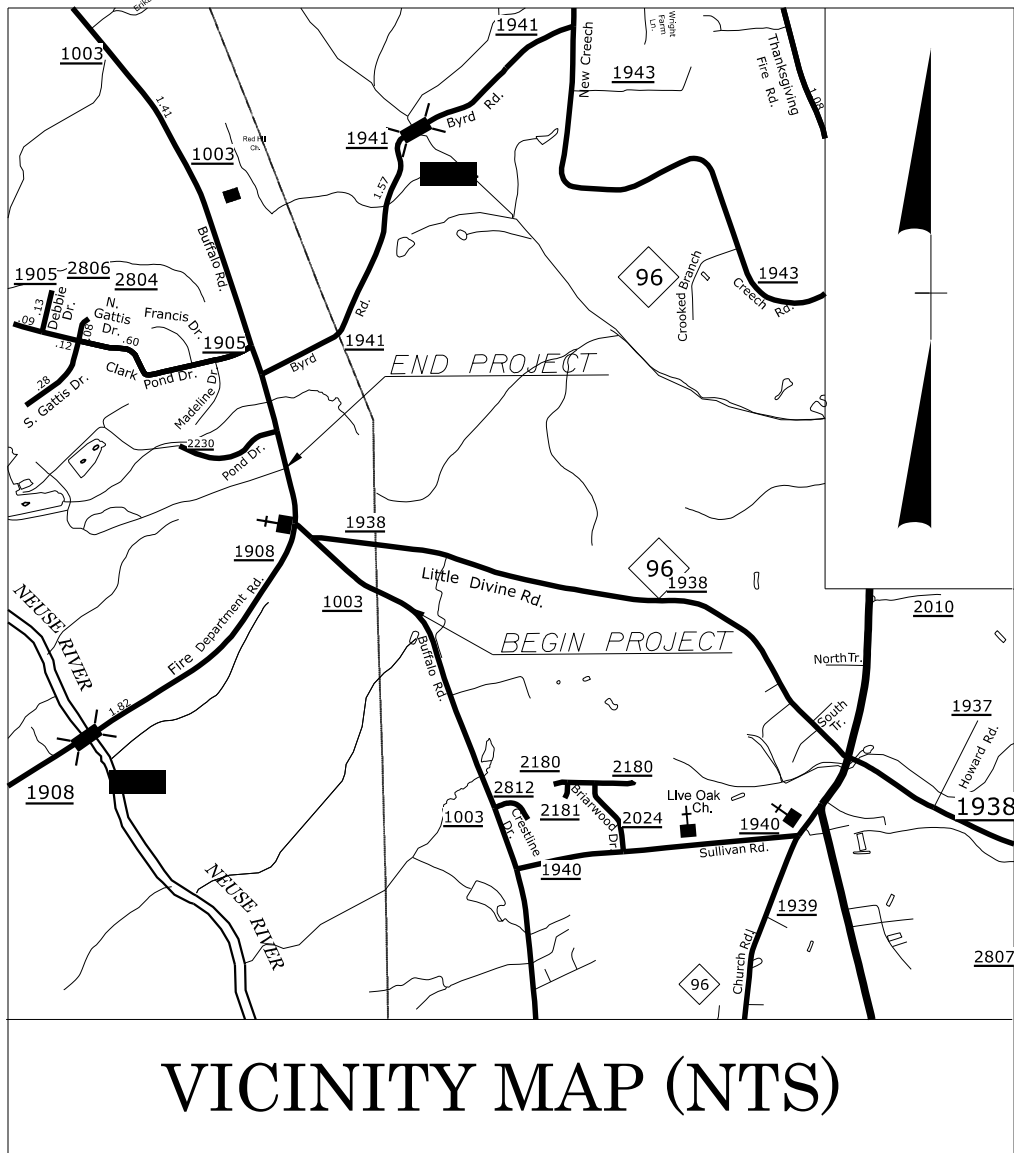
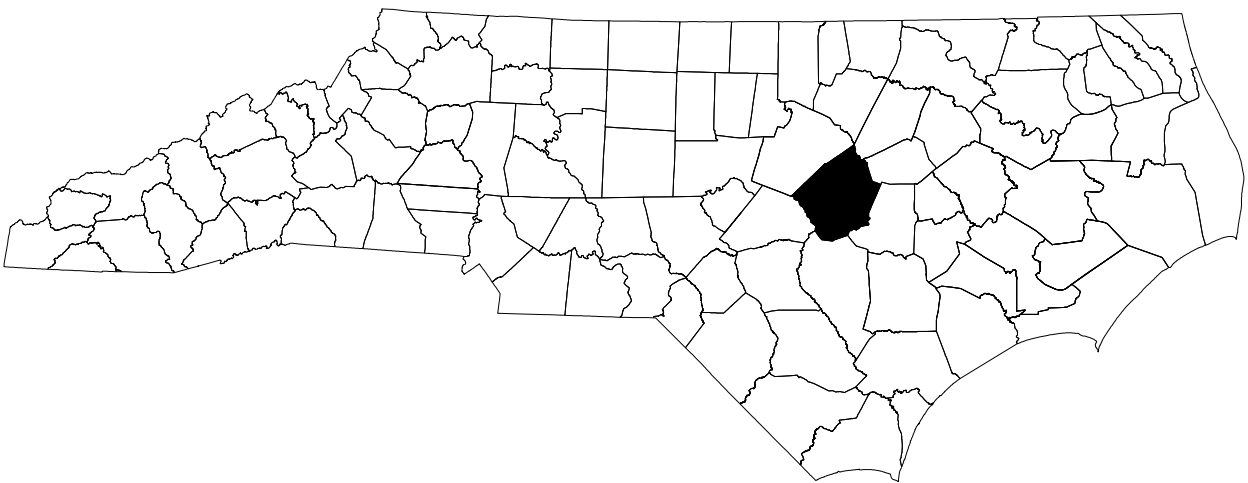


STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

TRANSPORTATION MANAGEMENT PLAN

JOHNSTON COUNTY



LOCATION: *SR 1908 (FIRE DEPT. ROAD) AT BUFFALO ROAD
INTERSECTION NORTH OF WILSON'S MILLS.
CONSTRUCT ROUNDABOUT.*

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



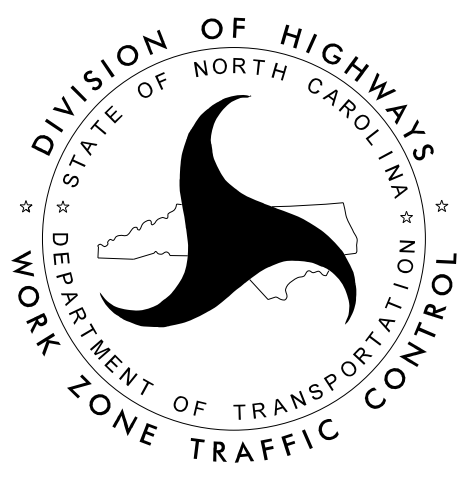
PLANS PREPARED BY:

JOSHUA ROEMER, PE

DANE FREDDE

NCDOT CONTACTS:

JAKE GREEN, PE, PLS
PROJECT ENGINEER

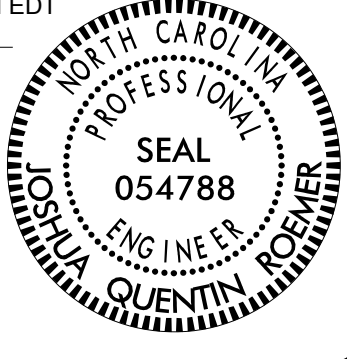


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APPROVED: JOSHUA ROEMER
DATE: 7/6/2026 | 1:40:58 PM EDT

SEAL



SHEET NO.
TMP-1

HN-0040

TIP PROJECT:

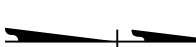
ROADWAY STANDARD DRAWINGS

THE FOLLOWING ROADWAY STANDARDS AS SHOWN IN "ROADWAY STANDARD DRAWINGS" - 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:

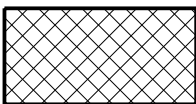
STD. NO.	TITLE
1101.01	WORK ZONE ADVANCE WARNING SIGNS
1101.02	TEMPORARY LANE CLOSURES
1101.05	WORK ZONE VEHICLE ACCESSSES
1101.11	TRAFFIC CONTROL DESIGN TABLES
1110.01	STATIONARY WORK ZONE SIGNS
1110.02	PORTABLE WORK ZONE SIGNS
1115.01	FLASHING ARROW BOARDS
1130.01	DRUMS
1135.01	CONES
1145.01	BARRICADES - TYPE III
1150.01	FLAGGERS
1180.01	SKINNY-DRUM
1205.01	PAVEMENT MARKINGS - LINE TYPES AND OFFSETS
1205.02	PAVEMENT MARKINGS - TWO-LANE AND MULTI-LANE ROADWAYS
1205.09	PAVEMENT MARKINGS - PAINTED ISLANDS
1205.14	PAVEMENT MARKINGS - ROUNDABOUTS

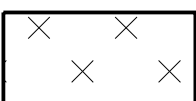
LEGEND

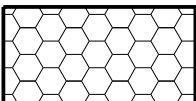
GENERAL

-  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

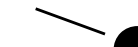
SIGNALS

-  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

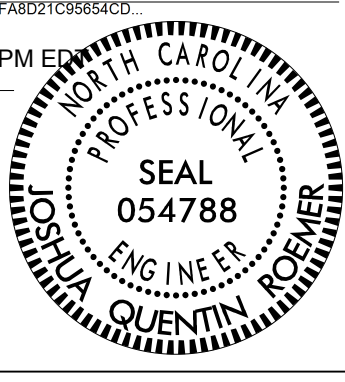
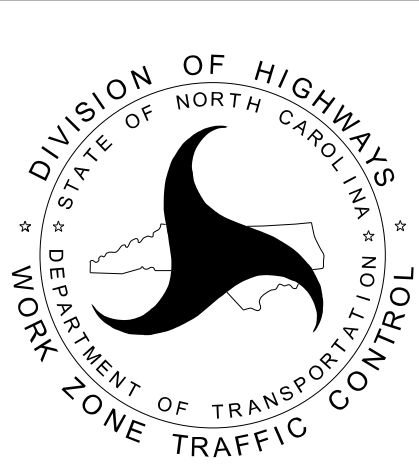
-  CRYSTAL/CRYSTAL
-  CRYSTAL/RED
-  YELLOW/YELLOW

PAVEMENT MARKING SYMBOLS

-    PAVEMENT MARKING SYMBOLS

TEMPORARY PAVEMENT MARKING

- P20 WHITE EDGELINE (6")
- P24 2 FT.-6 FT./SP WHITE MINISKIP (6")
- P30 YELLOW EDGELINE (6")
- P33 DOUBLE YELLOW (6")
- P50 WHITE GORELINE (12")
- P52 YELLOW DIAGONAL (12")
- P55 3 FT.-3 FT./SP WHITE MINISKIP (12") (RAB ONLY)
- P103 24" YIELD LINE TRIANGLE

APPROVED: _____ DATE: 7/22/2026 2:21:48 PM EDT SEAL			ROADWAY STANDARD DRAWINGS & LEGEND
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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
 - SHOULDER CLOSURES
 - ONE-LANE, TWO WAY OPERATION (FLAGGING)
 - NIGHT WORK
 - WEEKEND WORK
 - WORK HOUR RESTRICTIONS FOR PEAK TRAVEL

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
ANY ROAD	MONDAY THRU FRIDAY, 6:00 AM TO 9:00 AM 4:00 PM TO 7:00 PM

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

ROAD NAME
ANY 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 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.
- 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 STOP TRAFFIC AS FOLLOWS:

ROAD NAME	DAY AND TIME RESTRICTIONS	DURATION AND OPERATION
ANY ROAD	MONDAY THRU SUNDAY 6:00 AM TO 7:00 PM	20 MIN., TIE-INS, MARKING PLACEMENT, TRAFFIC SHIFTS

LANE AND SHOULDER CLOSURE REQUIREMENTS

- D) REMOVE LANE CLOSURE DEVICES FROM THE LANE WHEN WORK IS NOT BEING PERFORMED BEHIND THE LANE CLOSURE OR WHEN A LANE CLOSURE IS NO LONGER NEEDED OR AS DIRECTED BY THE ENGINEER.
- E) WHEN PERSONNEL AND/OR EQUIPMENT ARE WORKING WITHIN 15 FT OF AN OPEN TRAVEL LANE, CLOSE THE NEAREST OPEN SHOULDER USING ROADWAY STANDARD DRAWING NO. 1101.04 UNLESS THE WORK AREA IS PROTECTED BY BARRIER OR GUARDRAIL OR A LANE CLOSURE IS INSTALLED.
- F) WHEN PERSONNEL AND/OR EQUIPMENT ARE WORKING WITHIN 5 FT OF AN OPEN TRAVEL LANE ON AN UNDIVIDED FACILITY, 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 WITHIN 10 FT OF AN OPEN TRAVEL LANE ON A DIVIDED FACILITY, CLOSE THE NEAREST OPEN TRAVEL LANE USING ROADWAY STANDARD DRAWING NO. 1101.02 UNLESS THE WORK AREA IS PROTECTED BY BARRIER OR GUARDRAIL.

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

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) 200 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.

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) 200 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.

PAVEMENT MARKINGS AND MARKERS

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

ROAD NAME	MARKING	MARKER
ANY ROAD	PAINT	NONE

- T) 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.
- U) TIE PROPOSED PAVEMENT MARKING LINES TO EXISTING PAVEMENT MARKING LINES.
- V) REMOVE/REPLACE ANY CONFLICTING/DAMAGED PAVEMENT MARKINGS AND MARKERS BY THE END OF EACH DAY'S OPERATION.

MISCELLANEOUS

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

- X) 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) 350 FT AND 700 FT RESPECTIVELY IN ADVANCE OF THE UNEVEN AREAS. USE DRUMS TO DELINEATE THE EDGE OF ROADWAY ALONG UNPAVED AREAS.

APPROVED: _____

DATE: 7/6/2026 | 1:40:58 PM EDT

SEAL

Signed by: JOSHUA ROEMER

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PROFESSIONAL SEAL 054788

ENGINEER

QUENTIN ROEMER

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TRANSPORTATION OPERATIONS PLAN

PHASING NOTES

PHASE I

- STEP 1:
- ERECT WORK ZONE ADVANCED WARNING SIGNS USING ROADWAY STANDARD DRAWING NO. (RSD) 1101.01, SHEET 3 OF 3.
- STEP 2:
- USING RSD 1101.02, SHEET 1 OF 19, AND FLAGGERS AS NECESSARY, INSTALL ALL NECESSARY TRAFFIC CONTROL DEVICES (SEE SHEET TMP-4).
- STEP 3:
- UNDER EXISTING TRAFFIC PATTERN, AND AWAY FROM TRAFFIC, USING RSD 1101.02, SHEET 1 OF 19, AND FLAGGERS AS NECESSARY, CONSTRUCT THE FOLLOWING UP TO, BUT NOT INCLUDING ANY SURFACE COURSE:
- PROPOSED ROUNDABOUT, PROPOSED ROADWAY AND CURB & GUTTER ALONG -L1-, -Y1-, & -Y2- (SEE SHEET TMP-4).
- STEP 4:
- AWAY FROM TRAFFIC, USING RSD 1101.02, SHEET 1 OF 19, AND FLAGGERS AS NECESSARY, CONSTRUCT THE FOLLOWING UP TO, BUT NOT INCLUDING ANY SURFACE COURSE:
- A PORTION OF THE PROPOSED ROADWAY ALONG -Y2- (SEE SHEET TMP-4).
- TEMPORARY PAVEMENT ALONG THE EXISTING ROAD (SR 1003) SHALL BE USED TO MAINTAIN EXISTING TRAFFIC, AND PROVIDE A TEMPORARY CONNECTION ACROSS THE PROPOSED ROADWAY ALONG -Y2- DURING CONSTRUCTION (SEE SHEET TMP-4).

PHASE III

- STEP 1:
- USING RSD NO. 1101.02, SHEETS 1 & 18 OF 19, AND FLAGGERS AS NECESSARY, PLACE FINAL LAYER OF SURFACE COURSE ALONG -L1-, -Y1- & -Y2- (SEE ROADWAY PLANS).
- STEP 2:
- USING RSD NO. 1101.02, SHEETS 1 & 18 OF 19, PLACE FINAL PAVEMENT MARKINGS (SEE PMP PLANS).
- STEP 3:
- PLACE ANY PROPOSED SIGNS NOT YET PLACED THROUGHOUT THE PROJECT (SEE SIGNING PLANS).
- STEP 4:
- USING RSD NO. 1101.02, SHEETS 1 & 18 OF 19, REMOVE ALL TEMPORARY TRAFFIC CONTROL DEVICES, AND PLACE TRAFFIC IN ITS FINAL TRAFFIC PATTERN.

PHASE II

- STEP 1:
- USING RSD NO. 1101.02, SHEETS 1 & 18 OF 19, NIGHT WORK, AND FLAGGERS AS NECESSARY, COMPLETE THE FOLLOWING IN A CONTINUOUS OPERATION:
- REMOVE AS NECESSARY, EXISTING PAVEMENT MARKINGS, PLACE TEMPORARY MARKINGS (PAINT), RESET AND INSTALL TRAFFIC CONTROL DEVICES (SEE PMP PLANS & SHEETS TMP-5 THRU TMP-6).
- CONSTRUCT THE REMAINING OF THE PROPOSED ROADWAY AND CURB & GUTTER ALONG -L1-, -Y1-, & -Y2-, PROPOSED DRIVEWAYS, WEDGING ABOVE EXISTING PAVEMENT AS NEEDED (SEE SHEET TMP-5 THRU TMP-6).
- INSTALL PROPOSED SIGNS FOR THE PROPOSED ROUNDABOUT (SEE SIGN PLANS).
- SHIFT TRAFFIC TO PROPOSED ROUNDABOUT PATTERN (SEE SHEET TMP-5 THRU TMP-6)
- STEP 2:
- AWAY FROM TRAFFIC, USING RSD NO. 1101.02, SHEETS 1 & 18 OF 19, AND FLAGGERS AS NECESSARY, CONSTRUCT PROPOSED SPLITTER ISLANDS, REMOVING EXISTING AND TEMPORARY PAVEMENT WHERE APPLICABLE (SEE SHEETS TMP-5 THRU TMP-6).

APPROVED:

Joshua Roemer

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DATE: 7/6/2026 | 1:40:58 PM EDT

SEAL

STATE OF NORTH CAROLINA

PROFESSIONAL SEAL

054788

ENGINEER

JOSHUA QUENTIN ROEMER

DIVISION OF HIGHWAYS

STATE OF NORTH CAROLINA

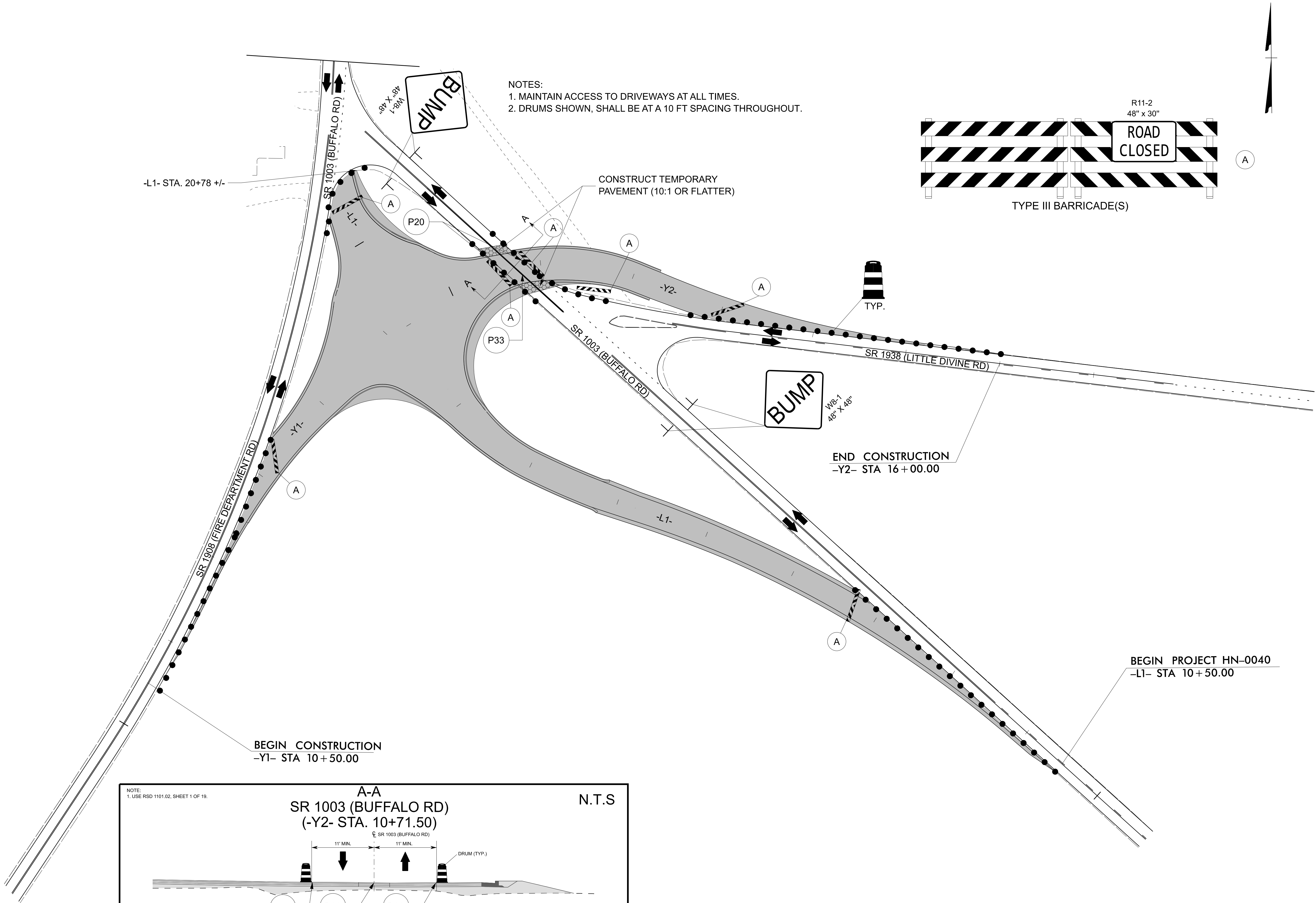
DEPARTMENT OF TRANSPORTATION

WORK ZONE TRAFFIC CONTROL

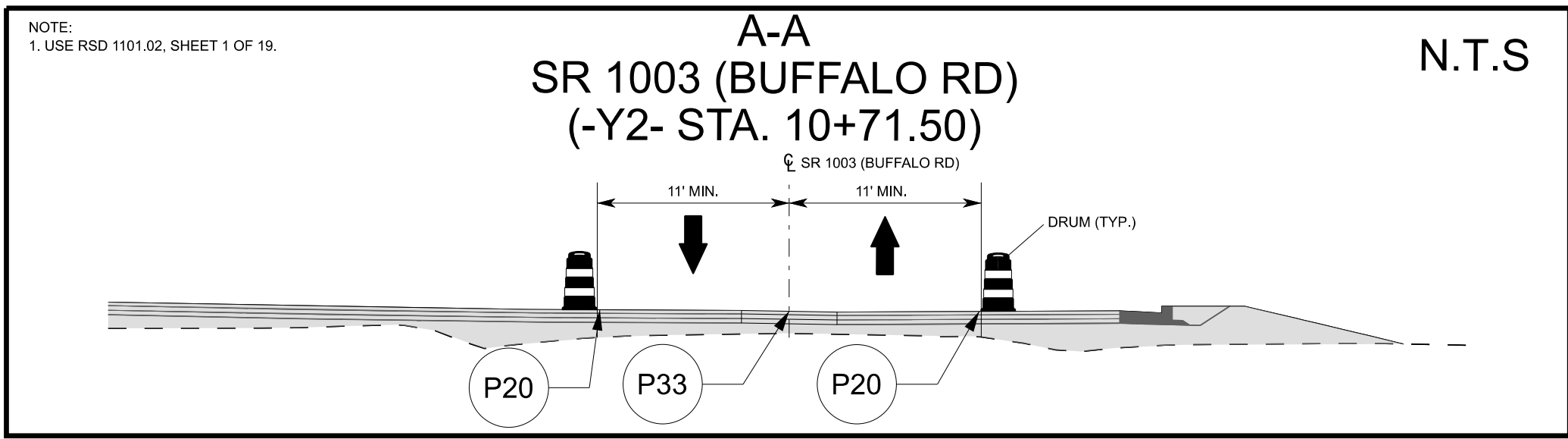
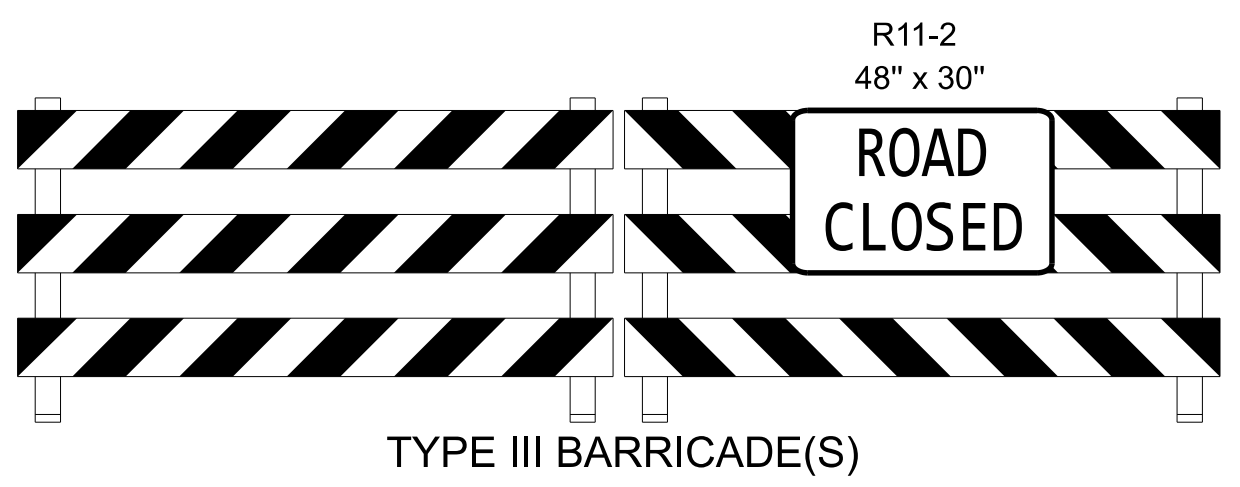
PHASING NOTES

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NOTES:
1. MAINTAIN ACCESS TO DRIVEWAYS AT ALL TIMES.
2. DRUMS SHOWN, SHALL BE AT A 10 FT SPACING THROUGHOUT.



HN-0040

TMP4

NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION
JOHNSTON COUNTY

ROADWAY DESIGN UNIT
TRAFFIC CONTROL
ENGINEER

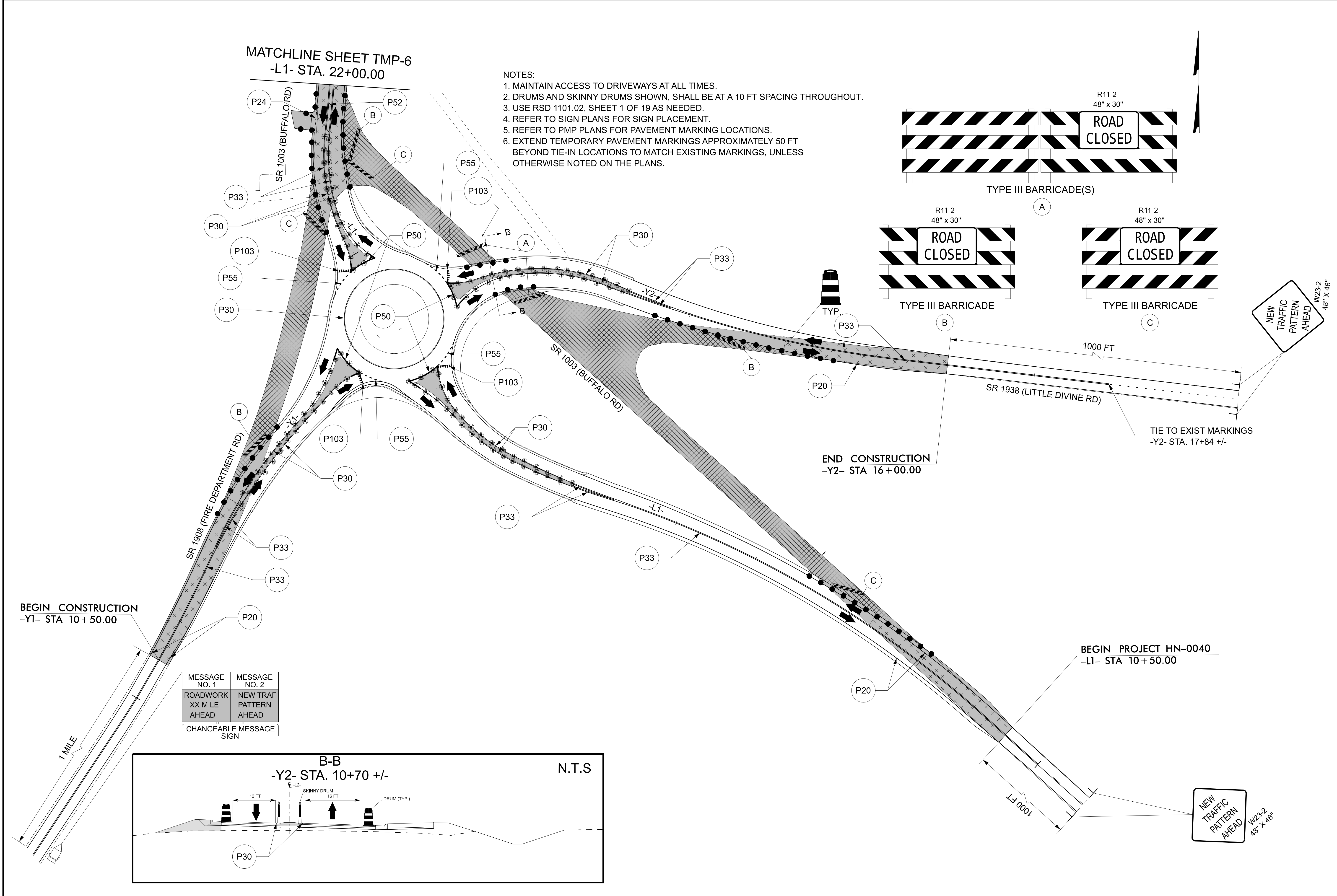
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054788
JOHNSTON COUNTY
NORTH CAROLINA
REGISTERED PROFESSIONAL ENGINEER
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PHASE I

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HN-0040

TMP 5

NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION
JOHNSTON COUNTY

ROADWAY DESIGN UNIT
TRAFFIC CONTROL
ENGINEER

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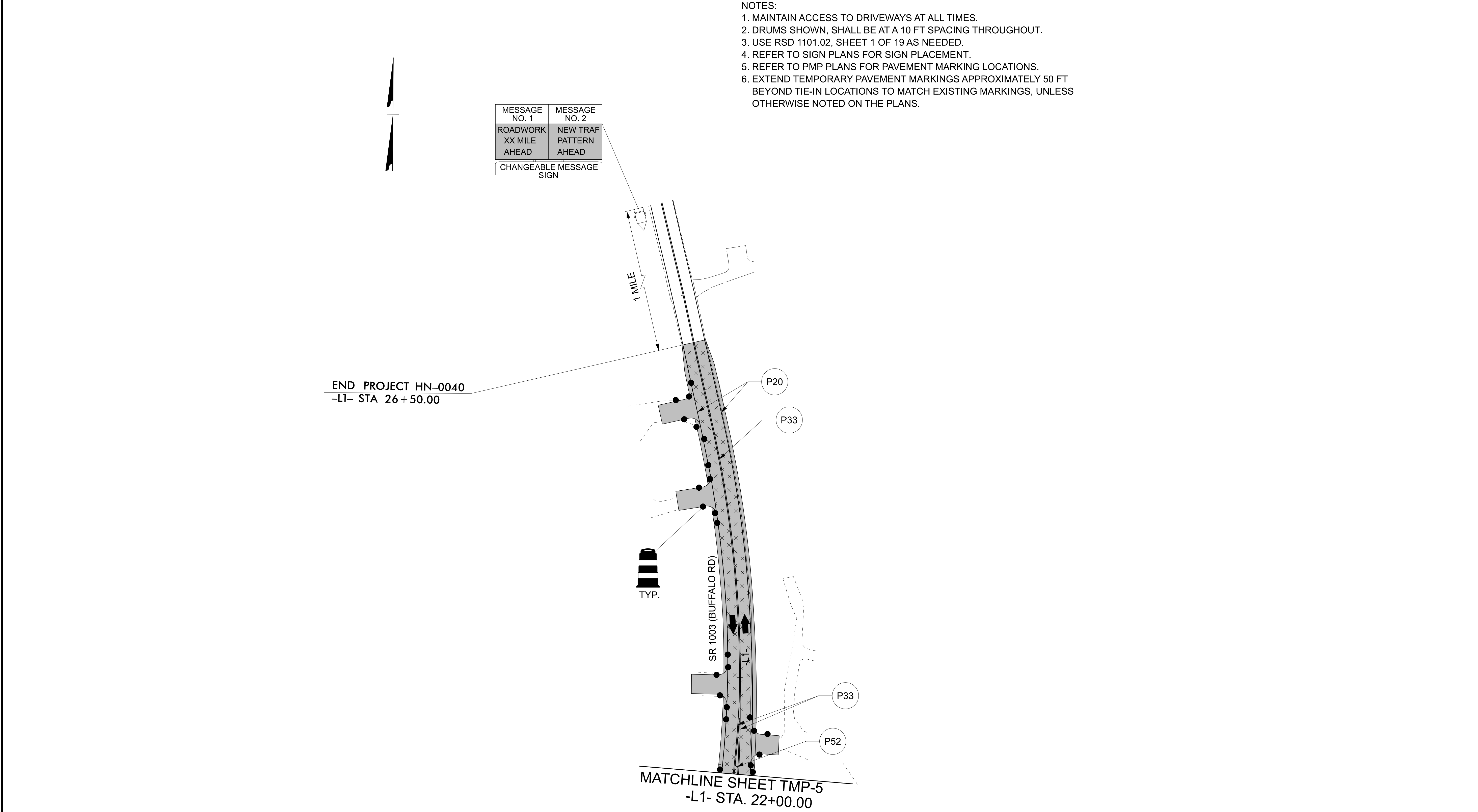
JOHNSON, MIRMAN, & THOMPSON, INC.

PHASE II

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11/14/23



HN-0040

TMP6

NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION
JOHNSTON COUNTY

ROADWAY DESIGN UNIT

TRAFFIC CONTROL
ENGINEER

7/6/2023
JOHNSTON COUNTY
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ENGINEER
JOHNSTON COUNTY

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