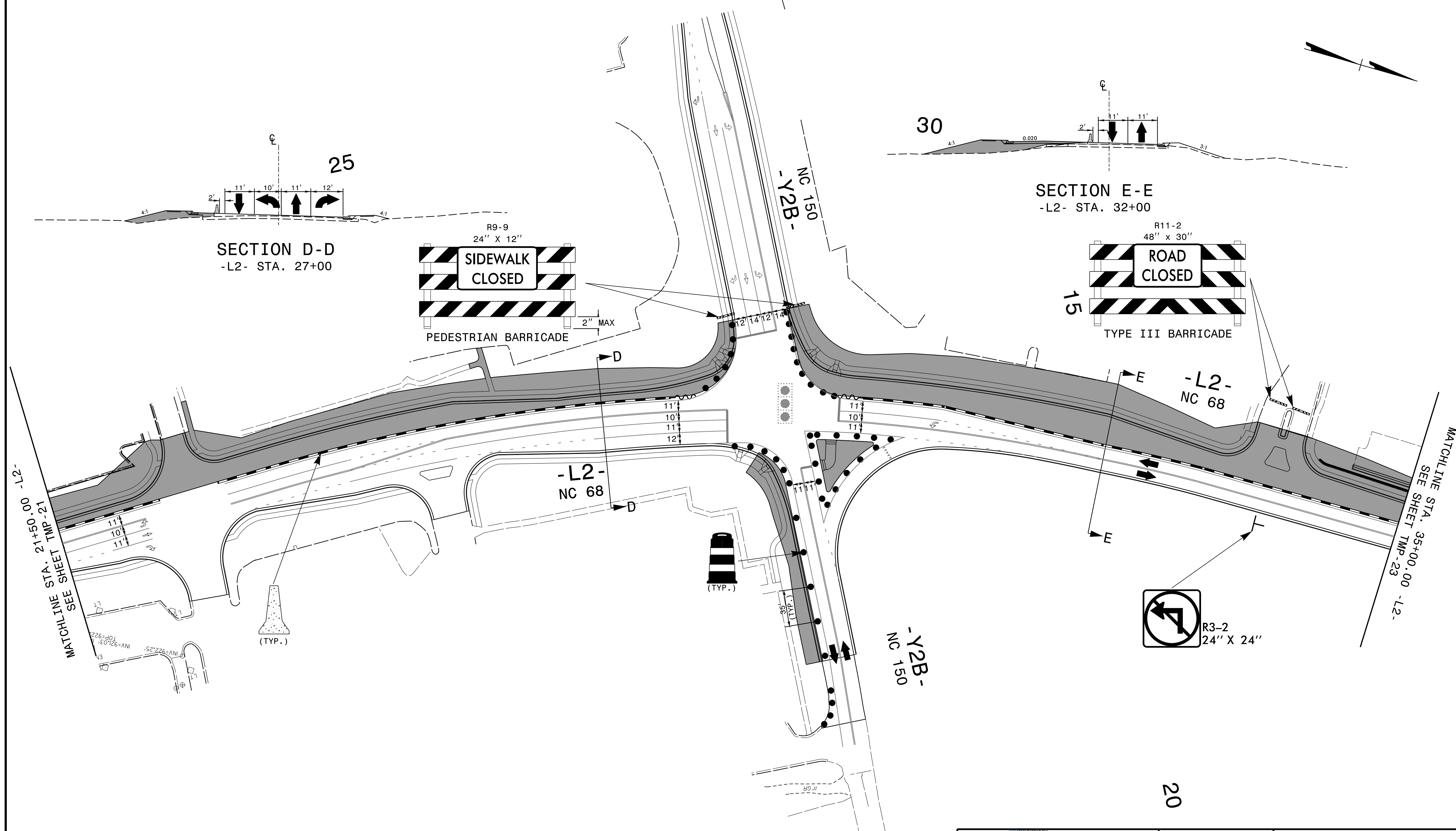
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PHASE 2
STEP 6
DETAIL



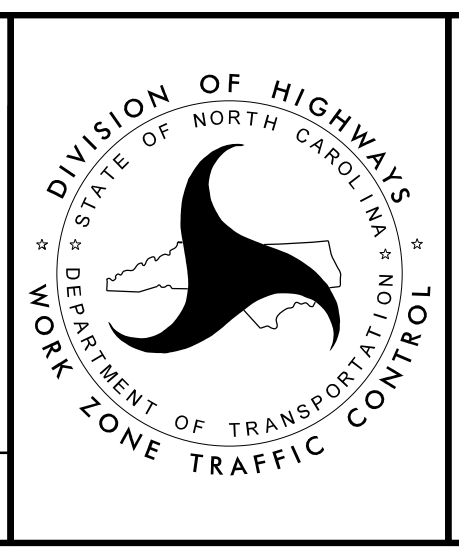
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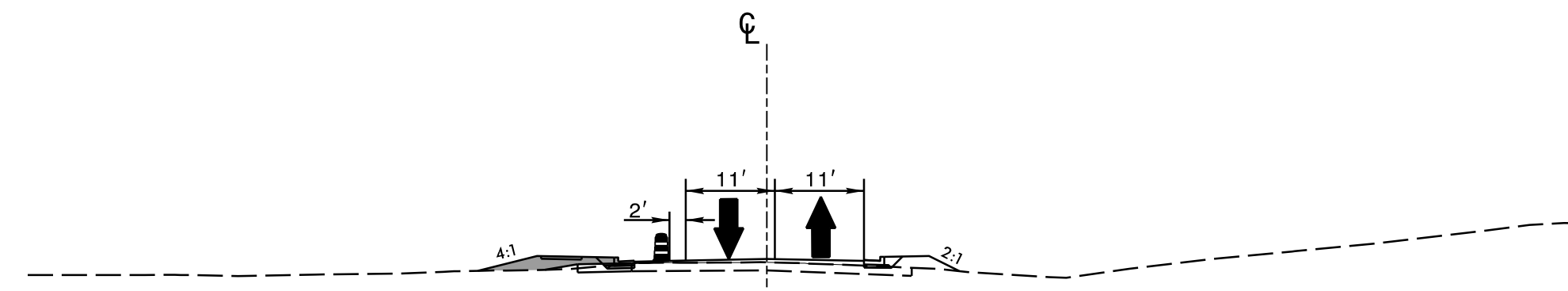
SEAL

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 NORTH CAROLINA
 PROFESSIONAL
 ENGINEER
 034407
 ANDREW P. YOUNG



**PHASE 2
 STEP 6
 DETAIL**

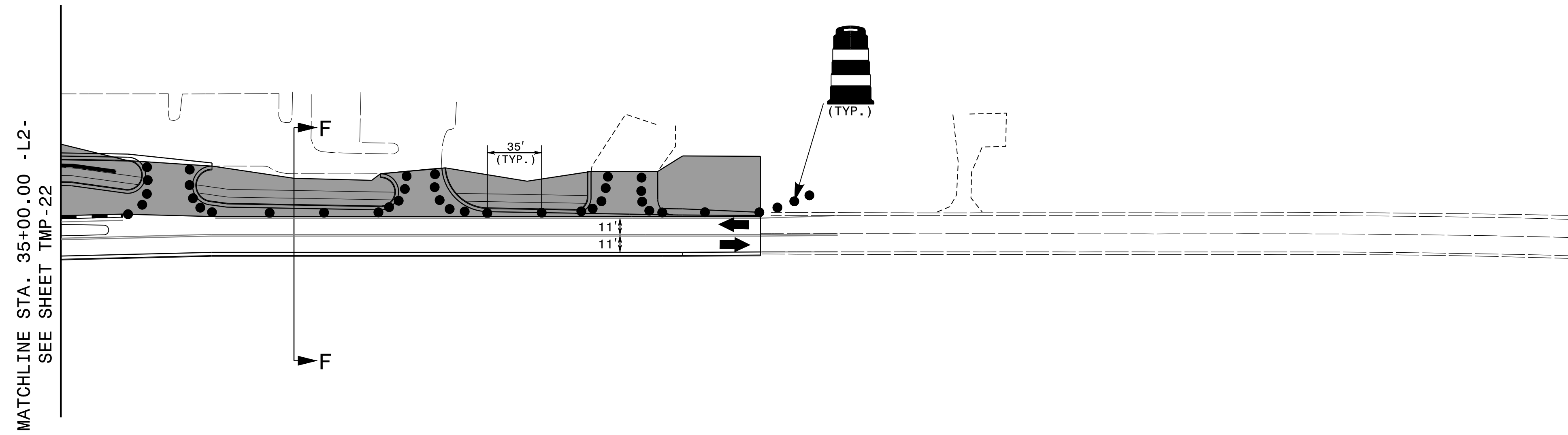
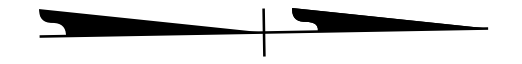
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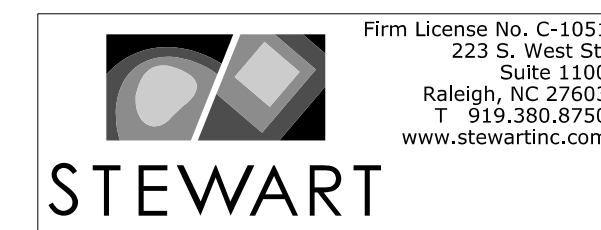
SECTION F-F
-L2- STA. 36+50

5

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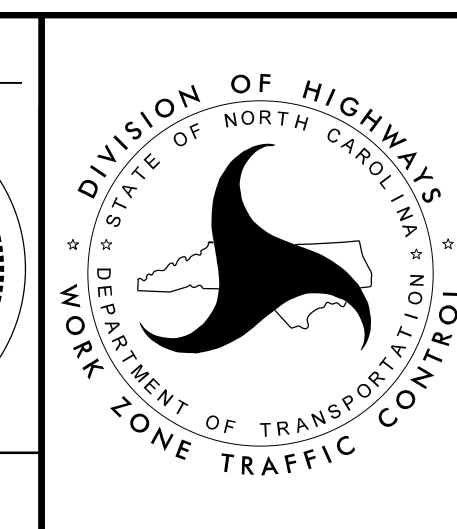
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USER:zmckenzie



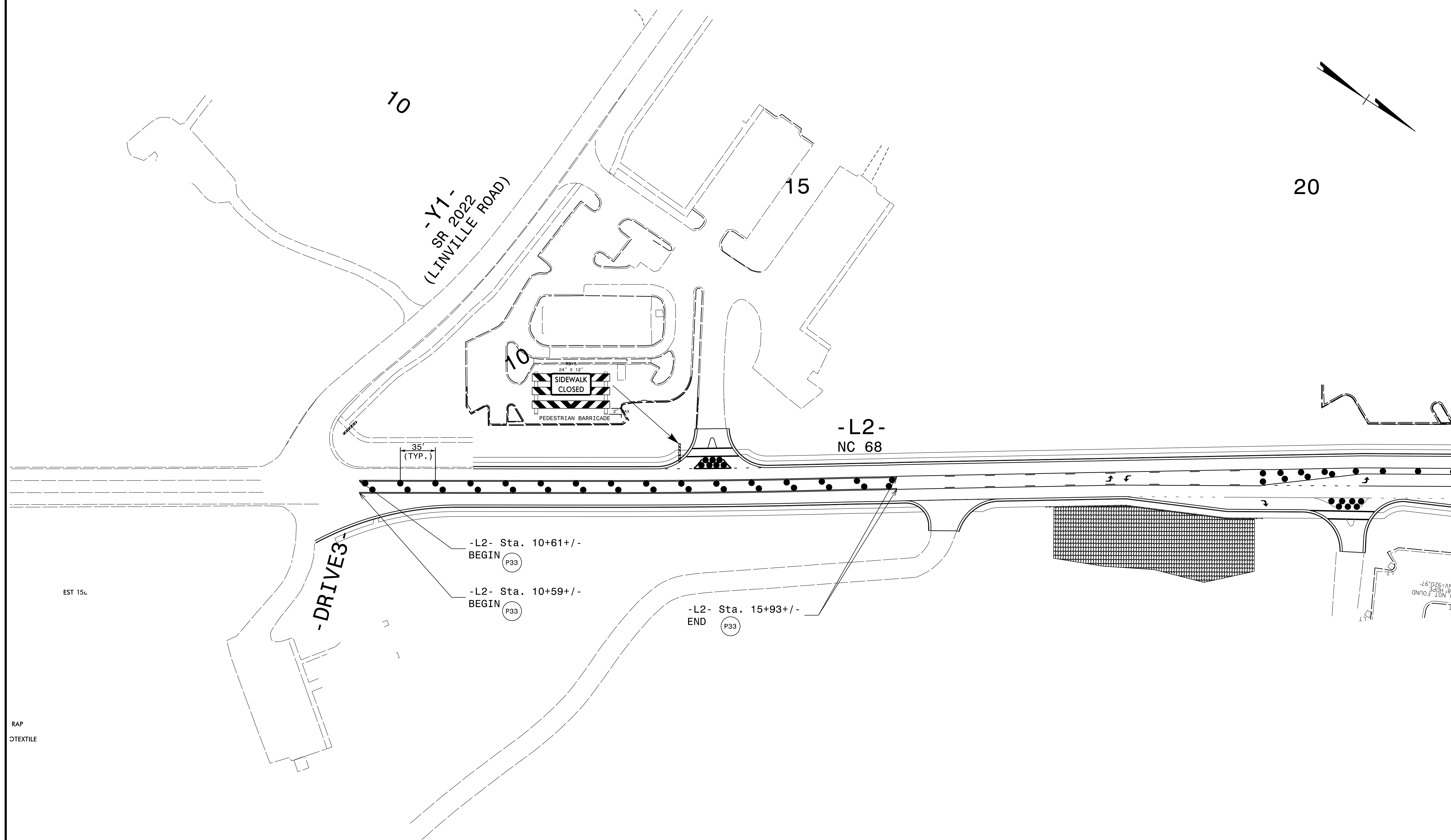
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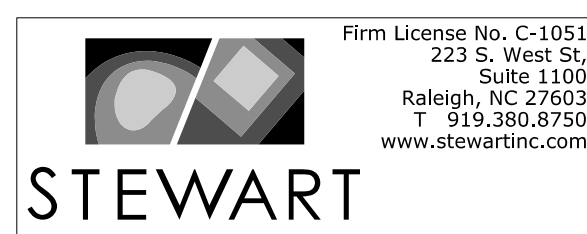
PHASE 2
STEP 6
DETAIL



MATCHLINE STA. 21+50.00 -L2-
SEE SHEET TMP-25

REFERENCE FINAL PAVEMENT MARKING PLANS
FOR STATIONS AND MARKING TYPE NOT LISTED
ON THIS SHEET.

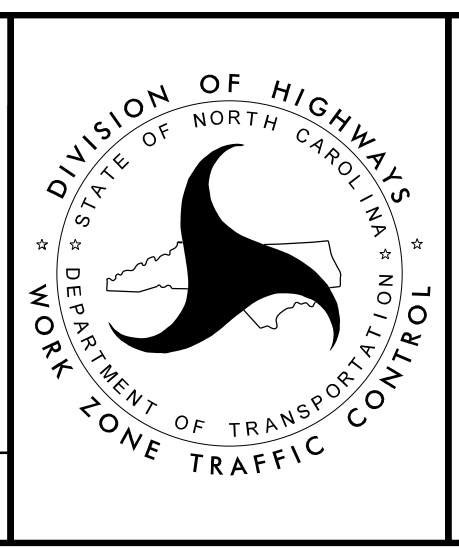
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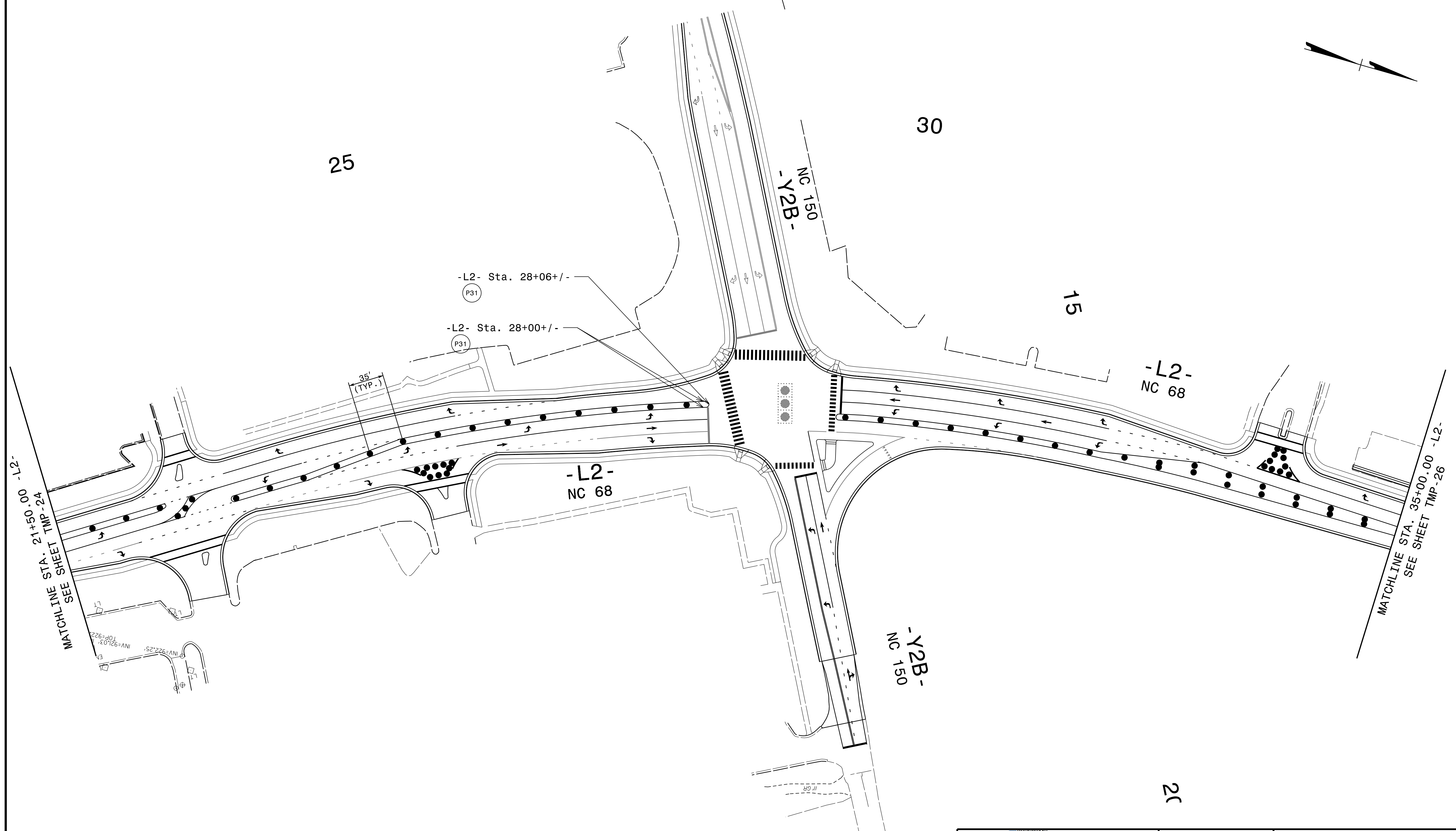
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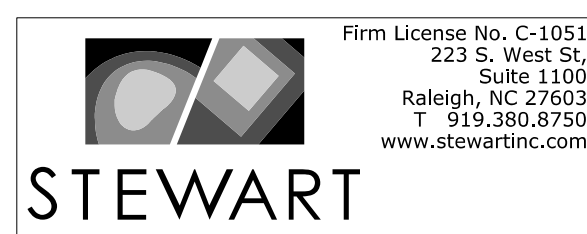


PHASE 2
STEP 7
DETAIL



REFERENCE FINAL PAVEMENT MARKING PLANS
FOR STATIONS AND MARKING TYPE NOT LISTED
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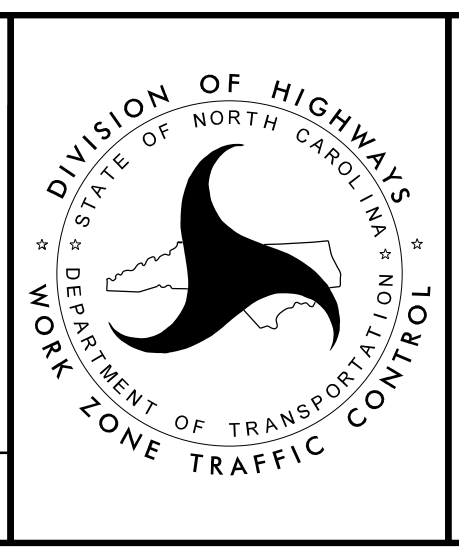
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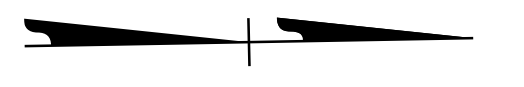
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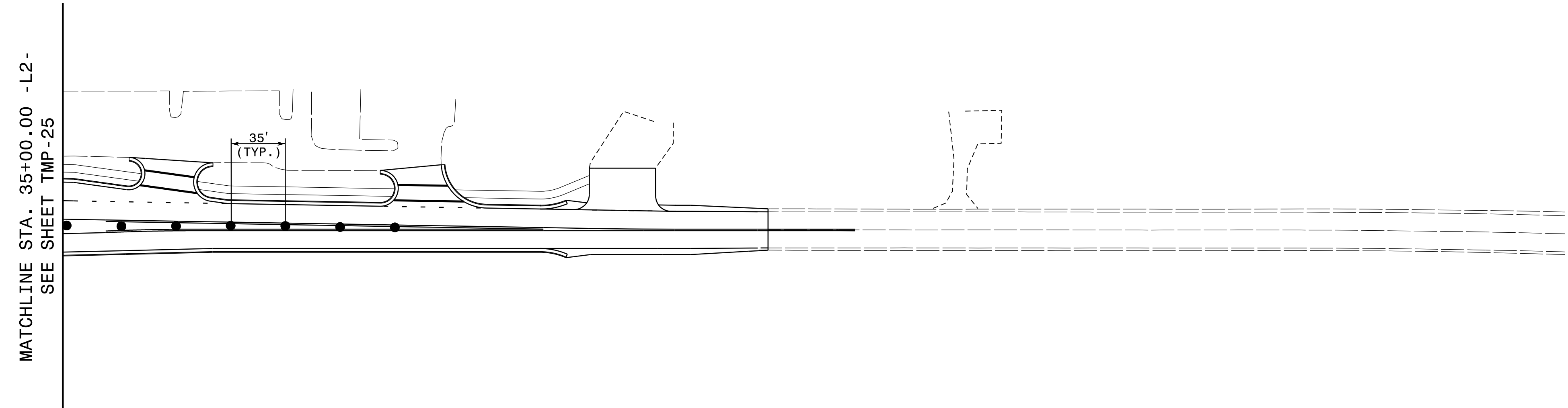


PHASE 2
STEP 7
DETAIL



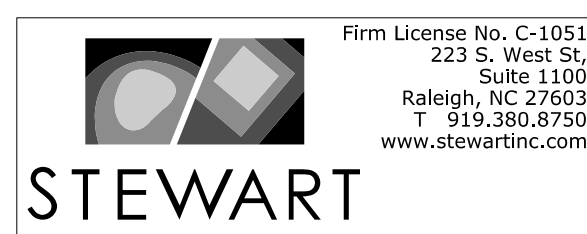
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REFERENCE FINAL PAVEMENT MARKING PLANS
FOR STATIONS AND MARKING TYPE NOT LISTED
ON THIS SHEET.

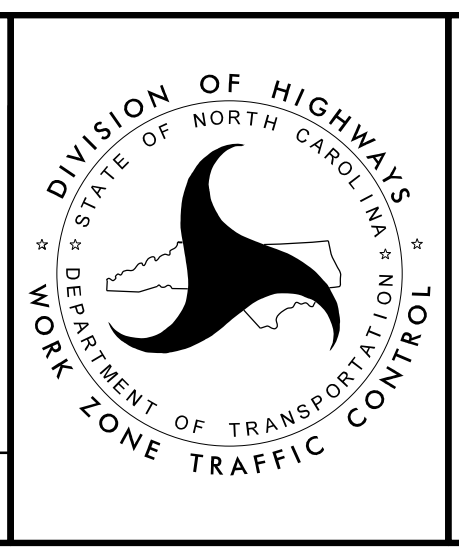
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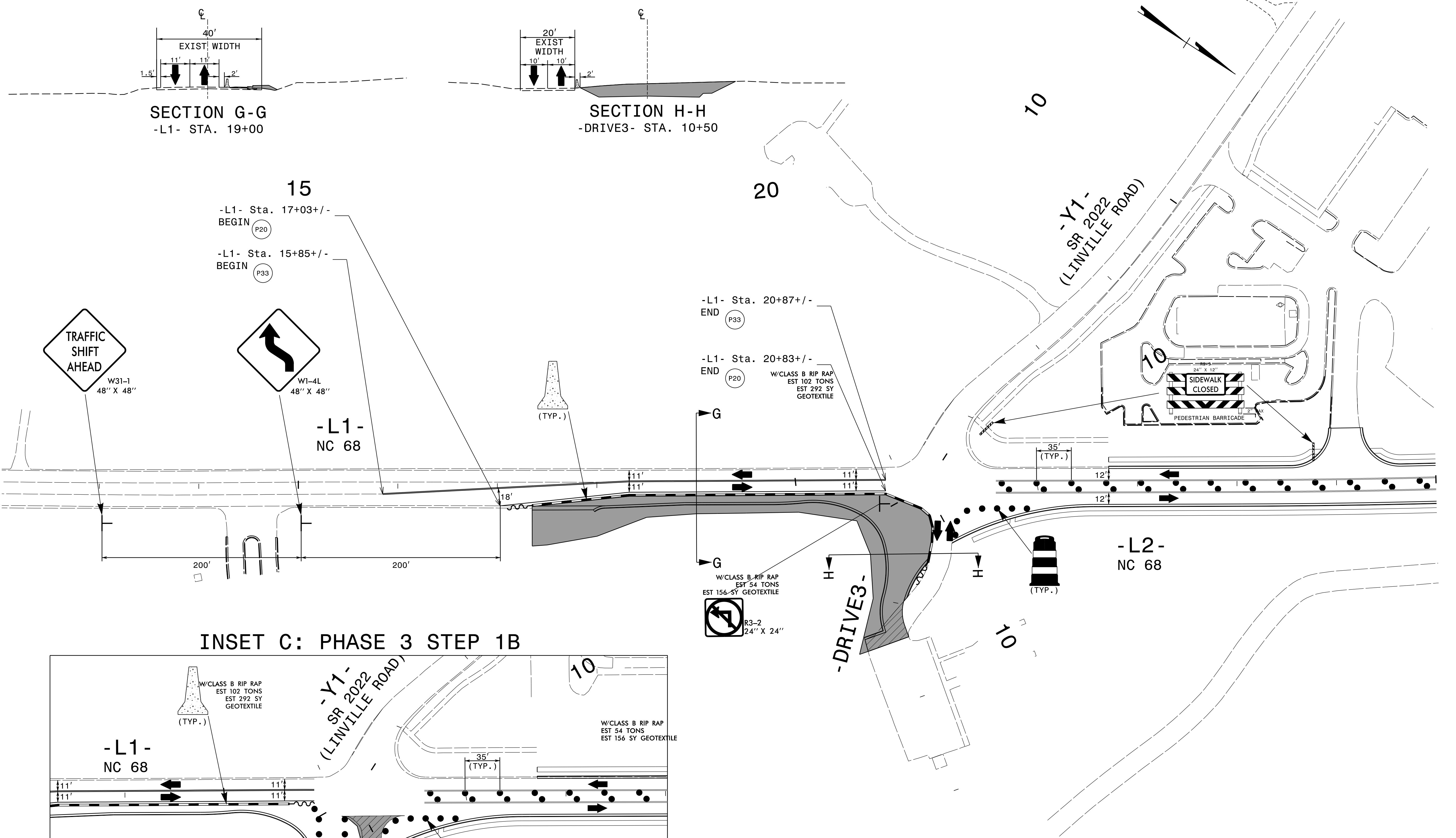
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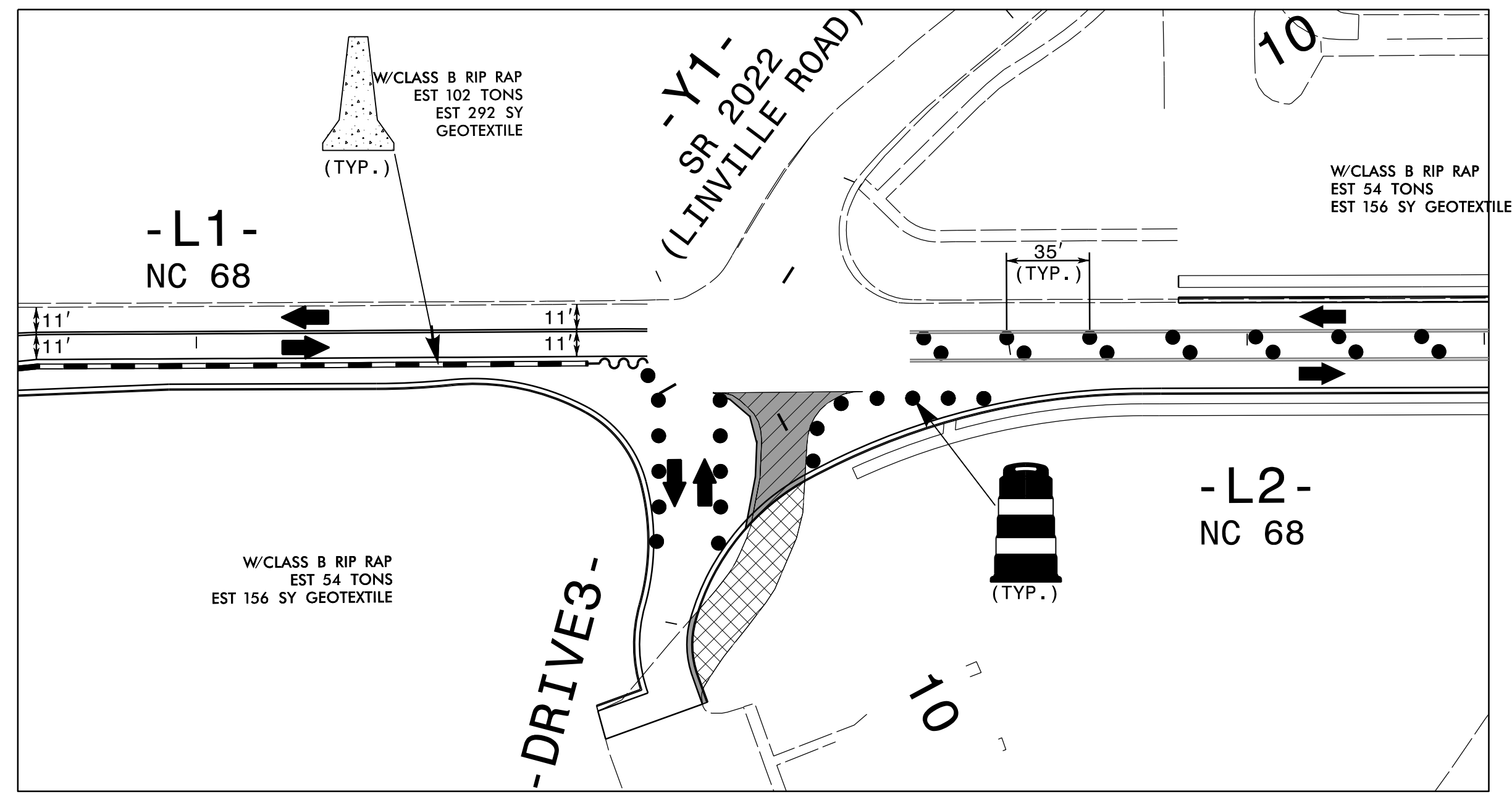
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PHASE 2
STEP 7
DETAIL



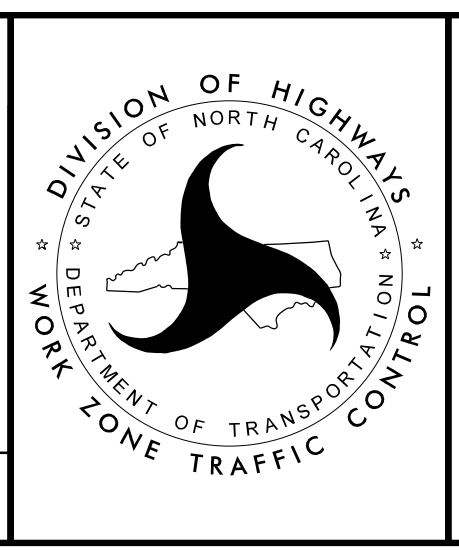
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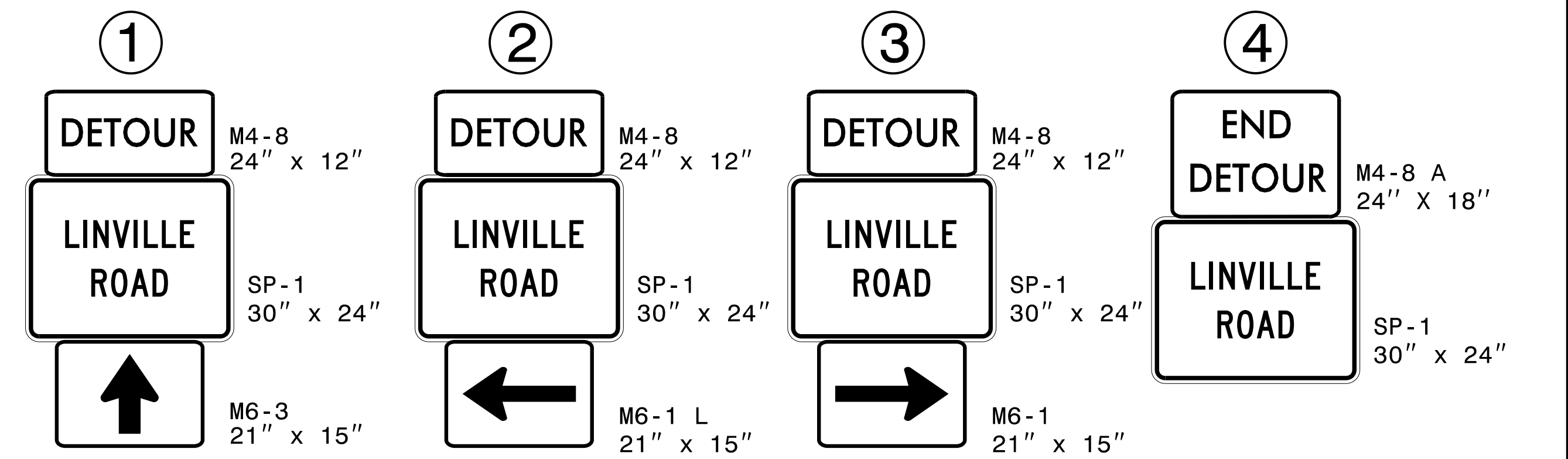
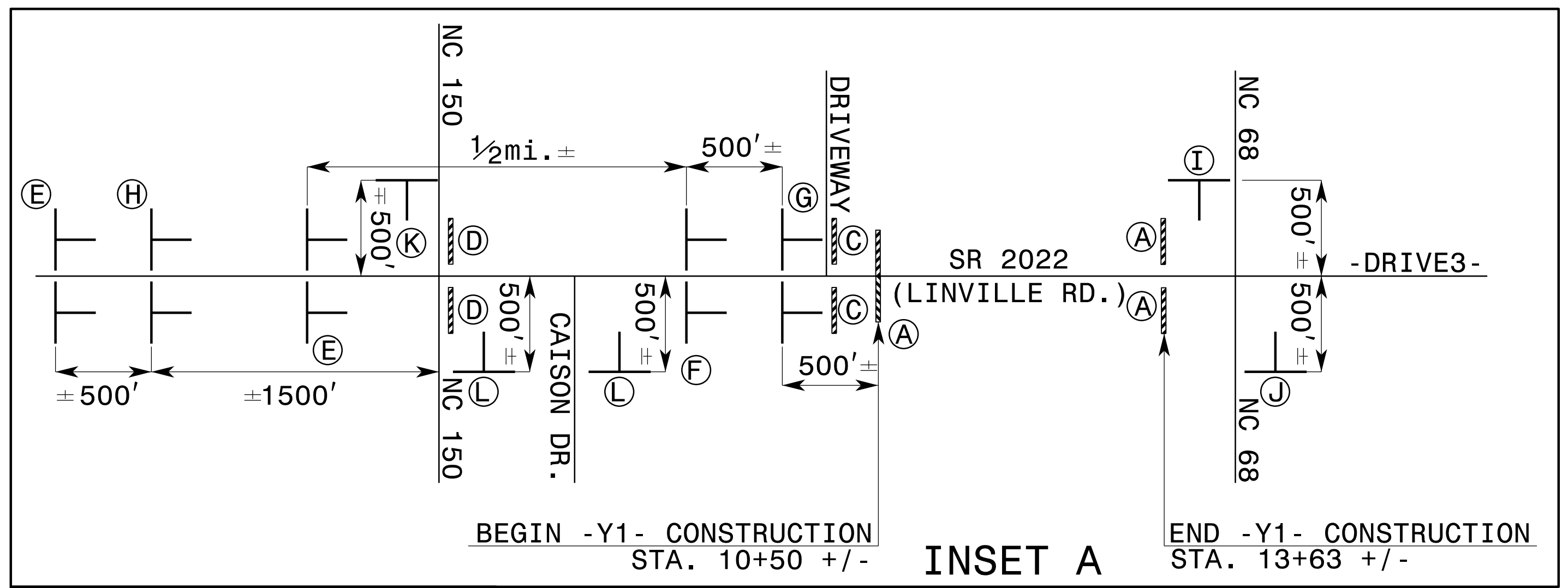
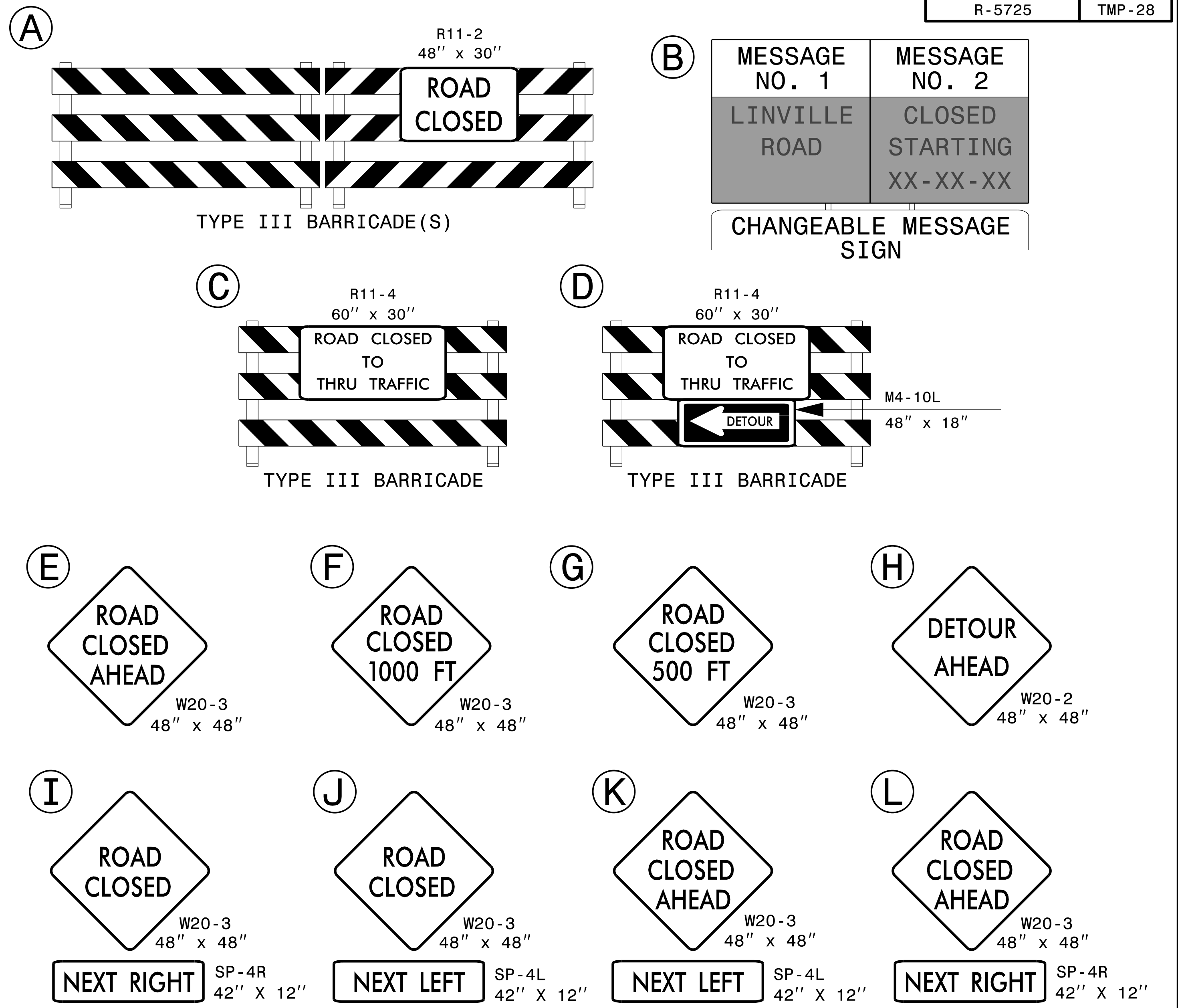
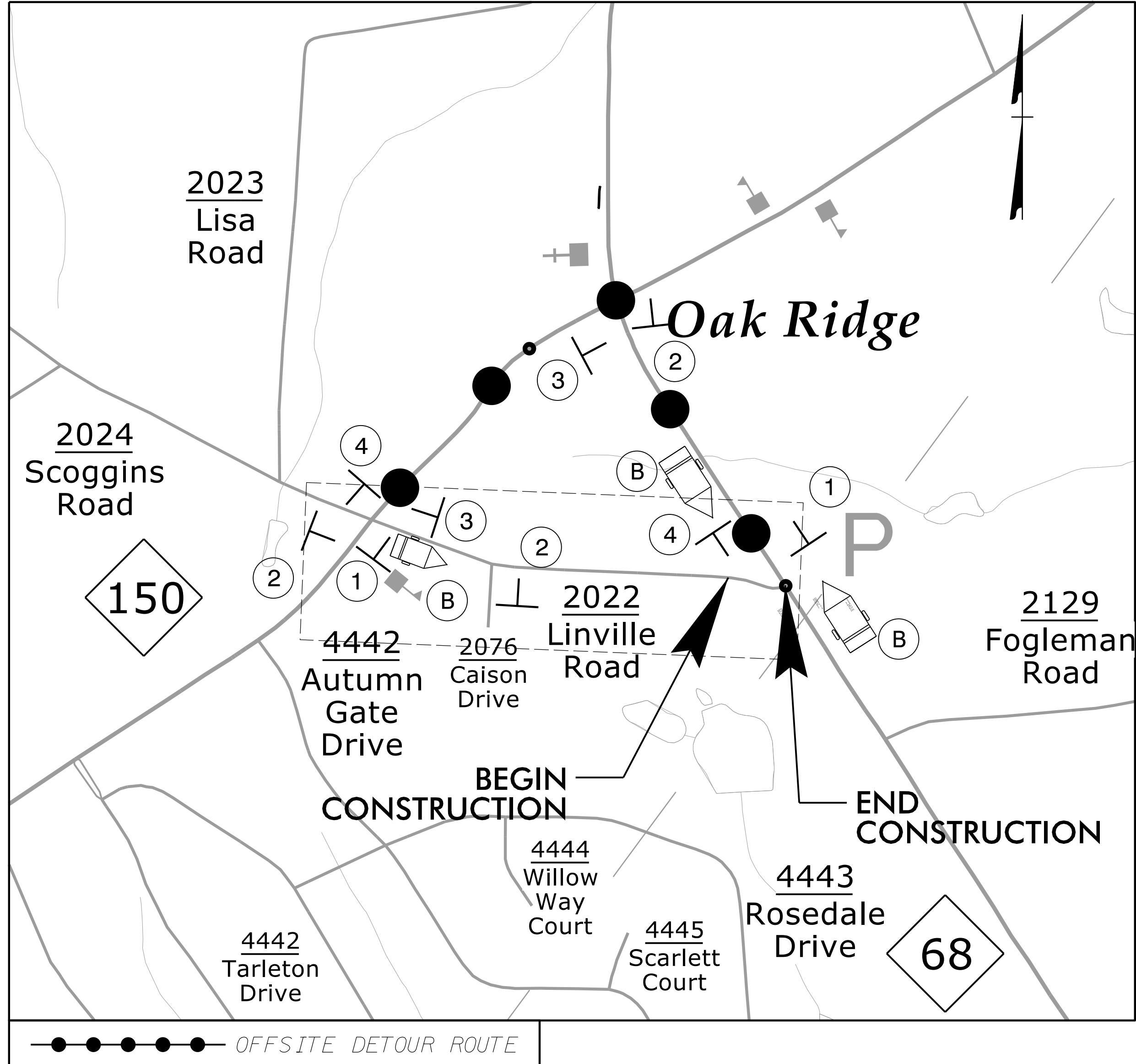
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ENGINEER
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034407



**PHASE 3
STEP 1A
DETAIL**

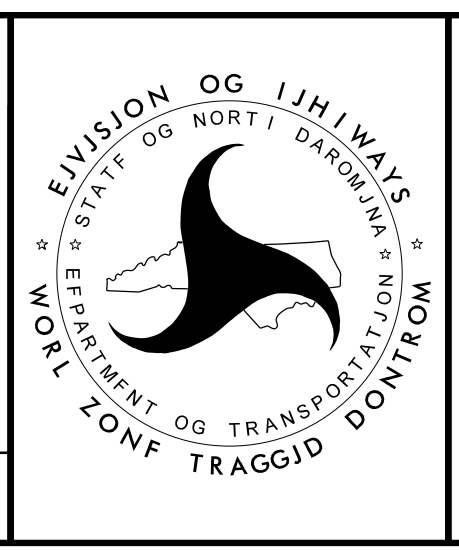
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REFER TO ROADWAY STANDARD
DRAWING 1101.03, SHEETS 1 & 2 OF 9
FOR APPLICABLE NOTES.

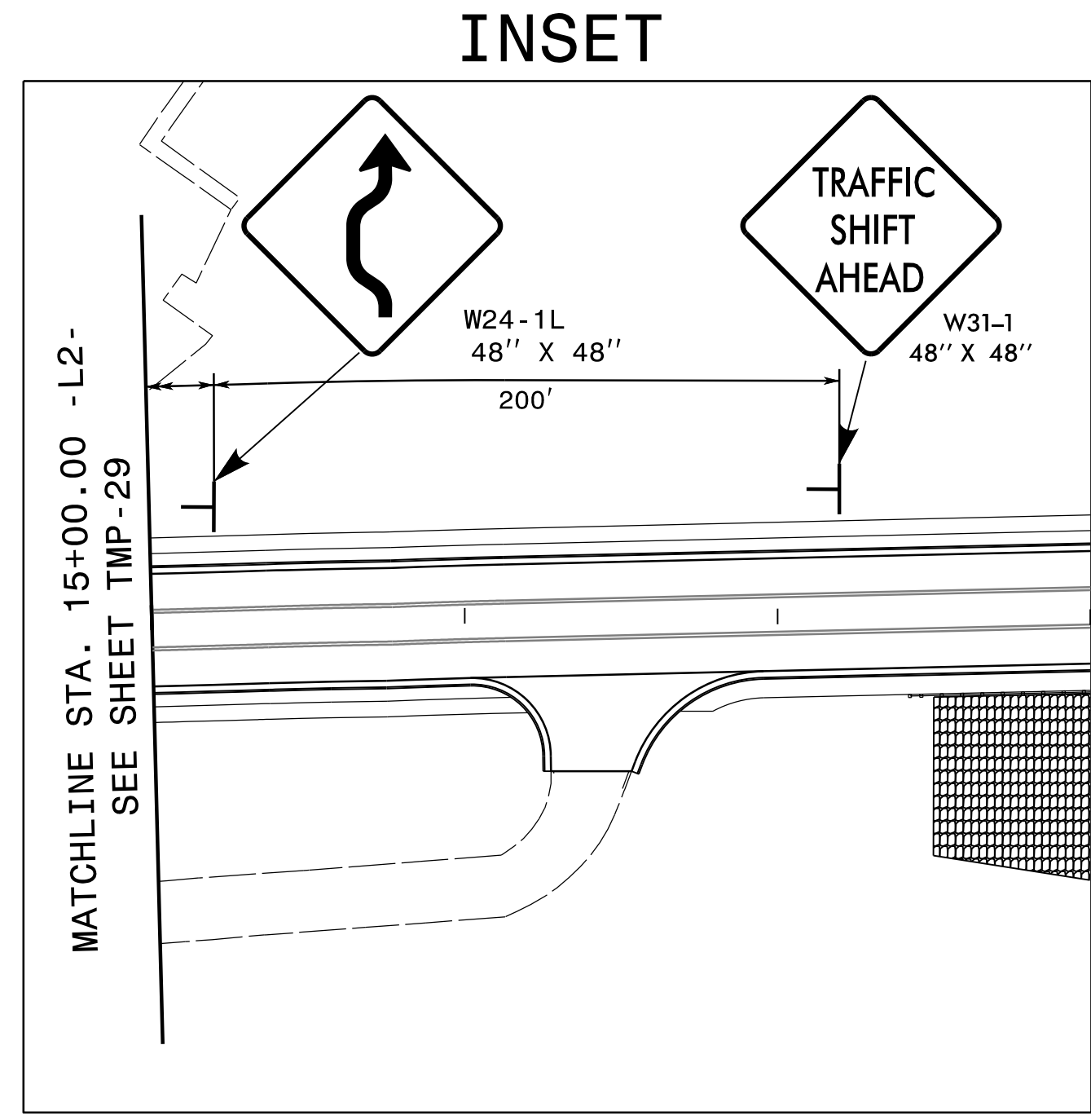
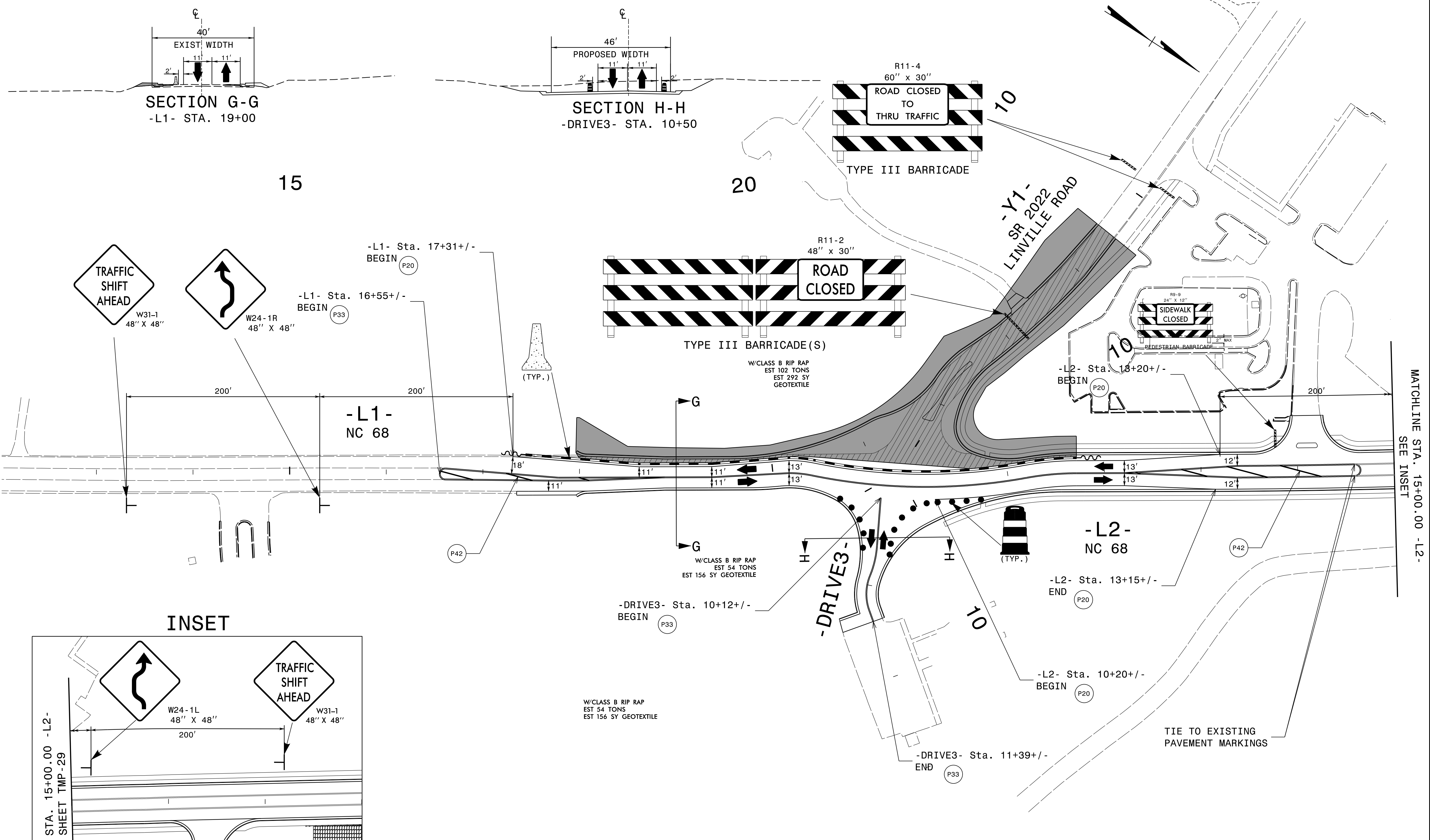


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PHASE 3
STEP 2
DETAIL

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USER:zmckenzie

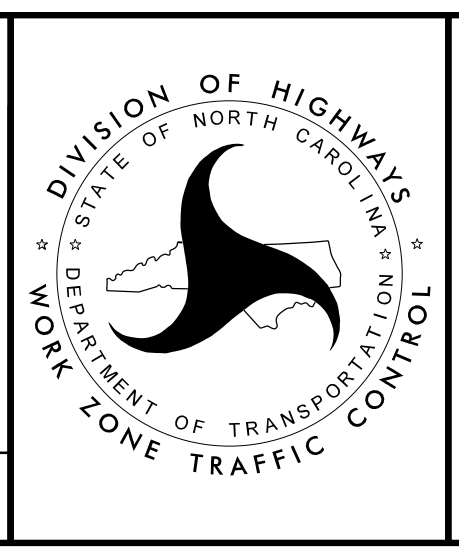
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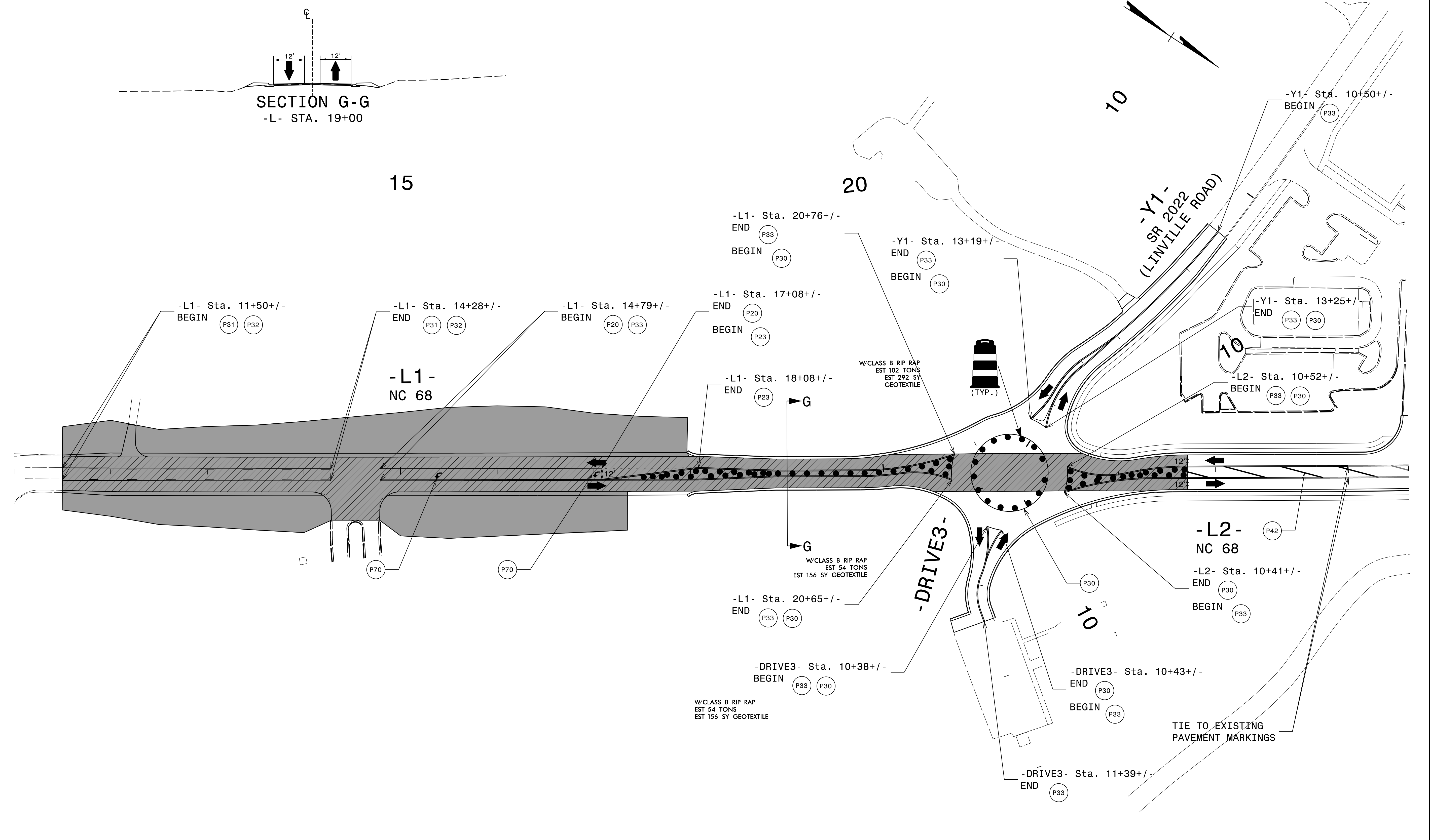
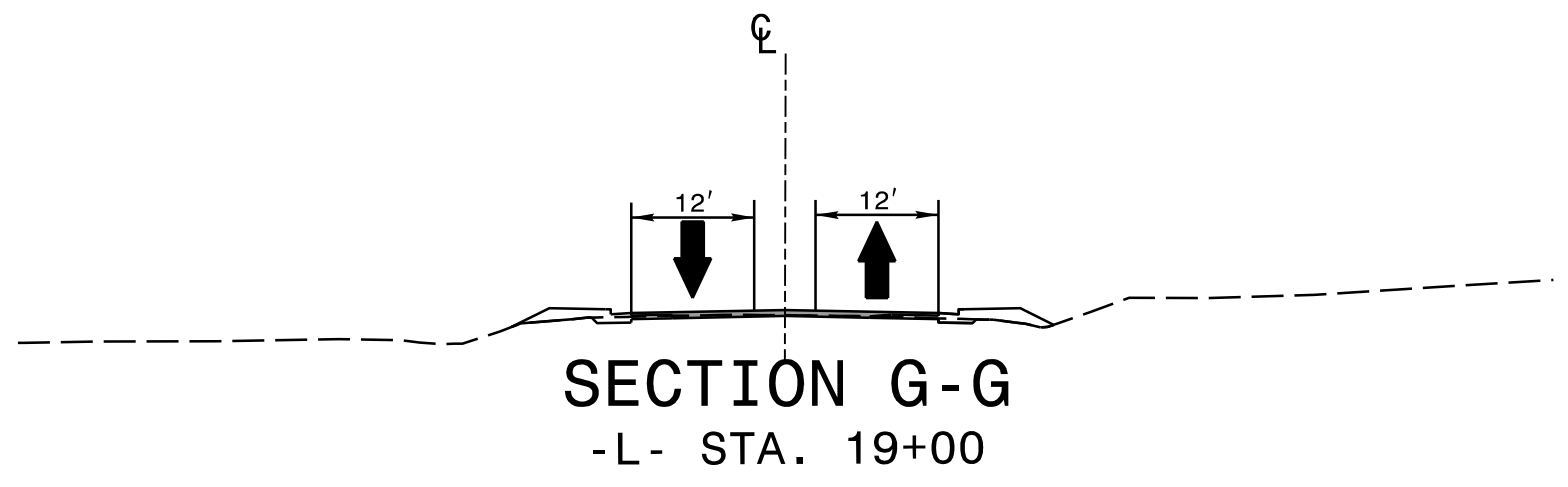
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ANDREW P. YOUNG
034407

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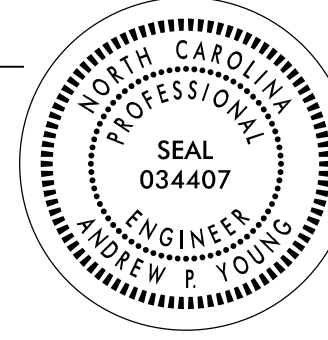


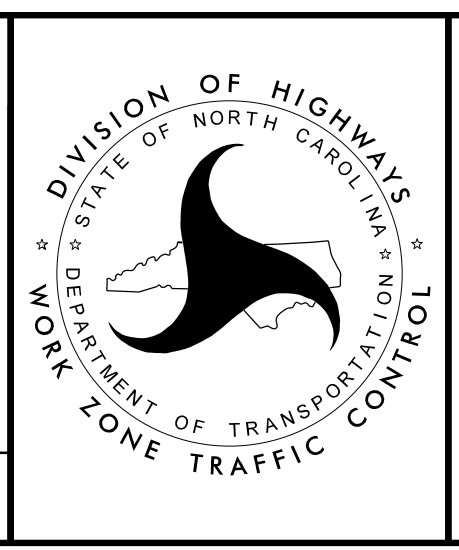
**PHASE 3
STEP 2
DETAIL**



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 USER:zmckenzie


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APPROVED: Andrew P. Young
EF210030002F4EF
 DATE: 5/3/2023
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**PHASE 3
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