

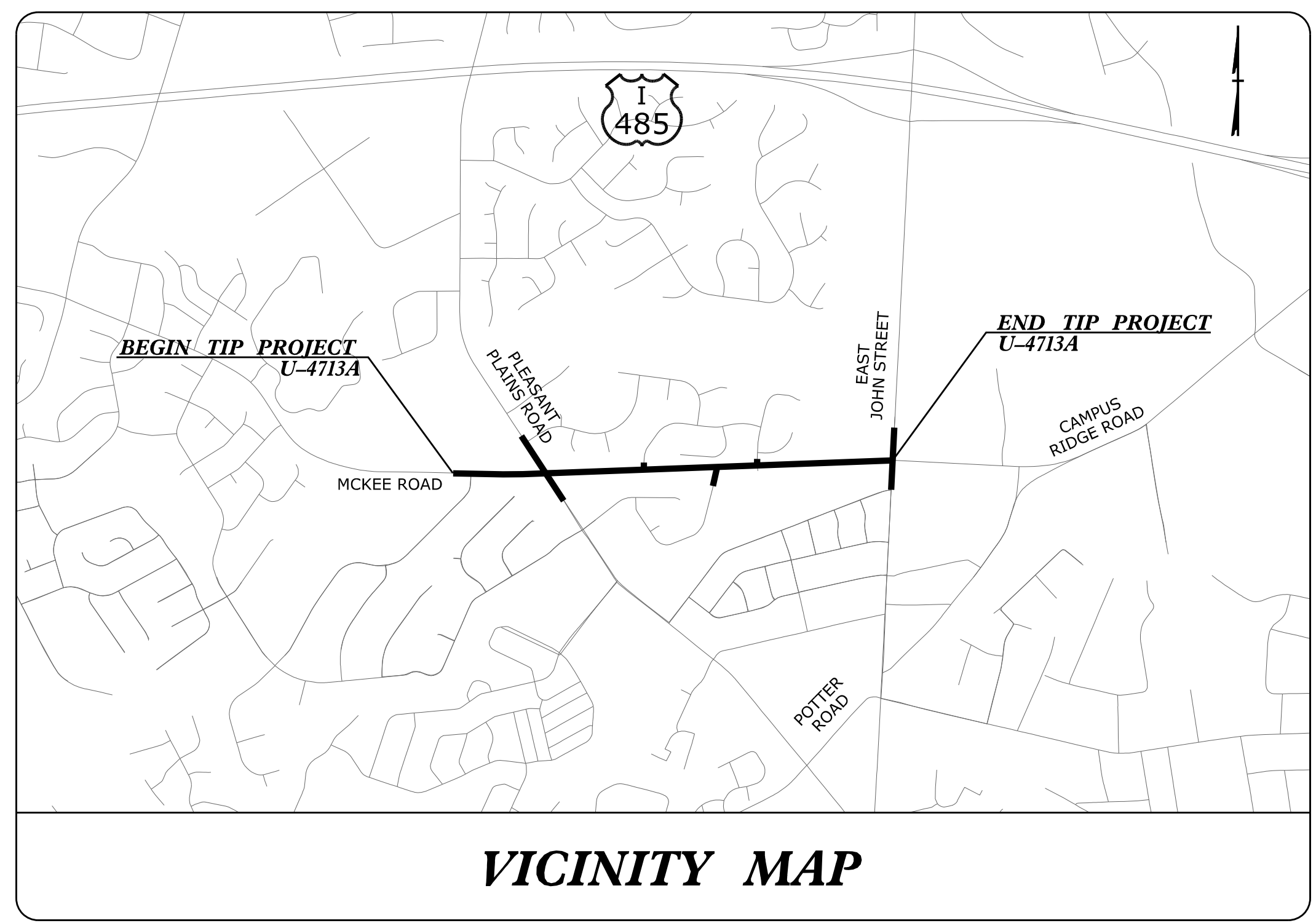
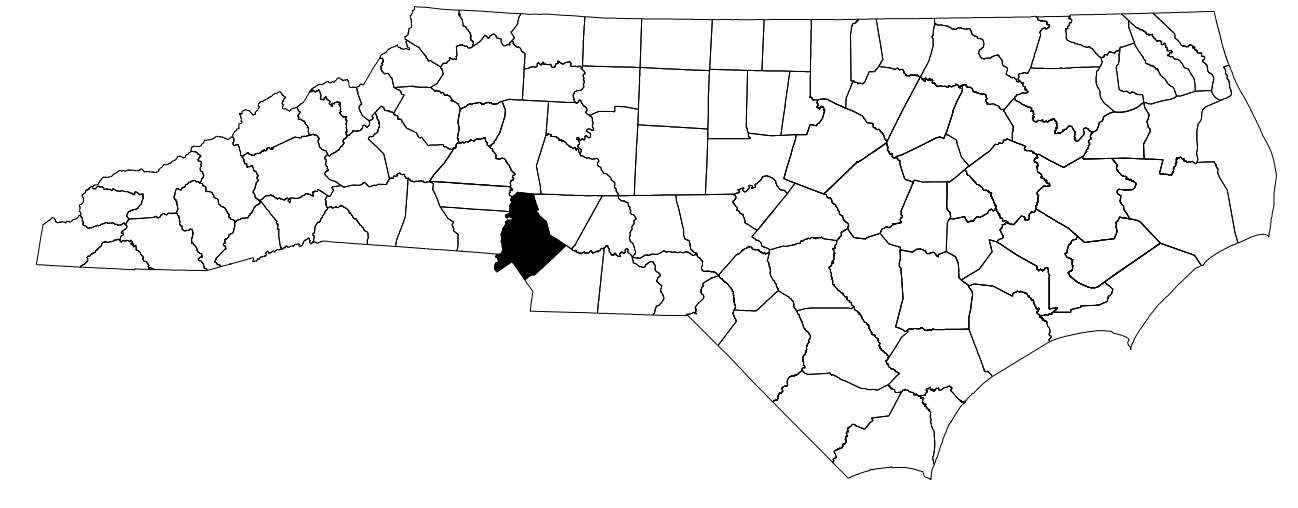
STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

TRANSPORTATION MANAGEMENT PLAN

MECKLENBERG COUNTY

LOCATION: SR 3440 MCKEE ROAD EXTENSION FROM SR 3448 (PLEASANT PLAINS ROAD) TO SR 1010 (E. JOHN STREET)

TYPE OF WORK: GRADING, DRAINAGE, PAVING, PAVEMENT REMOVAL, CONCRETE ISLANDS, THERMOPLASTIC MARKINGS AND CULVERT



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-2	CONSTRUCTION PHASING
TMP-3 THRU TMP-6	PHASE 1 DETAILS
TMP-7 THRU TMP-8	PHASE 2 DETAILS
TMP-9	PHASE 3 DETAILS
TMP-10 THRU TMP-11	PHASE 4 DETAILS

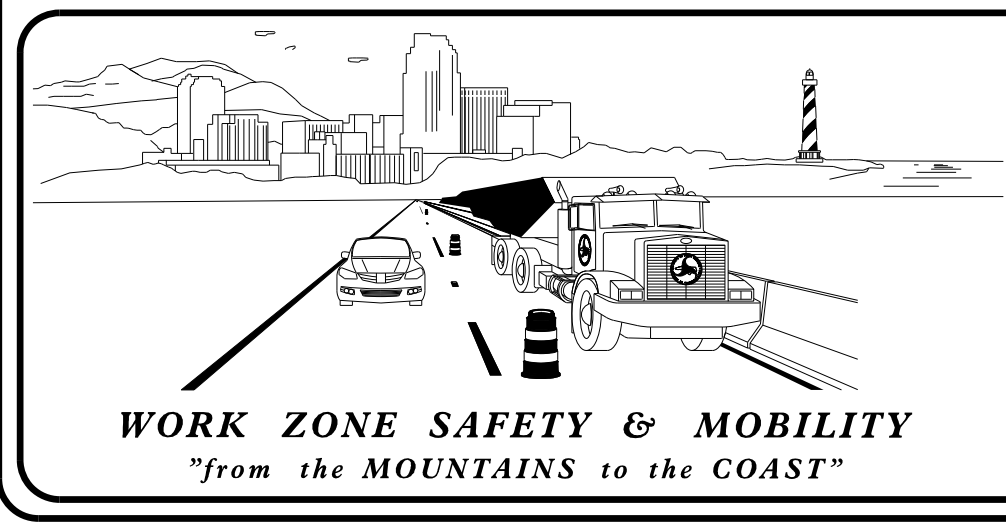
SHEET NO.
TMP-1

U-4713A

TIP PROJECT:



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



PLANS PREPARED BY:

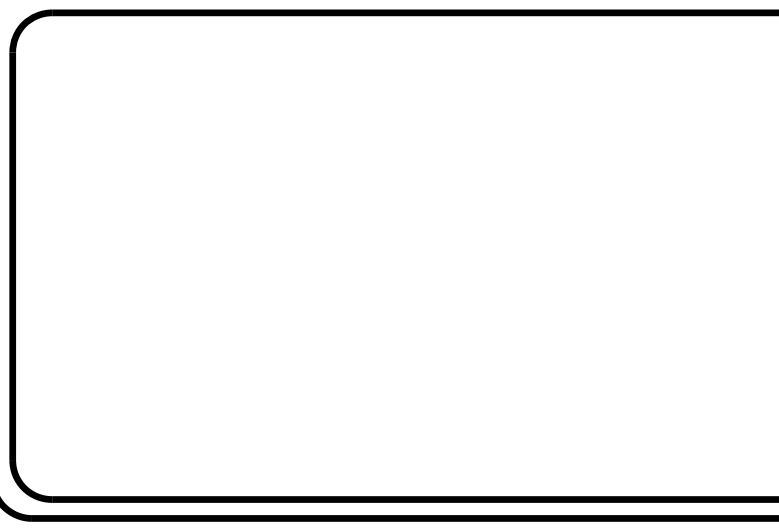
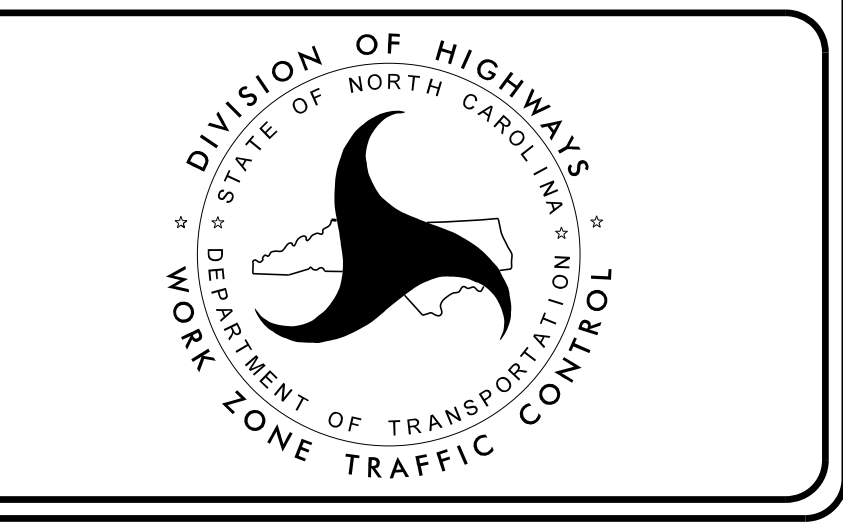
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APPROVED:
DATE: 8/7/2024

\$\$\$\$\$SYTIME\$\$\$\$\$
\$\$\$\$\$DGN\$\$\$\$\$
\$\$\$\$\$USERNAME\$\$\$\$\$

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 2024 ARE APPLICABLE TO THIS PROJECT AND BY REFERENCE HEREBY ARE CONSIDERED A PART OF THESE PLANS:

STD. NO.	TITLE
1101.01	WORK ZONE ADVANCE WARNING SIGNS
1101.02	TEMPORARY LANE CLOSURES
1101.03	TEMPORARY ROAD CLOSURES
1101.04	TEMPORARY SHOULDER CLOSURES
1101.11	TRAFFIC CONTROL DESIGN TABLES
1110.01	STATIONARY WORK ZONE SIGNS
1110.02	PORTABLE WORK ZONE SIGNS
1130.01	DRUM
1135.01	CONES
1145.01	BARRICADES
1150.01	FLAGGING DEVICES
1160.01	TEMPORARY CRASH CUSHION - REFLECTIVE END TREATMENT
1170.01	POSITIVE PROTECTION
1205.01	PAVEMENT MARKINGS - LINE TYPES AND OFFSETS
1205.02	PAVEMENT MARKINGS - TWO-LANE AND MULTI-LANE ROADWAYS
1205.04	PAVEMENT MARKINGS - INTERSECTIONS
1205.05	PAVEMENT MARKINGS - TURN LANES
1205.07	PAVEMENT MARKINGS - PEDESTRIAN CROSSWALKS
1205.09	PAVEMENT MARKINGS - PAINTED ISLANDS
1205.13	PAVEMENT MARKINGS - LANE REDUCTIONS
1251.01	RAISED PAVEMENT MARKERS - PERMANENT & TEMPORARY
1261.01	GUARDRAIL AND BARRIER DELINEATOR SPACING
1261.02	GUARDRAIL AND BARRIER DELINEATOR TYPES
1262.01	GUARDRAIL END DELINEATION
1264.01	OBJECT MARKERS

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
- TEMPORARY PAVEMENT

SIGNALS

- EXISTING
- PROPOSED
- TEMPORARY

PAVEMENT MARKINGS

- EXISTING LINES
- TEMPORARY LINES

TRAFFIC CONTROL DEVICES

- BARRICADE (TYPE III)
- CONE
- TUBULAR MARKER
- SKINNY DRUM
- TEMPORARY CRASH CUSHION
- TEMPORARY PORTABLE CONC. BARRIER
- 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

- P1 - PAINT (4" WHITE, 2X) WHITE EDGE LINE
- P2 - PAINT (4" WHITE, 2X) WHITE SOLID LANE LINE
- P4 - PAINT (4" WHITE, 2X) 3 FT. - 9. FT./SP WHITE MINISKIP
- P10 - PAINT (4" WHITE, 2X) YELLOW EDGE LINE
- P13 - PAINT (4" YELLOW, 2X) YELLOW DOUBLE CENTER
- P46 - PAINT (8" WHITE, 2X) WHITE CROSSWALK LINE
- P61 - PAINT (24" WHITE, 2X) STOP BAR

PAVEMENT MARKING SYMBOLS

- P70 - PAINT 2X (LEFT TURN ARROW)
- P72 - PAINT 2X (STRAIGHT ARROW)
- P74 - PAINT 2X (STRAIGHT/RIGHT COMBO ARROW)
- P75 - PAINT 2X (LEFT/RIGHT COMBO ARROW)

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APPROVED: DATE: 7/2024 		ROADWAY STANDARD DRAWINGS & LEGEND
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MANAGEMENT STRATEGIES

PROPOSED IMPROVEMENTS ALONG -L- MCKEE RD, -Y1- PLEASANT PLAINS ROAD, AND -Y5- EAST JOHN STREET WILL BE CONSTRUCTED WHILE MAINTAINING TRAFFIC AND USING TEMPORARY TRAFFIC PATTERNS WITH TEMPORARY SIGNALS 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:

ROAD NAME	DAY AND TIME RESTRICTIONS
MCKEE ROAD	6:00 AM TO 9:00 AM
PLEASANT PLAINS ROAD	4:00 PM TO 7:00 PM
EAST JOHN STREET	MONDAY THRU FRIDAY

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

ROAD NAME
MCKEE ROAD
PLEASANT PLAINS ROAD
EAST JOHN STREET

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 TO 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 OR MONDAY THEN BETWEEN THE HOURS OF 6:00 A.M. THE THURSDAY BEFORE INDEPENDENCE DAY AND 7:00 P.M. THE TUESDAY AFTER INDEPENDENCE DAY.
- FOR LABOR DAY, BETWEEN THE HOURS OF 6:00 A.M. FRIDAY AND 7:00 P.M. TUESDAY.

TIME RESTRICTIONS (CONT.)

- 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.

C) DO NOT CLOSE ROADS AS FOLLOWS:

ROAD NAME	DAY AND TIME RESTRICTIONS
MCKEE ROAD	ANYTIME UNLESS OTHERWISE DIRECTED BY THE ENGINEER
PLEASANT PLAINS ROAD	
EAST JOHN STREET	

D) DO NOT STOP TRAFFIC AS FOLLOWS, OR AS OTHERWISE DIRECTED BY THE ENGINEER:

ROAD NAME	DAY AND TIME RESTRICTIONS	DURATION AND OPERATION
MCKEE ROAD	6:00 AM TO 9:00 AM	20 MINUTES FOR TRAFFIC SHIFTS, PAVEMENT TIE-INS, AND PAVEMENT MARKING TIE-INS.
PLEASANT PLAINS ROAD	4:00 PM TO 7:00 PM	
EAST JOHN STREET	MONDAY THRU FRIDAY	

E) 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.

LANE AND SHOULDER CLOSURE REQUIREMENTS (CONT.)

H) WHEN PERSONNEL AND/OR EQUIPMENT ARE WORKING ON THE SHOULDER ADJACENT TO AN UNDIVIDED FACILITY AND WITHIN 5 FT OF AN OPEN TRAVEL LANE, CLOSE THE NEAREST OPEN TRAVEL LANE USING ROADWAY STANDARD DRAWING NO. 1101.02 UNLESS THE WORK AREA IS PROTECTED BY BARRIER OR GUARDRAIL.

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.

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.

Kimley»Horn

<p>DocuSigned by: <i>Frank D. Masterson, Jr.</i> DATE: 8/14/2024</p> <p>APPROVED: _____ DATE: _____</p>			<p>TRANSPORTATION OPERATIONS PLAN</p>
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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.
- N) COVER OR REMOVE ALL SIGNS AND DEVICES REQUIRED TO CLOSE THE ROAD WHEN ROAD CLOSURE 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>
-L- MCKEE ROAD	PAINT	NONE
-Y1- PLEASANT PLAINS ROAD	PAINT	NONE
-Y2- BILTMORE FOREST DRIVE	PAINT	NONE
-Y3- POPLAR KNOLL DRIVE	PAINT	NONE
-Y4- HOLLY RIDGE DRIVE	PAINT	NONE
-Y5- EAST JOHN STREET	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 PROPOSED MONOLITHIC ISLAND AND PEDESTRIAN REFUGE 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

TEMPORARY BARRIER

- Y) 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.

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.

- Z) 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)


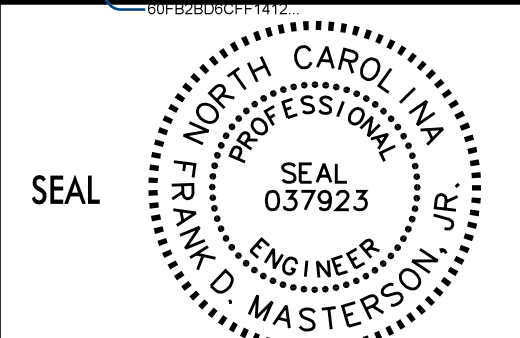
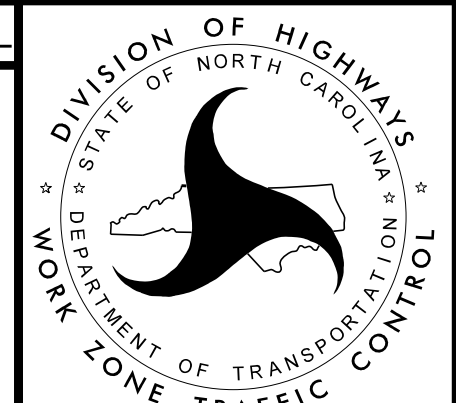
POSTED SPEED LIMIT	MINIMUM OFFSET
40 OR LESS	15 FT
45 - 50	20 FT
55	25 FT
60 MPH or HIGHER	30 FT

MISCELLANEOUS

- AA) LAW ENFORCEMENT MAY BE USED TO MAINTAIN TRAFFIC THROUGH THE WORK AREA AND/OR INTERSECTIONS AS DIRECTED BY THE ENGINEER.
- AB) 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.
- AC) 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 BE THE ENGINEER) AT ALL LOCATIONS WHERE THE OPEN PEDESTRIAN TRAVELWAY HAS BEEN REMOVED FOR CONSTRUCTION OPERATIONS (UTILITIES, DRAINAGE, ETC.)

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APPROVED:  DATE: 2024 		<h2 style="margin: 0;">TRANSPORTATION OPERATIONS PLAN</h2>
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PROJ. REFERENCE NO.	SHEET NO.
U- 4713A	TMP- 2

CONSTRUCTION PHASING

PHASE 1

STEP 1:

INSTALL ADVANCED WARNING SIGNS AND ROAD CLOSURE BARRIERS IN ACCORDANCE WITH RSD 1101.01 (SHEET 3 OF 3) AS SHOWN ON SHEETS TMP-3 THRU TMP-6

STEP 2:

AWAY FROM TRAFFIC, WHILE MAINTAINING EXISTING TRAFFIC PATTERNS AND ACCESS TO ALL PROPERTIES, CONSTRUCT NEW SEGMENTS OF -L- MCKEE ROAD, -Y2- BILTMORE FOREST DRIVE, -Y3- POPLAR KNOLL DRIVE, AND -Y4- HOLLY RIDGE UP TO BUT NOT INCLUDING THE FINAL LIFT AS SHOWN ON SHEETS TMP-3 THRU TMP-6. USE LANE CLOSURES AND FLAGGER CONTROL USING RSD 1101.02 (SHEET 1 OF 19) AS NEEDED.

STEP 3:

COMPLETE ANY ADDITIONAL WORK ON -Y2- BILTMORE FOREST DRIVE, -Y3- POPLAR KNOLL DRIVE, AND -Y4- HOLLY RIDGE AND TIE NEW SEGMENTS INTO THE END OF EACH EXISTING ROAD USING RSD 1101.03 (SHEET 2 OF 9). ALSO COMPLETE TIE IN OF NEW -L- MCKEE ROAD INTO EAST JOHN STREET AS SEEN ON TMP-6. USE LANE CLOSURES AND FLAGGER CONTROL USING RSD 1101.02 (SHEET 1 OF 19) AS NEEDED.

STEP 4:

INSTALL PHASE 2 TEMPORARY TRAFFIC SIGNAL PRIOR TO PHASE 2. BAG SIGNAL HEADS UNTIL TRAFFIC IS SHIFTED TO PHASE 2 PATTERN. THIS WORK MAY BE PERFORMED CONCURRENTLY WITH OTHER STEPS FROM PHASE 1 AS REQUIRED.

NOTES:

- PROVIDE WEDGING AS NECESSARY TO MAINTAIN POSITIVE DRAINAGE.
- MAINTAIN ACCESS OR PROVIDE TEMPORARY ACCESS TO ALL RESIDENTIAL DRIVEWAYS DURING CONSTRUCTION.
- MAINTAIN PEDESTRIAN ACCOMODATIONS AT INTERSECTION USING COMBINATION OF NEW AND EXISTING FACILITIES. INSTALL AUDIBLE WARNING DEVICES TO ALL TEMPORARY PEDESTRIAN CROSSINGS.

PHASE 2

STEP 1:

PLACE TEMPORARY PAVEMENT MARKINGS AS SHOWN ON TMP-7 AND TMP-8 USING LANE CLOSURES AND FLAGGER CONTROL USING RSD 1101.02 (SHEET 1 OF 19) AS NEEDED. IMPLEMENT TRAFFIC SHIFT TO THE RIGHT SIDE OF -L- MCKEE ROAD AS SHOWN IN PHASE 2 TYPICAL SECTION E-E AND THE LEFT SIDE OF -Y1- PLEASANT PLAINS ROAD AS SHOWN IN PHASE 2 TYPICAL SECTION F-F. REMOVE BAGS FROM SIGNAL HEADS AND ACTIVATE TEMPORARY SIGNAL.

STEP 2:

AWAY FROM TRAFFIC AND BEHIND BARRELS CONSTRUCT TEMPORARY PAVEMENT ON THE LEFT SIDE OF -L- MCKEE ROAD AS SEEN ON TMP-7. USE LANE CLOSURES AND FLAGGER CONTROL USING RSD 1101.02 (SHEET 1 OF 19) AS NEEDED. CONNECT NEW SIDEWALK TO EXISTING SIDEWALK AT THE SW CORNER OF -L- MCKEE ROAD AND -Y1- PLEASANT PLAINS ROAD. AWAY FROM TRAFFIC AND BEHIND BARRELS CONSTRUCT WIDENING OF -Y1- PLEASANT PLAINS ROAD. ALSO COMPLETE TIE IN OF NEW -L- MCKEE ROAD INTO WIDENED -Y1- PLEASANT PLAINS ROAD AS SEEN ON TMP-7 AND TMP-8.

STEP 3:

AWAY FROM TRAFFIC, CONSTRUCT NEW DRAINAGE STRUCTURES AND TEMPORARY DITCHES AS SHOWN ON TMP-7 USING LANE CLOSURES AND FLAGGER CONTROL USING RSD 1101.02 (SHEET 1 OF 19) AS NEEDED. CONTRACTOR IS TO ENSURE THERE IS POSITIVE DRAINAGE WITH NEW TEMPORARY PAVMENT ADDED.

STEP 4:

INSTALL TEMPORARY TRAFFIC SIGNAL AT THE INTERSECTION OF -L- MCKEE ROAD AND -Y1- PLEASANT PLAINS ROAD AS SHOWN ON TMP-9 PRIOR TO PHASE 3. BAG SIGNAL HEADS UNTIL TRAFFIC IS SHIFTED TO PHASE 3 PATTERN.

NOTES:

- STEP 2 AND STEP 3 MAY BE PERFORMED CONCURRENTLY AS REQUIRED.
- PROVIDE WEDGING AS NECESSARY TO MAINTAIN POSITIVE DRAINAGE.
- MAINTAIN PEDESTRIAN ACCOMODATIONS AT INTERSECTION USING COMBINATION OF NEW AND EXISTING FACILITIES. INSTALL AUDIBLE WARNING DEVICES TO ALL TEMPORARY PEDESTRIAN CROSSINGS.

PHASE 3

STEP 1:

PLACE TEMPORARY PAVEMENT MARKINGS AS SHOWN ON TMP-9 USING LANE CLOSURES AND FLAGGER CONTROL USING RSD 1101.02 (SHEET 1 OF 19) AS NEEDED. IMPLEMENT TRAFFIC SHIFT TO THE LEFT SIDE OF -L- MCKEE ROAD AS SHOWN IN PHASE 3 TYPICAL SECTION H-H USING THE NEW TEMPORARY PAVEMENT PLACED IN PHASE 2. REMOVE BAGS FROM SIGNAL HEADS AND ACTIVATE TEMPORARY SIGNAL. TEMPORARY BARRIER IS TO BE USED AT THE TOP OF SLOPES THAT EXCEED NCDOT FILL SLOPE RESTRICTIONS.

STEP 2:

AWAY FROM TRAFFIC AND BEHIND BARRELS CONSTRUCT PAVEMENT ON THE RIGHT SIDE OF -L- MCKEE ROAD AS SEEN ON TMP-9. USE LANE CLOSURES AND FLAGGER CONTROL USING RSD 1101.02 (SHEET 1 OF 19) AS NEEDED.

STEP 3:

AWAY FROM TRAFFIC, CONSTRUCT NEW DRAINAGE STRUCTURES AND TEMPORARY DITCHES AS SHOWN ON TMP-9. CONTRACTOR IS TO ENSURE THERE IS POSITIVE DRAINAGE WITH NEW PAVMENT ADDED. LAW ENFORCEMENT TO MANGE TRAFFIC SURROUNDING WORK AREA DURING DRAINAGE INSTALLATION.

STEP 4:

INSTALL TEMPORARY TRAFFIC SIGNAL AT THE INTERSECTION OF -L- MCKEE ROAD AND -Y1- PLEASANT PLAINS ROAD AS SHOWN ON TMP-10 PRIOR TO PHASE 4. BAG SIGNAL HEADS UNTIL TRAFFIC IS SHIFTED TO PHASE 4 PATTERN.

NOTES:

- STEP 2 AND STEP 3 MAY BE PERFORMED CONCURRENTLY AS REQUIRED.
- PROVIDE WEDGING AS NECESSARY TO MAINTAIN POSITIVE DRAINAGE.
- MAINTAIN ACCESS OR PROVIDE TEMPORARY ACCESS TO ALL RESIDENTIAL DRIVEWAYS DURING CONSTRUCTION.
- MAINTAIN PEDESTRIAN ACCOMODATIONS AT INTERSECTION USING COMBINATION OF NEW AND EXISTING FACILITIES. INSTALL AUDIBLE WARNING DEVICES TO ALL TEMPORARY PEDESTRIAN CROSSINGS.

PHASE 4

STEP 1:

PLACE TEMPORARY PAVEMENT MARKINGS AS SHOWN ON TMP-10 USING LANE CLOSURES AND FLAGGER CONTROL USING RSD 1101.02 (SHEET 1 OF 19) AS NEEDED. IMPLEMENT TRAFFIC SHIFT TO THE RIGHT SIDE OF -L- MCKEE ROAD AS SHOWN IN PHASE 4 TYPICAL SECTION J-J USING THE NEW PAVEMENT PLACED IN PHASE 3. ALSO IMPLEMENT TRAFFIC SHIFT USING TO THE LEFT SIDE OF -Y1- PLEASANT PLAINS ROAD AS SHOWN IN PHASE 4 TYPICAL SECTION K-K. REMOVE BAGS FROM SIGNAL HEADS AND ACTIVATE TEMPORARY SIGNAL. REMOVE TEMPORARY PEDESTRIAN PATH.

STEP 2:

AWAY FROM TRAFFIC AND BEHIND BARRELS, USING LANE CLOSURES AND FLAGGER CONTROL USING RSD 1101.02 (SHEET 1 OF 19) AS NEEDED. REMOVE EXISTING PAVEMENT AND CONSTRUCT NEW DRAINAGE STRUCTURES, THE NEW LEFT SIDE OF -L- MCKEE ROAD AND THE RIGHT SIDE OF -Y1- PLEASANT PLAINS ROAD AS SEEN ON TMP-10.

STEP 3:

AWAY FROM TRAFFIC REMOVE EXISTING SIDEWALK ALONG LEFT SIDE OF -L- MCKEE ROAD AS SHOWN ON TMP-10. CONSTRUCT SIDEWALK AND NEW CURB RAMP ALONG -L- MCKEE ROAD FROM STA. 16+59 TO STA. 20+93.

STEP 4:

INSTALL TEMPORARY TRAFFIC SIGNAL AT THE INTERSECTION OF -L- MCKEE ROAD AND -Y1- PLEASANT PLAINS ROAD AS SHOWN ON TMP-11 PRIOR TO PHASE 5. BAG SIGNAL HEADS UNTIL TRAFFIC IS SHIFTED TO PHASE 5 PATTERN.

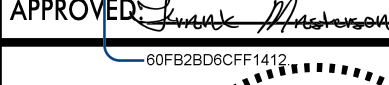


NOTES:

- STEP 2 AND STEP 3 MAY BE PERFORMED CONCURRENTLY AS REQUIRED.
- PROVIDE WEDGING AS NECESSARY TO MAINTAIN POSITIVE DRAINAGE.
- MAINTAIN ACCESS OR PROVIDE TEMPORARY ACCESS TO ALL RESIDENTIAL DRIVEWAYS DURING CONSTRUCTION.
- MAINTAIN PEDESTRIAN ACCOMMODATIONS AT INTERSECTION USING NEW FACILITIES. INSTALL AUDIBLE WARNING DEVICES TO ALL TEMPORARY PEDESTRIAN CROSSINGS.

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7/26/2024

Kimley»Horn

<p>APPROVED:  DATE: 7/2024</p> <p style="text-align: center;">SEAL </p>	<p style="text-align: center;">  DIVISION OF HIGHWAYS STATE OF NORTH CAROLINA DEPARTMENT OF TRANSPORTATION WORK ZONE TRAFFIC CONTROL </p>	<h1 style="margin: 0;">PHASING</h1>
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CONSTRUCTION PHASING (CONT.)

PHASE 5

STEP 1:

PLACE TRAFFIC INTO TEMPORARY PATTERN AND ACTIVATE SIGNAL. BEHIND BARRELS INSTALL CONCRETE ISLAND AT THE INTERSECTION OF -L- MCKEE ROAD AND -Y1- PLEASANT PLAINS ROAD AS SHOWN ON TMP-11. LAW ENFORCEMENT TO MANAGE TRAFFIC SURROUNDING WORK AREA.

STEP 2:

INSTALL PERMANENT TRAFFIC SIGNAL AT THE INTERSECTION OF -L- MCKEE ROAD AND -Y1- PLEASANT PLAINS ROAD AND -L- MCKEE ROAD AND -Y5- EAST JOHN STREET AS SHOWN ON SIGNAL PLANS. BAG SIGNAL HEADS UNTIL TRAFFIC IS SHIFTED TO FINAL PATTERN.

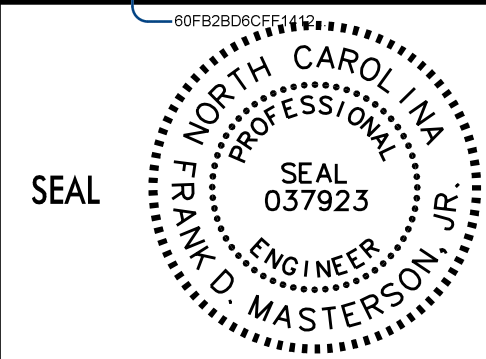
STEP 3:

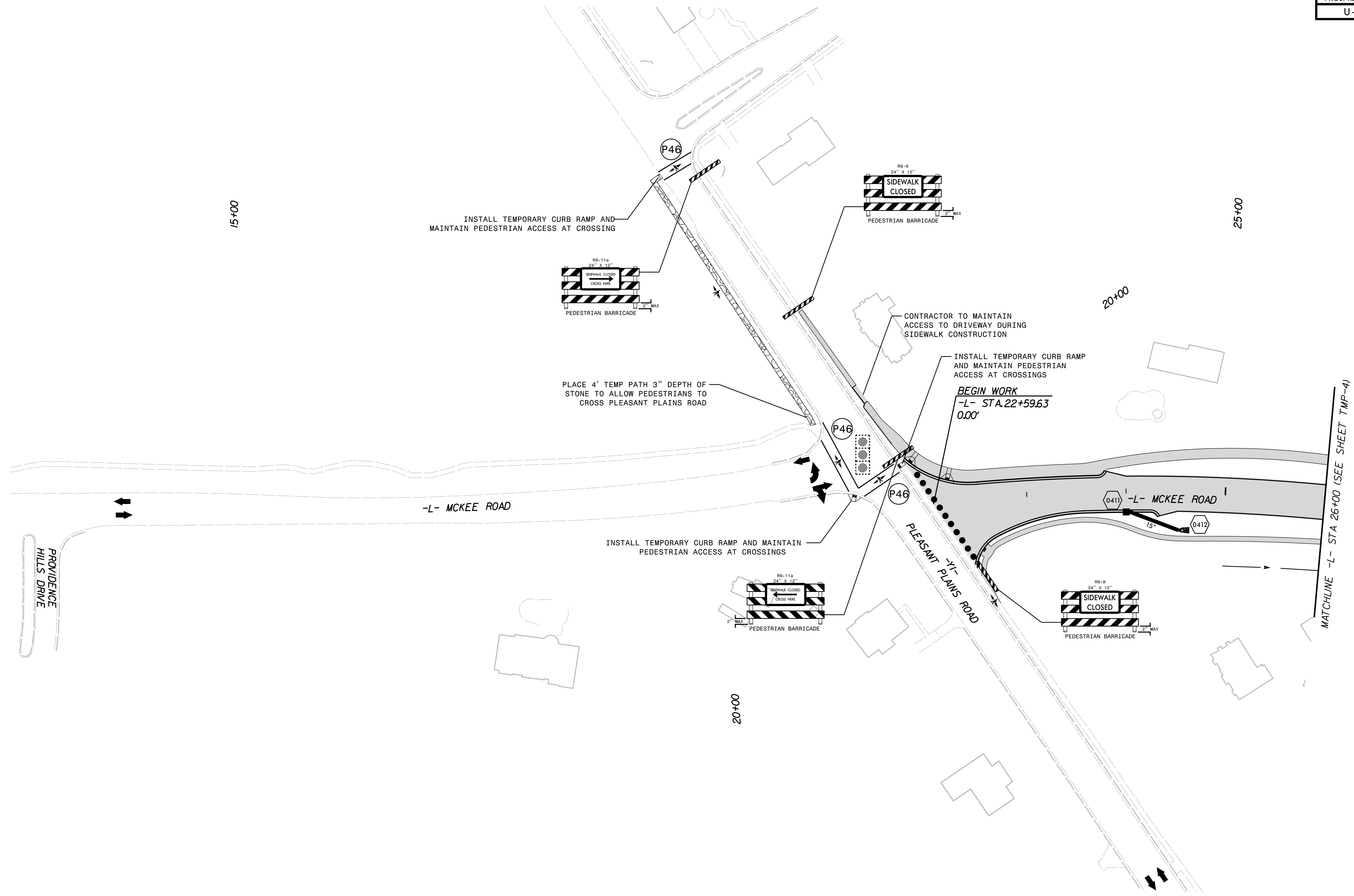
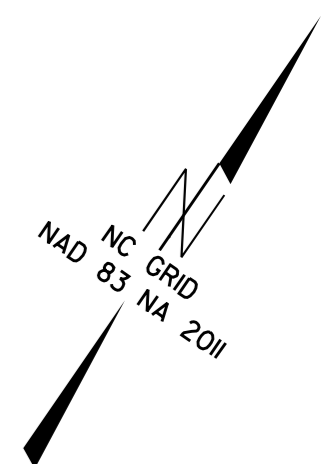
CONSTRUCT FINAL LIFT OF PAVEMENT ON ALL ALIGNMENTS. PLACE FINAL PAVEMENT MARKINGS, ACTIVATE PERMANENT SIGNAL AND OPEN NEWLY CONSTRUCTED MCKEE RD. REMOVE ALL TRAFFIC CONTROL DEVICES.

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7/26/2024

Kimley»Horn

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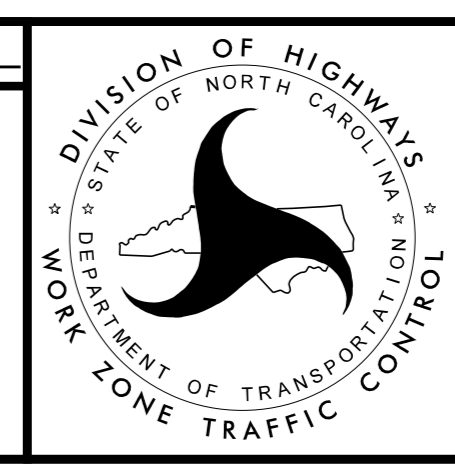


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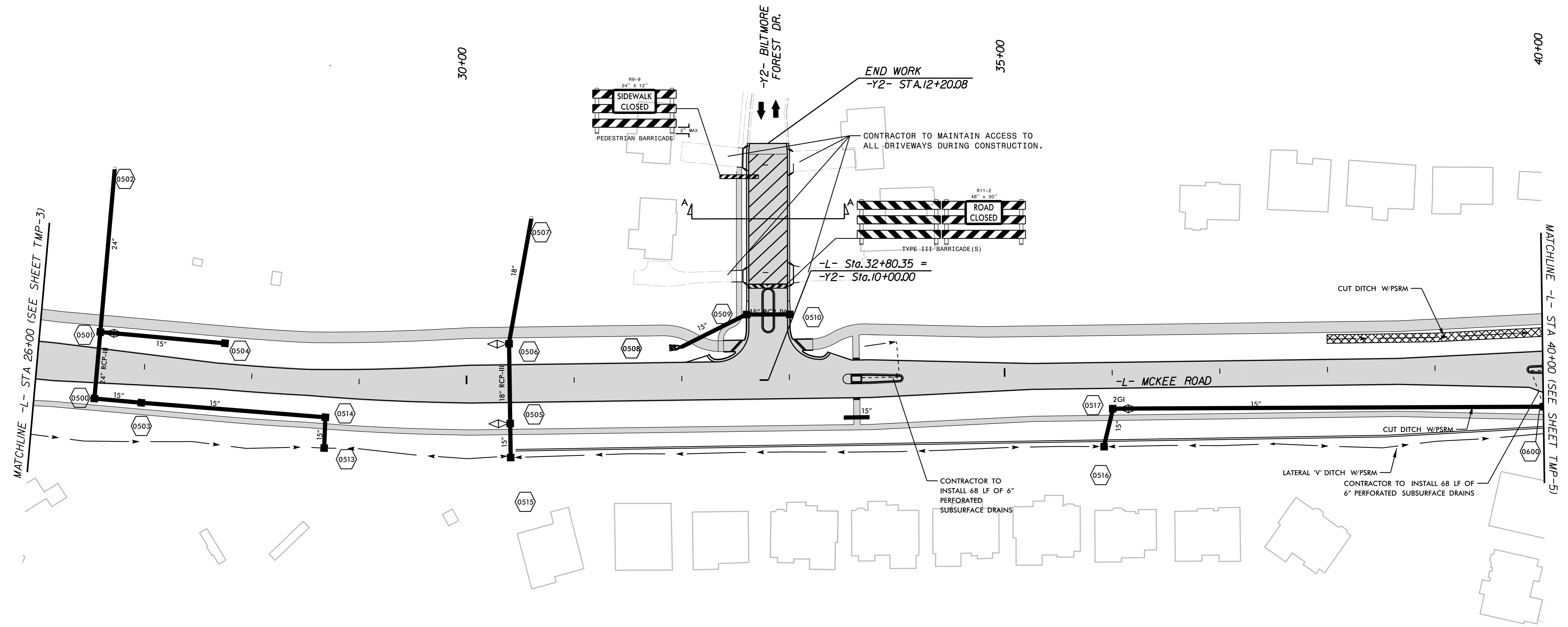
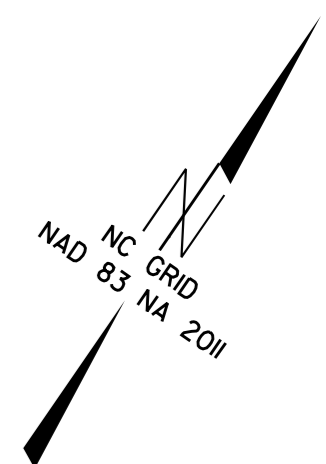
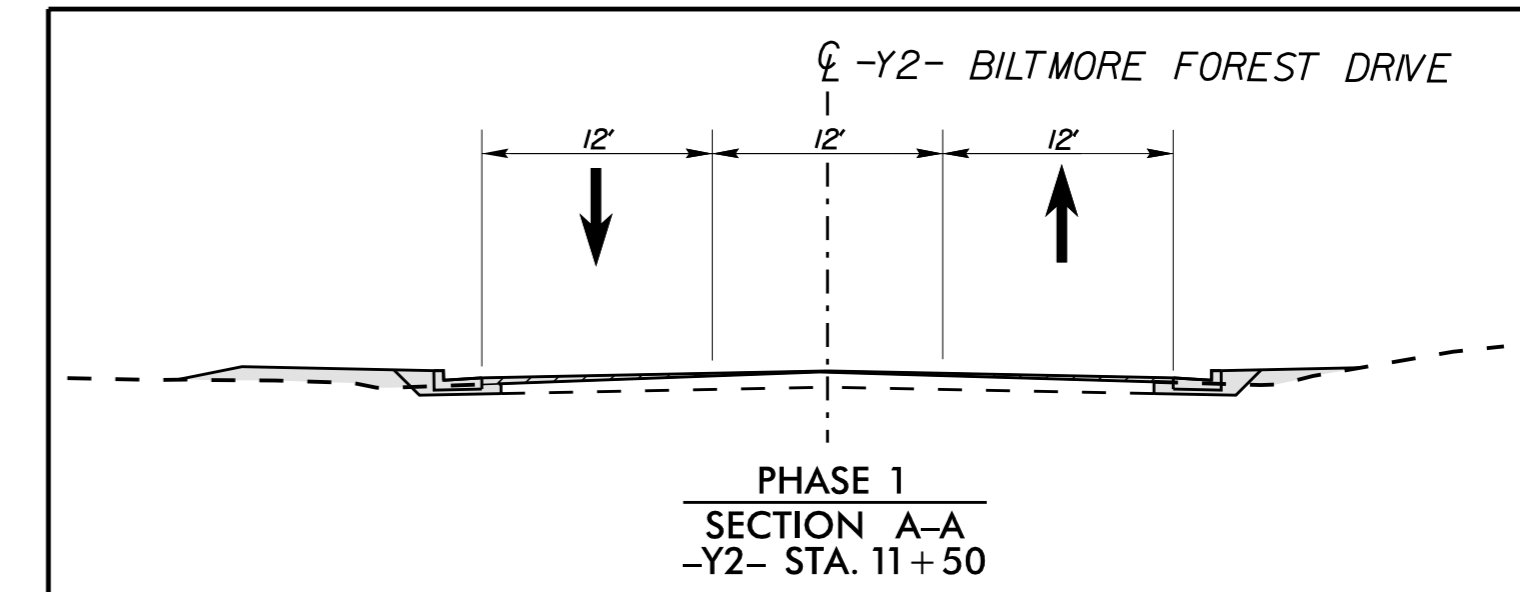


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 ENGINEER: FRANK D. MASTERSON, JR.
 NORTH CAROLINA PROFESSIONAL ENGINEER



**PHASE 1
TRAFFIC CONTROL
DETAILS**

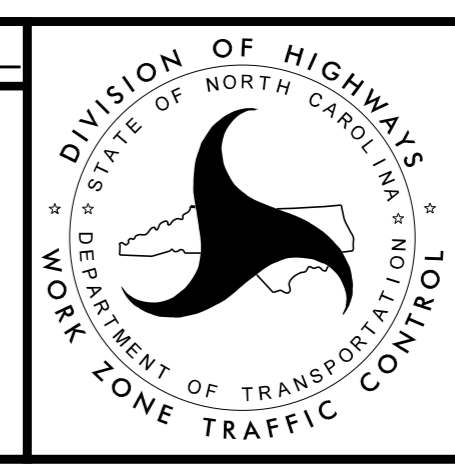


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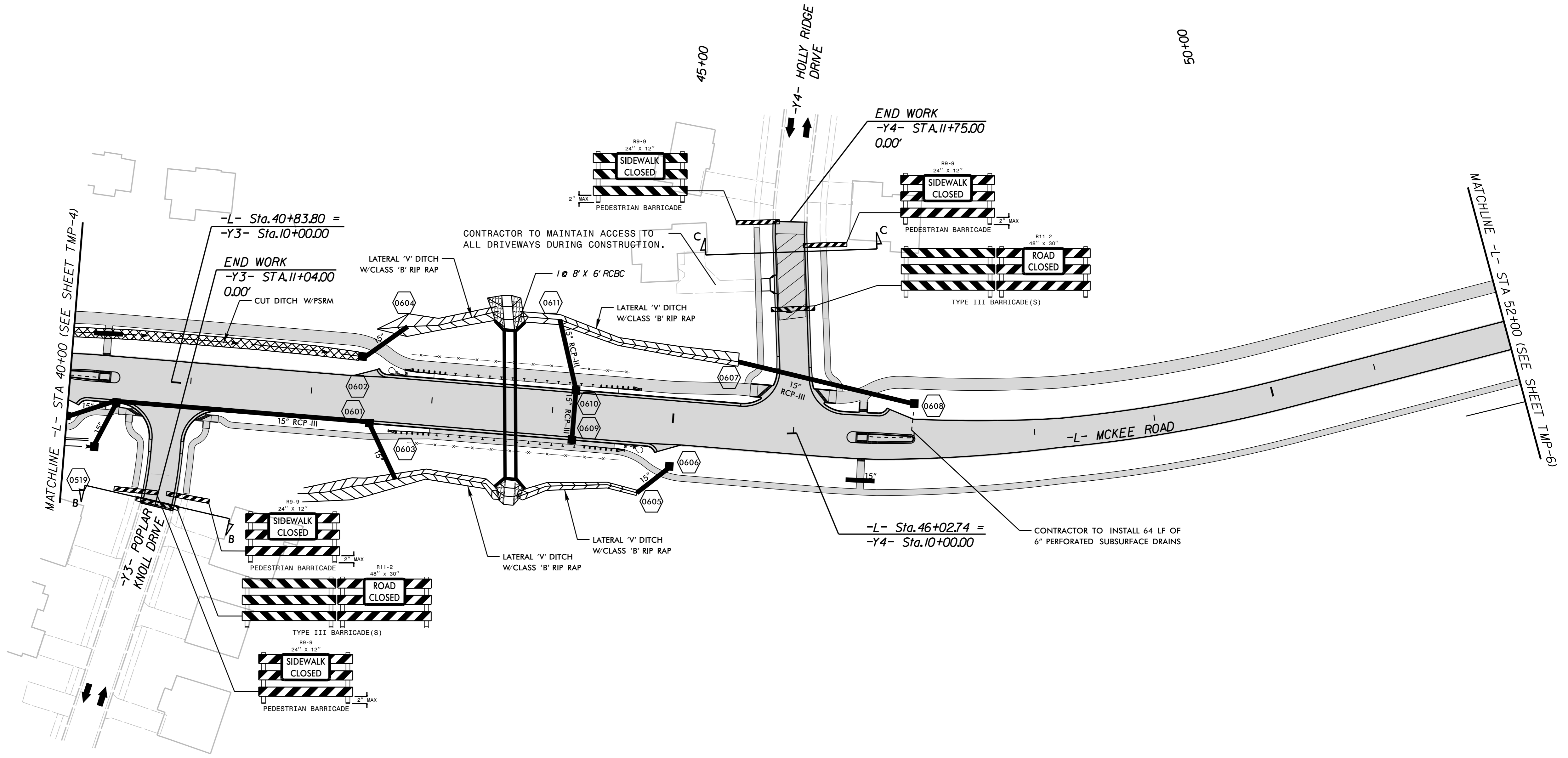
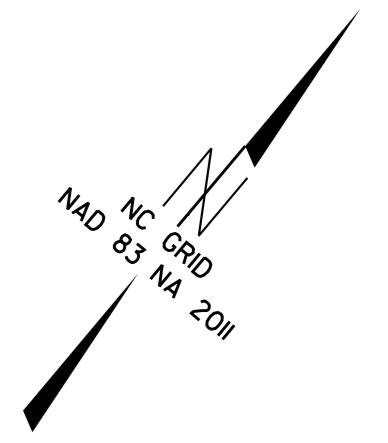
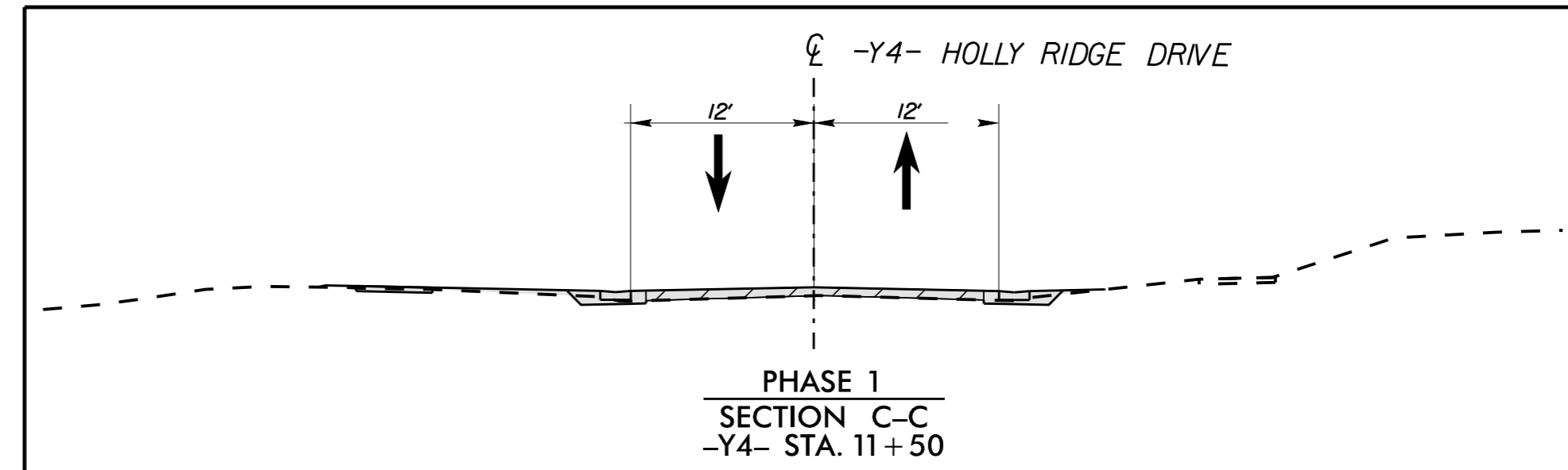
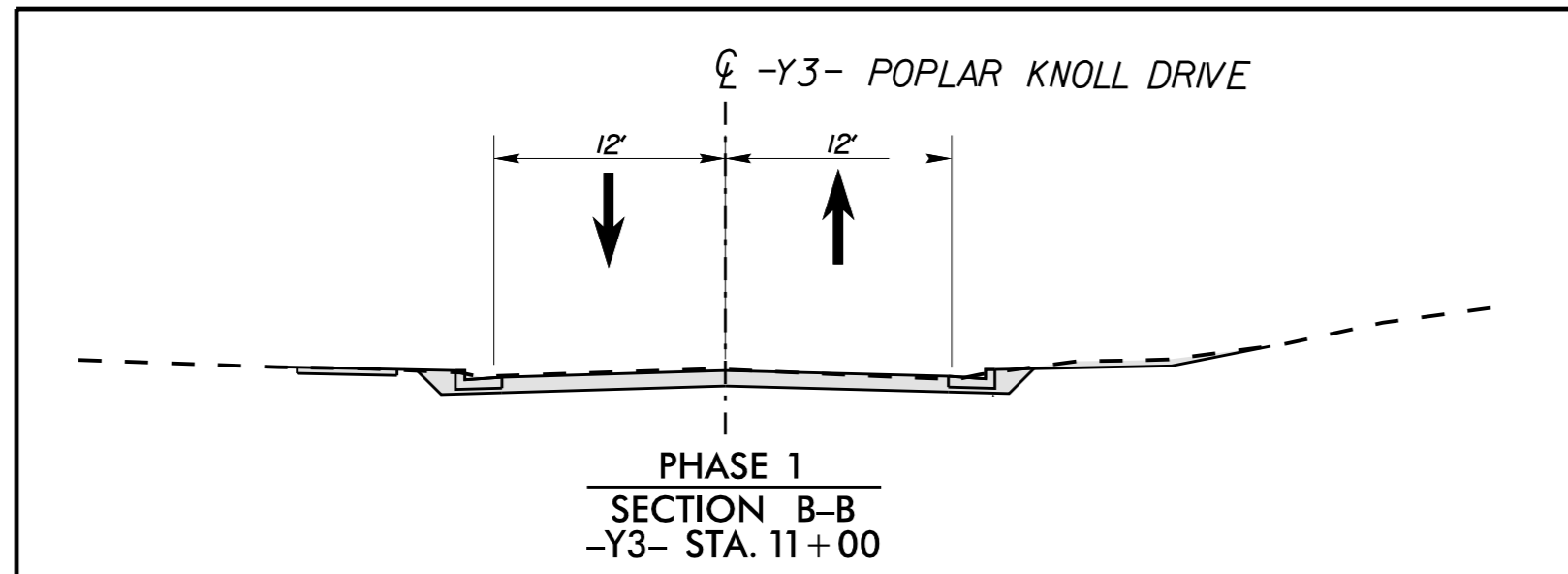


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ENGINEER
NORTH CAROLINA PROFESSIONAL



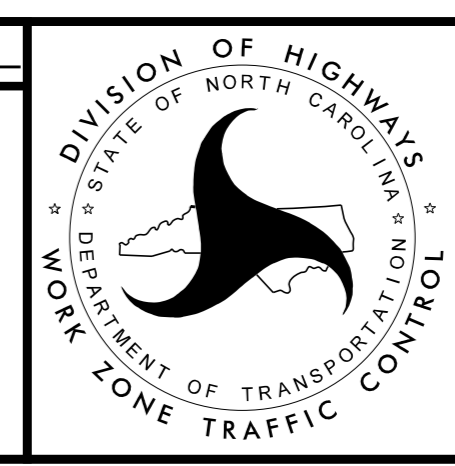
**PHASE 1
TRAFFIC CONTROL
DETAILS**



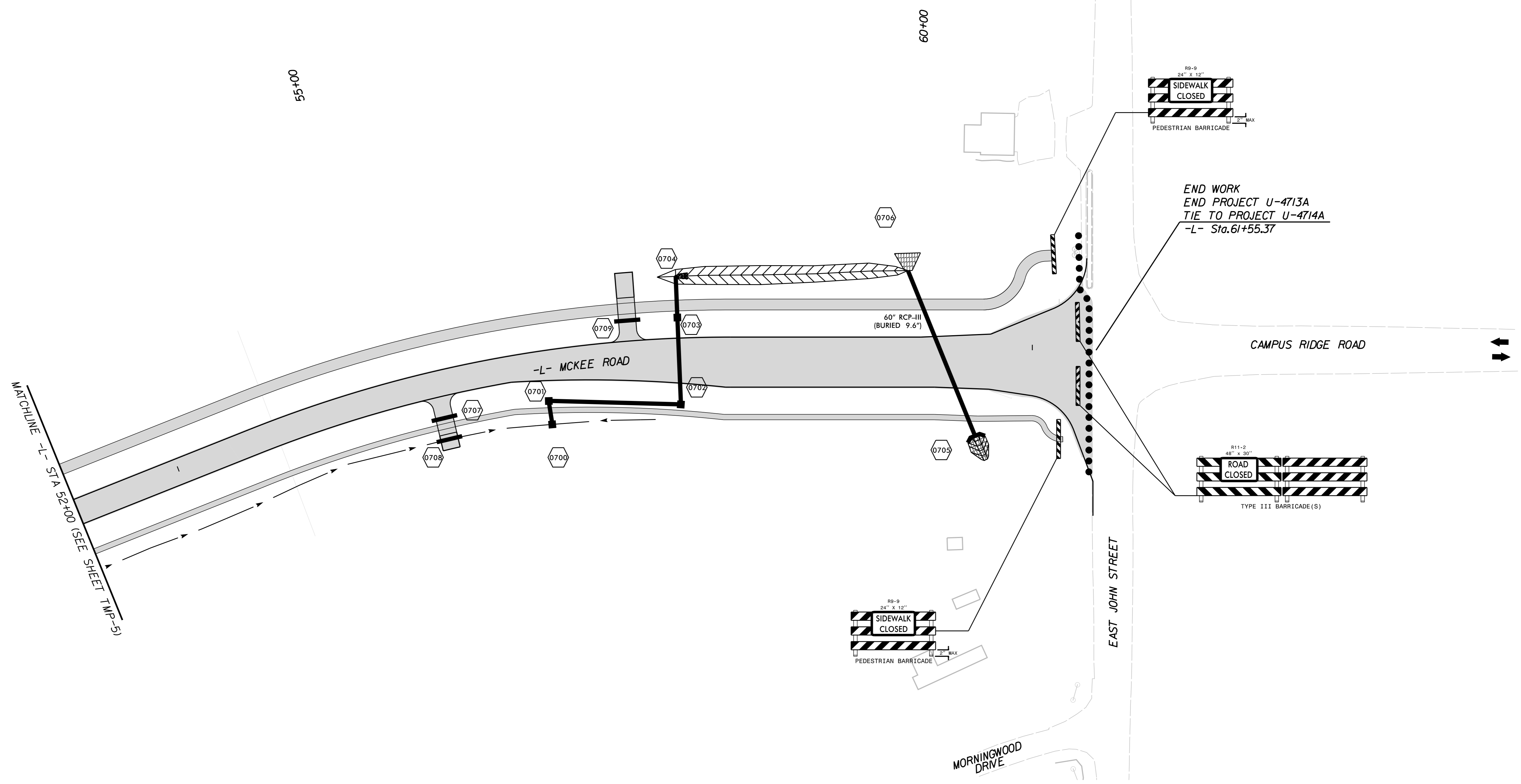
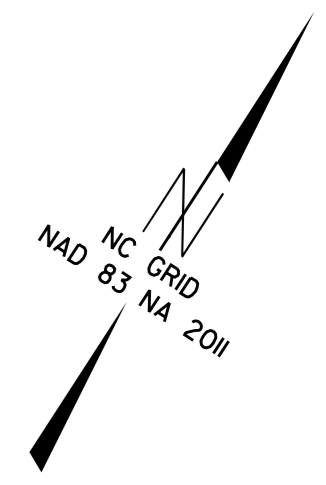
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**PHASE 1
TRAFFIC CONTROL
DETAILS**



MATCHLINE
 -L- STA 52+00 (SEE SHEET TMP-5)

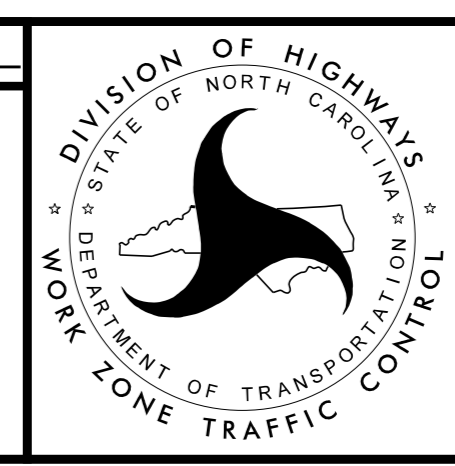
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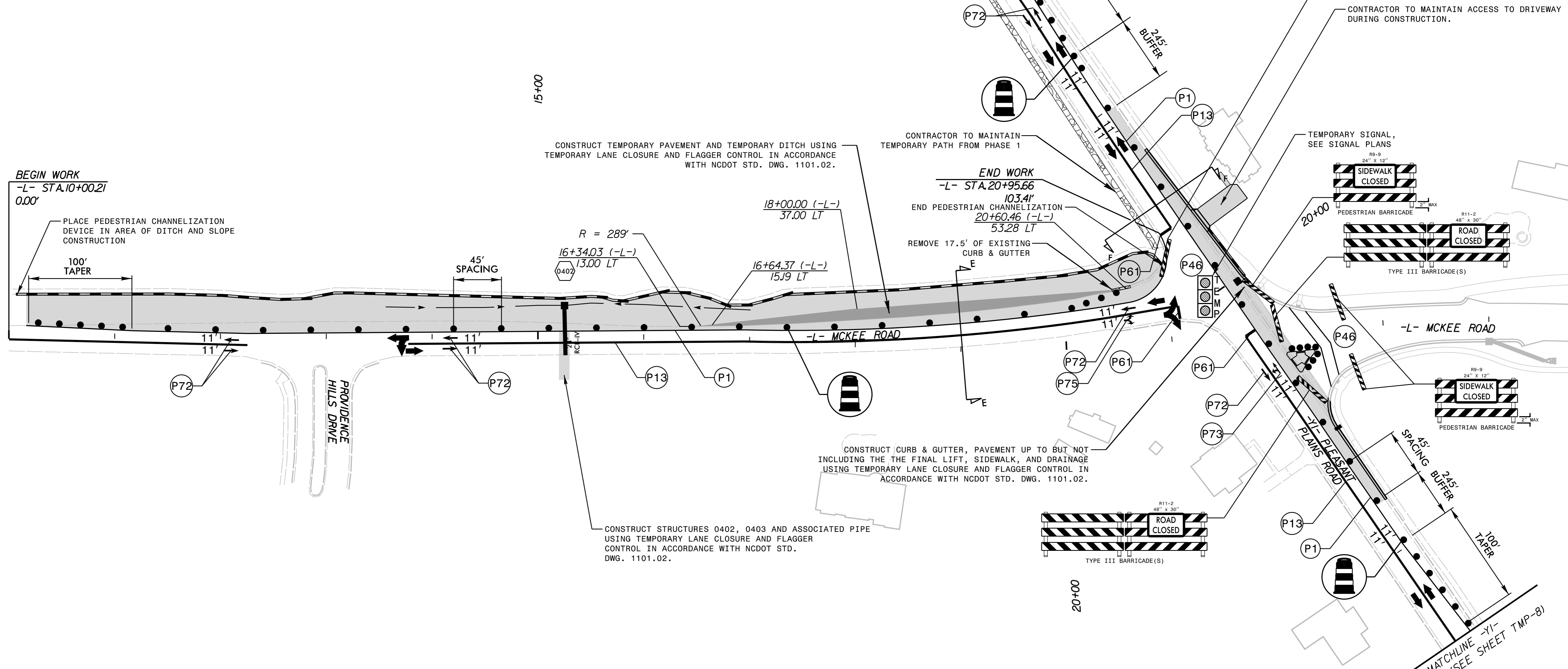
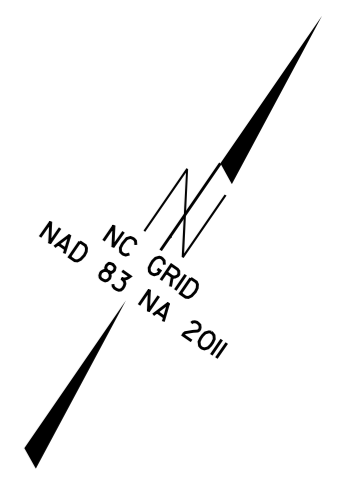
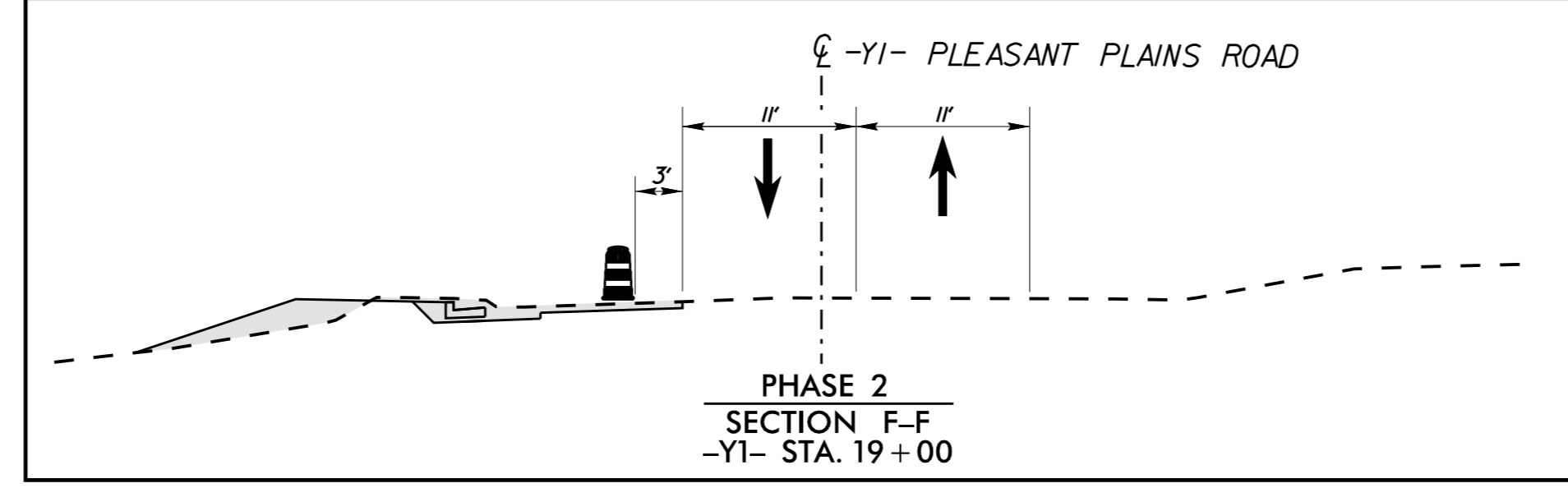


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 ENGINEER
 SEAL 037923
 NORTH CAROLINA PROFESSIONAL



**PHASE 1
 TRAFFIC CONTROL
 DETAILS**



BEGIN WORK
-L- STA. 10+00.21
0.00'
PLACE PEDESTRIAN CHANNELIZATION DEVICE IN AREA OF DITCH AND SLOPE CONSTRUCTION

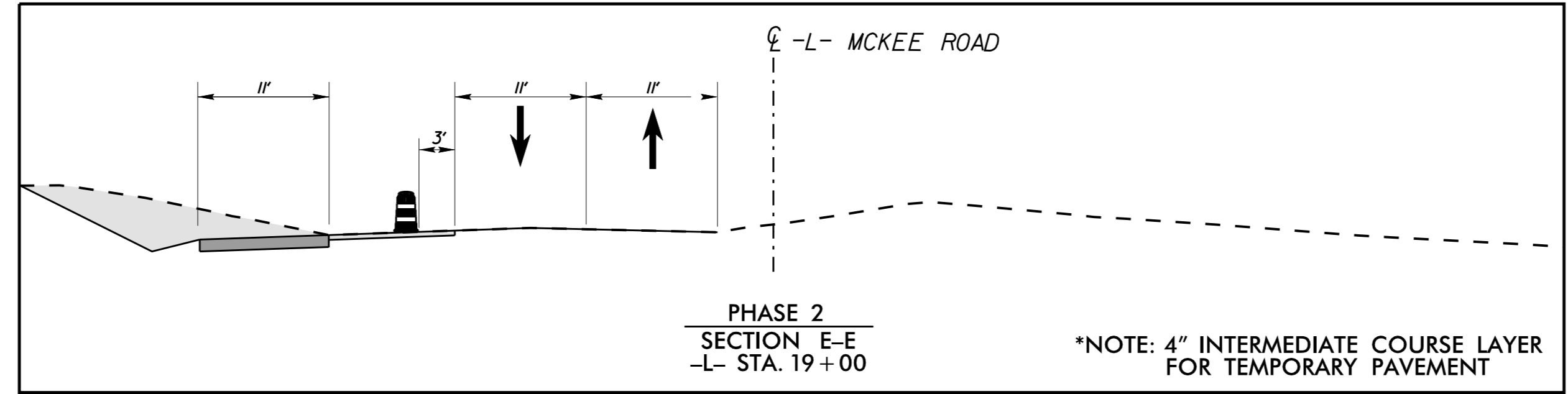
CONSTRUCT TEMPORARY PAVEMENT AND TEMPORARY DITCH USING TEMPORARY LANE CLOSURE AND FLAGGER CONTROL IN ACCORDANCE WITH NCDOT STD. DWG. 1101.02.

CONTRACTOR TO MAINTAIN TEMPORARY PATH FROM PHASE 1

END WORK
-L- STA. 20+95.66
103.41'
END PEDESTRIAN CHANNELIZATION
20+60.46 (-L-)
53.28 LT
REMOVE 17.5' OF EXISTING CURB & GUTTER

CONSTRUCT CURB & GUTTER, PAVEMENT UP TO BUT NOT INCLUDING THE FINAL LIFT, SIDEWALK, AND DRAINAGE USING TEMPORARY LANE CLOSURE AND FLAGGER CONTROL IN ACCORDANCE WITH NCDOT STD. DWG. 1101.02.

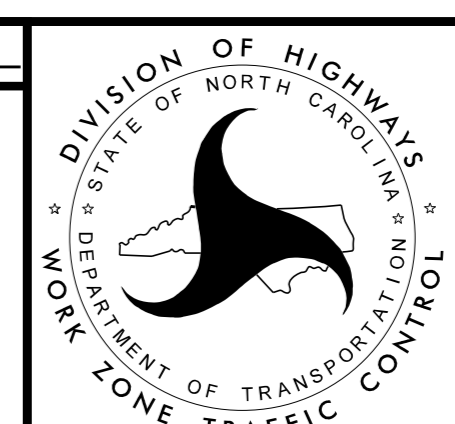
CONSTRUCT STRUCTURES 0402, 0403 AND ASSOCIATED PIPE USING TEMPORARY LANE CLOSURE AND FLAGGER CONTROL IN ACCORDANCE WITH NCDOT STD. DWG. 1101.02.



*NOTE: 4" INTERMEDIATE COURSE LAYER FOR TEMPORARY PAVEMENT

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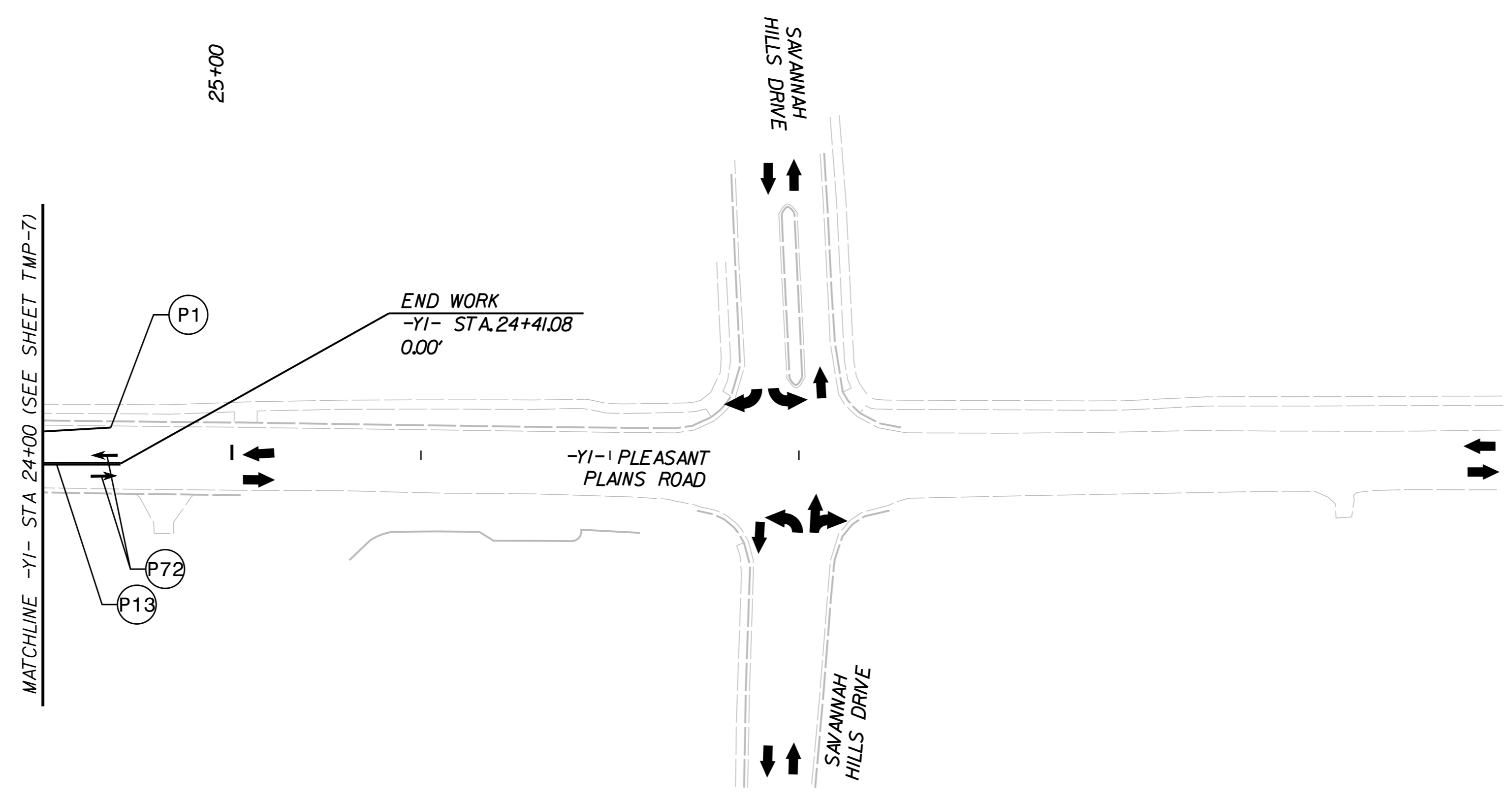
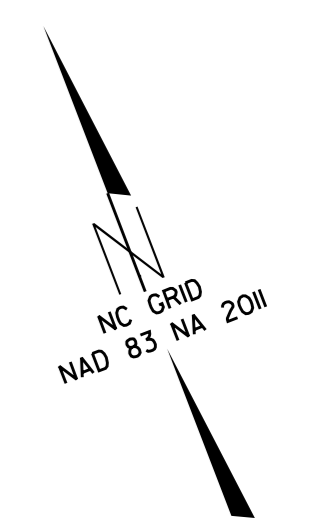
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PHASE 2 TRAFFIC CONTROL DETAILS



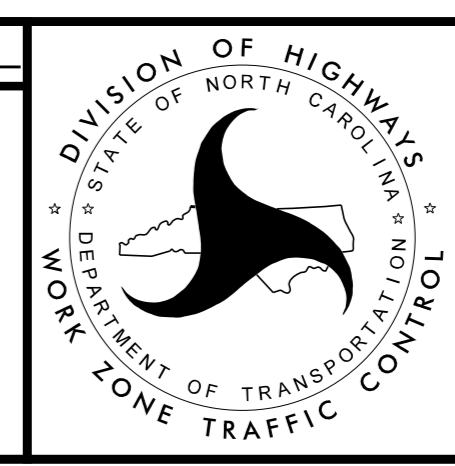
PROJ. REFERENCE NO.	SHEET NO.
U-4713A	TMP-8



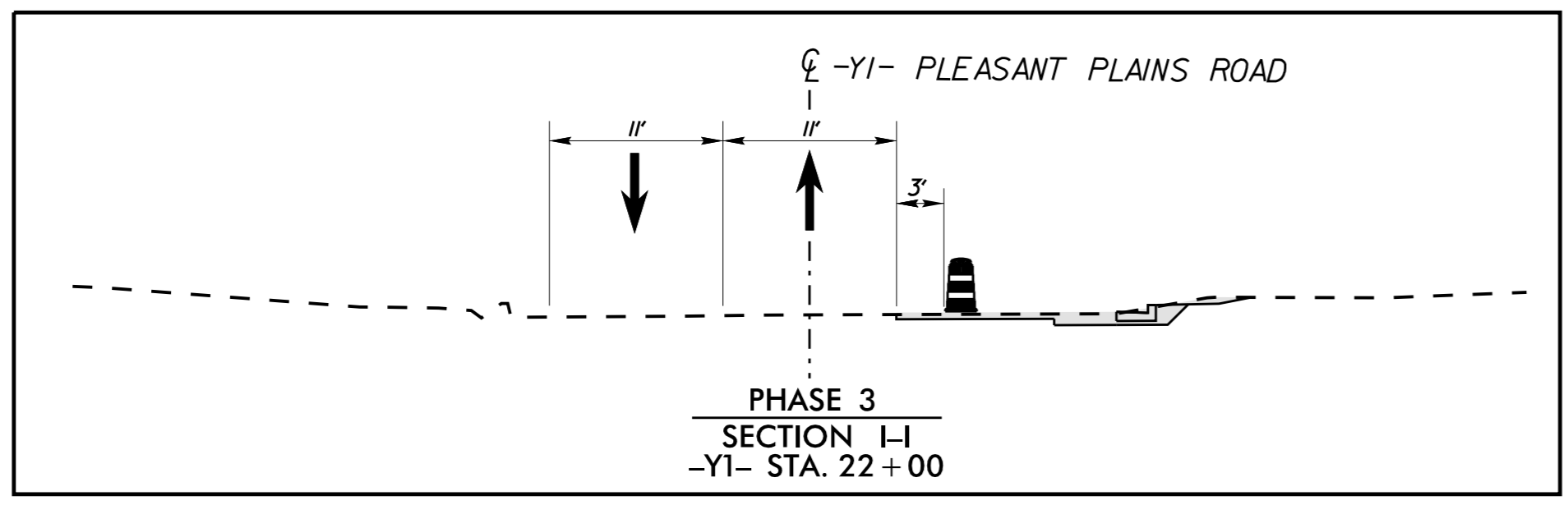
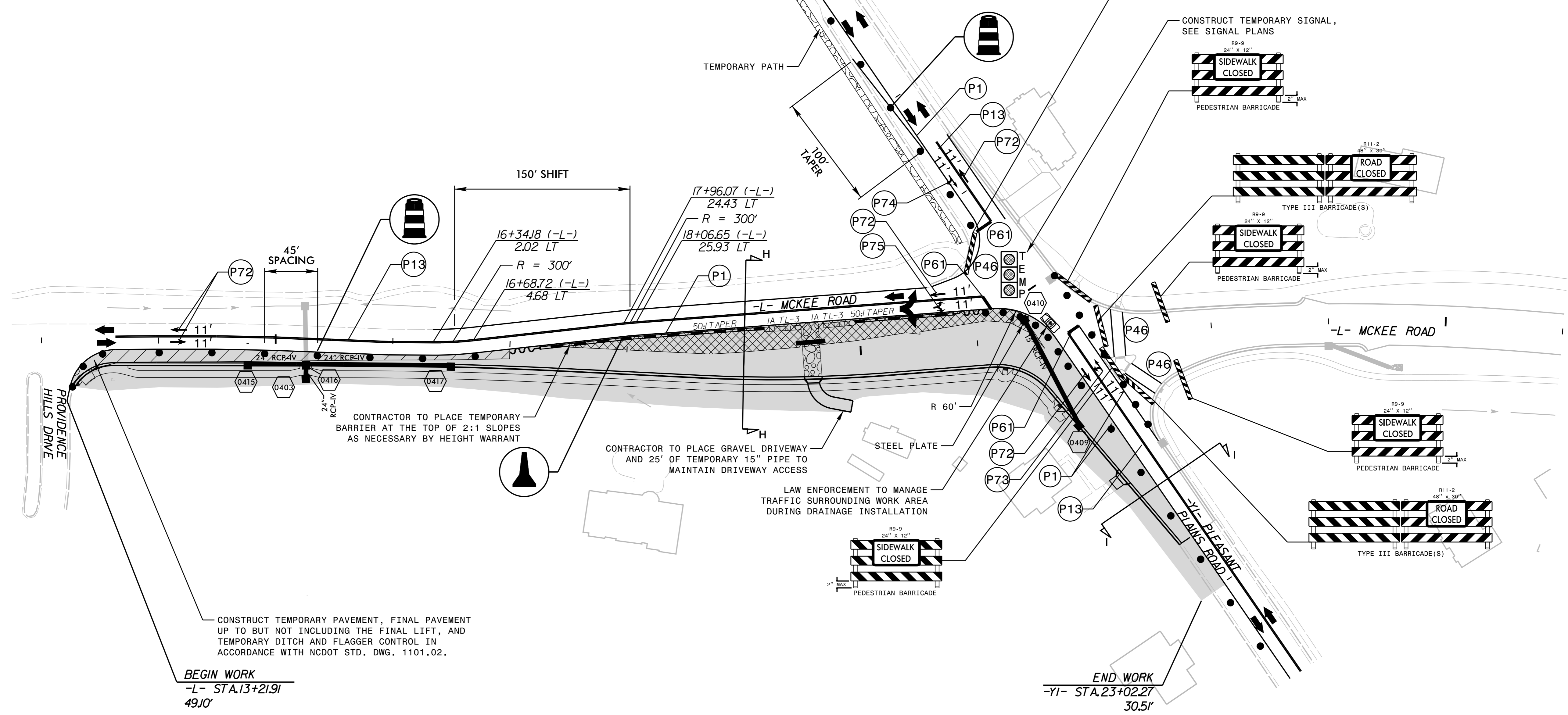
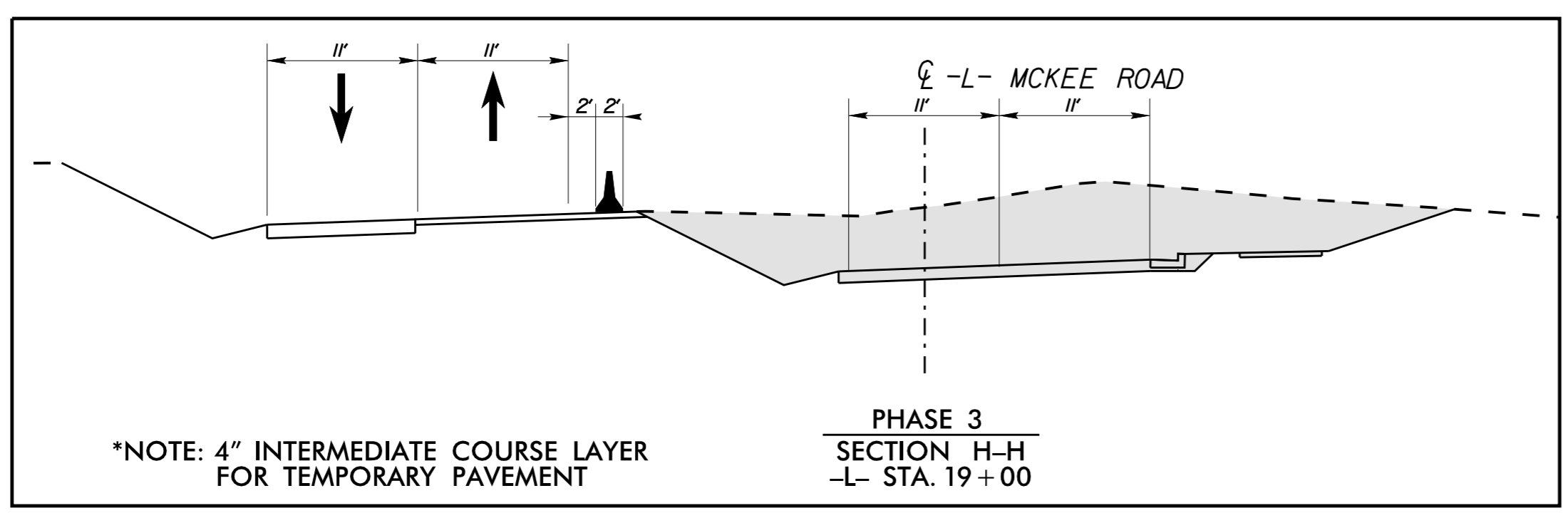
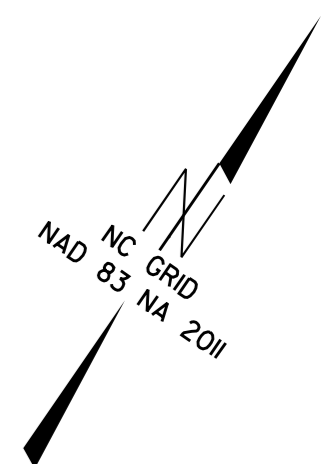
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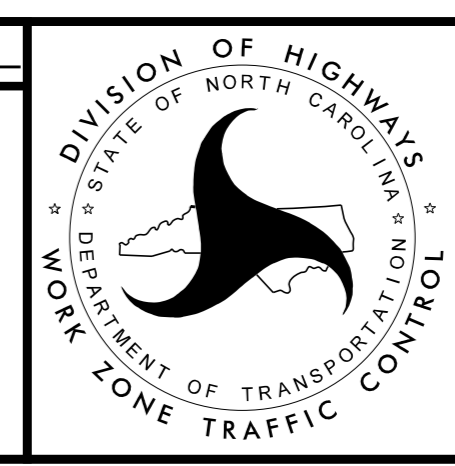
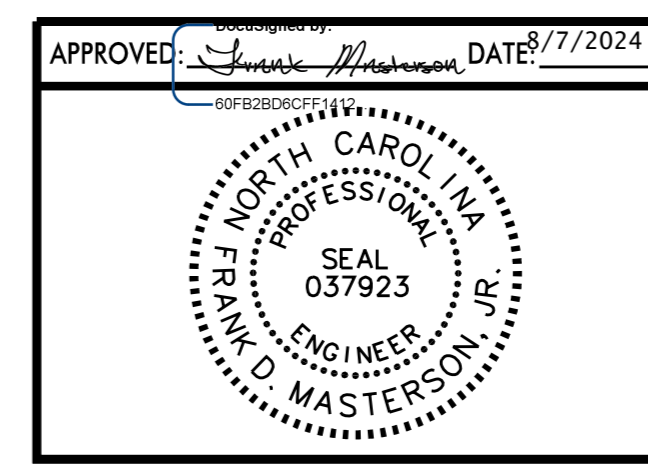
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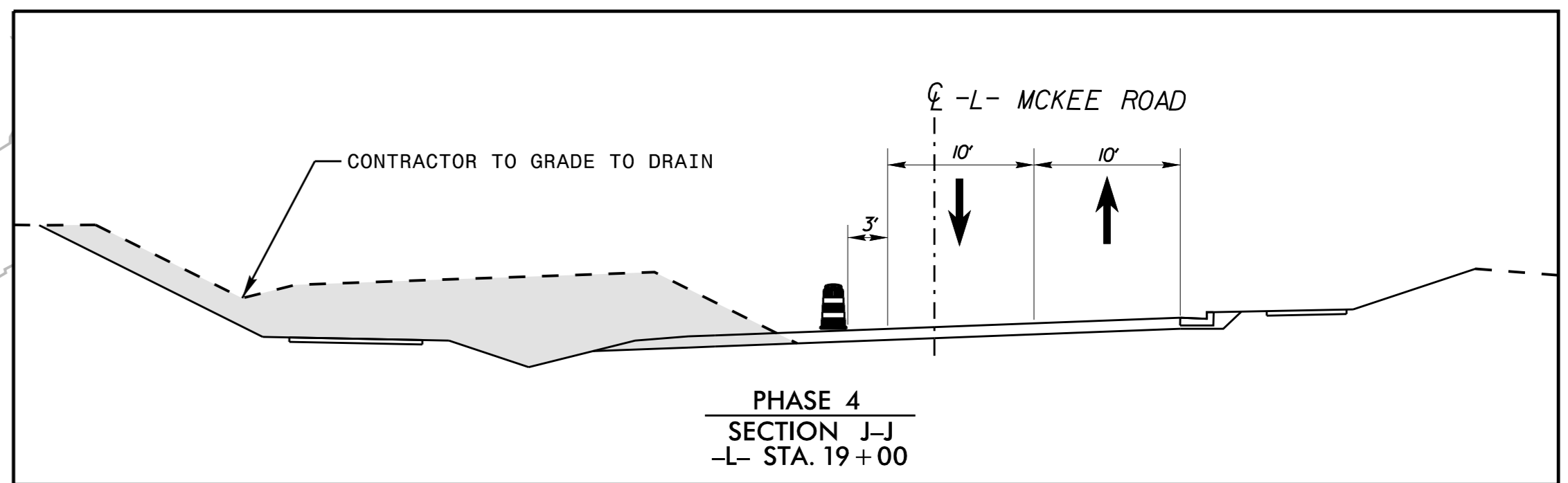
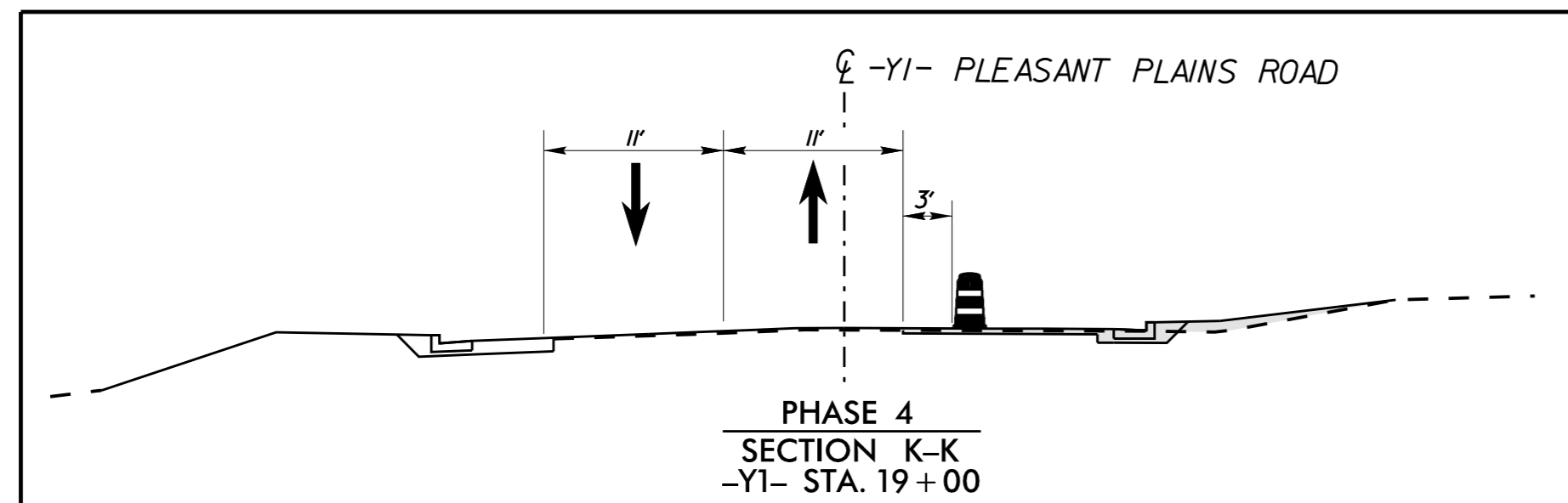
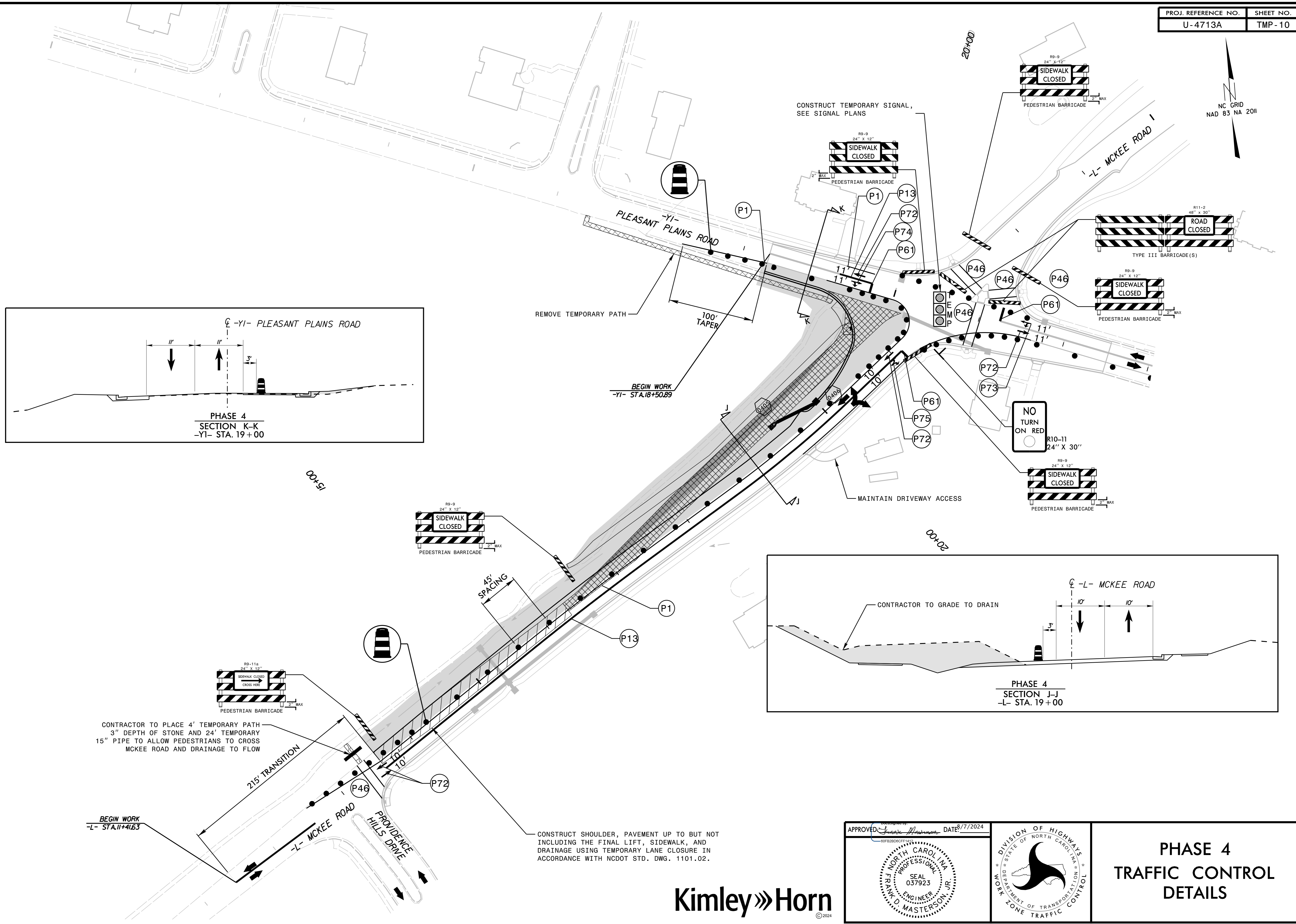
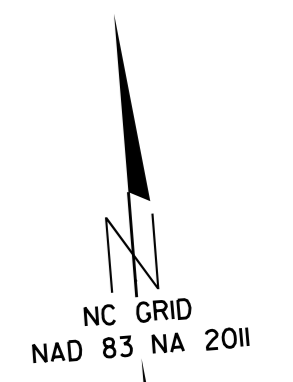
**PHASE 2
TRAFFIC CONTROL
DETAILS**



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PHASE 3 TRAFFIC CONTROL DETAILS

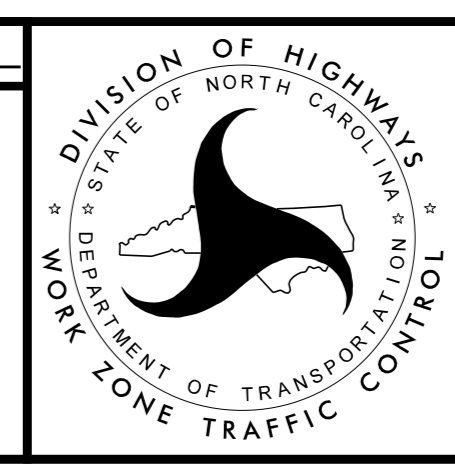


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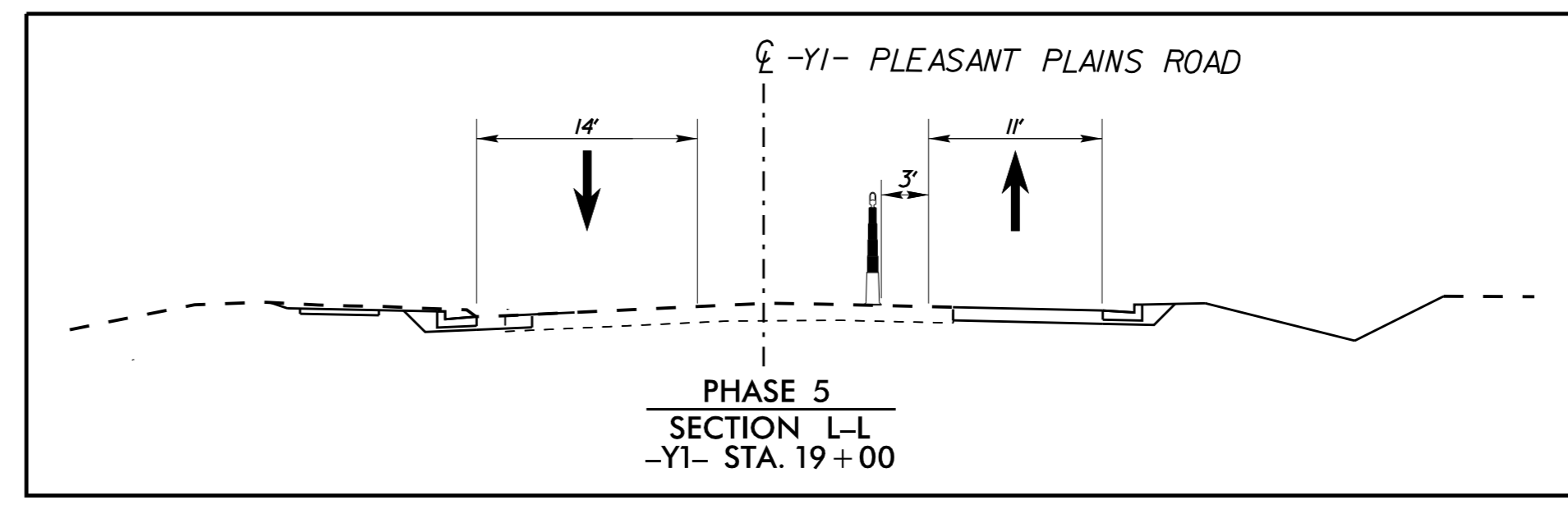
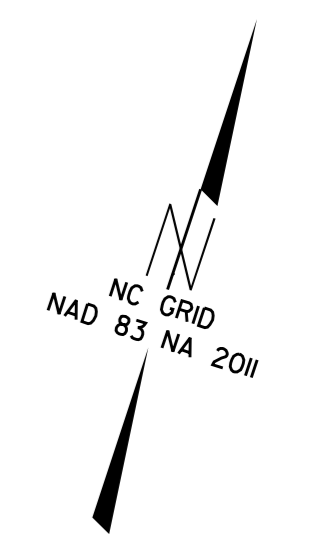
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FRANK D. MASTERSON, JR.
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SEAL 037923
NORTH CAROLINA PROFESSIONAL ENGINEER



**PHASE 4
TRAFFIC CONTROL
DETAILS**



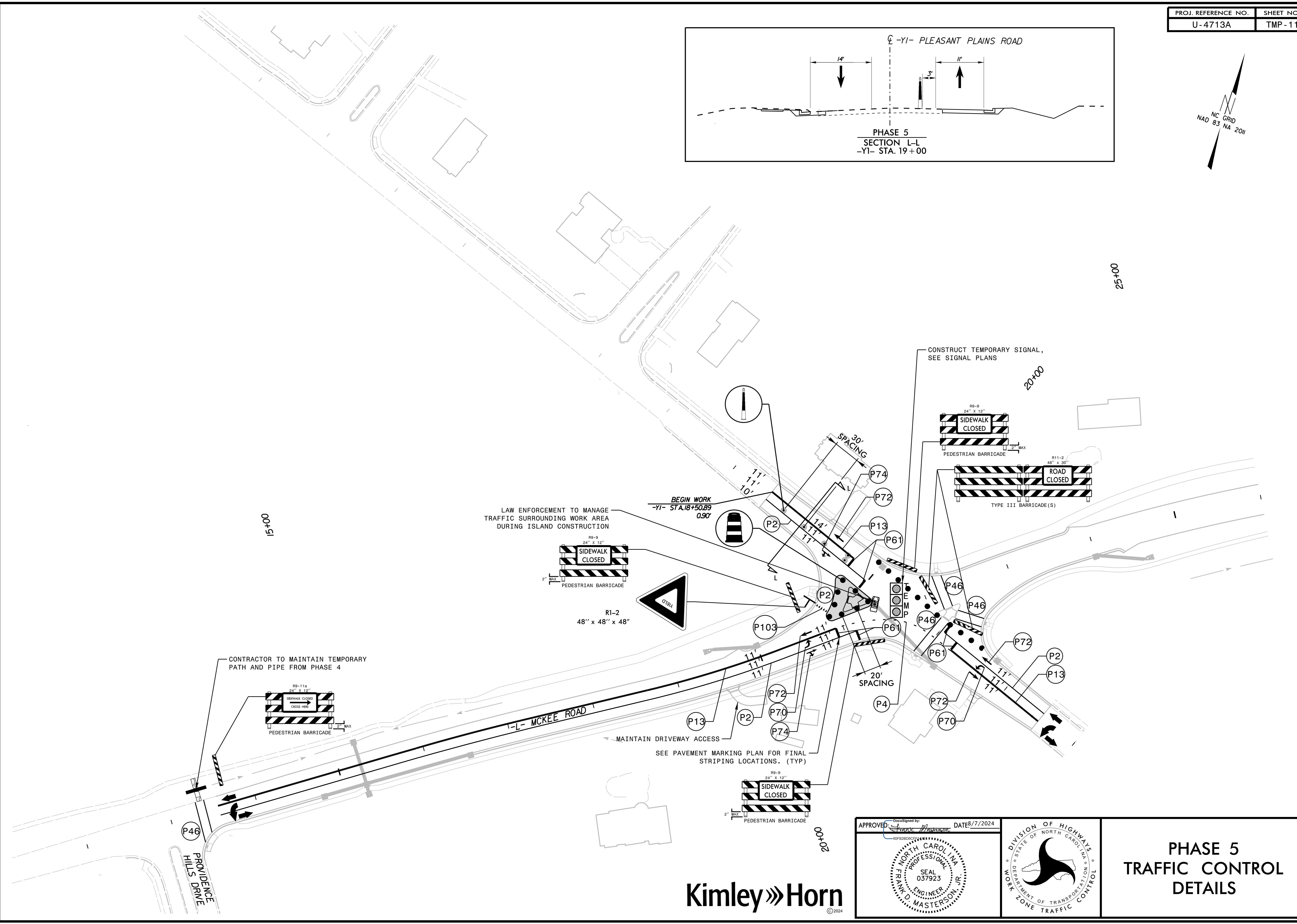


25+00

20+00

15+00

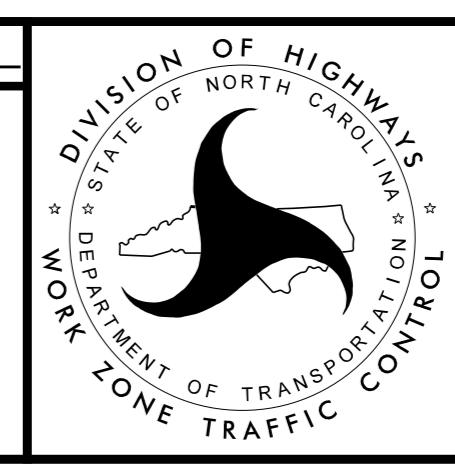
20+00



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**PHASE 5
TRAFFIC CONTROL
DETAILS**