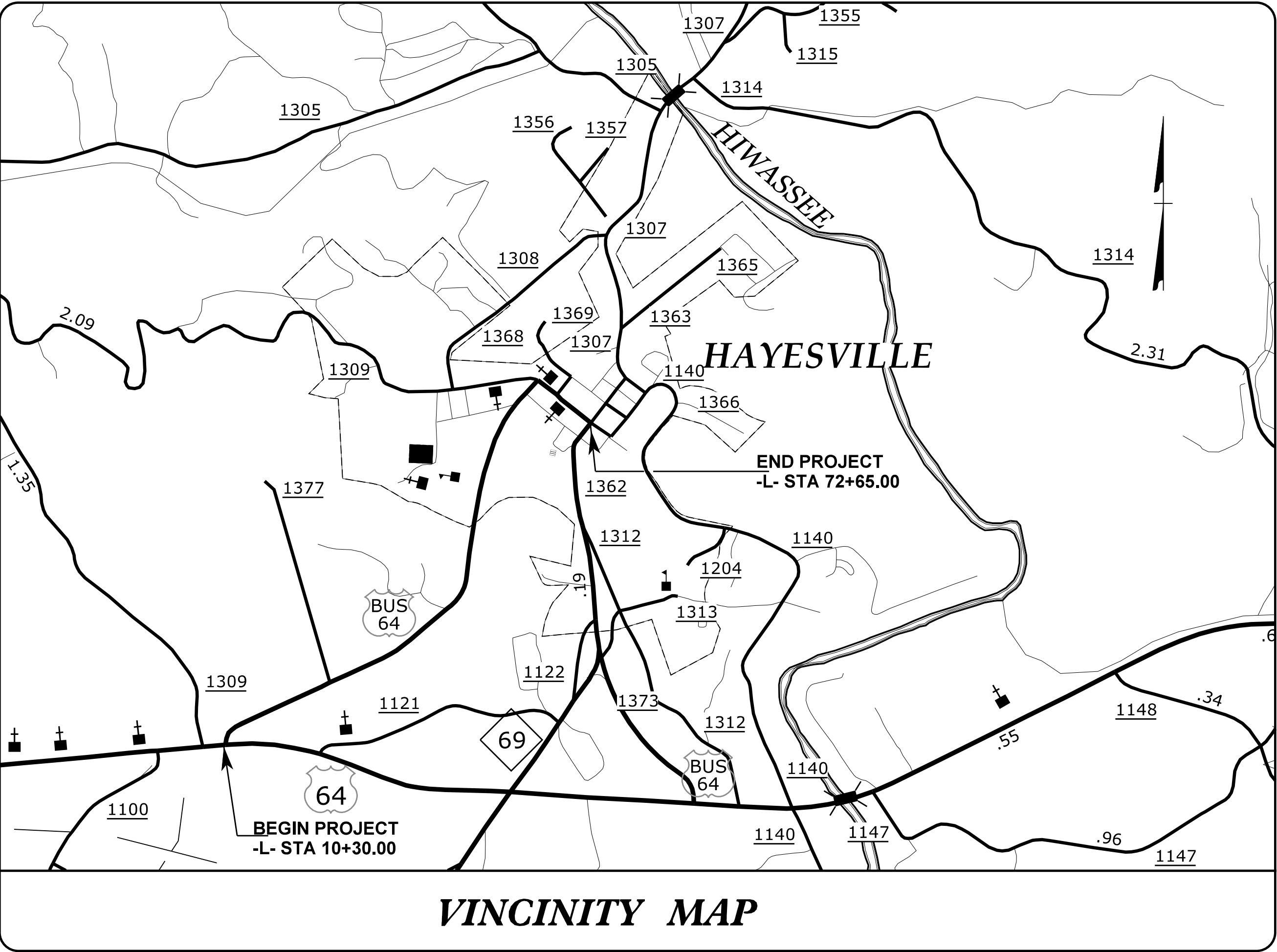
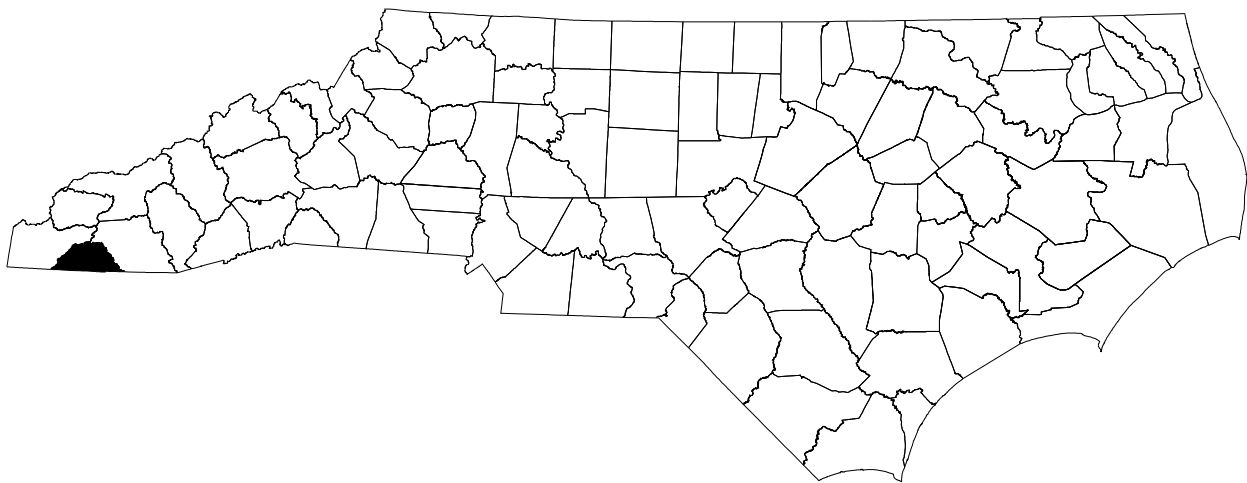
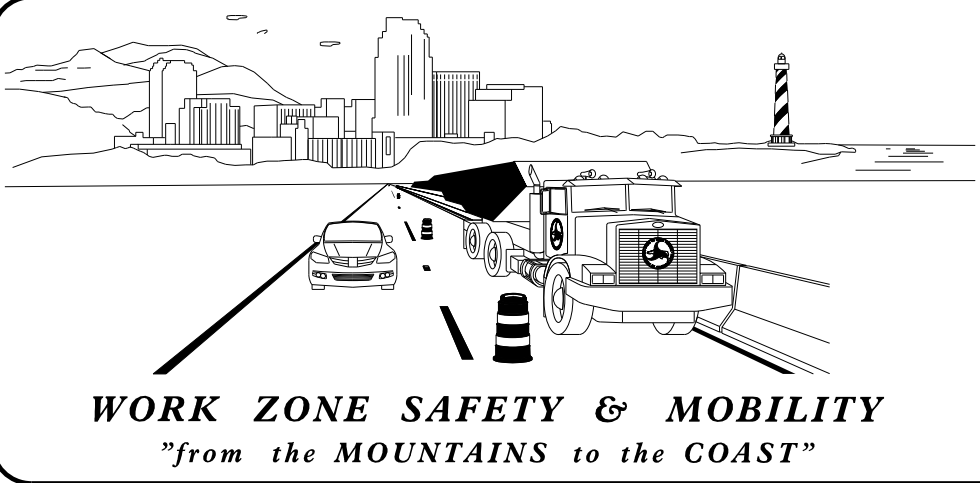


STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

TRANSPORTATION MANAGEMENT PLAN
CLAY COUNTY

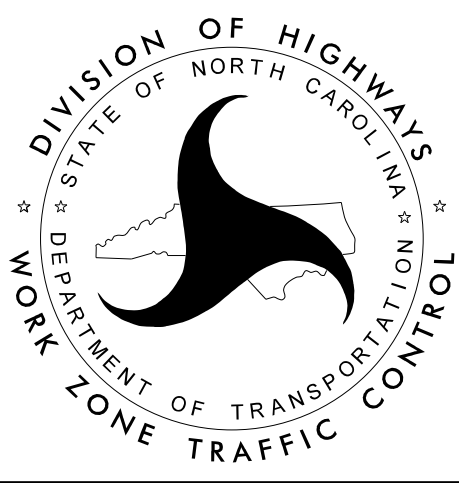


VINCINITY MAP



PLANS PREPARED BY:
Lloyd DeWayne Brown, PE, PLS
PROJECT ENGINEER
Colton M. Riddle, PE
PROJECT DESIGN ENGINEER

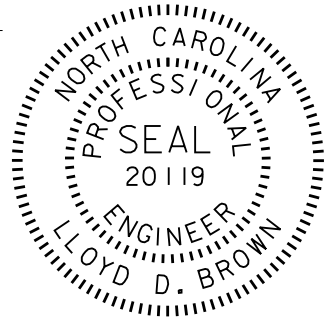
NCDOT CONTACTS:
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DATE: 7/28/2025 | 10:53:47 AM PDT



SHEET NO.
TMP-1

R-5863

TIP PROJECT:

| SHEET NO. | TITLE |
|--------------------|---|
| TMP-1 | TITLE SHEET, VICINITY MAP, AND INDEX OF SHEETS |
| TMP-1A | LIST OF APPLICABLE ROADWAY STANDARD DRAWINGS, LEGEND, & TEMPORARY PAVEMENT MARKING SCHEDULE |
| TMP-1B | SIGN AND DEVICE LEGEND |
| TMP-1C THRU TMP-1D | TRANSPORTATION OPERATIONS PLAN |
| TMP-1E | TEMPORARY SHORING NOTES |
| TMP-1F | PCB AT TEMPORARY SHORING LOCATIONS |
| TMP-2 | SPECIAL SIGN DESIGN |
| TMP-2A THRU TMP-2E | OFFSITE DETOUR PLAN SHEETS |
| TMP-3 | PHASING NOTES |
| TMP-4 | PHASE 1 |
| TMP-5 THRU TMP-10 | PHASE 2 |
| TMP-11 THRU TMP-15 | PHASE 3 |

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User:cmriddle





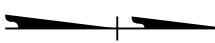

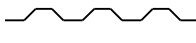
ROADWAY STANDARD DRAWINGS



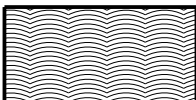
THE FOLLOWING ROADWAY STANDARDS AS SHOWN IN "ROADWAY STANDARD DRAWINGS" - N.C. DEPARTMENT OF TRANSPORTATION - RALEIGH, N.C., DATED JANUARY 2024 ARE APPLICABLE TO THIS PROJECT AND BY REFERENCE HEREBY ARE CONSIDERED A PART OF THESE PLANS:

| STD. NO. | TITLE |
|----------|--|
| 1101.01 | WORK ZONE ADVANCE WARNING SIGNS |
| 1101.02 | TEMPORARY LANE CLOSURES |
| 1101.03 | TEMPORARY ROAD CLOSURES |
| 1101.04 | TEMPORARY SHOULDER CLOSURES |
| 1101.05 | WORK ZONE VEHICLE ACCESSES |
| 1101.11 | TRAFFIC CONTROL DESIGN TABLES |
| 1110.01 | STATIONARY WORK ZONE SIGNS |
| 1110.02 | PORTABLE WORK ZONE SIGNS |
| 1130.01 | DRUMS |
| 1135.01 | CONES |
| 1145.01 | BARRICADES |
| 1150.01 | FLAGGING DEVICES |
| 1160.01 | TEMPORARY CRASH CUSHION |
| 1170.01 | PORTABLE CONCRETE BARRIER |
| 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 |
| 1205.06 | PAVEMENT MARKINGS - LANE DROPS |
| 1205.07 | PAVEMENT MARKINGS - PEDESTRIAN CROSSWALKS |
| 1205.08 | PAVEMENT MARKINGS - SYMBOLS AND WORD MESSAGES |
| 1205.09 | PAVEMENT MARKINGS - PAINTED ISLANDS |
| 1205.13 | PAVEMENT MARKINGS - LANE REDUCTIONS |
| 1205.14 | PAVEMENT MARKINGS - ROUNDABOUTS |
| 1250.01 | RAISED PAVEMENT MARKERS - INSTALLATION SPACING |
| 1251.01 | RAISED PAVEMENT MARKERS - (PERMANENT AND TEMPORARY) |
| 1261.01 | GUARDRAIL AND BARRIER DELINEATORS - INSTALLATION SPACING |
| 1262.01 | GUARDRAIL END DELINEATION - TYPES AND MOUNTING |
| 1264.01 | OBJECT MARKERS - TYPES |
| 1264.02 | OBJECT MARKERS - INSTALLATION |


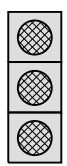
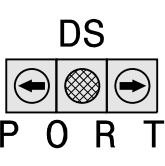

LEGEND

GENERAL

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

-  WORK AREA
-  REMOVAL OF EXISTING PAVEMENT
-  WEDGING

SIGNALS

-  EXISTING
-  PROPOSED
-  DS
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

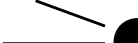


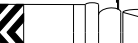

PAVEMENT MARKINGS

-  EXISTING LINES
-  TEMPORARY LINES




TEMPORARY PAVEMENT MARKING

| PAINT | DESCRIPTION |
|-------|--|
| P1 | WHITE EDGELINE (4") |
| P2 | WHITE SOLID LANE LINE (4") |
| P4 | 3 FT.-9 FT./SP WHITE MINISKIP (4") |
| P5 | 2 FT.-6 FT./SP WHITE MINISKIP (4") |
| P10 | YELLOW EDGELINE (4") |
| P13 | YELLOW DOUBLE CENTER (4") |
| P40 | WHITE GORELINE (8") |
| P41 | WHITE DIAGONAL (8") |
| P45 | 3 FT.-3 FT./SP WHITE MINISKIP (8") (ROUNDABOUTS ONLY) |
| P46 | WHITE CROSSWALK LINE (8") |
| P55 | 3 FT.-3 FT./SP WHITE MINISKIP (12") (ROUNDABOUTS ONLY) |
| P61 | WHITE STOPBAR (24") |
| P62 | WHITE CROSSWALK LINE (24") |
| P70 | LEFT TURN ARROW |
| P71 | RIGHT TURN ARROW |
| P72 | STRAIGHT ARROW |
| P76 | COMBO. LEFT/RIGHT/STRAIGHT ARROW |
| P103 | 24" YIELD LINE TRIANGLE |
| P111 | FISH-HOOK LEFT/STRAIGHT ARROW |
| P112 | FISH-HOOK RIGHT/STRAIGHT ARROW |
| P114 | FISH-HOOK W/CIRCLE LEFT/RIGHT/STRAIGHT ARROW |




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

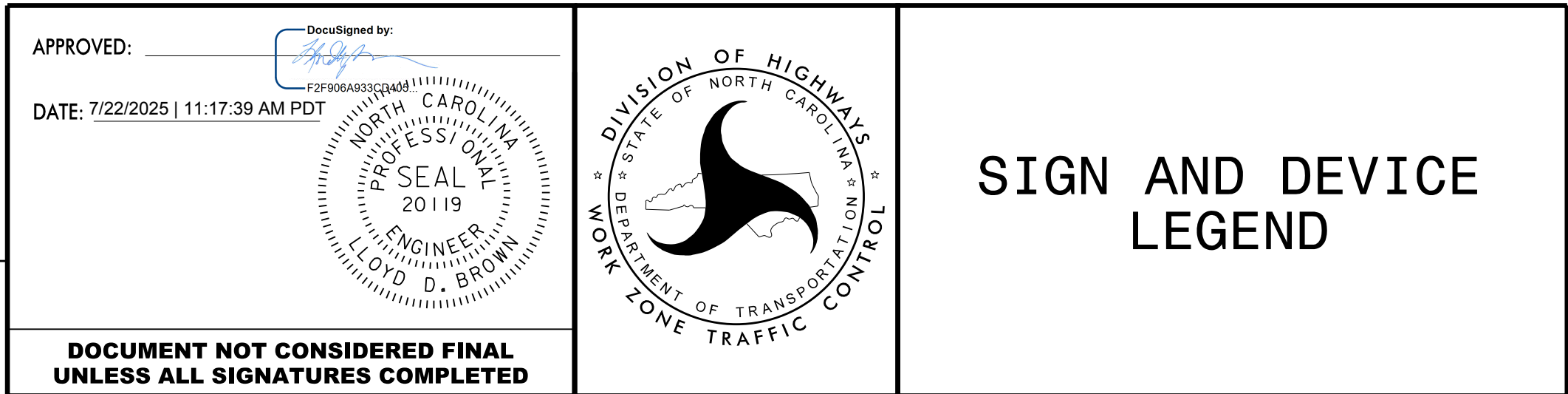
-  PORTABLE SIGN
-  STATIONARY SIGN
-  STATIONARY OR PORTABLE SIGN

PAVEMENT MARKERS

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

PAVEMENT MARKING SYMBOLS

-    PAVEMENT MARKING SYMBOLS



MANAGEMENT STRATEGIES

CONSTRUCTION

UPGRADE INTERSECTION OF US 64 BUSINESS, HIAWASSEE ST., AND MAY ST. TO A ROUNDABOUT; AND ADD BIKE LANES, CURB & GUTTER, AND SIDEWALKS THE ENTIRE LENGTH OF THE PROJECT.

TMP DESIGN PARAMETERS

THIS PROJECT CONTAINS DAILY LANE, HOLIDAYS, AND SPECIAL EVENTS RESTRICTIONS.

GENERAL SEQUENCE OF CONSTRUCTION

THIS PROJECT CONSIST OF LANE CLOSURES WITH FLAGGING OPERATIONS AND/OR OFF-SITE DETOURS TO CONSTRUCT PROPOSED WIDENING OF US 64 BUSINESS, PROPOSED -Y- LINES, PROPOSED CULVERTS, AND PROPOSED ROUNDABOUT.

TRAFFIC MANAGEMENT STRATEGIES

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

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

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 DURING HOLIDAYS AND SPECIAL EVENTS,EXCEPT AS DIRECTED IN PHASING (SEE TMP-1E), AS FOLLOWS:

ROAD NAME

ALL ROADS (NOTE: FULL ROAD CLOSURES AS DIRECTED IN PHASING ARE EXCEPTED FROM THESE RESTRICTIONS.)

HOLIDAY

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

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

B) 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.
- 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 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.
- 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.

LOCAL NOTES:

- EMERGENCY VEHICLE ACCESS MUST BE MAINTAINED AT ALL TIMES.
- NOTIFY THE FIRE DEPT, E.M.S., AND CLAY COUNTY SCHOOL BOARD 30 DAYS PRIOR TO ROAD CLOSURE.
- LOCAL ACCESS TO ALL RESIDENCES AND BUSINESSES WILL BE MAINTAINED BETWEEN CLOSURE POINTS AT ALL TIMES DURING CONSTRUCTION.

| PROJ. REFERENCE NO. | SHEET NO. |
|---------------------|-----------|
| R-5863 | TMP-1C |

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) 500 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.

AND

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.

AND

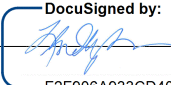
COVER OR REMOVE ALL SIGNS REQUIRED FOR THE OFF-SITE DETOUR WHEN THE DETOUR IS NOT IN OPERATION.


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) 175 FT IN ADVANCE OF THE UNEVEN AREA, OR AS DIRECTED BY THE ENGINEER.

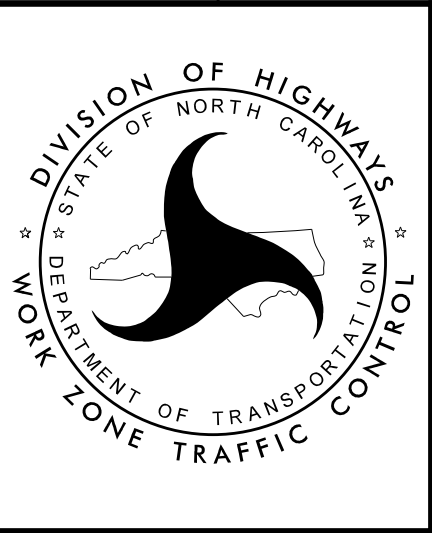


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TRANSPORTATIONS
OPERATIONS
PLAN

GENERAL NOTES (CONT.)

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.

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.

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 ON INTERIM LAYERS OF PAVEMENT AS FOLLOWS:

| ROAD NAME | MARKING | MARKER |
|-----------------------|---------|--------|
| US 64 BUSINESS -L- | PAINT | NONE |
| HIAWASSEE -L- | PAINT | NONE |
| HIAWASSEE -Y5- | PAINT | NONE |
| PRIVATE DRIVEWAY -Y6- | PAINT | NONE |
| MAY ST -Y7- | 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) 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/MI AND 350 FT/MI RESPECTIVLEY IN ADVANCE OF THE UNEVEN AREAS. USE DRUMS TO DELINEATE THE EDGE OF ROADWAY ALONG PAVED AREAS.

X) ALL STATIONS ARE CONSIDERED +/- UNLESS OTHERWISE SHOWN ON THE PLANS.

Y) ALL CURB RAMP LOCATIONS SHALL BE DERIVED FROM STATIONING SHOWN ON THE PAVEMENT MARKING PLANS OR AS DIRECTED BY THE ENGINEER IN COORDINATION WITH THE SIGNING AND DELINEATION UNIT.

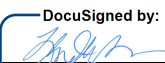
Z) CONTRACTOR SHALL COORDINATE WITH THE ENGINEER AND OTHERS TO PROVIDE A PEDESTRIAN TRANSPORT SERVICE THROUGH AND/OR AROUND THE PROJECT AS NEEDED. AT MINIMUM, THE PEDESTRIAN TRANSPORT SERVICE SHALL BE ON CALL BETWEEN THE HOURS OF 7:00 AM TO 8:00 PM MONDAY THROUGH SUNDAY. (SEE SPECIAL PROVISIONS)

EXTRA NOTES:

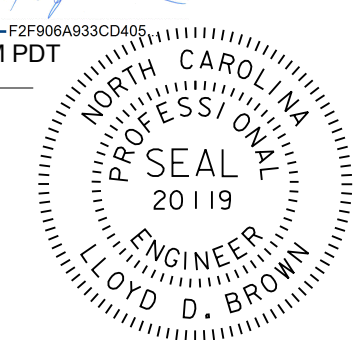
AA) INSTALL PORTABLE CHANGEABLE MESSAGE SIGNS AT LEAST 7 DAYS IN ADVANCE OF IMPLEMENTING OFF-SITE DETOURS NOTIFYING MOTORISTS OF THE DATE OF ROAD CLOSURE.

BB) LEVEL OF PEDESTRIAN ACCOMIDATION PROVIDED ON THIS PROJECT IS "BASIC."

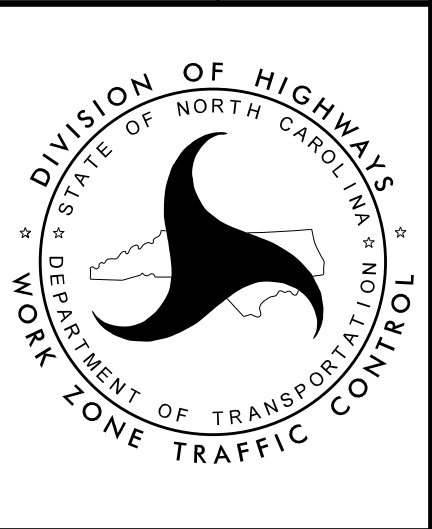
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TRANSPORTATIONS
OPERATIONS
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| PROJ. REFERENCE NO. | SHEET NO. |
|---------------------|-----------|
| R-5863 | TMP-1E |

TEMPORARY SHORING LOCATION NO. 01

SEE SHEET TMP-7

ESTIMATED QUANTITY = 2200 SQ. FT.

-L- STA. 50+55±, 42' LT, TO -L- STA. 51+66±, 47' RT.
LENGTH = 142' AVERAGE HEIGHT = 15.5' MAXIMUM HEIGHT = 16'

- FOR TEMPORARY SHORING AND POSITIVE PROTECTION FOR TEMPORARY SHORING, SEE PLANS AND TEMPORARY SHORING PROVISION.
- BEFORE BEGINNING TEMPORARY SHORING DESIGN OR CONSTRUCTION, SURVEY EXISTING GROUND ELEVATIONS IN THE VICINITY OF SHORING LOCATIONS TO DETERMINE ACTUAL SHORING HEIGHTS.
- DESIGN TEMPORARY SHORING FROM STATION -L- 50+55±, 42' LT, TO STATION -L- 51+66±, 47' RT, FOR THE FOLLOWING ASSUMED SOIL PARAMETERS AND GROUNDWATER ELEVATION:
UNIT WEIGHT (γ) = 120 PCF
FRICTION ANGLE (ϕ) = 30 DEGREES
COHESION (c) = 0 PSF
GROUNDWATER ELEVATION = 1,822± FT
- LIMITED SUBSURFACE INFORMATION IS AVAILABLE IN THE VICINITY OF TEMPORARY SHORING FROM STATION -L- 50+55±, 42' LT, TO STATION -L- 51+66±, 47' RT. THE INFORMATION PROVIDED FOR TEMPORARY SHORING DESIGN WAS ASSUMED AND MAY NOT BE APPLICABLE TO THE ACTUAL SITE CONDITIONS ENCOUNTERED DURING CONSTRUCTION.
- DRIVEN PILING FOR TEMPORARY SHORING FROM STATION -L- 50+55±, 42' LT, TO STATION -L- 51+66±, 47' RT WILL NOT PENETRATE BELOW ELEVATION 1,820± FT DUE TO OBSTRUCTIONS, VERY DENSE OR HARD SOIL, BOULDERS OR WEATHERED OR HARD ROCK.



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Asheville NC, 28806



TEMPORARY SHORING NOTES

THE TEMPORARY SHORING NOTES SHOWN ON THIS SHEET WERE PROVIDED THROUGH A SEALED DOCUMENT FROM THE GEOTECHNICAL ENGINEERING ENGINEER. THE DOCUMENT WAS SUBMITTED TO JMT ON (MAY 14, 2025) AND SEALED BY A PROFESSIONAL ENGINEER, (MICHAEL H. STEPHENS), LICENSE # 28893.

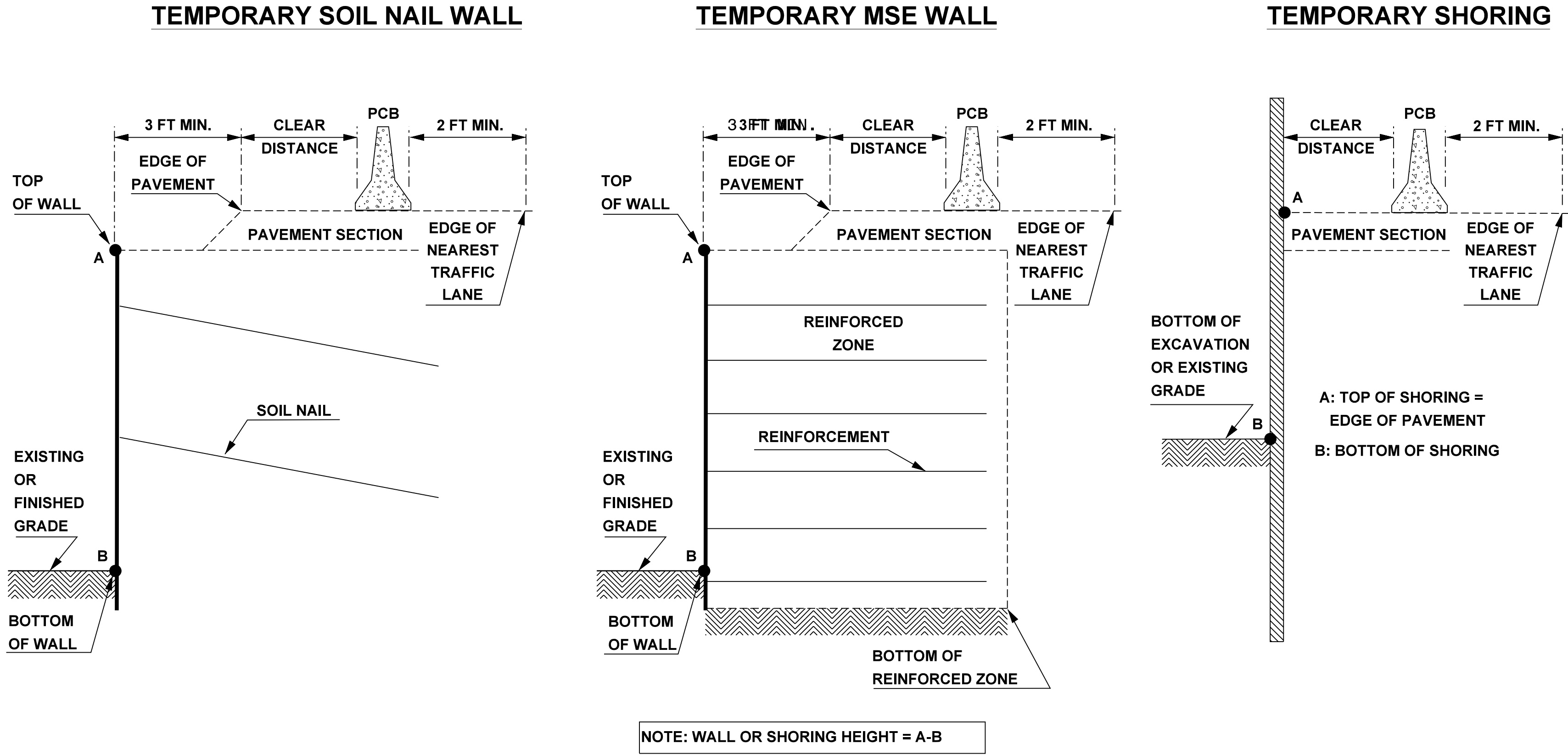


FIGURE A

NOTES

- 1- REFER TO THE TRAFFIC CONTROL PLANS FOR TEMPORARY SHORING LOCATIONS AND NOTES.
- 2- REFER TO THE "TEMPORARY SHORING" STANDARD PROVISION FOR INFORMATION ABOUT TEMPORARY SHORING AND PORTABLE CONCRETE BARRIER (PCB).
- 3- PCB IS REQUIRED IF TEMPORARY SHORING/WALL IS LOCATED WITHIN THE CLEAR ZONE IN ACCORDANCE WITH THE AASHTO ROADSIDE DESIGN GUIDE. DO NOT PLACE BARRIER DIRECTLY ON ANY SURFACE OTHER THAN ASPHALT OR CONCRETE. (CONTACT NCDOT PAVEMENT MANAGEMENT FOR APPLICABLE PAVEMENT DESIGN).
- 4- BASED ON THE CLEAR DISTANCE, OFFSET, DESIGN SPEED AND PAVEMENT TYPE, CHOOSE AN UNANCHORED OR ANCHORED PCB FROM THE TABLE SHOWN IN FIGURE B. CLEAR DISTANCE IS DEFINED AS SHOWN IN FIGURE A AND OFFSET IS DEFINED AS SHOWN IN FIGURE B.
- 5- AT THE CONTRACTOR'S OPTION OR IF THE MINIMUM REQUIRED CLEAR DISTANCE IS NOT AVAILABLE, SET PCB NEXT TO AND UP AGAINST THE TRAFFIC SIDE OF THE TEMPORARY SHORING/WALLS EXCEPT FOR BARRIER ABOVE TEMPORARY WALLS. PCB WITH THE MINIMUM REQUIRED CLEAR DISTANCE IS REQUIRED ABOVE TEMPORARY WALLS.
- 6- USE NCDOT PORTABLE CONCRETE BARRIER (PCB) IN ACCORDANCE WITH ROADWAY STANDARD DRAWING NO. 1170.01 AND SECTION 1170 OF THE STANDARD SPECIFICATIONS.
- 7- SET PCB WITH A MINIMUM HORIZONTAL DISTANCE OF 2 FT BETWEEN THE FRONT FACE OF THE BARRIER AND THE EDGE OF THE NEAREST TRAFFIC LANE AS SHOWN IN FIGURE A UNLESS OTHERWISE SHOWN IN THE PLANS OR APPROVED BY THE ENGINEER.
- 8- FOR PCB ABOVE AND BEHIND TEMPORARY WALLS, PROVIDE A MINIMUM DISTANCE OF 3 FT BETWEEN THE EDGE OF PAVEMENT AND THE WALL FACE AS SHOWN IN FIGURE A. IF THIS MINIMUM REQUIRED DISTANCE IS NOT AVAILABLE, CONTACT THE ENGINEER.
- 9- TABLE SHOWN IN FIGURE B IS BASED ON NCDOT RESEARCH PROJECT NO. 2005-010 WITH VEHICLE TYPE USED FOR NCHRP 350 CRASH TESTS.

MINIMUM REQUIRED CLEAR DISTANCE, inches

| Barrier Type | Pavement Type | Offset * ft | Design Speed, mph | | | | | |
|----------------|--|----------------|--------------------------|-------|-------|-------|-------|-------|
| | | | <30 | 31-40 | 41-50 | 51-60 | 61-70 | 71-80 |
| Unanchored PCB | Asphalt | <8 | 24 | 26 | 29 | 32 | 36 | 40 |
| | | 8-14 | 26 | 28 | 31 | 35 | 38 | 42 |
| | | 14-20 | 27 | 29 | 34 | 36 | 39 | 43 |
| | | 20-26 | 28 | 31 | 35 | 38 | 40 | 44 |
| | | 26-32 | 29 | 32 | 36 | 39 | 42 | 45 |
| | | 32-38 | 30 | 34 | 38 | 41 | 43 | 46 |
| | | 38-44 | 31 | 34 | 41 | 43 | 45 | 48 |
| | | 44-50 | 31 | 35 | 41 | 43 | 46 | 49 |
| | Concrete | 50-56 | 32 | 36 | 42 | 44 | 47 | 50 |
| | | >56 | 32 | 36 | 42 | 45 | 47 | 51 |
| | | <8 | 17 | 18 | 21 | 22 | 25 | 26 |
| | | 8-14 | 19 | 20 | 23 | 25 | 26 | 29 |
| | | 14-20 | 22 | 22 | 24 | 26 | 28 | 31 |
| | | 20-26 | 23 | 24 | 26 | 27 | 30 | 34 |
| | | 26-32 | 24 | 25 | 27 | 28 | 32 | 35 |
| | | 32-38 | 24 | 26 | 27 | 30 | 33 | 36 |
| Anchored PCB | Asphalt | 38-44 | 25 | 26 | 28 | 30 | 34 | 37 |
| | | 44-50 | 26 | 26 | 28 | 32 | 35 | 37 |
| Anchored PCB | Concrete (including bridge approach slabs) | 50-56 | 26 | 26 | 28 | 32 | 35 | 38 |
| | | >56 | 26 | 27 | 29 | 32 | 36 | 38 |
| Anchored PCB | Asphalt | All Offsets | 24 for All Design Speeds | | | | | |
| | | All Offsets | 12 for All Design Speeds | | | | | |

* See Figure Below

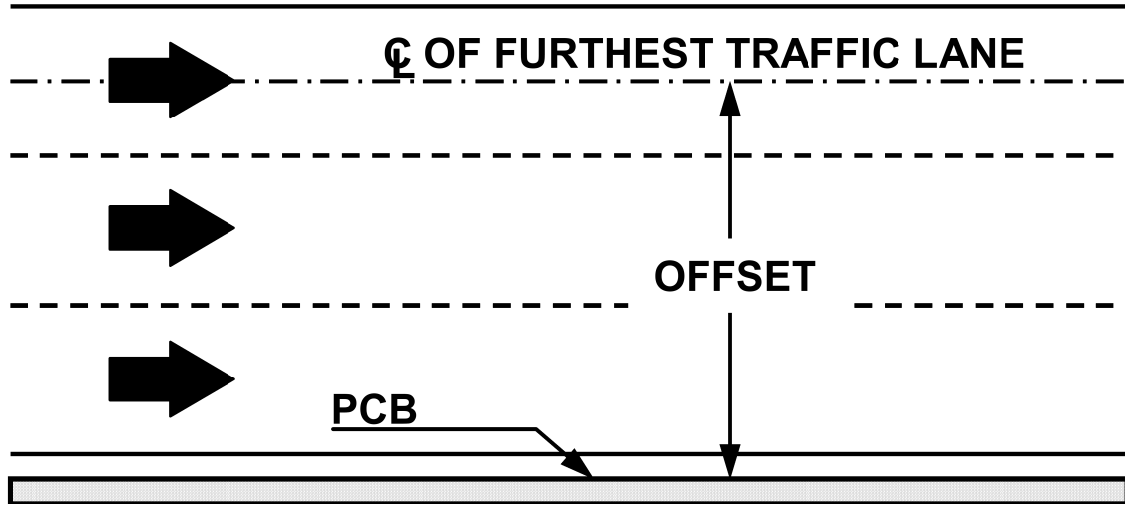


FIGURE B

APPROVED:

DATE: 7/22/2025 | 11:17:39 AM PDT

DocuSigned by:

Professional Engineer LLOYD D. BROWN

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

DIVISION OF HIGHWAYS

STATE OF NORTH CAROLINA

DEPARTMENT OF TRANSPORTATION

WORK ZONE TRAFFIC CONTROL

PORTABLE CONCRETE BARRIER AT TEMPORARY SHORING LOCATIONS

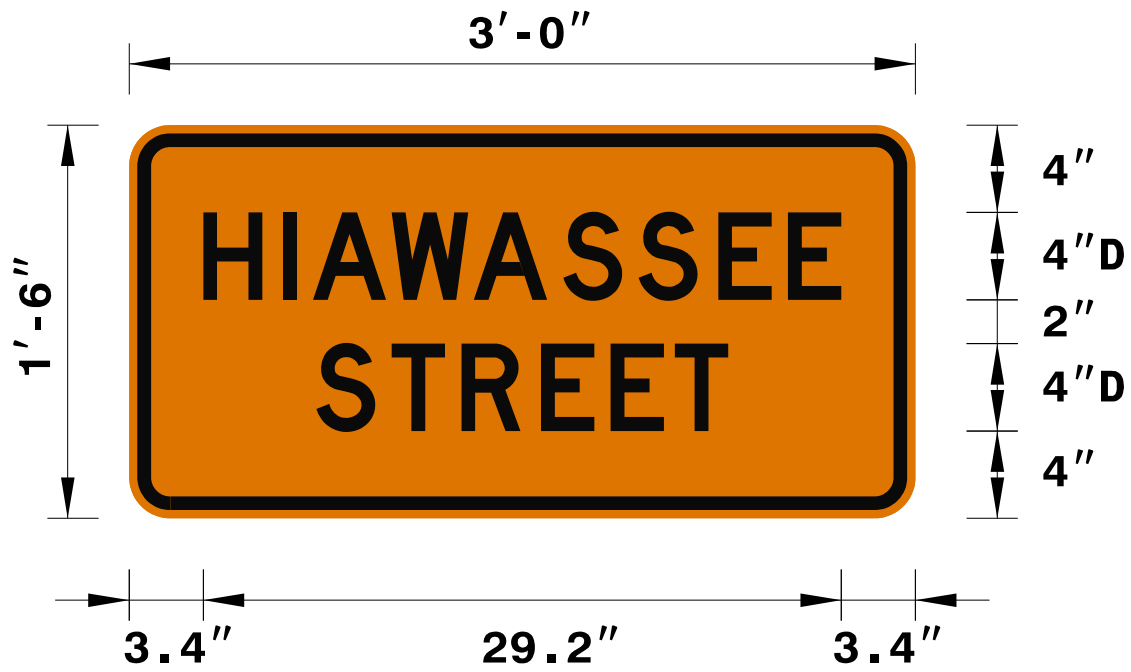
DATE: Apr 8, 2019

[illegible]

MAT'L: 0.125" (3.2 mm) ALUMINUM

1. Legend and border shall be direct applied black non-reflective sheeting.
2. Background shall be NC grade B fluorescent orange retroreflective sheeting.

IN=0.38"



Spacing Factor is 1 unless specified otherwise

LETTER POSITIONS

[illegible]

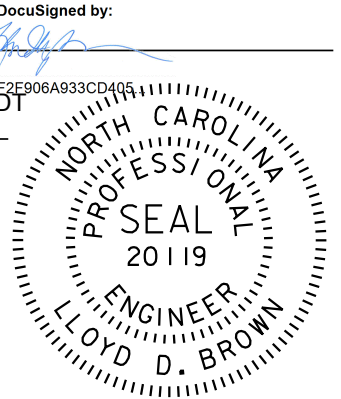
NORTH CAROLINA D.O.T. SIGN DETAIL



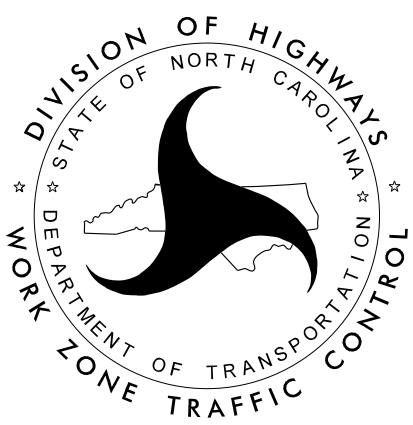
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Asheville NC, 28806

DATE:

7/22/2025 | 11:17:39 AM PD

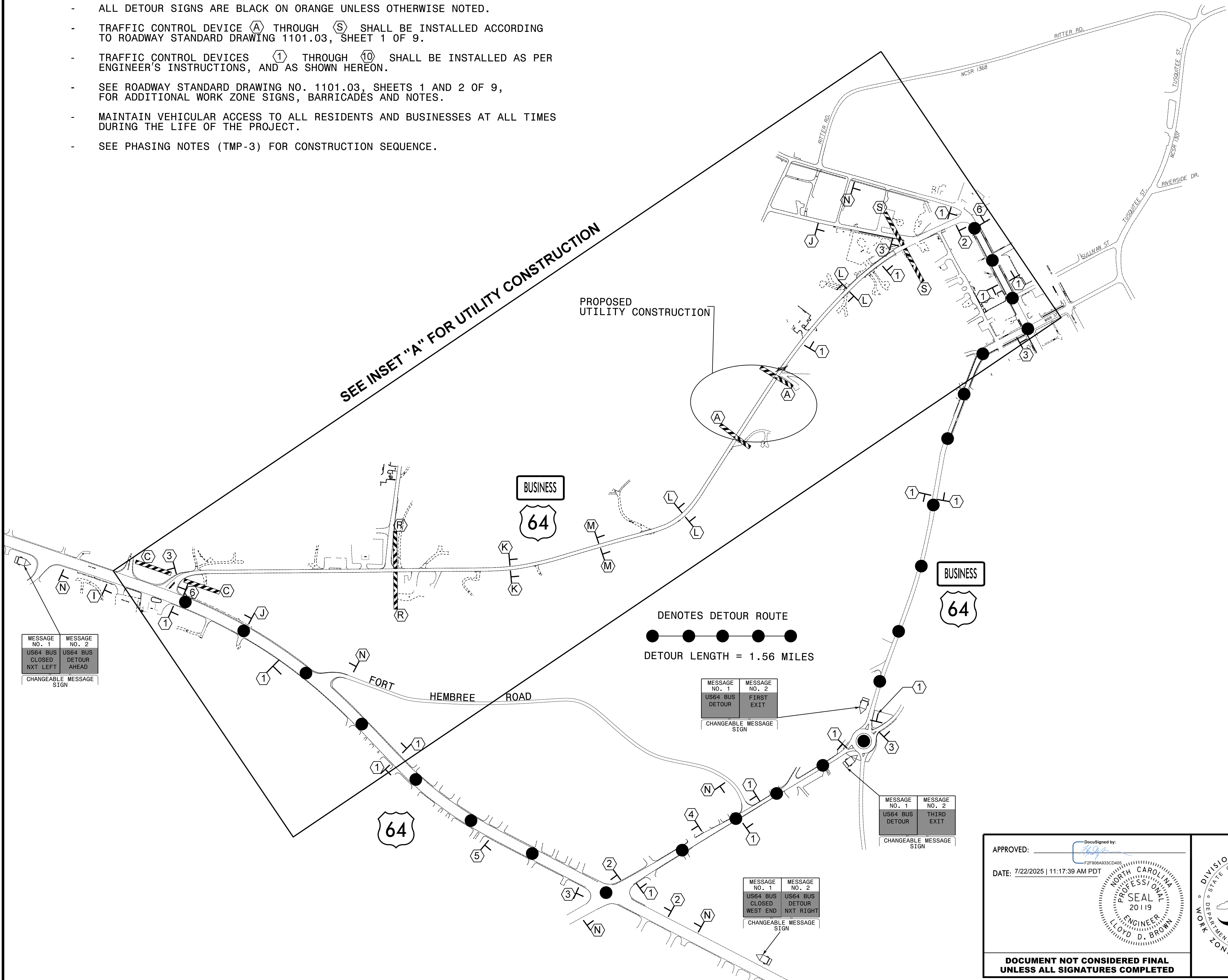


**DOCUMENT NOT CONSIDERED FINAL
UNLESS ALL SIGNATURES COMPLETED**

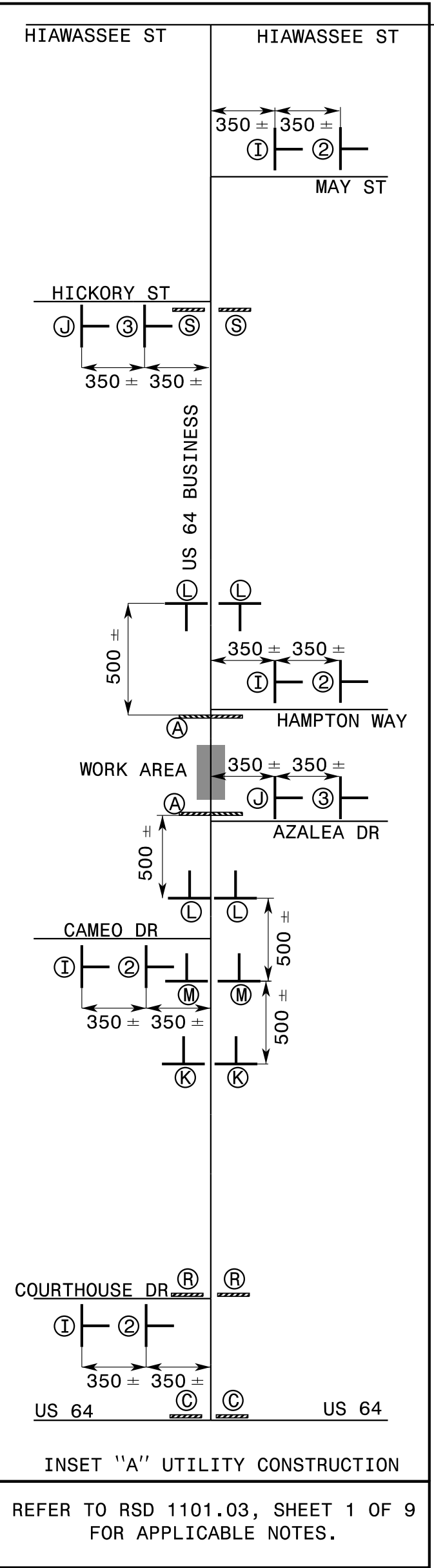


SPECIAL SIGN DESIGN

- NOTES 1:
- SEE SHEETS TMP-1B FOR OFF-SITE DETOUR SIGN AND DEVICE LEGEND.
 - ALL DETOUR SIGN LOCATIONS ARE APPROXIMATE.
 - ALL DETOUR SIGNS ARE BLACK ON ORANGE UNLESS OTHERWISE NOTED.
 - TRAFFIC CONTROL DEVICE (A) THROUGH (S) SHALL BE INSTALLED ACCORDING TO ROADWAY STANDARD DRAWING 1101.03, SHEET 1 OF 9.
 - TRAFFIC CONTROL DEVICES (1) THROUGH (10) SHALL BE INSTALLED AS PER ENGINEER'S INSTRUCTIONS, AND AS SHOWN HEREON.
 - SEE ROADWAY STANDARD DRAWING NO. 1101.03, SHEETS 1 AND 2 OF 9, FOR ADDITIONAL WORK ZONE SIGNS, BARRICADES AND NOTES.
 - MAINTAIN VEHICULAR ACCESS TO ALL RESIDENTS AND BUSINESSES AT ALL TIMES DURING THE LIFE OF THE PROJECT.
 - SEE PHASING NOTES (TMP-3) FOR CONSTRUCTION SEQUENCE.



INSET "A"



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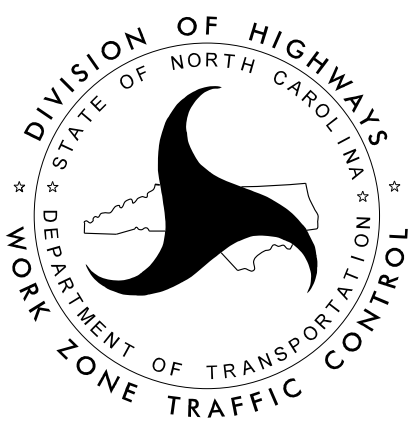
US 64 BUSINESS OFF-SITE DETOUR: PHASE 1

APPROVED: _____

DATE: 7/22/2025 | 11:17:39 AM PDT



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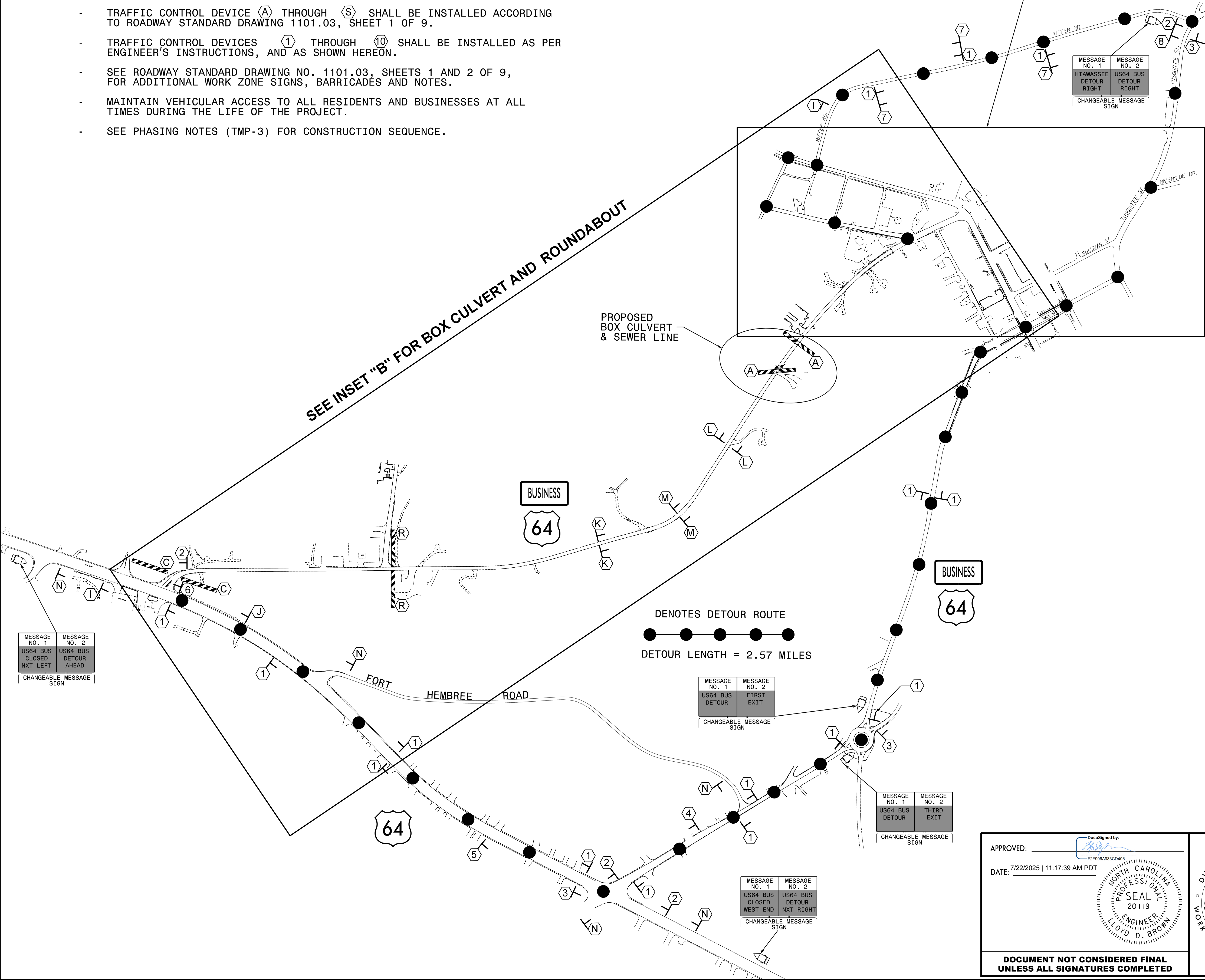
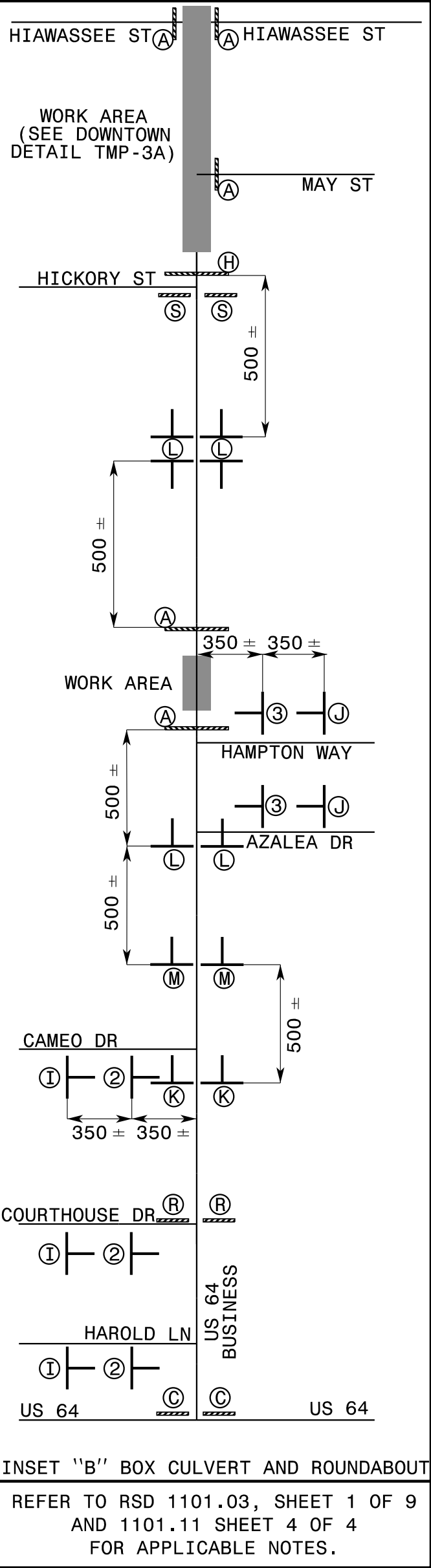


| PROJ. REFERENCE NO. | SHEET NO. |
|---------------------|-----------|
| R-5863 | TMP-2B |

- NOTES 1:
- SEE SHEET TMP-1B FOR OFF-SITE DETOUR SIGN AND DEVICE LEGEND.
 - ALL DETOUR SIGN LOCATIONS ARE APPROXIMATE.
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 - TRAFFIC CONTROL DEVICE (A) THROUGH (S) SHALL BE INSTALLED ACCORDING TO ROADWAY STANDARD DRAWING 1101.03, SHEET 1 OF 9.
 - TRAFFIC CONTROL DEVICES (1) THROUGH (10) SHALL BE INSTALLED AS PER ENGINEER'S INSTRUCTIONS, AND AS SHOWN HEREON.
 - SEE ROADWAY STANDARD DRAWING NO. 1101.03, SHEETS 1 AND 2 OF 9, FOR ADDITIONAL WORK ZONE SIGNS, BARRICADES AND NOTES.
 - MAINTAIN VEHICULAR ACCESS TO ALL RESIDENTS AND BUSINESSES AT ALL TIMES DURING THE LIFE OF THE PROJECT.
 - SEE PHASING NOTES (TMP-3) FOR CONSTRUCTION SEQUENCE.

SEE DOWNTOWN DETAIL TMP-2C
FOR ROUNDABOUT CONSTRUCTION

INSET "B"



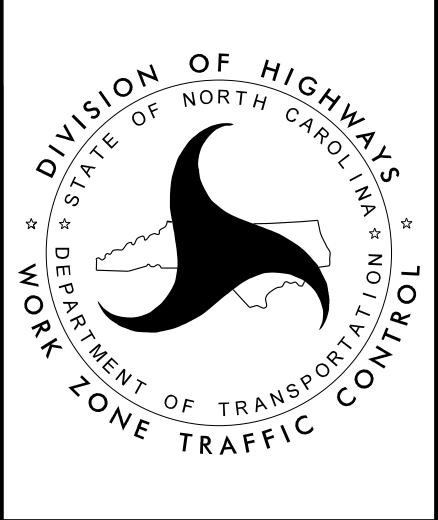
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NORTH CAROLINA
PROFESSIONAL
SEAL
20119
ENGINEER
LLOYD D. BROWN

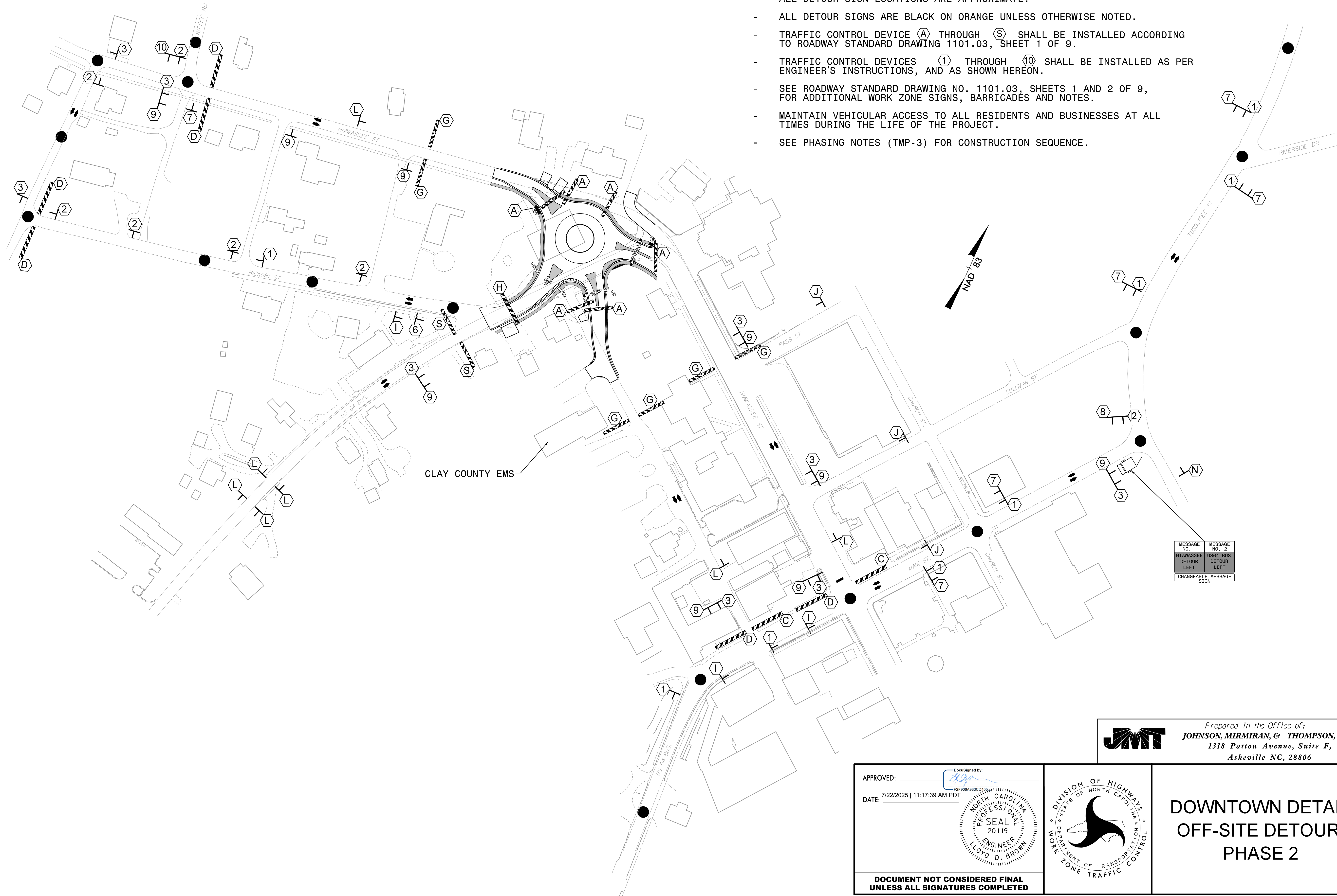
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**US 64 BUSINESS/
HIAWASSEE ST.
OFF-SITE DETOUR:
PHASE 2**

| PROJ. REFERENCE NO. | SHEET NO. |
|---------------------|-----------|
| R-5863 | TMP-2C |


- NOTES 1:
- SEE SHEET TMP-1B FOR OFF-SITE DETOUR SIGN AND DEVICE LEGEND.
 - ALL DETOUR SIGN LOCATIONS ARE APPROXIMATE.
 - ALL DETOUR SIGNS ARE BLACK ON ORANGE UNLESS OTHERWISE NOTED.
 - TRAFFIC CONTROL DEVICE (A) THROUGH (S) SHALL BE INSTALLED ACCORDING TO ROADWAY STANDARD DRAWING 1101.03, SHEET 1 OF 9.
 - TRAFFIC CONTROL DEVICES (1) THROUGH (10) SHALL BE INSTALLED AS PER ENGINEER'S INSTRUCTIONS, AND AS SHOWN HEREON.
 - SEE ROADWAY STANDARD DRAWING NO. 1101.03, SHEETS 1 AND 2 OF 9, FOR ADDITIONAL WORK ZONE SIGNS, BARRICADES AND NOTES.
 - MAINTAIN VEHICULAR ACCESS TO ALL RESIDENTS AND BUSINESSES AT ALL TIMES DURING THE LIFE OF THE PROJECT.
 - SEE PHASING NOTES (TMP-3) FOR CONSTRUCTION SEQUENCE.

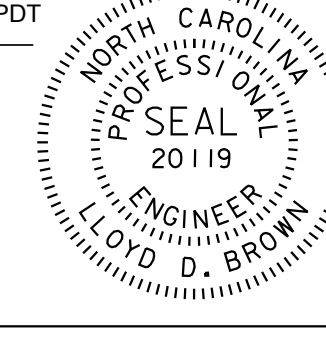


| | |
|---|---|
| MESSAGE NO. 1 HIWASSEE DETOUR LEFT | MESSAGE NO. 2 US64 BUS DETOUR LEFT |
| CHANGEABLE MESSAGE SIGN | |



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LLOYD D. BROWN

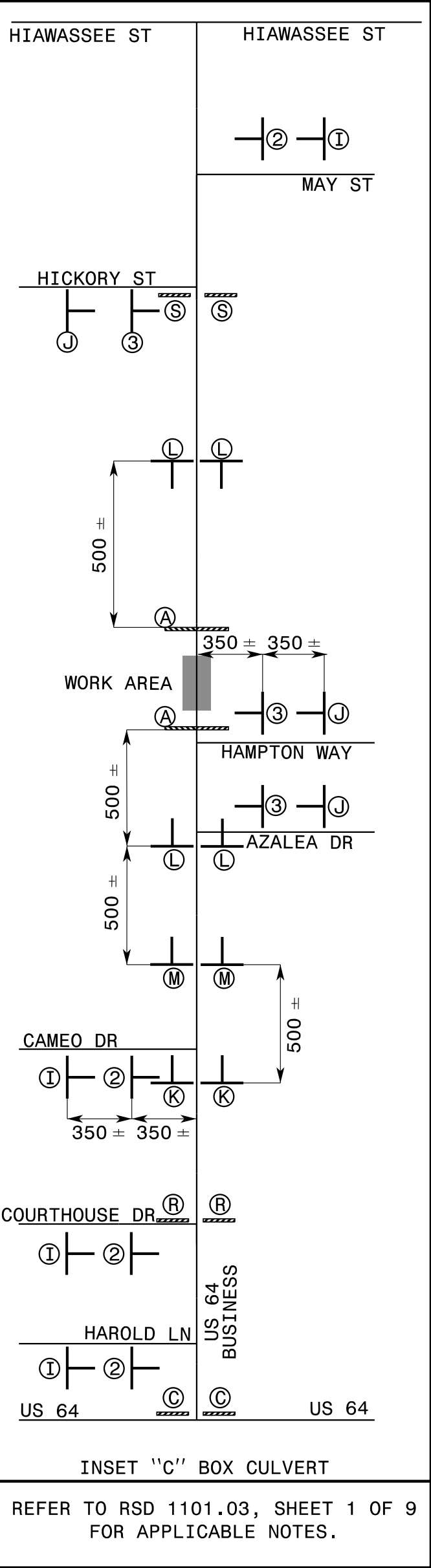
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DOWNTOWN DETAIL
OFF-SITE DETOUR:
PHASE 2

- NOTES 1:
- SEE SHEET TMP-1B FOR OFF-SITE DETOUR SIGN AND DEVICE LEGEND.
 - ALL DETOUR SIGN LOCATIONS ARE APPROXIMATE.
 - ALL DETOUR SIGNS ARE BLACK ON ORANGE UNLESS OTHERWISE NOTED.
 - TRAFFIC CONTROL DEVICE (A) THROUGH (S) SHALL BE INSTALLED ACCORDING TO ROADWAY STANDARD DRAWING 1101.03, SHEET 1 OF 9.
 - TRAFFIC CONTROL DEVICES (1) THROUGH (10) SHALL BE INSTALLED AS PER ENGINEER'S INSTRUCTIONS, AND AS SHOWN HEREON.
 - SEE ROADWAY STANDARD DRAWING NO. 1101.03, SHEETS 1 AND 2 OF 9, FOR ADDITIONAL WORK ZONE SIGNS, BARRICADES AND NOTES.
 - MAINTAIN VEHICULAR ACCESS TO ALL RESIDENTS AND BUSINESSES AT ALL TIMES DURING THE LIFE OF THE PROJECT.
 - SEE PHASING NOTES (TMP-3) FOR CONSTRUCTION SEQUENCE.

INSET "C"



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ENGINEER

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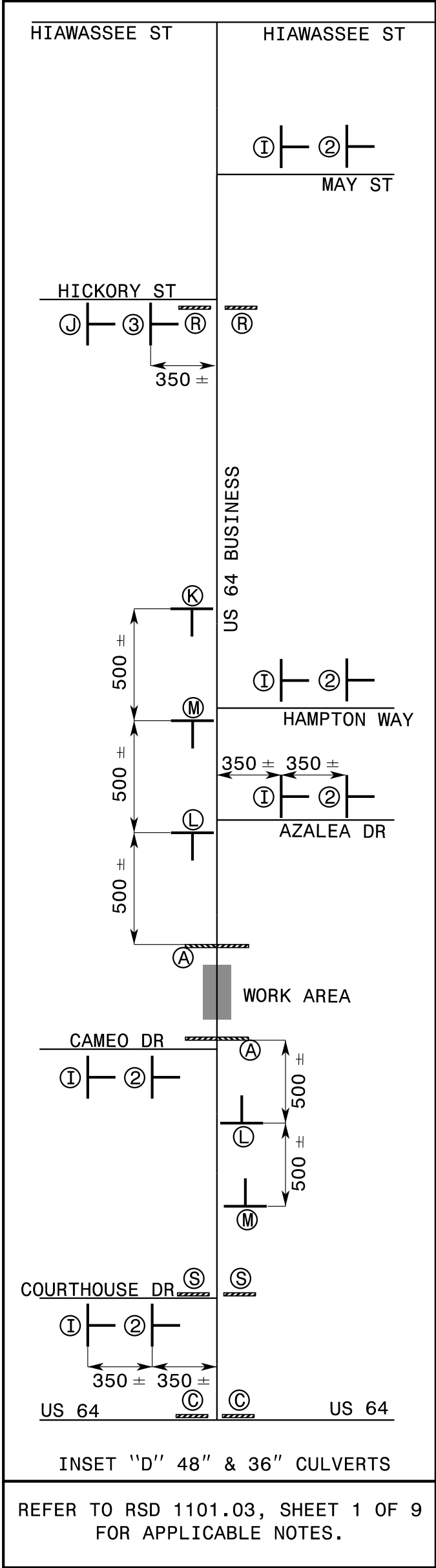


**US 64 BUSINESS
OFFSITE DETOUR FOR
BOX CULVERT
CONSTRUCTION
PHASE 2**

| PROJ. REFERENCE NO. | SHEET NO. |
|---------------------|-----------|
| R-5863 | TMP-2E |

- NOTES 1:
- SEE SHEETS TMP-1B FOR OFF-SITE DETOUR SIGN AND DEVICE LEGEND.
 - ALL DETOUR SIGN LOCATIONS ARE APPROXIMATE.
 - ALL DETOUR SIGNS ARE BLACK ON ORANGE UNLESS OTHERWISE NOTED.
 - TRAFFIC CONTROL DEVICE (A) THROUGH (S) SHALL BE INSTALLED ACCORDING TO ROADWAY STANDARD DRAWING 1101.03, SHEET 1 OF 9.
 - TRAFFIC CONTROL DEVICES (1) THROUGH (10) SHALL BE INSTALLED AS PER ENGINEER'S INSTRUCTIONS, AND AS SHOWN HEREON.
 - SEE ROADWAY STANDARD DRAWING NO. 1101.03, SHEETS 1 AND 2 OF 9, FOR ADDITIONAL WORK ZONE SIGNS, BARRICADES AND NOTES.
 - MAINTAIN VEHICULAR ACCESS TO ALL RESIDENTS AND BUSINESSES AT ALL TIMES DURING THE LIFE OF THE PROJECT.
 - SEE PHASING NOTES (TMP-3) FOR CONSTRUCTION SEQUENCE.

INSET "D"



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**US 64 BUSINESS
OFF-SITE DETOUR:
PHASE 3**

PHASING

| PROJ. REFERENCE NO. | SHEET NO. |
|---------------------|-----------|
| R - 5863 | TMP - 3 |

PHASE I

- STEP 1:

-

ERECT WORK ZONE ADVANCED WARNING SIGNS USING DETAIL DRAWINGS FOR WORK ZONE SIGNS USING ROADWAY STANDARD DRAWING NO. (RSD) 1101.01, SHEET 3 OF 3.
- NOTE:

STEP 2 SHALL BE COMPLETED IN A CONTINUOUS OPERATION.
- STEP 2:

-

USING FLAGGERS AS NECESSARY, PLACE TRAFFIC CONTROL DEVICES, AND CLOSE TURN LANE AND WESTERN ENTRANCE OF HOT SPOT GAS STATION.
- STEP 3:

-

USING RSD 1101.02, SHEET 3 OF 19, REMOVE EXISTING ISLAND, INSTALL PROPOSED DRAINAGE, AND INSTALL TEMPORARY SIGNALS AND COVER THEM.
- STEP 4:

-

USING RSD 1101.02, SHEET 3 OF 19, CONSTRUCT PROPOSED CONCRETE ISLAND, PLACE NECESSARY PAVEMENT, AND INSTALL TUBULAR MARKERS.
- COMPLETE THE WORK OF PHASE I, STEPS 5 THRU 8 IN 20 CONSECUTIVE CALENDAR DAYS. SEE INTERMEDIATE CONTRACT TIME AND LIQUIDATED DAMAGES.
- STEP 5:

-

USING RSD 1101.02, SHEETS 1 AND 3 OF 19, AND FLAGGERS AS NECESSARY, ERECT DETOUR SIGNS AND COVER (SEE SHEET TMP-2A).
- STEP 6:

-

USING RSD 1101.03, SHEET 1 OF 9, AND FLAGGERS AS NECESSARY, UNCOVER DETOUR SIGNS PLACED IN STEP 5, AND CLOSE US 64 BUSINESS -L-, FROM -L- STA. 46+35 +/- TO -L- STA. 50+80 +/- (SEE SHEET TMP-2A).
- STEP 7:

-

AWAY FROM TRAFFIC PERFORM THE FOLLOWING:
- CONSTRUCT SS-2, SS-3, AND WL-2 (SEE UC PLANS).
- PATCH US 64 BUSINESS AT UTILITY CROSSINGS.
- CONSTRUCT -Y3- UP TO BUT NOT INCLUDING ANY ASPHALT LAYERS (SEE ROADWAY PLANS).
- STEP 8:

-

COVER US 64 BUSINESS DETOUR SIGNS AND OPEN ROAD TO THROUGH TRAFFIC.

PHASE II

- NOTE:

STEP 1 SHALL BE COMPLETED IN A CONTINUOUS OPERATION.
- STEP 1:

-

USING RSD 1101.02, SHEETS 1 AND 3 OF 19, AND FLAGGERS AS NECESSARY, PERFORM THE FOLLOWING:
- REMOVE, AS NECESSARY, EXISTING PAVEMENT MARKINGS; PLACE TEMPORARY CROSSWALKS AT -L- STATIONS 68+10 +/-, 71+45 +/-, AND 72+55 +/- (PAINT); PLACE STRIPED WALKPATH FROM -L- STA. 68+10 +/- TO -L- STA. 68+84 +/- (LEFT), AND -L- STA. 70+66 +/- TO -L- STA. 72+55 +/- (LEFT) (PAINT); INSTALL TEMPORARY CURB RAMP; INSTALL PEDESTRIAN BARRICADES; AND CLOSE ALL SIDEWALKS ENTERING WORK AREA (SEE SHEETS TMP-8 THRU TMP-10).
- CONTRACTOR WILL NEED TO FULLY CLOSE THE SIDEWALK FOR ONE CALENDAR DAY TO CONSTRUCT CURBING AND CURB RAMPS AT THE CORNER OF PASS STREET AND US 64 BUSINESS.
- SHIFT PEDESTRIAN TRAFFIC TO NEW PATTERN. WHERE NECESSARY, DETOUR PEDESTRIANS USING A PEDESTRIAN TRANSPORT SERVICE (SEE SHEETS TMP-8 THRU TMP-10).
- RESET DETOUR SIGNS AND COVER (SEE SHEETS TMP-2B AND TMP-2C).
- REMOVE, AS NECESSARY, EXISTING PAVEMENT MARKINGS, PLACE TEMPORARY PAVEMENT MARKINGS (PAINT), RESET TRAFFIC CONTROL DEVICES, AND UNCOVER AND ACTIVATE SIGNAL INSTALLED IN PHASE 1, STEP 3 (SEE SHEETS TMP-5 THRU TMP-10, AND SIGNAL PLANS).
- NOTE:

STEP 2 IS TO BE COMPLETED IN A SIMULTANEOUS OPERATION WITH STEPS 2A THRU 2E, WHILE MAINTAINING ACCESS TO ALL RESIDENCES AND BUSINESSES AT ALL TIMES.
- COMPLETE THE WORK OF PHASE II, STEP 2 IN 90 CONSECUTIVE CALENDAR DAYS. SEE INTERMEDIATE CONTRACT TIME AND LIQUIDATED DAMAGES.
- STEP 2:

-

USING RSD 1101.03, SHEETS 1 AND 2 OF 9, AND FLAGGERS AS NECESSARY, UNCOVER DETOUR SIGNS PLACED IN STEP 1, AND CLOSE US 64 BUSINESS, HIAWASSEE ST., FROM -L- STA. 62+40 +/- TO -L- STA. 65+65 +/-; CLOSE HIAWASSEE ST. AT -Y5- STA. 11+40 +/- AND CLOSE MAY ST. AT -Y7- STA. 11+35 +/- (SEE SHEETS TMP-2B AND TMP-2C).
- CONSTRUCT PROPOSED ROADWAY, SIDEWALKS, AND ROUNDABOUT; FROM -L- STA. 62+00 +/- TO -L- STA. 68+10 +/-, FROM -Y5- STA. 10+25 +/- TO -Y5- STA. 12+29 +/-, FROM -Y6- STA. 10+13 +/- TO -Y6- STA. 11+65 +/-, AND FROM -Y7- STA. 10+00 +/- TO -Y7- STA. 12+70 +/-, INCLUDING WEDGING, BUT NOT INCLUDING THE FINAL LAYER OF SURFACE COURSE (SEE SHEETS TMP-8 AND TMP-9).

PHASE II CONT.

- NOTE:

AFTER STEP 2 IS COMPLETED, USING FLAGGERS:
- REMOVE AS NECESSARY, EXISTING PAVEMENT MARKINGS, AND PLACE TEMPORARY PAVEMENT MARKINGS (PAINT), AS NECESSARY (SEE SHEET TMP-15).
- REMOVE HIAWASSEE ST. DETOUR, AND RESET US 64 BUSINESS DETOUR (SEE SHEET TMP-2D).
- OPEN NEWLY CONSTRUCTED ROUNDABOUT TO THROUGH TRAFFIC.
- COMPLETE THE WORK OF PHASE II, STEP 2A IN 170 CONSECUTIVE CALENDAR DAYS. SEE INTERMEDIATE CONTRACT TIME AND LIQUIDATED DAMAGES.
- STEP 2A:

-

USING RSD 1101.03, SHEET 1 OF 9, AND FLAGGERS AS NECESSARY, UNCOVER DETOUR SIGNS PLACED IN STEP 1, CLOSE US 64 BUSINESS AT PROPOSED BOX CULVERT FROM -L- STA. 51+00 +/- TO -L- STA. 53+00 +/-, AND INSTALL PORTABLE CONCRETE BARRIER AT -L- STA. 51+00 +/- (SEE SHEETS TMP-2B AND TMP-7).
- CONSTRUCT PROPOSED BOX CULVERT AT -L- STA. 51+28 +/- (SEE STRUCTURE PLANS).
- CONSTRUCT SS-4 (SEE UC PLANS).
- CONSTRUCT 30" CULVERT AT -L- STA. 53+44 +/- (SEE ROADWAY PLANS).
- USING RSD 1101.02 SHEET 1 OF 19, AND FLAGGERS AS NECESSARY, CONSTRUCT -L- (US 64 BUSINESS) FROM -L- STA. 49+00 +/- TO -L- STA. 54+00 +/-, BUT NOT INCLUDING THE FINAL LAYER OF SURFACE COURSE (SEE SHEETS TMP-7 AND TMP-8).
- NOTE:

AFTER STEP 2A IS COMPLETED, USING FLAGGERS:
- REMOVE AS NECESSARY, EXISTING PAVEMENT MARKINGS, AND PLACE TEMPORARY PAVEMENT MARKINGS (PAINT) AS NECESSARY.
- REMOVE PORTABLE CONCRETE BARRIER PLACED IN STEP 2A.
- UNCOVER SIGNS U* AND T* IF NECESSARY (SEE SHEETS TMP-7 AND TMP-8).
- REMOVE US 64 BUSINESS DETOUR AND OPEN ROAD TO THROUGH TRAFFIC.
- STEP 2B:

-

USING RSD 1101.02, SHEET 17 OF 19, INSTALL PORTABLE TRAFFIC SIGNALS AS SHOWN ON SHEET TMP-7.
- USING RSD 1101.02, SHEET 1 OF 19, AND FLAGGERS AS NECESSARY, IN A CONTINUOUS OPERATION, REMOVE AS NECESSARY, EXISTING PAVEMENT MARKINGS, PLACE TEMPORARY PAVEMENT MARKINGS (PAINT), ACTIVATE PORTABLE TRAFFIC SIGNALS, AND DIRECT US 64 BUSINESS TRAFFIC INTO A ONE-LANE TWO-WAY PATTERN IN THE SOUTHBOUND LANE OF US 64 BUSINESS (SEE SHEET TMP-7).
- CONSTRUCT -L- (US 64 BUSINESS) FROM -L-STA. 42+00 +/- TO -L- STA. 49+00 +/- (RIGHT SIDE), INCLUDING WEDGING, BUT NOT INCLUDING THE FINAL LAYER OF SURFACE COURSE (SEE SHEET TMP-7).
- NOTE:

PLACE ONLY TEMPORARY WEDGING, NO CURBING, OR SIDEWALK FROM -L- STA. 39+00 +/- TO -L- STA. 42+00 +/- AREA TO BE CONSTRUCTED IN PHASE 3 AFTER 48" AND 36" CULVERTS ARE INSTALLED.
- STEP 2C:

-

USING RSD 1101.02, SHEET 1 OF 19, AND FLAGGERS AS NECESSARY, CONSTRUCT -L- (US 64 BUSINESS AND HIAWASSEE ST.) FROM -L- STA. 10+30 +/- TO -L- STA. 39+00 +/- (RIGHT SIDE) INCLUDING WEDGING, FROM -L- STA. 54+00 +/- TO -L- STA. 62+00 +/- (RIGHT SIDE) INCLUDING WEDGING, AND FROM -L- STA. 68+10 +/- TO STA. 72+65 +/- (RIGHT SIDE) INCLUDING WEDGING; BUT NOT INCLUDING THE FINAL LAYER OF SURFACE COURSE (SEE SHEETS TMP-5 THRU TMP-9).
- STEP 2D:

-

USING RSD 1101.02, SHEET 1 OF 19, AND FLAGGERS AS NECESSARY, CONSTRUCT -DWY4-, -DWY6-, -DWY7-, -Y3-, AND -Y3A-; BUT NOT INCLUDING THE FINAL LAYER OF SURFACE COURSE (SEE SHEETS TMP-6 THRU TMP-8).
- STEP 2E:

-

USING RSD 1101.02, SHEET 1 OF 19, AND FLAGGERS AS NECESSARY, CONSTRUCT -Y8- (US 64 BUSINESS), PROPOSED CURB, GUTTER, AND SIDEWALK, FROM -Y8- STA. 12+76 +/- TO -Y8- STA. 15+09 +/- (LEFT SIDE). (SEE SHEET TMP-10).

PHASE III

- NOTE:

STEP 1 SHALL BE COMPLETED IN A CONTINUOUS OPERATION.
- STEP 1:

-

USING RSD 1101.02, SHEETS 1 AND 3 OF 19, AND FLAGGERS AS NECESSARY, PERFORM THE FOLLOWING:
- REMOVE, AS NECESSARY, EXISTING PAVEMENT MARKINGS, PLACE TEMPORARY PAVEMENT MARKINGS (PAINT), AND RESET TRAFFIC CONTROL DEVICES. (SEE SHEETS TMP-11 THRU TMP-15).
- SHIFT TRAFFIC AND PEDESTRIANS TO NEW PATTERN. (SEE SHEETS TMP-11 THRU TMP-15).

PHASE III CONT.

- USING RSD 1101.03, SHEET 1 OF 9, AND FLAGGERS AS NECESSARY, IN A CONTINUOUS OPERATION, SET OFF-SITE DETOUR, AND CLOSE -L- (US 64 BUSINESS) AT PROPOSED 48" AND 36" CULVERTS FROM -L- STA. 38+91 +/- TO -L- STA. 42+25 +/- TO THROUGH TRAFFIC (SEE SHEET TMP-2E).
- NOTE:

STEP 2 IS TO BE COMPLETED IN A SIMULTANEOUS OPERATION WITH STEPS 2B THRU 2C, WHILE MAINTAINING ACCESS TO ALL RESIDENCES AND BUSINESSES AT ALL TIMES.
- COMPLETE THE WORK OF PHASE III, STEP 2 IN 60 CONSECUTIVE CALENDAR DAYS. SEE INTERMEDIATE CONTRACT TIME AND LIQUIDATED DAMAGES.
- STEP 2:

-

CONSTRUCT 48" AND 36" CULVERTS AT -L- STA. 39+25 +/- AND -L- STA. 41+83 +/- (SEE ROADWAY PLANS).
- CONSTRUCT -L- (US 64 BUSINESS) FROM -L- STA. 39+00 +/- TO -L- STA. 42+00 +/- (SEE SHEET TMP-13).
- CONSTRUCT -L- (US 64 BUSINESS) FROM -L- STA. 42+00 +/- TO -L- STA. 49+00 +/- (LEFT SIDE) (SEE SHEET TMP-13).
- NOTE:

AFTER STEP 2 IS COMPLETED, USING FLAGGERS:
- REMOVE AS NECESSARY, EXISTING PAVEMENT MARKINGS, AND PLACE TEMPORARY PAVEMENT MARKINGS (PAINT) AS NECESSARY (SEE SHEET TMP-13 DETAIL "A").
- RECONFIGURE TRAFFIC CONTROL DEVICES (SEE SHEET TMP-13 DETAIL "A")
- OPEN -L- (US 64 BUSINESS) TO THROUGH TRAFFIC.
- REMOVE US 64 BUSINESS DETOUR PLACED IN PHASE III, STEP 1.
- STEP 2A:

-

CONSTRUCT WALL #1, WALL #2, AND WALL #3 (SEE STRUCTURE PLANS).
- STEP 2B:

-

USING RSD 1101.02, SHEETS 1 AND 2 OF 19, AND FLAGGERS AS NECESSARY, CONSTRUCT -L- (US 64 BUSINESS AND HIAWASSEE ST.) FROM -L- STA. 10+30 +/- TO -L- STA. 39+00 +/-, FROM -L- STA. 54+00 +/- TO -L- STA. 62+00 +/-, AND FROM -L- STA. 68+10 +/- TO -L- STA. 72+65 +/- (LEFT SIDE), BUT NOT INCLUDING THE FINAL LAYER OF SURFACE COURSE (SEE SHEETS TMP-11 THRU TMP-15).
- STEP 2C:

-

USING RSD 1101.02, SHEET 1 OF 19, AND FLAGGERS AS NECESSARY, CONSTRUCT -DWY1-, -DWY2-, -Y1-, -Y2-, AND -Y4-; BUT NOT INCLUDING THE FINAL LAYER OF SURFACE COURSE (SEE SHEETS TMP-11 THRU TMP-15).

PHASE IV

- STEP1:

-

USING RSD 1101.02, SHEET 1 AND 2 OF 19, AND FLAGGERS AS NECESSARY, MILL EXISTING PAVEMENT AND RESURFACE FROM -Y- STA. 10+95 +/- TO -Y- STA. 16+20 +/-, AND -Y8- STA. 9+63 +/- TO -Y8- STA. 16+44 +/-.
- STEP 2:

-

USING RSD 1101.02, SHEET 1 AND 2 OF 19, AND FLAGGERS AS NECESSARY, PLACE FINAL LAYER OF SURFACE COURSE ON THE ENTIRE PROJECT.
- STEP 3:

-

USING RSD 1101.02, SHEET 14 OF 19, PLACE FINAL PAVEMENT MARKINGS (THERMOPLASTIC) AND MARKERS (SNOWPLOWABLE) ON THE ENTIRE PROJECT. (SEE PMP PLANS).
- STEP 4:

-

INSTALL AND ACTIVATE FINAL PROPOSED TRAFFIC SIGNAL AT INTERSECTION OF -L- (US 64 BUSINESS) AND -Y- (US 64) (SEE SIGNAL PLANS).
- STEP 5:

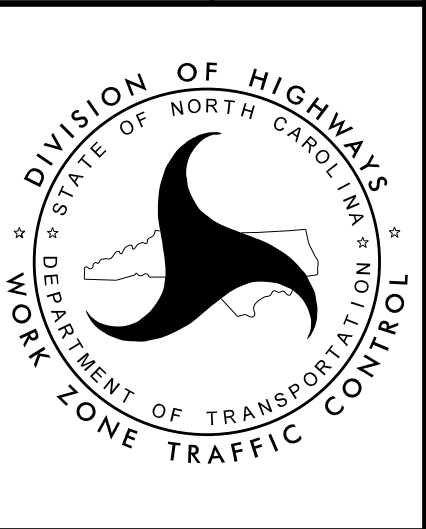
-

USING FLAGGERS AS NECESSARY, REMOVE ALL TEMPORARY TRAFFIC CONTROL DEVICES, AND PLACE TRAFFIC IN ITS FINAL TRAFFIC PATTERN.

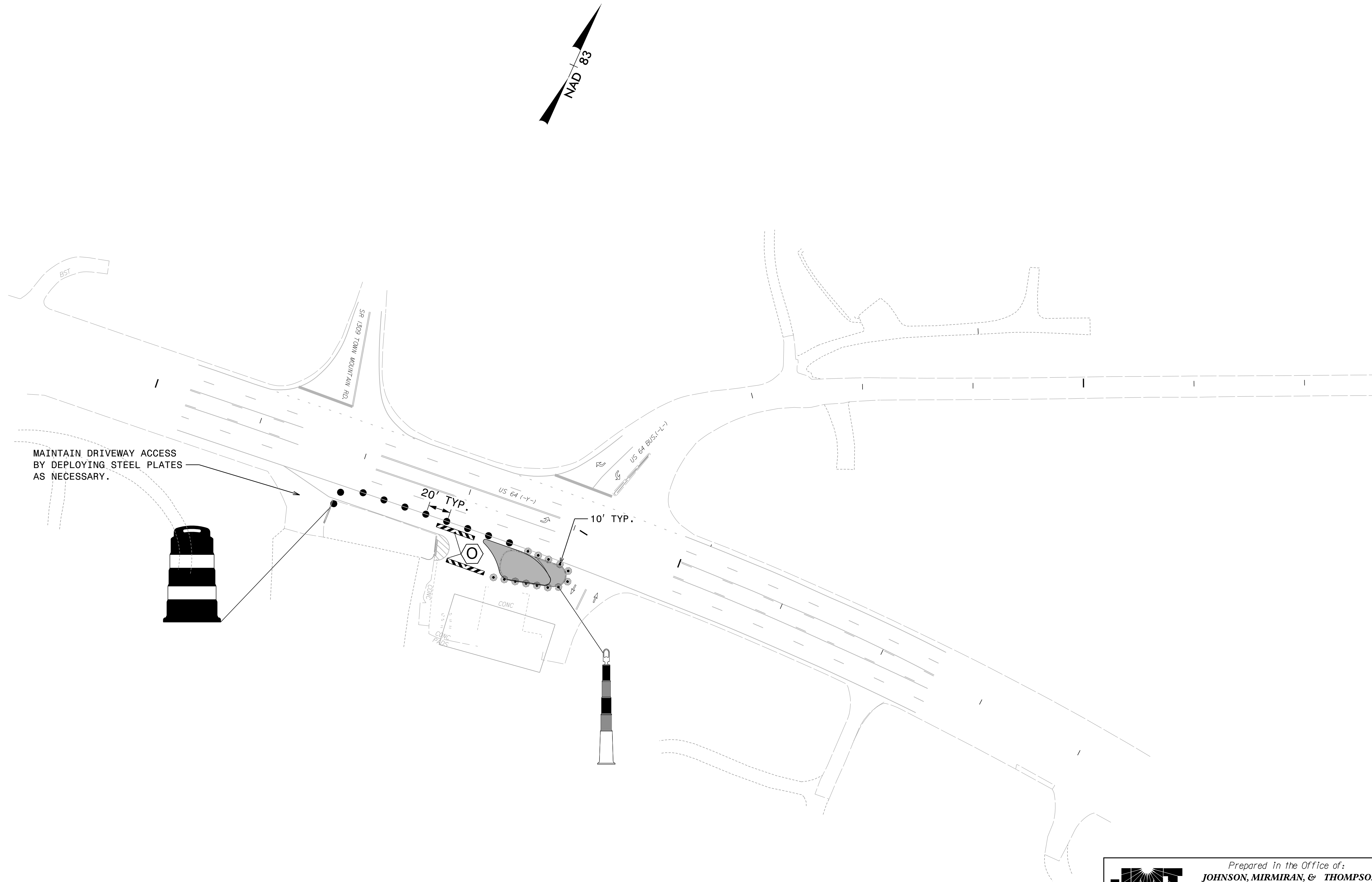


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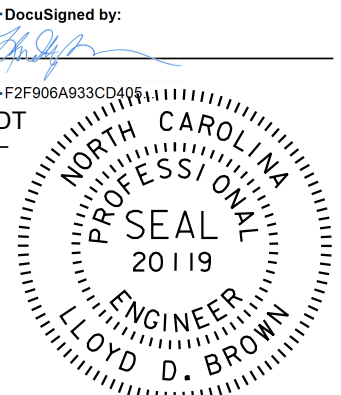
PHASING NOTES



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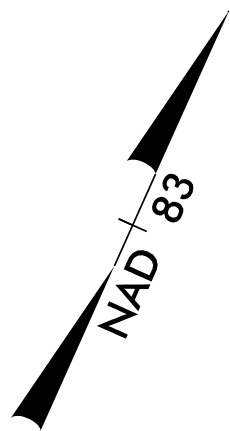
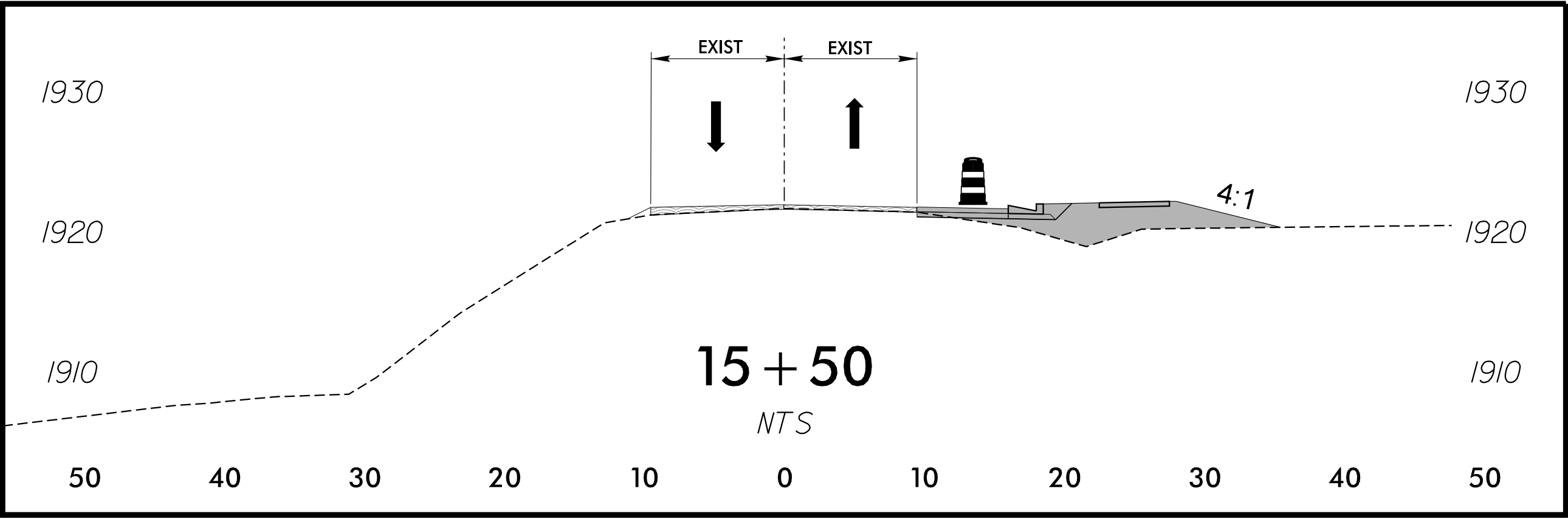
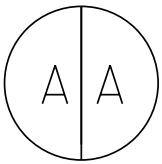


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PHASE I

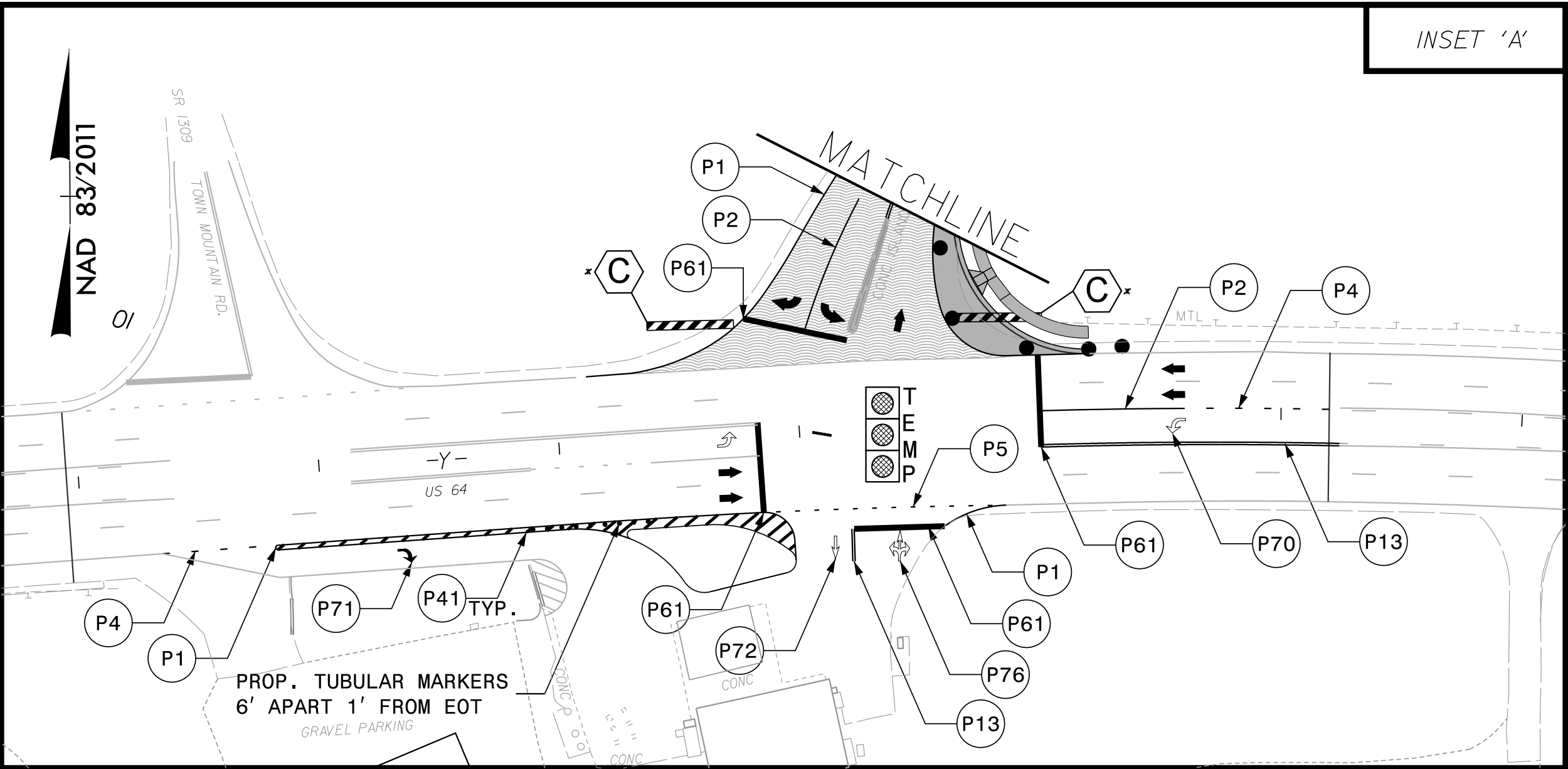
| PROJ. REFERENCE NO. | SHEET NO. |
|---------------------|-----------|
| R-5863 | TMP-5 |



MATCHLINE INSET A -L- STA 11+00

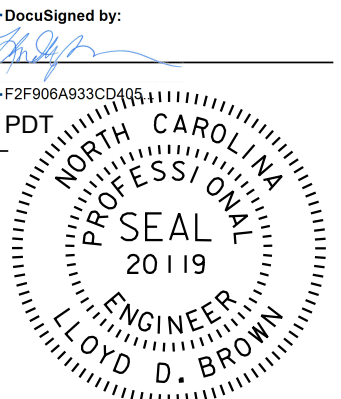
MATCHLINE SHEET TMP-6 -L- STA 24+25

* FOR SIGN LEGEND SEE SHEET TMP-1B.

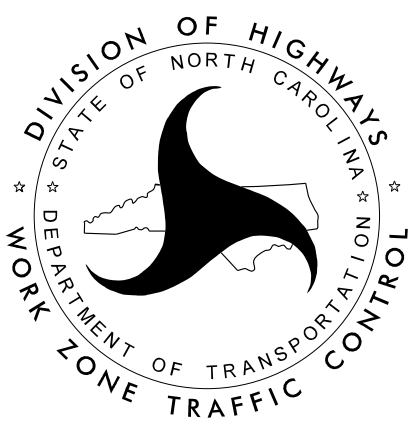


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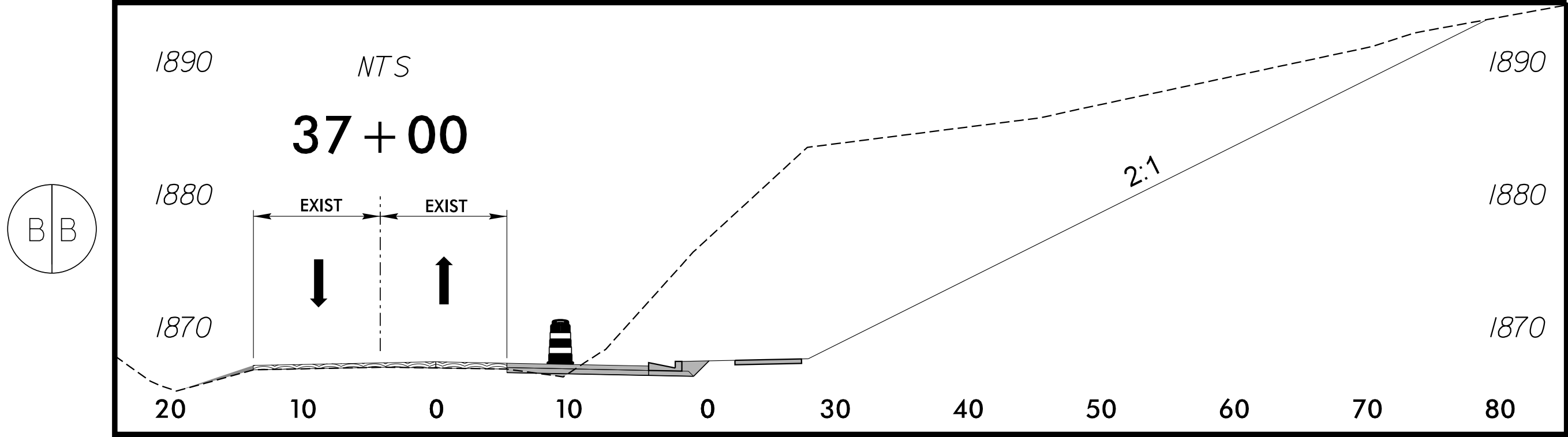
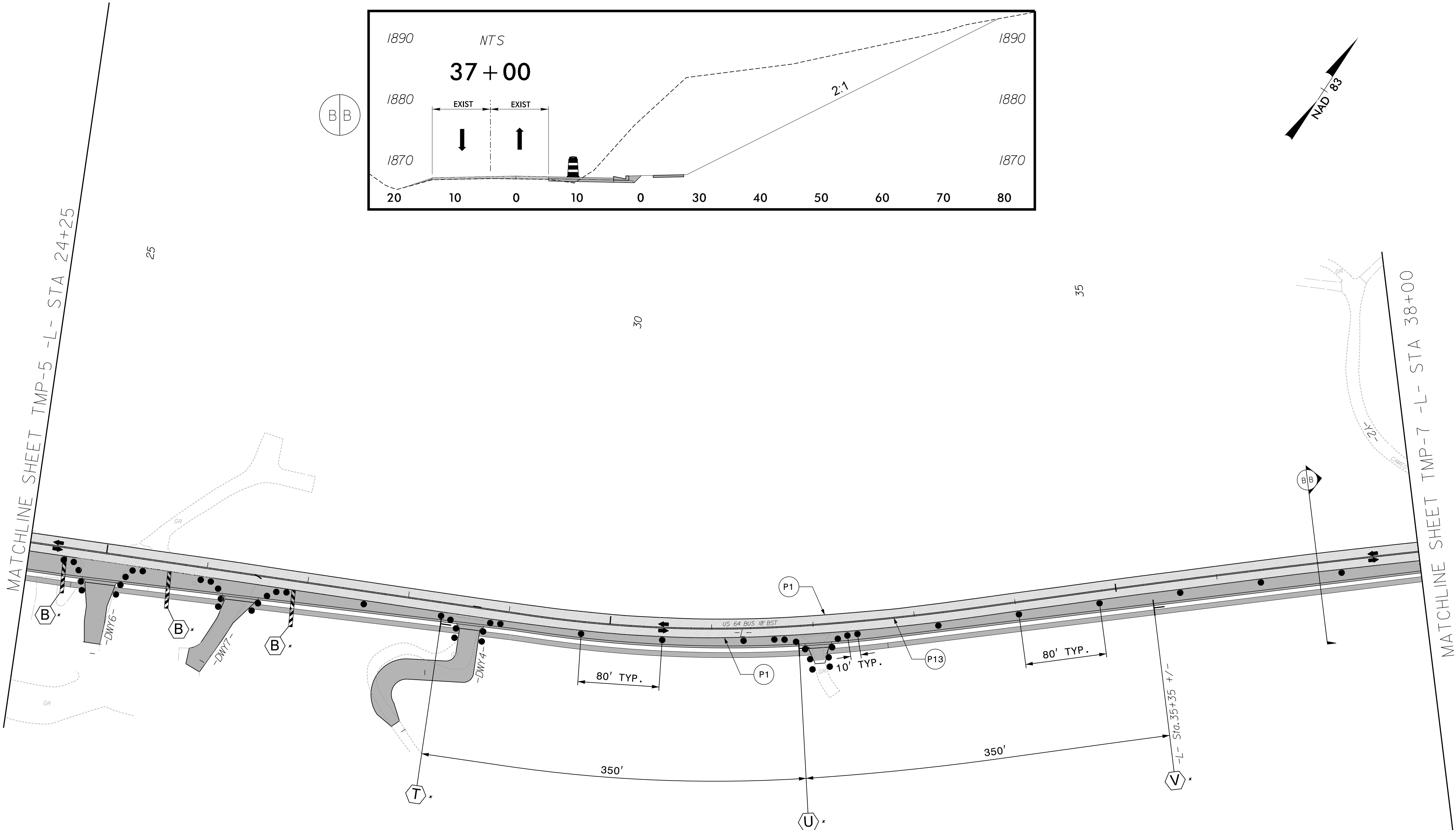


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PHASE II

| PROJ. REFERENCE NO. | SHEET NO. |
|---------------------|-----------|
| R-5863 | TMP-6 |



MATCHLINE SHEET TMP-5 -L- STA 24+25

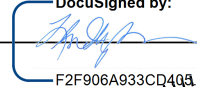
MATCHLINE SHEET TMP-7 -L- STA 38+00

* FOR SIGN LEGEND SEE SHEET TMP-IB.

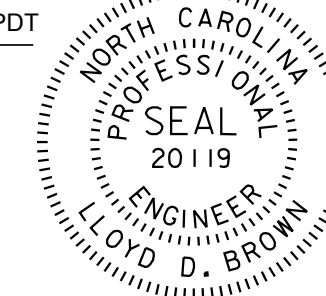


NOTE: - SEE RSD 1101.02 SHEET 17 OF 19 AND RSD 1101.11 SHEETS 1 AND 4 FOR SIGN LAYOUT AHEAD OF PORTABLE TEMPORARY SIGNAL.

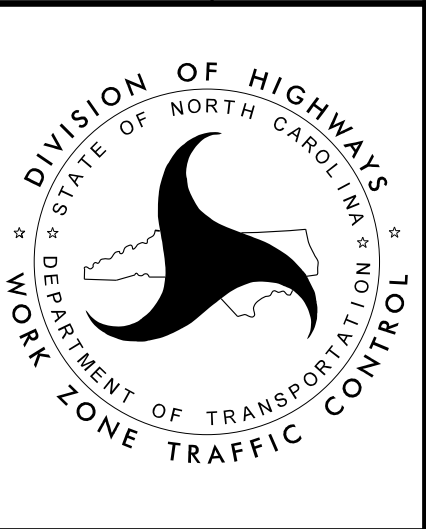
- ADJUST SIGN SPACING AND PORTABLE SIGNAL PLACEMENT AS NECESSARY TO MEET FIELD CONDITIONS. MAINTAIN DRIVEWAY ACCESS AT ALL TIMES.


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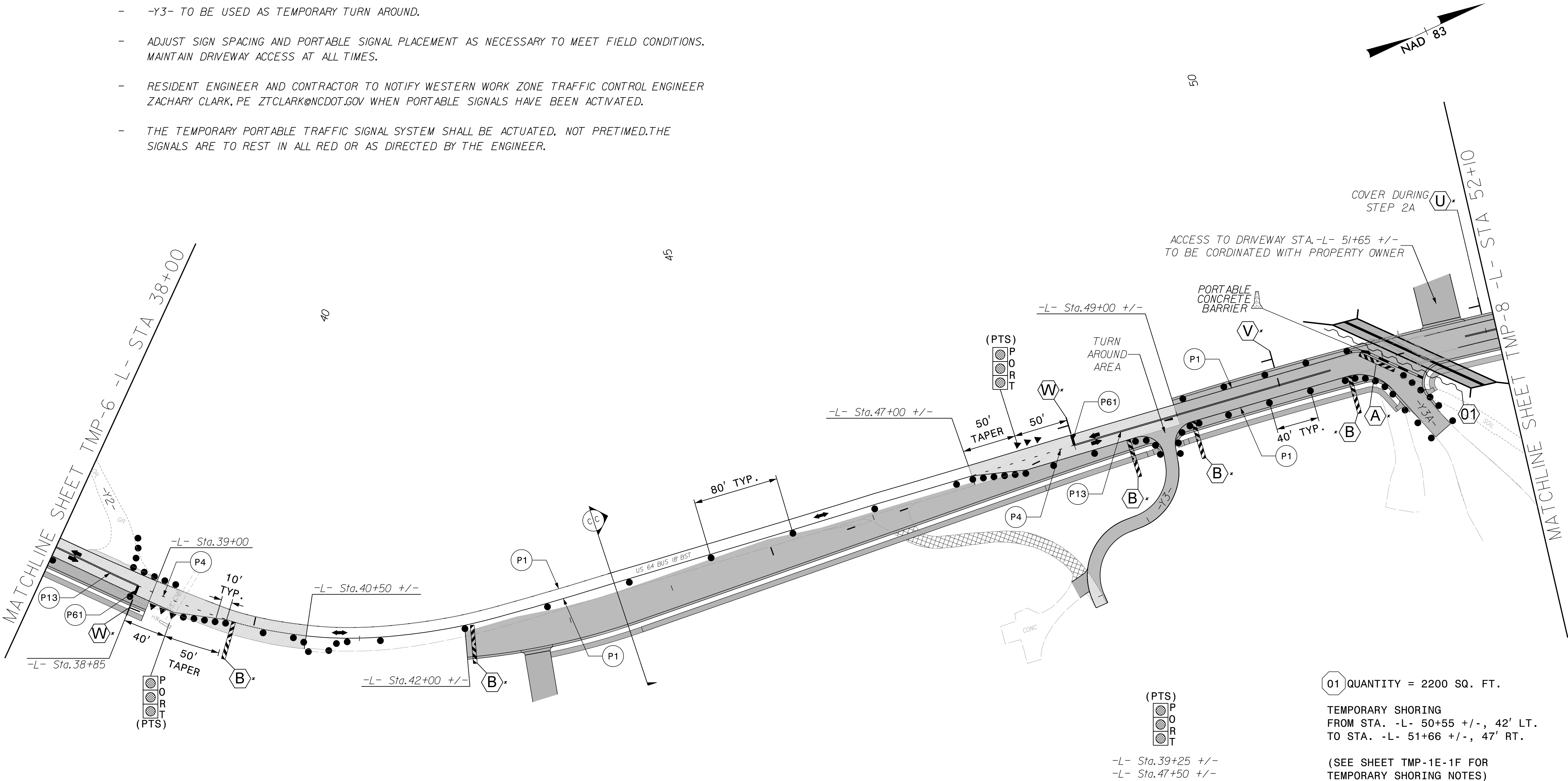


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PHASE II

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|---------------------|-----------|
| R-5863 | TMP-7 |

- NOTES:
- SEE RSD 1101.02 SHEET 17 OF 19 AND RSD 1101.11 SHEETS 1 AND 4 FOR PORTABLE TEMPORARY SIGNAL LAYOUT INCLUDING ASSOCIATED SIGNAGE.
 - -Y3- TO BE USED AS TEMPORARY TURN AROUND.
 - ADJUST SIGN SPACING AND PORTABLE SIGNAL PLACEMENT AS NECESSARY TO MEET FIELD CONDITIONS. MAINTAIN DRIVEWAY ACCESS AT ALL TIMES.
 - RESIDENT ENGINEER AND CONTRACTOR TO NOTIFY WESTERN WORK ZONE TRAFFIC CONTROL ENGINEER ZACHARY CLARK, PE ZTCLARK@NCDOT.GOV WHEN PORTABLE SIGNALS HAVE BEEN ACTIVATED.
 - THE TEMPORARY PORTABLE TRAFFIC SIGNAL SYSTEM SHALL BE ACTUATED, NOT PRETIMED.THE SIGNALS ARE TO REST IN ALL RED OR AS DIRECTED BY THE ENGINEER.

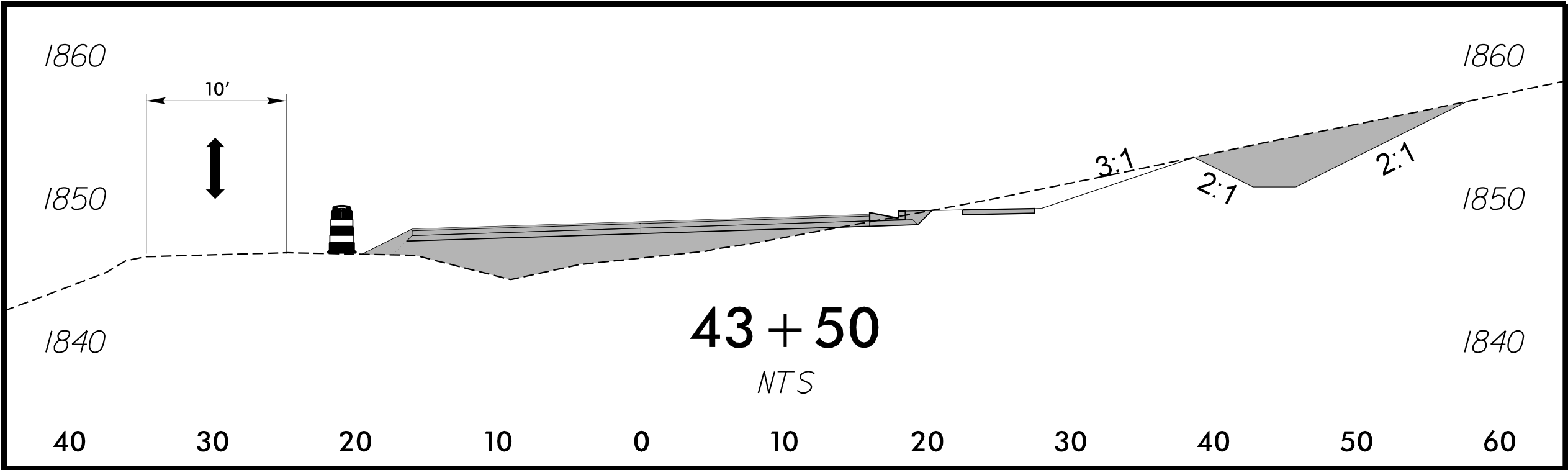
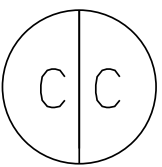


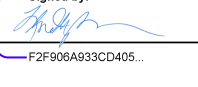
01 QUANTITY = 2200 SQ. FT.

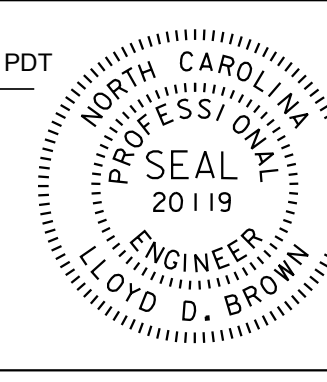
TEMPORARY SHORING
FROM STA. -L- 50+55 +/-, 42' LT.
TO STA. -L- 51+66 +/-, 47' RT.

(SEE SHEET TMP-1E-1F FOR
TEMPORARY SHORING NOTES)

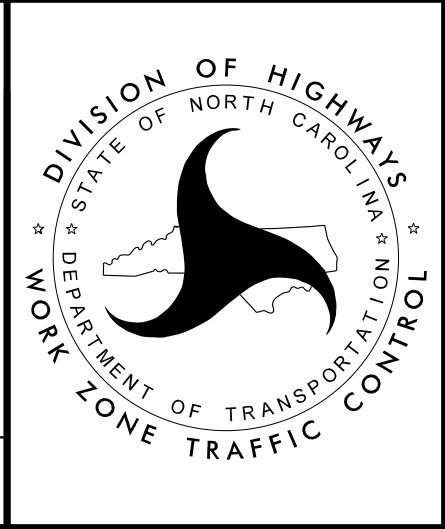
* FOR SIGN LEGEND SEE SHEET TMP-1B.



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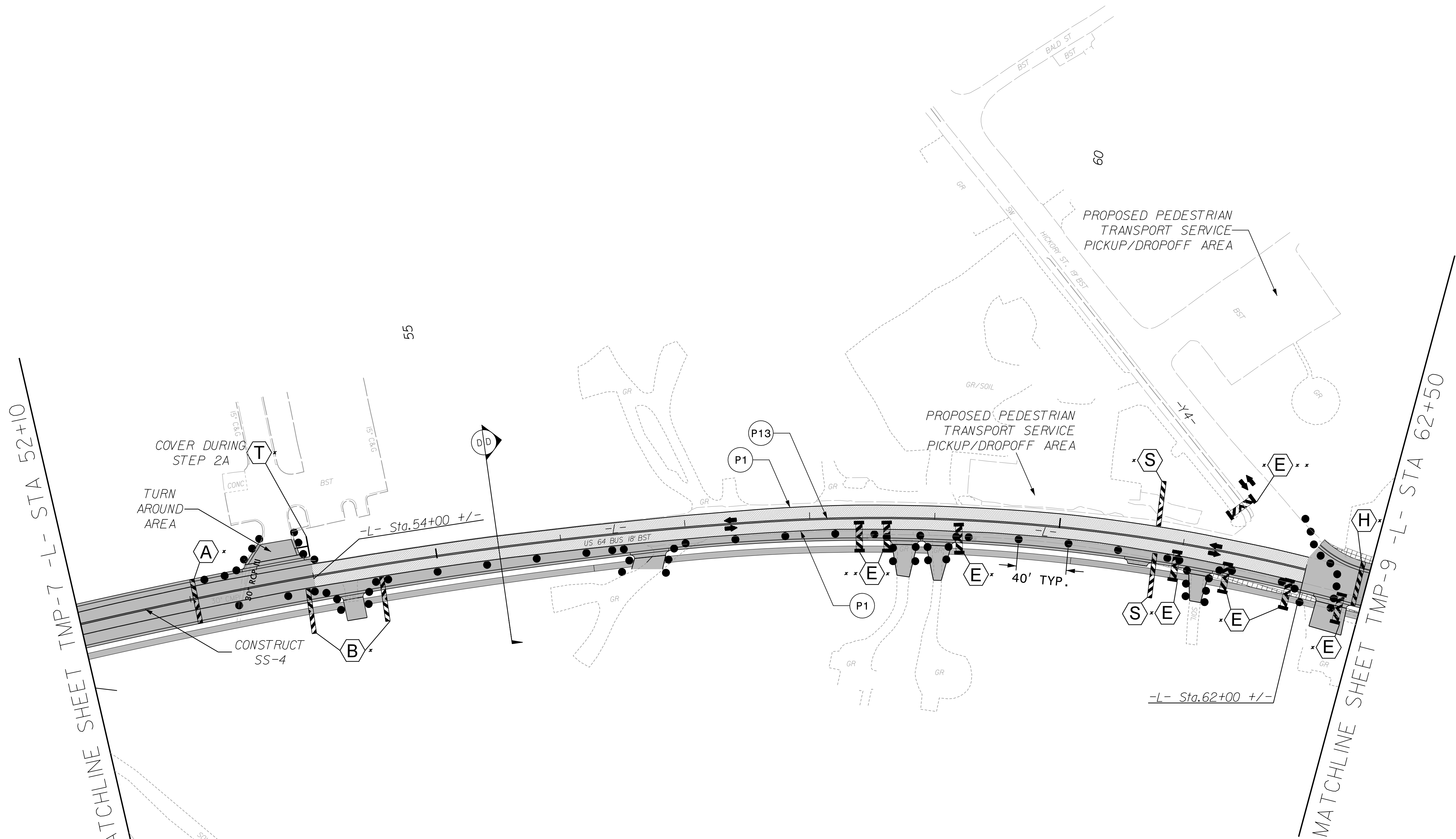
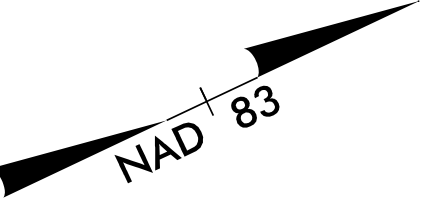
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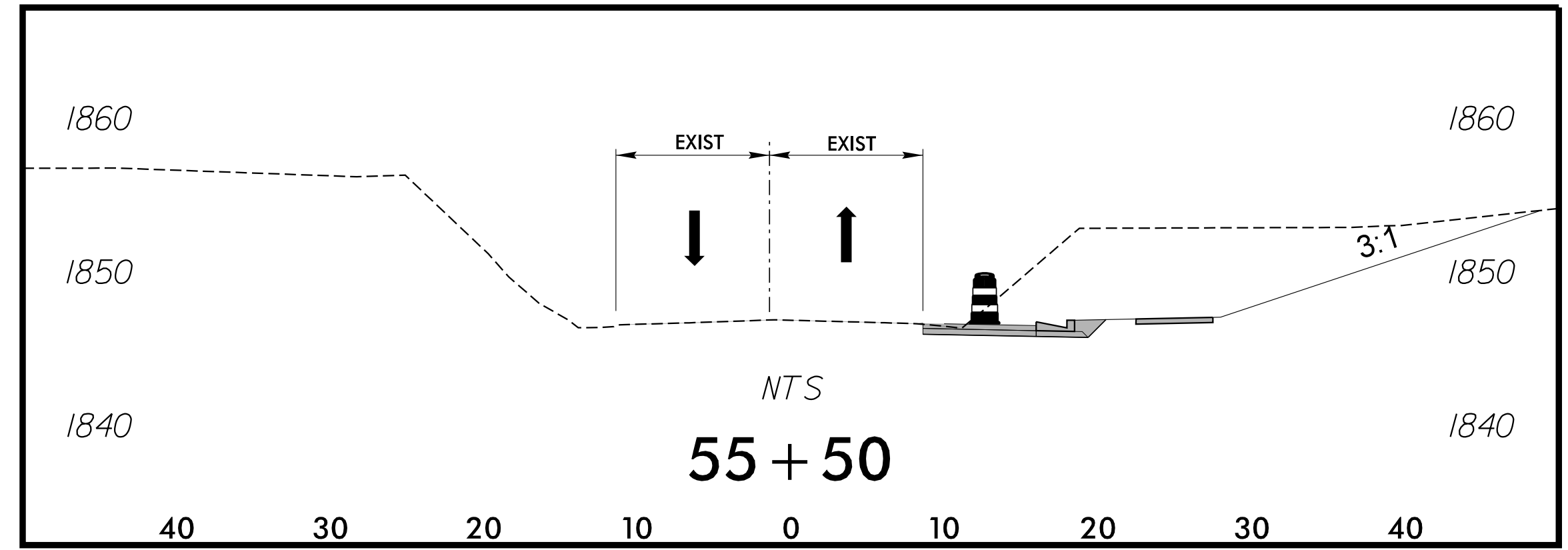
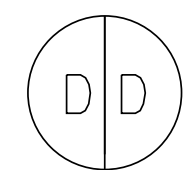
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| R-5863 | TMP-8 |



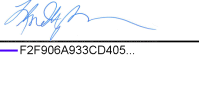
- NOTES:
- SEE RSD 1101.02 SHEET 17 OF 19 AND RSD 1101.11 SHEETS 1 AND 4 FOR PORTABLE TEMPORARY SIGNAL LAYOUT INCLUDING ASSOCIATED SIGNAGE.
 - ADJUST SIGN SPACING AND PORTABLE SIGNAL PLACEMENT AS NECESSARY TO MEET FIELD CONDITIONS. MAINTAIN DRIVEWAY ACCESS AT ALL TIMES.

* FOR SIGN LEGEND SEE SHEET TMP-1B.

** PLACE SIDEWALK CLOSED BARRICADE, PEDESTRIAN TRANSPORT SIGNS, AND AUDIBLE DEVICES AS CONSTRUCTION PROGRESSES OR AS DIRECTED BY THE ENGINEER.

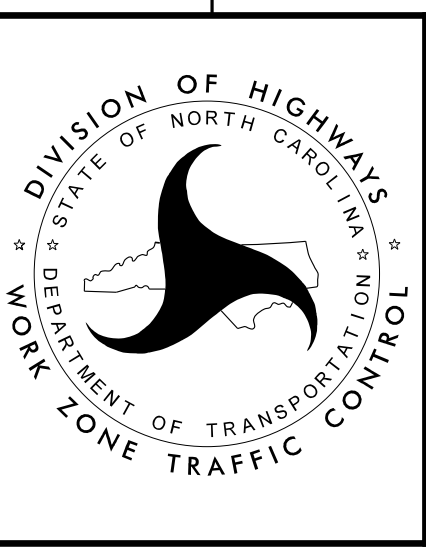


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ENGINEER
LLOYD D. BROWN

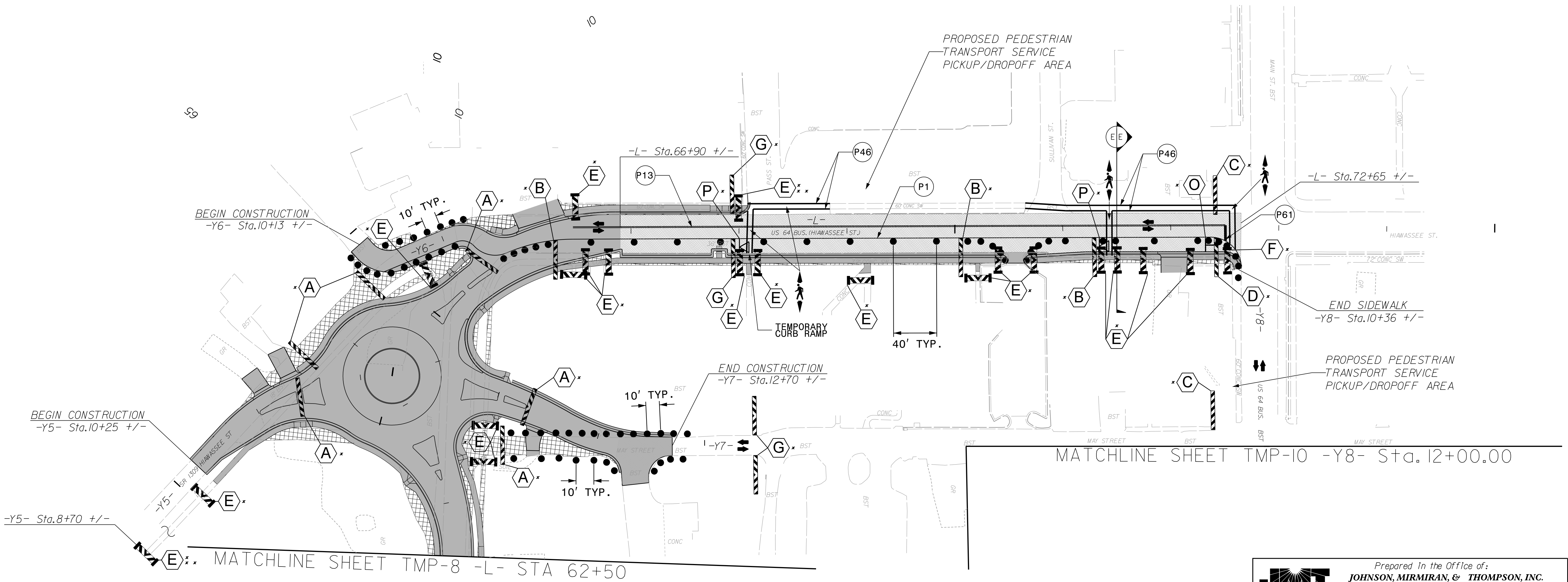
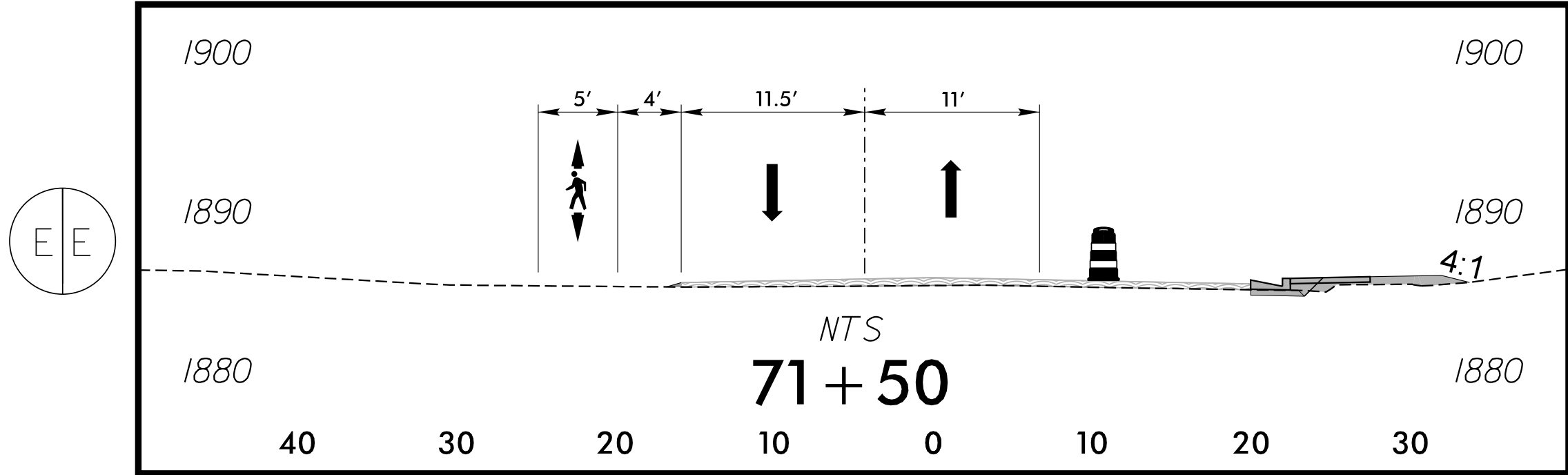
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PHASE II

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| PROJ. REFERENCE NO. | SHEET NO. |
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| R-5863 | TMP-9 |



* FOR SIGN LEGEND SEE SHEET TMP-1B.

** PLACE SIDEWALK CLOSED BARRICADE, PEDESTRIAN TRANSPORT SIGNS, AND AUDIBLE DEVICES AS CONSTRUCTION PROGRESSES OR AS DIRECTED BY THE ENGINEER.

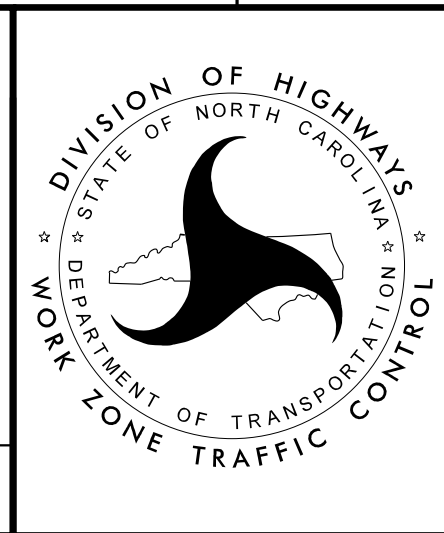


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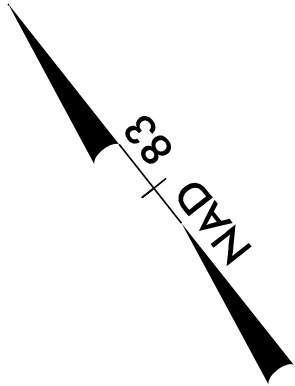
DocuSigned by:
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NORTH CAROLINA
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SEAL
20119
ENGINEER

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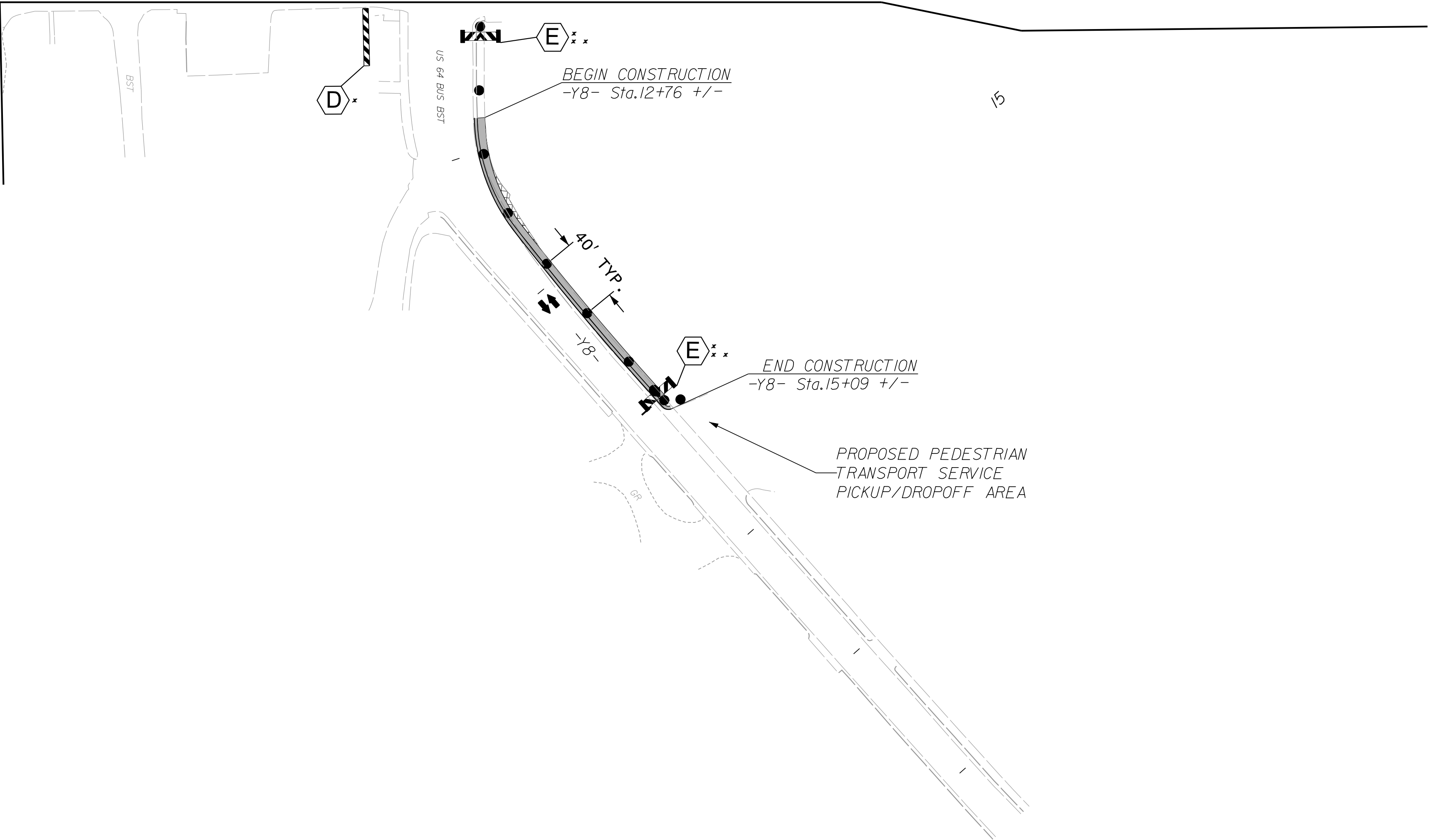


PHASE II

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| R-5863 | TMP-10 |



MATCHLINE SHEET TMP-9 -Y8- Sta. 12+00.00




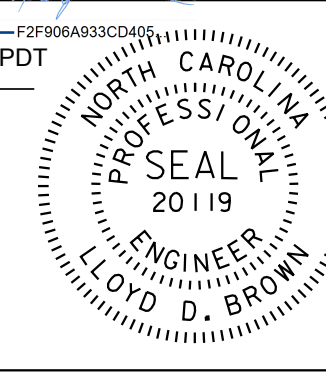
* FOR SIGN LEGEND SEE SHEET TMP-1B.

* * PLACE SIDEWALK CLOSED BARRICADE, PEDESTRIAN TRANSPORT SIGNS, AND AUDIBLE DEVICES AS CONSTRUCTION PROGRESSES OR AS DIRECTED BY THE ENGINEER.

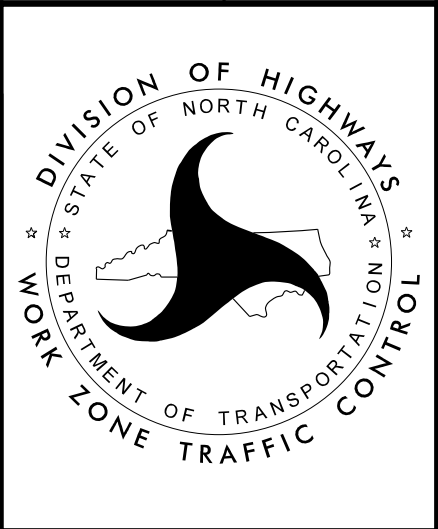


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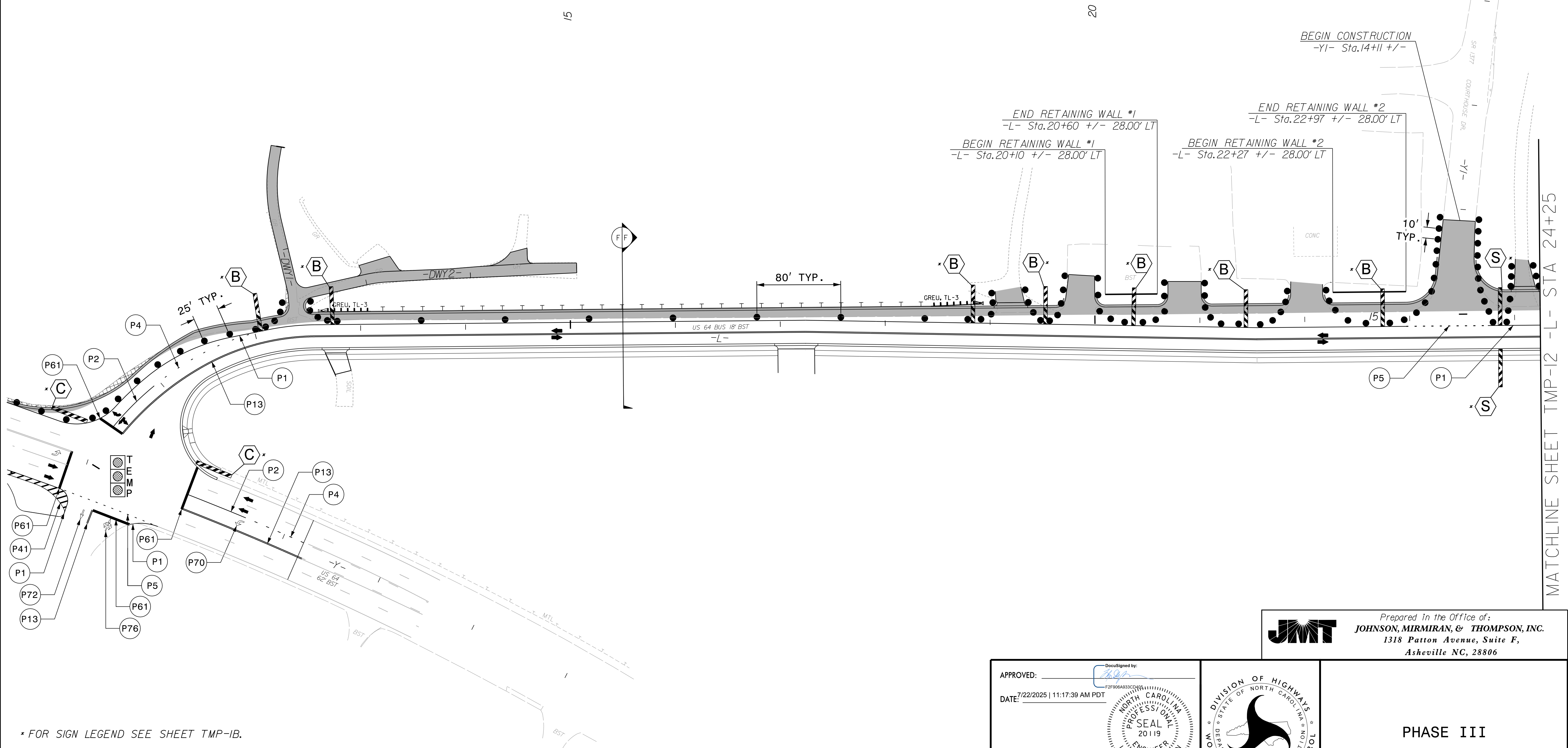
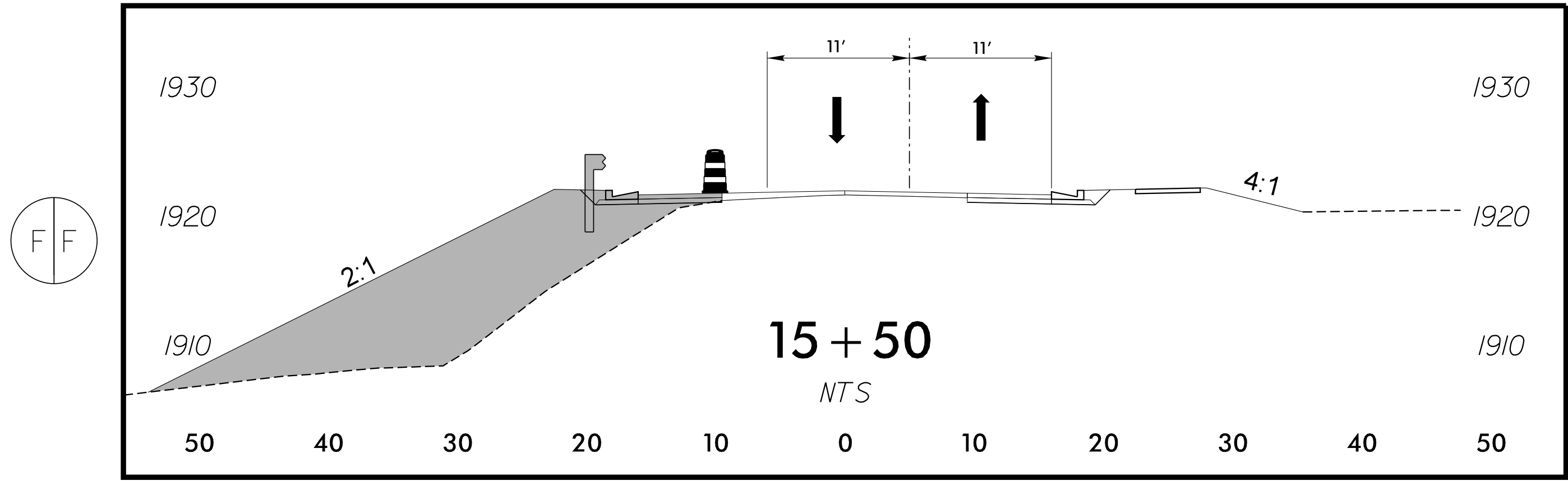
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PHASE III

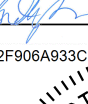
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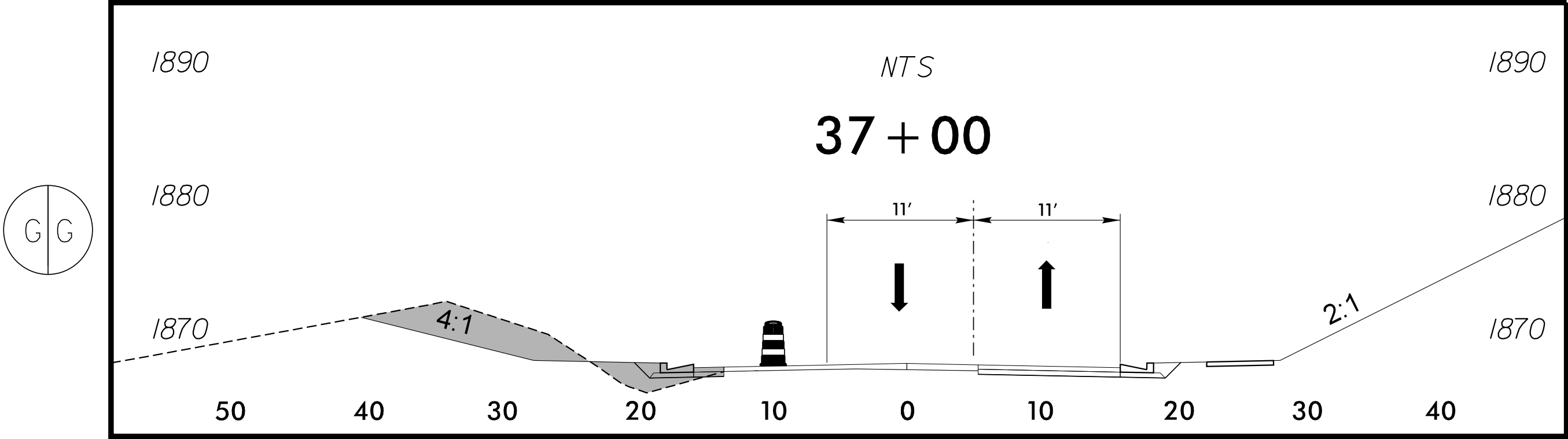
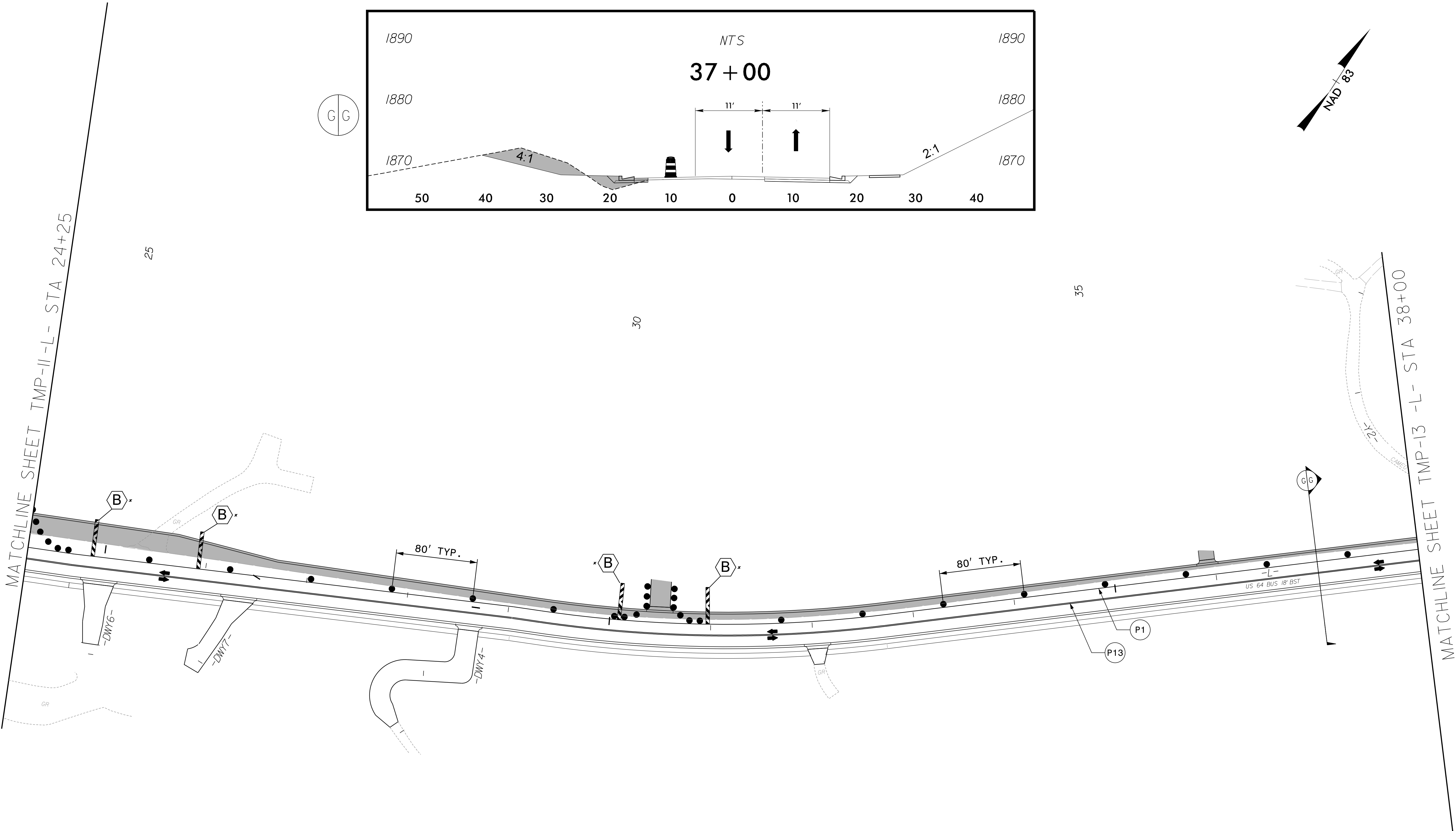


A circular professional engineer seal for the State of North Carolina. The outer ring contains the text "NORTH CAROLINA" at the top and "ENGINEER" at the bottom. Inside this ring, the word "PROFESSIONAL" is written in an arc above the license number "20119". Below the license number, the name "LLOYD D. BROWN" is written in an arc.

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| R-5863 | TMP-12 |

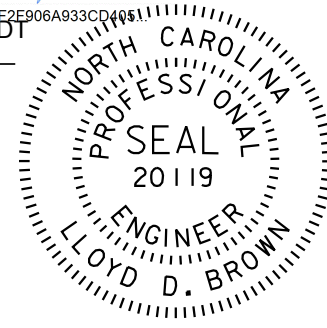


* FOR SIGN LEGEND SEE SHEET TMP-1B.



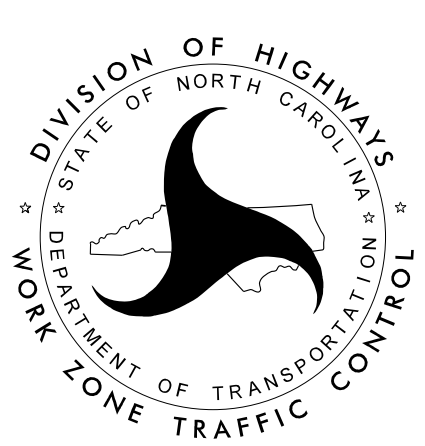
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LLOYD D. BROWN
ENGINEER
NORTH CAROLINA
PROFESSIONAL
SEAL

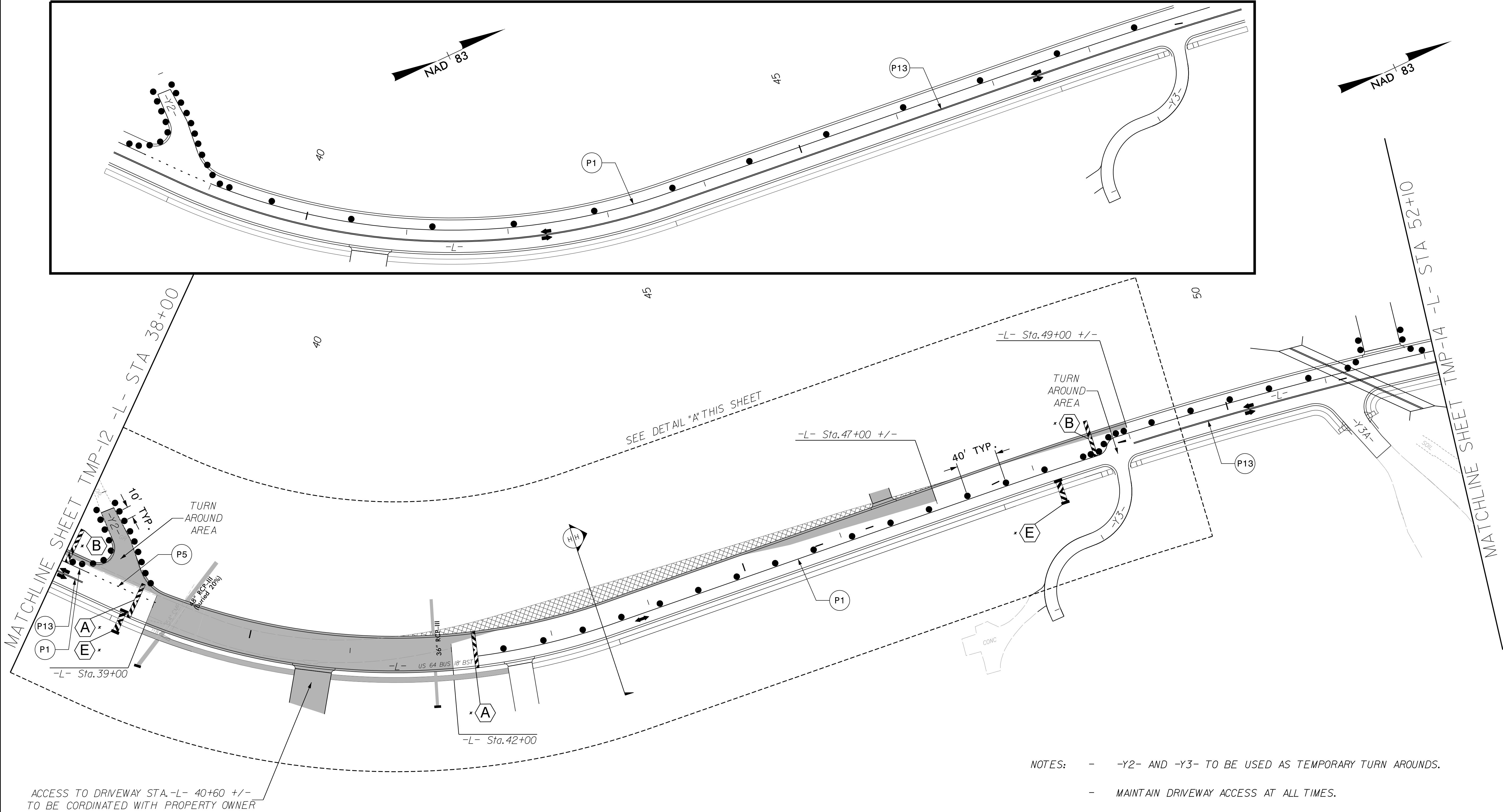
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PHASE III

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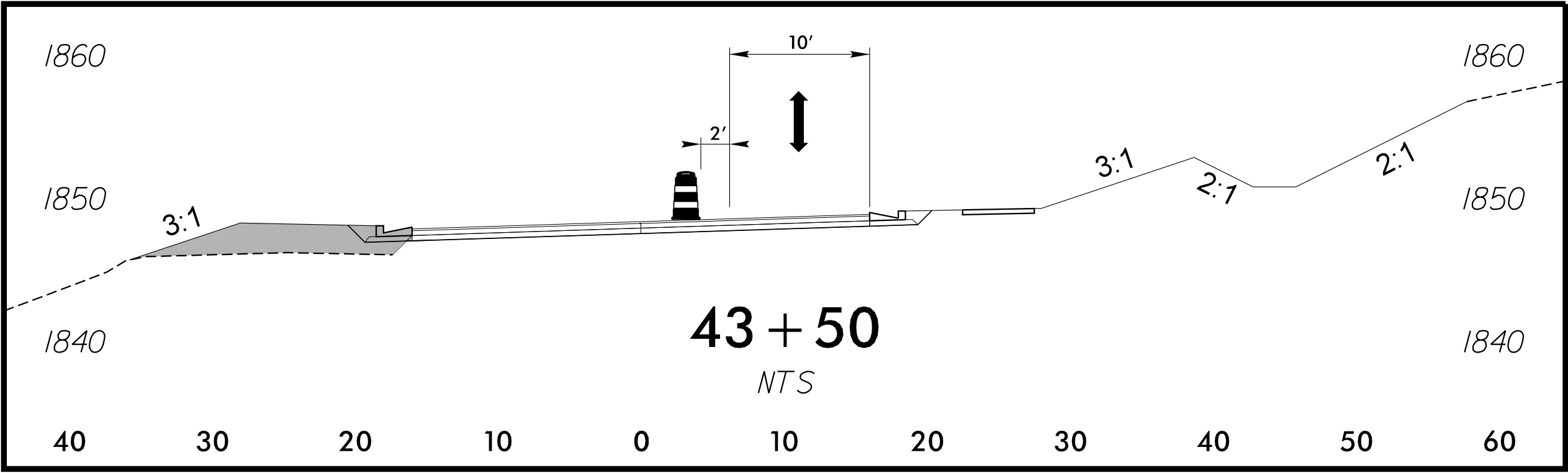
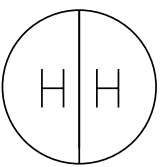
DETAIL "A"
ALTERNATE TRAFFIC CONTROL LAYOUT




ACCESS TO DRIVEWAY STA. -L- 40+60 +/-
TO BE COORDINATED WITH PROPERTY OWNER

- NOTES:
- -Y2- AND -Y3- TO BE USED AS TEMPORARY TURN AROUNDS.
 - MAINTAIN DRIVEWAY ACCESS AT ALL TIMES.

* FOR SIGN LEGEND SEE SHEET TMP-1B.

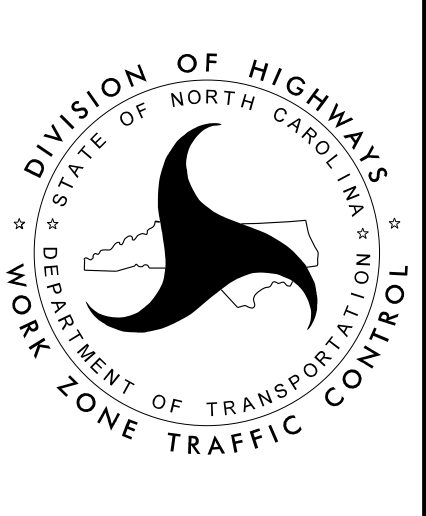


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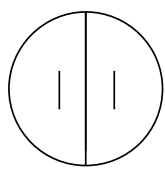
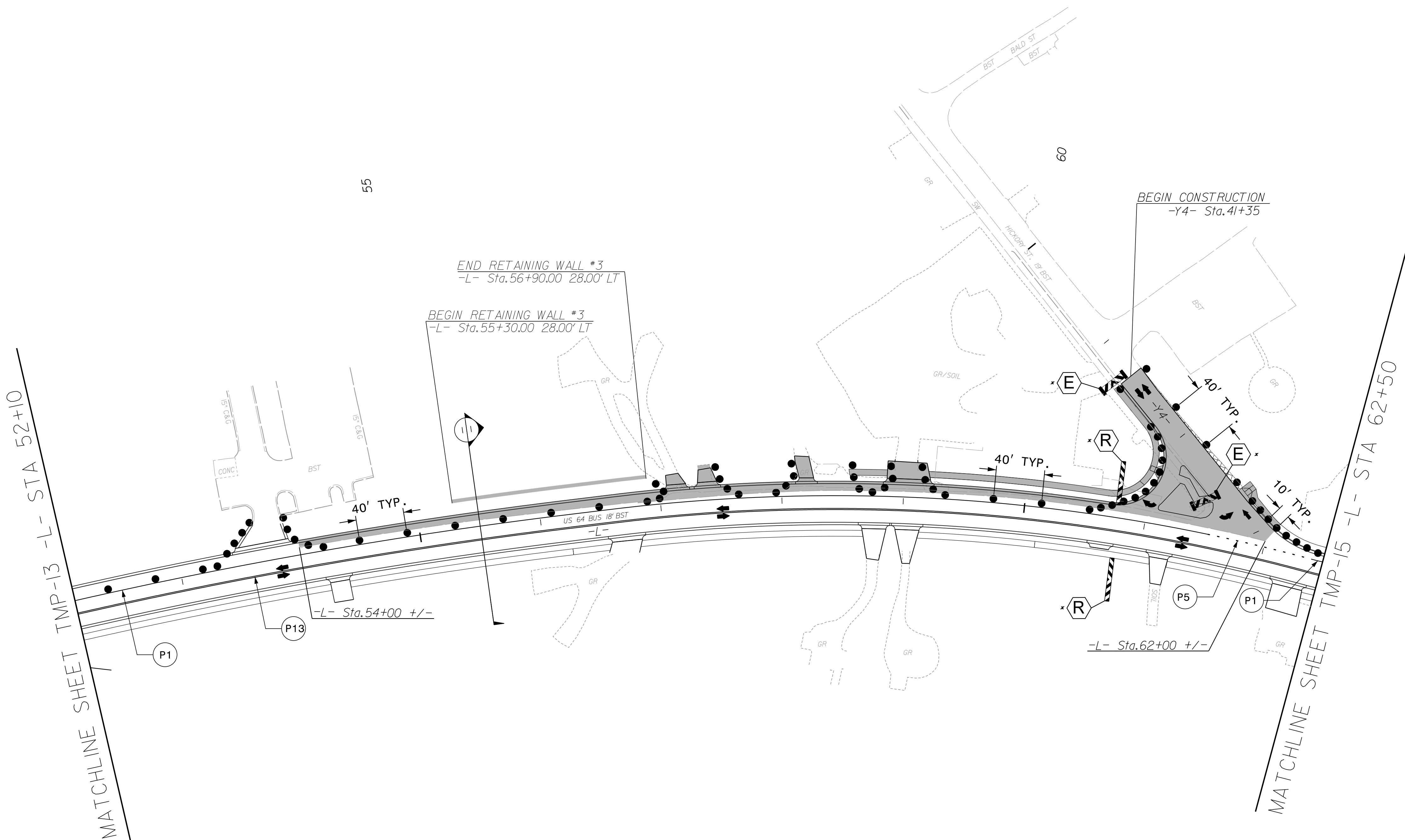
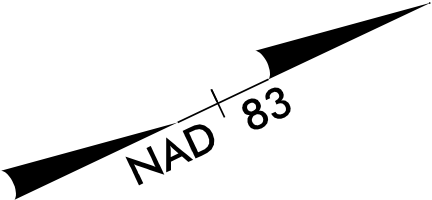
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ENGINEER
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20119

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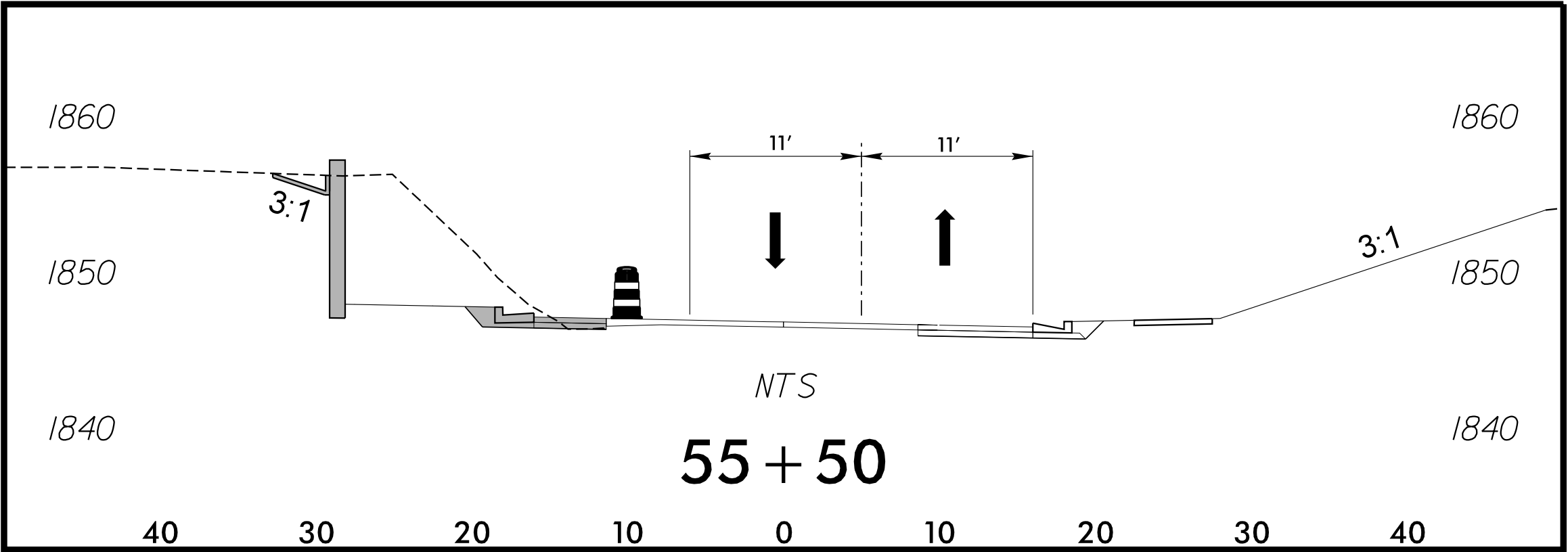


PHASE III

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| R-5863 | TMP-14 |

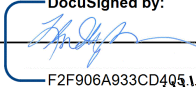


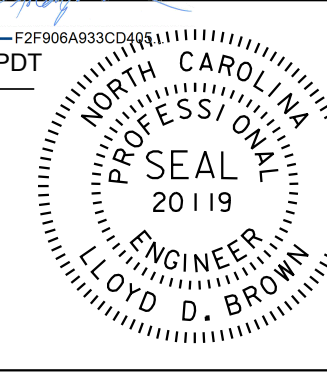
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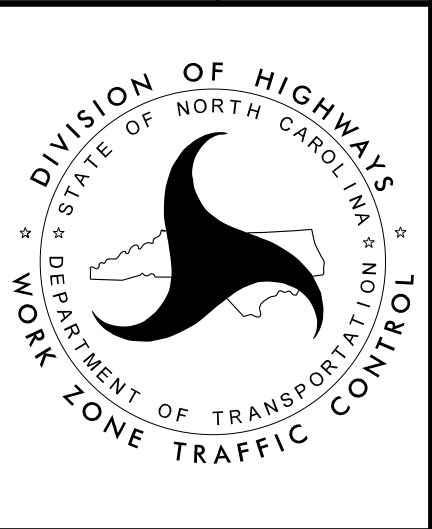
NOTES: - MAINTAIN DRIVEWAY ACCESS AT ALL TIMES.

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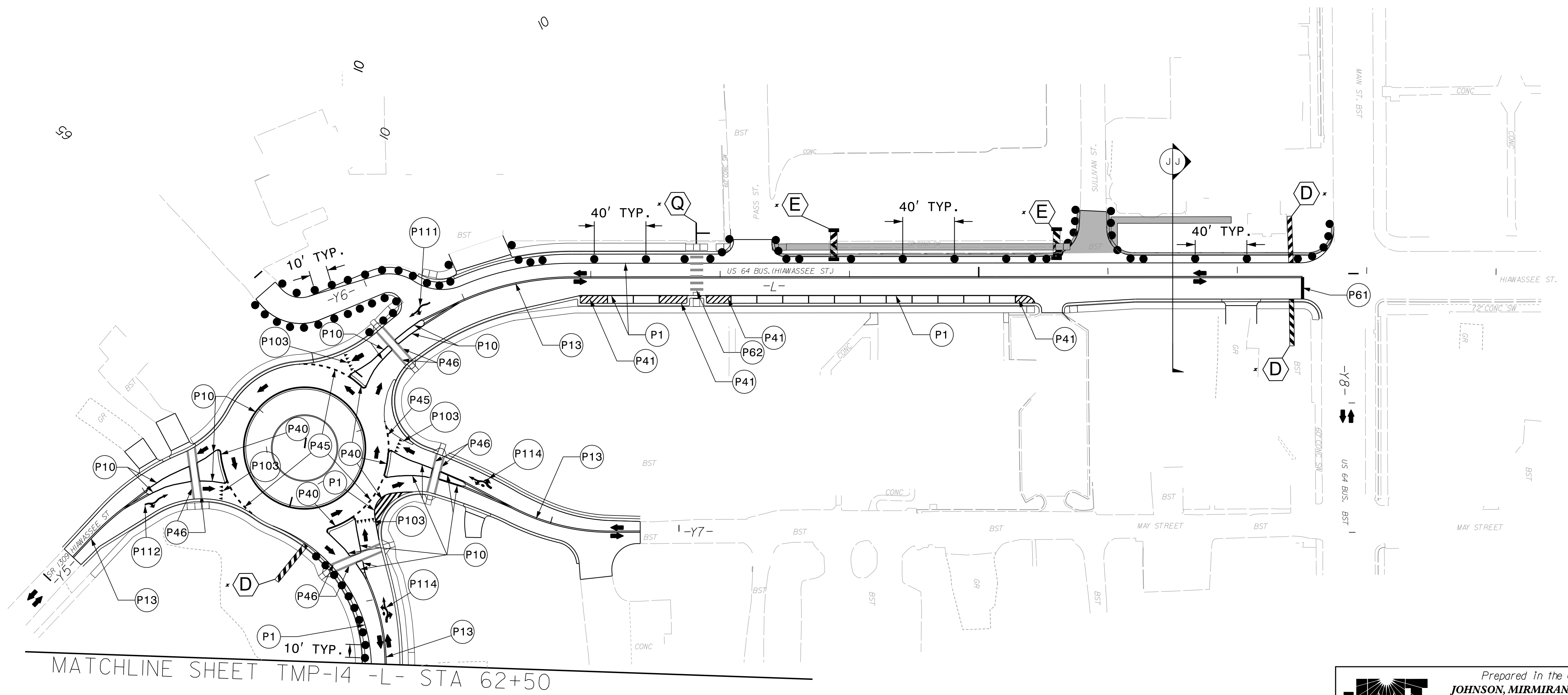
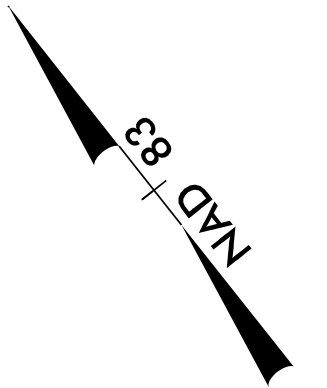
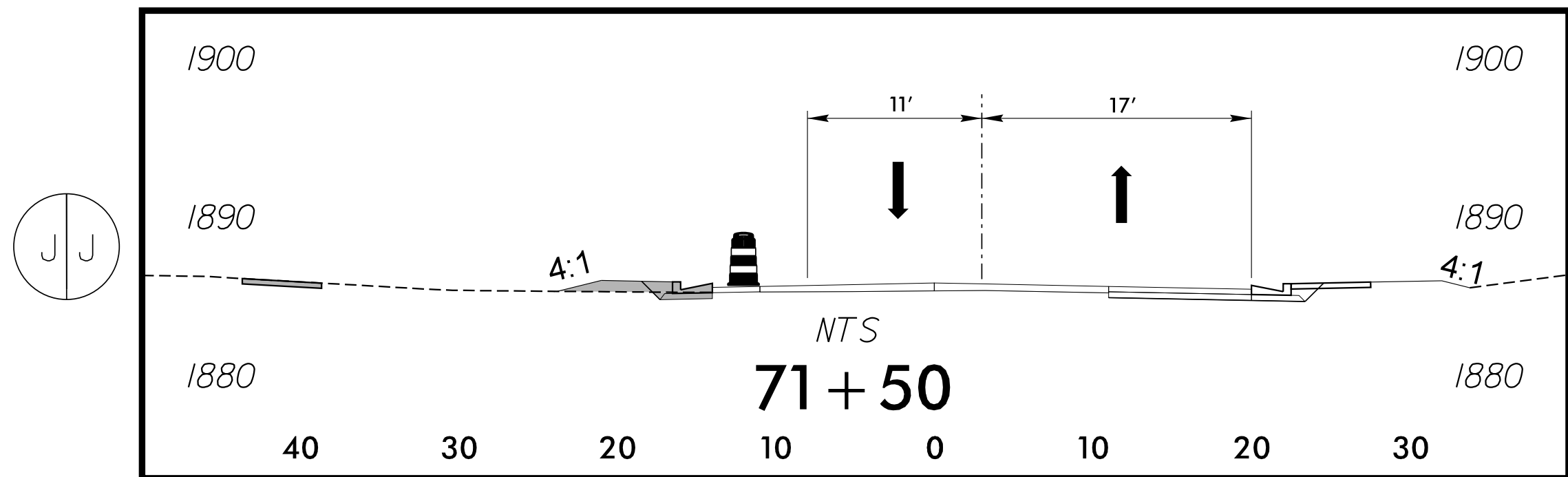
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LLOYD D. BROWN
ENGINEER
20119

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PHASE III



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PHASE III

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