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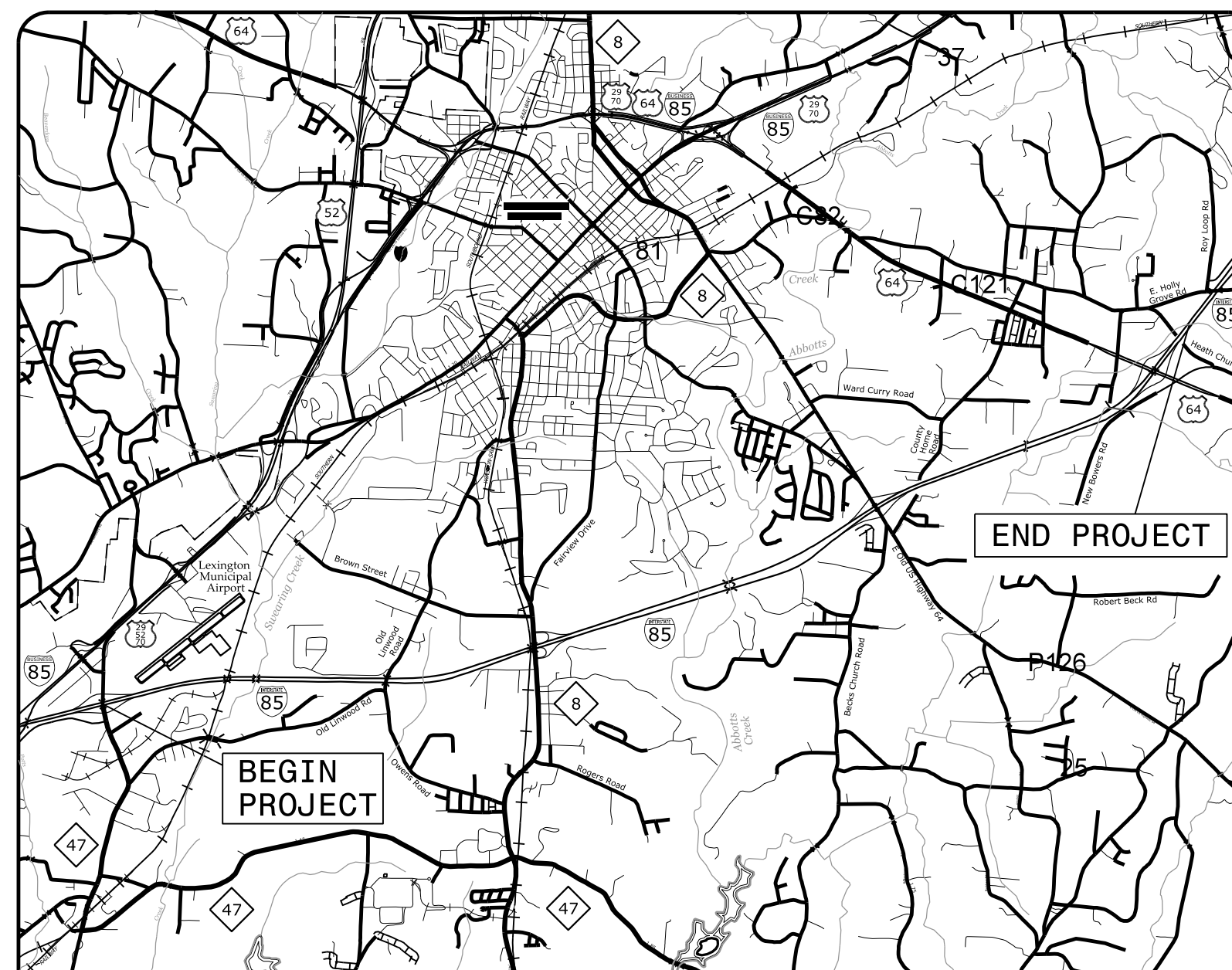
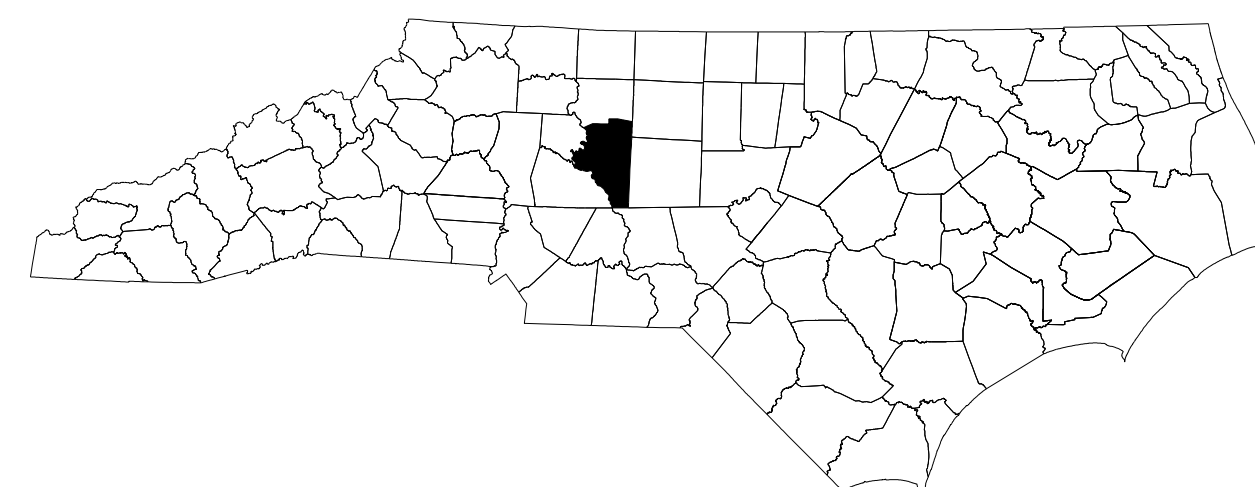
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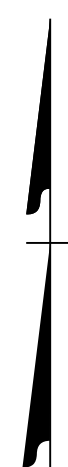
STATE OF NORTH CAROLINA  
DIVISION OF HIGHWAYS

**TRANSPORTATION MANAGEMENT PLAN**

**DAVIDSON COUNTY**



**VICINITY MAP**

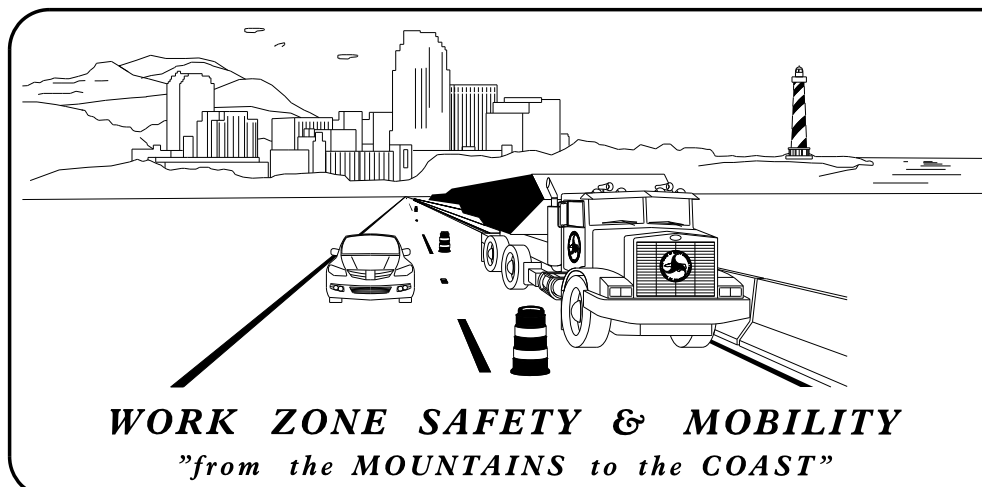


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SHEET NO.  
TMP-1

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**PLANS PREPARED BY:**

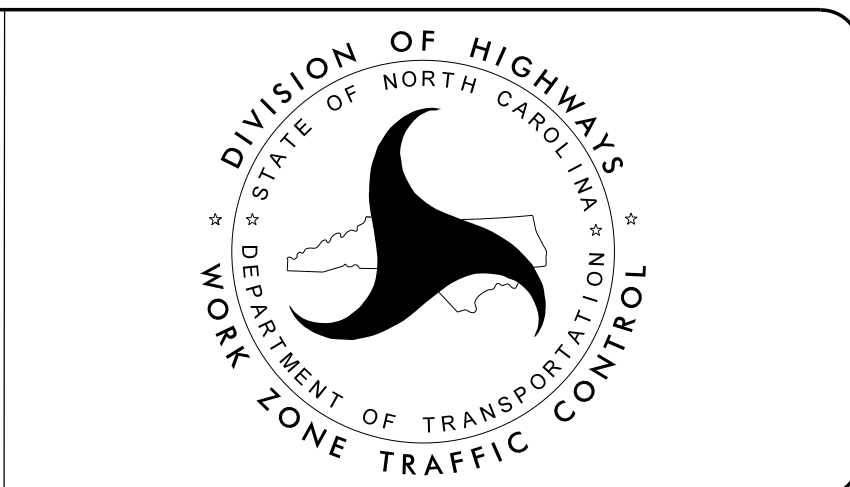
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PLAN PREPARED FOR N.C.D.O.T. BY:

**Dewberry**

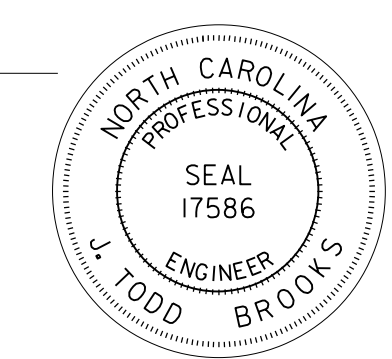
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**TIP PROJECT: I-5950**



# ROADWAY STANDARD DRAWINGS

THE FOLLOWING ROADWAY STANDARDS AS SHOWN IN "ROADWAY STANDARD DRAWINGS" - N.C. DEPARTMENT OF TRANSPORTATION - RALEIGH, N.C., DATED JANUARY 2018 ARE APPLICABLE TO THIS PROJECT AND BY REFERENCE HEREBY ARE CONSIDERED A PART OF THESE PLANS:

STD. NO.	TITLE
1101.01	WORK ZONE ADVANCE WARNING SIGNS
1101.02	TEMPORARY LANE CLOSURES
1101.04	TEMPORARY SHOULDER CLOSURES
1101.11	TRAFFIC CONTROL DESIGN TABLES
1110.01	STATIONARY WORK ZONE SIGNS
1110.02	PORTABLE WORK ZONE SIGNS
1115.01	FLASHING ARROW BOARDS
1130.01	DRUM
1135.01	CONES
1145.01	BARRICADES - TYPE III
1160.01	TEMPORARY CRASH CUSHION - REFLECTIVE END TREATMENT
1165.01	TRUCK MOUNTED ATTENUATOR
1170.01	PORTABLE CONCRETE BARRIER
1180.01	SKINNY-DRUMS
1205.01	PAVEMENT MARKINGS - LINE TYPES AND OFFSETS
1205.02	PAVEMENT MARKINGS - TWO-LANE AND MULTI-LANE ROADWAYS
1205.03	PAVEMENT MARKINGS - EXITS AND ENTRANCE RAMP
1205.08	PAVEMENT MARKINGS - SYMBOLS AND WORD MESSAGES
1205.12	PAVEMENT MARKINGS - BRIDGES
1250.01	RAISED PAVEMENT MARKERS - INSTALLATION SPACING
1251.01	RAISED PAVEMENT MARKERS - PERMANENT AND TEMPORARY
1253.01	RAISED PAVEMENT MARKERS - SNOWPLOWABLE

# LEGEND

## GENERAL

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

## PAVEMENT MARKINGS

- EXISTING AND TEMPORARY LINES

## TEMPORARY PAVEMENT MARKING

- WHITE EDGELINE PAIN (6")
- 3 FT. - 9 FT./SP WHITE MINISKIP PAIN (6")
- WHITE GORELINE PAIN (12")

## PAVEMENT MARKING SYMBOLS AND CHARACTERS

- PAINT MERGE ARROW PAINT

## TRAFFIC CONTROL DEVICES

- BARRICADE (TYPE III)
- CONE
- DRUM WITH SEQUENTIAL FLASHING WARNING LIGHTS
- 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

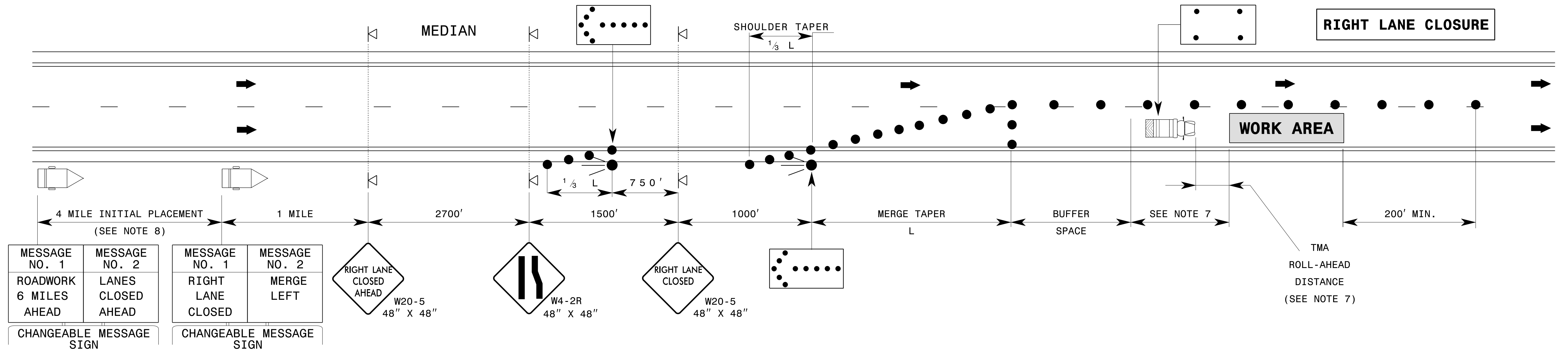
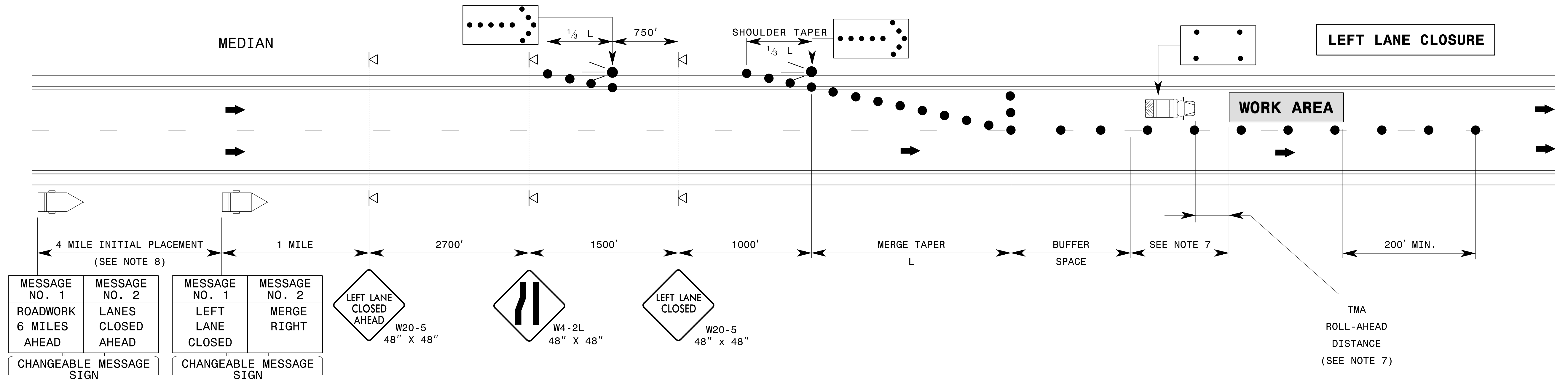
- PAVEMENT MARKING SYMBOLS

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**GENERAL NOTES**

- IF NECESSARY USE THIS RSD. FOR ONE-WAY CITY TYPE STREETS WHERE SIGNS MAY BE MOUNTED ON BOTH SIDES OF THE ROADWAY.
- PLACE ARROW BOARDS ON THE SHOULDER (PAVED OR UNPAVED). PLACE ARROW BOARDS WITHIN THE TAPER IF SHOULDERS DO NOT EXIST. MEET THE REQUIREMENTS FOR STOPPING SIGHT DISTANCE AT THE ARROW BOARD LOCATION. IF NEEDED, EXTEND LANE CLOSURES AT THE BUFFER SPACE, SUCH THAT STOPPING SIGHT DISTANCE TO THE ARROW BOARD IS MET (REFER TO RSD. 1101.11, SHEET 2).
- PLACE DRUMS IN TAPERS AT THE MAXIMUM SPACING EQUAL IN FEET TO THE POSTED SPEED LIMIT. PLACE DRUMS ALONG THE WORK AREA AT THE MAXIMUM SPACING EQUAL IN FEET TO 2 TIMES THE POSTED SPEED LIMIT.
- REFER TO RSD. 1101.11, SHEETS 1 & 2, FOR "L" DISTANCE AND BUFFER SPACE.
- REFER TO RSD. 1101.02, SHEETS 9 & 10, FOR TREATMENT OF LANE CLOSURES THRU INTERCHANGES.
- INSTALL LANE CLOSURES WITH THE TRAFFIC FLOW, BEGINNING WITH DEVICES ON THE UPSTREAM SIDE OF TRAFFIC. REMOVE LANE CLOSURES AGAINST THE TRAFFIC FLOW, BEGINNING WITH DEVICES ON THE DOWNSTREAM SIDE OF TRAFFIC.
- POSITION THE TMA TO MAINTAIN A ROLL-AHEAD DISTANCE AS RECOMMENDED BY THE MANUFACTURER AND CONTINUOUSLY ADVANCE TMAs AS WORK PROGRESSES.
- PLACE CHANGEABLE MESSAGE SIGN (CMS) ON THE OUTSIDE OF THE TRAVELWAY AS DIRECTED BY THE ENGINEER. PLACE CMS APPROXIMATELY 5 MILES IN ADVANCE OF THE W20-5 SIGNS. IF TRAFFIC BACKS UP TO WHERE THE CMS IS INITIALLY PLACED, RELOCATE CMS 1/2 MILE IN ADVANCE OF ANTICIPATED BACKUP. CONTINUE TO MONITOR TRAFFIC, MOVE CMS APPROXIMATELY 1/2 MILE IN ADVANCE OF ANTICIPATED BACKUP.
- DO NOT EXCEED A 2 MILE LANE CLOSURE LENGTH UNLESS OTHERWISE SHOWN IN THE TMP OR AS DIRECTED BY THE ENGINEER.

**LEGEND**

- FLASHING ARROW BOARD
- ◻ FLASHING ARROW BOARD (96"X48" MIN.), "CAUTION MODE"
- 🚚 TRUCK MOUNTED ATTENUATOR (TMA)
- 📄 CHANGEABLE MESSAGE SIGN (CMS)
- DRUM
- ◁ PORTABLE SIGN
- ➡ DIRECTION OF TRAFFIC FLOW

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NORTH CAROLINA PROFESSIONAL ENGINEER  
 SEAL 17586  
 J. TODD BROOKS

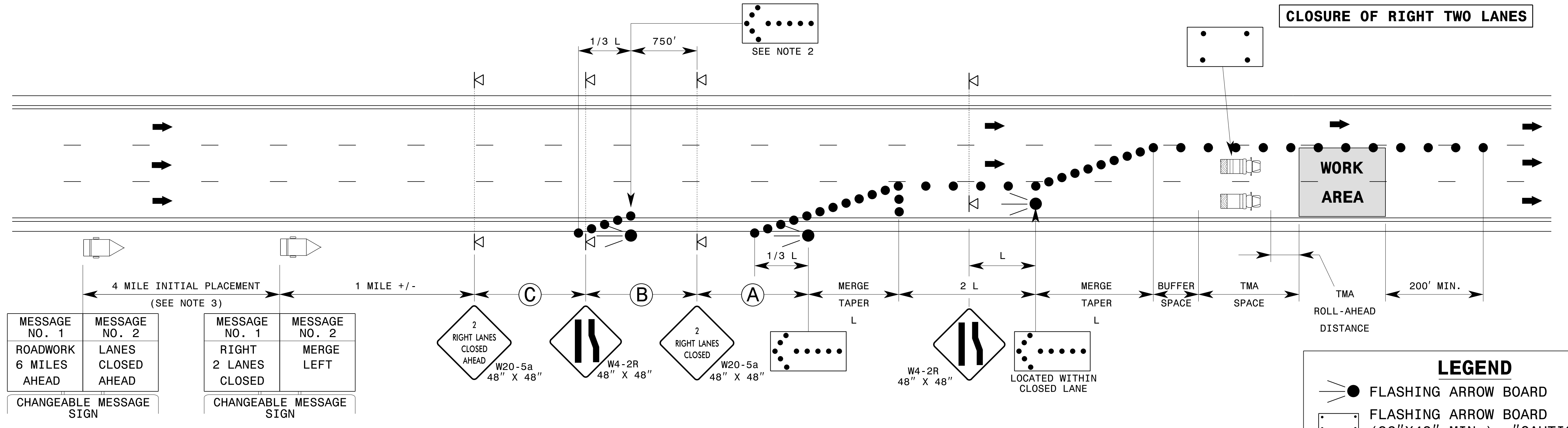
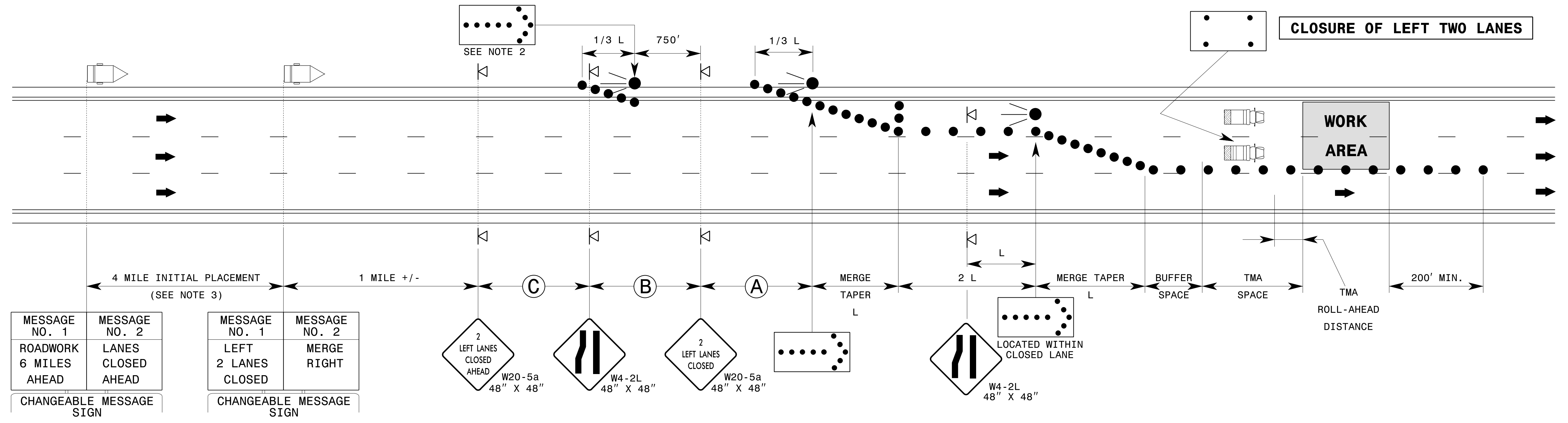
**TEMPORARY LANE CLOSURES DIVIDED MULTI-LANE ROADWAY - 1 LANE CLOSED (FOR ROADWAYS ≥ 60 MPH)**

**Dewberry**

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**LEGEND**

- FLASHING ARROW BOARD
- FLASHING ARROW BOARD (96"X48" MIN.), "CAUTION MODE"
- TRUCK MOUNTED ATTENUATOR (TMA)
- DRUM
- PORTABLE SIGN
- CHANGEABLE MESSAGE SIGN (CMS)
- DIRECTION OF TRAFFIC FLOW

**GENERAL NOTES**

- REFER TO RSD. 1101.02, SHEET 3.
- THE FIRST FLASHING ARROW BOARDS ARE NOT REQUIRED ON FACILITIES ≤ 55 MPH.
- PLACE CHANGEABLE MESSAGE SIGN (CMS) ON THE OUTSIDE OF THE TRAVELWAY AS DIRECTED BY THE ENGINEER. PLACE CMS APPROXIMATELY 5 MILES IN ADVANCE OF THE W20-5 SIGNS. IF TRAFFIC BACKS UP TO WHERE THE CMS IS INITIALLY PLACED, RELOCATE CMS 1/2 MILE IN ADVANCE OF ANTICIPATED BACKUP. CONTINUE TO MONITOR TRAFFIC, MOVE CMS APPROXIMATELY 1/2 MILE IN ADVANCE OF ANTICIPATED BACKUP.



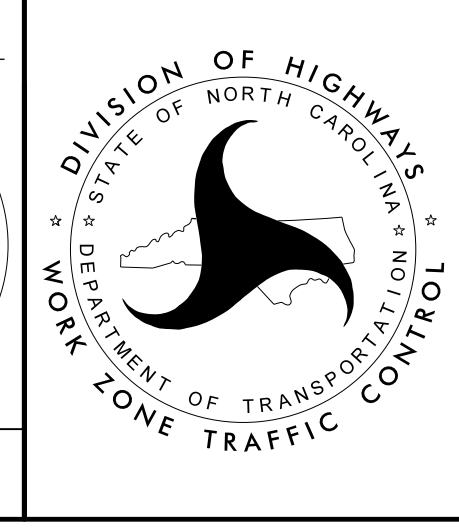
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**TEMPORARY LANE CLOSURES**

**DIVIDED MULTI-LANE ROADWAY - 2 LANES CLOSED**

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## MANAGEMENT STRATEGIES

THE RECOMMENDED MANAGEMENT STRATEGIES RELATIVE TO THIS TMP ARE AS FOLLOWS:

- \* SHOULDER CLOSURES
- \* SINGLE LANE CLOSURES
- \* DOUBLE LANE CLOSURES
- \* RAMP/LOOP CLOSURES AND DETOURS
- \* LAW ENFORCEMENT
- \* CHANGEABLE MESSAGE SIGNS

## 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) EXCEPT AS ALLOWED FOR FULL-DEPTH SHOULDER RECONSTRUCTION ON SHEET TMP-3, DO NOT CLOSE OR NARROW A SINGLE LANE TRAVEL LANE AS FOLLOWS:

<u>ROAD NAME</u>	<u>DAY AND TIME RESTRICTIONS</u>
I-85	MONDAY THRU SUNDAY, 6:00 AM TO 8:00 PM
ALL OTHER ROADS	MONDAY THRU SUNDAY, 6:00 AM TO 8:00 PM

- B) DO NOT CLOSE OR NARROW TWO LANES OF TRAFFIC AS FOLLOWS:

<u>ROAD NAME</u>	<u>DAY AND TIME RESTRICTIONS</u>
I-85	MONDAY THRU SUNDAY, 6:00 AM TO 8:00 PM

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

<u>ROAD NAME</u>	<u>HOLIDAY</u>
ANY ROAD AND ANY RAMP/LOOP	<ol style="list-style-type: none"> <li>1. FOR ANY UNEXPECTED OCCURRENCE THAT CREATES UNUSUALLY HIGH TRAFFIC VOLUMES, AS DIRECTED BY THE ENGINEER.</li> <li>2. FOR NEW YEAR'S, BETWEEN THE HOURS OF 6:00 AM DECEMBER 31ST TO 8:00 PM JANUARY 2ND. IF NEW YEAR'S DAY IS ON A FRIDAY, SATURDAY, SUNDAY, OR MONDAY THEN UNTIL 8:00 PM THE FOLLOWING TUESDAY.</li> <li>3. FOR EASTER, BETWEEN THE HOURS OF 6:00 AM THURSDAY AND 8:00 PM MONDAY.</li> <li>4. FOR MEMORIAL DAY, BETWEEN THE HOURS OF 6:00 AM FRIDAY TO 8:00 PM TUESDAY.</li> <li>5. FOR INDEPENDENCE DAY, BETWEEN THE HOURS OF 6:00 AM THE DAY BEFORE INDEPENDENCE DAY AND 8:00 PM THE DAY AFTER INDEPENDENCE DAY.  IF INDEPENDENCE DAY IS ON A FRIDAY, SATURDAY, SUNDAY, OR MONDAY THEN BETWEEN THE HOURS OF 6:00 AM THE THURSDAY BEFORE INDEPENDENCE DAY AND 8:00 PM THE TUESDAY AFTER INDEPENDENCE DAY.</li> <li>6. FOR LABOR DAY, BETWEEN THE HOURS OF 6:00 AM FRIDAY AND 8:00 PM TUESDAY.</li> </ol>

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(CONTINUED FROM TMP-2)

**GENERAL NOTES**

PROJ. REFERENCE NO.	SHEET NO.
I-5950	TMP-2A

C) - CONT.

7. FOR THANKSGIVING DAY, BETWEEN THE HOURS OF 6:00 AM TUESDAY AND 8:00 PM MONDAY.

8. FOR CHRISTMAS, BETWEEN THE HOURS OF 6:00 AM THE FRIDAY BEFORE THE WEEK OF CHRISTMAS DAY AND 8:00 PM THE FOLLOWING TUESDAY AFTER THE WEEK OF CHRISTMAS.

SPECIAL EVENTS

9. FOR ANY NASCAR RACE AT THE CHARLOTTE MOTOR SPEEDWAY BETWEEN THE HOURS OF 6:00 AM THE WEDNESDAY BEFORE THE FIRST TRACK EVENT AND 10:00 PM THE DAY AFTER THE LAST TRACK EVENT.

10. FOR ANY CAROLINA PANTHERS GAME PLAYED IN CHARLOTTE FROM FIVE (5) HOURS BEFORE THE GAME TO FIVE (5) HOURS AFTER THE GAME.

11. FOR THE AUTOFAIR AT THE CHARLOTTE MOTOR SPEEDWAY, BETWEEN THE HOURS OF 6:00 AM THE WEDNESDAY OF THE WEEK OF THE AUTOFAIR AND 10:00 PM THE FOLLOWING MONDAY AFTER THE AUTOFAIR.

12. FOR THE BARBECUE FESTIVAL OCCURRING IN LEXINGTON, NORTH CAROLINA, BETWEEN FOUR (4) HOURS BEFORE THE START AND FOUR (4) HOURS AFTER THE END OF THE BARBECUE FESTIVAL. (REFER TO WWW.THEBARBECUEFESTIVAL.COM FOR DATE AND TIMES OF THE ANNUAL BARBECUE FESTIVAL)

D) DO NOT CLOSE ROADS AS FOLLOWS:

ROAD NAME	DAY AND TIME RESTRICTIONS
I-85 ANY RAMP / LOOP	ANYTIME, EXCEPT AS ALLOWED BY THE ICTs MONDAY THROUGH SUNDAY, 6:00 AM TO 9:00 PM

E) DO NOT CONDUCT ANY HAULING OPERATIONS AGAINST THE FLOW OF TRAFFIC OF AN OPEN TRAVEL WAY UNLESS THE HAULING OPERATION IS PROTECTED BY BARRIER OR GUARDRAIL OR AS DIRECTED BY THE ENGINEER.

LANE AND SHOULDER CLOSURE REQUIREMENTS

F) 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.

G) 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 IS CLOSURE IS INSTALLED.

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 SHEET TMP-1B FOR I-85 AND ROADWAY STANDARD DRAWING NO. 1102.02 FOR ROADS OTHER THAN I-85 UNLESS THE WORK AREA IS PROTECTED BY BARRIER OR GUARDRAIL.

I) 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 REMAINS WITHIN THE CLOSED TRAVEL LANE.

J) 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.

K) DO NOT INSTALL MORE THAN ONE LANE CLOSURE IN ANY ONE DIRECTION ON I-85.

PAVEMENT EDGE DROP OFF REQUIREMENTS

L) BACKFILL AT 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.

M) 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) 1000 FT. IN ADVANCE AND A MINIMUM OF EVERY HALF MILE THROUGHOUT THE UNEVEN AREA.

TRAFFIC PATTERN ALTERATIONS

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

SIGNING

O) 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.

P) PROVIDE SIGNING AND DEVICES REQUIRED TO CLOSE THE ROAD ACCORDING TO THE ROADWAY STANDARD DRAWINGS AND TRAFFIC CONTROL PLAN.

Q) COVER OR REMOVE ALL SIGNS AND DEVICES REQUIRED TO CLOSE THE ROAD WHEN ROAD CLOSURE IS NOT IN OPERATION.

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

R) ENSURE ALL NECESSARY SIGNING IS IN PLACE PRIOR TO ALTERING ANY TRAFFIC PATTERN.

S) INSTALL BLACK ON ORANGE "DIP" SIGNS (W8-2) AND/OR "BUMP" SIGNS (W8-1) 1000 FT. IN ADVANCE OF THE UNEVEN AREA, OR AS DIRECTED BY THE ENGINEER.

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<p>DocuSigned by: <i>J. Todd Brooks</i></p> <p>APPROVED: <i>J. Todd Brooks</i> B136C648C96B4EA...</p> <p>DATE: 7/27/2022</p> <p>SEAL</p> <p><b>NORTH CAROLINA PROFESSIONAL ENGINEER SEAL 17586 J. TODD BROOKS</b></p>		<p><b>TRANSPORTATION OPERATIONS PLAN</b></p>
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## GENERAL NOTES

### TRAFFIC BARRIER

T) 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 AN 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 ROADWAY CLOSED UNTIL THE TEMPORARY BARRIER CAN BE PLACED OR AFTER THE TEMPORARY BARRIER IS REMOVED.

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

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

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

### TRAFFIC CONTROL DEVICES

V) 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 OPENED TRAVELWAY. REFER TO STANDARD SPECIFICATIONS FOR ROADS AND STRUCTURES SECTIONS 1130 (DRUMS), 1135 (CONES) AND 1180 (SKINNY DRUMS) FOR ADDITIONAL REQUIREMENTS.

W) PLACE TYPE III BARRICADES, WITH "ROAD CLOSED" SIGN R11-2 ATTACHED, OF SUFFICIENT LENGTH TO CLOSE THE ENTIRE ROADWAY.

X) 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

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

ROAD NAME	MARKING	MARKER
I-85 AND ALL RAMPS	PAINT	NONE

Z) 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.

AA) TIE PROPOSED PAVEMENT MARKING LINES TO EXISTING PAVEMENT MARKING LINES.

BB) REMOVE/REPLACE ANY CONFLICTING/DAMAGED PAVEMENT MARKINGS AND MARKERS BY THE END OF EACH DAY'S OPERATION.

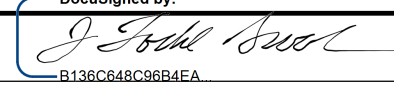
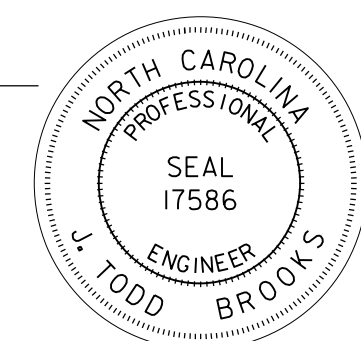
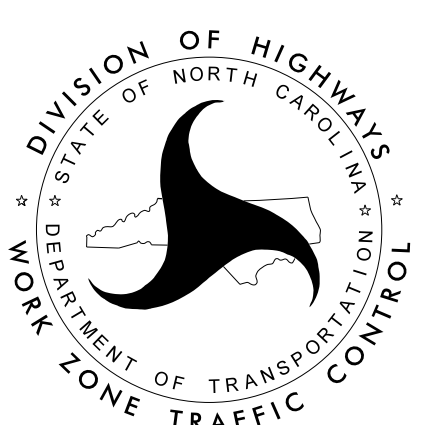
### MISCELLANEOUS

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

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# PHASING

### WORK ZONE ADVANCE WARNING SIGNS

PRIOR TO BEGINNING ANY WORK ON I-85, INSTALL WORK ZONE ADVANCE WARNING SIGNS ON I-85 NB & I-85 SB PROJECT APPROACHES AS WELL AS INTERCHANGE RAMPS / LOOPS WITHIN THE PROJECT LIMITS AS SHOWN ON RSD 1101.01, SHEET 1 OF 3.

### DRAINAGE REPAIRS AND IMPROVEMENTS

USING RSD 1101.04 AND DETAIL SHEETS TMP-7 AND TMP-8, TEMPORARILY CLOSE SHOULDERS ON I-85 TO PERFORM DRAINAGE REPAIRS AND IMPROVEMENTS AWAY FROM TRAFFIC, INCLUDING REPAIR OF CONCRETE AT D.I.'S, PARALLEL PIPE REPAIRS, SHOULDER REGRADING AND PIPE LINING. REFER TO PROJECT OVERVIEWS ON TMP-4 THRU TMP-6 AND ROADWAY PLANS FOR LOCATIONS OF DRAINAGE IMPROVEMENT WORK AREAS.

THIS WORK MAY BE COMPLETED AT ANY TIME WHEN NOT IN CONFLICT WITH SLAB REPLACEMENTS, FULL-DEPTH PAVED SHOULDER RECONSTRUCTION, AND BRIDGE REHABILITATION.

### SHOULDER SLAB REPLACEMENT

THIS WORK MAY BE COMPLETED AT ANY TIME WHEN NOT IN CONFLICT WITH I-85 MAINLINE SLAB REPLACEMENTS, FULL-DEPTH SHOULDER RECONSTRUCTION, AND BRIDGE REHABILITATION.

USING SHEET TMP-1B, TEMPORARILY CLOSE THE RIGHT LANE OF I-85 TO REPLACE EXISTING SHOULDER SLABS DURING PERMISSIBLE LANE CLOSURE HOURS AT THE FOLLOWING LOCATIONS:

#### I-85 NORTHBOUND

- BRIDGE #147 OVER N.S.R.R. (SEE PROJECT OVERVIEW SHEET TMP-4)
- BRIDGE #154 OVER SWEARING CREEK (SEE PROJECT OVERVIEW SHEET TMP-4)
- BRIDGE #170 OVER ABBOTTS CREEK (SEE PROJECT OVERVIEW SHEET TMP-5)

#### I-85 SOUTHBOUND

- BRIDGE #171 - I-85 SB OVER ABBOTTS CREEK (SEE PROJECT OVERVIEW SHEET TMP-5)

### FULL-DEPTH SHOULDER RECONSTRUCTION

THIS WORK MAY BE COMPLETED AT ANY TIME WHEN NOT IN CONFLICT WITH SLAB REPLACEMENTS AND BRIDGE REHABILITATION.

FOR EACH WORK LOCATION, THE CONTRACTOR SHALL COMPLETE THE WORK REQUIRED IN STEP 1 THROUGH STEP 4 WITHIN 168 CONSECUTIVE HOURS. SEE INTERMEDIATE CONTRACT TIMES AND LIQUIDATED DAMAGES

I-85 SOUTHBOUND MP 89.29 TO 89.24 AND MP 89.18 TO 89.12  
(SEE DETAIL SHEET TMP-12)

- STEP 1: WITHOUT DISTURBING EXISTING GUARDRAIL, PERFORM AS MUCH OF PROPOSED CONSTRUCTION AS POSSIBLE BY TEMPORARILY CLOSING RIGHT LANE OF I-85 SB OVER SWEARING CREEK (BRIDGE #157) DURING PERMISSIBLE LANE CLOSURE HOURS USING SHEET TMP-1B.
- STEP 2: USING SHEET TMP-1C, TEMPORARILY CLOSE THE I-85 SB CENTER AND RIGHT LANES AND INSTALL PORTABLE CONCRETE BARRIER (P.C.B.) ON RIGHT LANE AS SHOWN ON DETAIL SHEET TMP-12. ONCE P.C.B. IS INSTALLED, REOPEN CENTER LANE WHILE MAINTAINING RIGHT LANE CLOSURE AS SHOWN ON TMP-12 AND SHEET TMP-1B.

STEP 3: WORKING BEHIND P.C.B., REMOVE EXISTING GUARDRAIL THEN CONSTRUCT FULL-DEPTH PAVED SHOULDER, SHOULDER BERM GUTTER AND GUARDRAIL AND REPLACE SHOULDER SLAB.

STEP 4: USING SHEET TMP-1C, TEMPORARILY CLOSE THE I-85 SB CENTER LANE AND REMOVE P.C.B FROM THE CLOSED RIGHT LANE. REMOVE ALL LANE CLOSURE SIGNS AND DEVICES AND REOPEN ALL SOUTHBOUND LANES TO TRAFFIC.

I-85 NORTHBOUND MP 91.52 TO 91.69  
(SEE DETAIL SHEETS TMP-15 THRU TMP-17)

STEP 1: WITHOUT DISTURBING EXISTING GUARDRAIL, PERFORM AS MUCH OF PROPOSED CONSTRUCTION AS POSSIBLE BY TEMPORARILY CLOSING RIGHT LANE OF I-85 NB DURING PERMISSIBLE LANE CLOSURE HOURS USING SHEET TMP-1B AND RSD 1101.02, SHEETS 9 AND 10 OF 14.

- STEP 2: USING SHEET TMP-1C AND RSD 1101.02, SHEETS 9 AND 10 OF 14, TEMPORARILY CLOSE THE I-85 NB CENTER AND RIGHT LANES:
  - REVISE PAVEMENT MARKINGS ON I-85 NB RIGHT LANE AND NB ENTRANCE RAMP FROM NC 8 AS SHOWN ON DETAIL SHEETS TMP-16 AND TMP-17.
  - INSTALL PORTABLE CONCRETE BARRIER (P.C.B.) ON RIGHT LANE AS SHOWN ON DETAIL SHEETS TMP-16 AND TMP-17.
  - ONCE P.C.B. IS INSTALLED, REOPEN CENTER LANE WHILE MAINTAINING RIGHT LANE CLOSURE AS SHOWN ON DETAIL SHEETS TMP-15 THROUGH TMP-17 AND SHEET TMP-1B.

STEP 3: WORKING BEHIND P.C.B., REMOVE EXISTING GUARDRAIL THEN CONSTRUCT FULL-DEPTH PAVED SHOULDER, SHOULDER BERM GUTTER AND GUARDRAIL AND REPLACE SHOULDER SLAB.

- STEP 4: USING SHEET TMP-1C AND RSD 1101.02, SHEETS 9 AND 10 OF 14M TEMPORARILY CLOSE THE I-85 NB CENTER LANE AND:
  - REMOVE P.C.B. FROM THE CLOSED RIGHT LANE.
  - REMOVE TEMPORARY PAVEMENT MARKINGS FROM THE I-85 NB RIGHT LANE AND NB ENTRANCE RAMP FROM NC 8.
  - INSTALL PAINT PAVEMENT MARKINGS IN ORIGINAL PATTERN ON THE I-85 NB RIGHT LANE AND NB ENTRANCE RAMP FROM NC 8.

REMOVE ALL LANE CLOSURE SIGNS AND DEVICES AND REOPEN ALL NORTHBOUND LANES TO TRAFFIC.

### I-85 SLAB REPLACEMENT

THIS WORK MAY BE COMPLETED AT ANY TIME WHEN NOT IN CONFLICT WITH FULL-DEPTH PAVED SHOULDER RECONSTRUCTION, SHOULDER SLAB REPLACEMENT AND BRIDGE REHABILITATION.

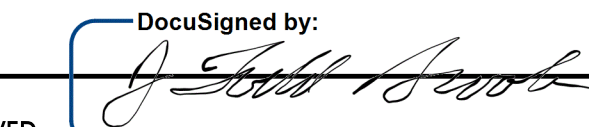
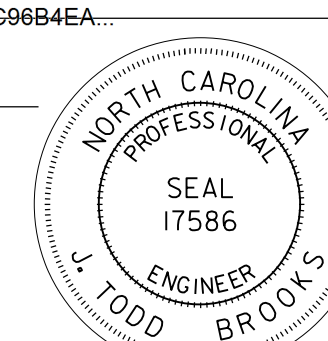

FOR EACH WORK LOCATION, THE CONTRACTOR SHALL COMPLETE THE WORK REQUIRED IN STEPS 1 THROUGH 3 DURING ALLOWABLE OVERNIGHT LANE CLOSURE HOURS.

CONTINUED ON SHEET TMP-3A

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I-85 SB RIGHT LANE SLAB AT EXIT 88 - NC 47 (HARGRAVE RD)

- STEP 1: USING SHEETS TMP-1C AND TMP-9, TEMPORARILY CLOSE THE RIGHT AND CENTER LANES ON I-85 SOUTHBOUND APPROACHING EXIT 88 AND TEMPORARILY CLOSE EXIT 88. MAINTAIN A SINGLE LANE OF TRAFFIC IN THE LEFT LANE OF I-85 THROUGH WORK AREA AND DETOUR EXIT 88 TRAFFIC VIA EXIT 86 AND I-85 NB AS SHOWN ON TMP-26.
- STEP 2: BEHIND LANE CLOSURE, REMOVE AND REPLACE SLAB IN RIGHT LANE UP TO ELEVATION OF EXISTING PAVEMENT AS SHOWN ON TMP-9.
- STEP 3: REMOVE TRAFFIC CONTROL DEVICES AND REOPEN ALL LANES AND EXIT 88 RAMP TO TRAFFIC.

I-85 SB CENTER LANE SLAB AT EXIT 88 - NC 47 (HARGRAVE RD)

- STEP 1: USING SHEETS TMP-1C AND TMP-10, TEMPORARILY CLOSE THE LEFT AND CENTER LANES ON I-85 SOUTHBOUND APPROACHING EXIT 88 AND MAINTAIN A SINGLE LANE OF TRAFFIC IN THE RIGHT LANE THROUGH WORK AREA.
- STEP 2: BEHIND LANE CLOSURE, REMOVE AND REPLACE SLAB IN CENTER LANE UP TO ELEVATION OF EXISTING PAVEMENT AS SHOWN ON TMP-10
- STEP 3: REMOVE TRAFFIC CONTROL DEVICES AND REOPEN ALL LANES TO TRAFFIC.

I-85 SB LEFT LANE SLAB AT EXIT 88 - NC 47 (HARGRAVE RD)

- STEP 1: USING SHEETS TMP-1C AND TMP-11, TEMPORARILY CLOSE THE LEFT AND CENTER LANES ON I-85 SOUTHBOUND APPROACHING EXIT 88 AND MAINTAIN A SINGLE LANE OF TRAFFIC IN THE RIGHT LANE THROUGH WORK AREA.
- STEP 2: BEHIND LANE CLOSURE, REMOVE AND REPLACE SLAB IN LEFT LANE UP TO ELEVATION OF EXISTING PAVEMENT AS SHOWN ON TMP-11
- STEP 3: REMOVE TRAFFIC CONTROL DEVICES AND REOPEN ALL LANES TO TRAFFIC.

I-85 NB LEFT LANE SLAB AT ABBOTTS CREEK

- STEP 1: USING SHEETS TMP-1C AND TMP-11, TEMPORARILY CLOSE THE LEFT AND CENTER LANES ON I-85 NORTHBOUND APPROACHING ABBOTTS AND MAINTAIN A SINGLE LANE OF TRAFFIC IN THE RIGHT LANE THROUGH WORK AREA.
- STEP 2: BEHIND LANE CLOSURE, REMOVE AND REPLACE SLAB IN LEFT LANE UP TO ELEVATION OF EXISTING PAVEMENT AS SHOWN ON TMP-18
- STEP 3: REMOVE TRAFFIC CONTROL DEVICES AND REOPEN ALL LANES TO TRAFFIC.

I-85 SB LEFT LANE SLAB AT EXIT 96 - US 64

- STEP 1: USING SHEETS TMP-1C, TMP-19 AND TMP-20, TEMPORARILY CLOSE THE LEFT AND CENTER LANES ON I-85 SOUTHBOUND AT EXIT 96 AND MAINTAIN A SINGLE LANE OF TRAFFIC IN THE RIGHT LANE THROUGH WORK AREA.
- STEP 2: BEHIND LANE CLOSURE, REMOVE AND REPLACE SLAB IN LEFT LANE UP TO ELEVATION OF EXISTING PAVEMENT AS SHOWN ON TMP-19
- STEP 3: REMOVE TRAFFIC CONTROL DEVICES AND REOPEN ALL LANES TO TRAFFIC.

I-85 SB CENTER LANE SLAB AT EXIT 96 - US 64

- STEP 1: USING DETAIL SHEETS TMP-21 THROUGH TMP-23, TEMPORARILY CLOSE I-85 SOUTHBOUND AT EXIT 96 AND DETOUR ALL I-85 SOUTHBOUND TRAFFIC VIA THE EXIT 96 SOUTHBOUND EXIT AND ENTRANCE RAMPS DURING ALLOWABLE OVERNIGHT HOURS. PROVIDE LAW ENFORCEMENT TO DIRECT DETOURED I-85 SOUTHBOUND TRAFFIC THROUGH US 64 AT I-85 SB RAMPS INTERSECTION (SEE DETAIL SHEET TMP-21).
- STEP 2: BEHIND ROAD CLOSURE, REMOVE AND REPLACE SLAB IN CENTER LANE UP TO ELEVATION OF EXISTING PAVEMENT AS SHOWN ON TMP-21.
- STEP 3: REMOVE TRAFFIC CONTROL DEVICES AND REOPEN ALL LANES TO TRAFFIC.

I-85 SB RIGHT LANE SLAB AT EXIT 96 - US 64

- STEP 1: USING SHEETS TMP-1C, TMP-24 AND TMP-25, TEMPORARILY CLOSE THE RIGHT AND CENTER LANES ON I-85 SOUTHBOUND AT EXIT 96 DURING ALLOWABLE OVERNIGHT HOURS AND MAINTAIN A SINGLE LANE OF TRAFFIC IN THE LEFT LANE OF I-85 THROUGH WORK AREA.
- STEP 2: BEHIND LANE CLOSURE, REMOVE AND REPLACE SLAB IN RIGHT LANE UP TO ELEVATION OF EXISTING PAVEMENT AS SHOWN ON TMP-24.
- STEP 3: REMOVE TRAFFIC CONTROL DEVICES AND REOPEN ALL LANES TO TRAFFIC.

**BRIDGE REHABILITATION**

THIS WORK MAY BE COMPLETED AT ANY TIME WHEN NOT IN CONFLICT WITH SLAB REPLACEMENTS, FULL-DEPTH SHOULDER RECONSTRUCTION AND RAMP CLOSURES AND DETOURS.

I-85 MAINLINE BRIDGES

REHABILITATE THE FOLLOWING MAINLINE BRIDGES ON I-85:

BRIDGE NO.	ROUTE	OVER	PROJECT OVERVIEW
147	I-85 NB	NSRR	TMP-4
152	I-85 SB	NSRR	TMP-4
154	I-85 NB	SWEARING CREEK	TMP-4
157	I-85 SB	SWEARING CREEK	TMP-4
170	I-85 NB	ABBOTTS CREEK	TMP-5
171	I-85 SB	ABBOTTS CREEK	TMP-5

PERFORM JOINT REPAIRS USING SHEETS TMP-1B AND TMP-1C TO CLOSE 1 OR 2 LANES OF I-85 DURING PERMISSIBLE LANE CLOSURE HOURS.

CONSTRUCT PC OVERLAY OF BRIDGE DECKS USING SHEET TMP-1C. CLOSE 2 OF 3 LANES ON I-85 DURING PERMISSIBLE LANE CLOSURE HOURS.

CONTINUED ON SHEET TMP-3B

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SUITE 410  
RALEIGH, NC 27607  
PHONE: 919.881.9939  
NC COA No. F-0929

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PAINT BEAM ENDS AND SHOTCRETE BRIDGES USING RSD 1101.04 FOR SHOULDER CLOSURES AND SHEET TMP-1B FOR CLOSURE OF ADJACENT LANE ON I-85 DURING PERMISSIBLE LANE CLOSURE HOURS.

PAINT BEAM ENDS AND SHOTCRETE OVERPASSES

PAINT BEAM ENDS AND SHOTCRETE BRIDGES OVER I-85 USING RSD 1101.04 FOR SHOULDER CLOSURES ON I-85 AND SHEET TMP-1B FOR CLOSURE OF ADJACENT LANE ON I-85 DURING PERMISSIBLE LANE CLOSURE HOURS.

I-285 NB BRIDGE #137 OVER I-85

REPAIR JOINTS AND PLACE LMC ON BRIDGE DECK DURING PERMISSIBLE LANE CLOSURE HOURS AS FOLLOWS:  
 - FOR RIGHT HALF OF BRIDGE, IMPLEMENT RIGHT LANE CLOSURE ON I-285 NB BETWEEN I-85 NB EXIT GORE AND BRIDGE OVER I-85 USING SHEET TMP-1B.  
 - FOR LEFT HALF OF BRIDGE, IMPLEMENT A WEAVE LANE CLOSURE OF I-285 LEFT LANE USING RSD 1101.02, SHEET 5 OF 14.

NC 47 (HARGROVE RD) BRIDGE #146 OVER I-85

REPAIR JOINTS AND PLACE LMC ON BRIDGE DECK DURING PERMISSIBLE LANE CLOSURE HOURS USING RSD 1101.02, SHEETS 1 AND 2 OF 14.

NC 8 (COTTON GROVE RD) BRIDGE #092 OVER I-85

REPAIR JOINTS AND PLACE LMC ON BRIDGE DECK DURING PERMISSIBLE LANE CLOSURE HOURS AS FOLLOWS:  
 - CLOSE RIGHT LANE ON SOUTHBOUND NC 8 (COTTON GROVE RD) ALONG WITH WB LEFT TURN LANES ON I-85 SB RAMP AND ON FAIRVIEW RD AS SHOWN ON DETAIL SHEETS TMP-13 AND TMP-13A.  
 - CLOSE LEFT LANE ON SOUTHBOUND NC 8 (COTTON GROVE RD) ALONG WITH WB LEFT TURN LANES ON I-85 SB RAMP AND ON FAIRVIEW RD AS SHOWN ON DETAIL SHEETS TMP-13B AND TMP-13C.  
 - CLOSE RIGHT LANE ON NORTHBOUND NC 8 (COTTON GROVE RD) USING RSD 1101.02, SHEET 3 OF 14 AND DETAIL SHEET TMP-13D.  
 - CLOSE LEFT LANE ON NORTHBOUND NC 8 (COTTON GROVE RD) USING RSD 1101.02, SHEET 3 OF 14

SR 2205 (OLD US 64) BRIDGE #174 OVER I-85

REPAIR JOINTS AND PLACE LMC ON BRIDGE DECK DURING PERMISSIBLE LANE CLOSURE HOURS USING RSD 1101.02, SHEET 1 OF 14.

**MILLING AND RESURFACING (MILL & FILL)**

THIS WORK MUST BE COMPLETED AFTER ALL SLAB REPLACEMENTS AND FULL-DEPTH PAVED SHOULDER RECONSTRUCTION WORK ARE COMPLETE.

STEP 1: USING SHEET TMP-1B AND RSD 1101.02, SHEETS 9 & 10 OF 14 DURING OVERNIGHT WORK PERIODS, MILL AND REPAVE INSIDE AND OUTSIDE SHOULDERS ON I-85 NB & I-85 SB.

USING SHEETS TMP-1B & TMP-1C AND RSD 1101.02, SHEETS 9 & 10 OF 14 DURING OVERNIGHT WORK PERIODS, MILL I-85 TRAVEL LANES, REPAVE UP TO BUT NOT INCLUDING FINAL ULTRA THIN LAYER OF SURFACE COURSE AND REPLACE PAVEMENT MARKINGS USING TEMPORARY PAINT.

STEP 2: IMPLEMENT OVERNIGHT RAMP AND LOOP CLOSURES AND DETOURS TO MILL AND RESURFACE RAMPS AND LOOPS DURING ALLOWABLE WORK HOURS IN ACCORDANCE WITH THE DETOUR DETAILS LISTED BELOW. DO NOT CLOSE RAMPS AND LOOPS AT MORE THAN ONE INTERCHANGE AT A TIME. AT EACH INTERCHANGE, DO NOT CLOSE AND DETOUR MORE THAN THE TWO RAMPS/LOOPS SHOWN ON EACH DETAIL BELOW AT THE SAME TIME.

- NC 47 (HARGRAVE RD) RAMPS A & D - SEE DETOUR DETAIL SHEET TMP-26
- NC 47 (HARGRAVE RD) RAMPS B & C - SEE DETOUR DETAIL SHEET TMP-27
- NC 8 (COTTON GROVE RD) RAMP A & LOOP A - SEE DETOUR DETAIL SHEET TMP-28
- NC 8 (COTTON GROVE RD) RAMP D & LOOP D - SEE DETOUR DETAIL SHEET TMP-29
- E. OLD US 64 RAMPS A & D - SEE DETOUR DETAIL SHEET TMP-30
- E. OLD US 64 RAMPS B & C - SEE DETOUR DETAIL SHEET TMP-31
- US 64 RAMPS A & D - SEE DETOUR DETAIL SHEET TMP-32
- US 64 RAMPS B & C - SEE DETOUR DETAIL SHEETS TMP-33 & TMP-34

STEP 3: UPON COMPLETION OF RESURFACING OF THE RAMP/LOOP, RESTORE ORIGINAL PAVEMENT MARKINGS USING TEMPORARY PAINT, THEN REOPEN THE RAMP/LOOP TO TRAFFIC AND DISCONTINUE THE DETOUR.

STEP 4: USING SHEET TMP-1B AND RSD 1101.02, SHEETS 9 & 10 OF 14, COMPLETE THE FOLLOWING DURING OVERNIGHT PERIODS:

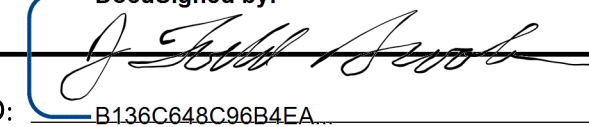
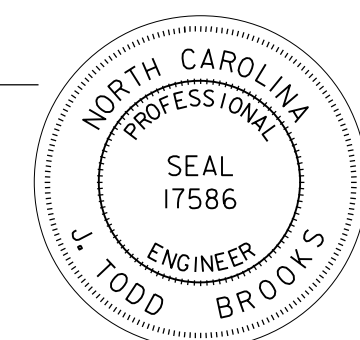
- PAVE FINAL ULTRA THIN LAYER OF SURFACE COURSE ON I-85 TRAFFIC LANES.
- PLACE FINAL PAVEMENT MARKINGS AND FINAL MARKERS ON I-85 AND ASSOCIATED LOOPS AND RAMPS.
- MILL RUMBLE STRIPS INTO MEDIAN AND OUTSIDE SHOULDERS OF I-85 NB AND I-85 SB.

STEP 5: REMOVE ALL TRAFFIC CONTROL DEVICES WITHIN THE PROJECT LIMITS.

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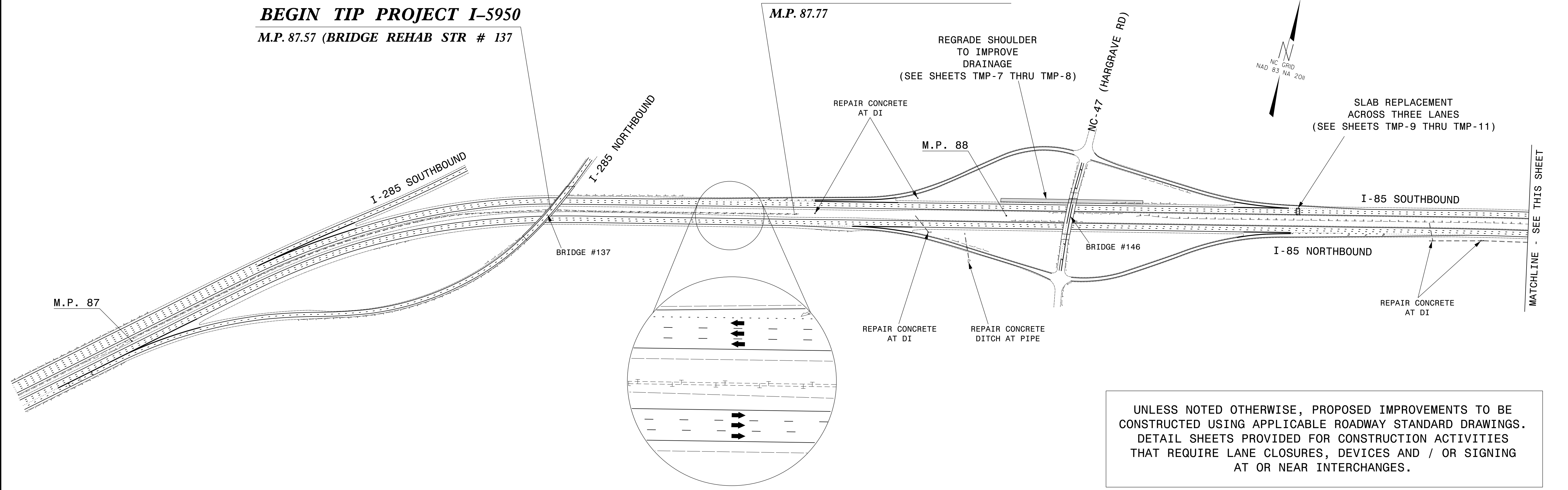
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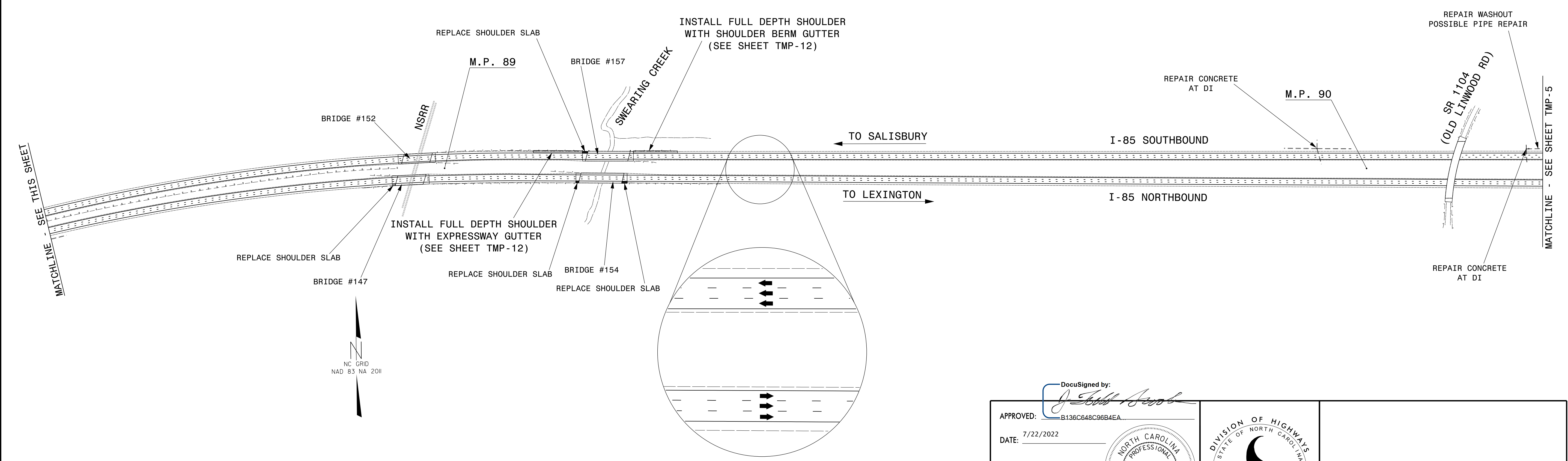
PROJ. REFERENCE NO.	SHEET NO.
I-5950	TMP-4

**BEGIN TIP PROJECT I-5950**  
M.P. 87.57 (BRIDGE REHAB STR # 137)

**BEGIN ROADWAY REHABILITATION**  
M.P. 87.77



UNLESS NOTED OTHERWISE, PROPOSED IMPROVEMENTS TO BE CONSTRUCTED USING APPLICABLE ROADWAY STANDARD DRAWINGS. DETAIL SHEETS PROVIDED FOR CONSTRUCTION ACTIVITIES THAT REQUIRE LANE CLOSURES, DEVICES AND / OR SIGNING AT OR NEAR INTERCHANGES.



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*J. Todd Brooks*

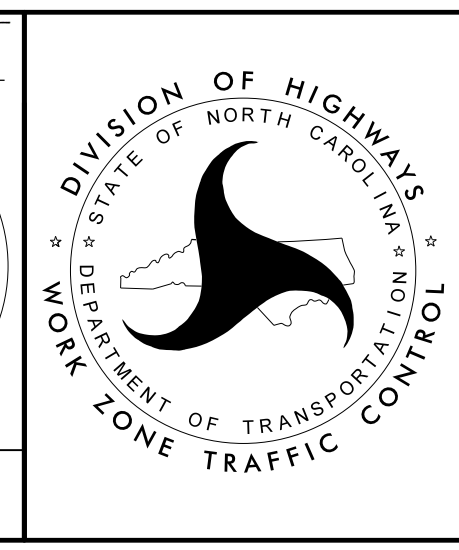
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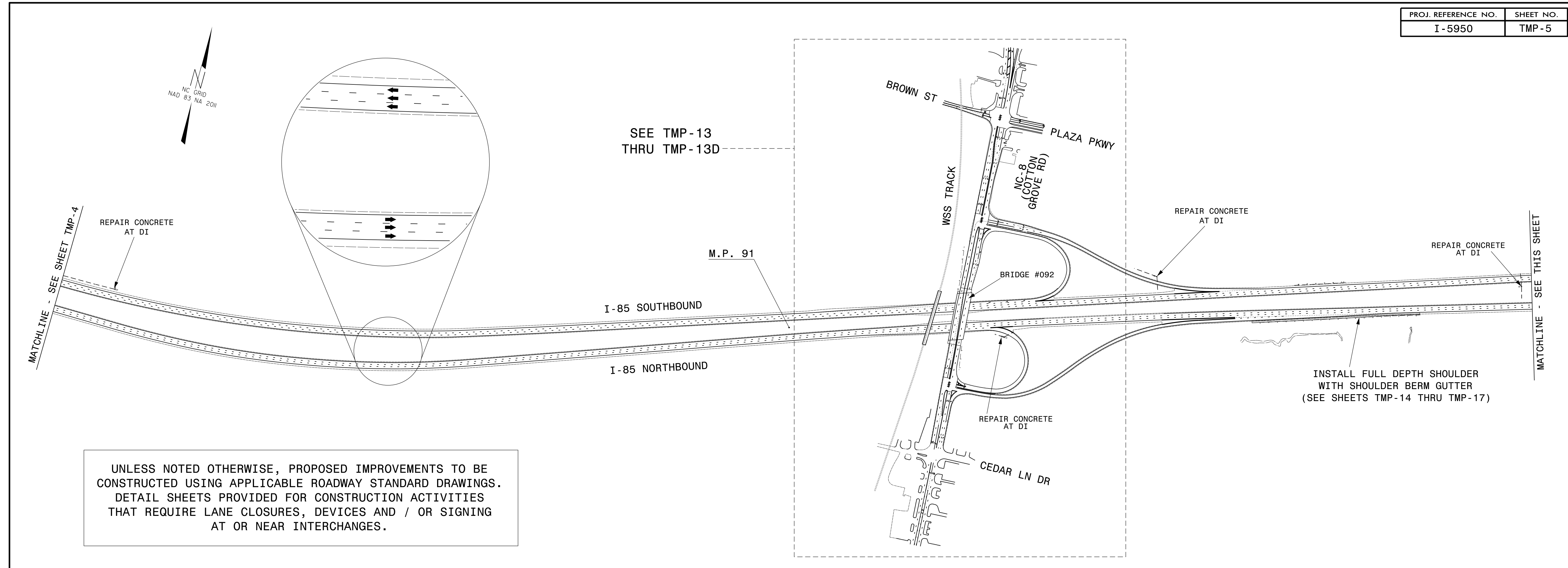
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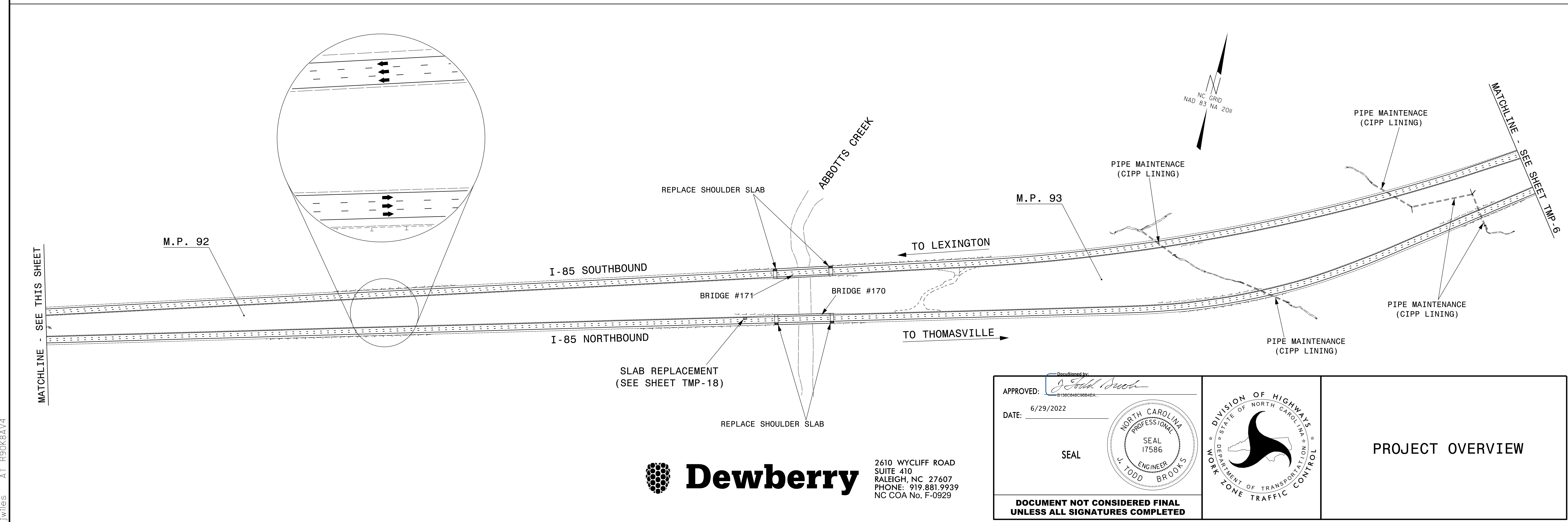


PROJECT OVERVIEW





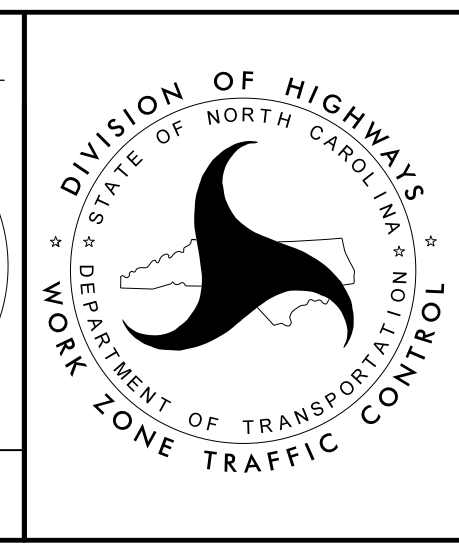
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**Dewberry**  
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 J. TODD BROOKS

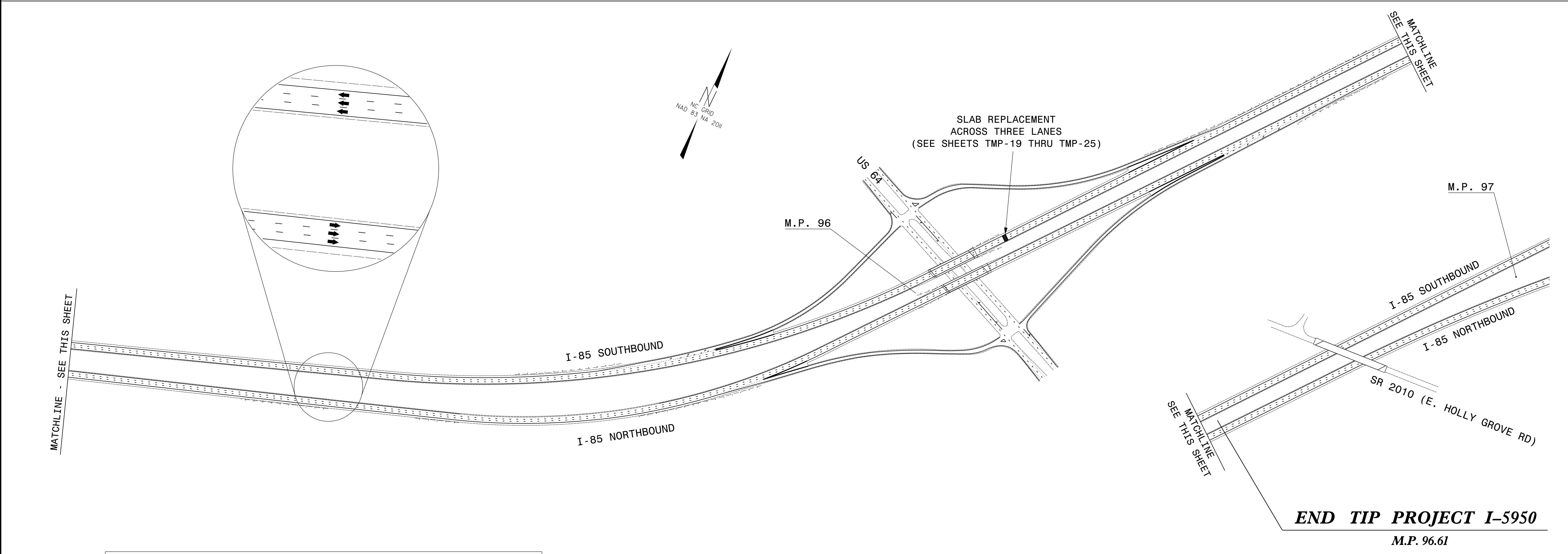
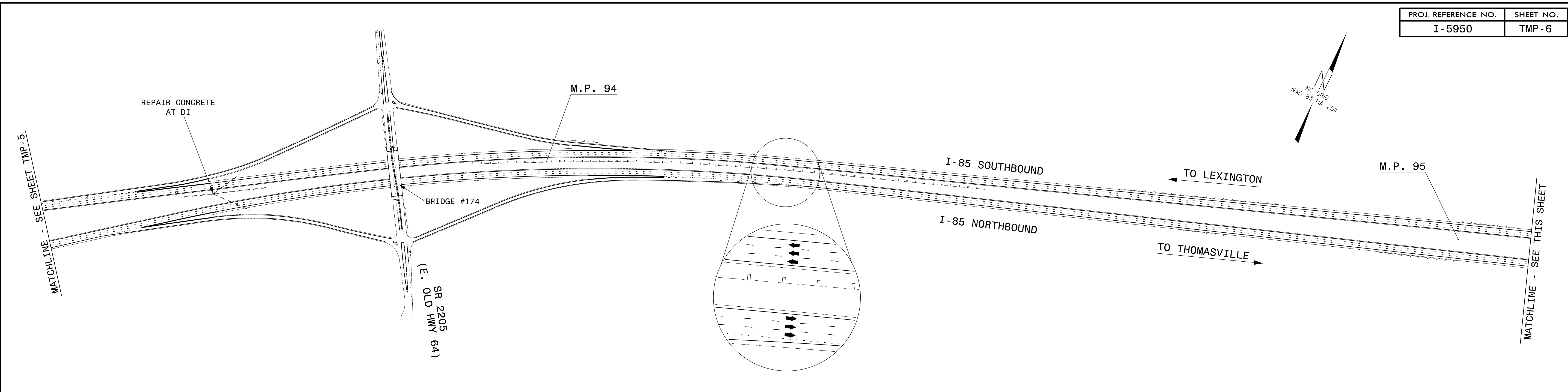


**PROJECT OVERVIEW**

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED



PROJ. REFERENCE NO.	SHEET NO.
I-5950	TMP-6



**END TIP PROJECT I-5950**  
M.P. 96.61

UNLESS NOTED OTHERWISE, PROPOSED IMPROVEMENTS TO BE CONSTRUCTED USING APPLICABLE ROADWAY STANDARD DRAWINGS. DETAIL SHEETS PROVIDED FOR CONSTRUCTION ACTIVITIES THAT REQUIRE LANE CLOSURES, DEVICES AND / OR SIGNING AT OR NEAR INTERCHANGES.



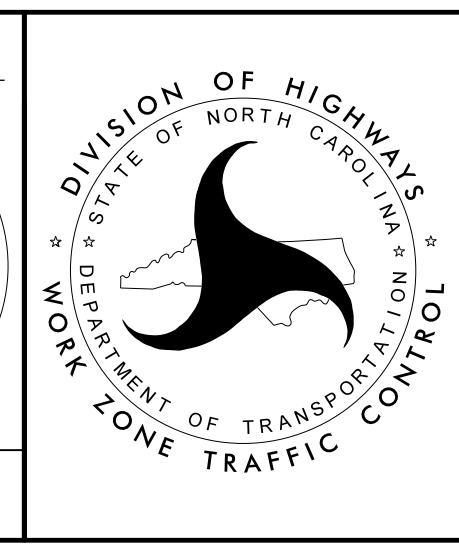
2610 WYCLIFF ROAD  
SUITE 410  
RALEIGH, NC 27607  
PHONE: 919.881.9939  
NC COA No. F-0929

APPROVED: *[Signature]*  
DATE: 6/29/2022

SEAL

**NORTH CAROLINA PROFESSIONAL ENGINEER**  
SEAL 17586  
J. TODD BROOKS

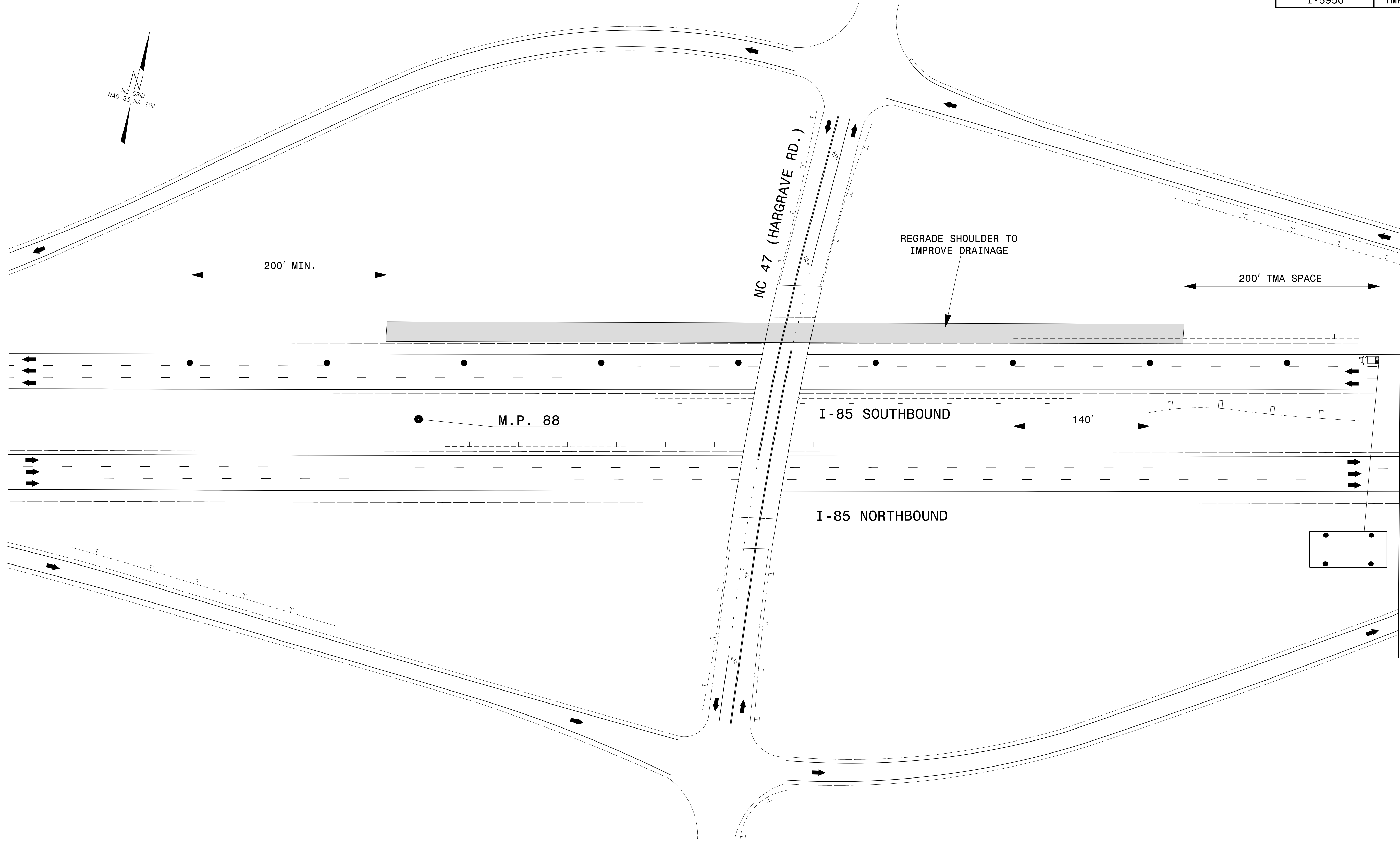
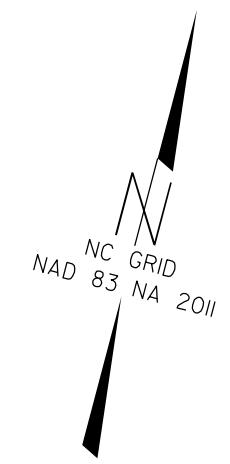
**DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED**



**PROJECT OVERVIEW**

24-JUN-2022 11:26  
P:\50152536\CAD\CIVIL\Plans\200\_OIL\I5950\_TC\_TCP\_06.dgn  
JWiles AT 890K8AV4





ALL PAVEMENT MARKINGS ARE EXISTING UNLESS OTHERWISE NOTED

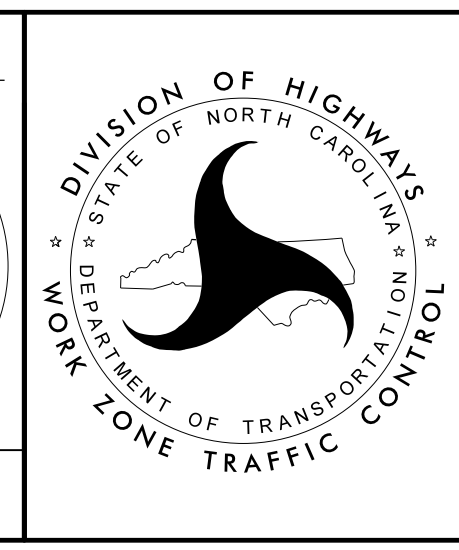


2610 WYCLIFF ROAD  
SUITE 410  
RALEIGH, NC 27607  
PHONE: 919.881.9939  
NC COA No. F-0929

APPROVED: *[Signature]*  
DATE: 6/29/2022

SEAL

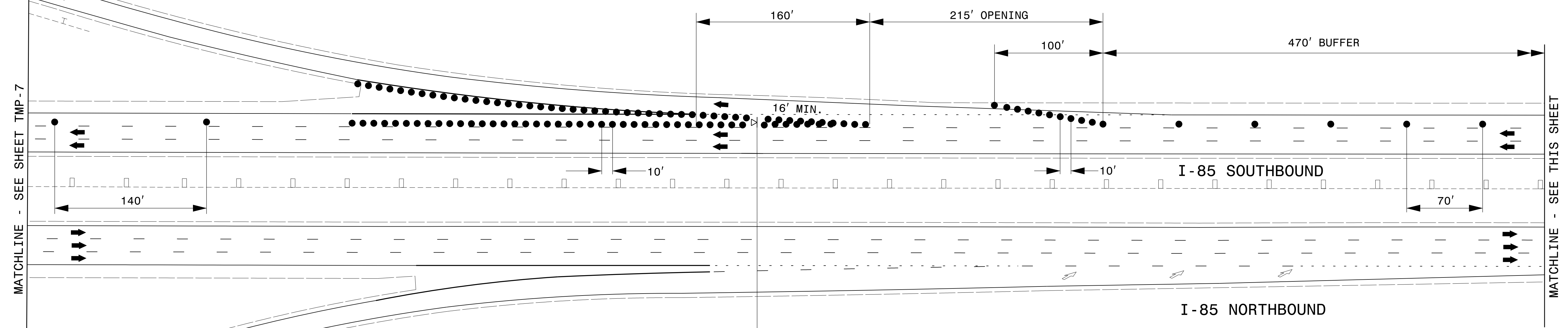
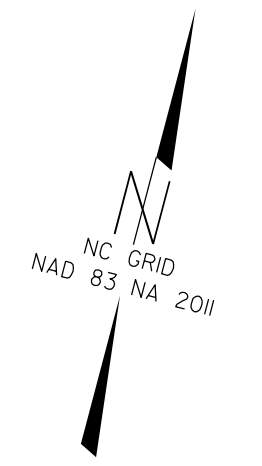
**DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED**



**OVERNIGHT LANE CLOSURE FOR RREGRAIDING I-85 SB SHOULDER AT NC 47**

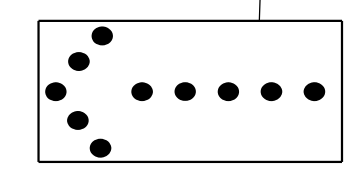
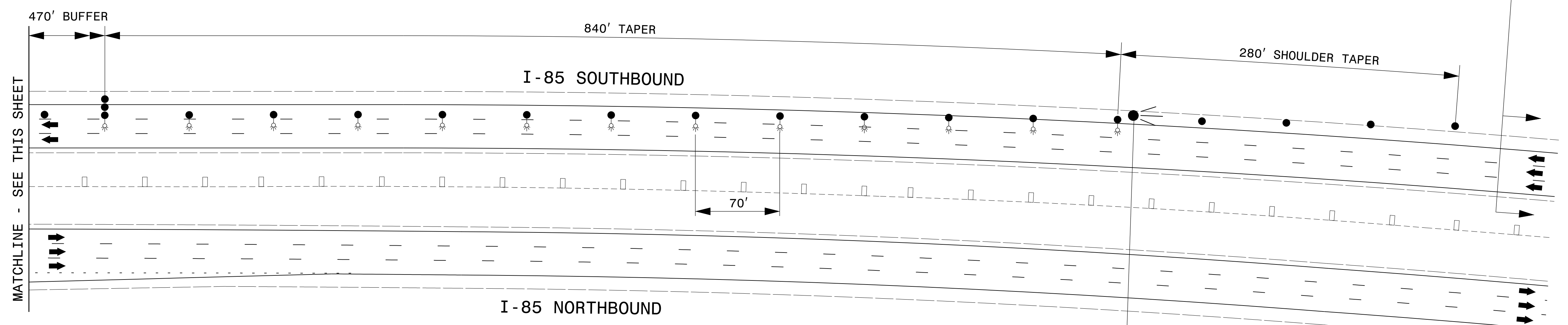
24-JUN-2022 11:26 P:\50152556\CAD\CIVIL\Plans\200\_012\_15950\_TC\_TCP\_07.dgn [wiles AT 890K8AV4]

ALL PAVEMENT MARKINGS ARE EXISTING UNLESS OTHERWISE NOTED



E5-1  
48" X 42"

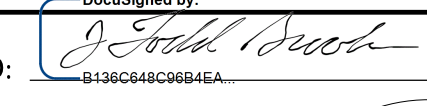
SEE RSD 1101.02, SHEET 4 OF 14,  
FOR LANE CLOSURE SIGNING AND DEVICES



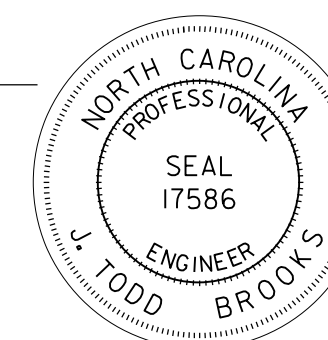
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JWiles AT 890K8AV4



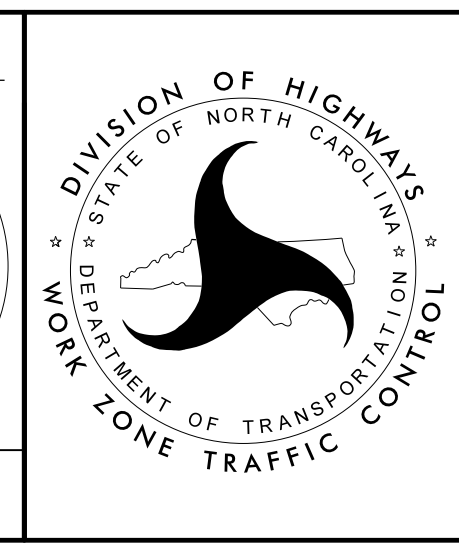
2610 WYCLIFF ROAD  
SUITE 410  
RALEIGH, NC 27607  
PHONE: 919.881.9939  
NC COA No. F-0929

APPROVED:   
DATE: 6/29/2022

SEAL



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

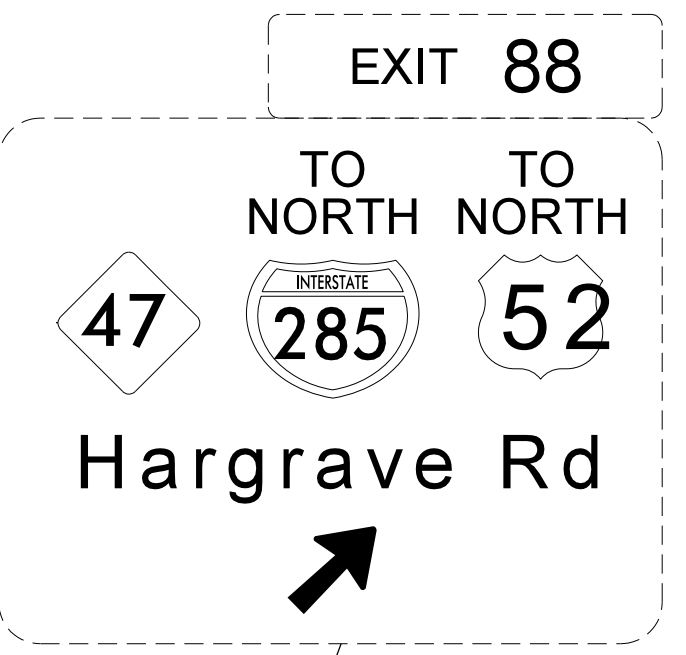
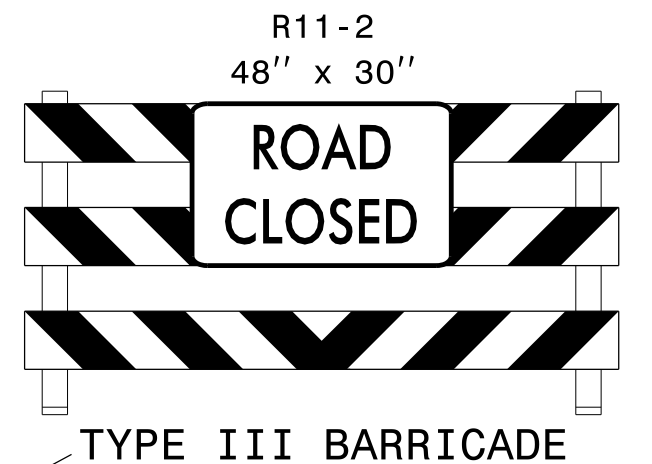


**OVERNIGHT LANE  
CLOSURE FOR  
RREGRAIDING  
I-85 SB SHOULDER  
AT NC 47**

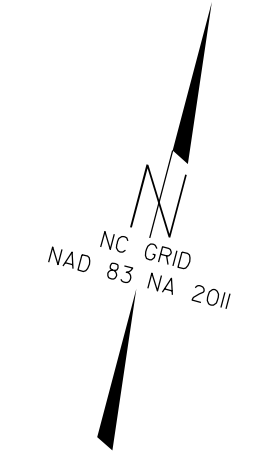
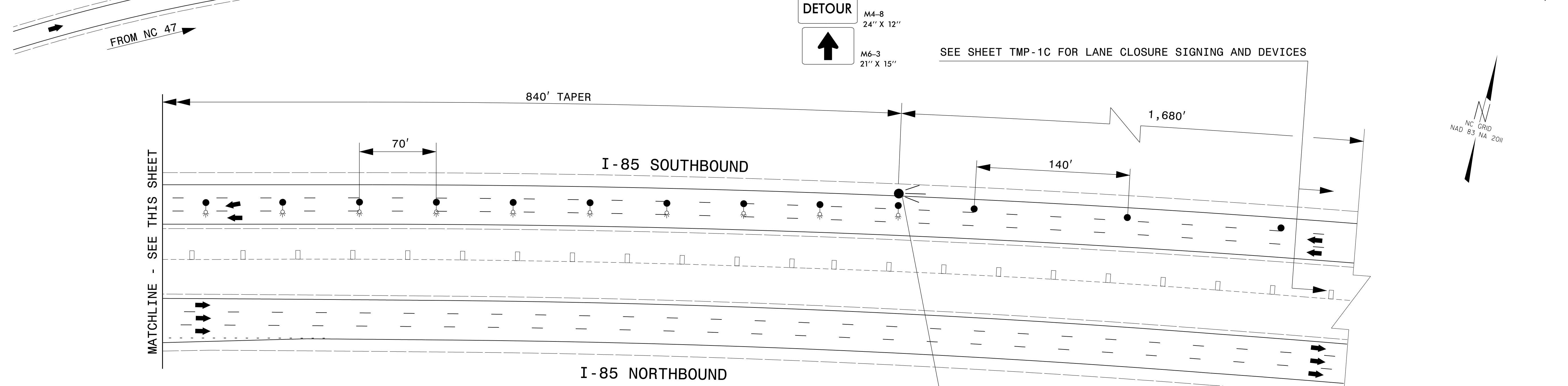
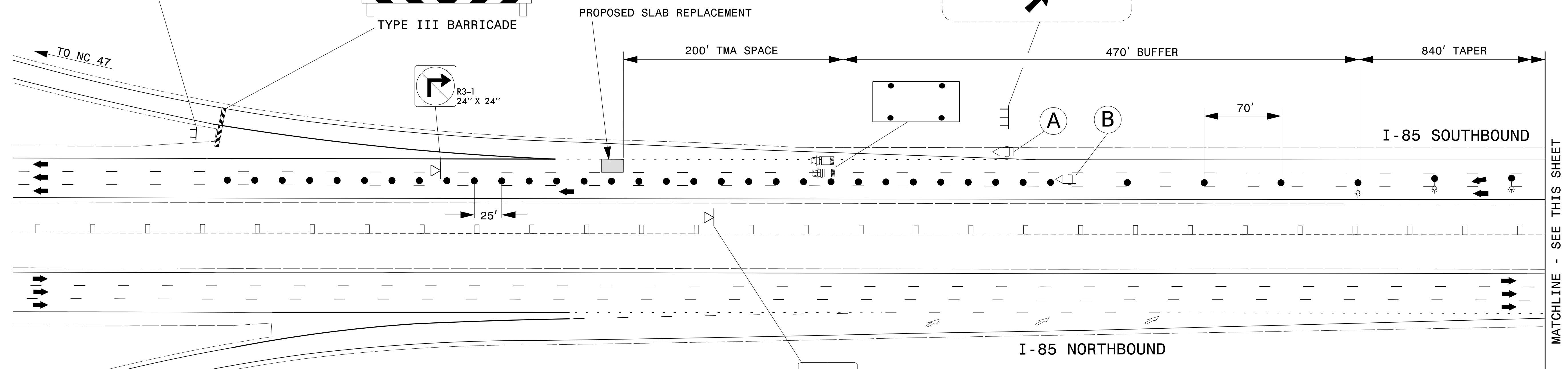


SEE SHEET TMP-26 FOR DETOUR ROUTE

**EXIT 88** ↗



ALL PAVEMENT MARKINGS ARE EXISTING UNLESS OTHERWISE NOTED



**A**

MESSAGE NO. 1	MESSAGE NO. 2
EXIT 88 CLOSED OVERNITE	DETOUR VIA EXIT 91

CHANGEABLE MESSAGE SIGN  
CMS POSITION AND MESSAGE PRIOR TO CLOSURE

**B**

MESSAGE NO. 1	MESSAGE NO. 2
EXIT 88 RAMP CLOSED	DO NOT EXIT

CHANGEABLE MESSAGE SIGN  
CMS POSITION AND MESSAGE DURING CLOSURE

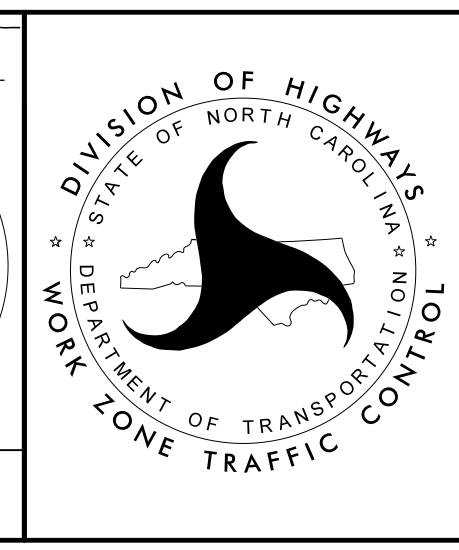
**Dewberry**  
2610 WYCLIFF ROAD  
SUITE 410  
RALEIGH, NC 27607  
PHONE: 919.881.9939  
NC COA No. F-0929

DocuSigned by:  
*J. Todd Brooks*

APPROVED: B136C648C96B4EA...  
DATE: 7/22/2022

SEAL

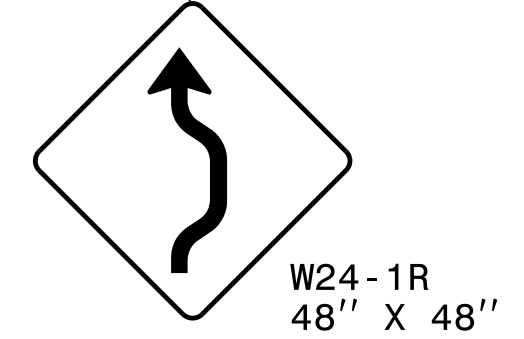
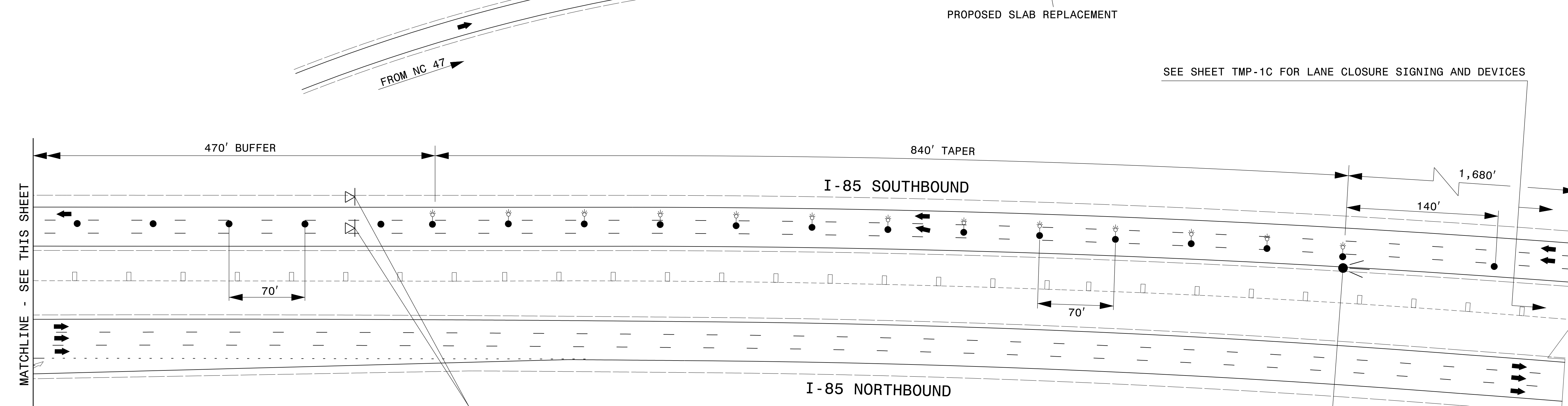
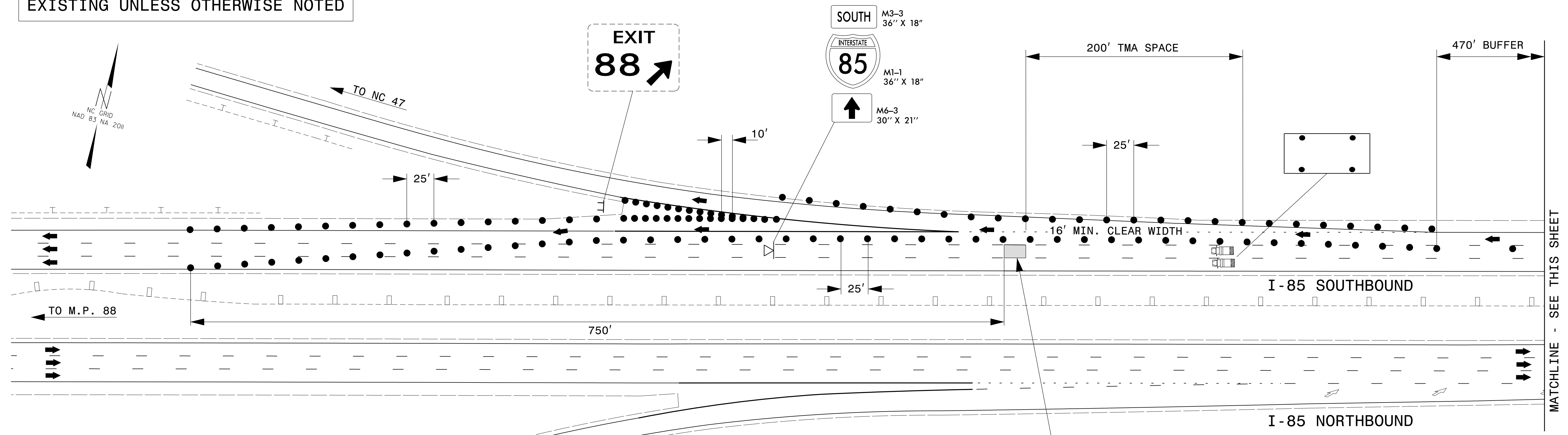
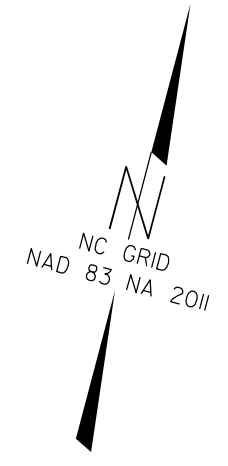
SEAL  
NORTH CAROLINA PROFESSIONAL ENGINEER  
J. TODD BROOKS  
17586



**OVERNIGHT LANE CLOSURES FOR SLAB REPLACEMENT NEAR M.P. 88.31**

22-JUL-2022 07:23  
P:\50152556\CAD\Civil\Plans\200\_04\_15950\_TC\_TCP\_09.dgn  
I:\wiles AT 890K8AV4

ALL PAVEMENT MARKINGS ARE EXISTING UNLESS OTHERWISE NOTED



W24-1R  
48" X 48"  
PLACE JUST INSIDE OF SINGLE-LANE BUFFER ZONE

SEE SHEET TMP-1C FOR LANE CLOSURE SIGNING AND DEVICES

MATCHLINE - SEE THIS SHEET

MATCHLINE - SEE THIS SHEET

22-JUL-2022 07:23  
P:\50152556\CAD\Civil\Plans\200\_015\_15950\_TC\_TCP 10.dgn  
JWiles AT 890K8AV4



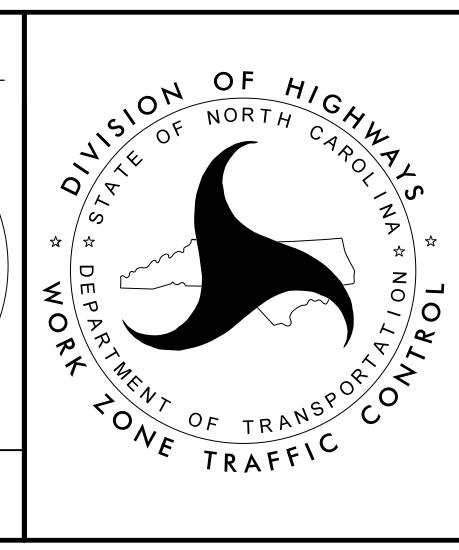
2610 WYCLIFF ROAD  
SUITE 410  
RALEIGH, NC 27607  
PHONE: 919.881.9939  
NC COA No. F-0929

DocuSigned by:  
*J. Todd Brooks*

APPROVED: B136C648C96B4EA  
DATE: 7/22/2022

SEAL

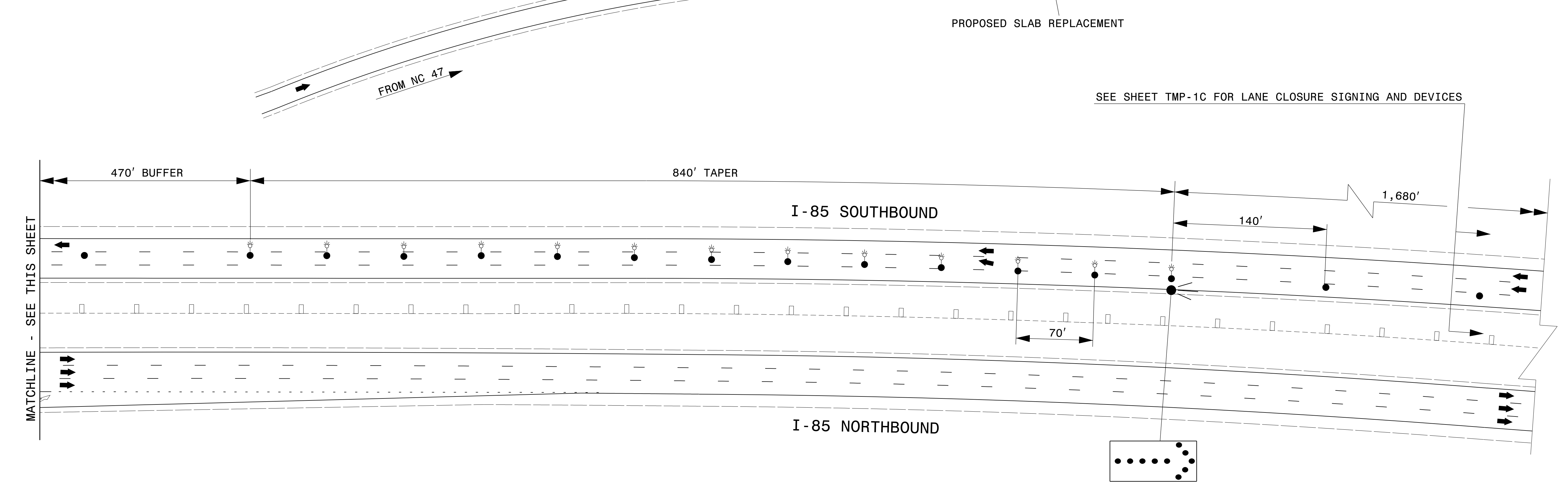
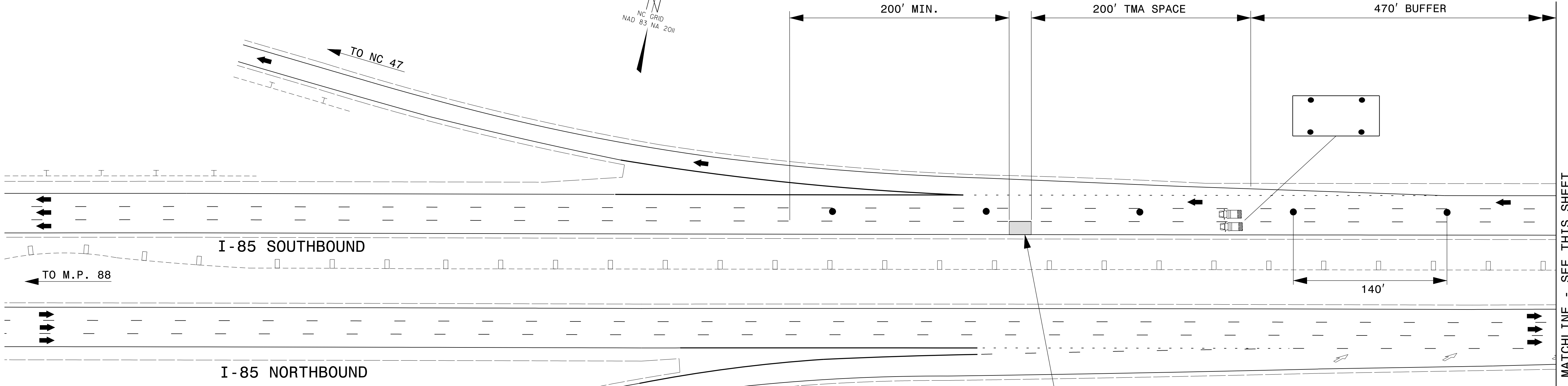
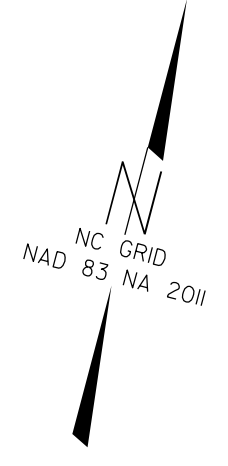
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED



**OVERNIGHT LANE CLOSURES FOR SLAB REPLACEMENT NEAR M.P. 88.31**



ALL PAVEMENT MARKINGS ARE EXISTING UNLESS OTHERWISE NOTED



22-JUL-2022 07:23  
P:\50152556\CAD\Civil\Plans\200\_016\_15950\_TC\_TCP\_IL.dgn  
JWiles AT 890K8AV4



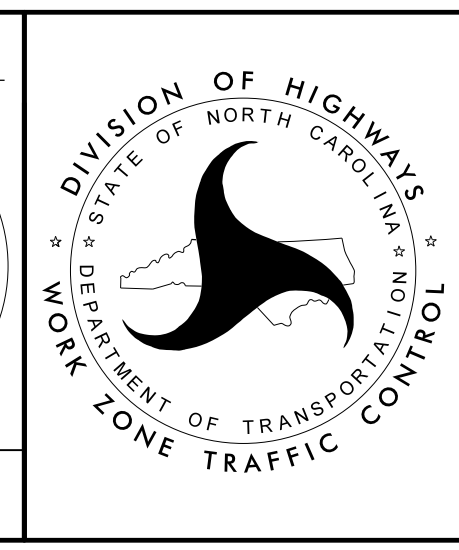
2610 WYCLIFF ROAD  
SUITE 410  
RALEIGH, NC 27607  
PHONE: 919.881.9939  
NC COA No. F-0929

DocuSigned by:  
*J. Todd Brooks*

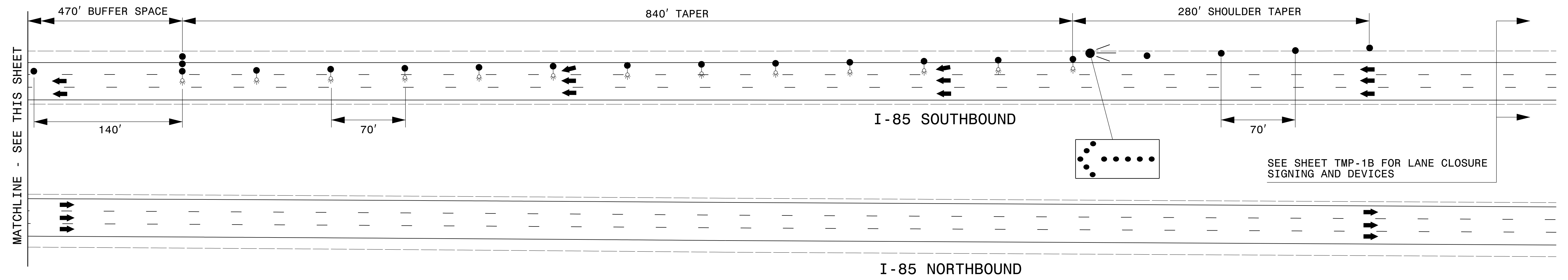
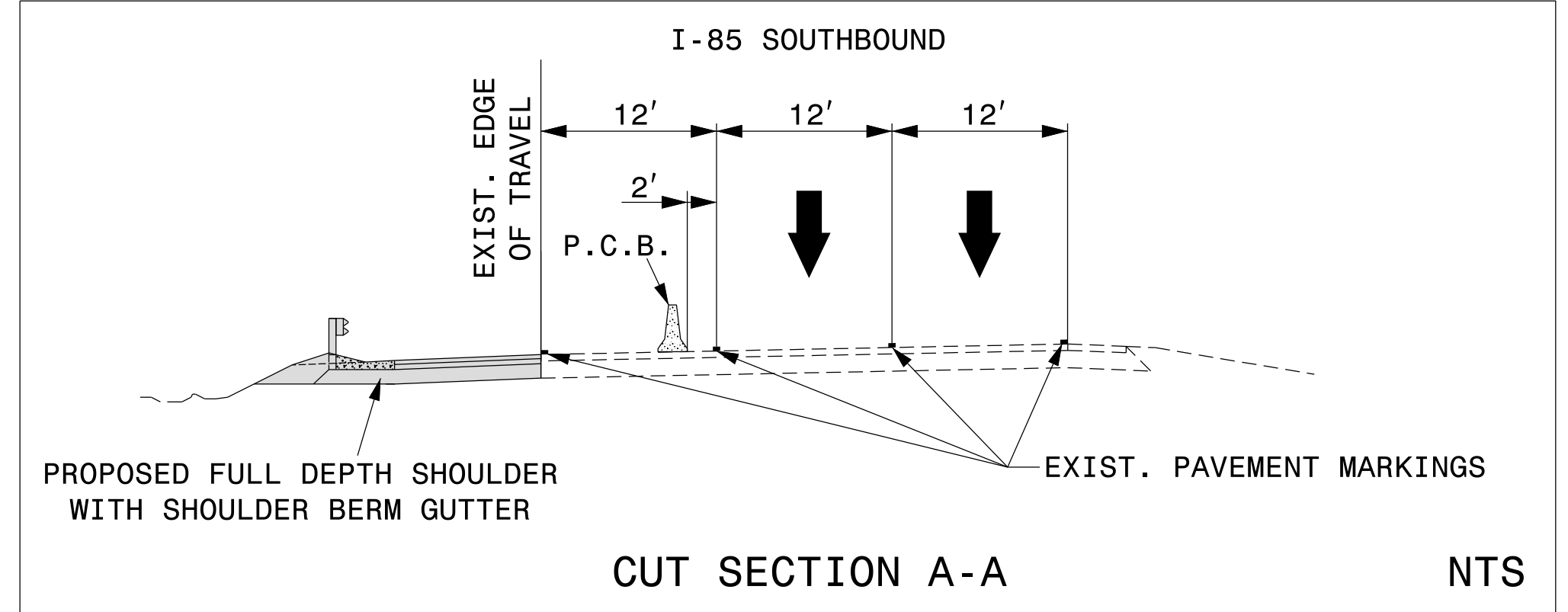
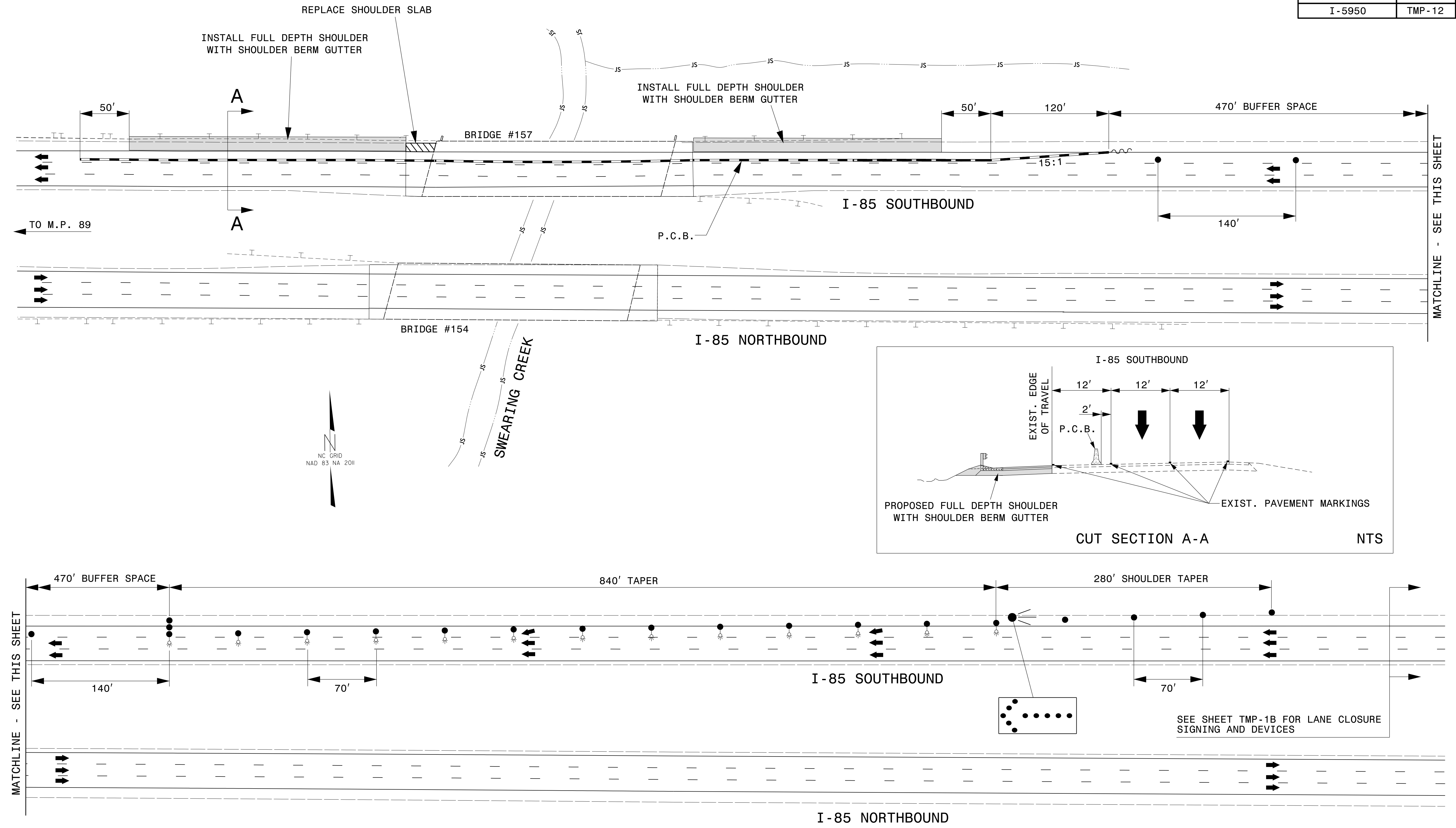
APPROVED: B136C648C96B4EA  
DATE: 7/22/2022

SEAL

DOCUMENT NOT CONSIDERED FINAL  
UNLESS ALL SIGNATURES COMPLETED



**OVERNIGHT LANE CLOSURES FOR SLAB REPLACEMENT NEAR M.P. 88.31**



ALL PAVEMENT MARKINGS ARE EXISTING UNLESS OTHERWISE NOTED



2610 WYCLIFF ROAD  
SUITE 410  
RALEIGH, NC 27607  
PHONE: 919.881.9939  
NC COA No. F-0929

DocuSigned by:  
*[Signature]*

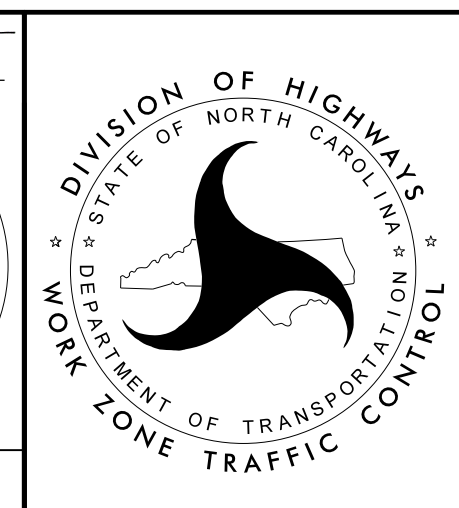
APPROVED: B136C648C96B4EA...

DATE: 7/22/2022

SEAL

**NORTH CAROLINA PROFESSIONAL ENGINEER**  
SEAL 17586  
J. TODD BROOKS

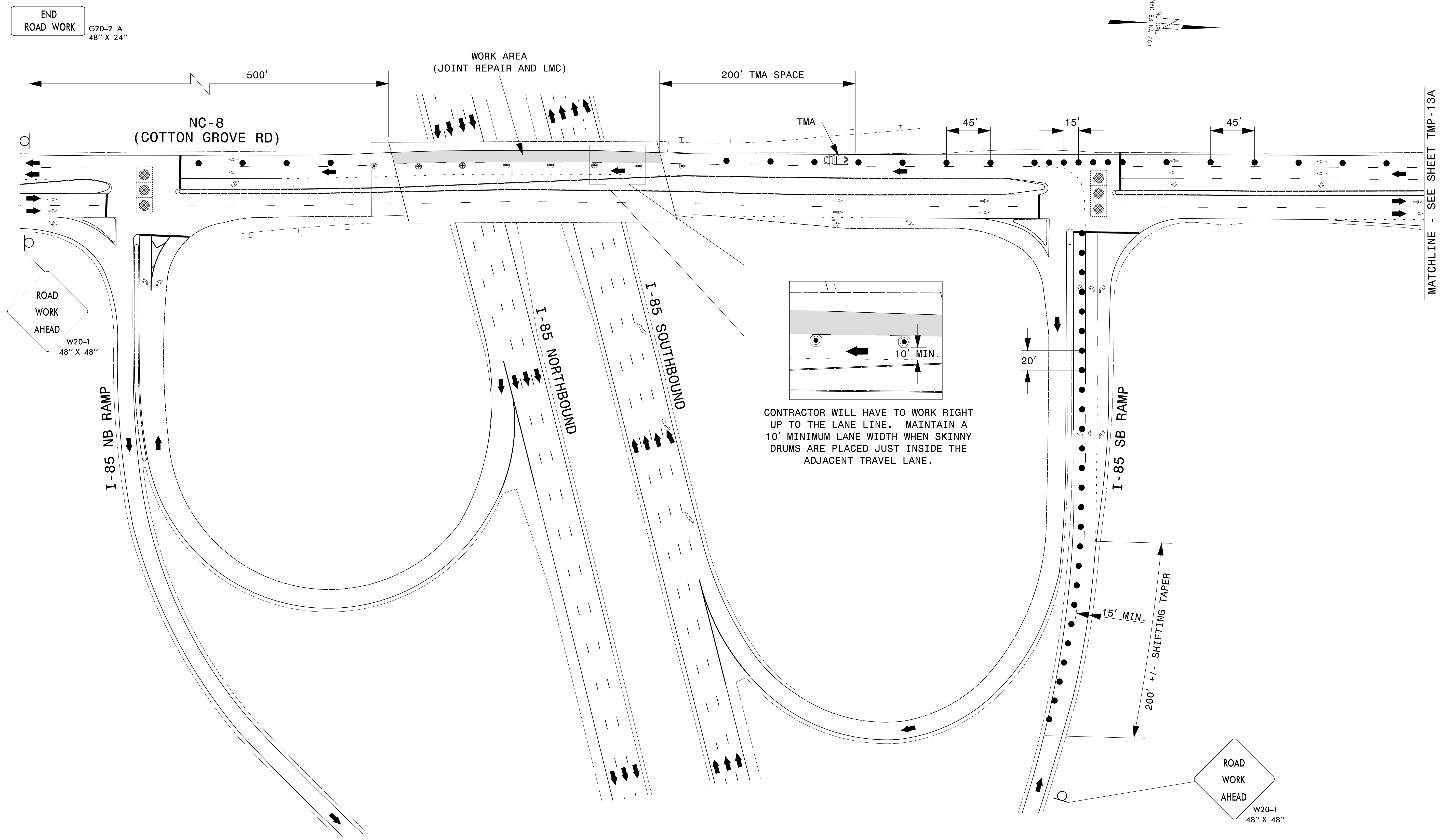
**DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED**



**FULL DEPTH SHOULDER WITH SHOULDER BERM GUTTER**  
SB M.P. 89.29 TO 89.24  
SB M.P. 89.18 TO 89.12

22-JUL-2022 07:23  
P:\50152556\CAD\Civil\Plans\200\_017\_15950\_TC\_TCP 12.dgn  
JWiles AT 890K8AV4





END ROAD WORK  
G20-2 A  
48" X 24"

ROAD WORK AHEAD  
W20-1  
48" X 48"

ALL PAVEMENT MARKINGS ARE EXISTING UNLESS OTHERWISE NOTED

CONTRACTOR WILL HAVE TO WORK RIGHT UP TO THE LANE LINE. MAINTAIN A 10' MINIMUM LANE WIDTH WHEN SKINNY DRUMS ARE PLACED JUST INSIDE THE ADJACENT TRAVEL LANE.

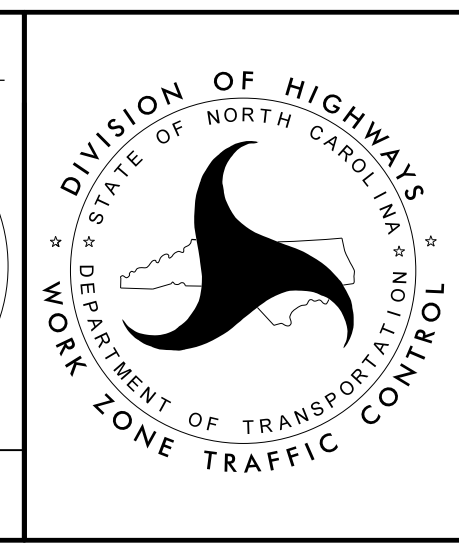
ROAD WORK AHEAD  
W20-1  
48" X 48"

MATCHLINE - SEE SHEET TMP-13A

24-JUN-2022 11:27  
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JWiles AT 590K8AV4

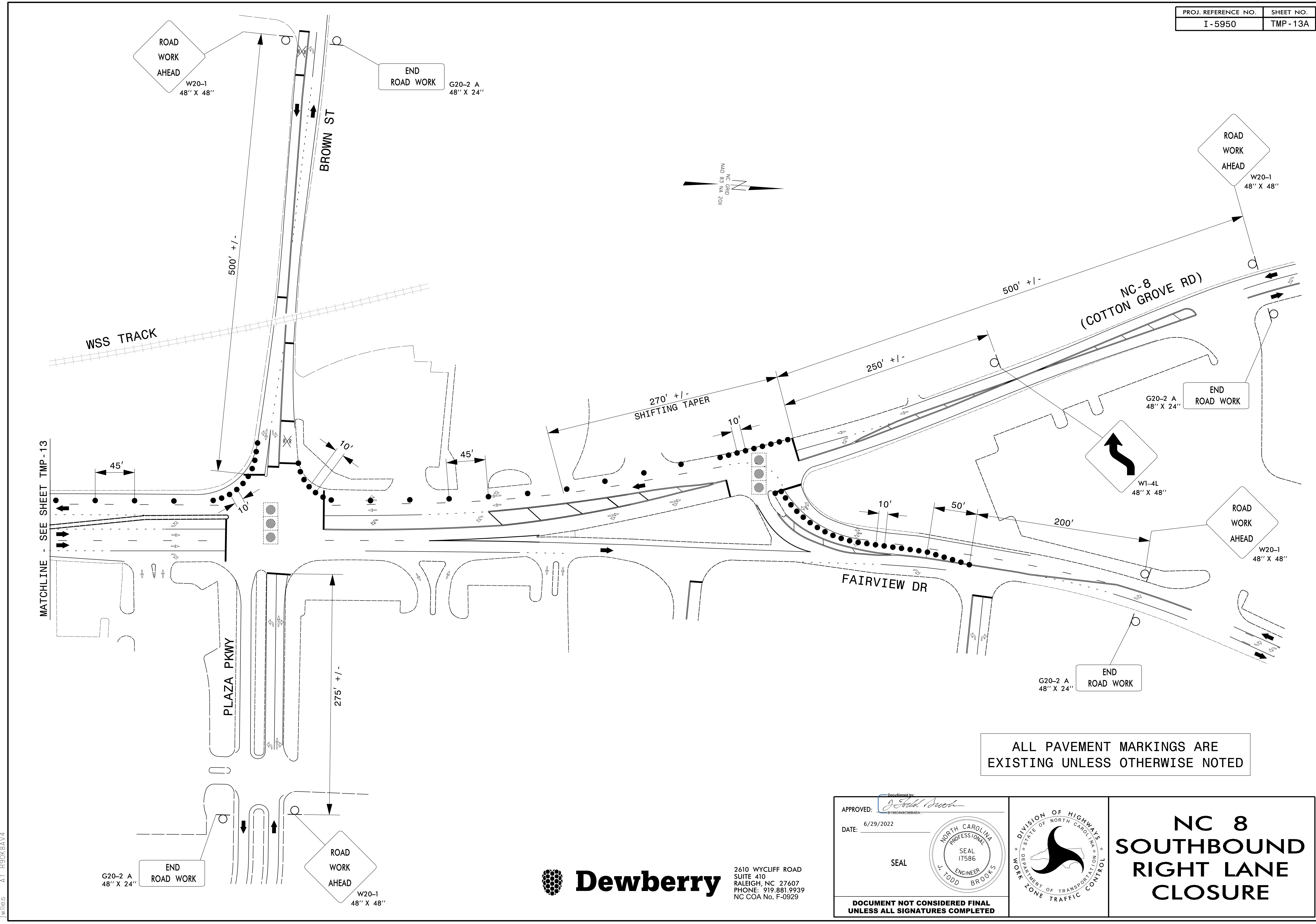
**Dewberry**  
2610 WYCLIFF ROAD  
SUITE 410  
RALEIGH, NC 27607  
PHONE: 919.881.9939  
NC COA No. F-0929

APPROVED: *[Signature]*  
DATE: 6/29/2022  
SEAL  
NORTH CAROLINA PROFESSIONAL ENGINEER  
SEAL 17586  
I. TODD BROOKS



**NC 8 SOUTHBOUND RIGHT LANE CLOSURE**

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED



MATCHLINE - SEE SHEET TMP-13

ALL PAVEMENT MARKINGS ARE EXISTING UNLESS OTHERWISE NOTED

24-JUN-2022 11:27  
P:\50152556\CAD\CIVIL\Plans\200\_019\_15950\_TC\_TCP\_13A.dgn  
JWiles AT 890K8AV4

G20-2 A  
48" X 24" END ROAD WORK

ROAD WORK AHEAD  
W20-1  
48" X 48"

W20-1  
48" X 48"



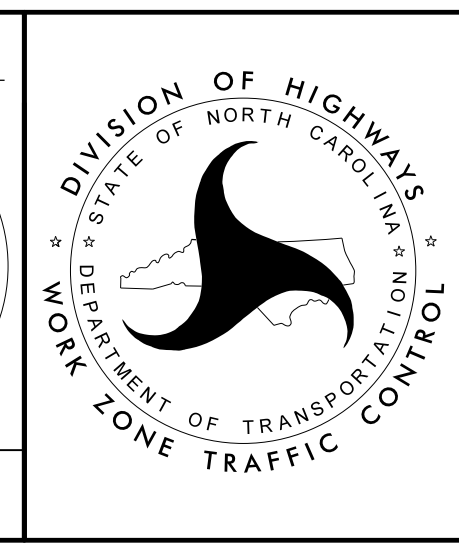
2610 WYCLIFF ROAD  
SUITE 410  
RALEIGH, NC 27607  
PHONE: 919.881.9939  
NC COA No. F-0929

APPROVED: *[Signature]*  
DATE: 6/29/2022

SEAL

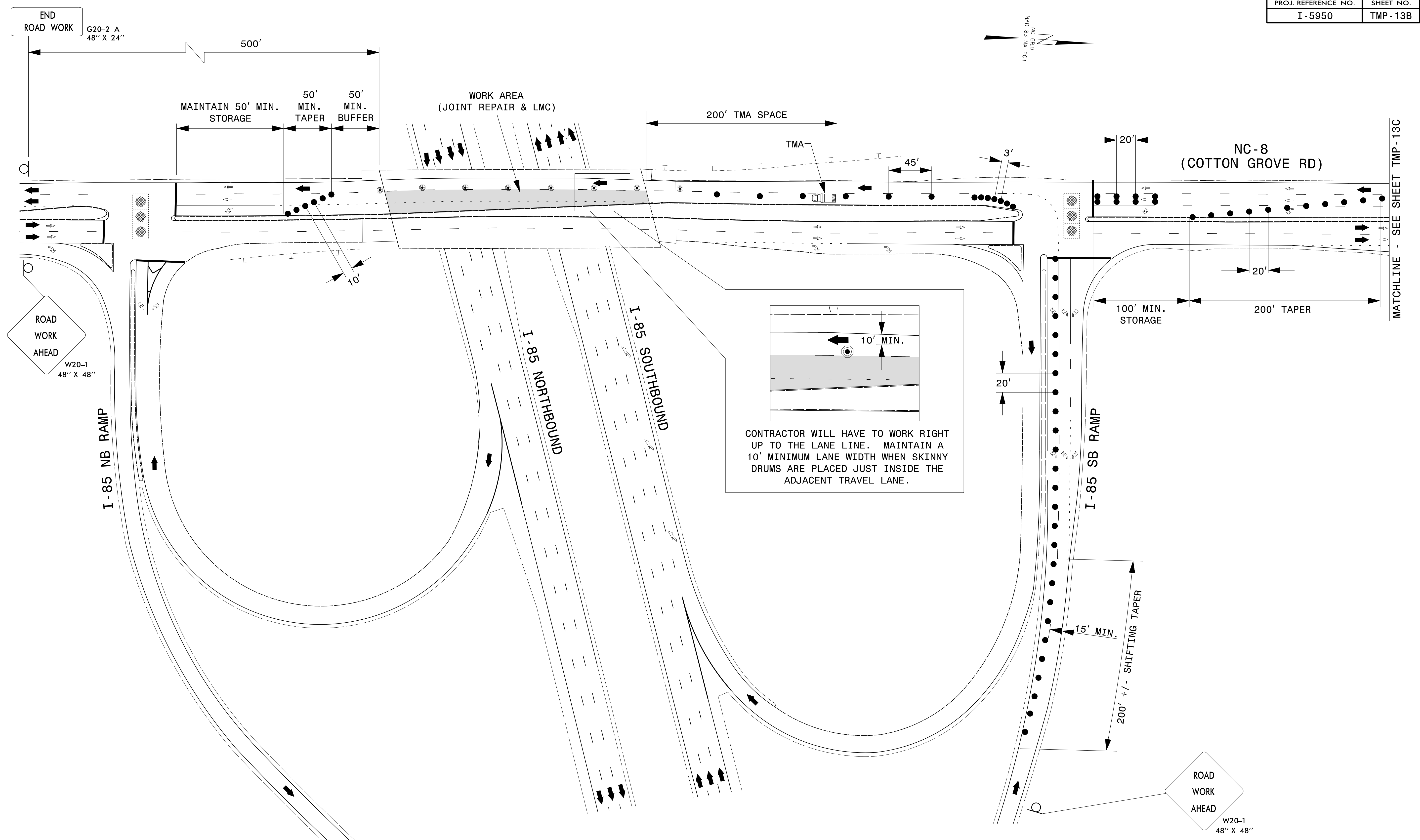
**NORTH CAROLINA PROFESSIONAL ENGINEER**  
SEAL 17586  
J. TODD BROOKS

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



# NC 8 SOUTHBOUND RIGHT LANE CLOSURE





ALL PAVEMENT MARKINGS ARE EXISTING UNLESS OTHERWISE NOTED



2610 WYCLIFF ROAD  
SUITE 410  
RALEIGH, NC 27607  
PHONE: 919.881.9939  
NC COA No. F-0929

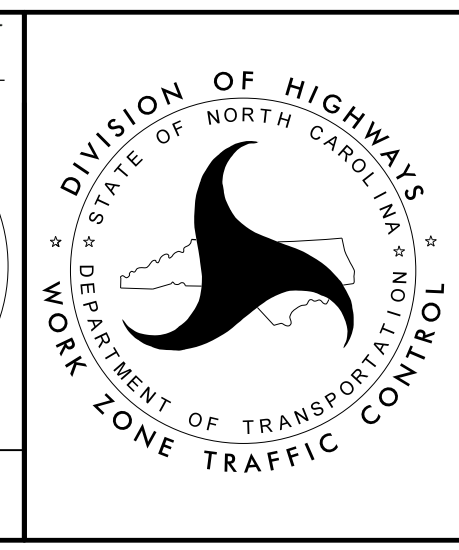
DocuSigned by:  
*J. Todd Brooks*

APPROVED: B136C648C96B4EA  
DATE: 7/22/2022

SEAL

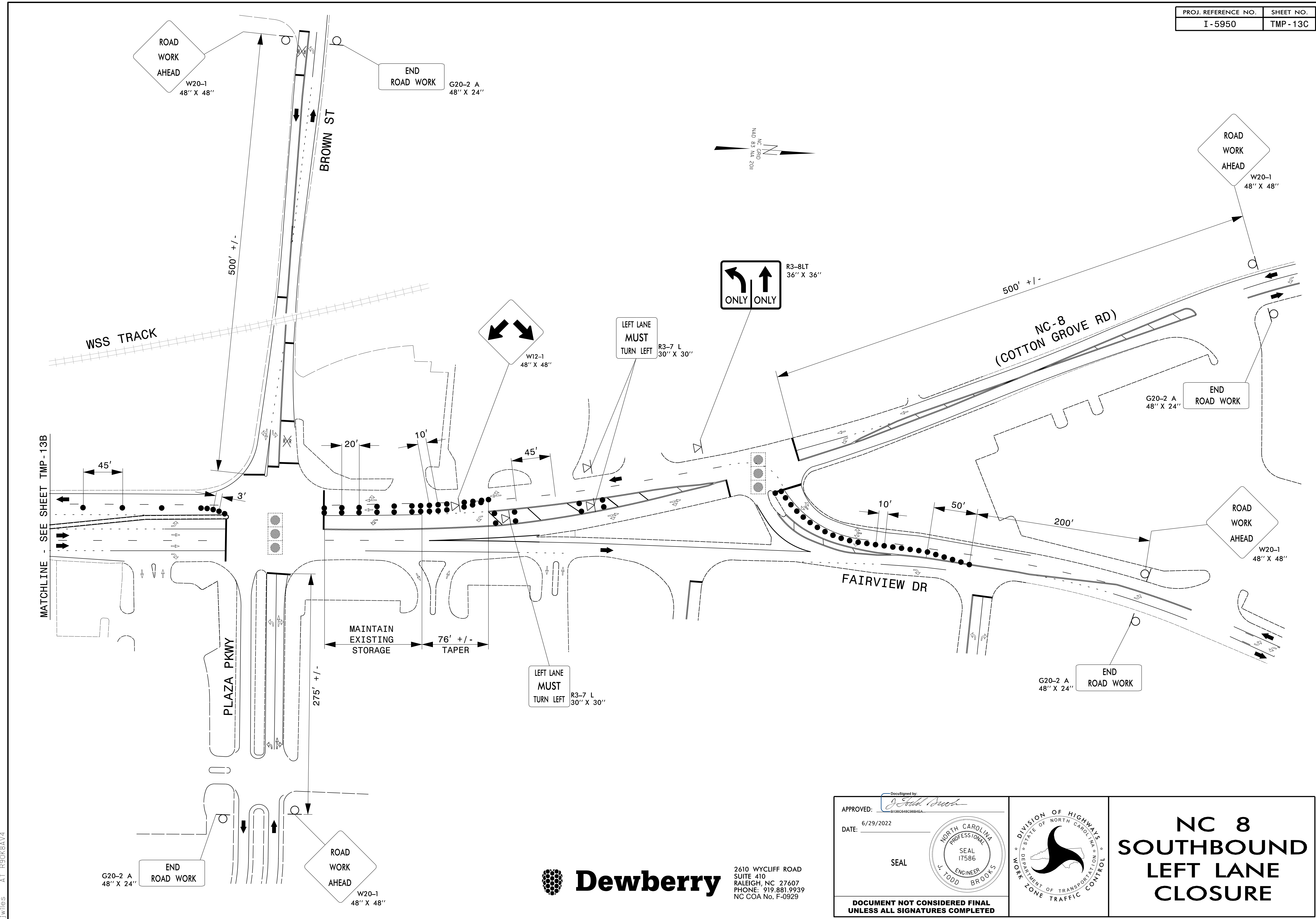
**NORTH CAROLINA PROFESSIONAL ENGINEER**  
SEAL 17586  
J. TODD BROOKS

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



**NC 8 SOUTHBOUND LEFT LANE CLOSURE**

22-JUL-2022 07:23  
P:\50152556\CAD\Civil\Plans\200\_020\_05950\_TC\_TCP\_13B.dgn  
JWiles AT 890K8AV4



24-JUN-2022 11:27  
 P:\50152556\CAD\CIVIL\Plans\200\_021\5950\_TC\_TCP\_13C.dgn  
 J.Wiles AT 890K8AV4



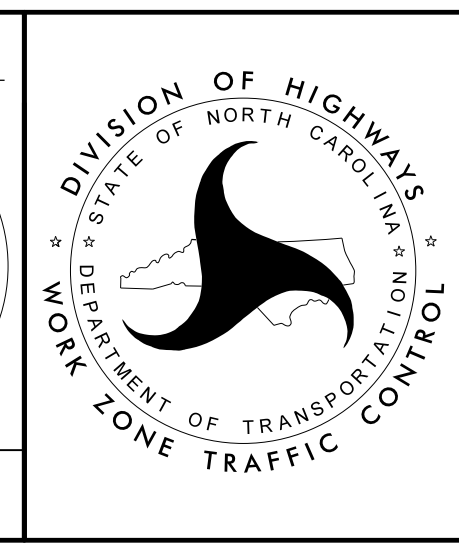
2610 WYCLIFF ROAD  
 SUITE 410  
 RALEIGH, NC 27607  
 PHONE: 919.881.9939  
 NC COA No. F-0929

APPROVED: *[Signature]*  
DocuSigned by:  
 81380649C064E4

DATE: 6/29/2022

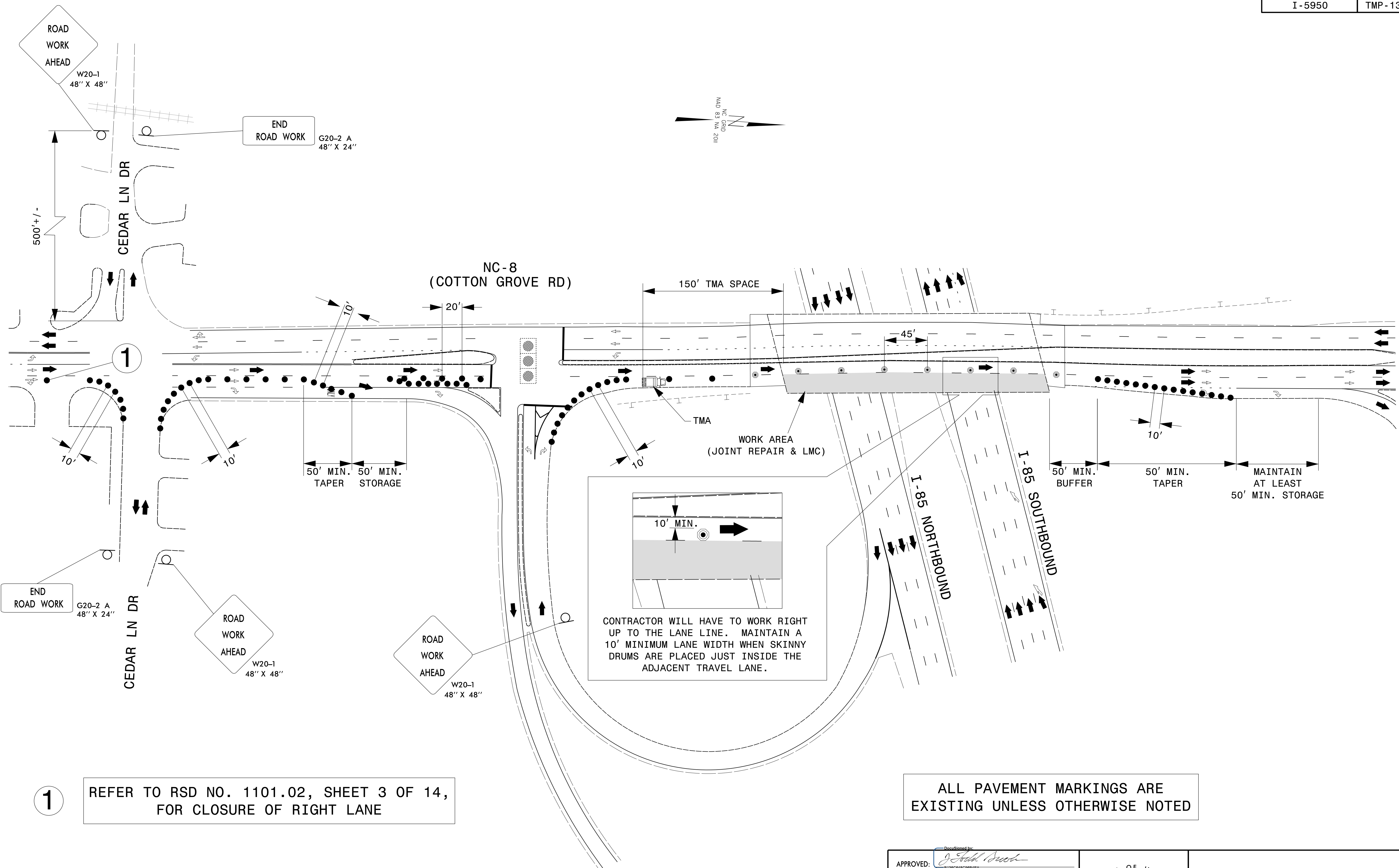
SEAL

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



# NC 8 SOUTHBOUND LEFT LANE CLOSURE





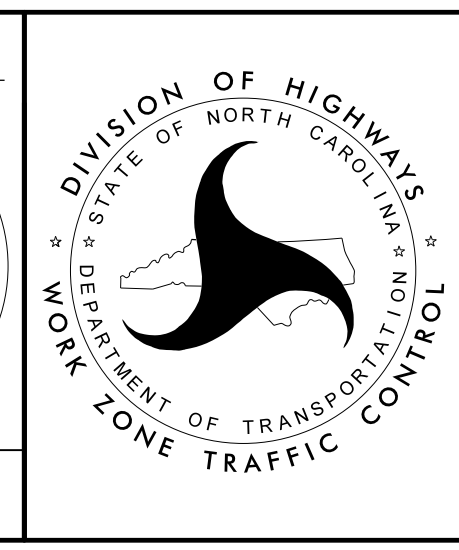
1 REFER TO RSD NO. 1101.02, SHEET 3 OF 14, FOR CLOSURE OF RIGHT LANE

ALL PAVEMENT MARKINGS ARE EXISTING UNLESS OTHERWISE NOTED

24-JUN-2022 11:27  
 P:\50152556\CAD\CIVIL\Plans\200\_022\_15950\_TC\_TCP\_13D.dgn  
 Jwiles AT 890K8AV4

**Dewberry**  
 2610 WYCLIFF ROAD  
 SUITE 410  
 RALEIGH, NC 27607  
 PHONE: 919.881.9939  
 NC COA No. F-0929

APPROVED: *[Signature]*  
 DATE: 6/29/2022  
 SEAL  
 NORTH CAROLINA PROFESSIONAL ENGINEER  
 SEAL 17586  
 J. TODD BROOKS

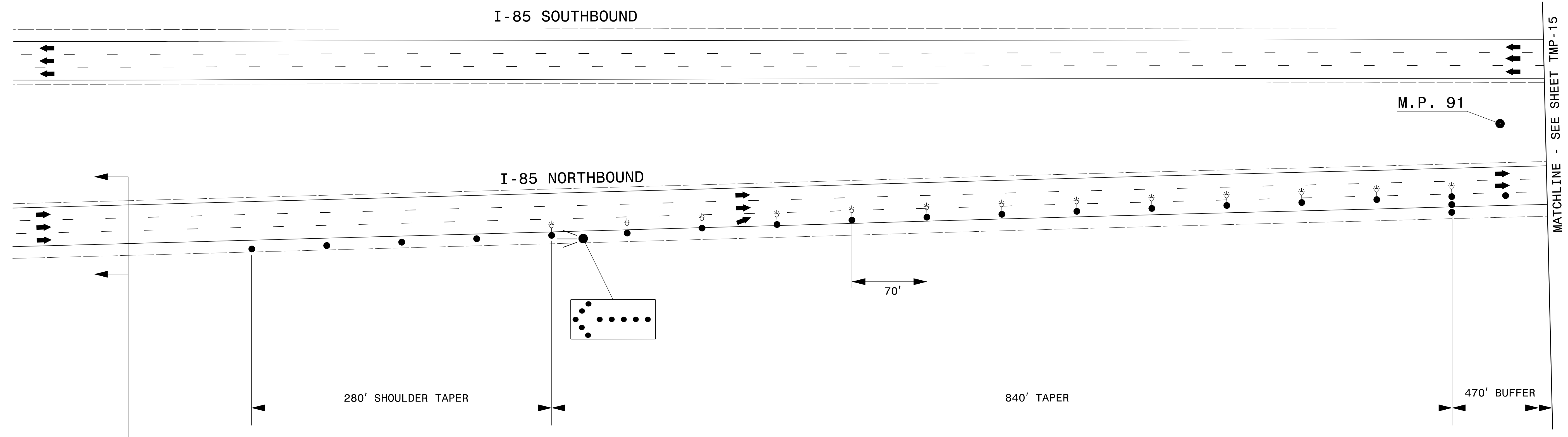


**NC 8  
 NORTHBOUND  
 RIGHT LANE  
 CLOSURE**

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED



ALL PAVEMENT MARKINGS ARE EXISTING UNLESS OTHERWISE NOTED



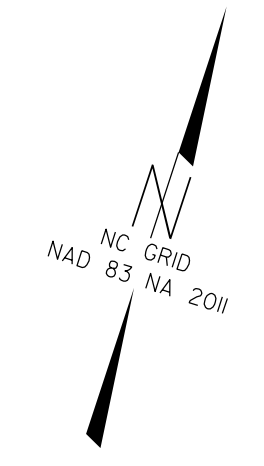
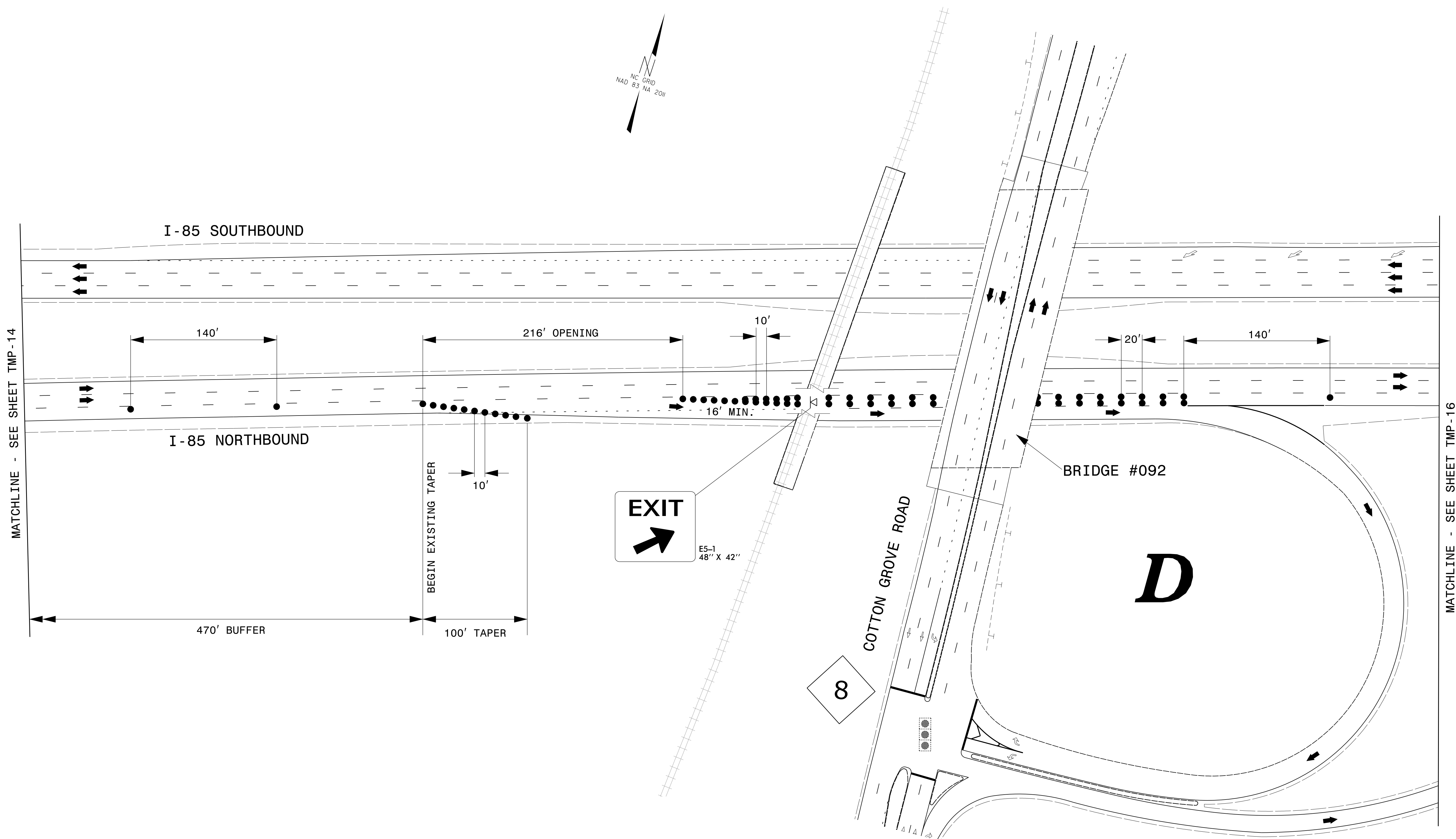
SEE SHEET TMP-1B FOR LANE CLOSURE SIGNING AND DEVICES

22-JUL-2022 07:23  
 P:\50152556\CAD\Civil\Plans\200\_023\_15950\_TC\_TCP\_14.dgn  
 jwiles AT 890K8AV4

**Dewberry**  
 2610 WYCLIFF ROAD  
 SUITE 410  
 RALEIGH, NC 27607  
 PHONE: 919.881.9939  
 NC COA No. F-0929

<p>DocuSigned by:            APPROVED: B136C648C96B4EA          DATE: 7/22/2022          SEAL  </p>		<p><b>FULL DEPTH SHOULDER WITH SHOULDER BERM GUTTER</b>  <b>NB M.P. 91.52 TO 91.69</b></p>
<p><b>DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED</b></p>		





ALL PAVEMENT MARKINGS ARE EXISTING UNLESS OTHERWISE NOTED



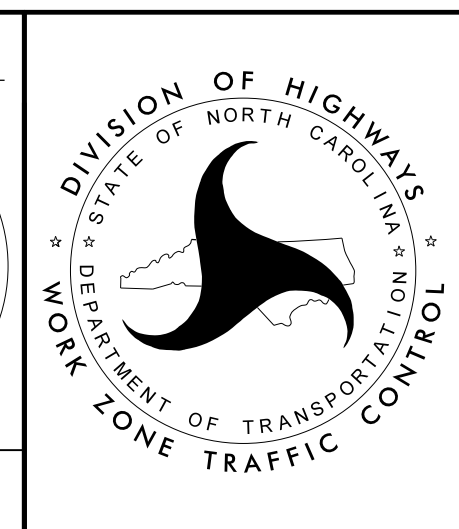
2610 WYCLIFF ROAD  
SUITE 410  
RALEIGH, NC 27607  
PHONE: 919.881.9939  
NC COA No. F-0929

APPROVED: *[Signature]*  
DATE: 6/29/2022

SEAL

**NORTH CAROLINA PROFESSIONAL ENGINEER**  
SEAL 17586  
J. TODD BROOKS

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

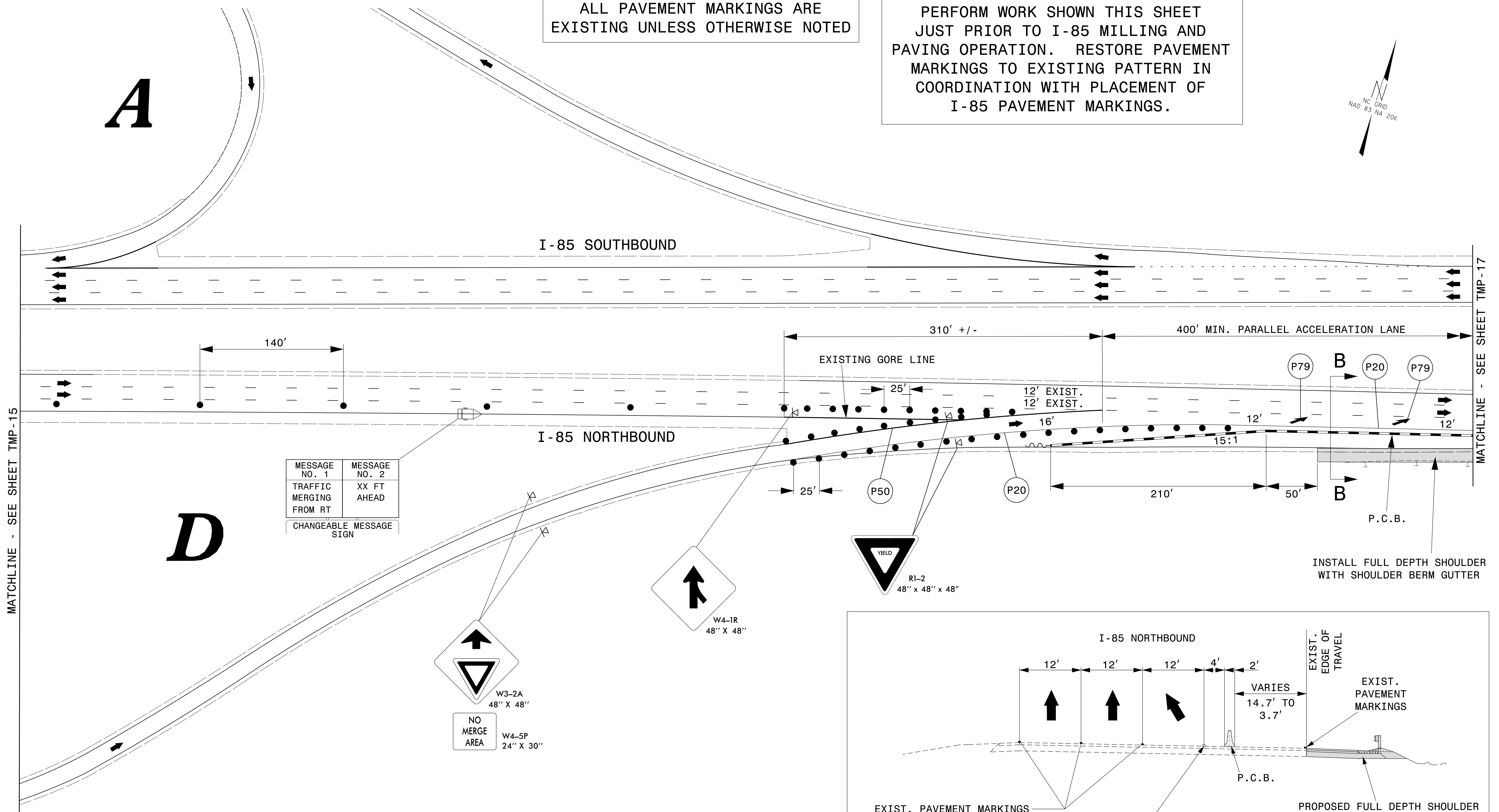
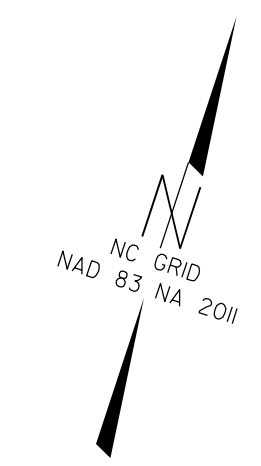


**FULL DEPTH SHOULDER WITH SHOULDER BERM GUTTER**  
NB M.P. 91.52 TO 91.69

29-JUN-2022 08:21  
P:\50152536\CAD\Civil\Plans\200\_024\_15950\_TC\_TCP\_15.dgn  
Jwiles AT 890K8AV4

ALL PAVEMENT MARKINGS ARE EXISTING UNLESS OTHERWISE NOTED

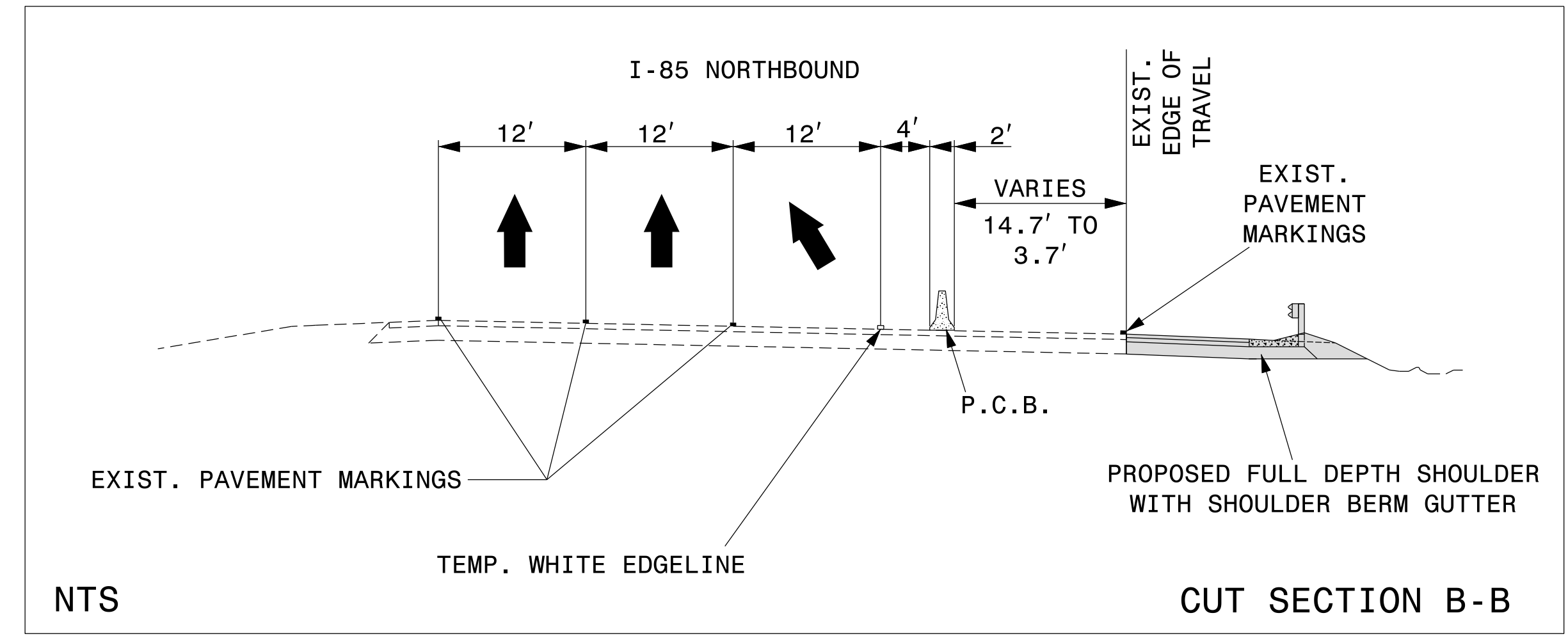
PERFORM WORK SHOWN THIS SHEET JUST PRIOR TO I-85 MILLING AND PAVING OPERATION. RESTORE PAVEMENT MARKINGS TO EXISTING PATTERN IN COORDINATION WITH PLACEMENT OF I-85 PAVEMENT MARKINGS.



MATCHLINE - SEE SHEET TMP-15

MATCHLINE - SEE SHEET TMP-17

TEMPORARY PAVEMENT MARKING		
P20	WHITE EDGELINE	PAINT (6")
P50	WHITE GORELINE	PAINT (12")
PAVEMENT MARKING SYMBOLS AND CHARACTERS		
P79	PAINT MERGE ARROW	PAINT



29-JUN-2022 08:21  
 P:\50152556\CAD\Civil\Plans\200\_025\_15950\_TC\_TCP\_16.dgn  
 Jwiles AT 890K8AV4



2610 WYCLIFF ROAD  
 SUITE 410  
 RALEIGH, NC 27607  
 PHONE: 919.881.9939  
 NC COA No. F-0929

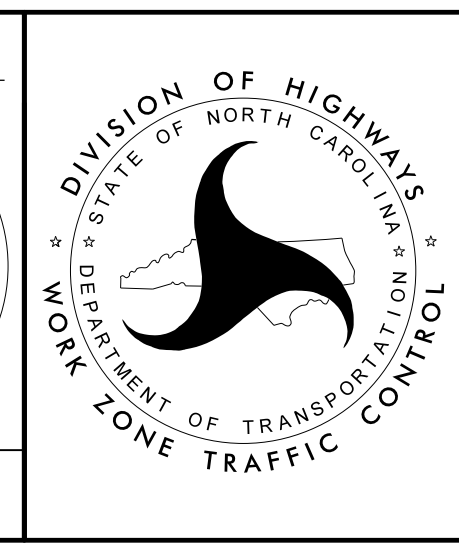
APPROVED: *[Signature]*

DATE: 6/29/2022

SEAL

NORTH CAROLINA PROFESSIONAL ENGINEER SEAL 17586 J. TODD BROOKS

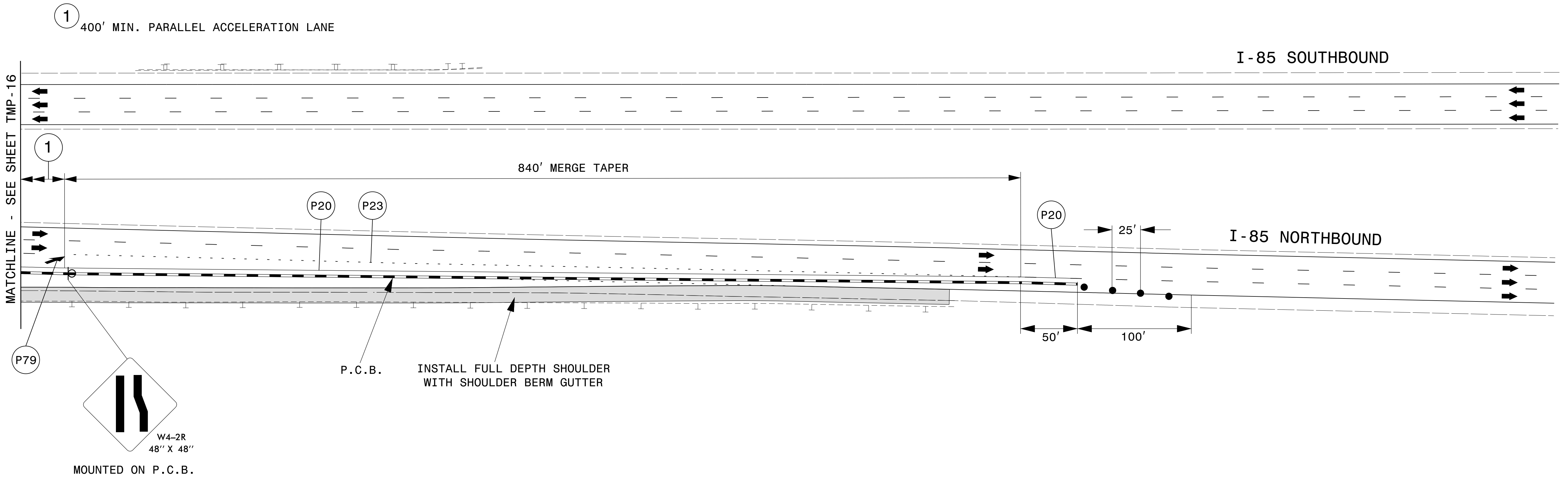
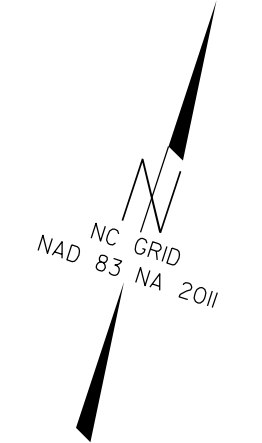
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED



**FULL DEPTH SHOULDER WITH SHOULDER BERM GUTTER**  
 NB M.P. 91.52 TO 91.69



PERFORM WORK SHOWN THIS SHEET JUST PRIOR TO I-85 MILLING AND PAVING OPERATION. RESTORE PAVEMENT MARKINGS TO EXISTING PATTERN IN COORDINATION WITH PLACEMENT OF I-85 PAVEMENT MARKINGS.



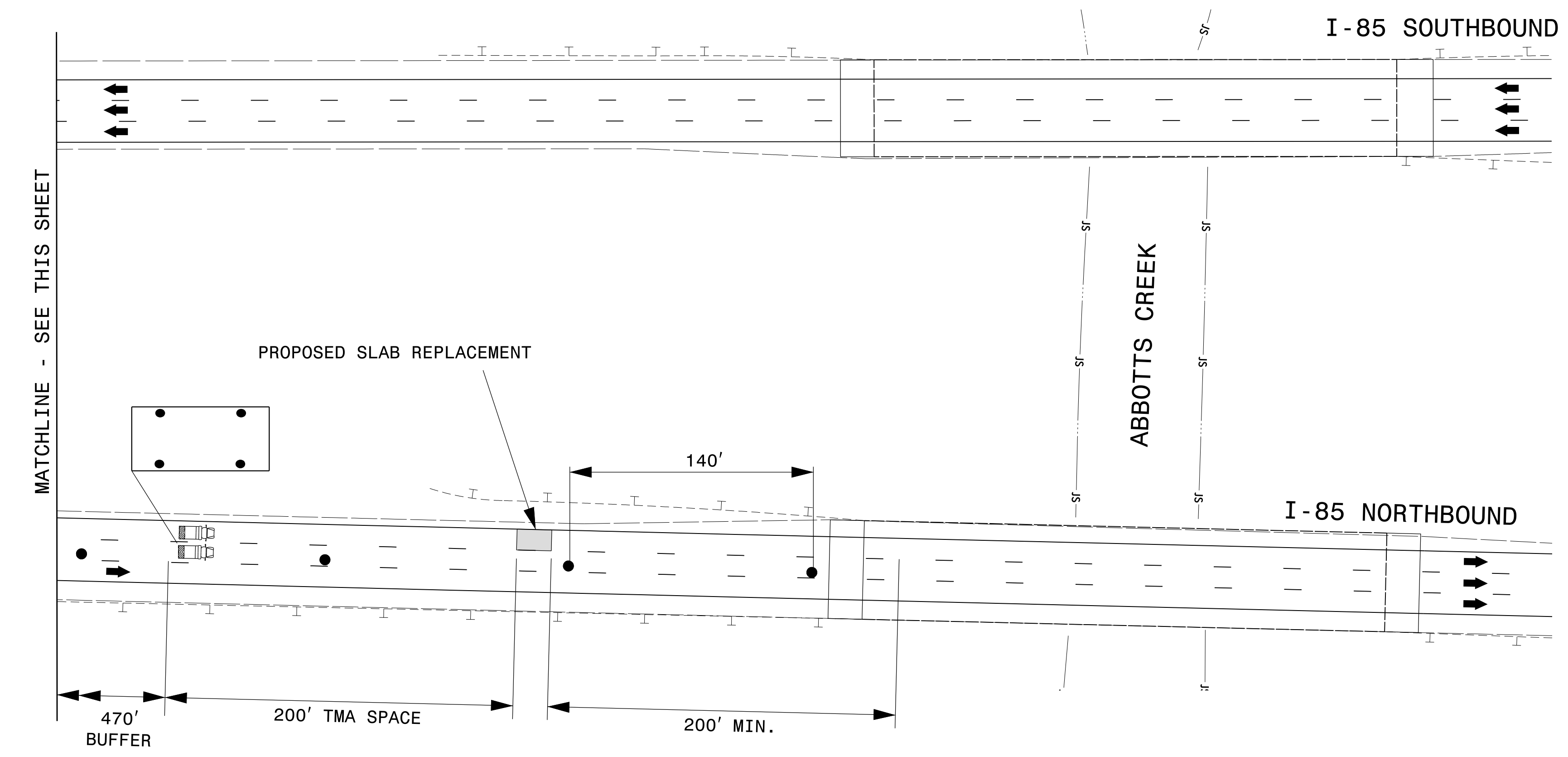
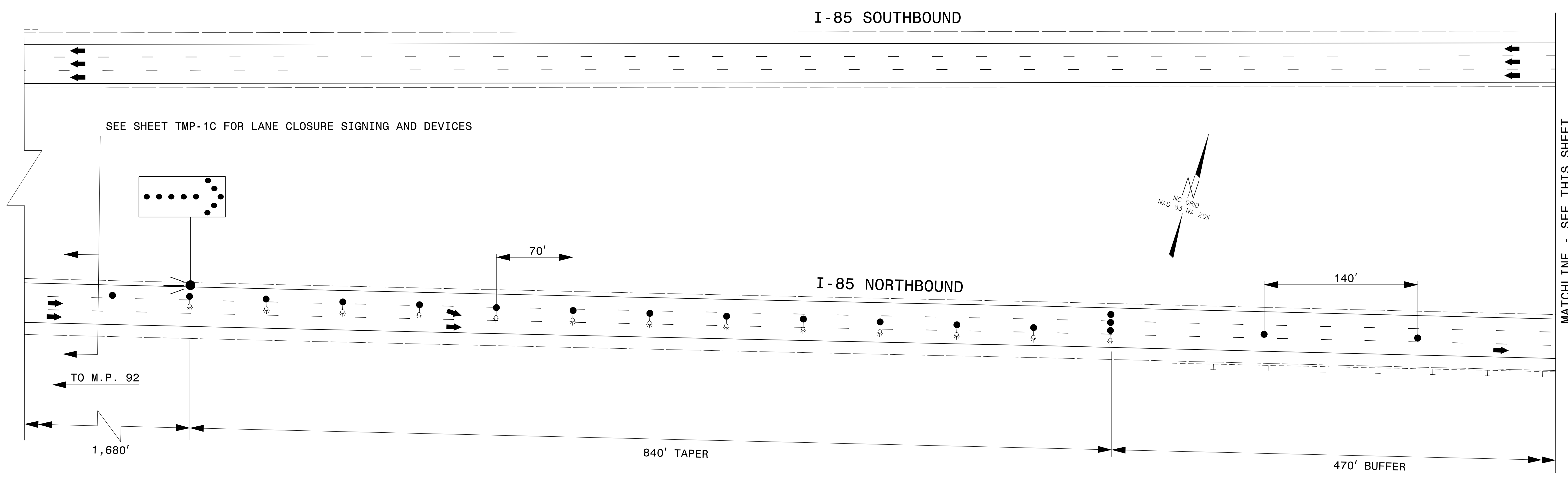
TEMPORARY PAVEMENT MARKING		
Ⓟ P20	WHITE EDGELINE	PAINT (6")
Ⓟ P23	3 FT. - 9 FT./SP WHITE MINISKIP	PAINT (6")
PAVEMENT MARKING SYMBOLS AND CHARACTERS		
Ⓟ P79	PAINT MERGE ARROW	PAINT

ALL PAVEMENT MARKINGS ARE EXISTING UNLESS OTHERWISE NOTED

29-JUN-2022 08:21  
 P:\50152556\CAD\Civil\Plans\200\_026\_15950\_TC\_TCP\_17.dgn  
 Jwiles AT 890K8AV4

**Dewberry**  
 2610 WYCLIFF ROAD  
 SUITE 410  
 RALEIGH, NC 27607  
 PHONE: 919.881.9939  
 NC COA No. F-0929

APPROVED: DATE: 6/29/2022 SEAL 		FULL DEPTH SHOULDER WITH SHOULDER BERM GUTTER NB M.P. 91.52 TO 91.69
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED		



ALL PAVEMENT MARKINGS ARE EXISTING UNLESS OTHERWISE NOTED

22-JUL-2022 07:23  
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 Jwiles AT 890K8AV4

**Dewberry**  
 2610 WYCLIFF ROAD  
 SUITE 410  
 RALEIGH, NC 27607  
 PHONE: 919.881.9939  
 NC COA No. F-0929

DocuSigned by:  
*J. Todd Brooks*

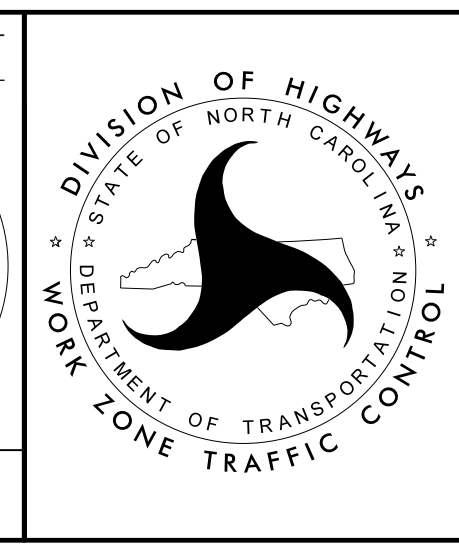
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DATE: 7/22/2022

SEAL

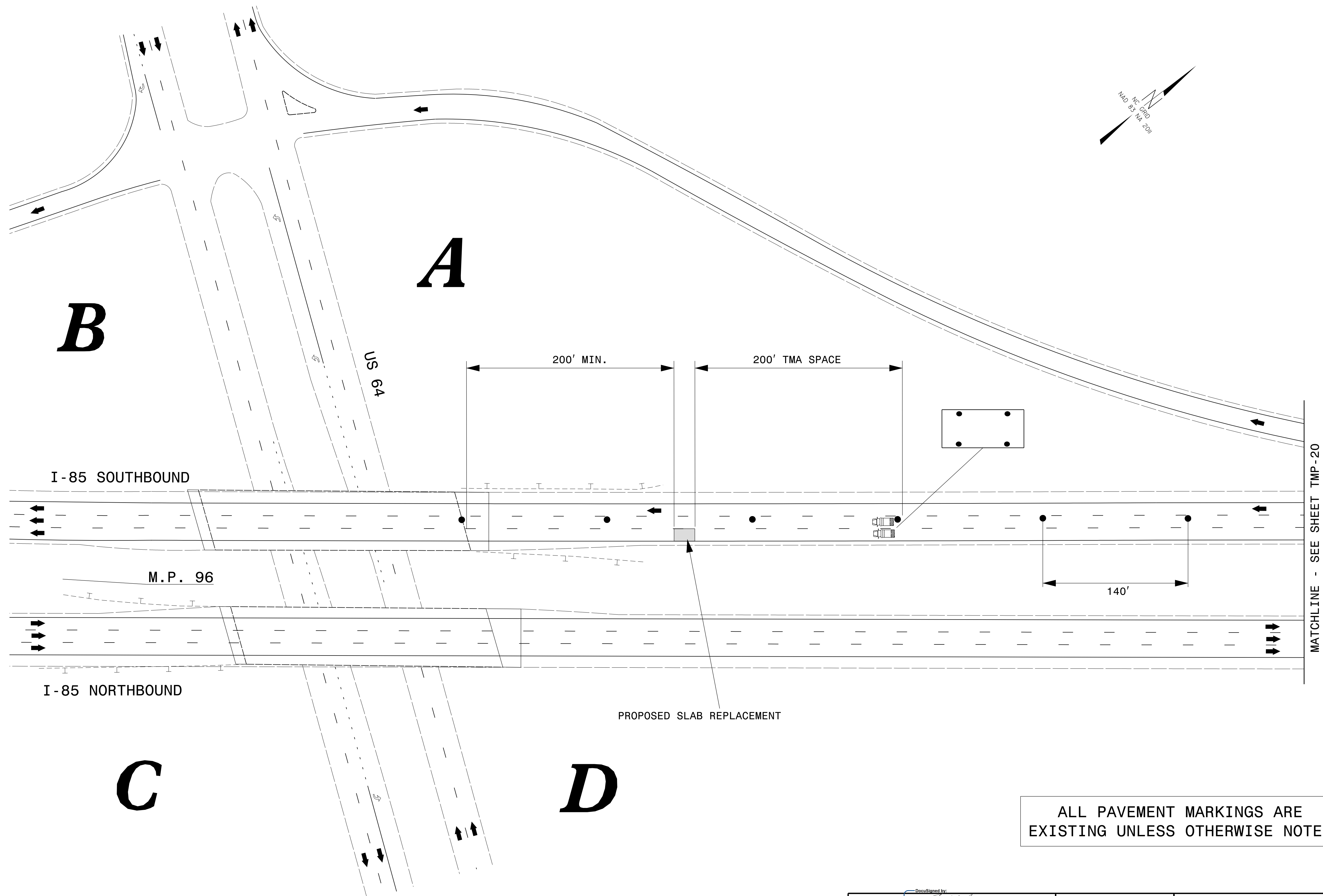
**NORTH CAROLINA PROFESSIONAL ENGINEER**  
 SEAL 17586  
 J. TODD BROOKS

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



**OVERNIGHT LANE CLOSURES FOR SLAB REPLACEMENT NEAR M.P. 92.54**





MATCHLINE - SEE SHEET TMP-20

ALL PAVEMENT MARKINGS ARE EXISTING UNLESS OTHERWISE NOTED

24-JUN-2022 11:27  
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JWiles AT 890K8AV4

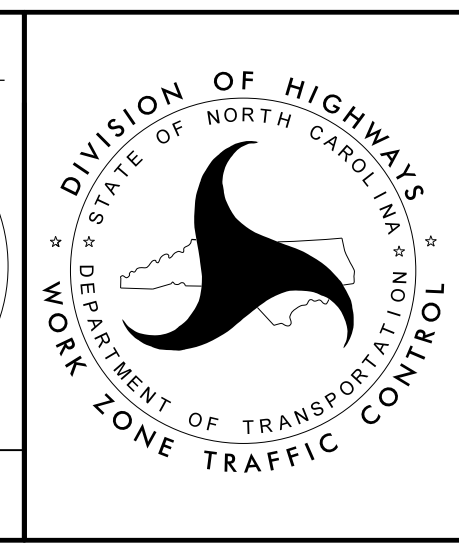


2610 WYCLIFF ROAD  
SUITE 410  
RALEIGH, NC 27607  
PHONE: 919.881.9939  
NC COA No. F-0929

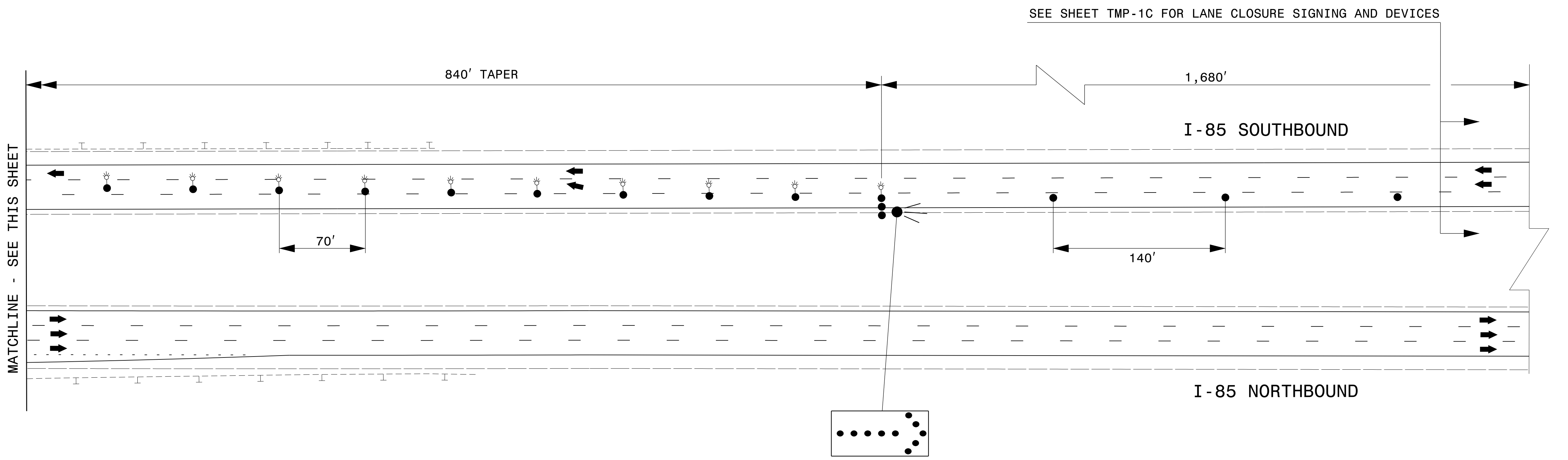
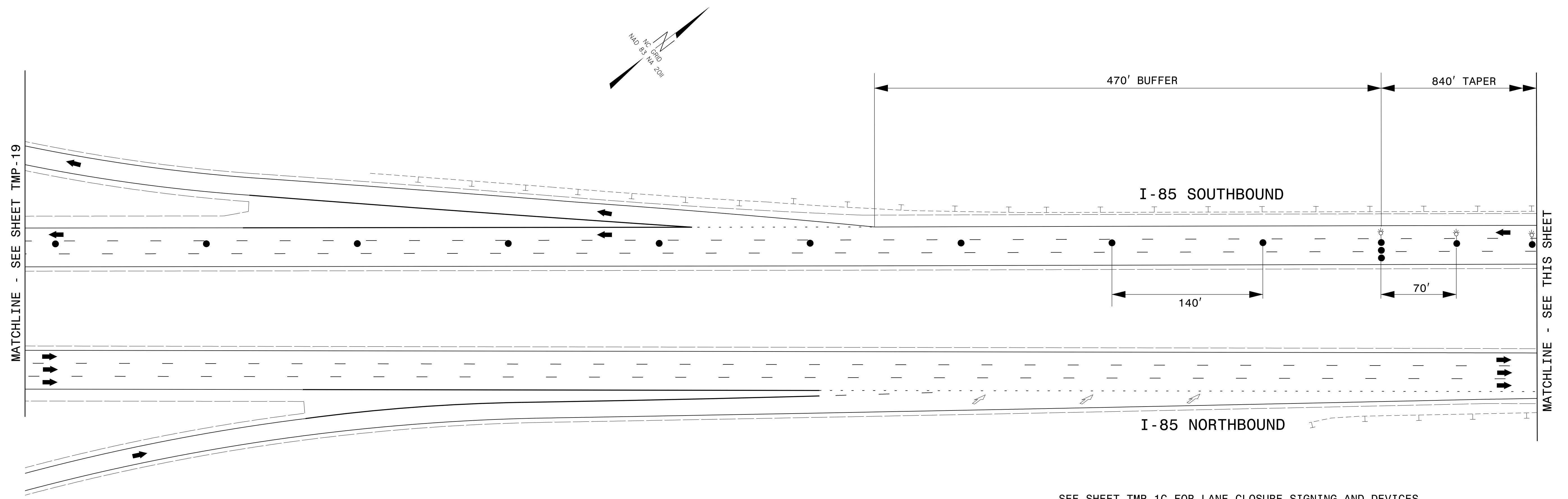
APPROVED: *[Signature]*  
DATE: 6/29/2022

SEAL

DOCUMENT NOT CONSIDERED FINAL  
UNLESS ALL SIGNATURES COMPLETED



**OVERNIGHT LANE CLOSURES FOR SLAB REPLACEMENT NEAR M.P. 96.11**



ALL PAVEMENT MARKINGS ARE EXISTING UNLESS OTHERWISE NOTED



2610 WYCLIFF ROAD  
SUITE 410  
RALEIGH, NC 27607  
PHONE: 919.881.9939  
NC COA No. F-0929

DocuSigned by:  
*J. Todd Brooks*

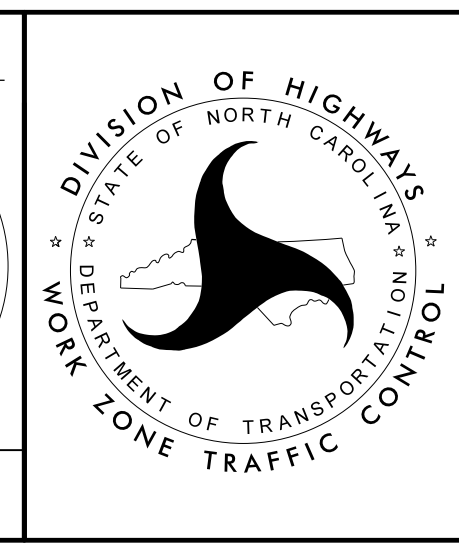
APPROVED: B136C646C96B4EA...

DATE: 7/22/2022

SEAL

**NORTH CAROLINA PROFESSIONAL ENGINEER**  
SEAL 17586  
J. TODD BROOKS

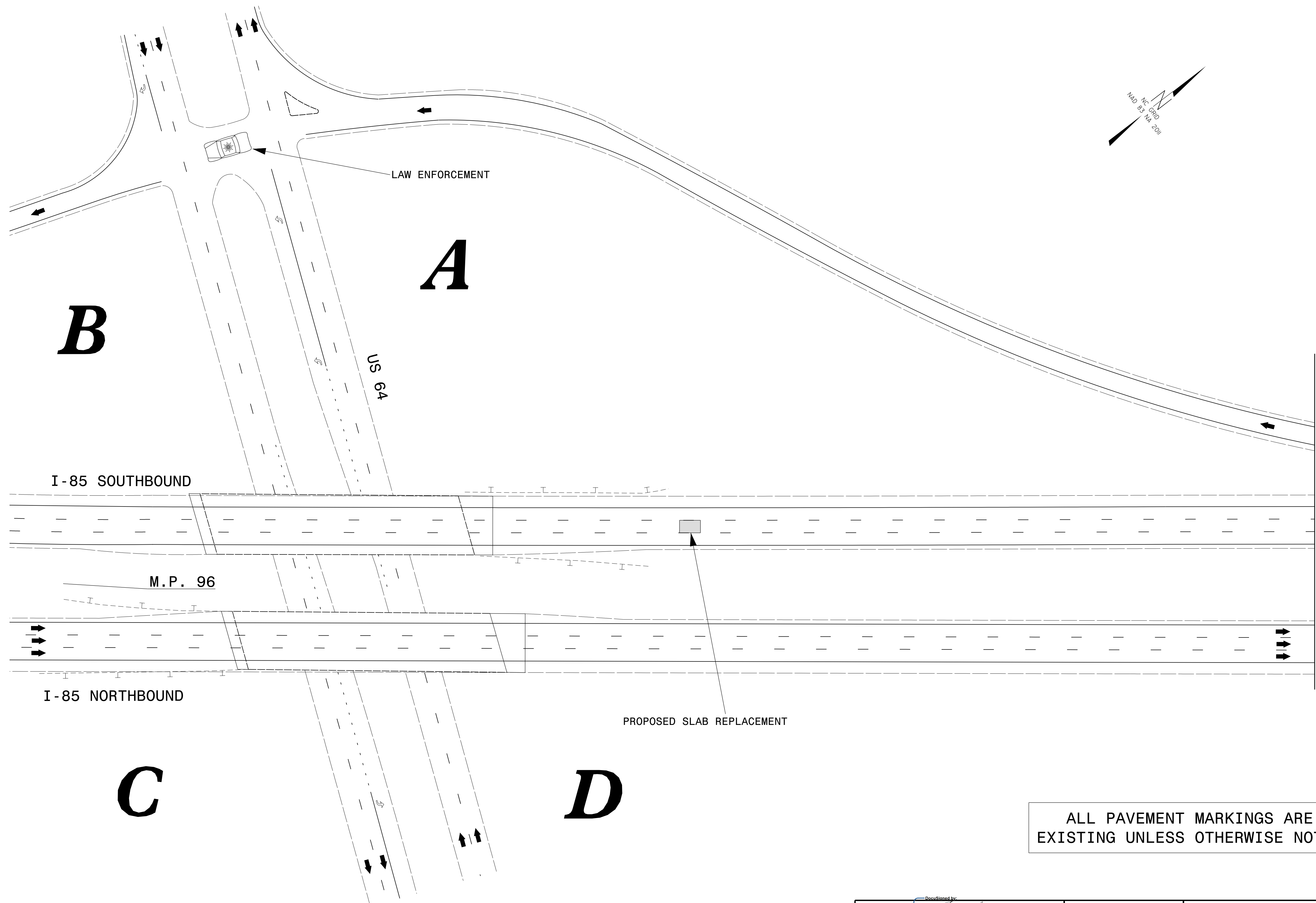
**DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED**



**OVERNIGHT LANE CLOSURES FOR SLAB REPLACEMENT NEAR M.P. 96.11**

22-JUL-2022 07:23  
P:\50152556\CAD\Civil\Plans\200\_029\_15950\_TC\_TCP\_20.dgn  
JWiles AT 890K8AV4





ALL PAVEMENT MARKINGS ARE EXISTING UNLESS OTHERWISE NOTED

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 Jwiles AT 890K8AV4

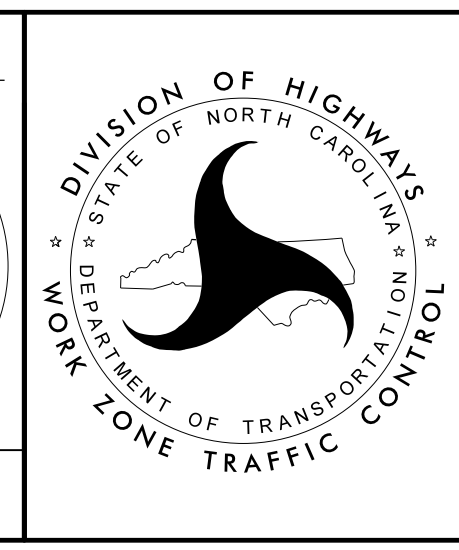


2610 WYCLIFF ROAD  
 SUITE 410  
 RALEIGH, NC 27607  
 PHONE: 919.881.9939  
 NC COA No. F-0929

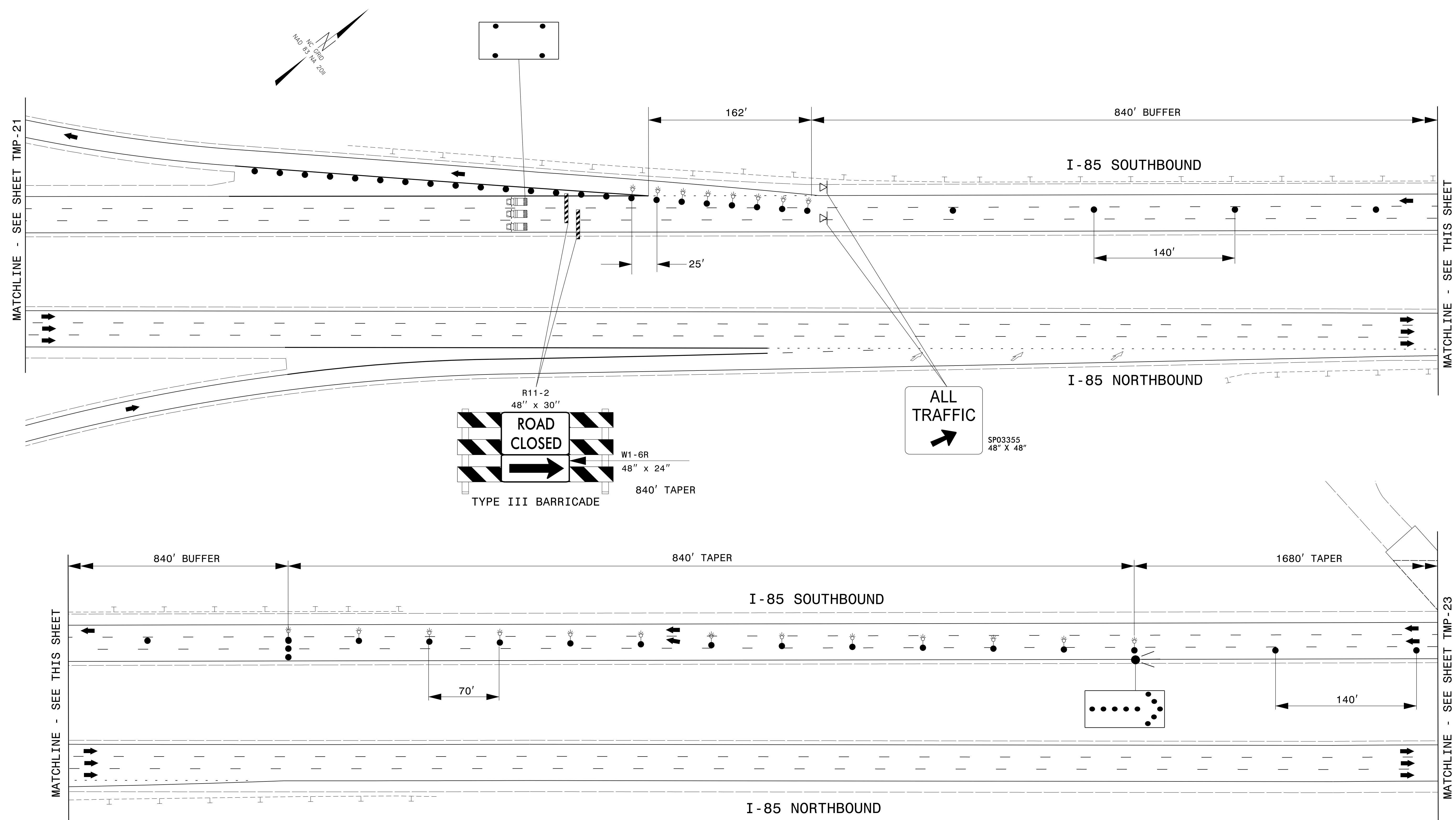
APPROVED: *[Signature]*  
 DATE: 6/29/2022

SEAL

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



**OVERNIGHT LANE CLOSURES FOR SLAB REPLACEMENT NEAR M.P. 96.11**



MATCHLINE - SEE SHEET TMP-21

MATCHLINE - SEE THIS SHEET

MATCHLINE - SEE THIS SHEET

MATCHLINE - SEE SHEET TMP-23

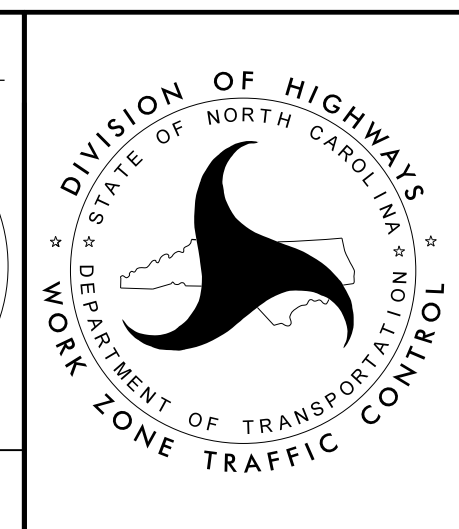
ALL PAVEMENT MARKINGS ARE EXISTING UNLESS OTHERWISE NOTED

2610 WYCLIFF ROAD  
SUITE 410  
RALEIGH, NC 27607  
PHONE: 919.881.9939  
NC COA No. F-0929

APPROVED: *[Signature]*  
DATE: 6/29/2022

SEAL

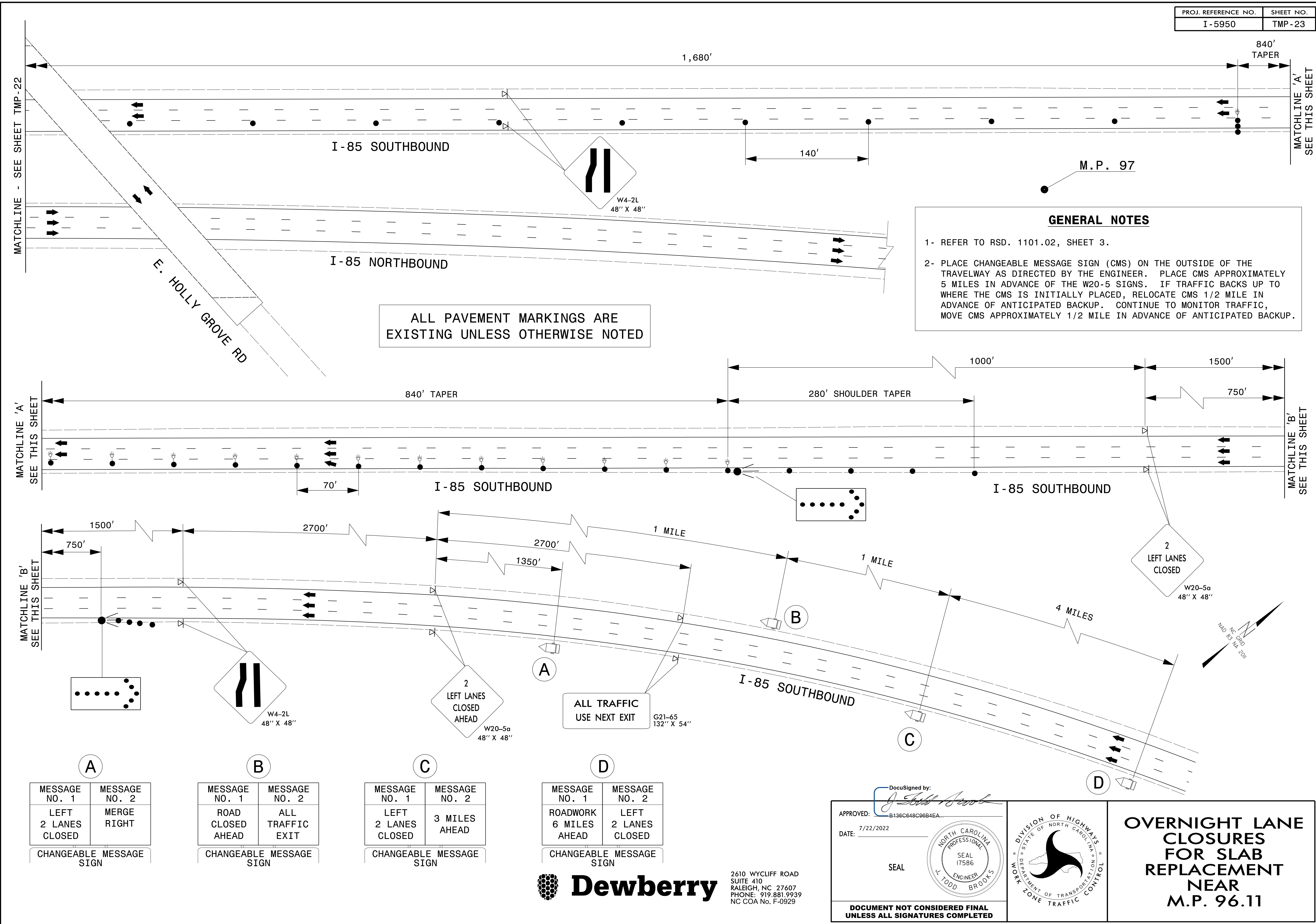
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED



**OVERNIGHT LANE CLOSURES FOR SLAB REPLACEMENT NEAR M.P. 96.11**

24-JUN-2022 11:27  
 P:\50152556\CAD\CIVIL\Plans\200\_031\_5950\_TC\_TCP\_22.dgn  
 Jwiles AT 890K8AV4





**GENERAL NOTES**

1- REFER TO RSD. 1101.02, SHEET 3.

2- PLACE CHANGEABLE MESSAGE SIGN (CMS) ON THE OUTSIDE OF THE TRAVELWAY AS DIRECTED BY THE ENGINEER. PLACE CMS APPROXIMATELY 5 MILES IN ADVANCE OF THE W20-5 SIGNS. IF TRAFFIC BACKS UP TO WHERE THE CMS IS INITIALLY PLACED, RELOCATE CMS 1/2 MILE IN ADVANCE OF ANTICIPATED BACKUP. CONTINUE TO MONITOR TRAFFIC, MOVE CMS APPROXIMATELY 1/2 MILE IN ADVANCE OF ANTICIPATED BACKUP.

ALL PAVEMENT MARKINGS ARE EXISTING UNLESS OTHERWISE NOTED

MATCHLINE 'A'  
SEE THIS SHEET

MATCHLINE 'B'  
SEE THIS SHEET

MATCHLINE 'B'  
SEE THIS SHEET

**A**

MESSAGE NO. 1	MESSAGE NO. 2
LEFT 2 LANES CLOSED	MERGE RIGHT

CHANGEABLE MESSAGE SIGN

**B**

MESSAGE NO. 1	MESSAGE NO. 2
ROAD CLOSED AHEAD	ALL TRAFFIC EXIT

CHANGEABLE MESSAGE SIGN

**C**

MESSAGE NO. 1	MESSAGE NO. 2
LEFT 2 LANES CLOSED	3 MILES AHEAD

CHANGEABLE MESSAGE SIGN

**D**

MESSAGE NO. 1	MESSAGE NO. 2
ROADWORK 6 MILES AHEAD	LEFT 2 LANES CLOSED

CHANGEABLE MESSAGE SIGN



2610 WYCLIFF ROAD  
SUITE 410  
RALEIGH, NC 27607  
PHONE: 919.881.9939  
NC COA No. F-0929

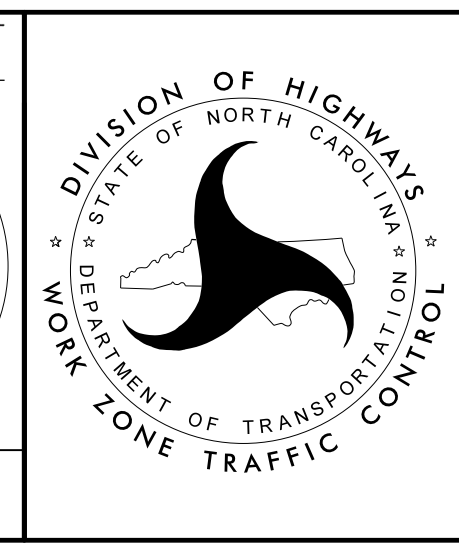
DocuSigned by:  
*J. Todd Brooks*

APPROVED: B136C648C96B4EA  
DATE: 7/22/2022

SEAL

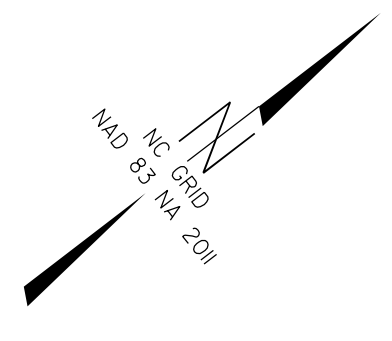
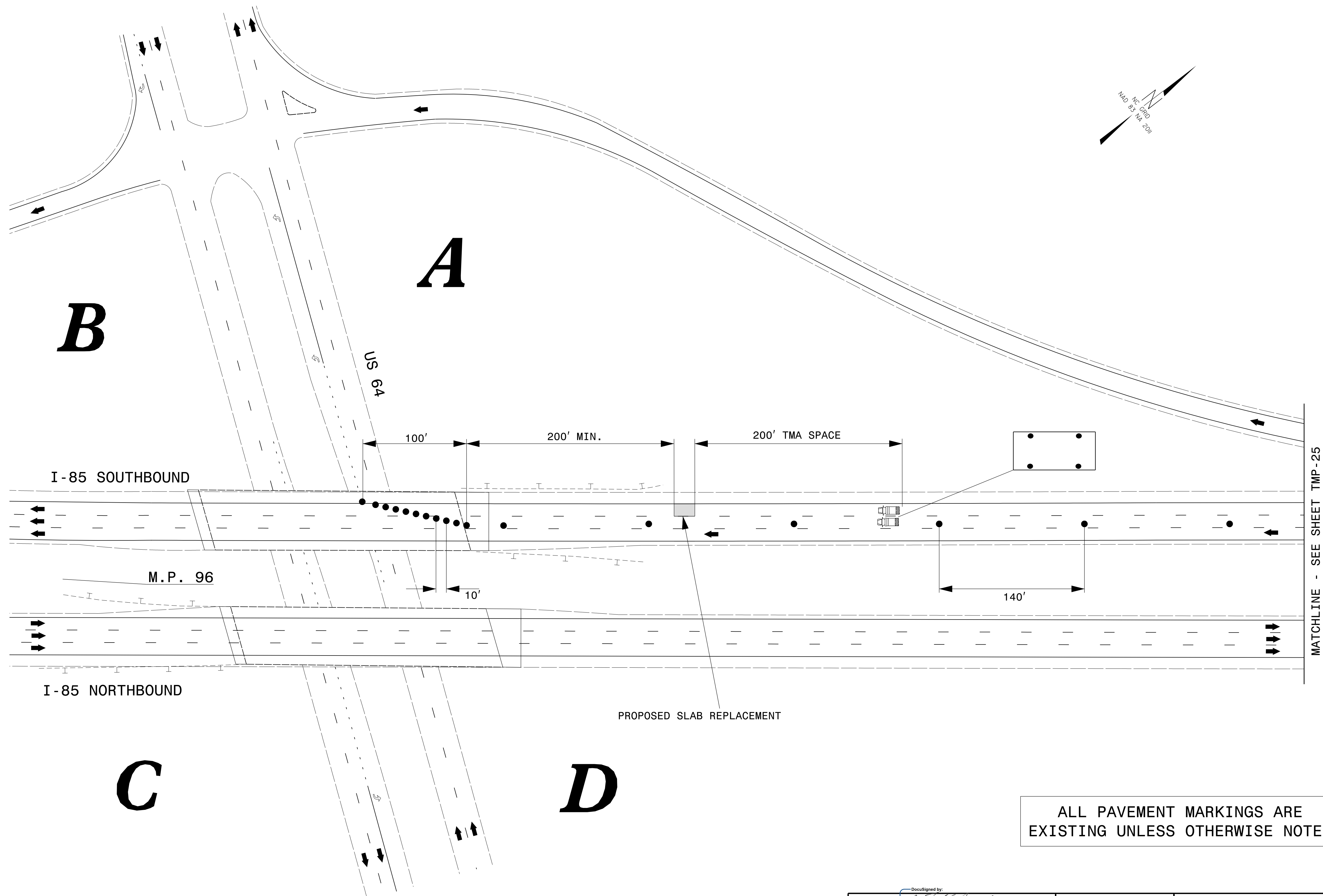
**SEAL**

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED



**OVERNIGHT LANE CLOSURES FOR SLAB REPLACEMENT NEAR M.P. 96.11**

22-JUL-2022 07:23  
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I:\wiles



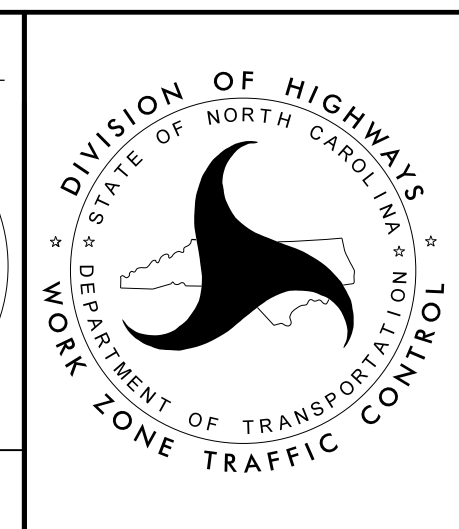
MATCHLINE - SEE SHEET TMP-25

ALL PAVEMENT MARKINGS ARE EXISTING UNLESS OTHERWISE NOTED

24-JUN-2022 11:27  
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JWiles AT 890K8AV4

**Dewberry**  
2610 WYCLIFF ROAD  
SUITE 410  
RALEIGH, NC 27607  
PHONE: 919.881.9939  
NC COA No. F-0929

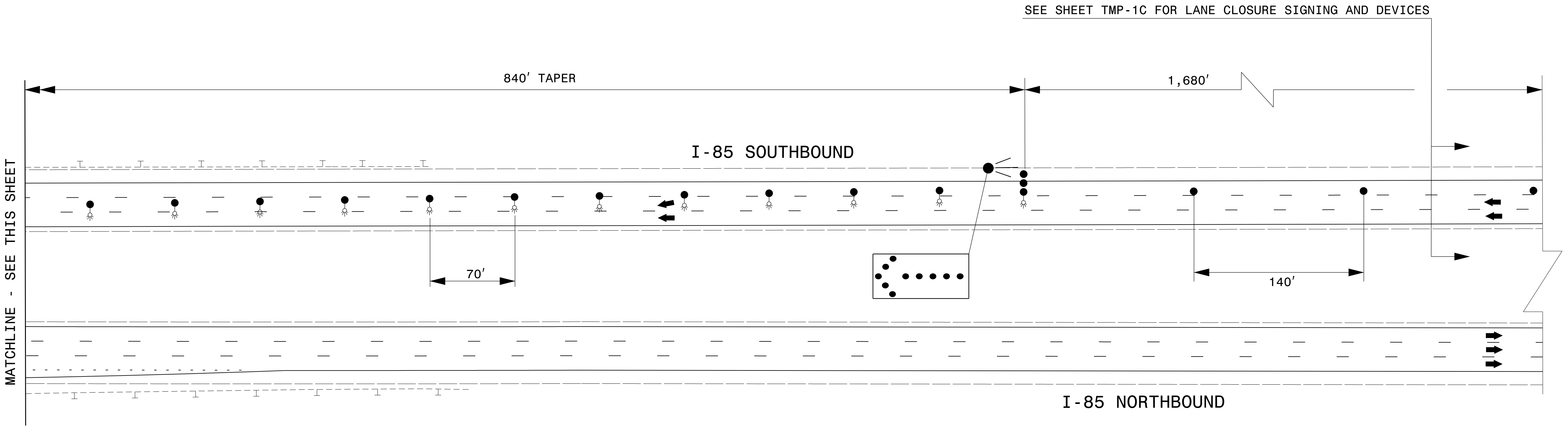
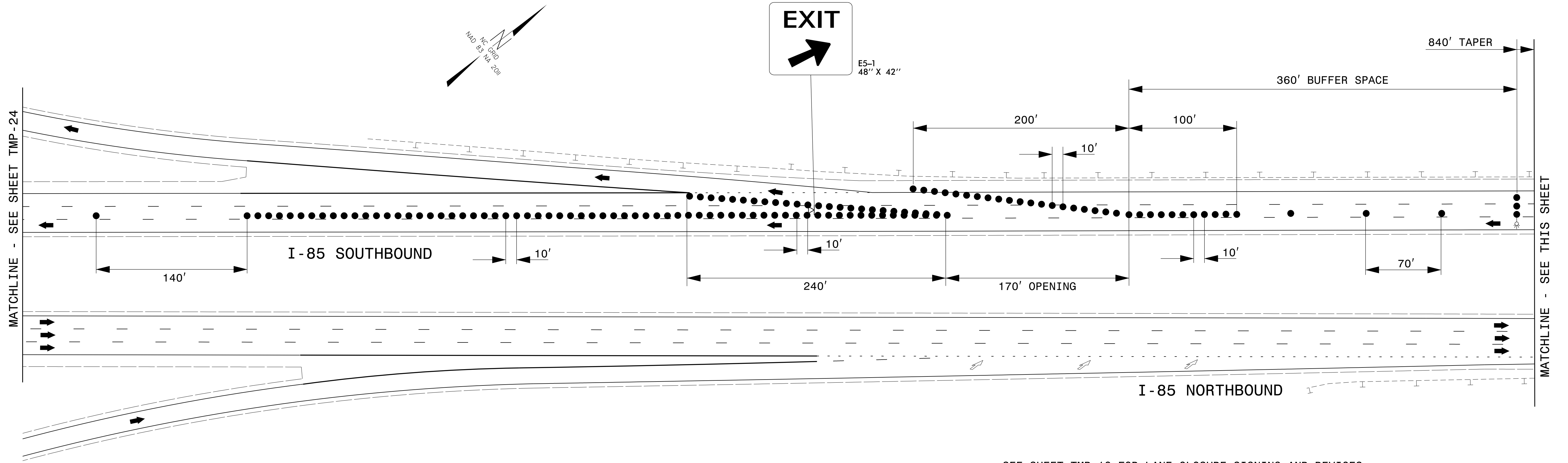
APPROVED: *[Signature]*  
DATE: 6/29/2022  
SEAL  
NORTH CAROLINA PROFESSIONAL ENGINEER  
J. TODD BROOKS  
SEAL 17586



**OVERNIGHT LANE CLOSURES FOR SLAB REPLACEMENT NEAR M.P. 96.11**

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED





ALL PAVEMENT MARKINGS ARE EXISTING UNLESS OTHERWISE NOTED



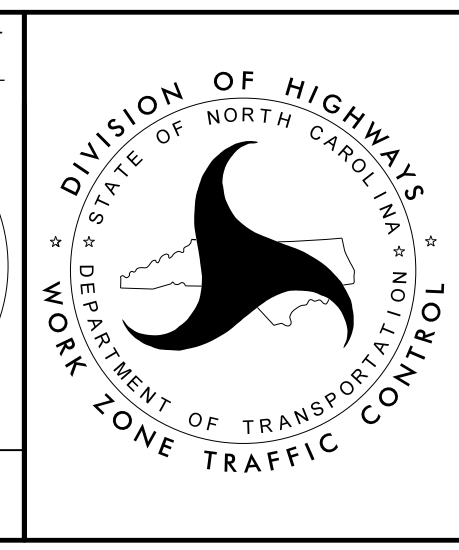
2610 WYCLIFF ROAD  
SUITE 410  
RALEIGH, NC 27607  
PHONE: 919.881.9939  
NC COA No. F-0929

DocuSigned by:  
*J. Todd Brooks*

APPROVED: B138C648C98B4EA...  
DATE: 7/22/2022

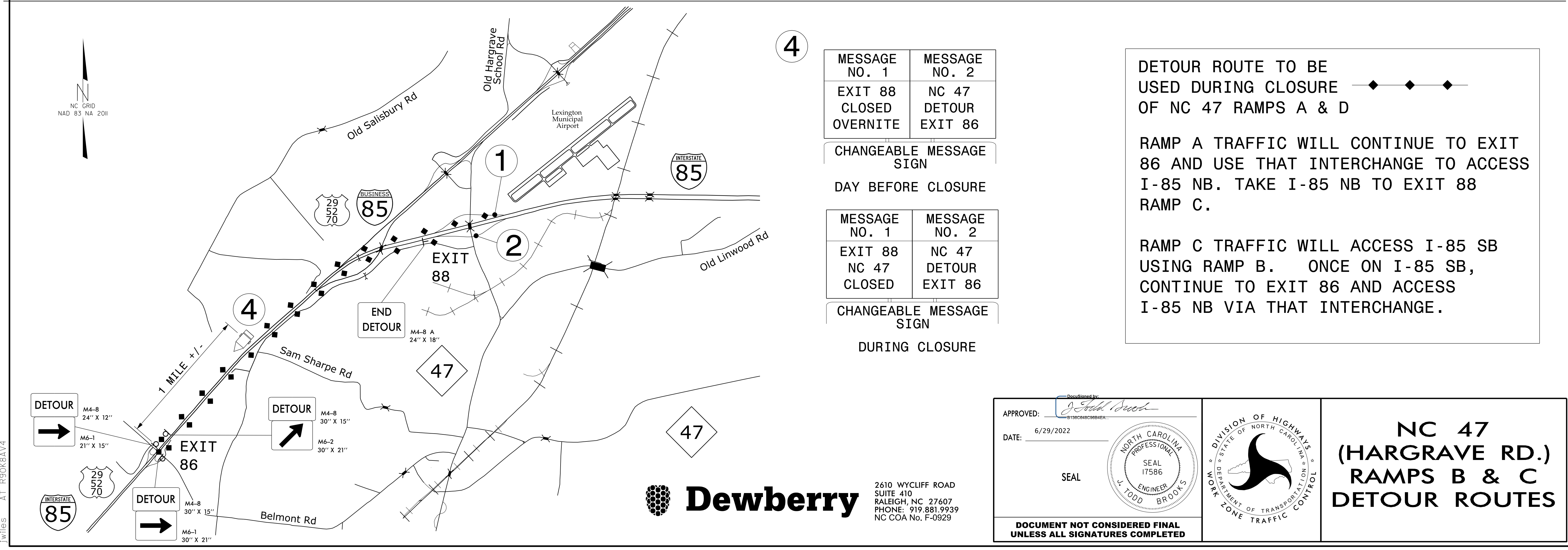
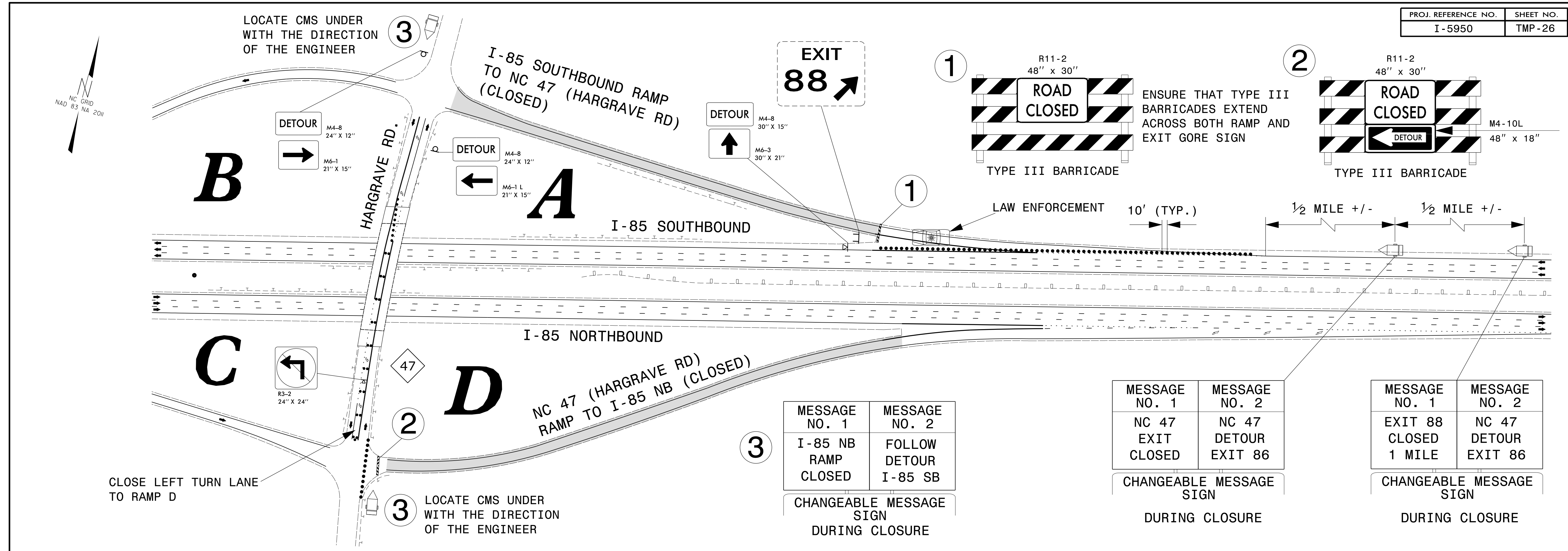
SEAL

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



**OVERNIGHT LANE CLOSURES FOR SLAB REPLACEMENT NEAR M.P. 96.11**

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Jwiles AT 890K8AV4



<p>APPROVED: [Signature]</p> <p>DATE: 6/29/2022</p> <p>SEAL</p> <p>DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED</p>			<p><b>NC 47 (HARGRAVE RD.) RAMPS B &amp; C DETOUR ROUTES</b></p>
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MESSAGE NO. 1	MESSAGE NO. 2
EXIT 88 CLOSED 1 MILE	NC 47 DETOUR EXIT 87

MESSAGE NO. 1	MESSAGE NO. 2
NC 47 EXIT CLOSED	NC 47 DETOUR EXIT 87

MESSAGE NO. 1	MESSAGE NO. 2
I-85 SB RAMP CLOSED	FOLLOW DETOUR

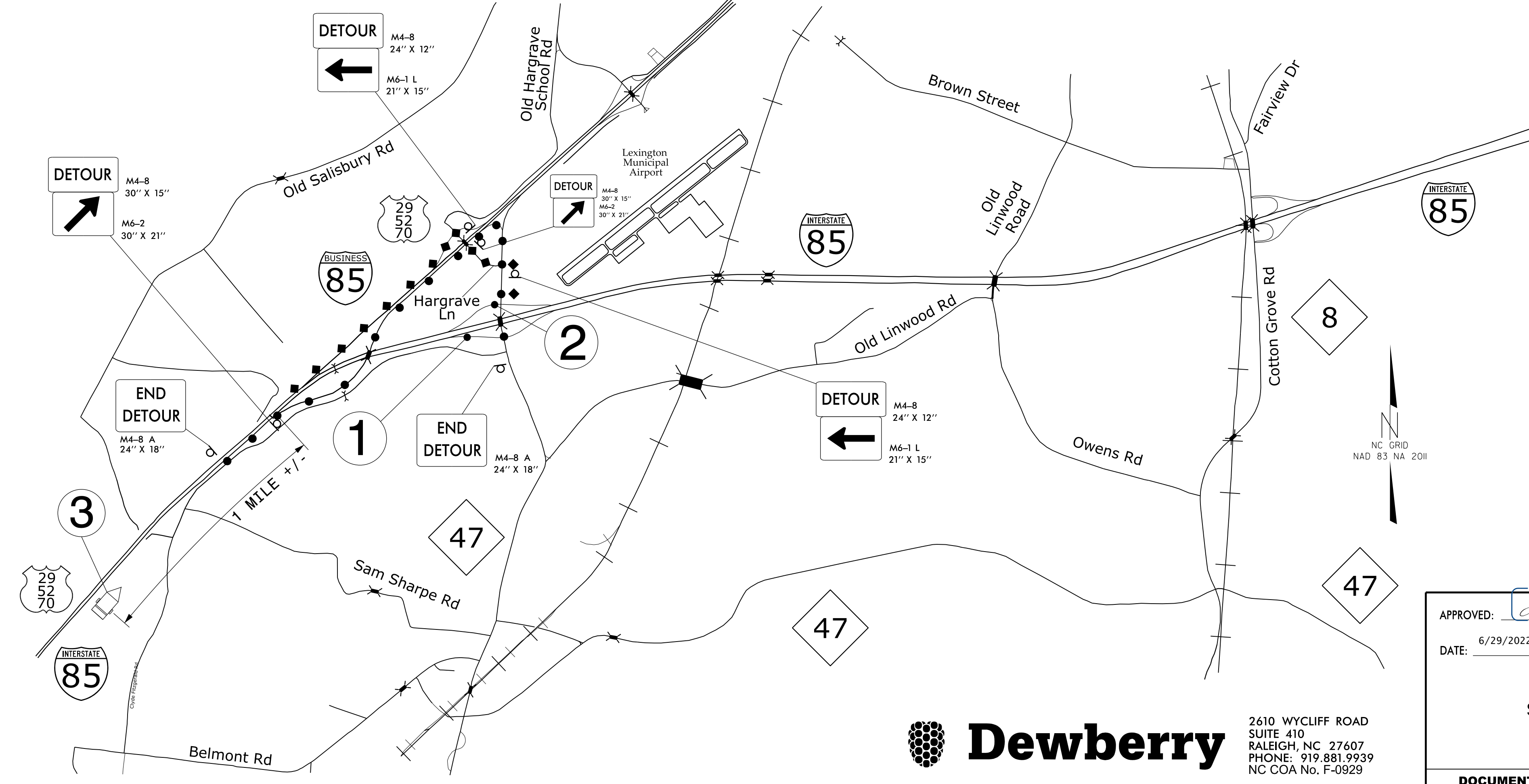
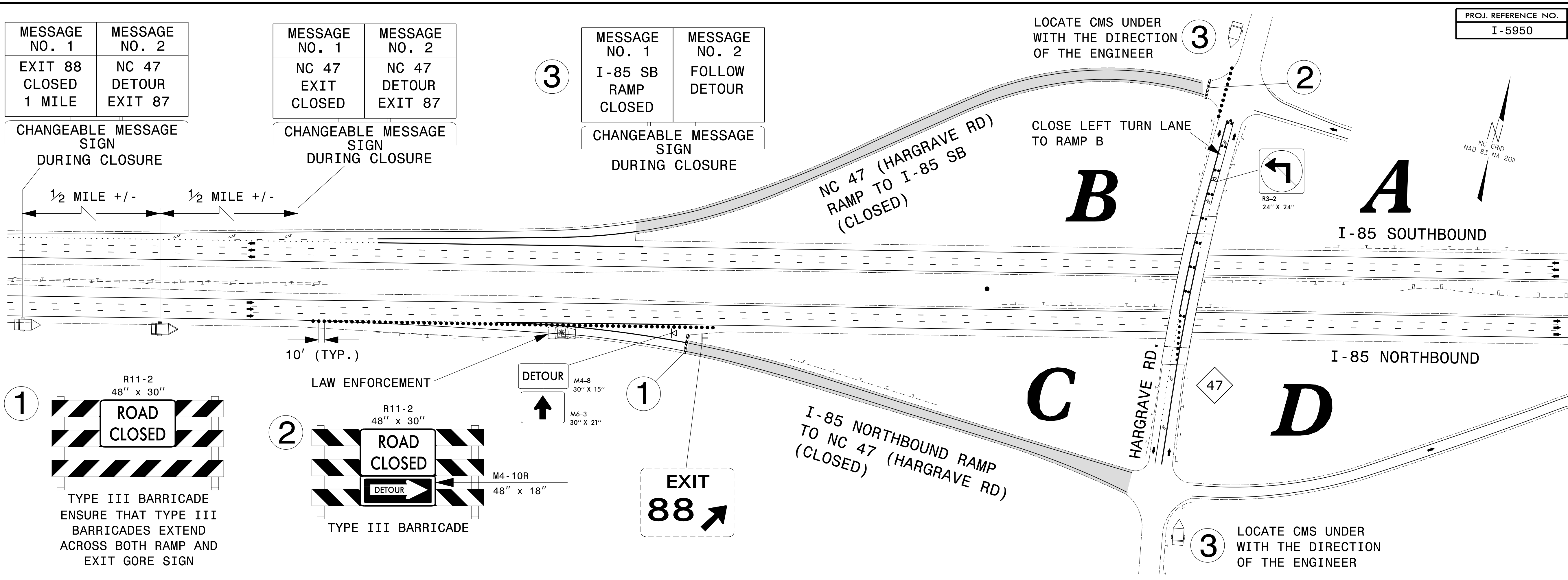
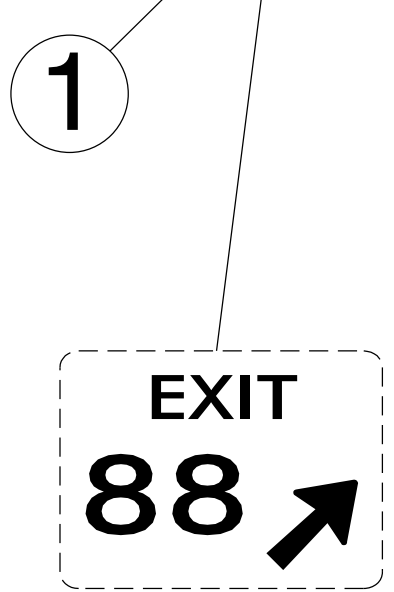
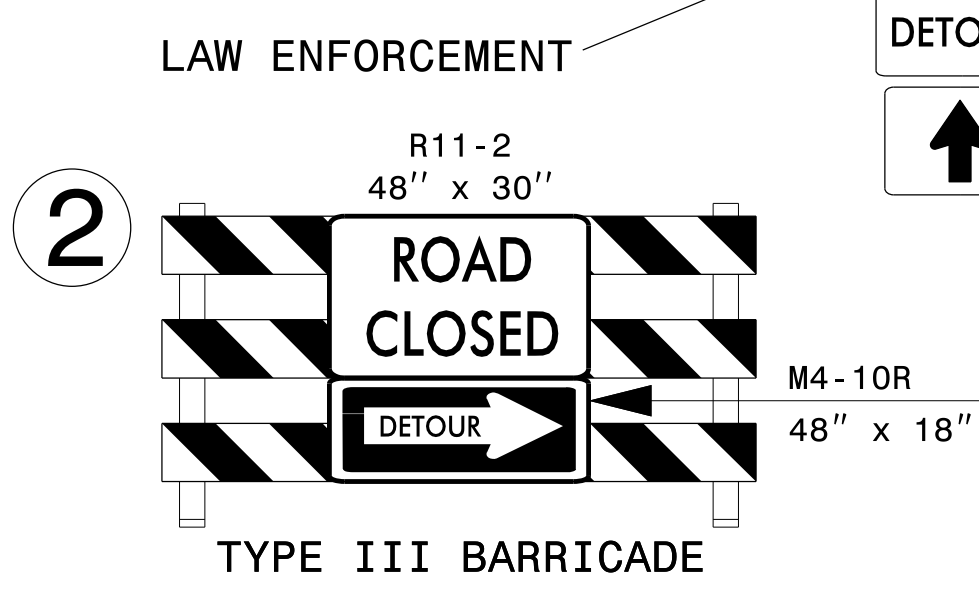
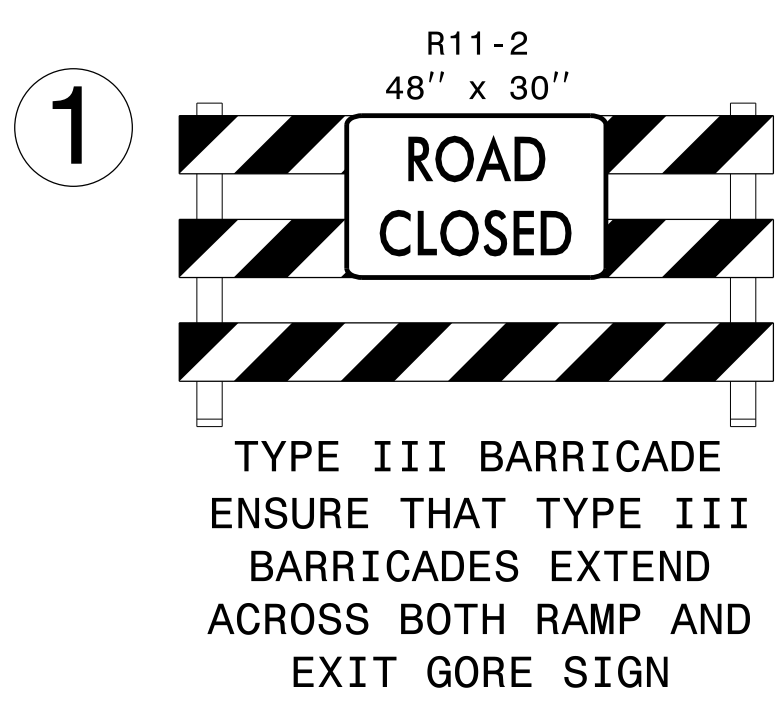
LOCATE CMS UNDER WITH THE DIRECTION OF THE ENGINEER

CHANGEABLE MESSAGE SIGN DURING CLOSURE

CHANGEABLE MESSAGE SIGN DURING CLOSURE

CHANGEABLE MESSAGE SIGN DURING CLOSURE

1/2 MILE +/- 1/2 MILE +/-



USE IN CONJUNCTION WITH OTHER DMSs SHOWN ON THIS SHEET

MESSAGE NO. 1	MESSAGE NO. 2	MESSAGE NO. 1	MESSAGE NO. 2
EXIT 88 CLOSED OVERNITE	NC 47 DETOUR EXIT 87	EXIT 88 NC 47 CLOSED	NC 47 DETOUR EXIT 87

CHANGEABLE MESSAGE SIGN DAY BEFORE CLOSURE      CHANGEABLE MESSAGE SIGN DURING CLOSURE

DETOUR ROUTE TO BE USED DURING CLOSURE OF NC 47 RAMP B **1.4 MILES**

DETOUR ROUTE TO BE USED DURING CLOSURE OF NC 47 RAMP C **1.8 MILES**

24-JUN-2022 11:27 P:\50152556\CAD\CIVIL\Plans\200\_036\_15950\_TC.TCP\_27.dgn

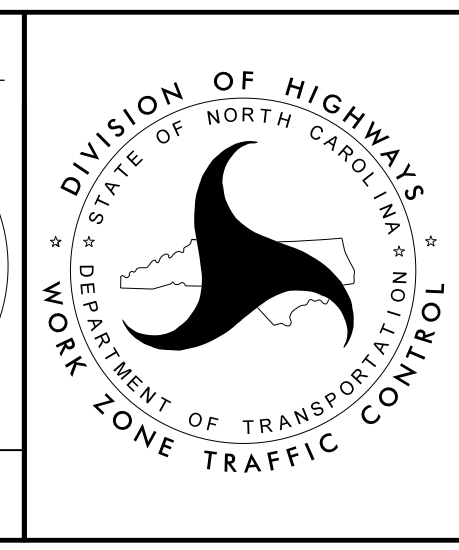


2610 WYCLIFF ROAD  
SUITE 410  
RALEIGH, NC 27607  
PHONE: 919.881.9939  
NC COA No. F-0929

APPROVED: *[Signature]*  
DATE: 6/29/2022

SEAL

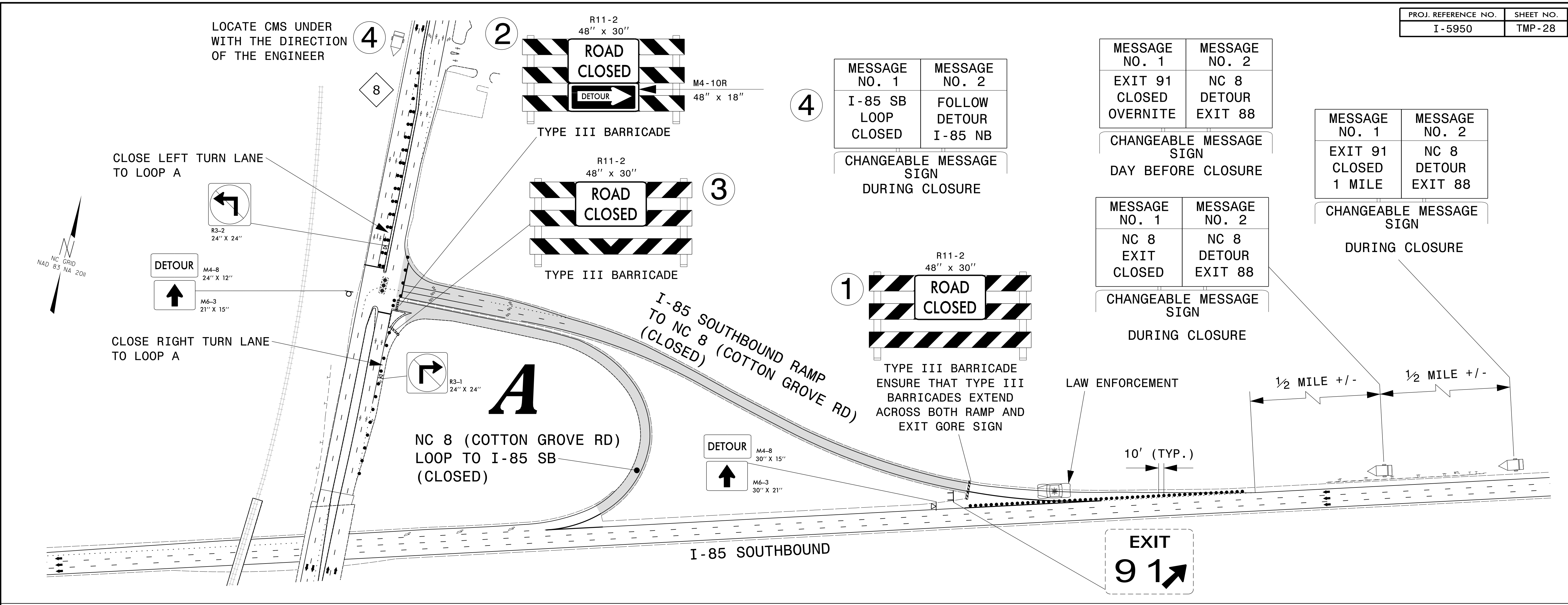
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED



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

**NC 47 (HARGRAVE RD.) RAMP B & C DETOUR ROUTES**





MESSAGE NO. 1	MESSAGE NO. 2
I-85 SB LOOP CLOSED	FOLLOW DETOUR I-85 NB

CHANGEABLE MESSAGE SIGN DURING CLOSURE

MESSAGE NO. 1	MESSAGE NO. 2
EXIT 91 CLOSED OVERNITE	NC 8 DETOUR EXIT 88

CHANGEABLE MESSAGE SIGN DAY BEFORE CLOSURE

MESSAGE NO. 1	MESSAGE NO. 2
EXIT 91 CLOSED 1 MILE	NC 8 DETOUR EXIT 88

CHANGEABLE MESSAGE SIGN DURING CLOSURE

MESSAGE NO. 1	MESSAGE NO. 2
NC 8 EXIT CLOSED	NC 8 DETOUR EXIT 88

CHANGEABLE MESSAGE SIGN DURING CLOSURE

MESSAGE NO. 1	MESSAGE NO. 2	MESSAGE NO. 1	MESSAGE NO. 2
EXIT 91 CLOSED OVERNITE	NC 8 DETOUR EXIT 88	NC 8 TRAFFIC	DETOUR VIA EXIT 88

CHANGEABLE MESSAGE SIGN DAY BEFORE CLOSURE

CHANGEABLE MESSAGE SIGN DURING CLOSURE

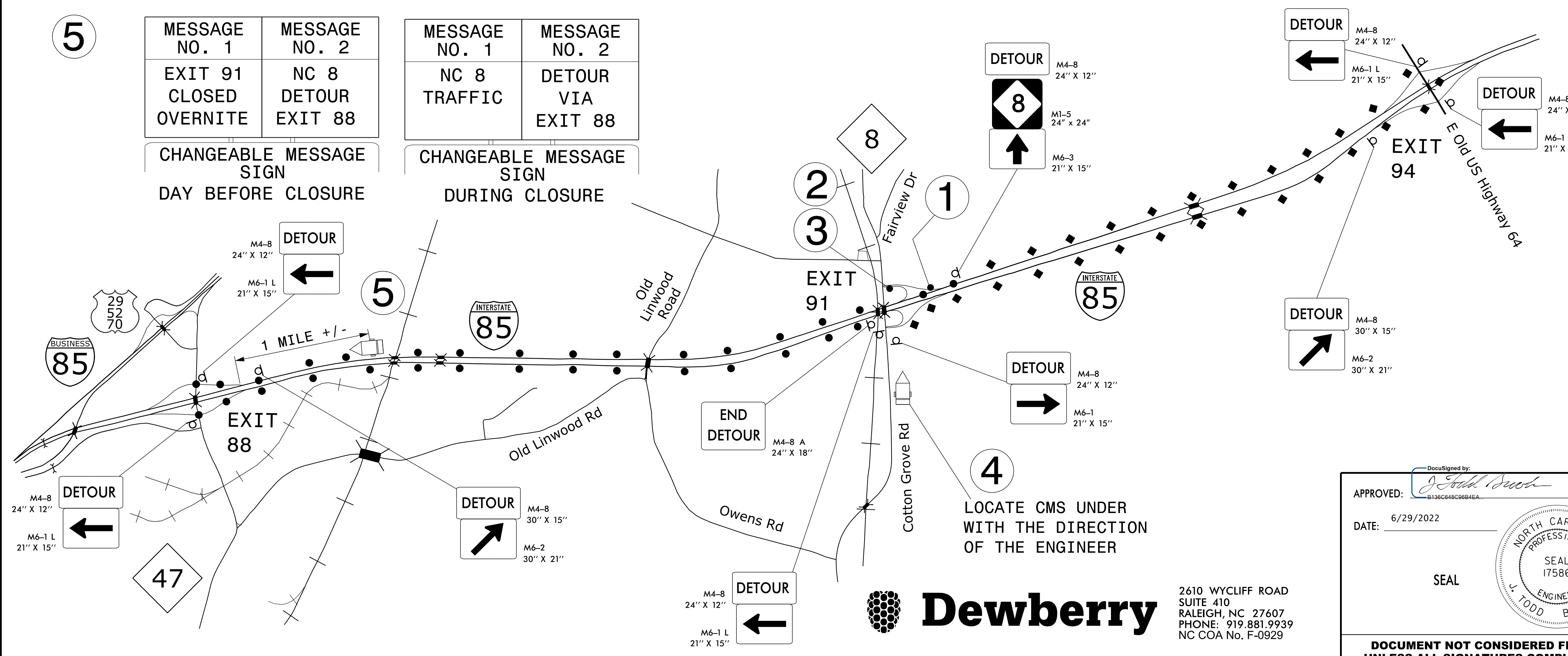
**DETOUR ROUTE TO BE USED DURING CLOSURE:**

NC 8 RAMP A ●●●

NC 8 LOOP A ◆◆◆

RAMP A TRAFFIC WILL CONTINUE TO EXIT 88 AND USE THAT INTERCHANGE TO ACCESS I-85 NB. TAKE I-85 NB TO EXIT 91 LOOP D.

LOOP A TRAFFIC WILL ACCESS I-85 SB VIA RAMP D AND I-85 NB. ONCE ON I-85 NB, CONTINUE TO EXIT 94 AND ACCESS I-85 SB VIA THAT INTERCHANGE.

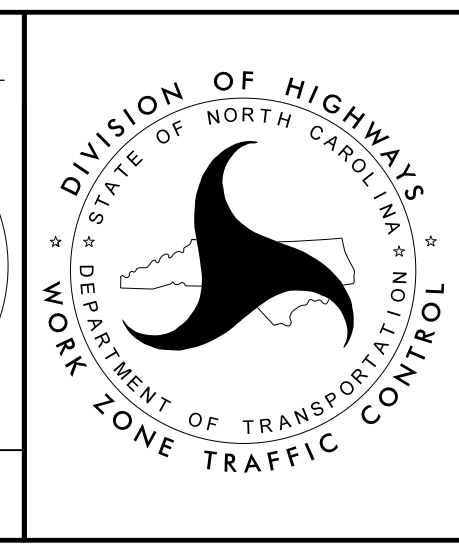


2610 WYCLIFF ROAD  
SUITE 410  
RALEIGH, NC 27607  
PHONE: 919.881.9939  
NC COA No. F-0929

APPROVED: *[Signature]*  
DATE: 6/29/2022

SEAL

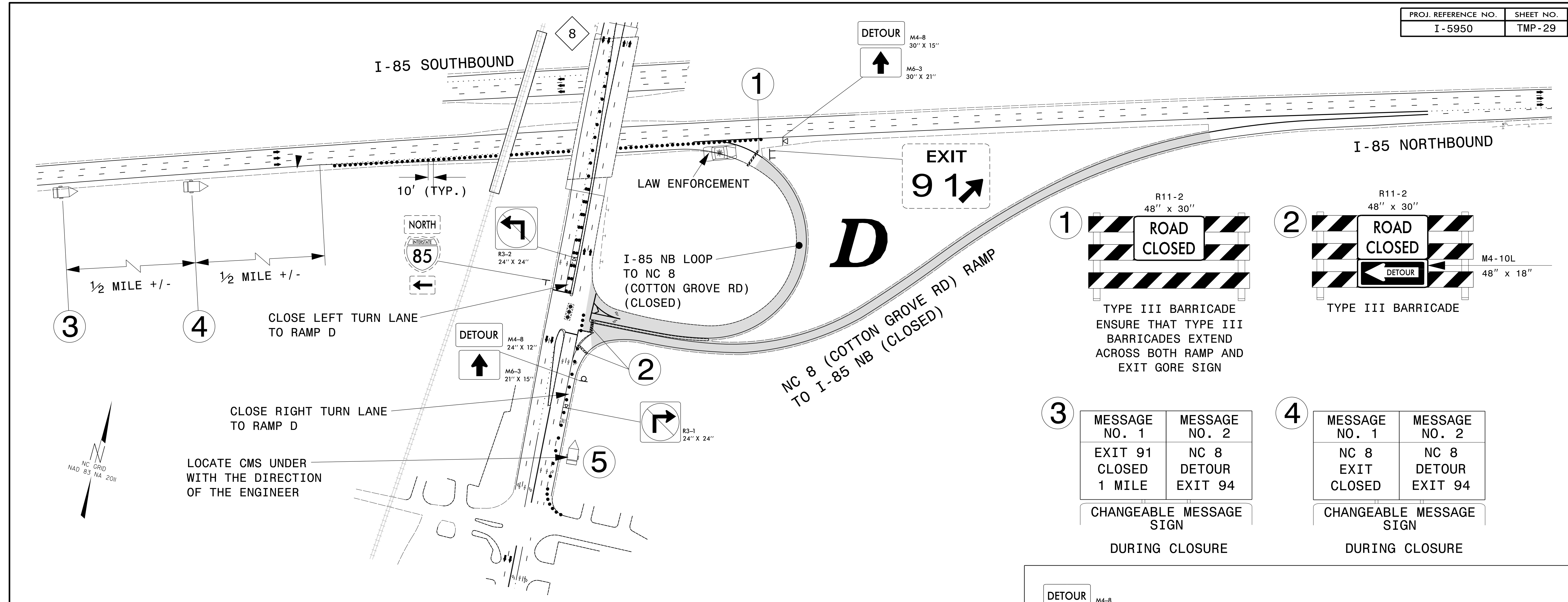
**DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED**



**NC 8 RAMP & LOOP A DETOUR ROUTES**

24-JUN-2022 11:27  
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 Jwilis AT 890K8AV4

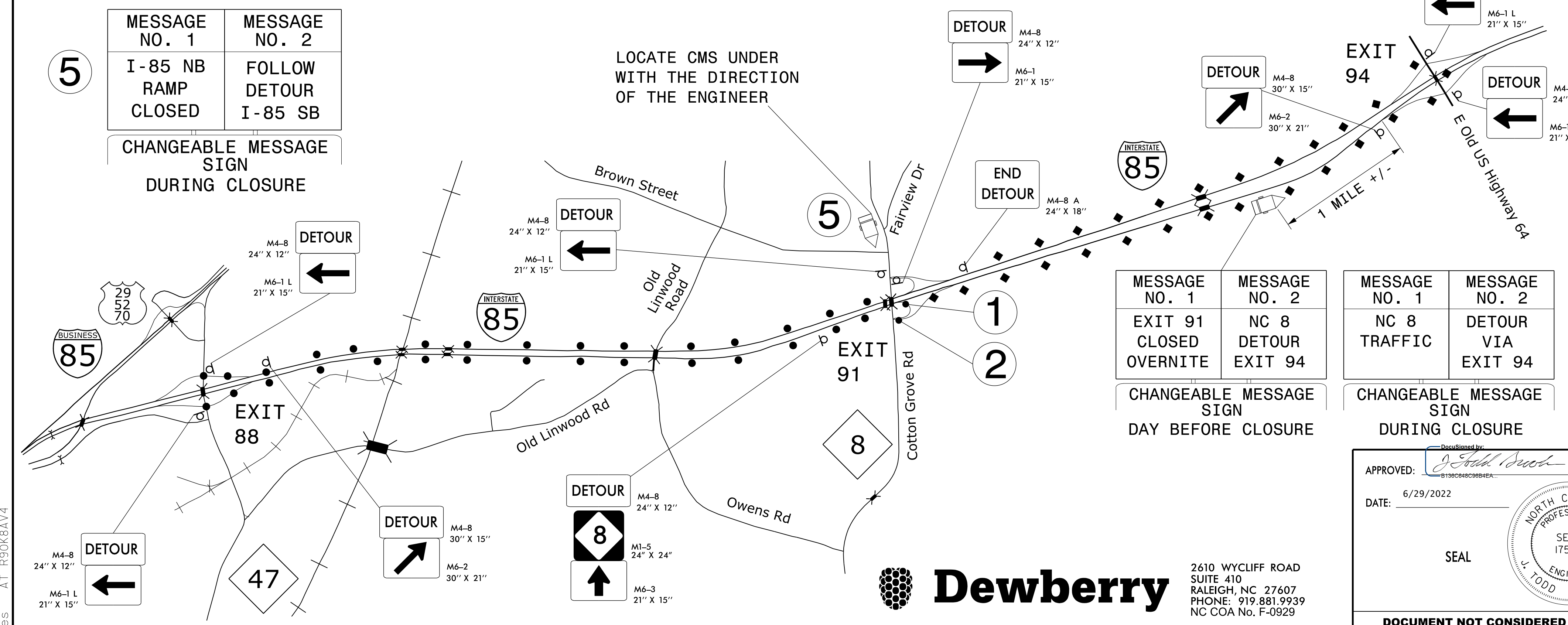




5

MESSAGE NO. 1	MESSAGE NO. 2
I-85 NB RAMP CLOSED	FOLLOW DETOUR I-85 SB

CHANGEABLE MESSAGE SIGN DURING CLOSURE



**DETOUR ROUTE TO BE USED DURING CLOSURE:**

NC 8 LOOP D

NC 8 RAMP D

LOOP D TRAFFIC WILL CONTINUE TO EXIT 94 AND USE THAT INTERCHANGE TO ACCESS I-85 SB. TAKE I-85 SB TO EXIT 88 RAMP A.

RAMP D TRAFFIC WILL ACCESS I-85 NB VIA LOOP A AND I-85 SB. ONCE ON I-85 SB, CONTINUE TO EXIT 88 AND ACCESS I-85 NB VIA THAT INTERCHANGE.

MESSAGE NO. 1	MESSAGE NO. 2
EXIT 91 CLOSED OVERNITE	NC 8 DETOUR EXIT 94

CHANGEABLE MESSAGE SIGN DAY BEFORE CLOSURE

MESSAGE NO. 1	MESSAGE NO. 2
NC 8 TRAFFIC	DETOUR VIA EXIT 94

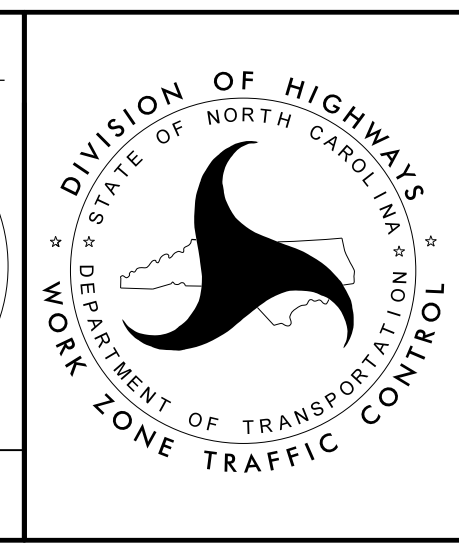
CHANGEABLE MESSAGE SIGN DURING CLOSURE

APPROVED:

DATE: 6/29/2022

SEAL

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

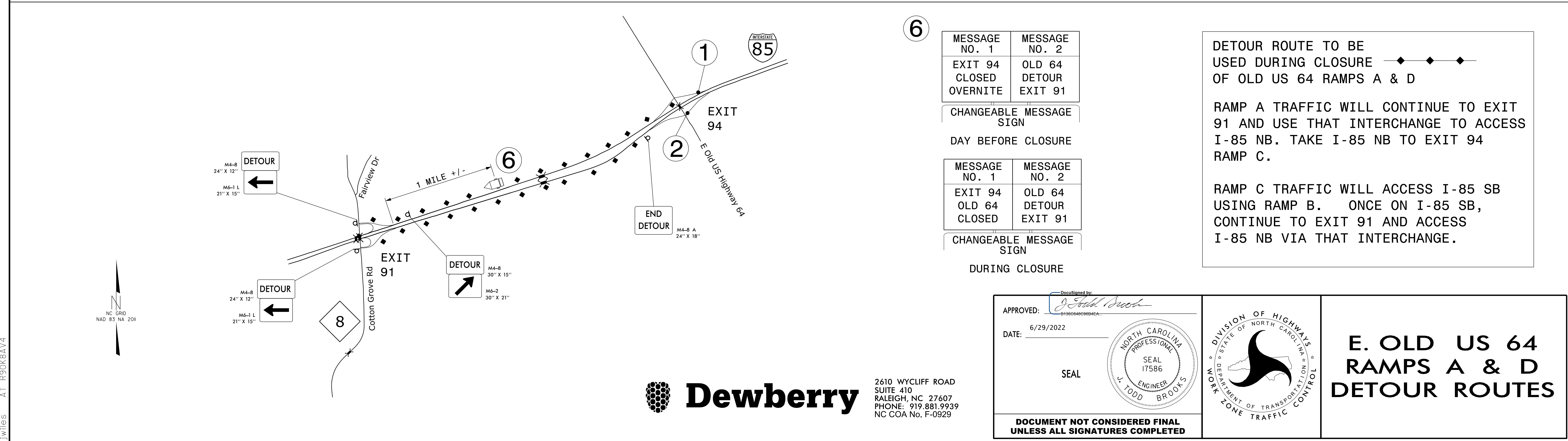
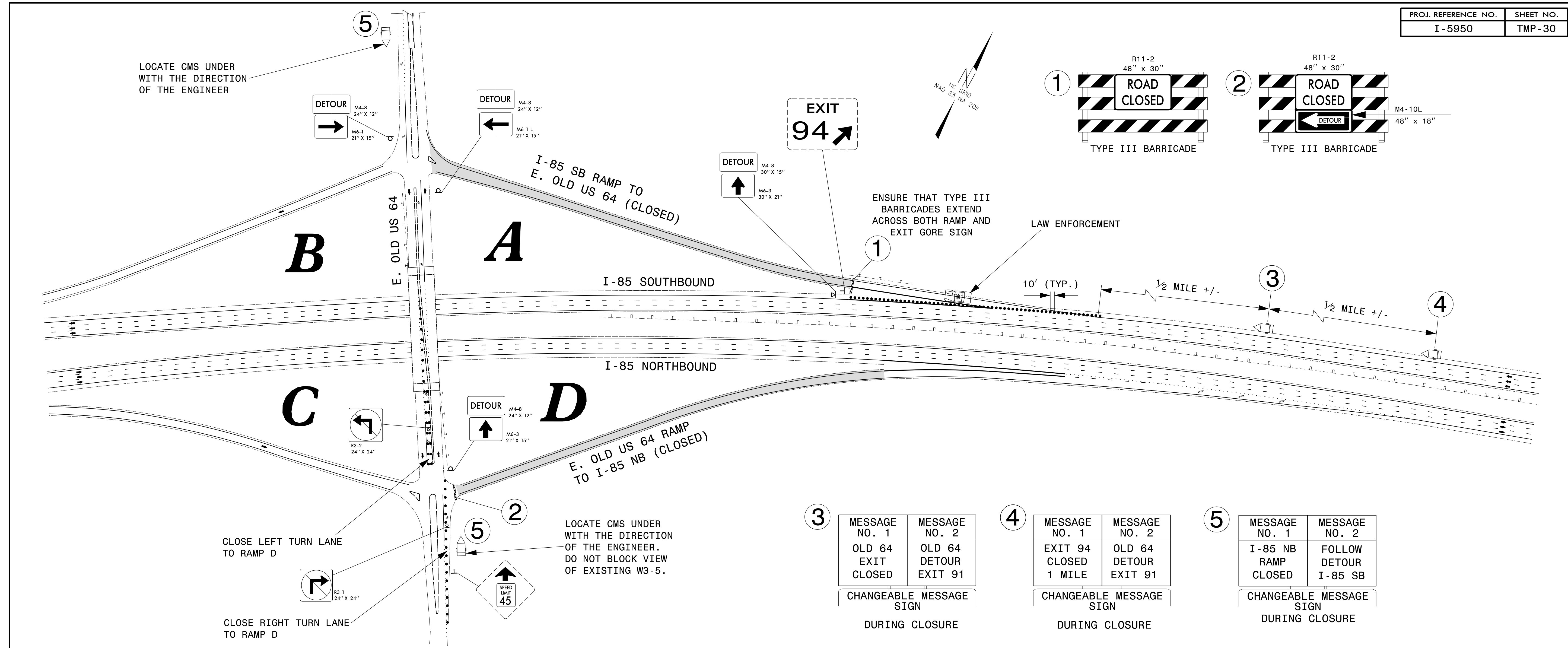


**NC 8 RAMP & LOOP D DETOUR ROUTES**

2610 WYCLIFF ROAD  
SUITE 410  
RALEIGH, NC 27607  
PHONE: 919.881.9939  
NC COA No. F-0929

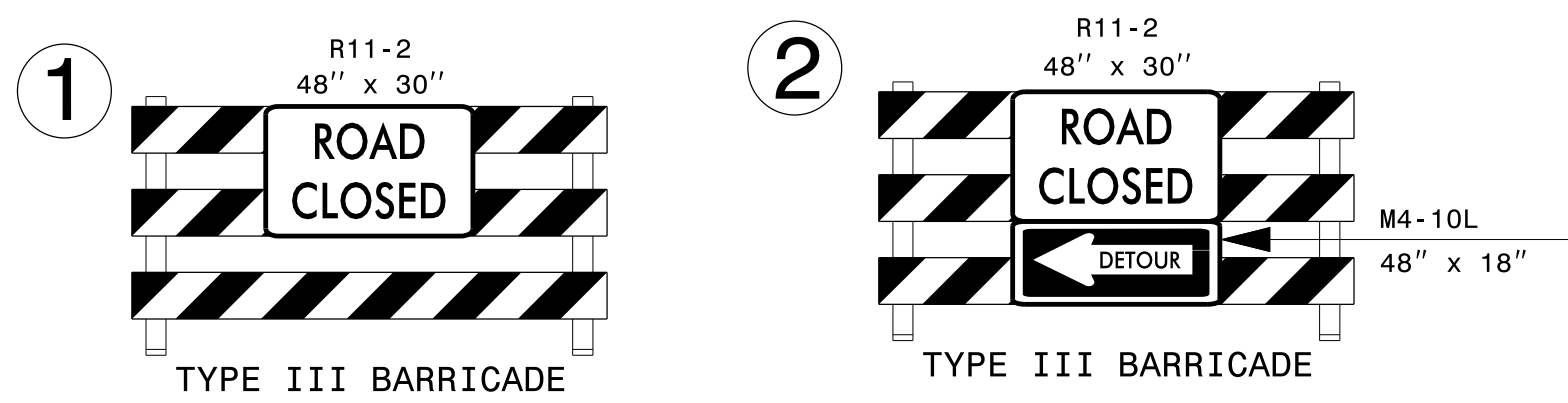
24-JUN-2022 11:27  
 P:\50152556\CAD\CIVIL\Plans\200\_038\_15950\_TC\_TCP\_29.dgn  
 Jwilis AT 190K8AV4





24-JUN-2022 11:27  
 P:\50152536\CAD\CIVIL\Plans\200\_039\_15950\_TC\_TCP\_30.dgn  
 I:\wiles AT 890K8AV4





3

MESSAGE NO. 1	MESSAGE NO. 2
EXIT 94 CLOSED 1 MILE	OLD 64 DETOUR EXIT 96

CHANGEABLE MESSAGE SIGN DURING CLOSURE

4

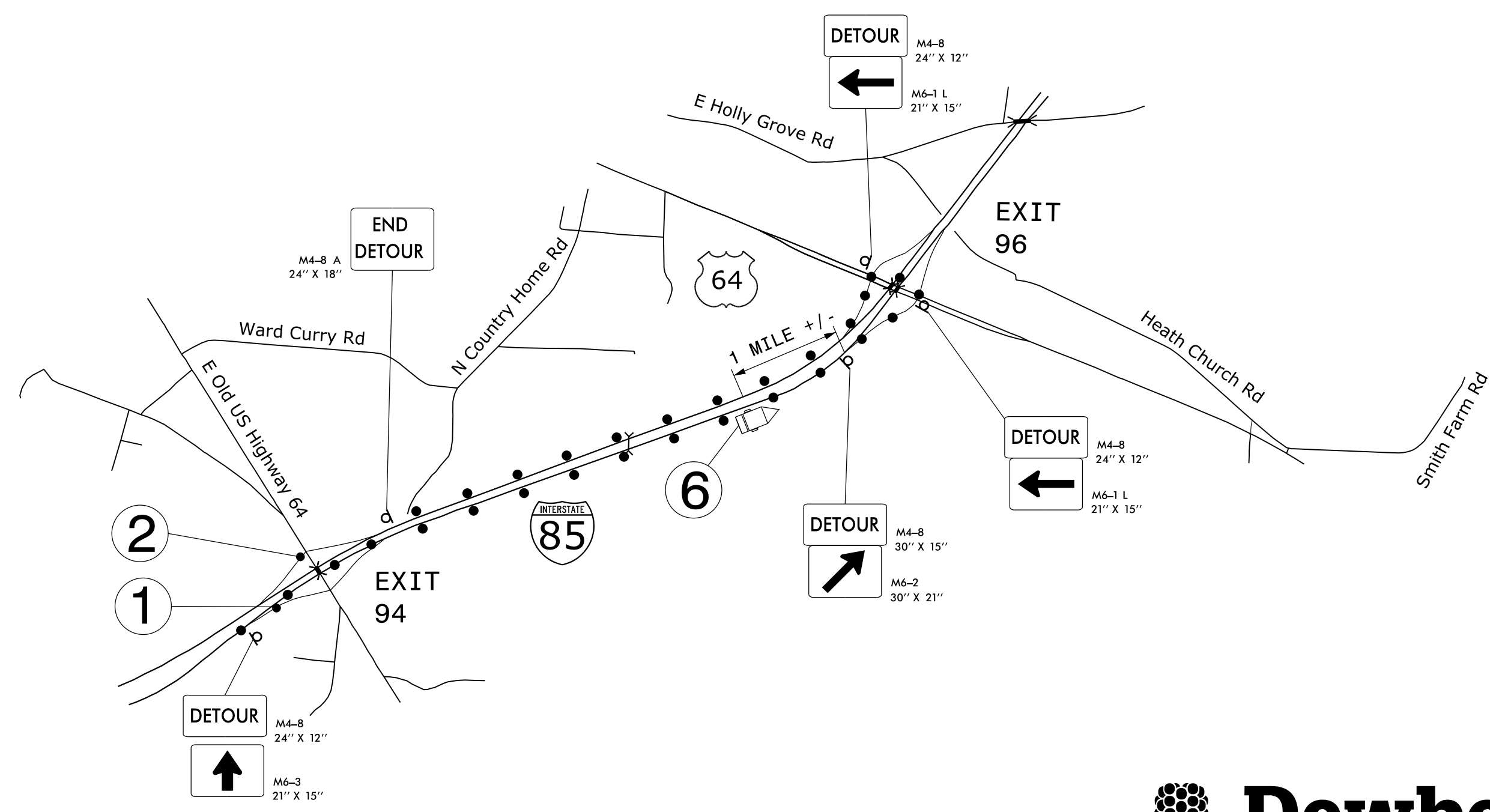
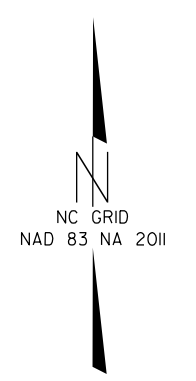
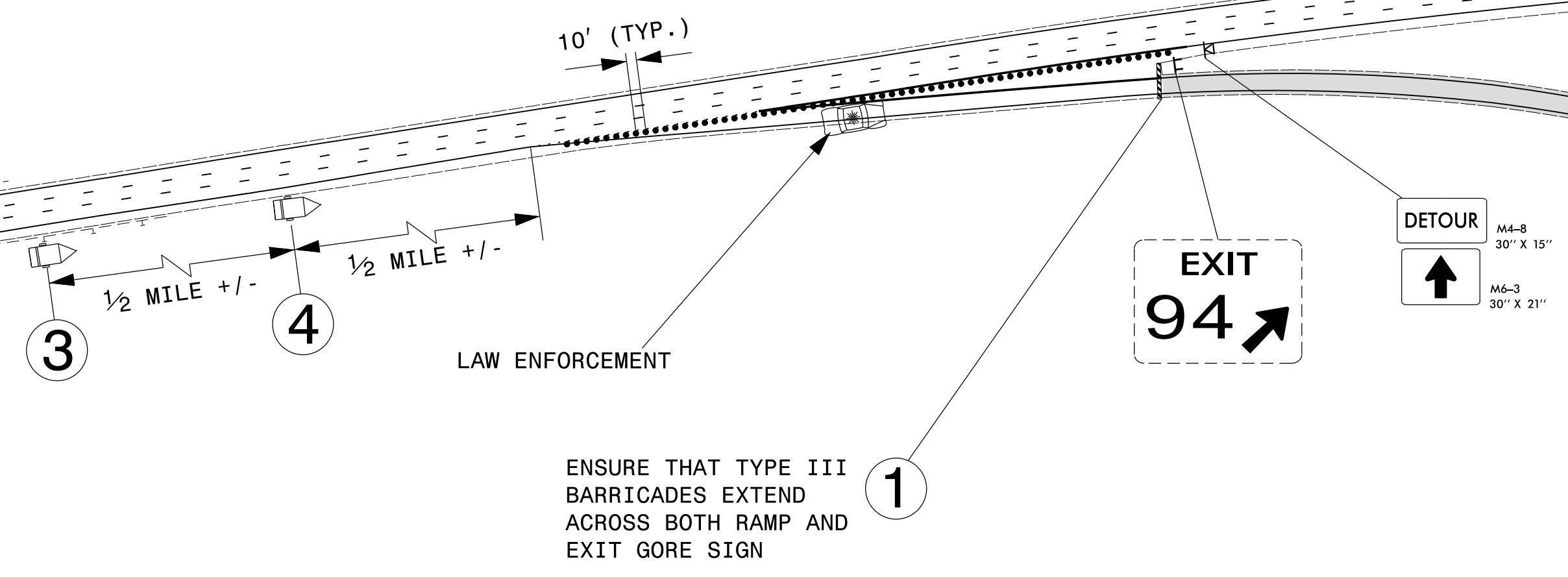
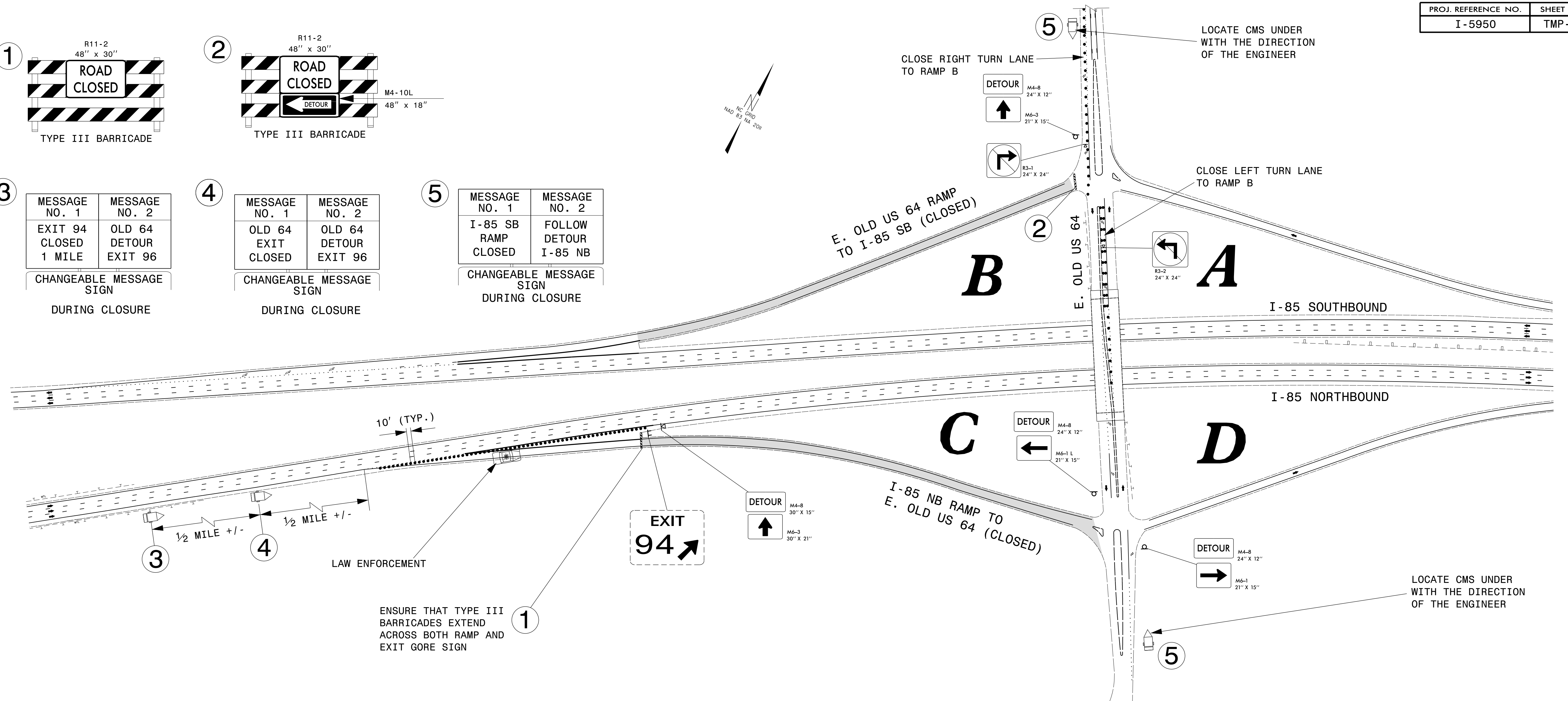
MESSAGE NO. 1	MESSAGE NO. 2
OLD 64 EXIT CLOSED	OLD 64 DETOUR EXIT 96

CHANGEABLE MESSAGE SIGN DURING CLOSURE

5

MESSAGE NO. 1	MESSAGE NO. 2
I-85 SB RAMP CLOSED	FOLLOW DETOUR I-85 NB

CHANGEABLE MESSAGE SIGN DURING CLOSURE



6

MESSAGE NO. 1	MESSAGE NO. 2
EXIT 94 CLOSED OVERNITE	OLD 64 DETOUR EXIT 96

CHANGEABLE MESSAGE SIGN DAY BEFORE CLOSURE

MESSAGE NO. 1	MESSAGE NO. 2
EXIT 94 OLD 64 CLOSED	OLD 64 DETOUR EXIT 96

CHANGEABLE MESSAGE SIGN DURING CLOSURE

DETOUR ROUTE TO BE USED DURING CLOSURE OF OLD US 64 RAMPS B & C

RAMP B TRAFFIC WILL ACCESS I-85 NB USING RAMP D. ONCE ON I-85 NB, CONTINUE TO EXIT 96 AND ACCESS I-85 SB VIA THAT INTERCHANGE.

RAMP C TRAFFIC WILL CONTINUE TO EXIT 96 AND USE THAT INTERCHANGE TO ACCESS I-85 SB. TAKE I-85 SB TO EXIT 94 RAMP A.

24-JUN-2022 11:27 P:\50152556\CAD\CIVIL\Plans\200\_040\_15950\_TC\_TCP\_31.dgn jwiles AT 890K8AV4

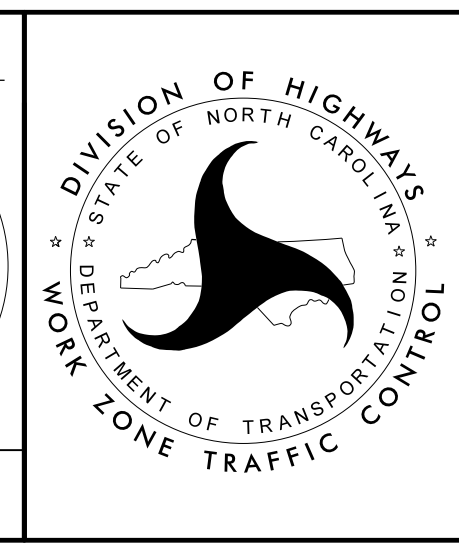


2610 WYCLIFF ROAD  
SUITE 410  
RALEIGH, NC 27607  
PHONE: 919.881.9939  
NC COA No. F-0929

APPROVED: *[Signature]*  
DATE: 6/29/2022

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**E. OLD US 64 RAMPS B & C DETOUR ROUTES**

DEPARTMENT OF TRANSPORTATION  
WORK ZONE TRAFFIC CONTROL



5

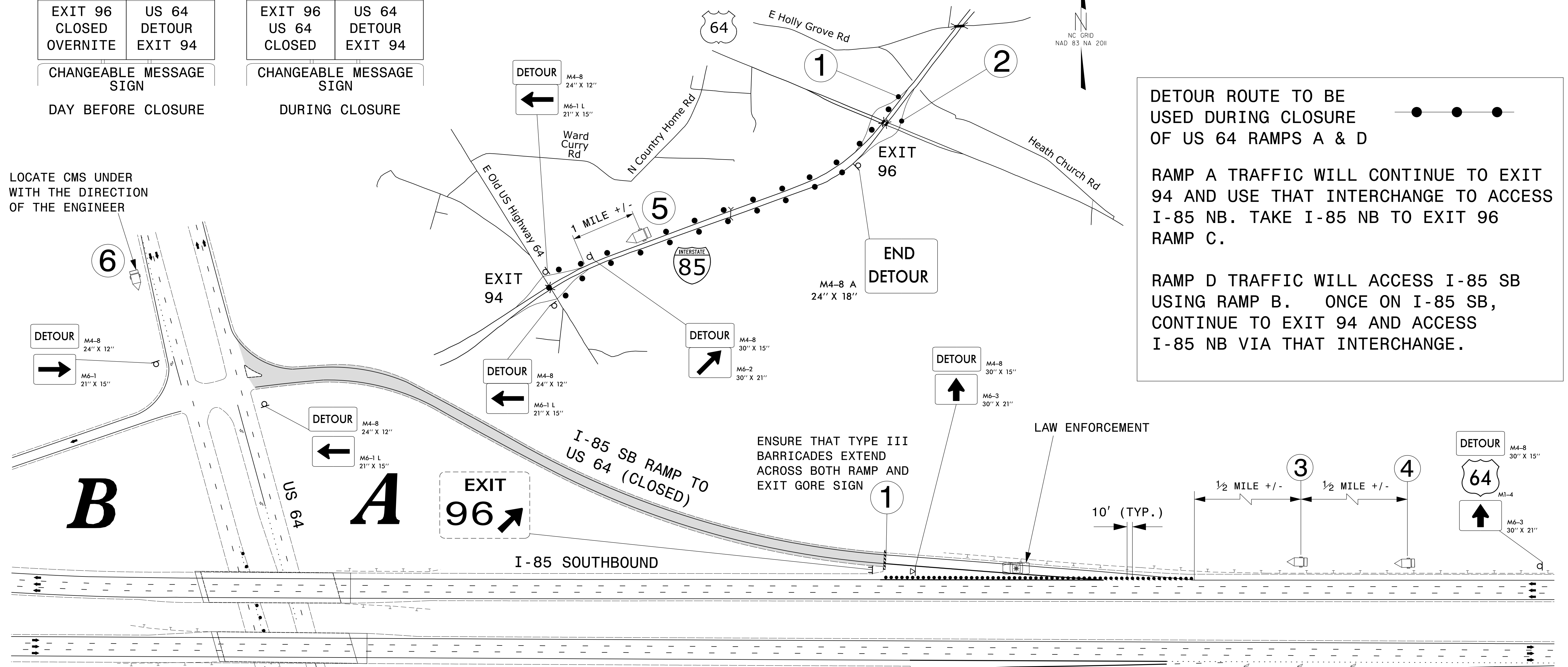
MESSAGE NO. 1	MESSAGE NO. 2
EXIT 96 CLOSED OVERNITE	US 64 DETOUR EXIT 94

CHANGEABLE MESSAGE SIGN  
DAY BEFORE CLOSURE

MESSAGE NO. 1	MESSAGE NO. 2
EXIT 96 US 64 CLOSED	US 64 DETOUR EXIT 94

CHANGEABLE MESSAGE SIGN  
DURING CLOSURE

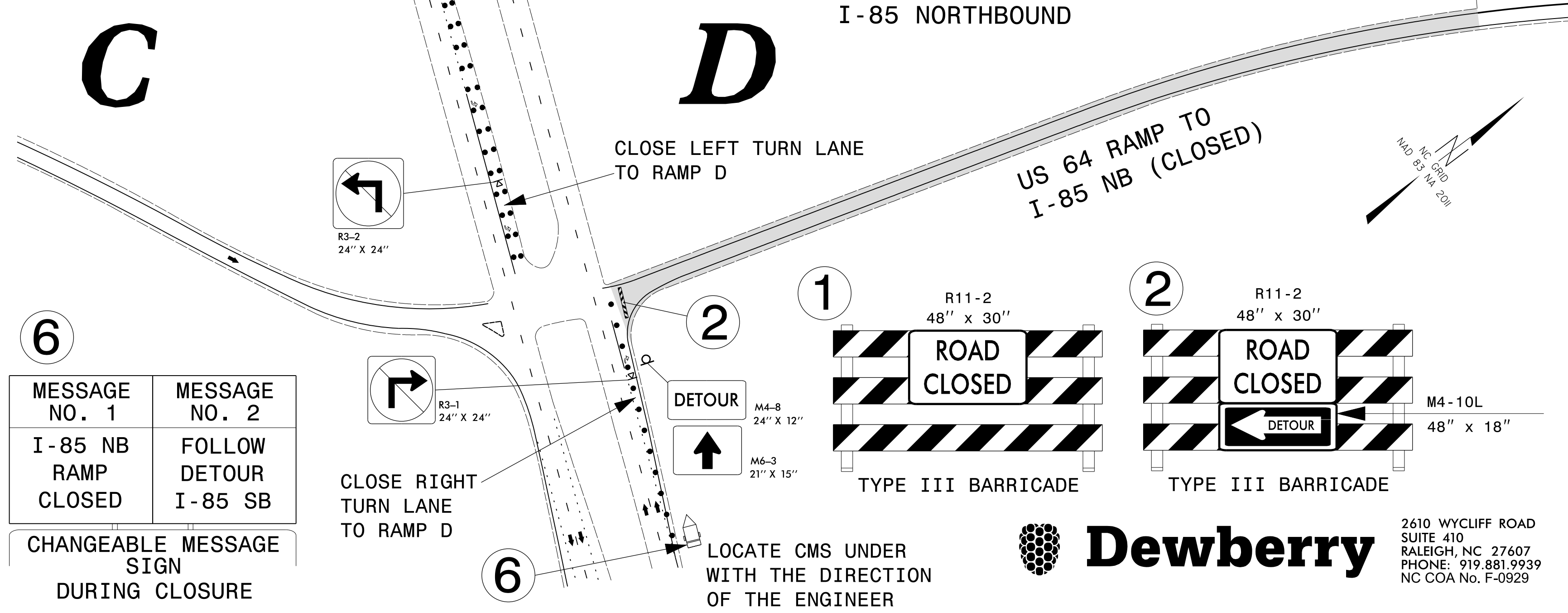
LOCATE CMS UNDER WITH THE DIRECTION OF THE ENGINEER



DETOUR ROUTE TO BE USED DURING CLOSURE OF US 64 RAMPS A & D

RAMP A TRAFFIC WILL CONTINUE TO EXIT 94 AND USE THAT INTERCHANGE TO ACCESS I-85 NB. TAKE I-85 NB TO EXIT 96 RAMP C.

RAMP D TRAFFIC WILL ACCESS I-85 SB USING RAMP B. ONCE ON I-85 SB, CONTINUE TO EXIT 94 AND ACCESS I-85 NB VIA THAT INTERCHANGE.



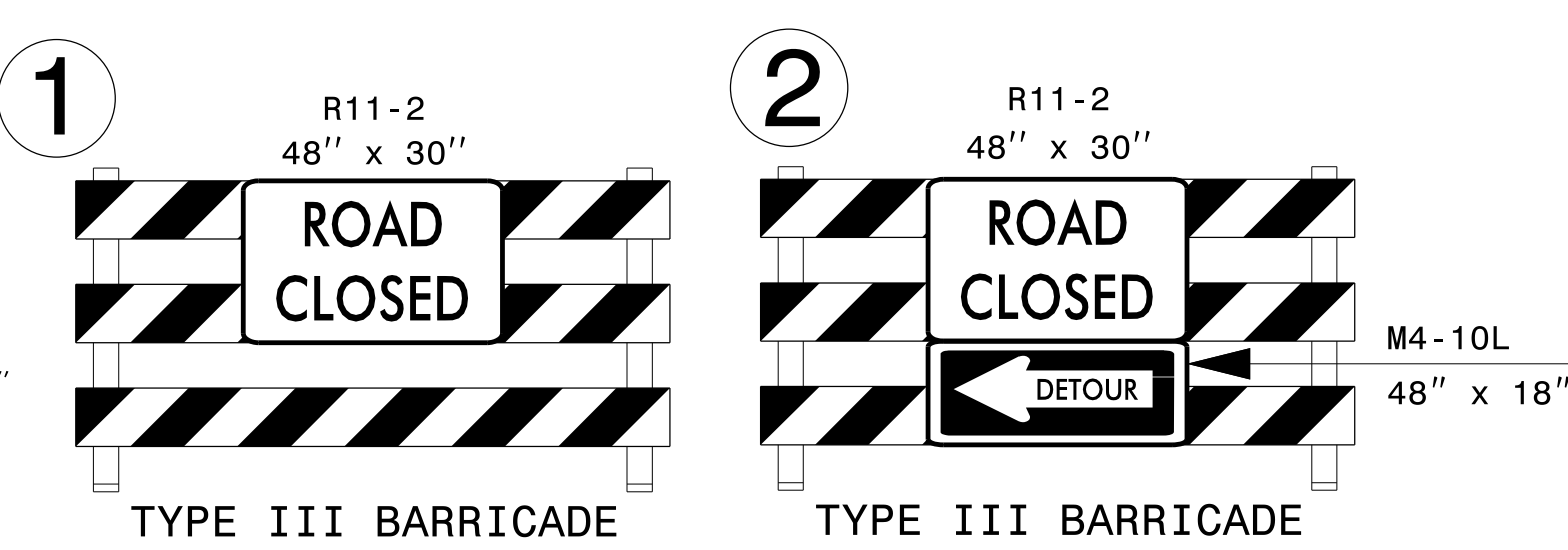
6

MESSAGE NO. 1	MESSAGE NO. 2
I-85 NB RAMP CLOSED	FOLLOW DETOUR I-85 SB

CHANGEABLE MESSAGE SIGN  
DURING CLOSURE

CLOSE RIGHT TURN LANE TO RAMP D

LOCATE CMS UNDER WITH THE DIRECTION OF THE ENGINEER



3

MESSAGE NO. 1	MESSAGE NO. 2
US 64 EXIT CLOSED	US 64 DETOUR EXIT 94

CHANGEABLE MESSAGE SIGN  
DURING CLOSURE

4

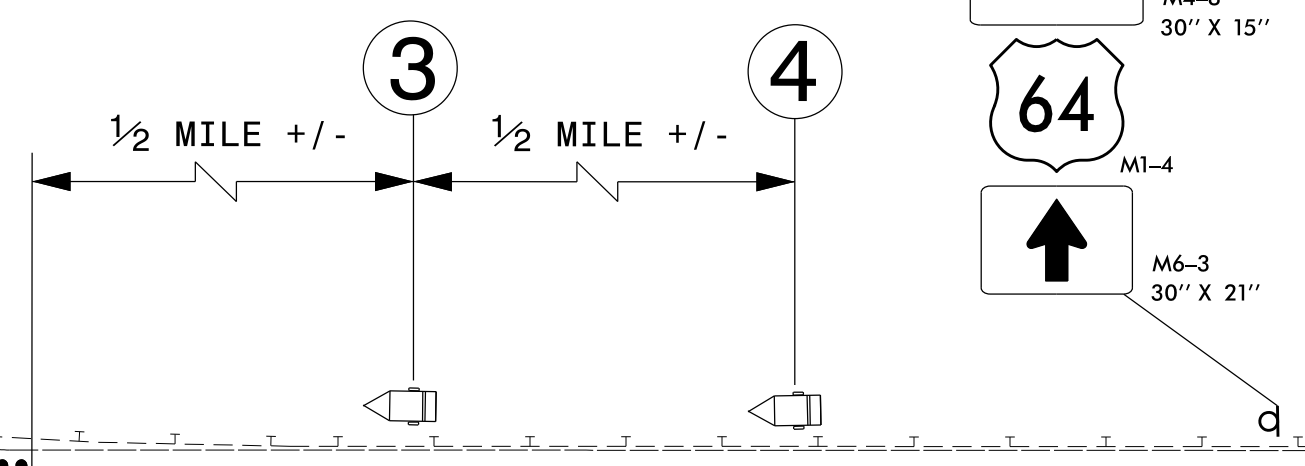
MESSAGE NO. 1	MESSAGE NO. 2
EXIT 96 CLOSED 1 MILE	US 64 DETOUR EXIT 94

CHANGEABLE MESSAGE SIGN  
DURING CLOSURE

ENSURE THAT TYPE III BARRICADES EXTEND ACROSS BOTH RAMP AND EXIT GORE SIGN

LAW ENFORCEMENT

10' (TYP.)



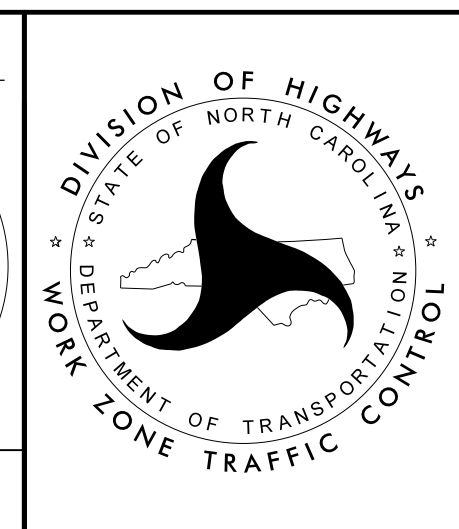
24-JUN-2022 11:27 P:\50152556\CAD\CIVIL\Plans\200\_041\_5950\_TC\_TCP\_32.dgn Jwiles AT 8908AV4

**Dewberry**  
2610 WYCLIFF ROAD  
SUITE 410  
RALEIGH, NC 27607  
PHONE: 919.881.9939  
NC COA No. F-0929

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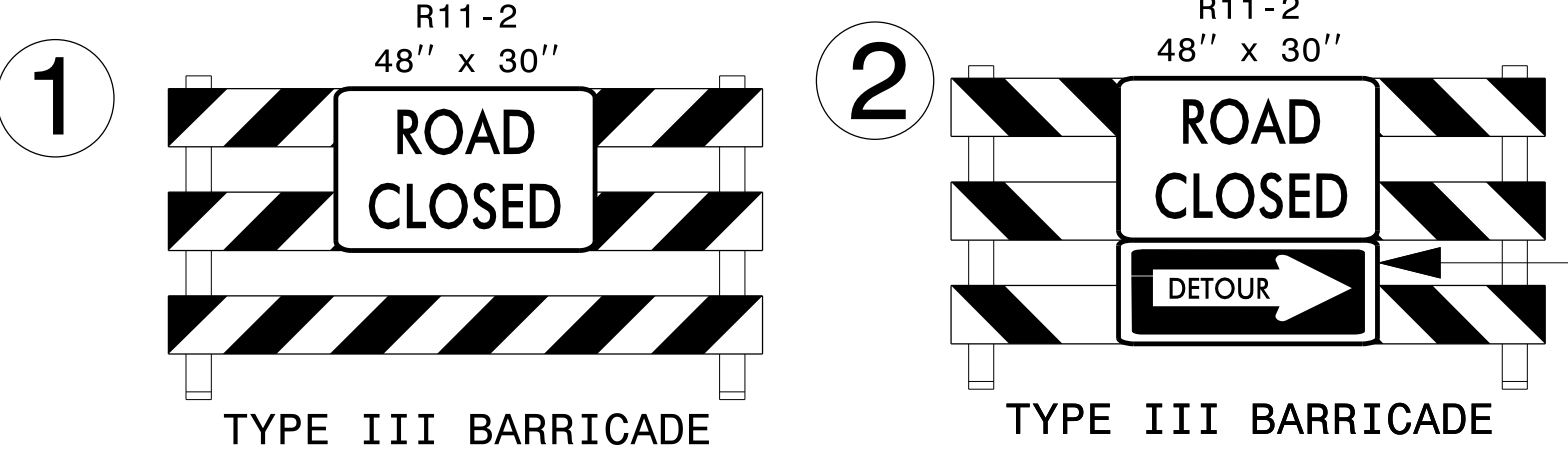
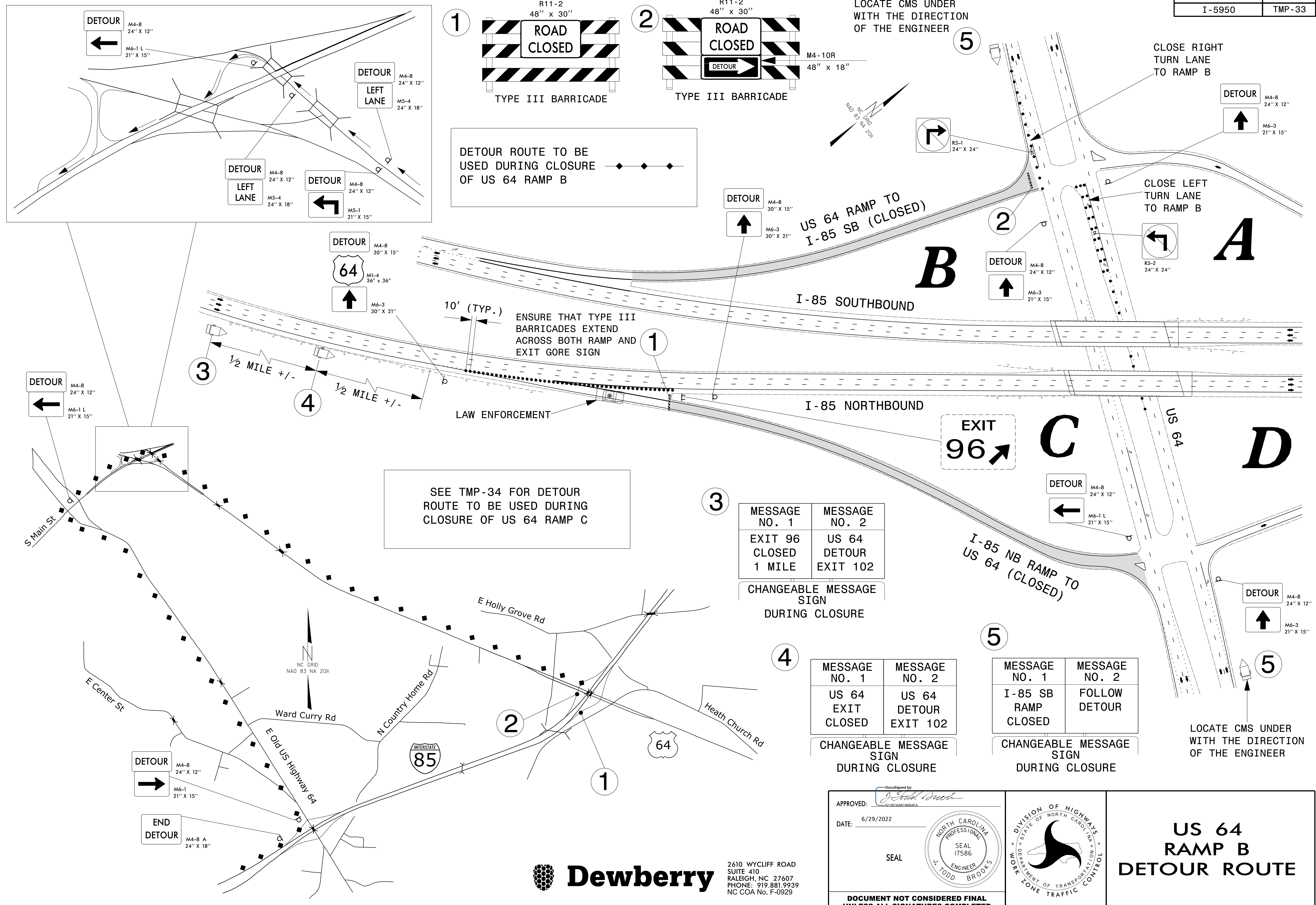
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DIVISION OF HIGHWAYS  
STATE OF NORTH CAROLINA  
DEPARTMENT OF TRANSPORTATION  
WORK ZONE TRAFFIC CONTROL

**US 64  
RAMPS A & D  
DETOUR ROUTES**





DETOUR ROUTE TO BE USED DURING CLOSURE OF US 64 RAMP B

LOCATE CMS UNDER WITH THE DIRECTION OF THE ENGINEER

SEE TMP-34 FOR DETOUR ROUTE TO BE USED DURING CLOSURE OF US 64 RAMP C

ENSURE THAT TYPE III BARRICADES EXTEND ACROSS BOTH RAMP AND EXIT GORE SIGN

**3**

MESSAGE NO. 1	MESSAGE NO. 2
EXIT 96 CLOSED 1 MILE	US 64 DETOUR EXIT 102

CHANGEABLE MESSAGE SIGN DURING CLOSURE

**4**

MESSAGE NO. 1	MESSAGE NO. 2
US 64 EXIT CLOSED	US 64 DETOUR EXIT 102

CHANGEABLE MESSAGE SIGN DURING CLOSURE

**5**

MESSAGE NO. 1	MESSAGE NO. 2
I-85 SB RAMP CLOSED	FOLLOW DETOUR

CHANGEABLE MESSAGE SIGN DURING CLOSURE

24-JUN-2022 11:27 P:\50152556\CAD\CIVIL\Plans\200\_042\_15950\_TC\_TCP\_33.dgn J:\wiles AT 15908AV4



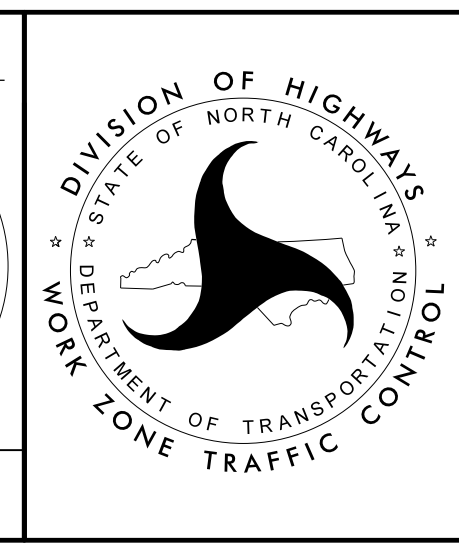
2610 WYCLIFF ROAD  
SUITE 410  
RALEIGH, NC 27607  
PHONE: 919.881.9939  
NC COA No. F-0929

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**SEAL**  
NORTH CAROLINA PROFESSIONAL ENGINEER  
J. TODD BROOKS  
17586

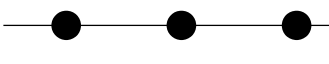
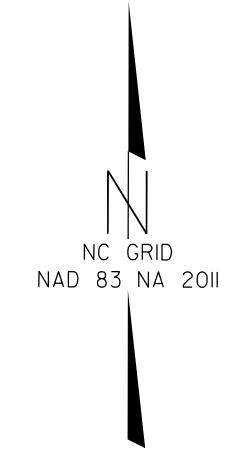
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**US 64 RAMP B DETOUR ROUTE**

PLACE 1 MILE +/-  
IN ADVANCE OF EXIT 102

DETOUR ROUTE TO BE  
USED DURING CLOSURE  
OF US 64 RAMP C

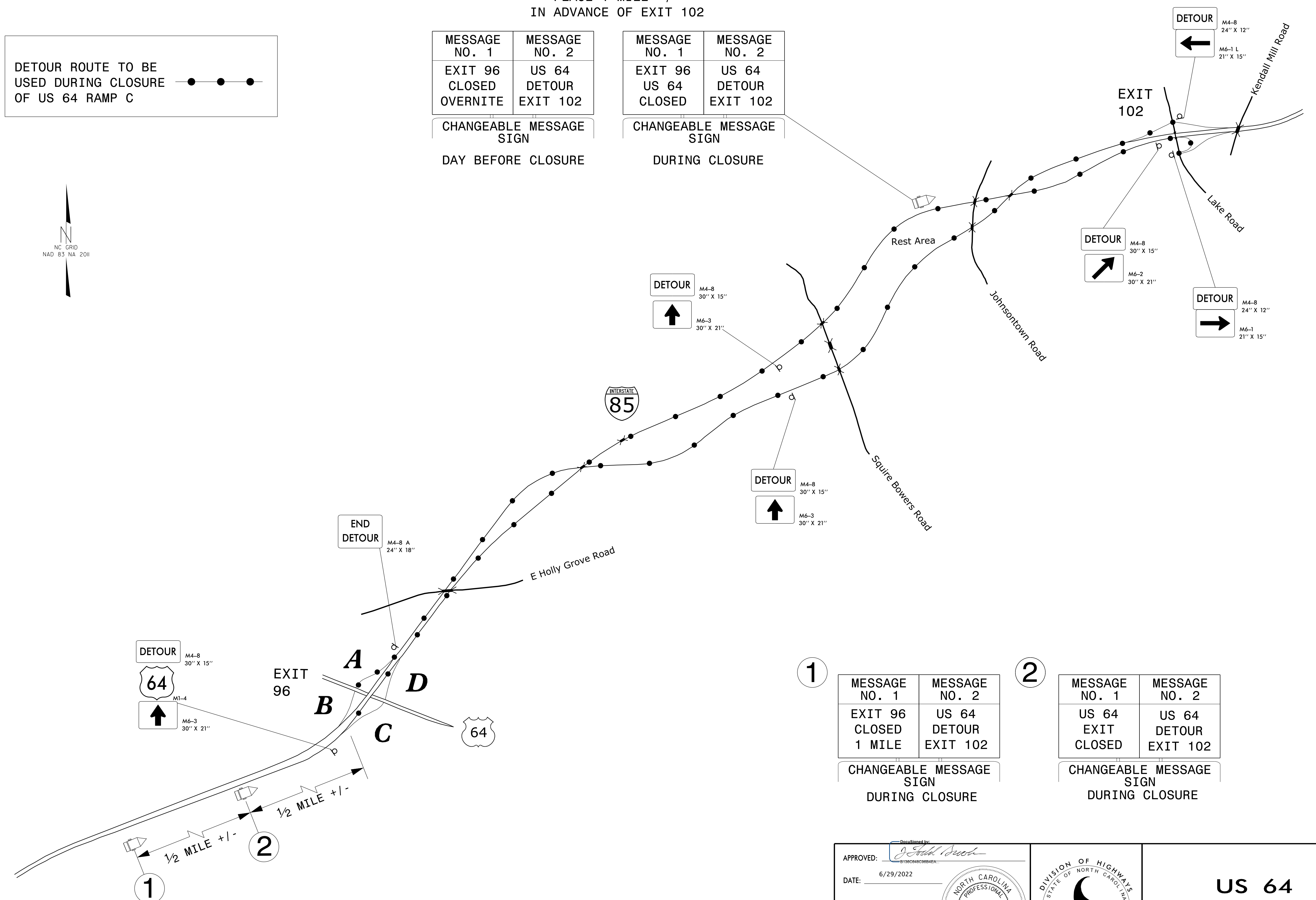



MESSAGE NO. 1	MESSAGE NO. 2
EXIT 96 CLOSED OVERNITE	US 64 DETOUR EXIT 102

CHANGEABLE MESSAGE  
SIGN  
DAY BEFORE CLOSURE

MESSAGE NO. 1	MESSAGE NO. 2
EXIT 96 US 64 CLOSED	US 64 DETOUR EXIT 102

CHANGEABLE MESSAGE  
SIGN  
DURING CLOSURE

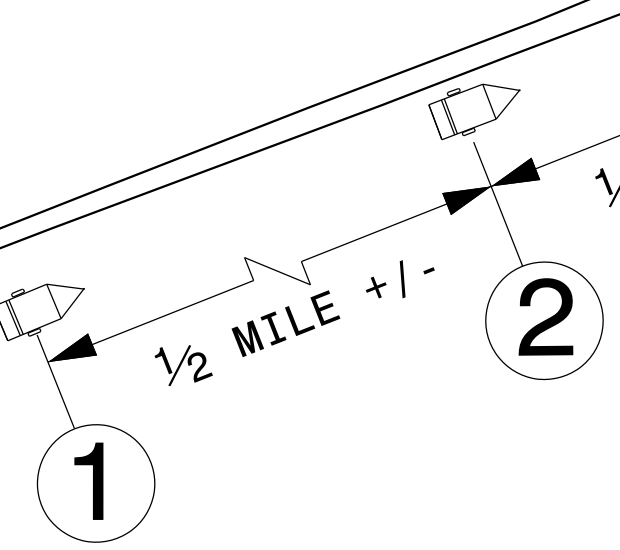


DETOUR

M4-8 30" X 15"	M1-4
64	M6-3 30" X 21"

EXIT 96

A  
B  
C  
D



DETOUR

M4-8 30" X 15"	M6-3 30" X 21"
↑	

DETOUR

M4-8 30" X 15"	M6-3 30" X 21"
↑	

DETOUR

M4-8 30" X 15"	M6-2 30" X 21"
↗	

DETOUR

M4-8 24" X 12"	M6-1 21" X 15"
→	

1

MESSAGE NO. 1	MESSAGE NO. 2
EXIT 96 CLOSED 1 MILE	US 64 DETOUR EXIT 102

CHANGEABLE MESSAGE  
SIGN  
DURING CLOSURE

2

MESSAGE NO. 1	MESSAGE NO. 2
US 64 EXIT CLOSED	US 64 DETOUR EXIT 102

CHANGEABLE MESSAGE  
SIGN  
DURING CLOSURE

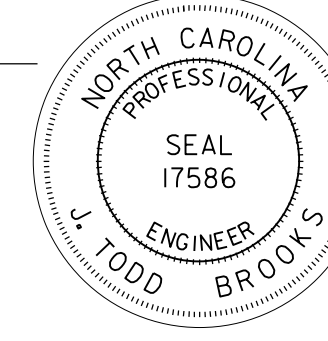
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 Jwiles AT 890K8AV4



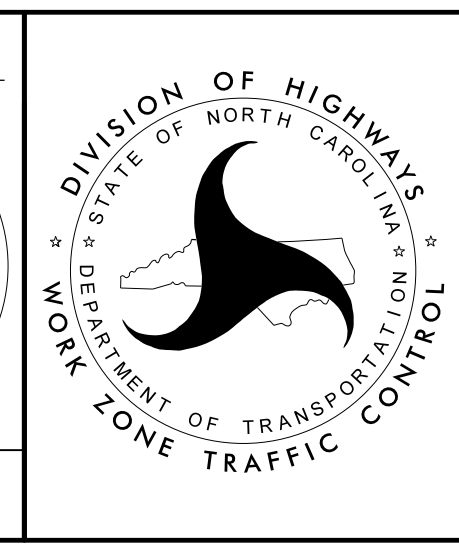
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**US 64  
RAMP C  
DETOUR ROUTE**