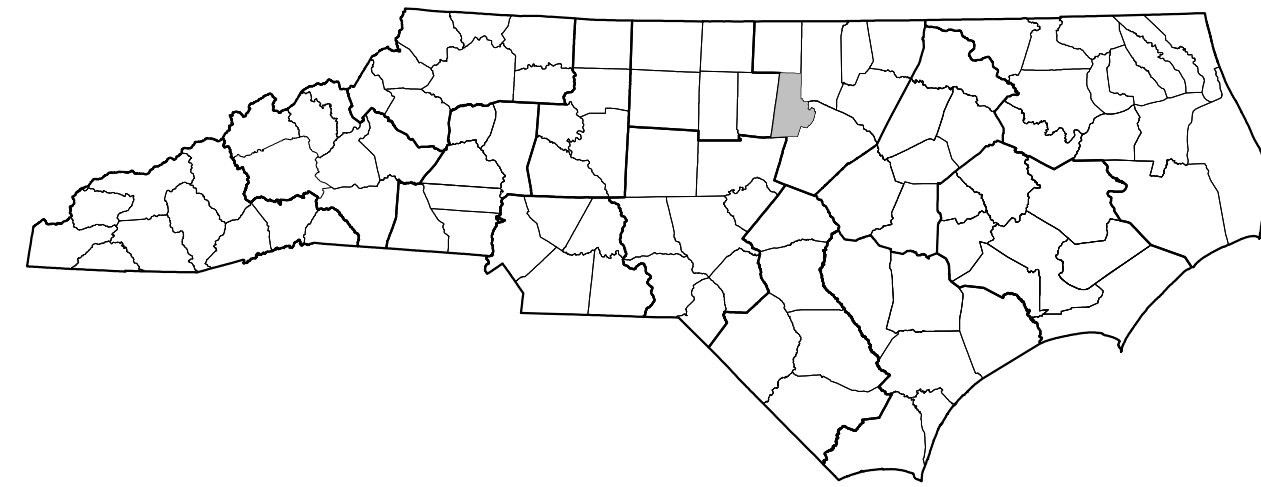


STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

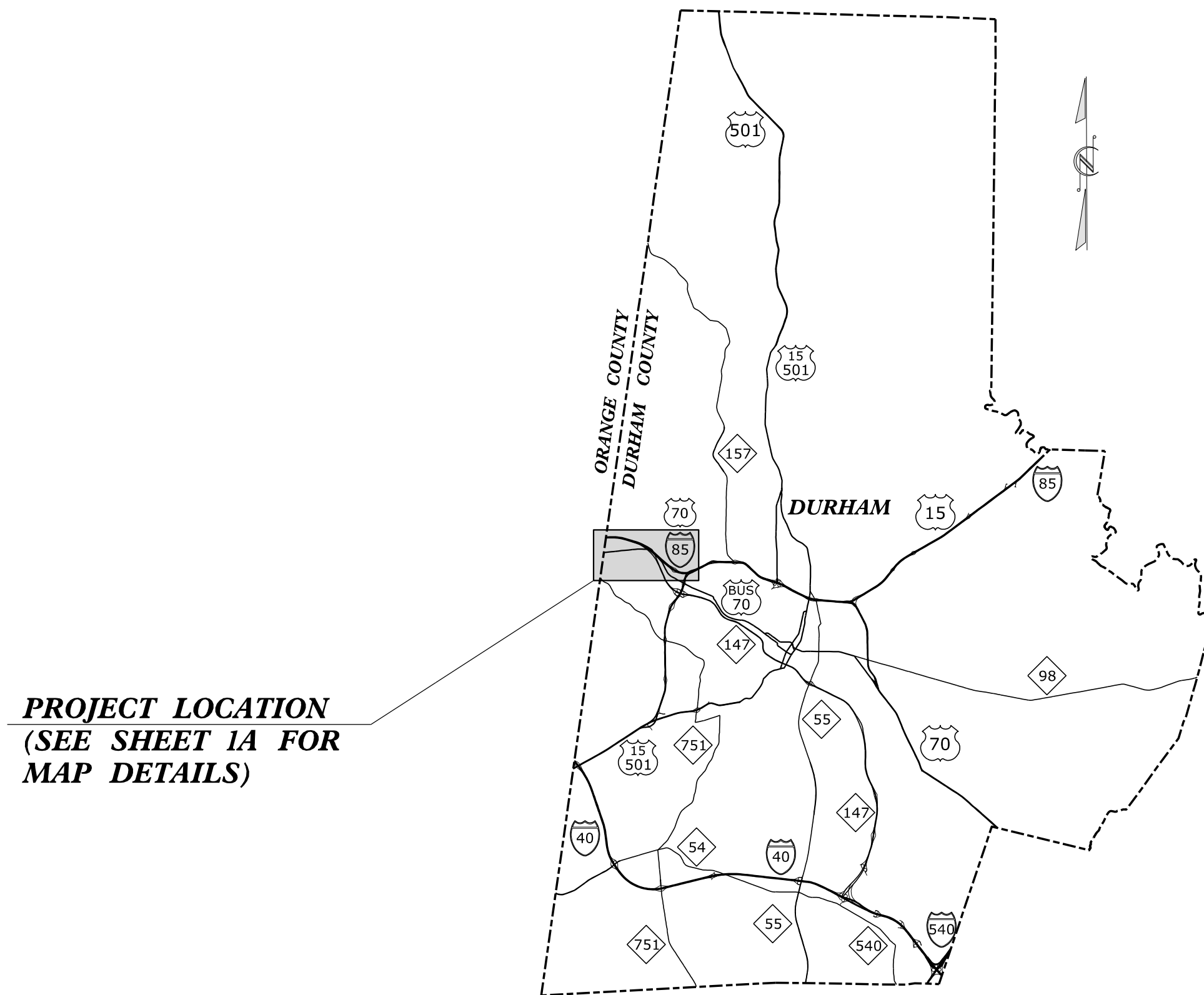
TRANSPORTATION MANAGEMENT PLAN

DURHAM COUNTY

DIVISION 5



LOCATION - I-85 FROM THE ORANGE COUNTY LINE TO US 15-501
TYPE OF WORK - PAVEMENT REHABILITATION, BRIDGE PRESERVATION, SIGNING, AND SIGNALS



PROJECT LOCATION
(SEE SHEET 1A FOR
MAP DETAILS)

VICINITY MAP (N.T.S)

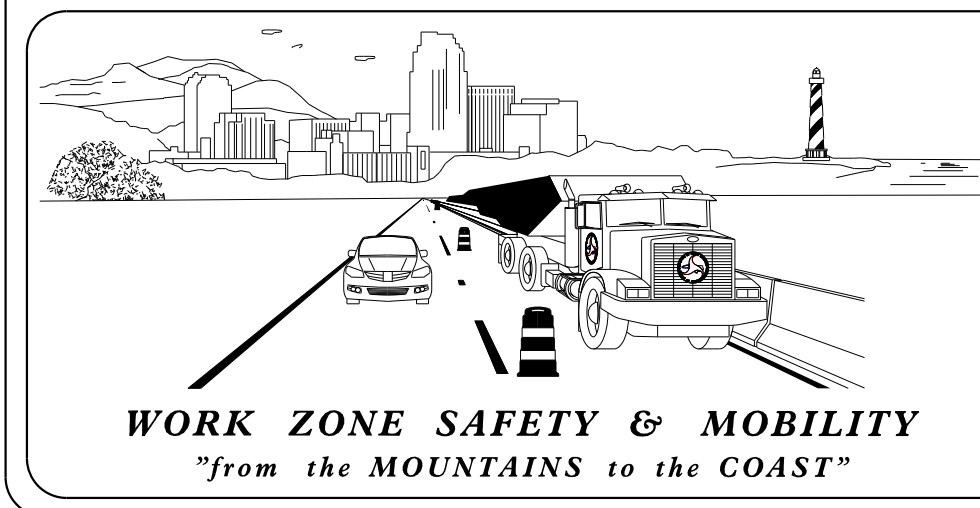
INDEX OF SHEETS

SHEET NO.	TITLE
TMP-1	TITLE SHEET, VICINITY MAP, AND INDEX OF SHEETS
TMP-1A	LIST OF APPLICABLE ROADWAY STANDARD DRAWINGS, AND LEGEND
TMP-2, 2A	GENERAL NOTES
TMP-2B	PHASING
TMP-3	COLE MILL ROAD RAMP A, RAMP B, RAMP C DETOUR ROUTES
TMP-3A	COLE MILL ROAD RAMP D, NC-147 NB DETOUR ROUTES
TMP-3B	NC-147 SB DETOUR ROUTE
TMP-4 TO TMP-6	COLE MILL ROAD RAMP A RAMP CLOSURE
TMP-7 TO TMP-11	COLE MILL ROAD RAMP B RAMP CLOSURE
TMP-12 TO TMP-13	COLE MILL ROAD RAMP C RAMP CLOSURE
TMP-14 TO TMP-16	COLE MILL RAMP ROAD D RAMP CLOSURE
TMP-17 TO TMP-20	NC-147 NB RAMP CLOSURE
TMP-21 TO TMP-25	NC-147 SB RAMP CLOSURE
TMP-26	I-85 NB AND SB BRIDGE REHABILITATION
TMP-27 TO TMP-28	NC-147 NB BRIDGE REHABILITATION
TMP-29 TO TMP-30	NC-147 SB BRIDGE RERHABILITATION
TMP-31 TO TMP-45	US 15-501 SB BRIDGE REHABILITATION

SHEET NO.
TMP-1

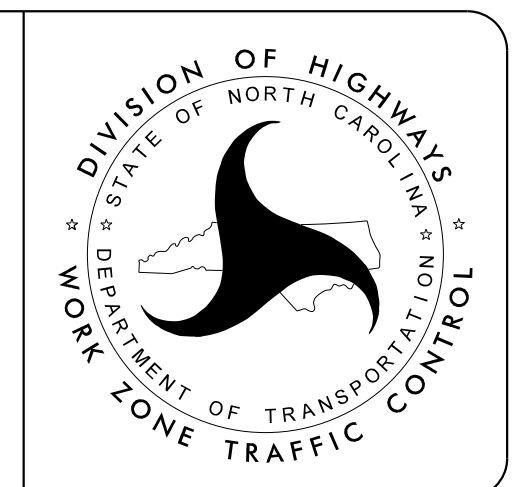
TIP PROJECT: I-594I

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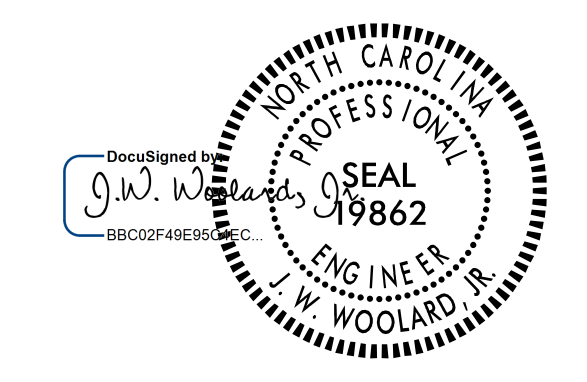


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ROADWAY STANDARD DRAWINGS

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

STD. NO.	TITLE
DIVISION 11 - WORK ZONE TRAFFIC CONTROL	
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
1115.01	FLASHING ARROW BOARDS
1130.01	DRUMS
1135.01	CONES
1145.01	BARRICADES
1165.01	TRUCK MOUNTED ATTENUATOR

DIVISION 12 - PAVEMENT MARKINGS, MARKERS AND DELINEATORS	
1205.01	PAVEMENT MARKINGS - LINE TYPES AND OFFSETS
1205.02	PAVEMENT MARKINGS - TWO-LANE AND MULTI-LANE ROADWAYS
1205.03	PAVEMENT MARKINGS - EXIT AND ENTRANCE RAMPS
1205.04	PAVEMENT MARKINGS - INTERSECTIONS
1205.05	PAVEMENT MARKINGS - TURN LANES
1205.06	PAVEMENT MARKINGS - LANE DROPS
1205.07	PAVEMENT MARKINGS - PEDESTRIAN CROSSWALKS
1205.12	PAVEMENT MARKINGS - BRIDGES
1250.01	PAVEMENT MARKER INSTALLATION SPACING
1251.01	RAISED PAVEMENT MARKERS - PERMANENT AND TEMPORARY
1261.01	GUARDRAIL AND BARRIER DELINEATORS - INSTALLATION SPACING
1261.02	GUARDRAIL AND BARRIER DELINEATORS - TYPES AND MOUNTING
1262.01	GUARDRAIL END DELINEATION
1264.01	OBJECT MARKERS - TYPES
1264.02	OBJECT MARKERS - INSTALLATION
1266.01	RAISED PAVEMENT MARKERS - TUBULAR MARKERS

LEGEND

GENERAL

- DIRECTION OF TRAFFIC FLOW
- EXIST. PVMT.
- PROPOSED PVMT.
- NORTH ARROW
- TEMP. SHORING (LOCATION PURPOSES ONLY)
- WORK AREA
- PREVIOUSLY STARTED / CONCURRENT CONSTRUCTION
- PAVEMENT REMOVAL
- TEMPORARY PAVEMENT
- TEMPORARY PAVEMENT ASPHALT PAD
- TEMPORARY PAVEMENT BREAKDOWN LANE

PAVEMENT MARKINGS

- | TEMPORARY MARKINGS | PREVIOUSLY PLACED | |
|--------------------|-------------------|---------------------|
| | | EXISTING LINES |
| | | WHITE EDGE LINE |
| | | YELLOW EDGE LINE |
| | | BROKEN LANE LINES |
| | | MINISKIP LANE LINES |
| | | DOUBLE YELLOW LINES |
| | | GORELINE |
| | | STOP BAR |

PAVEMENT MARKING SYMBOLS

- EXISTING PAVEMENT MARKING SYMBOLS (HOLLOW)
- PAVEMENT MARKING SYMBOLS
- PAVEMENT MARKING ALPHANUMERIC CHARACTERS

TRAFFIC CONTROL DEVICES

- | TEMPORARY DEVICES | PREVIOUSLY PLACED | |
|-------------------|-------------------|-----------------------------------|
| | | BARRICADE (TYPE III) |
| | | CONE |
| | | DRUM |
| | | FLASHING ARROW BOARD |
| | | FLAGGER |
| | | LAW ENFORCEMENT |
| | | TRUCK MOUNTED ATTENUATOR (TMA) |
| | | CHANGEABLE MESSAGE SIGN |
| | | TEMPORARY CRASH CUSHION |
| | | TEMPORARY CRASH CUSHION RESET |
| | | PORTABLE CONCRETE BARRIER |
| | | PORTABLE CONCRETE BARRIER (RESET) |
| | | ANCHORED CONCRETE BARRIER |
| | | ANCHORED CONCRETE BARRIER (RESET) |

SIGNALS

- | EXISTING | PROPOSED | TEMPORARY |
|----------|----------|-----------|
| | | |

TEMPORARY SIGNING

- | TEMPORARY SIGNS | PREVIOUSLY PLACED | |
|-----------------|-------------------|-----------------------------|
| | | PORTABLE SIGN |
| | | STATIONARY SIGN |
| | | STATIONARY OR PORTABLE SIGN |

PAVEMENT MARKERS

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

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GENERAL NOTES

PROJ. REFERENCE NO. I-5941	SHEET NO. TMP-2
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CHANGES MAY BE REQUIRED WHEN PHYSICAL DIMENSIONS IN THE DETAIL DRAWINGS, STANDARD DETAILS, AND ROADWAY DETAILS ARE NOT ATTAINABLE TO MEET FIELD CONDITIONS OR RESULT IN DUPLICATE OR UNDESIRE OVERLAPPING OF DEVICES. MODIFICATION MAY INCLUDE: MOVING, SUPPLEMENTING, COVERING, OR REMOVAL OF DEVICES AS DIRECTED BY THE ENGINEER.

THE FOLLOWING GENERAL NOTES APPLY AT ALL TIMES FOR THE DURATION OF THE CONSTRUCTION PROJECT EXCEPT WHEN OTHERWISE NOTED IN THE PLAN OR DIRECTED BY THE ENGINEER.

TIME RESTRICTIONS

A) DO NOT CLOSE OR NARROW TRAVEL LANES AS FOLLOWS:

ROAD NAME	DAY AND TIME RESTRICTIONS
I-85 INCLUDING RAMPS, NC-147, US 15/501	6:00 A.M. TO 8:00 P.M. MONDAY THRU FRIDAY 8:00 A.M. TO 8:00 P.M. SATURDAY AND SUNDAY
US 70 BUS (HILLSBOROUGH RD), SR 1401 (COLE MILL RD), SR 1493 (CROASDAILE DR)	6:00 A.M. TO 9:00 A.M. MONDAY THRU FRIDAY 4:00 P.M. TO 6:00 P.M. MONDAY THRU FRIDAY

DO NOT CLOSE OR NARROW TWO (2) OR MORE LANES OF TRAFFIC AS FOLLOWS:

ROAD NAME	DAY AND TIME RESTRICTIONS
I-85 AND US 15/501	6:00 A.M. TO 10:00 P.M. MONDAY THROUGH FRIDAY 8:00 A.M. TO 10:00 P.M. SATURDAY AND SUNDAY

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

ROAD NAME
I-85 INCLUDING RAMPS, NC-147, US 15/501

HOLIDAY

- 1) FOR ANY UNEXPECTED OCCURRENCE THAT CREATES UNUSUALLY HIGH TRAFFIC VOLUMES, AS DIRECTED BY THE ENGINEER.
- 2) FOR NEW YEAR'S, BETWEEN THE HOURS OF 6:00 A.M. DECEMBER 31ST TO 8:00 P.M. JANUARY 2ND. IF NEW YEAR'S DAY IS ON A FRIDAY, SATURDAY, SUNDAY, OR MONDAY THEN UNTIL 8:00 P.M. THE FOLLOWING TUESDAY.
- 3) FOR EASTER, BETWEEN THE HOURS OF 6:00 A.M. THURSDAY AND 8:00 P.M. MONDAY.
- 4) FOR MEMORIAL DAY, BETWEEN THE HOURS OF 6:00 A.M. FRIDAY TO 8:00 P.M. TUESDAY.
- 5) FOR INDEPENDENCE DAY, BETWEEN THE HOURS OF 6:00 A.M. THE DAY BEFORE INDEPENDENCE DAY AND 8:00 P.M. THE DAY AFTER INDEPENDENCE DAY. IF INDEPENDENCE DAY IS ON A FRIDAY, SATURDAY, SUNDAY OR MONDAY; THEN BETWEEN THE HOURS OF 6:00 A.M. THE THURSDAY BEFORE INDEPENDENCE DAY AND 8:00 P.M. THE TUESDAY AFTER INDEPENDENCE DAY.
- 6) FOR LABOR DAY, BETWEEN THE HOURS OF 6:00 A.M. FRIDAY AND 8:00 P.M. TUESDAY.
- 7) FOR THANKSGIVING DAY, BETWEEN THE HOURS OF 6:00 A.M. TUESDAY TO 8:00 P.M. MONDAY.
- 8) FOR CHRISTMAS, BETWEEN THE HOURS OF 6:00 A.M. THE FRIDAY BEFORE THE WEEK OF CHRISTMAS DAY AND 8:00 P.M. THE FOLLOWING TUESDAY AFTER THE WEEK OF CHRISTMAS.
- 9) FOR THE FOLLOWING EVENTS AT DUKE UNIVERSITY, BETWEEN TWO (2) HOURS BEFORE THE START OF THE EVENT AND TWO (2) HOURS AFTER THE END OF THE EVENT:
 - GRADUATION
 - FOOTBALL GAMES
 - MEN'S BASKETBALL GAMES
 - WOMEN'S BASKETBALL GAMES


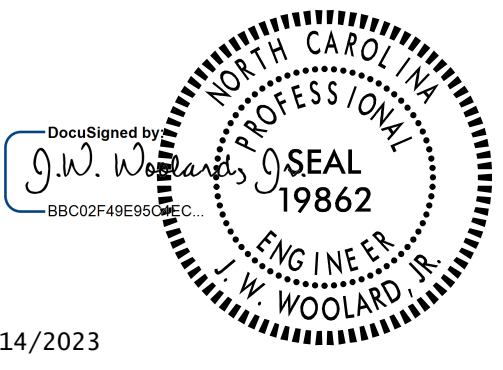
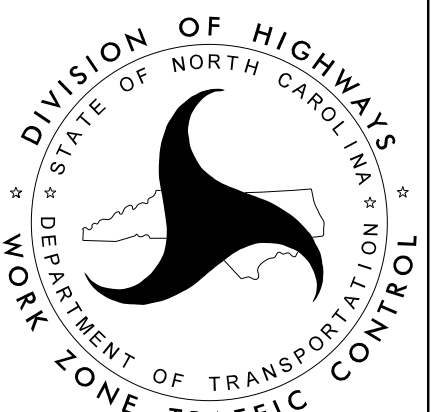
C) DO NOT CLOSE ROADS AS FOLLOWS:

ROAD NAME	DAY AND TIME RESTRICTIONS
I-85 NB OVER COLE MILL RD I-85 SB OVER COLE MILL RD	5:00 A.M. TO 12 MIDNIGHT MONDAY TO SUNDAY
-CMRAMPA-, -CMRAMPB-, -CMRAMPC-, -CMRAMPD-, -CMSPURB-, -CMSPURD-, Hillandale Rd Ramp B, NC 147 NB at I-85, NC 147 SB at I-85	6:00 A.M. TO 8:00 P.M. MONDAY THRU FRIDAY 8:00 A.M. TO 8:00 P.M. SATURDAY AND SUNDAY

LANE AND SHOULDER CLOSURE REQUIREMENTS

- D) REMOVE LANE CLOSURE DEVICES FROM THE LANE WHEN WORK IS NOT BEING PERFORMED BEHIND THE LANE CLOSURE OR WHEN A LANE CLOSURE IS NO LONGER NEEDED OR AS DIRECTED BY THE ENGINEER.
- E) WHEN PERSONNEL AND/OR EQUIPMENT ARE WORKING WITHIN 15 FT OF AN OPEN TRAVEL LANE, CLOSE THE NEAREST OPEN SHOULDER USING ROADWAY STANDARD DRAWING NO. 1101.04 UNLESS THE WORK AREA IS PROTECTED BY BARRIER OR GUARDRAIL OR A LANE CLOSURE IS INSTALLED.
- F) WHEN PERSONNEL AND/OR EQUIPMENT ARE WORKING 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.
- G) WHEN PERSONNEL AND/OR EQUIPMENT ARE WORKING ON THE SHOULDER ADJACENT TO A DIVIDED FACILITY AND WITHIN 10 FT OF AN OPEN TRAVEL LANE, CLOSE THE NEAREST OPEN TRAVEL LANE USING ROADWAY STANDARD DRAWING NO. 1101.02 UNLESS THE WORK AREA IS PROTECTED BY BARRIER OR GUARDRAIL.
- H) DO NOT WORK SIMULTANEOUSLY WITHIN 15 FT ON BOTH SIDES OF AN OPEN TRAVELWAY, RAMP, OR LOOP WITHIN THE SAME LOCATION UNLESS PROTECTED WITH GUARDRAIL OR BARRIER.
- I) DO NOT INSTALL MORE THAN TWO (2) MILES OF LANE CLOSURE ON I-85 MEASURED FROM THE BEGINNING OF THE MERGE TAPER TO THE END OF THE LANE CLOSURE.
- J) DO NOT INSTALL MORE THAN ONE LANE CLOSURE IN ANY ONE DIRECTION ON I-85.

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GENERAL NOTES (CONT'D)

PROJ. REFERENCE NO.	SHEET NO.
I-5941	TMP-2A

PAVEMENT EDGE DROP OFF REQUIREMENTS

K) BACKFILL AT A 6:1 SLOPE UP TO THE EDGE AND ELEVATION OF EXISTING PAVEMENT IN AREAS ADJACENT TO AN OPEN TRAVEL LANE THAT HAS A 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.

L) 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 ONCE EVERY HALF MILE THROUGHOUT THE UNEVEN AREA.

TRAFFIC PATTERN ALTERATIONS

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

NOTIFY THE ENGINEER 15 CONSECUTIVE CALENDAR DAYS BEFORE RESURFACING A BRIDGE OR ITS APPROACHES.

NOTIFY THE ENGINEER 48 HOURS BEFORE MILLING OR RESURFACING WILL INTERFERE WITH THE EXISTING SIGNAL LOOPS. LOOPS MAY NEED TO BE PLACED IN MILLED SURFACE BEFORE RESURFACING OCCURS. COORDINATE ALL SIGNAL LOOP OPERATIONS WITH THE ENGINEER.

SIGNING

N) 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.

O) PROVIDE SIGNING AND DEVICES REQUIRED TO CLOSE THE ROAD ACCORDING TO THE ROADWAY STANDARD DRAWINGS AND TRANSPORTATION MANAGEMENT PLANS.

AND

PROVIDE SIGNING REQUIRED FOR THE OFF-SITE DETOUR ROUTE AS SHOWN IN THE TRANSPORTATION MANAGEMENT PLANS.

P) 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.

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

TRAFFIC CONTROL DEVICES

R) WHEN LANE CLOSURES ARE NOT IN EFFECT SPACE CHANNELIZING DEVICES IN WORK AREAS NO GREATER IN FEET THAN TWICE THE POSTED SPEED LIMIT (MPH), EXCEPT 10 FT ON-CENTER IN RADII, AND 3 FT OFF THE EDGE OF AN OPEN TRAVELWAY. REFER TO STANDARD SPECIFICATIONS FOR ROADS AND STRUCTURES SECTIONS 1130 (DRUMS), 1135 (CONES) AND 1180 (SKINNY DRUMS) FOR ADDITIONAL REQUIREMENTS.

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

T) PLACE ADDITIONAL SETS OF THREE CHANNELIZING DEVICES (DRUMS, CONES OR SKINNY DRUMS) PERPENDICULAR TO THE EDGE OF TRAVELWAY ON 500 FT CENTERS WHEN UNOPENED LANES ARE CLOSED TO TRAFFIC.

PAVEMENT MARKINGS AND MARKERS

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

ROAD NAME	MARKING	MARKER
ALL ROADS	PAINT	TEMPORARY RAISED
BRIDGES	PAINT	TEMPORARY RAISED

V) 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.

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

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

MISCELLANEOUS


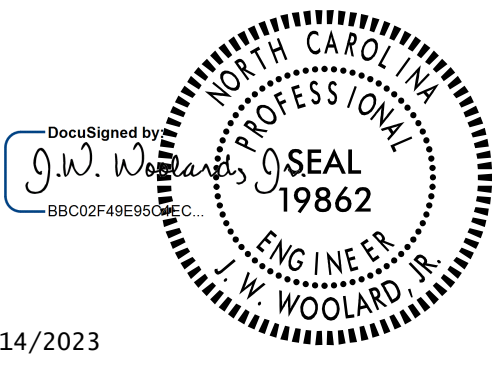
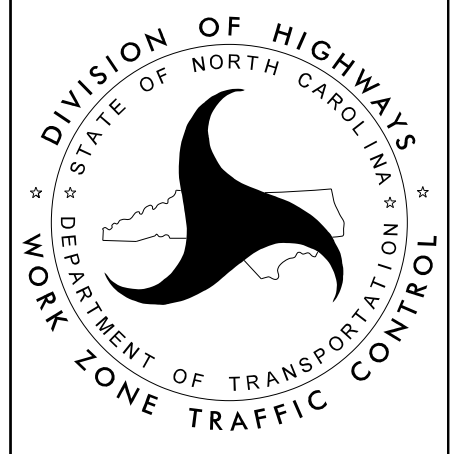
Y) USE LAW ENFORCEMENT TO MAINTAIN TRAFFIC THROUGH THE WORK AREA AND OR INTERSECTIONS AS SHOWN IN PLANS OR DIRECTED BY THE ENGINEER.

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

AA) ALL DIMENSIONS AND STATIONS IN THE TRANSPORTATION MANAGEMENT PLAN AND PHASING ARE APPROXIMATE (+/-); FIELD ADJUST AS NECESSARY OR AS DIRECTED BY THE ENGINEER.

BB) CHANGEABLE MESSAGE SIGN MESSAGES SHOWN ARE EXAMPLES. OTHER MESSAGES MAY BE USED AS CONDITIONS WARRANT. ALL MESSAGES AND LOCATIONS MUST BE APPROVED BY THE ENGINEER PRIOR TO INCORPORATING.

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PROJECT PHASING

BRIDGE PRESERVATION PHASING

PROJ. REFERENCE NO.	SHEET NO.
I-5941	TMP-2B

NOTE: USE IN CONJUNCTION WITH PROJECT PHASING STEPS 2 AND 4

STEP 1:

PRIOR TO ANY WORK OPERATIONS, INSTALL WORK ZONE ADVANCE WARNING SIGNS ON I-85 NB AND SB, NC 147, CMRAMPA, CMRAMPB, CMRAMPC, CMRAMPD, COLE MILL RD, AND US 15-501 SB. SEE RSD 1101.01.

NOTE: STEPS 2, 3 AND 4 MAY BE DONE CONCURRENTLY

STEP 2:

CONTRACTOR MAY BEGIN ALL BRIDGE PRESERVATION WORK. SEE BRIDGE PRESERVATION PHASING.

I-85 NB AND SB MILLING AND RESURFACING

- A- USING RSD 1101.02, SHEETS 4, 8, AND 9 MILL AND RESURFACE ALL LANES (1, 2, AND 3) OF I-85 NB AND SB UP TO, BUT NOT INCLUDING ULTRA THIN BONDED WEARING COURSE. RESURFACE LANE 3 OF I-85 NB AND SB IN CONJUNCTION WITH STEP 3C.
- USING RSD 1101.02, SHEETS 4, 8, AND 9, INSTALL ALL OVERHEAD SIGNING OVERLAYS. SEE SIGNING PLANS.
- B- USING RSD 1101.02, SHEETS 4, 8, AND 9, INSTALL TEMPORARY PAVEMENT MARKINGS AND MARKERS.

STEP 3 (TMP-3 THRU TMP-25)

I-85 RAMPS NB AND SB MILLING AND RESURFACING

- A- INSTALL AND COVER ALL DETOUR SIGNS AND DEVICES FOR EACH RAMP AS NEEDED. (SEE TMP-3 TO TMP-3B)
- B- UNCOVER/ACTIVATE DETOUR ROUTE SIGNS AND DEVICES, CLOSE RAMP AND PLACE TRAFFIC ONTO DETOUR.
- C- AWAY FROM TRAFFIC, MILL AND RESURFACE UP TO, BUT NOT INCLUDING ULTRA THIN BONDED WEARING COURSE. INSTALL TEMPORARY PAVEMENT MARKINGS AND MARKERS.
- USING RSD 1101.02, SHEET 4, MILL AND RESURFACE UP TO, BUT NOT INCLUDING ULTRA THIN BONDED WEARING COURSE IN LANE 3 ADJACENT TO THE RAMP FROM 500 FT BEFORE/AFTER THE BEGINING/ENDING OF THE RAMP TO 500 FT BEFORE/AFTER THE BACK OF THE GORE. (SEE TMP-4 TO TMP-6 FOR -CMRAMPA-, TMP-7 TO TMP-11 FOR -CMRAMPB-, TMP-12 TO TMP-13 FOR -CMRAMPC-, TMP-14 TO TMP-16 FOR -CMRAMPD-, TMP-17 TO TMP-20 FOR NC 147 NB TIE TO I-85, AND TMP-21 TO TMP-25 FOR NC 147 SB TIE TO I-85) INSTALL TEMPORARY PAVEMENT MARKINGS AND MARKERS IN THE EXISTING PATTERN.

NOTE: USE RSD 1101.02, SHEET 3, ON COLE MILL RD TO CONSTRUCT RAMP MILLING AND RESURFACING, CROSSWALK AND SIDEWALK WORK WHILE RAMP TRAFFIC IS DETOURED. SEE RDY PLANS.

D- REOPEN RAMP TO TRAFFIC. COVER AND REMOVE ALL DETOUR ROUTE SIGNING/DEVICES.

STEP 4

COMPLETE ALL BRIDGE PRESERVATION WORK. SEE BRIDGE PRESERVATION PHASING.

STEP 5

FINAL WEARING SURFACE AND FINAL MARKINGS

USING RSD 1101.02, SHEETS 4, 8, 9 AND TMP-4 THRU TMP-25 INSTALL ULTRA THIN BONDED WEARING COURSE ON ALL LANES OF I-85 NB AND SB INCLUDING ALL RAMPS AND BRIDGES.

STEP 6

USING RSD 1101.02, SHEETS 4, 8, 9, AND 16 INSTALL FINAL PAVEMENT MARKINGS AND MARKERS ON ALL LANES OF I-85 NB AND SB INCLUDING ALL RAMPS AND BRIDGES.

STEP 7

REMOVE ALL TRAFFIC CONTROL DEVICES AND OPEN TO FINAL PATTERN

BRIDGE PRESERVATION WORK

PERFORM ALL BRIDGE REHAB WORK ON BRIDGES 429, 355, 108, 112, AND 135

NOTES
ALL BRIDGES MAY BE DONE CONCURRENTLY OR INDIVIDUALLY

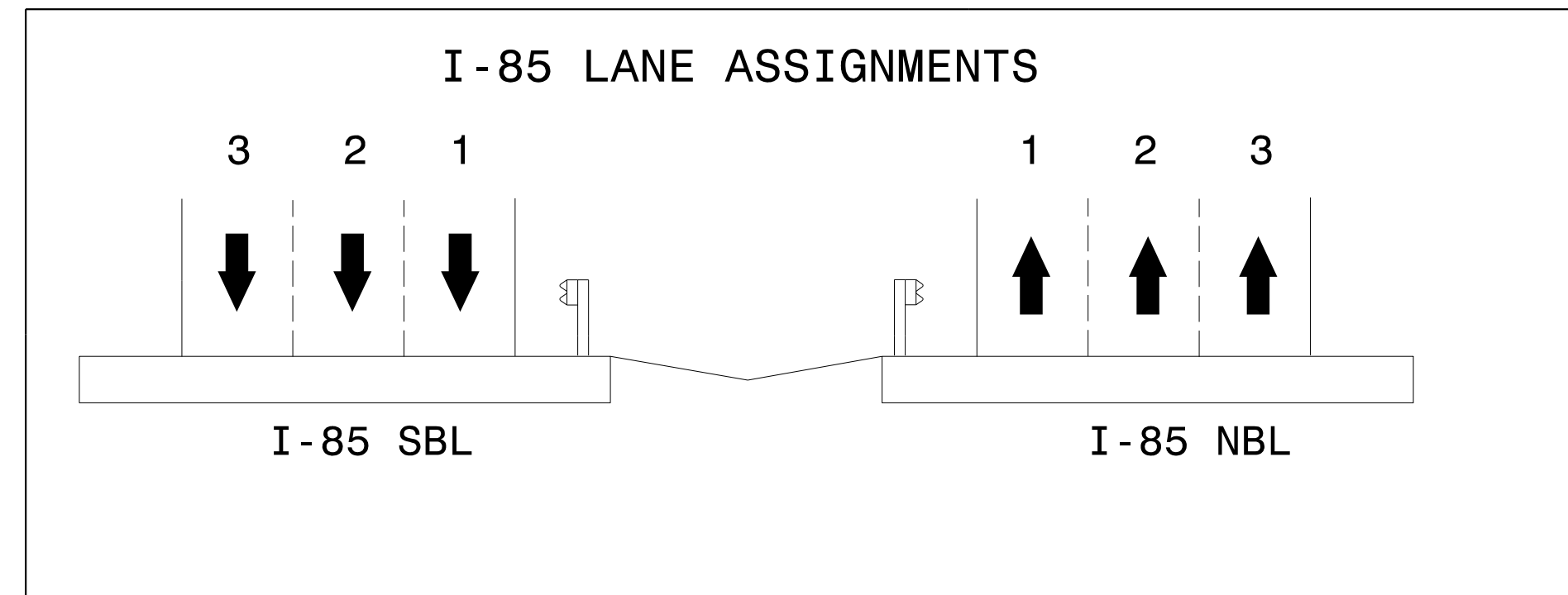
CONTRACTOR SHALL NOT CLOSE BRIDGES 429, 355, OR 135 TO PERFORM BRIDGE DECK REHABILITATION.

BRIDGE 429, 355, AND 135 REHABILITATION PHASING

- A- USING TMP-27 (BRIDGE 429 - NC 147 NB), OR TMP-29 (BRIDGE 355 - NC 147 SB), OR TMP-31 TO TMP-37 (BRIDGE 135 - US 15 - 501 SB), CLOSE OUTSIDE LEFT SIDE OF BRIDGE AND PLACE TRAFFIC IN THE INSIDE LANE.
- SANDBLAST OUTSIDE HALF OF BRIDGE AND OUTSIDE BARRIER RAIL.
- PLACE POLYMER CONCRETE OVERLAY ON OUTSIDE HALF OF THE BRIDGE AND GROOVE PC BRIDGE DECK. PLACE SILANE SEALER ON FRONT AND TOP SURFACES OF OUTSIDE BARRIER RAIL.
- REMOVE EXISTING JOINT MATERIAL AND INSTALL FOAM JOINT SEALS.
- B- USING TMP-28, (BRIDGE 429 - NC 147 NB), OR TMP-30 (BRIDGE 355 - NC 147 SB), OR TMP-38 TO TMP-45 (BRIDGE 135 - US 15-501 SB), CLOSE THE RIGHT SIDE OF BRIDGE AND PLACE TRAFFIC IN THE OUTSIDE LANE.
- SANDBLAST INSIDE HALF OF BRIDGE AND INSIDE BARRIER RAIL.
- PLACE POLYMER CONCRETE OVERLAY ON INTSIDE HALF OF THE BRIDGE AND GROOVE PC BRIDGE DECK. PLACE SILANE SEALER ON FRONT AND TOP SURFACES OF INSIDE BARRIER RAIL.
- REMOVE EXISTING JOINT MATERIAL AND INSTALL FOAM JOINT SEALS.
- C- USING RSD 1101.02, SHEET 4 AS NEEDED, PERFORM THE FOLLOWING:
- REMOVE DEBRIS FROM TOP OF EXISTING END BENT AND BENT CAPS AND APPLY EPOXY COATING
- INJECT EPOXY RESIN IN TO CONCRETE CRACKS AS SHOWN IN STRUCTURE PLANS
- REMOVE UNSOUND CONCRETE AND PROPERLY PREPARE EXISTING END BENT AND BENT AREAS FOR SHOTCRETE AND CONCRETE REPAIRS AS SHOWN IN THE STRUCTURE PLANS
- PROPERLY PREPARE SPALLED AREAS IN EXISTING END BENT AND BENTS AND PERFORM SHOTCRETE AND CONCRETE REPAIRS AS SHOWN IN THE STRUCTURE PLANS
- CLEAN AND PAINT EXISTING WEATHERING STEEL BEAM ENDS
- D- SEE STEP 5 IN PAVEMENT REHABILITATION PHASING UPON COMPLETION OF ALL BRIDGE PRESERVATION WORK

BRIDGE 108 AND 112 REHABILITATION PHASING

- A- CLOSE BRIDGE 108 OR 112 AND RUN TRAFFIC UP AND DOWN THE COLE MILL ROAD RAMPS AS SHOWN ON TMP-26.
- SANDBLAST BRIDGE DECK AND BARRIER RAILS.
- PLACE POLYMER CONCRETE OVERLAY ON THE BRIDGE DECK AND GROOVE PC BRIDGE DECK. PLACE SILANE SEALER ON FRONT AND TOP SURFACES OF THE BARRIER RAILS.
- REMOVE EXISTING JOINT MATERIAL AND INSTALL FOAM JOINT SEALS.
- PLACE TEMPORARY PAVEMENT MARKINGS AND MARKERS.
- B- REMOVE TRAFFIC CONTROL DEVICES AND OPEN BRIDGE 108 OR 112 TO TRAFFIC.
- C- USING RSD 1101.02, SHEET 4 AS NEEDED ON COLE MILL ROAD, PERFORM THE FOLLOWING:
- REMOVE DEBRIS FROM TOP OF EXISTING END BENT AND BENT CAPS AND APPLY EPOXY COATING
- INJECT EPOXY RESIN IN TO CONCRETE CRACKS AS SHOWN IN STRUCTURE PLANS
- REMOVE UNSOUND CONCRETE AND PROPERLY PREPARE EXISTING END BENT AND BENT AREAS FOR SHOTCRETE AND CONCRETE REPAIRS AS SHOWN IN THE STRUCTURE PLANS
- PROPERLY PREPARE SPALLED AREAS IN EXISTING END BENT AND BENTS AND PERFORM SHOTCRETE AND CONCRETE REPAIRS AS SHOWN IN THE STRUCTURE PLANS.
- CLEAN AND PAINT EXISTING WEATHERING STEEL BEAM ENDS.
- D- SEE STEP 5 IN PAVEMENT REHABILITATION PHASING UPON COMPLETION OF ALL BRIDGE PRESERVATION WORK



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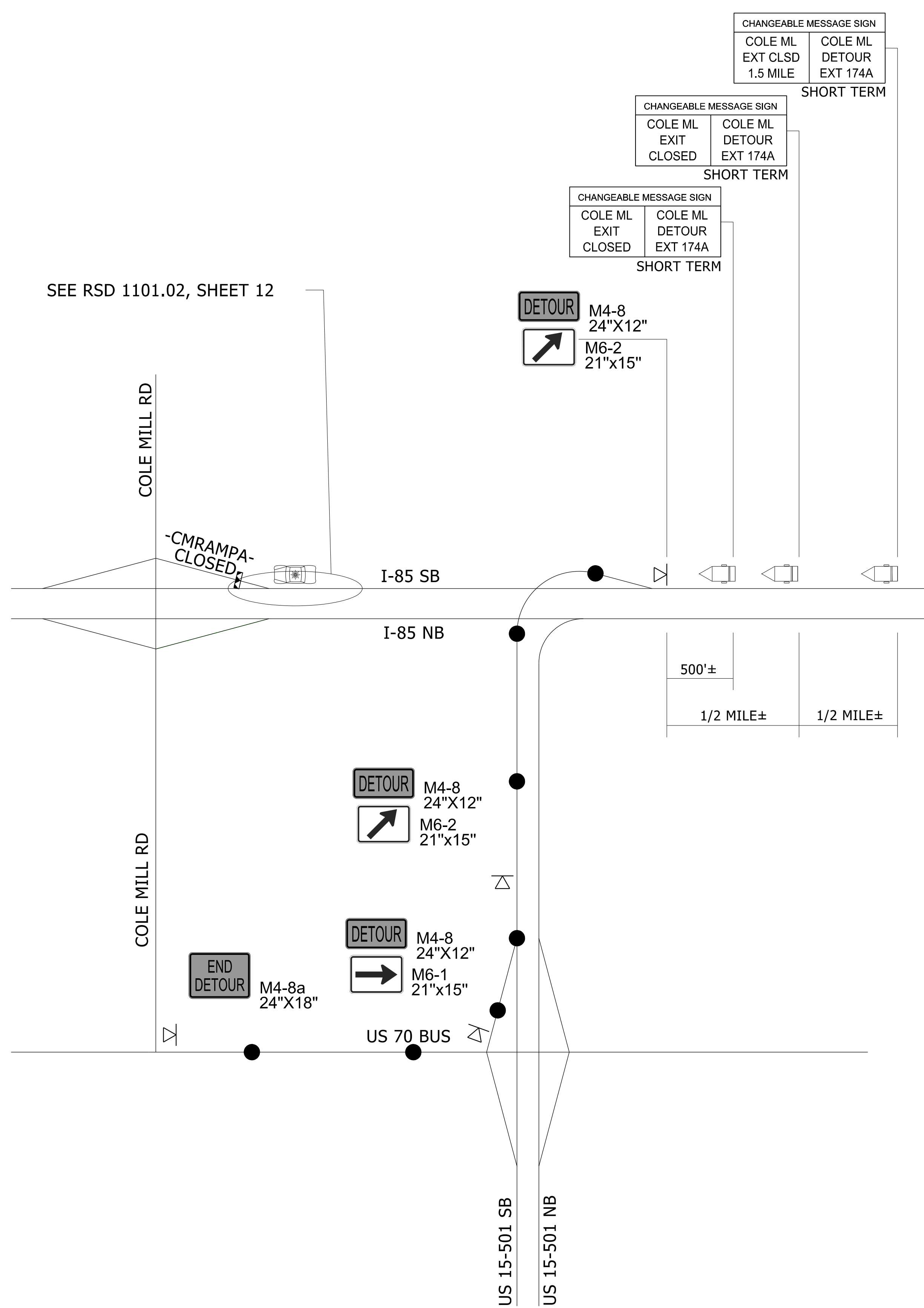
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DIVISION OF HIGHWAYS
DEPARTMENT OF TRANSPORTATION
WORK ZONE TRAFFIC CONTROL

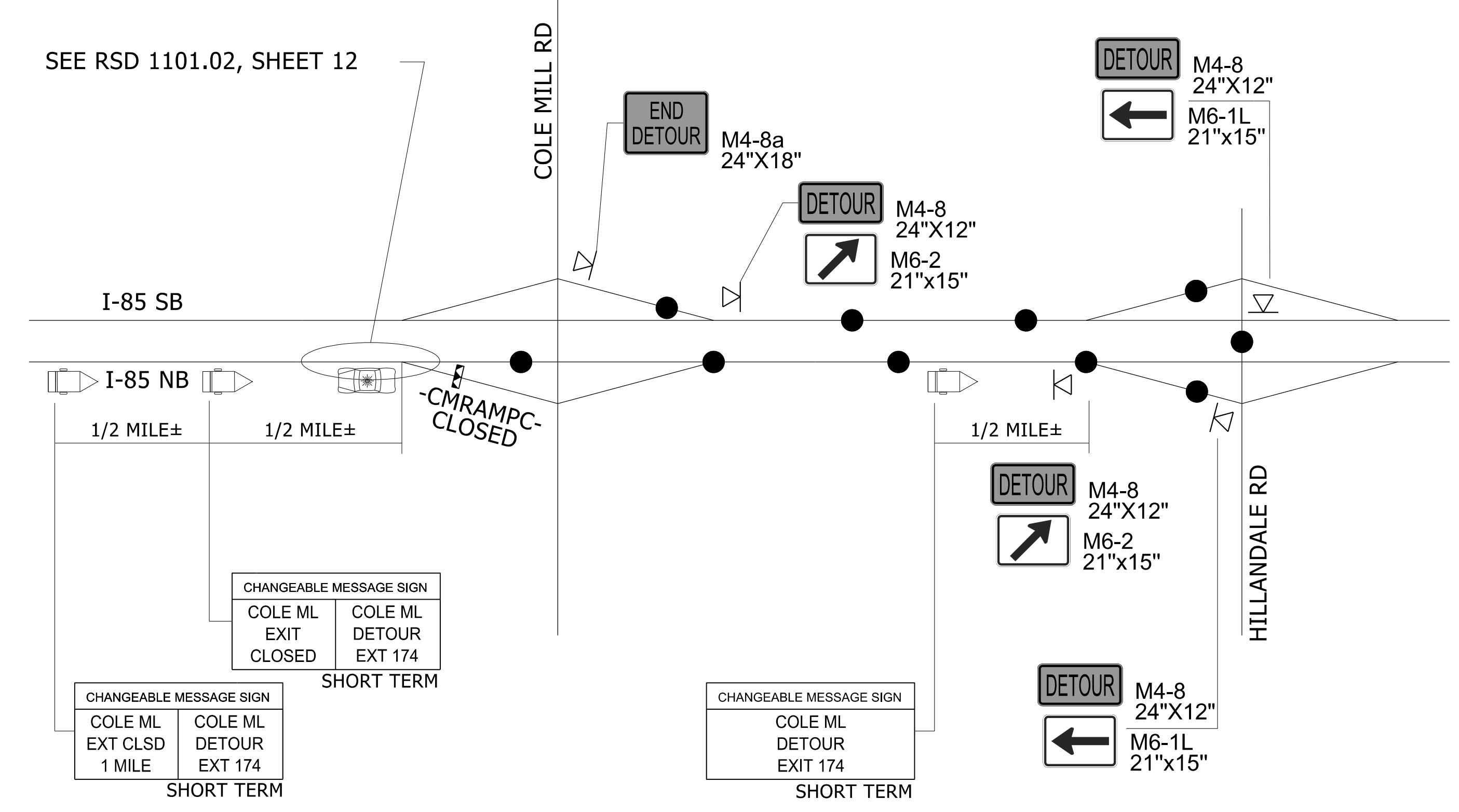
PHASING

DETOUR FOR RAMP -CMRAMPA- FROM I-85 SB

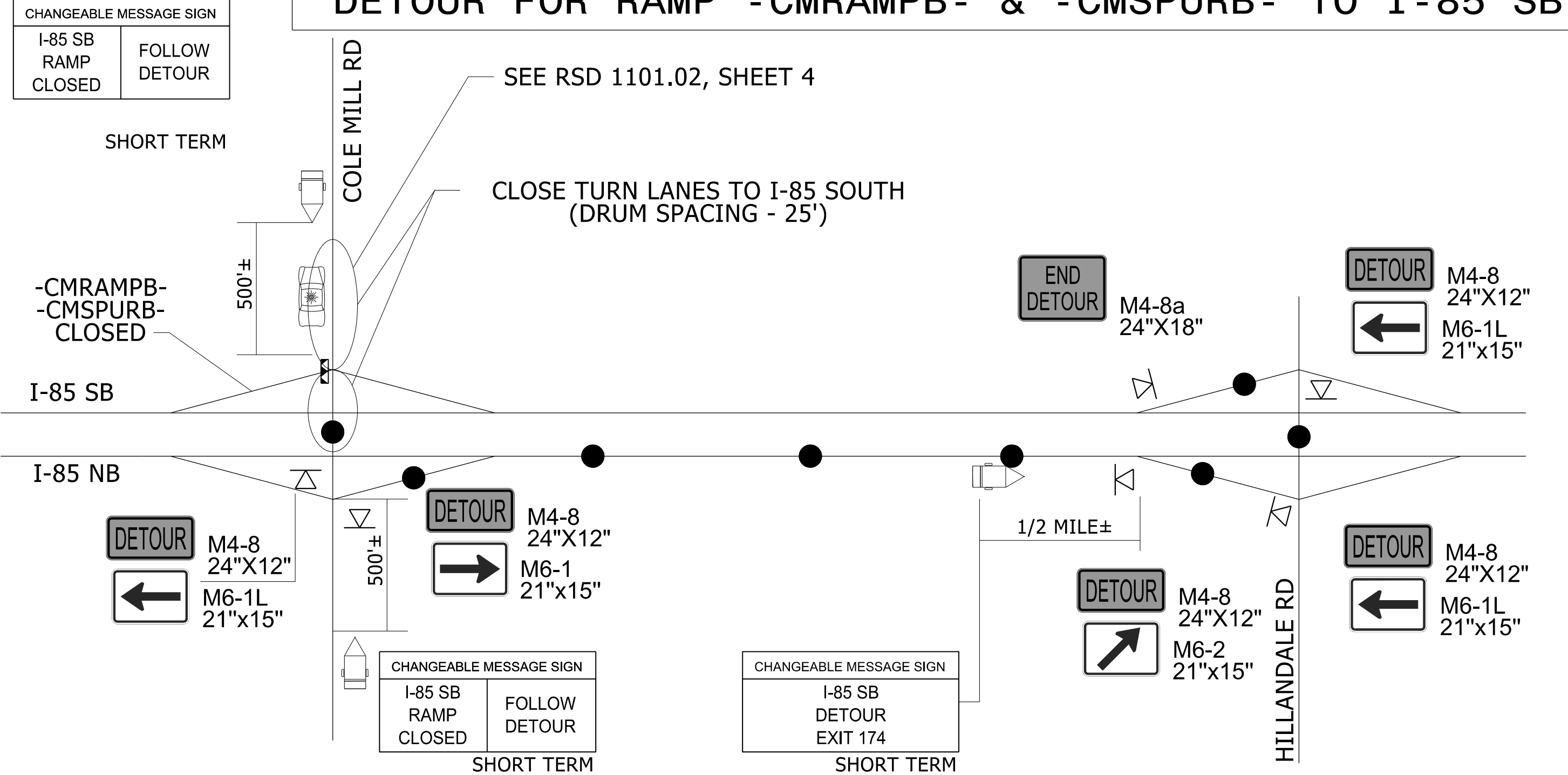


DETOUR FOR RAMP -CMRAMPC- FROM I-85 NB

PROJ. REFERENCE NO. I-5941 SHEET NO. TMP-3



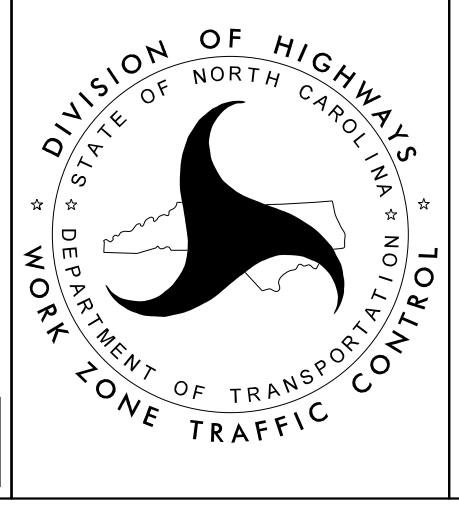
DETOUR FOR RAMP -CMRAMPB- & -CMSPURB- TO I-85 SB



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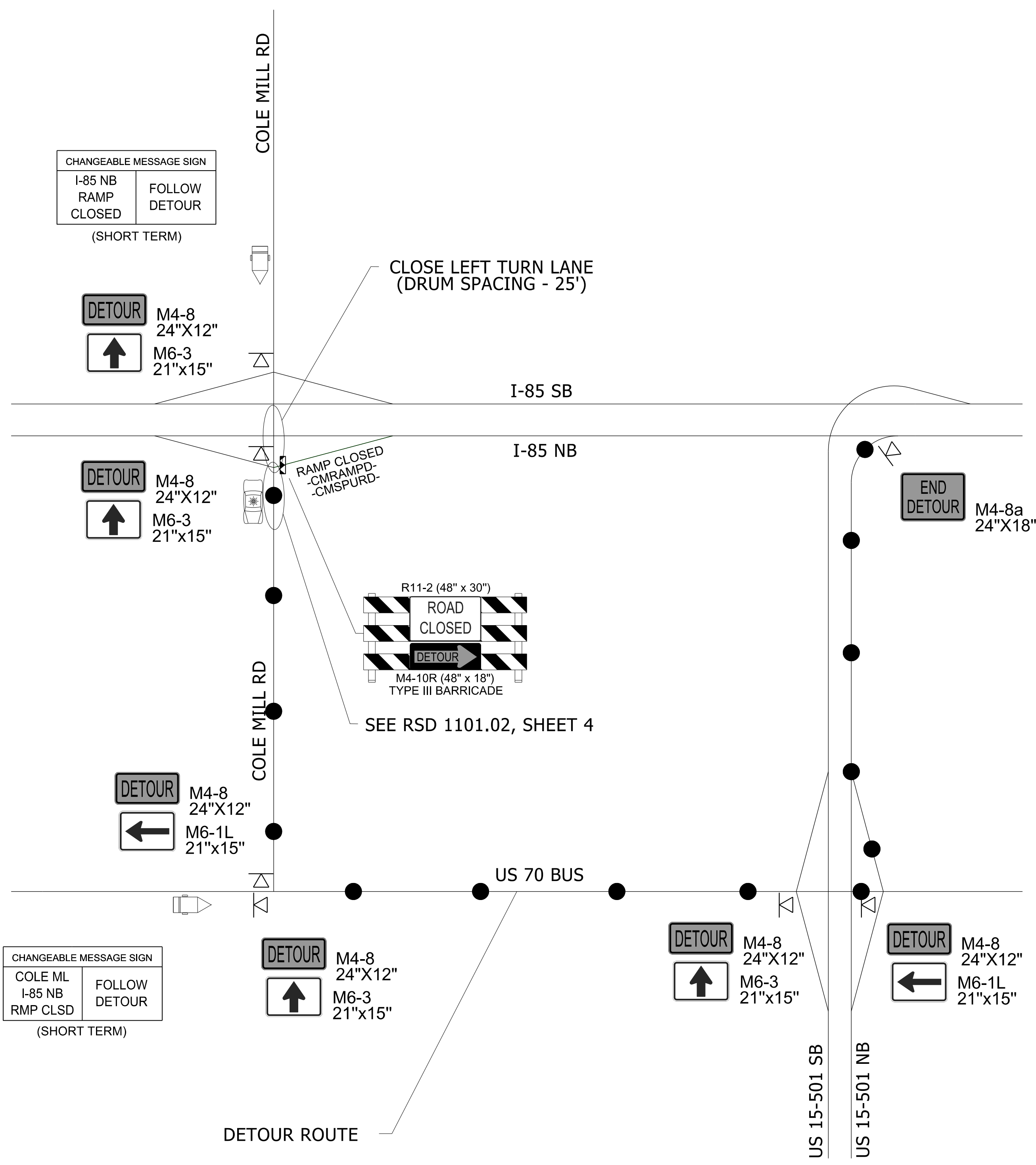
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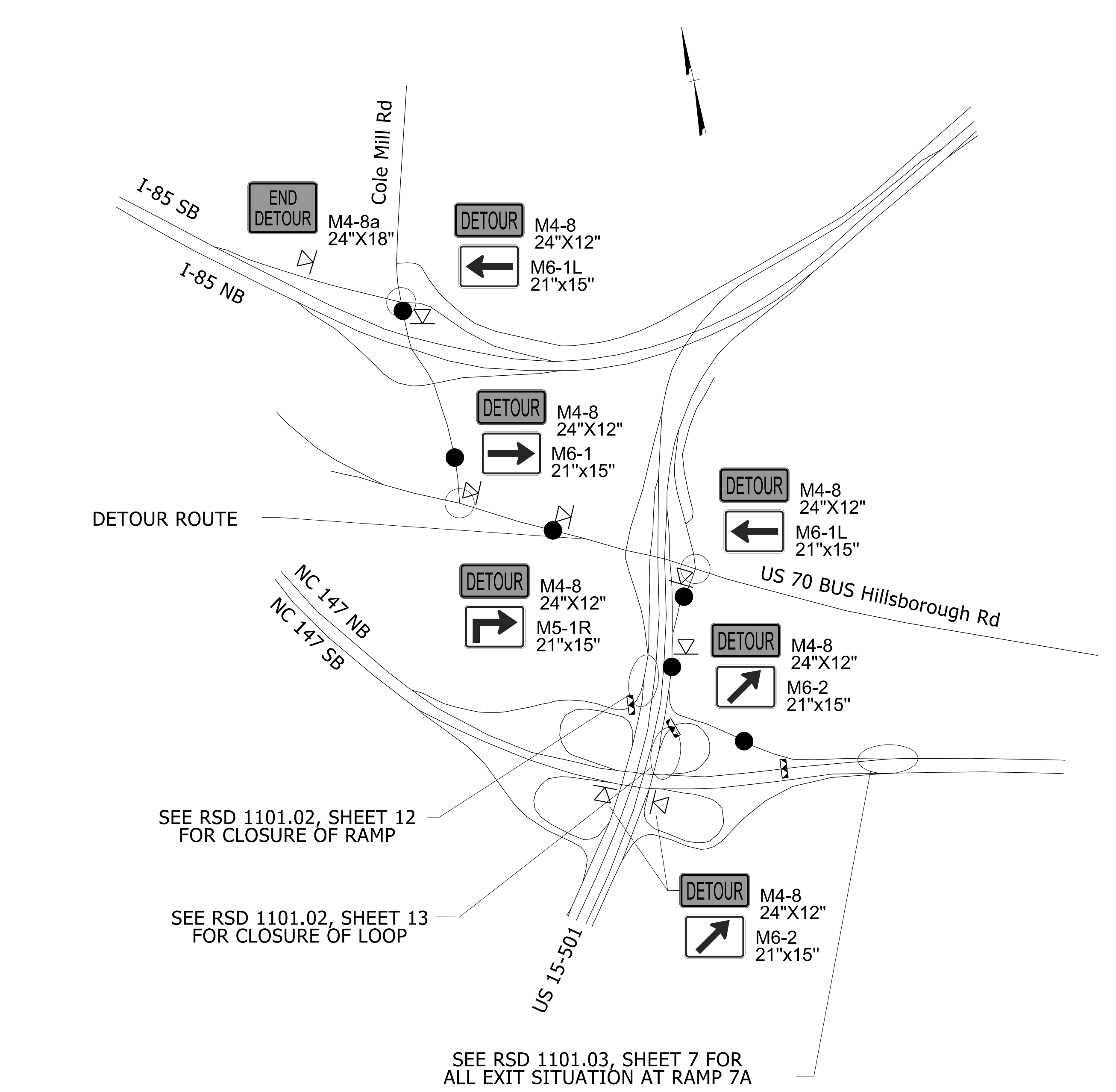
DEPARTMENT OF TRANSPORTATION
 WORK ZONE TRAFFIC CONTROL

COLE MILL ROAD
 RAMP A, RAMP B, RAMP C
 DETOUR ROUTES

DETOUR FOR RAMP -CMRAMPD- AND -CMSPURD- TO I-85 NB



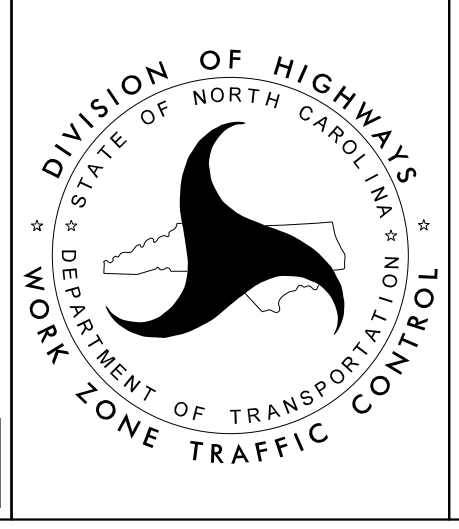
DETOUR FOR RAMP NC 147 NB TO I-85 SB



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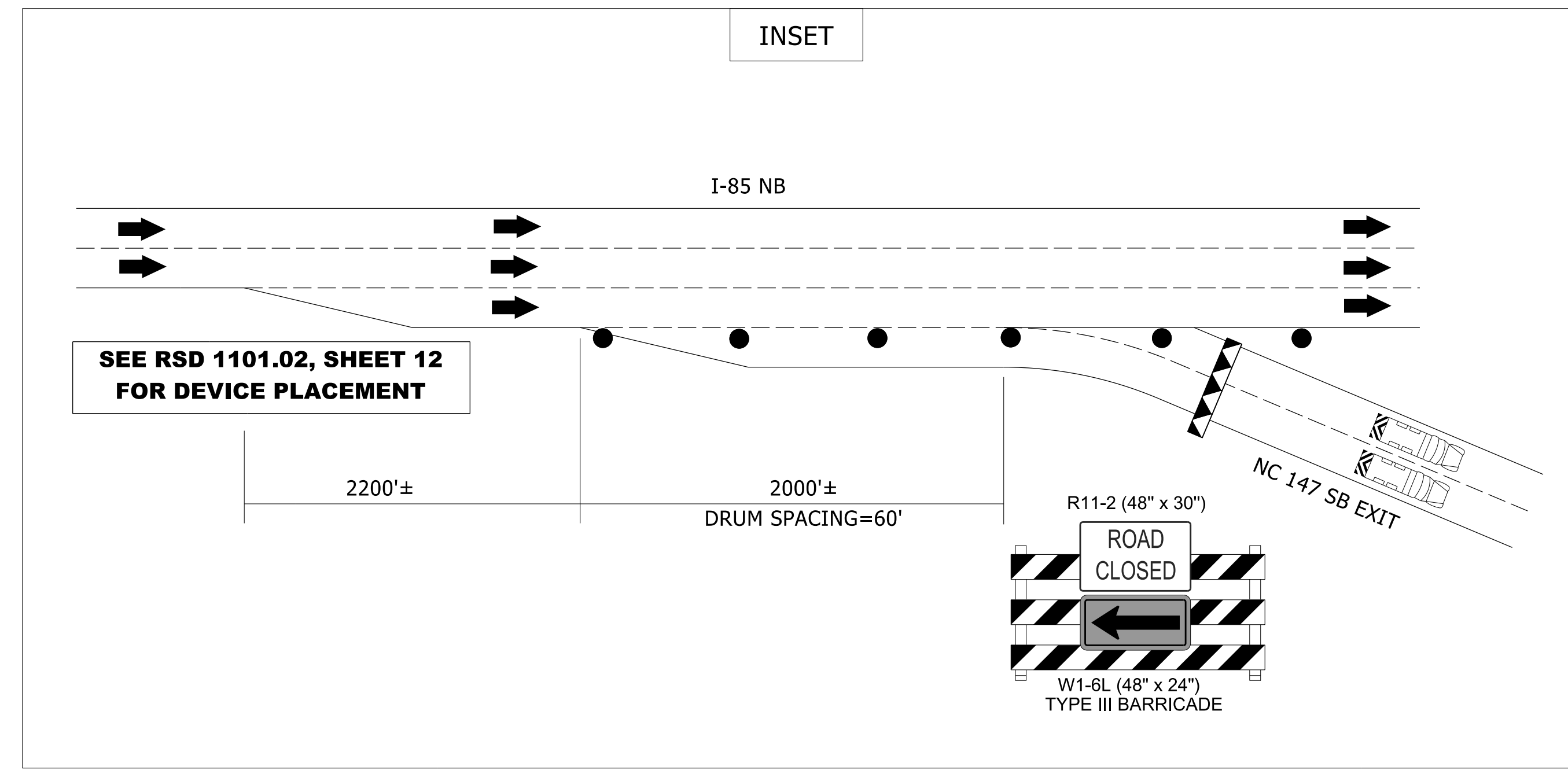
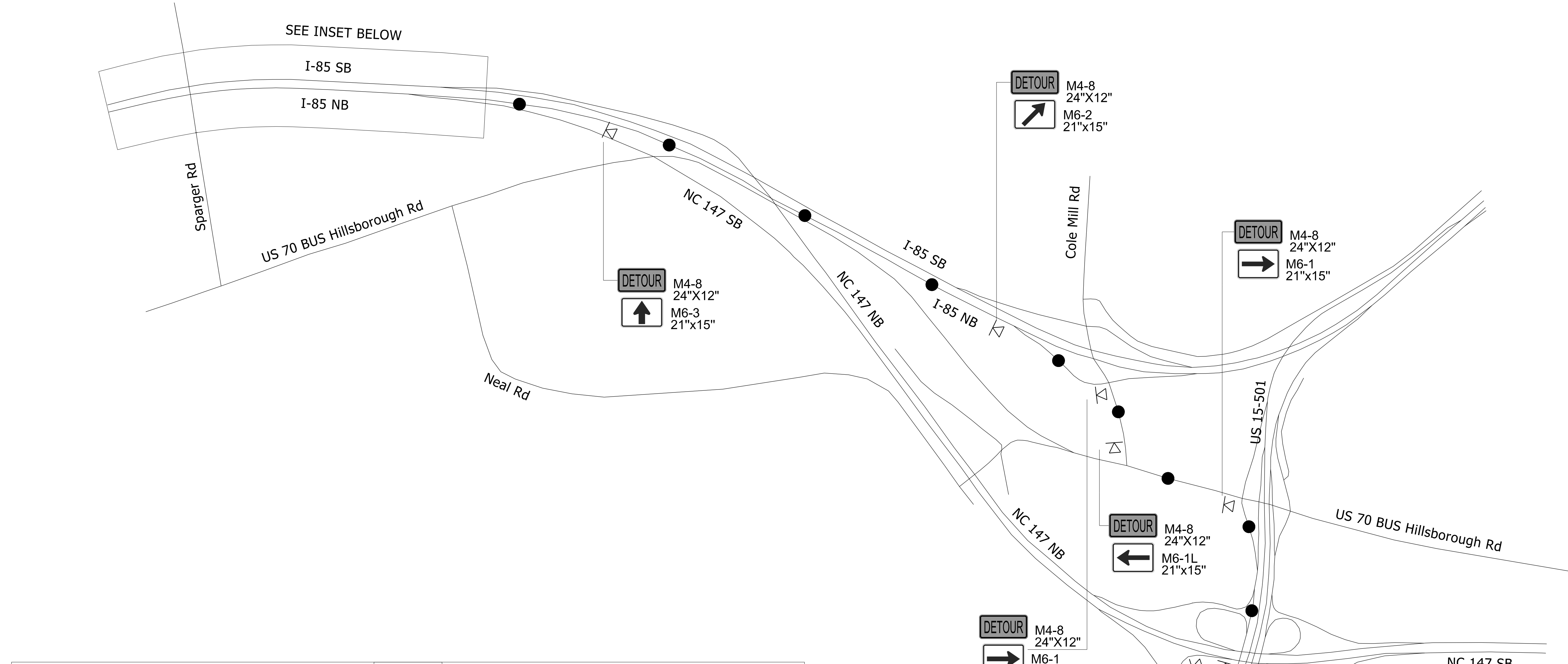
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**COLE MILL ROAD RAMP D,
 NC-147 NORTHBOUND
 DETOUR ROUTES**

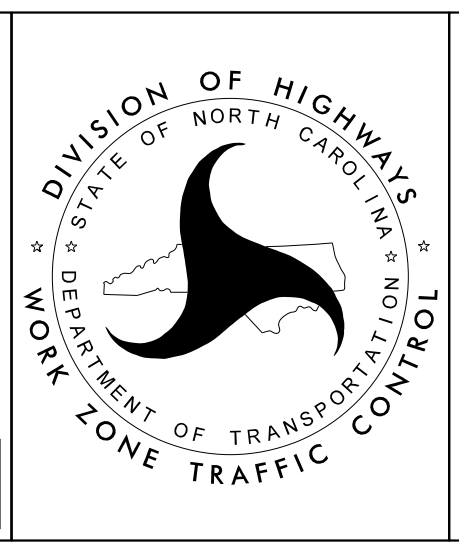
DETOUR FOR RAMP TO NC 147 SB FROM I-85 NB



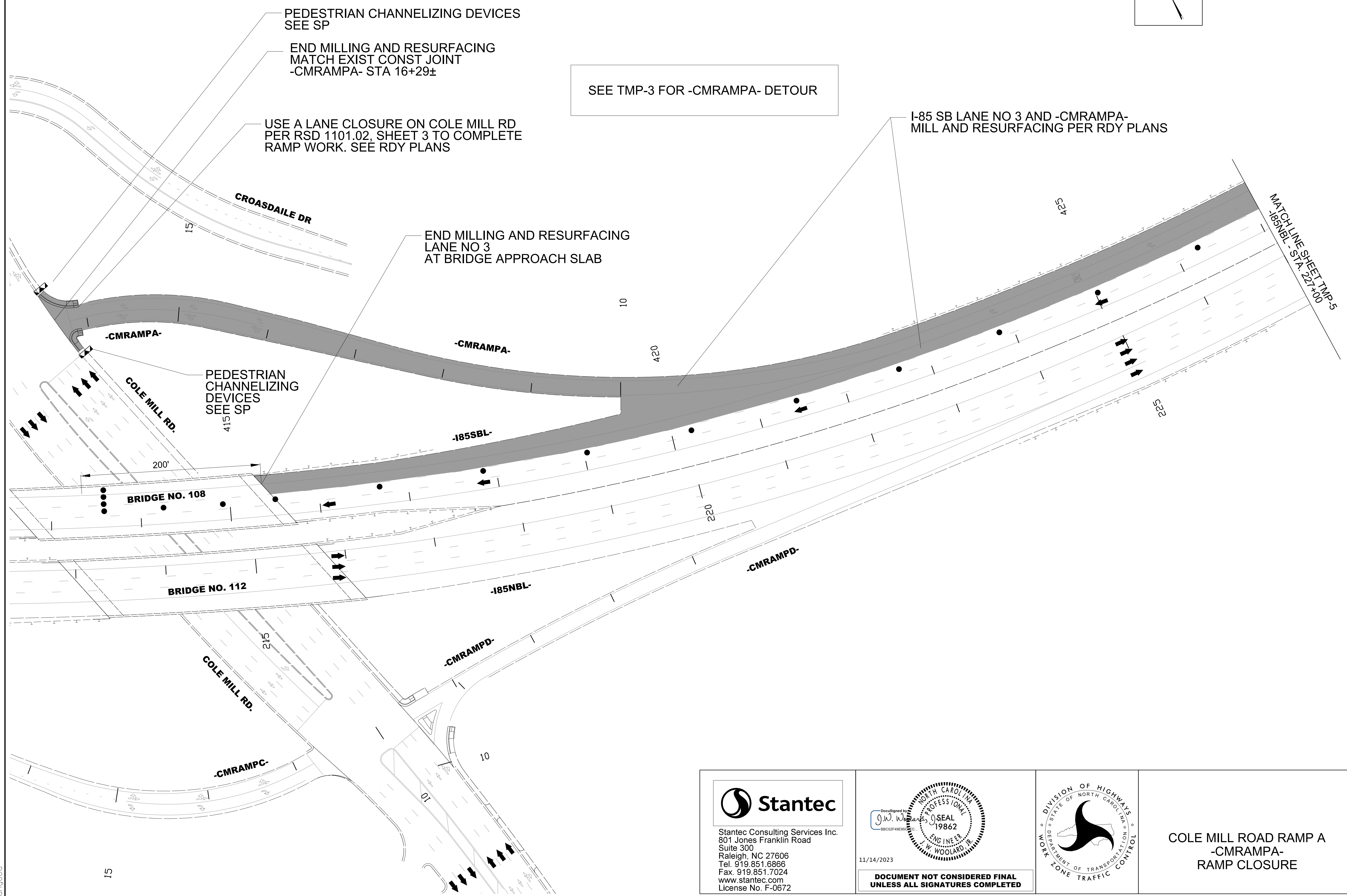
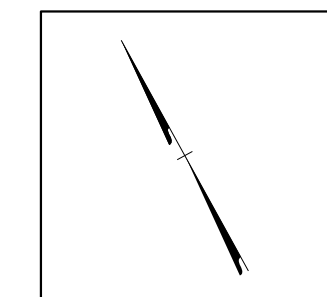
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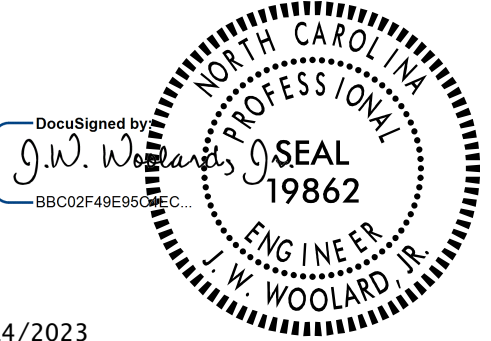


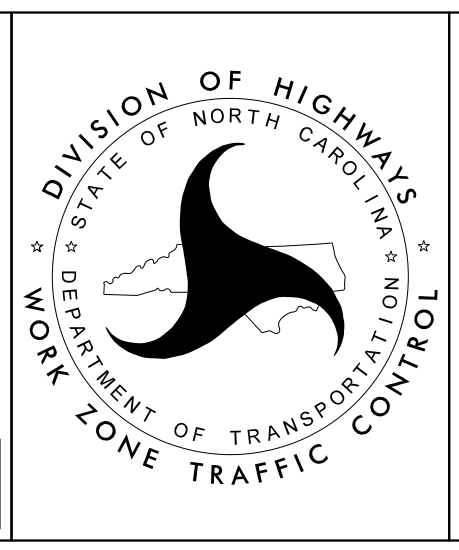
**NC-147 SOUTHBOUND
 DETOUR ROUTE**



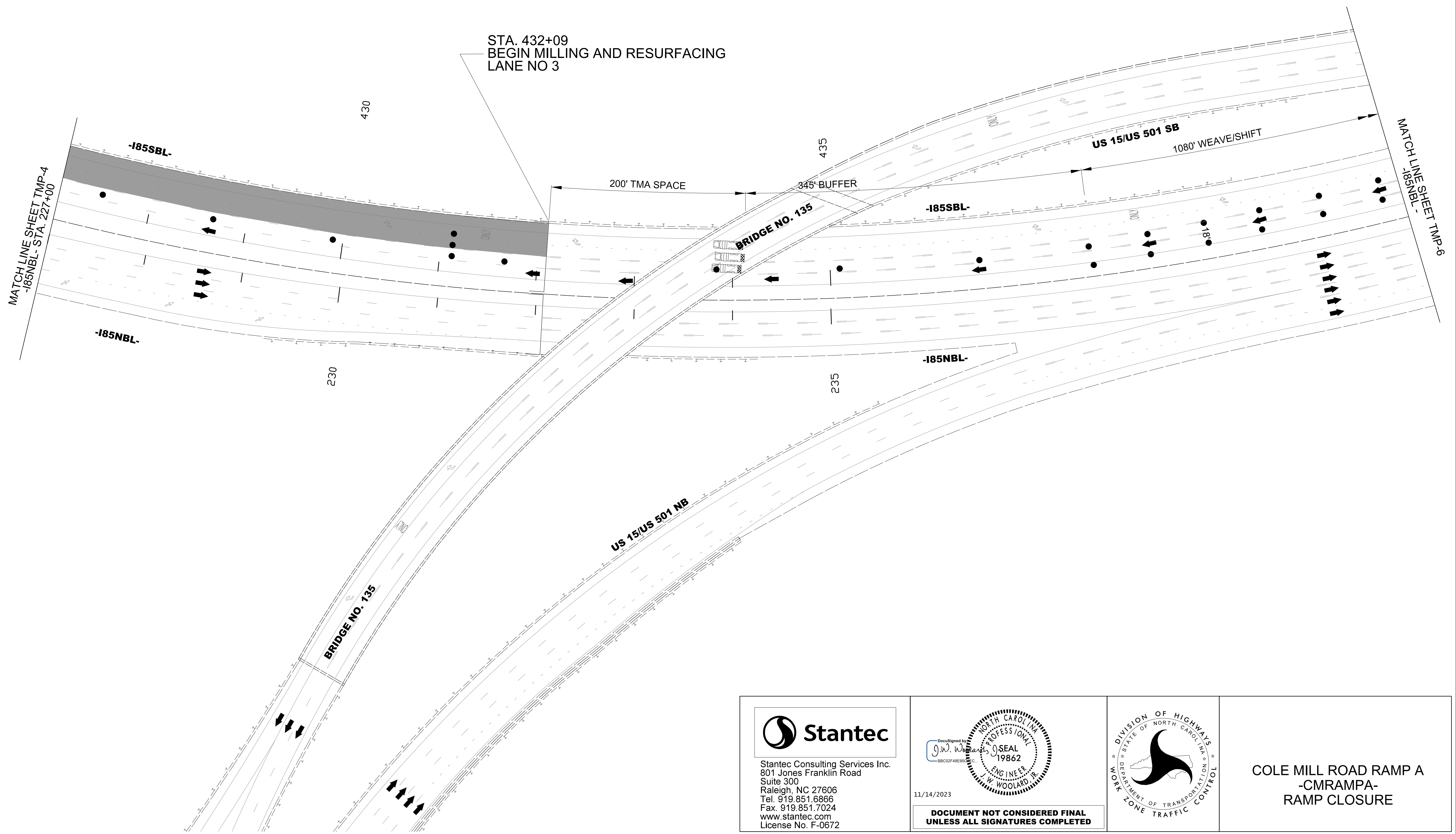
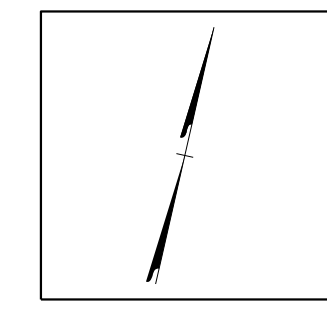
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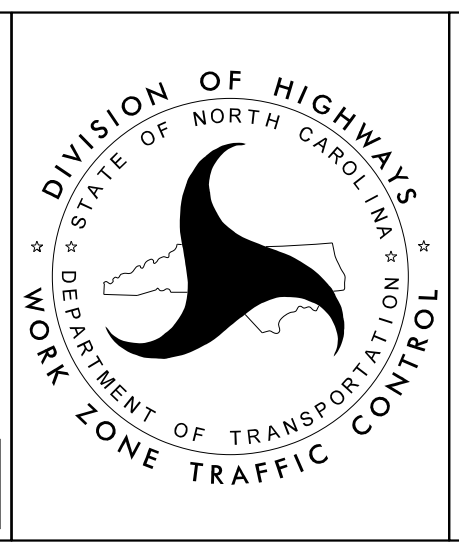
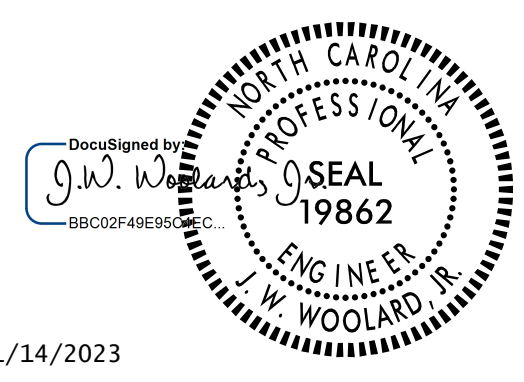
**COLE MILL ROAD RAMP A
 -CMRAMPA-
 RAMP CLOSURE**



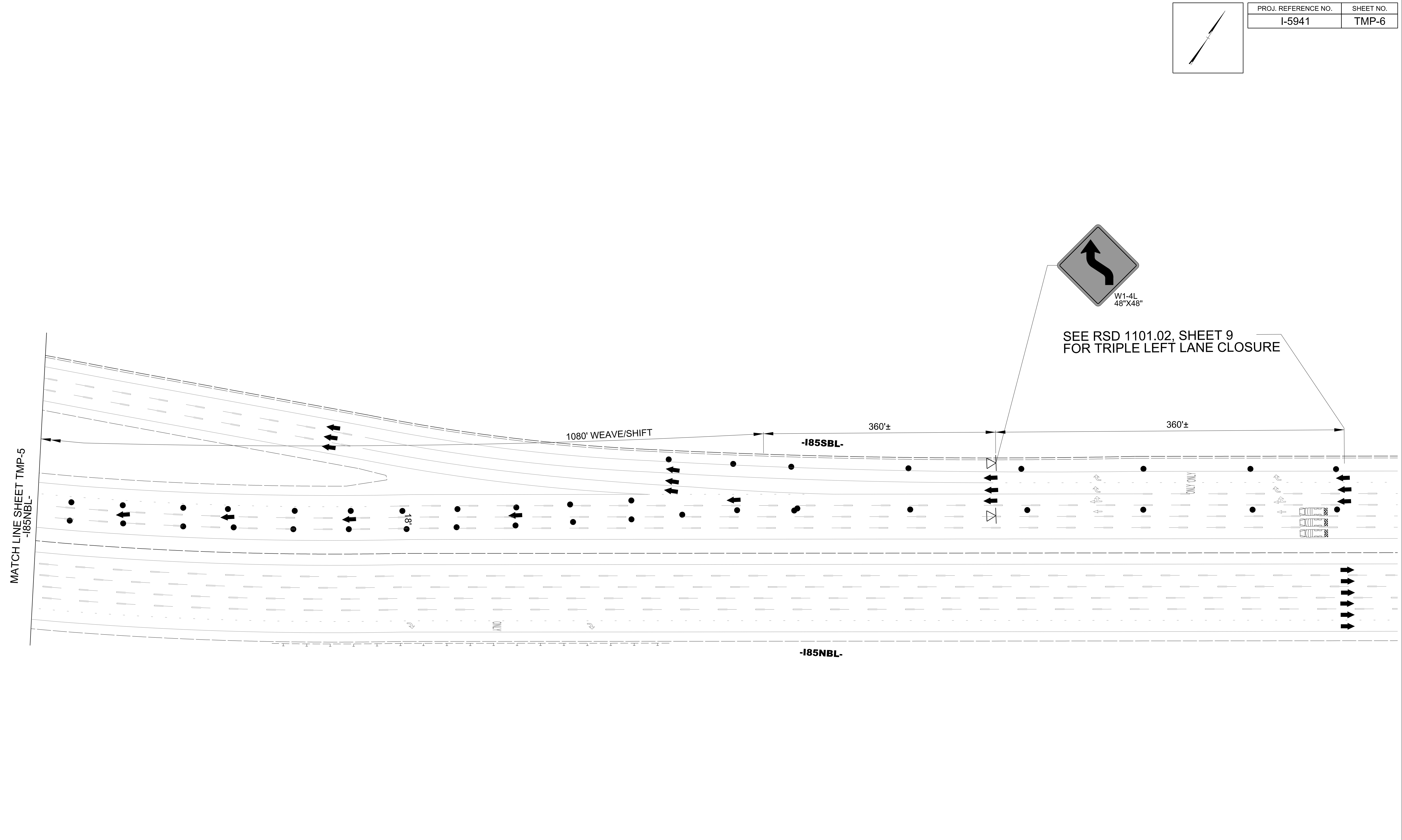
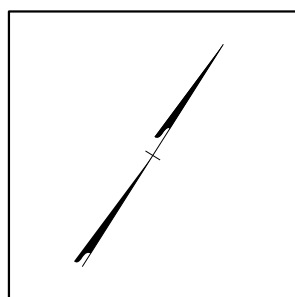
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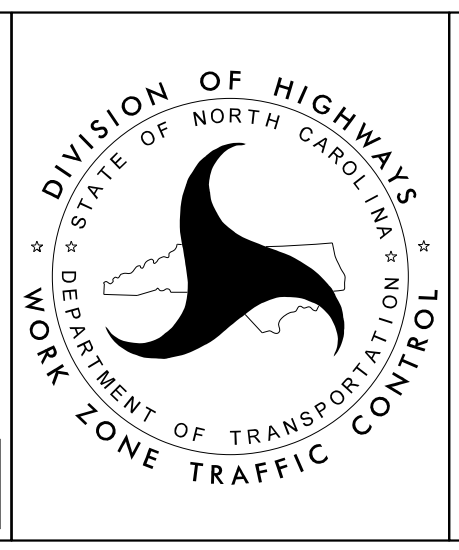
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 -CMRAMPA-
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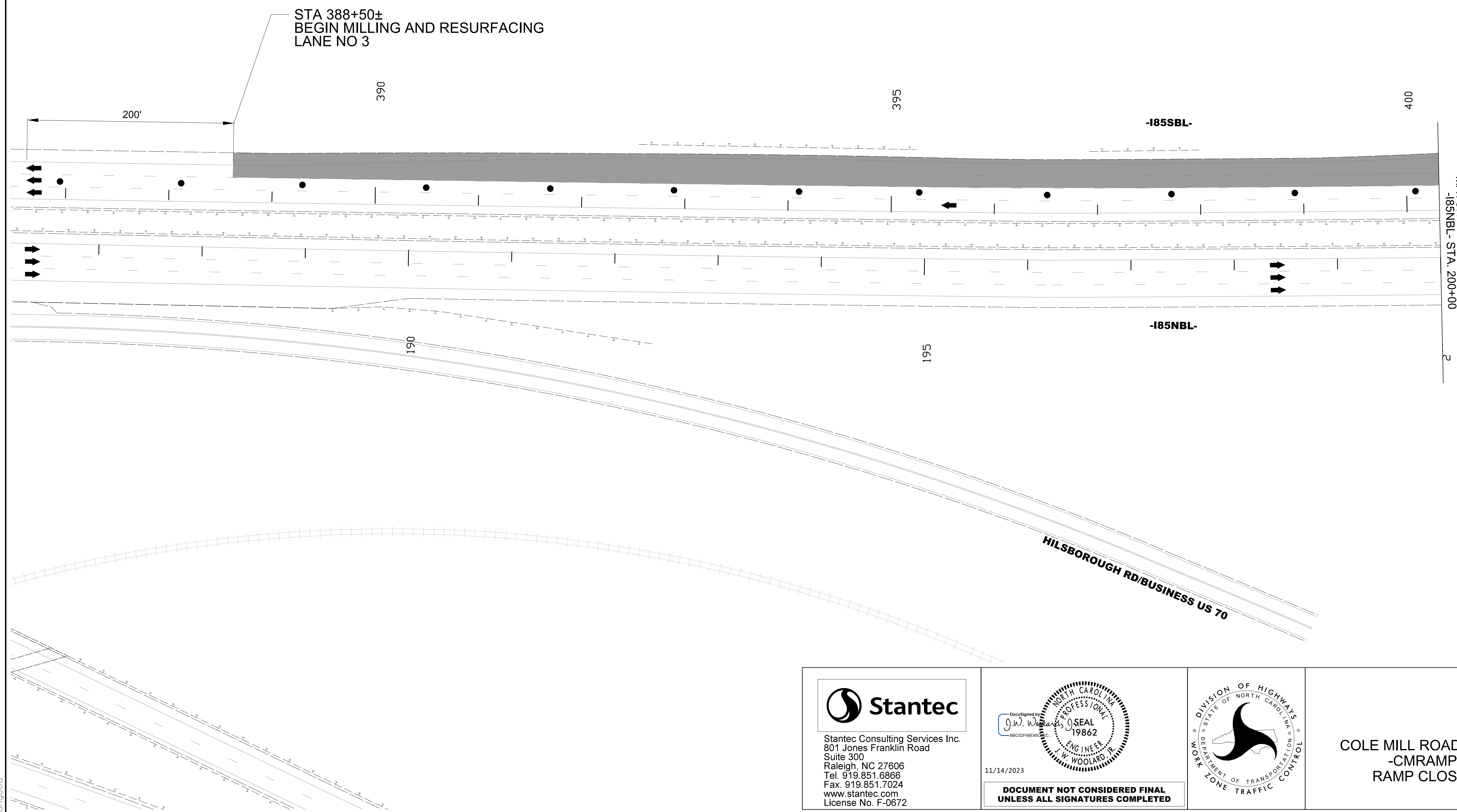
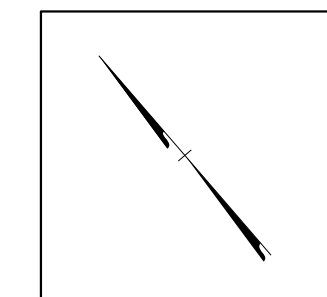
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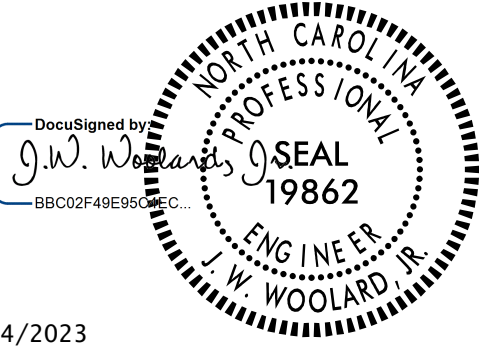
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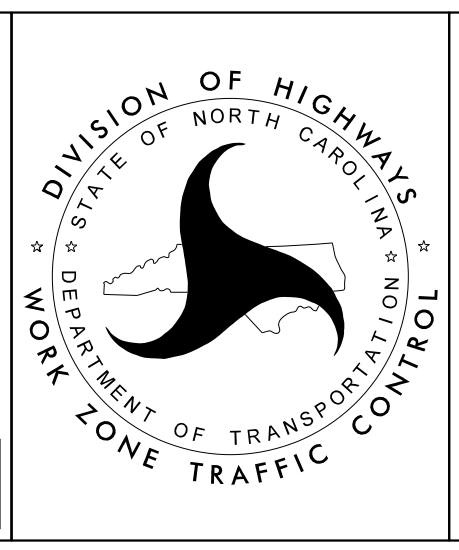
PROJ. REFERENCE NO.	SHEET NO.
I-5941	TMP-7



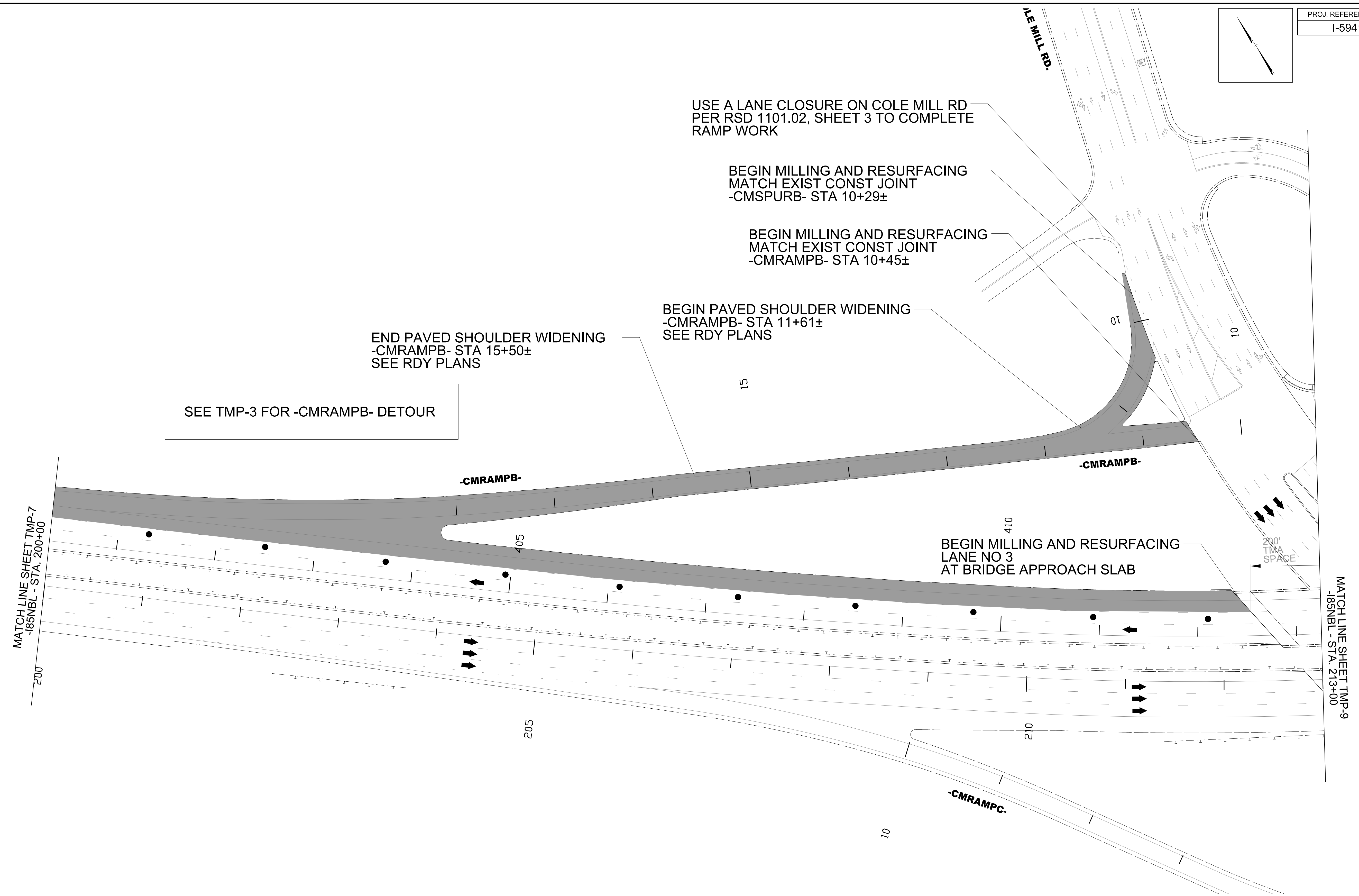
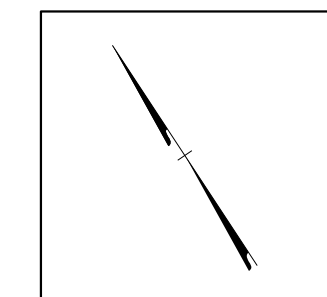
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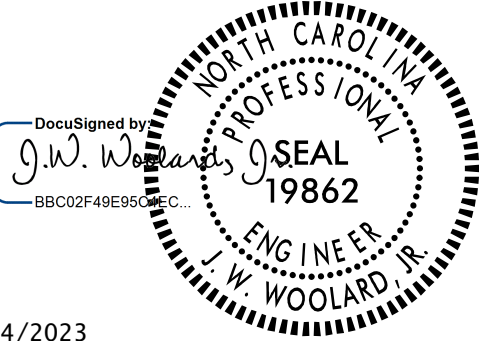


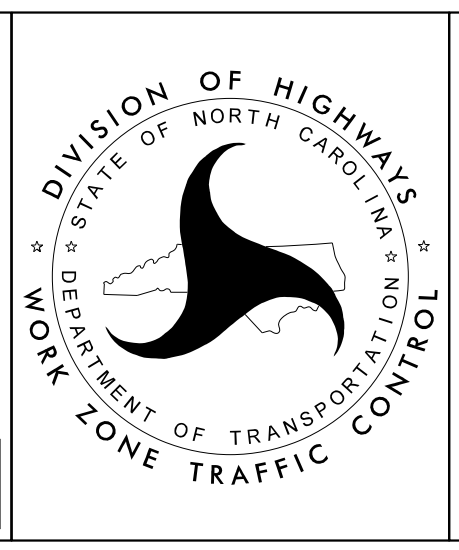
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 -CMRAMPB-
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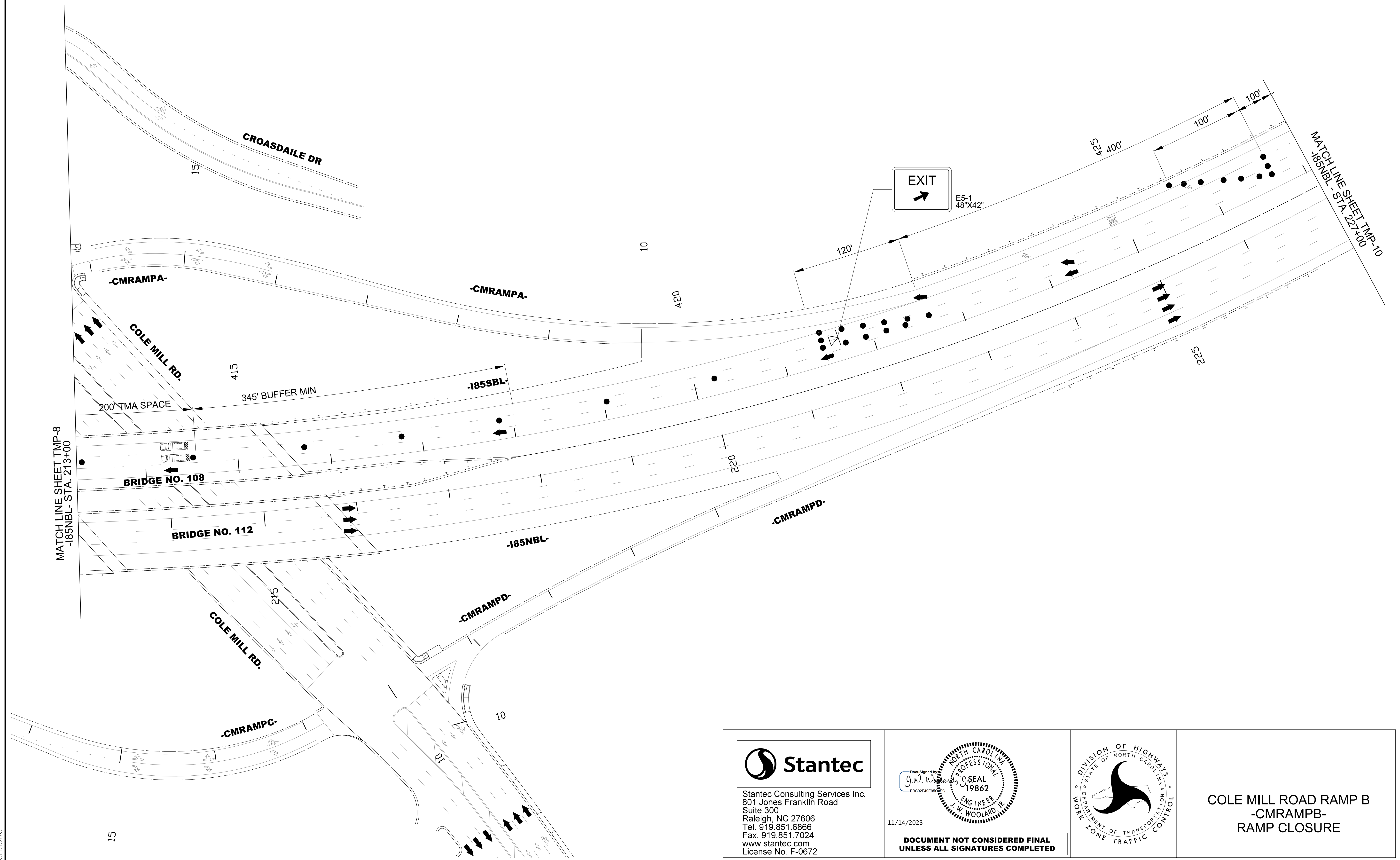
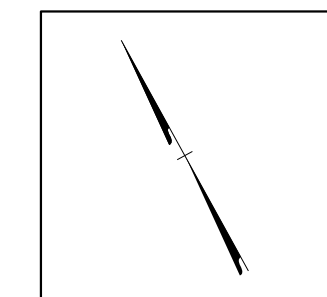
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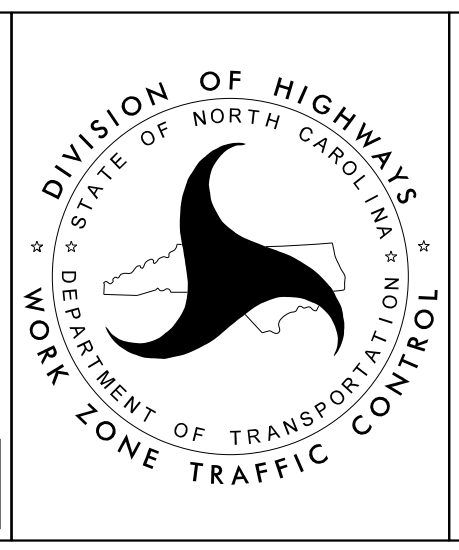
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RAMP CLOSURE



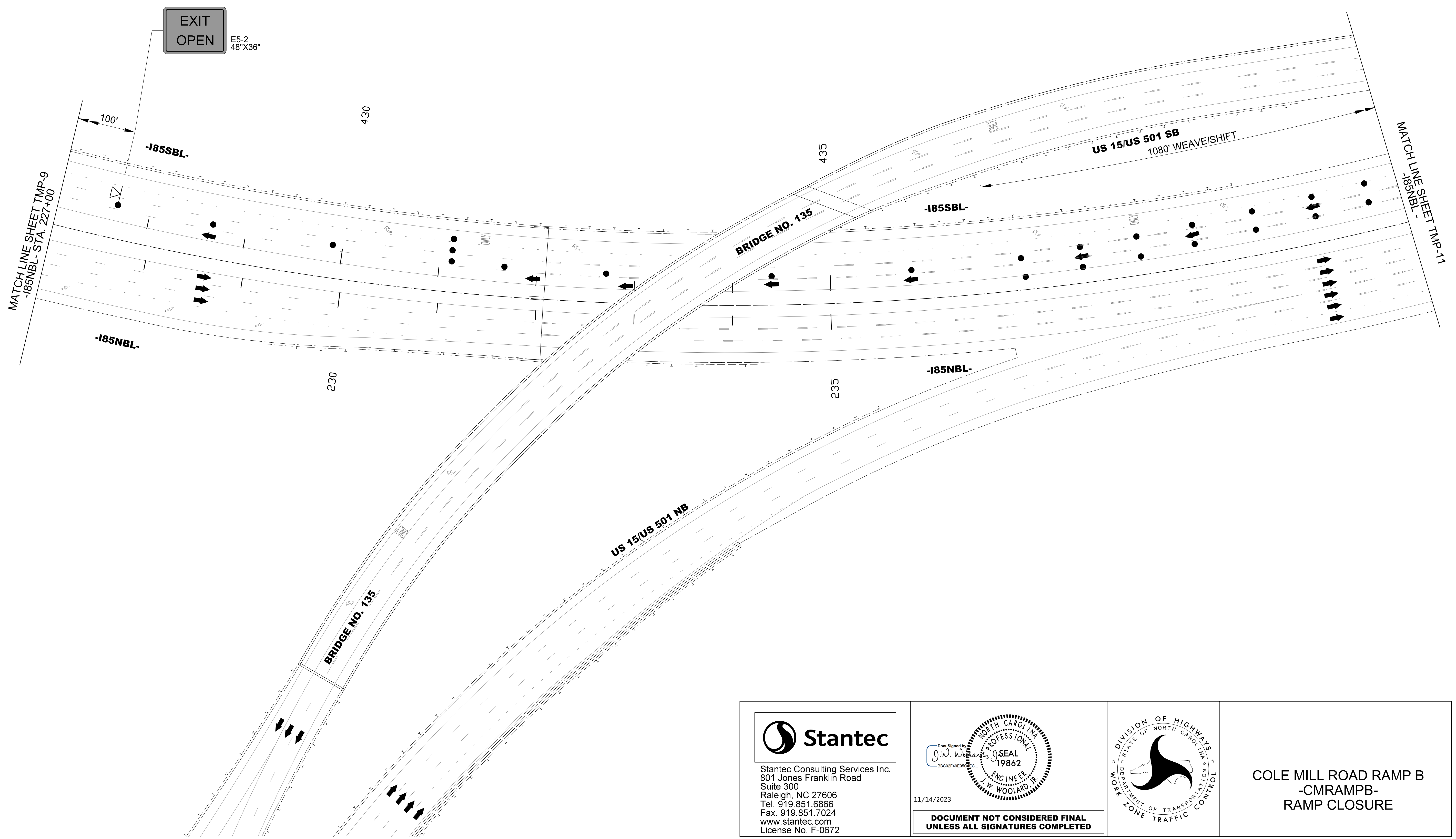
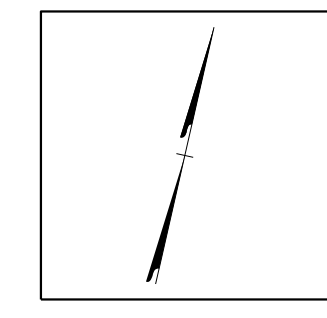
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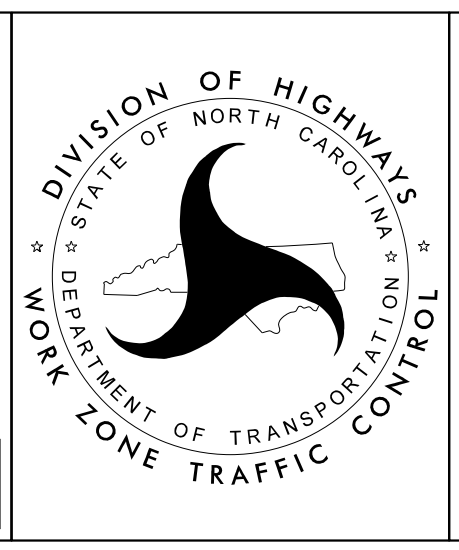
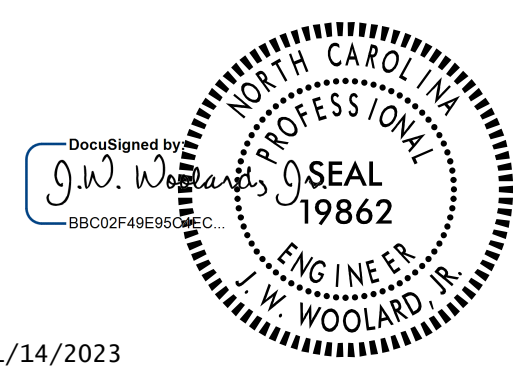
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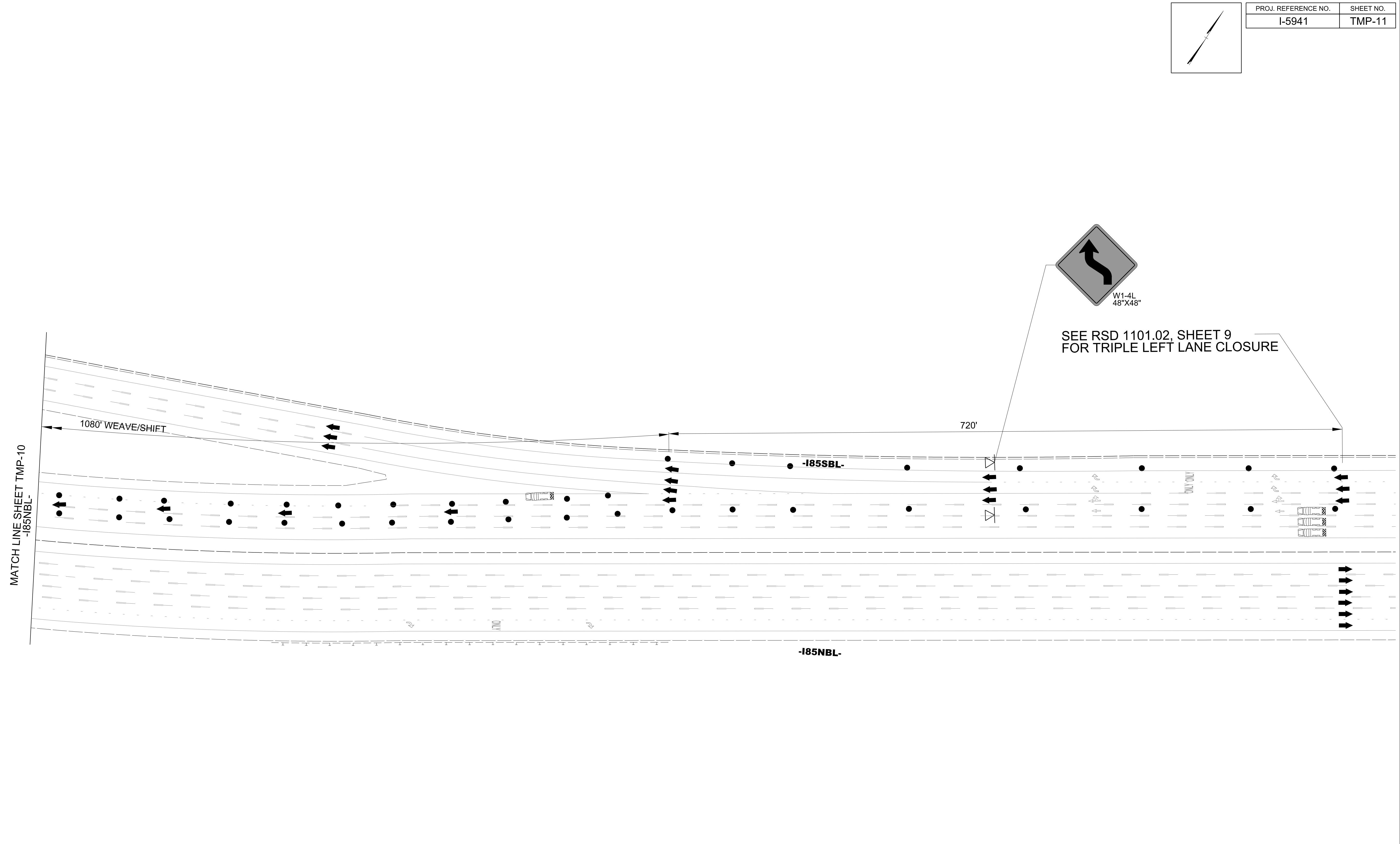
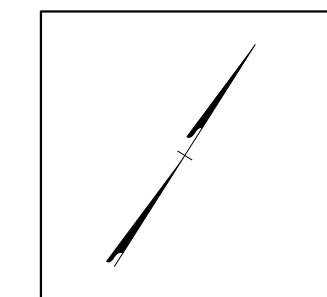
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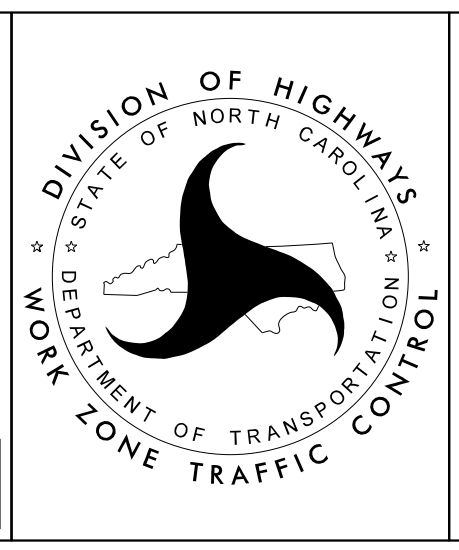
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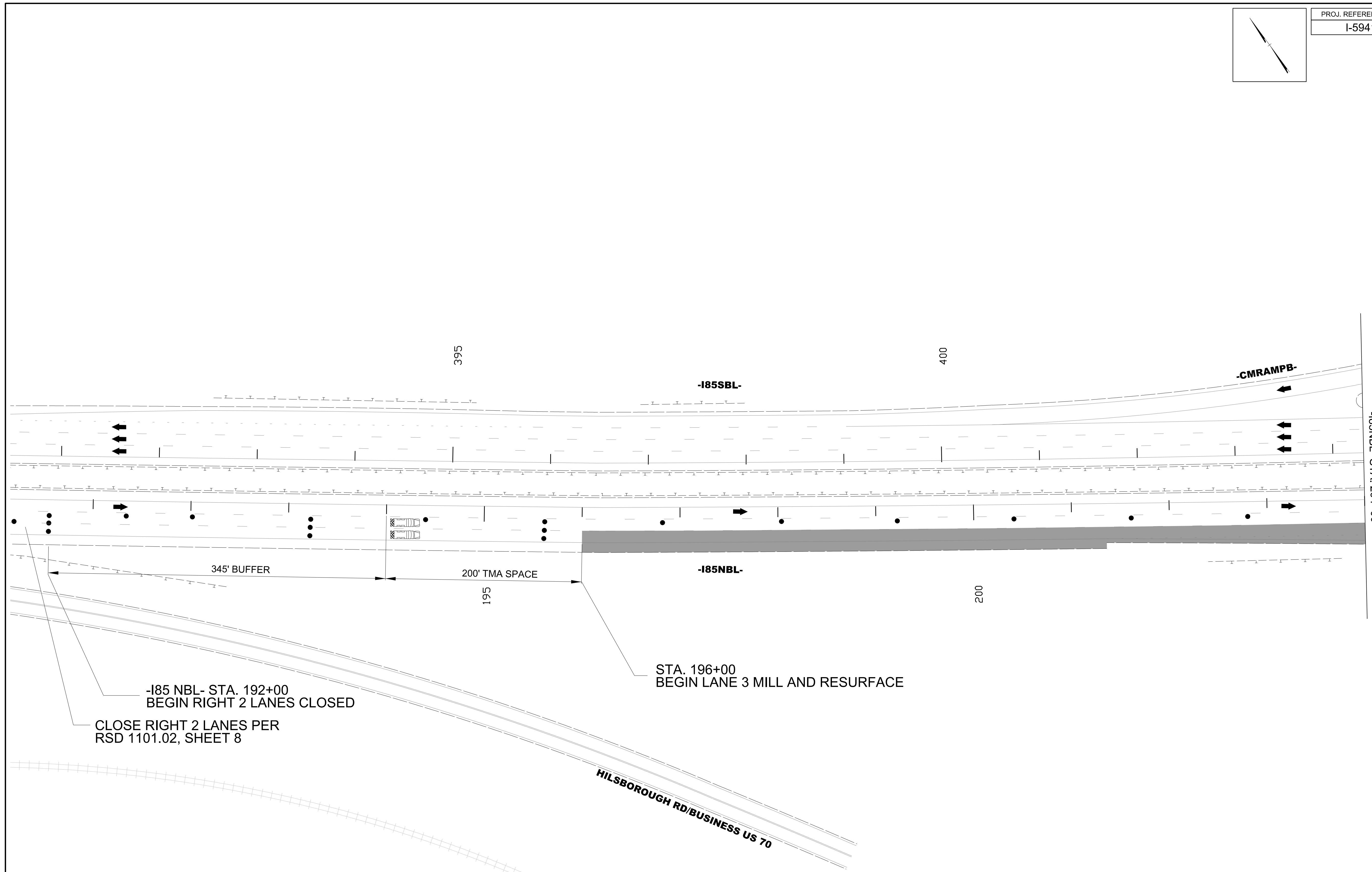
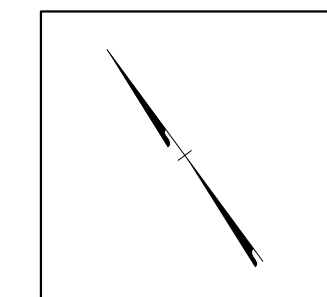
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**COLE MILL ROAD RAMP B
 -CMRAMPB-
 RAMP CLOSURE**



-185 NBL- STA. 192+00
BEGIN RIGHT 2 LANES CLOSED

CLOSE RIGHT 2 LANES PER
RSD 1101.02, SHEET 8

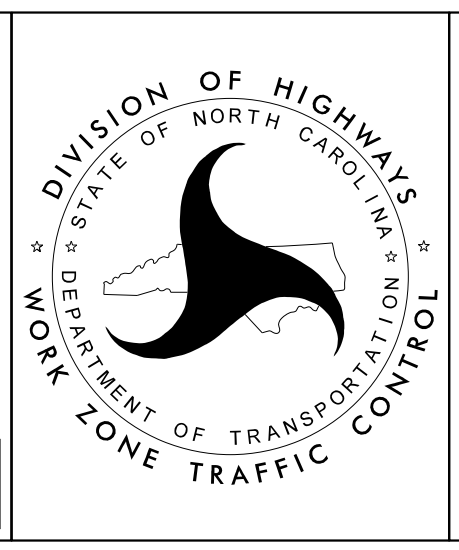
STA. 196+00
BEGIN LANE 3 MILL AND RESURFACE

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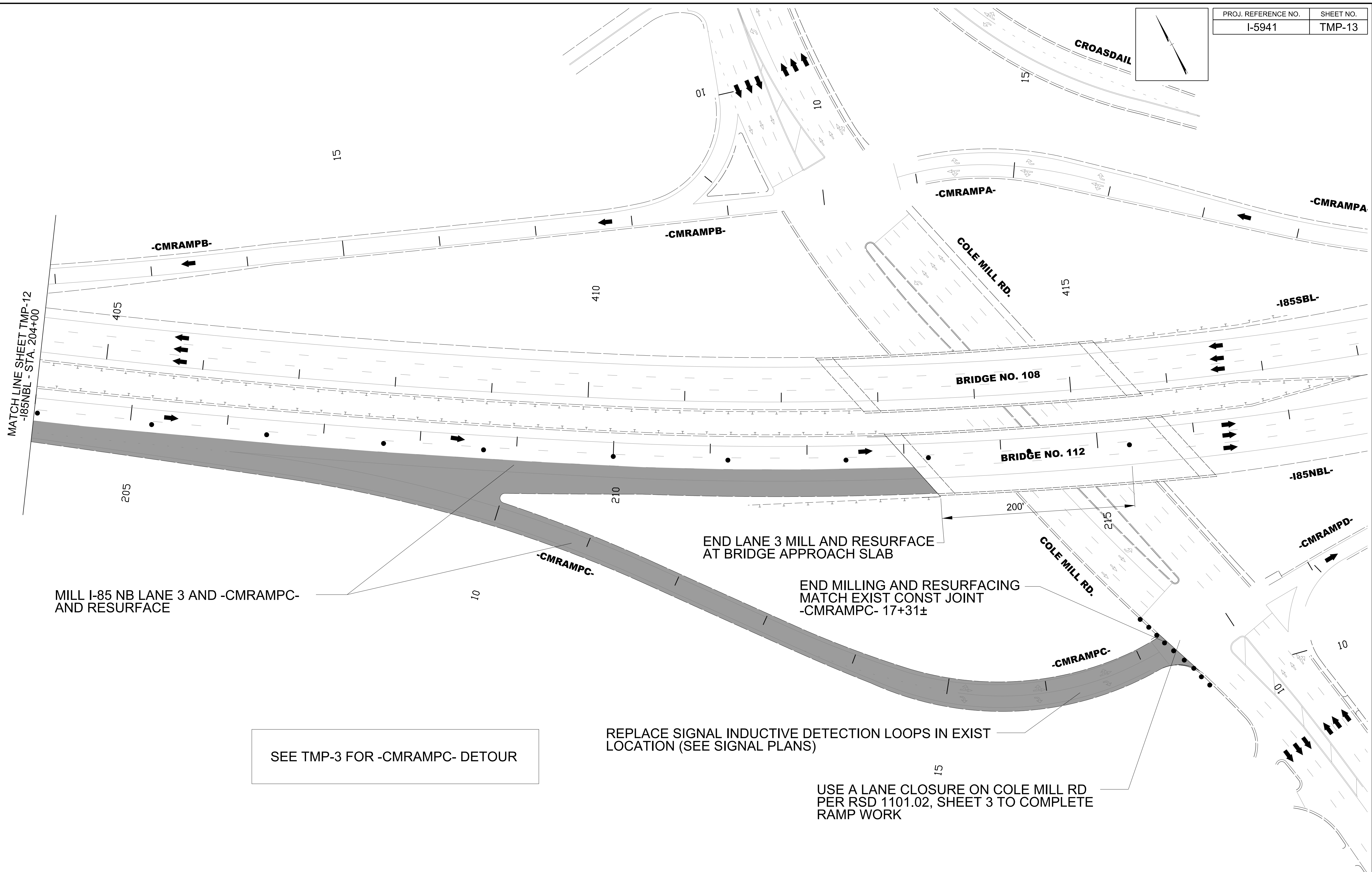
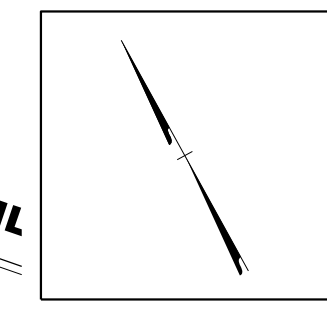
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**COLE MILL ROAD RAMP C
-CMRAMPC-
RAMP CLOSURE**



MATCH LINE SHEET TMP-12
-I85NBL - STA. 204+00

MILL I-85 NB LANE 3 AND -CMRAMPC- AND RESURFACE

END LANE 3 MILL AND RESURFACE AT BRIDGE APPROACH SLAB


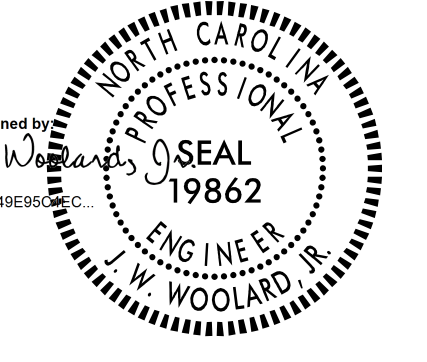
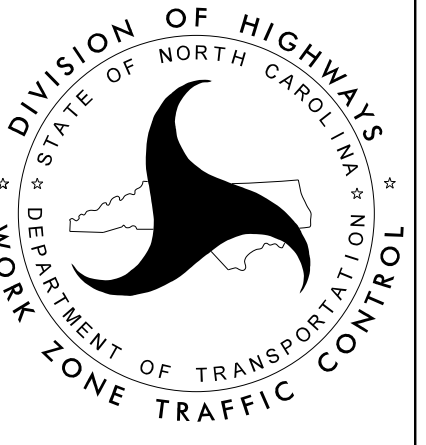
END MILLING AND RESURFACING MATCH EXIST CONST JOINT -CMRAMPC- 17+31±

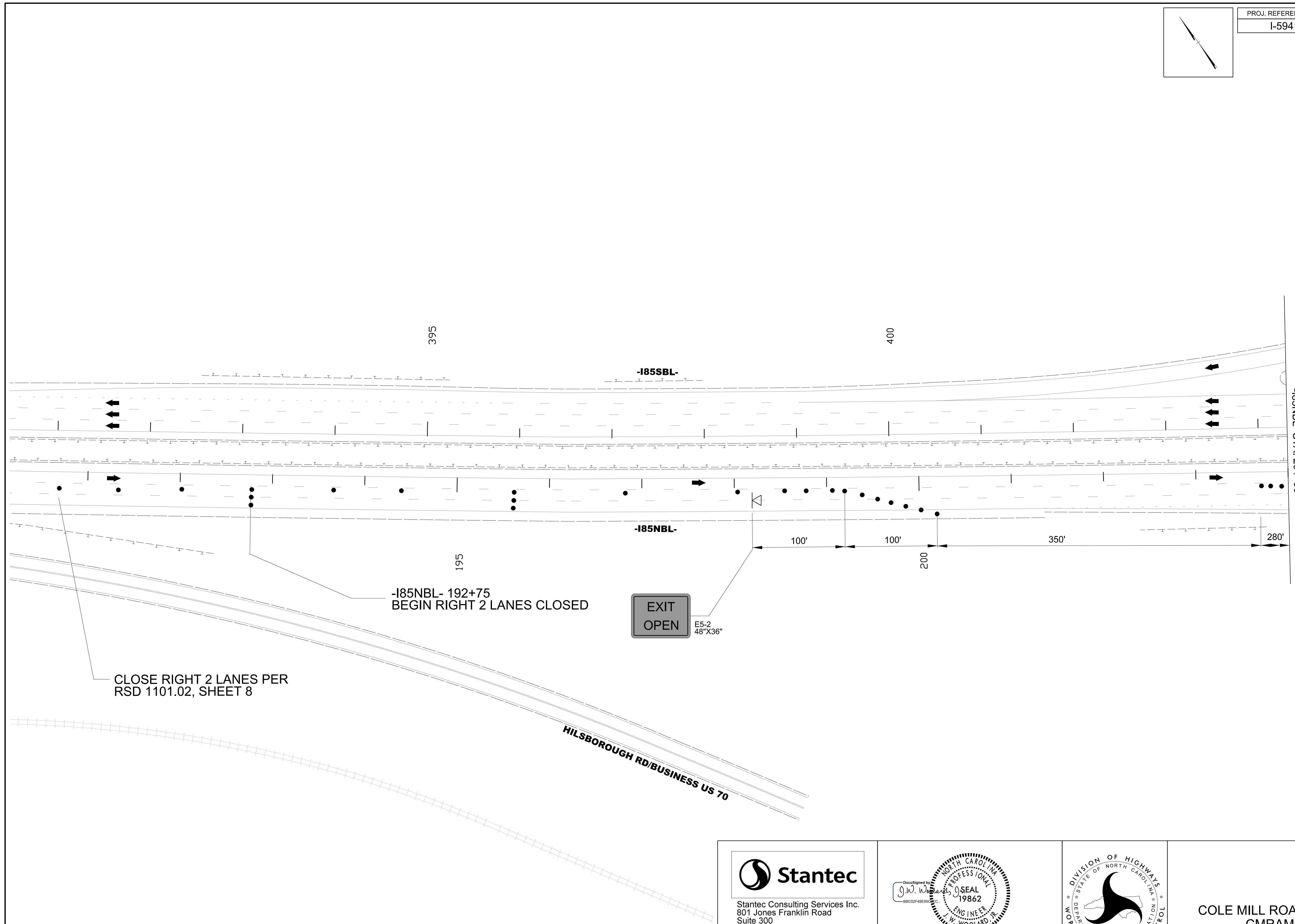
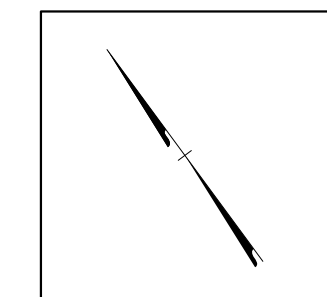
SEE TMP-3 FOR -CMRAMPC- DETOUR

REPLACE SIGNAL INDUCTIVE DETECTION LOOPS IN EXIST LOCATION (SEE SIGNAL PLANS)

USE A LANE CLOSURE ON COLE MILL RD PER RSD 1101.02, SHEET 3 TO COMPLETE RAMP WORK

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CLOSE RIGHT 2 LANES PER
RSD 1101.02, SHEET 8

-I85NBL- 192+75
BEGIN RIGHT 2 LANES CLOSED

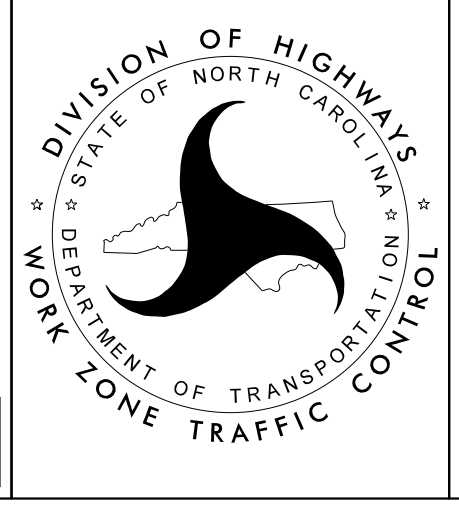
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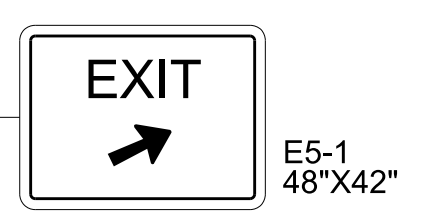
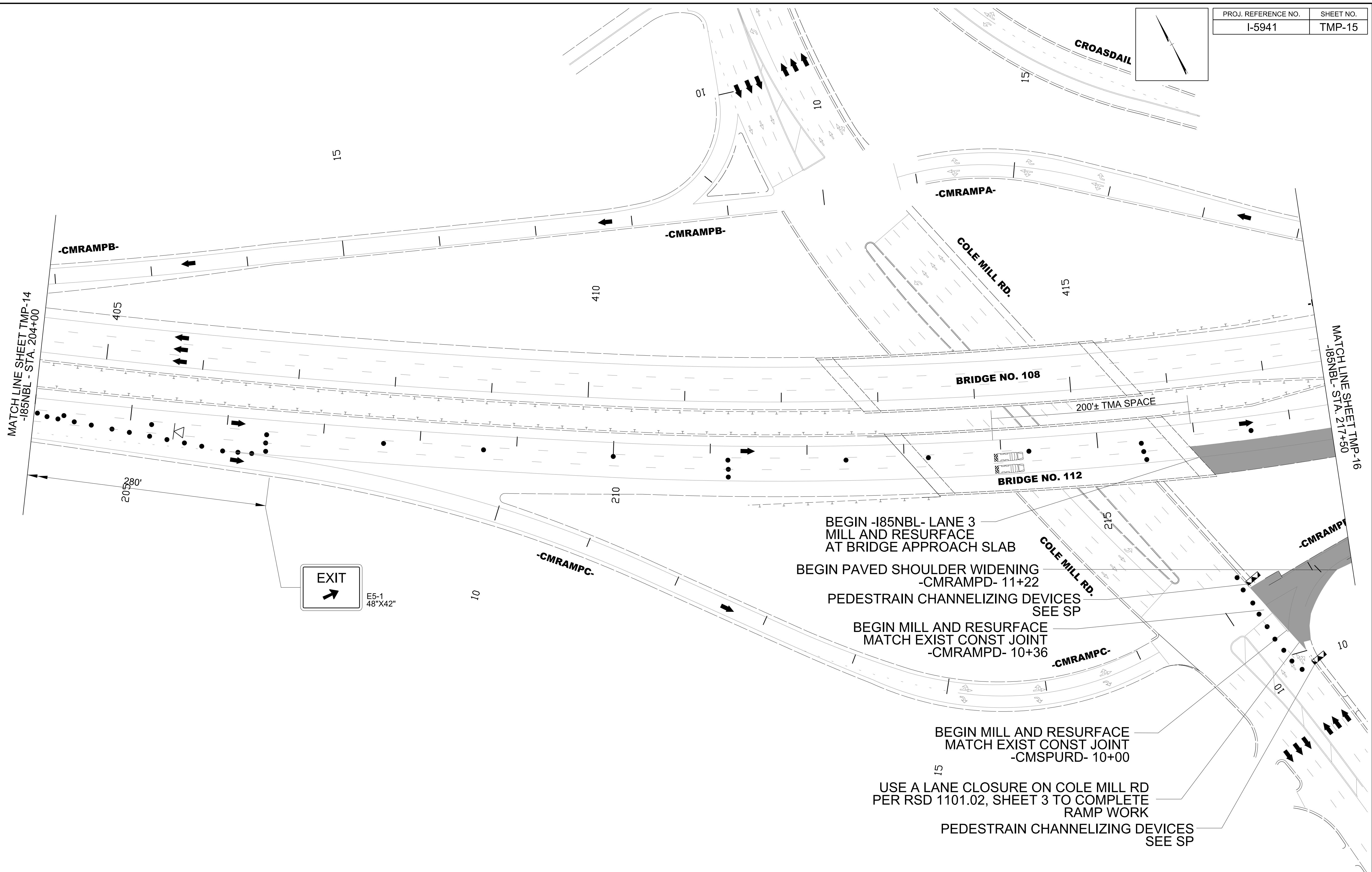
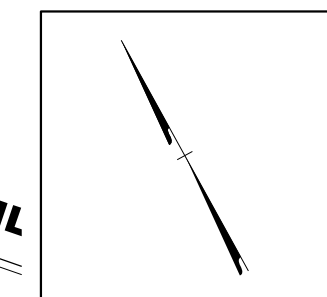
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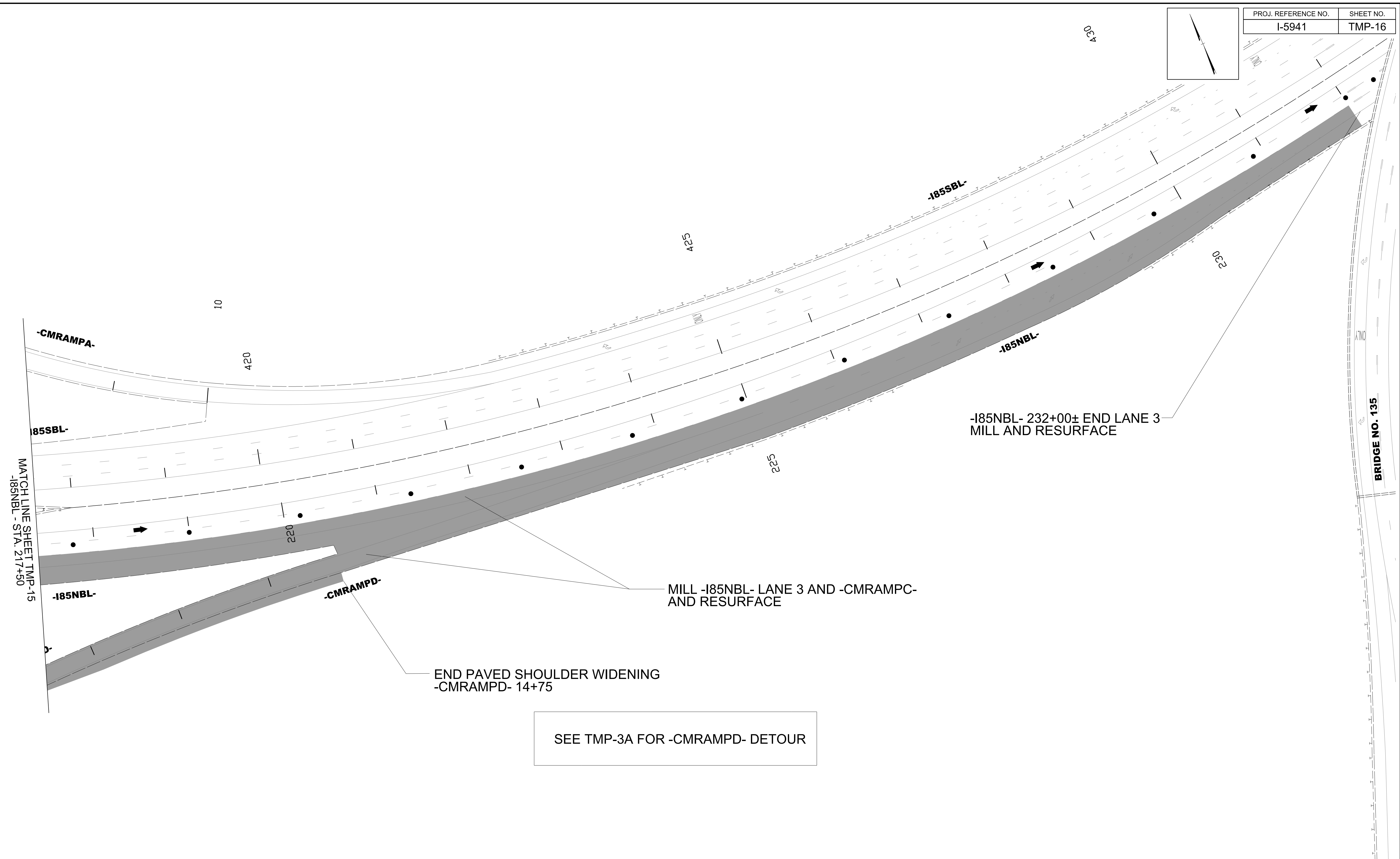
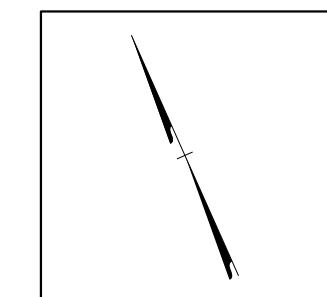


**COLE MILL ROAD RAMP D
-CMRAMPD-
RAMP CLOSURE**



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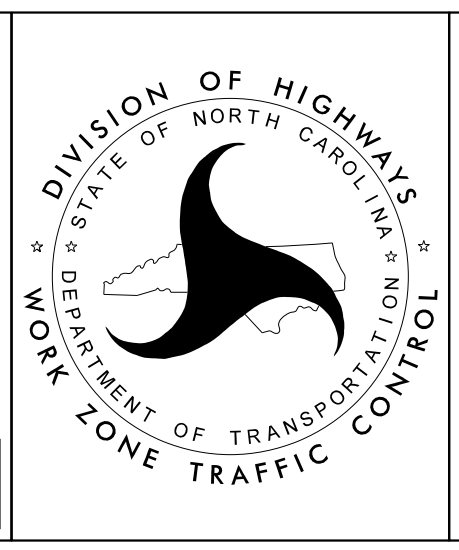


SEE TMP-3A FOR -CMRAMPD- DETOUR

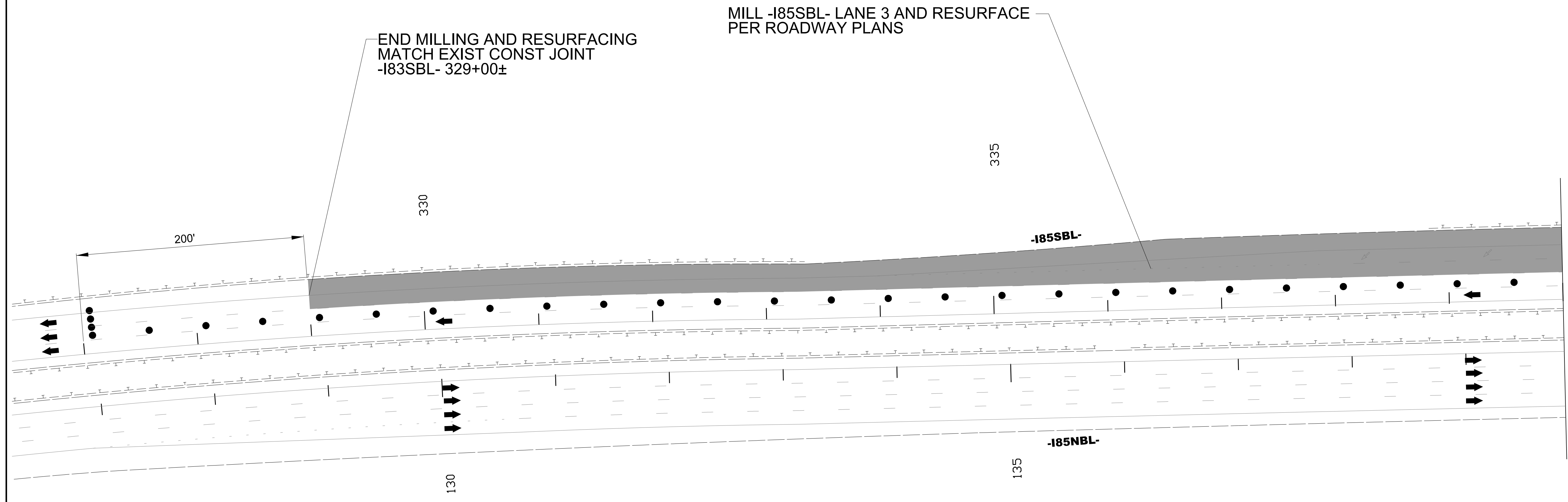
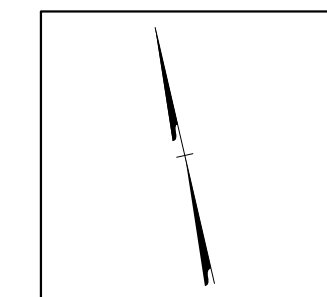
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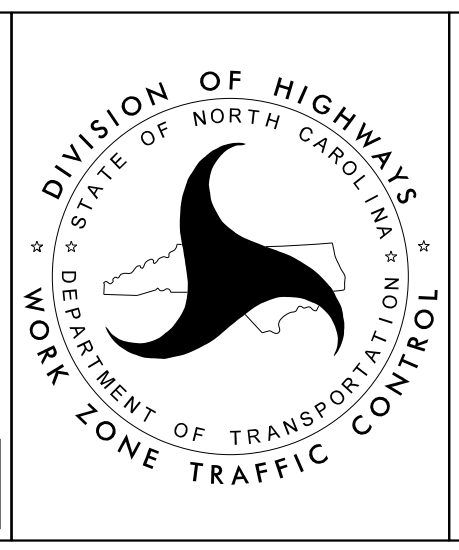
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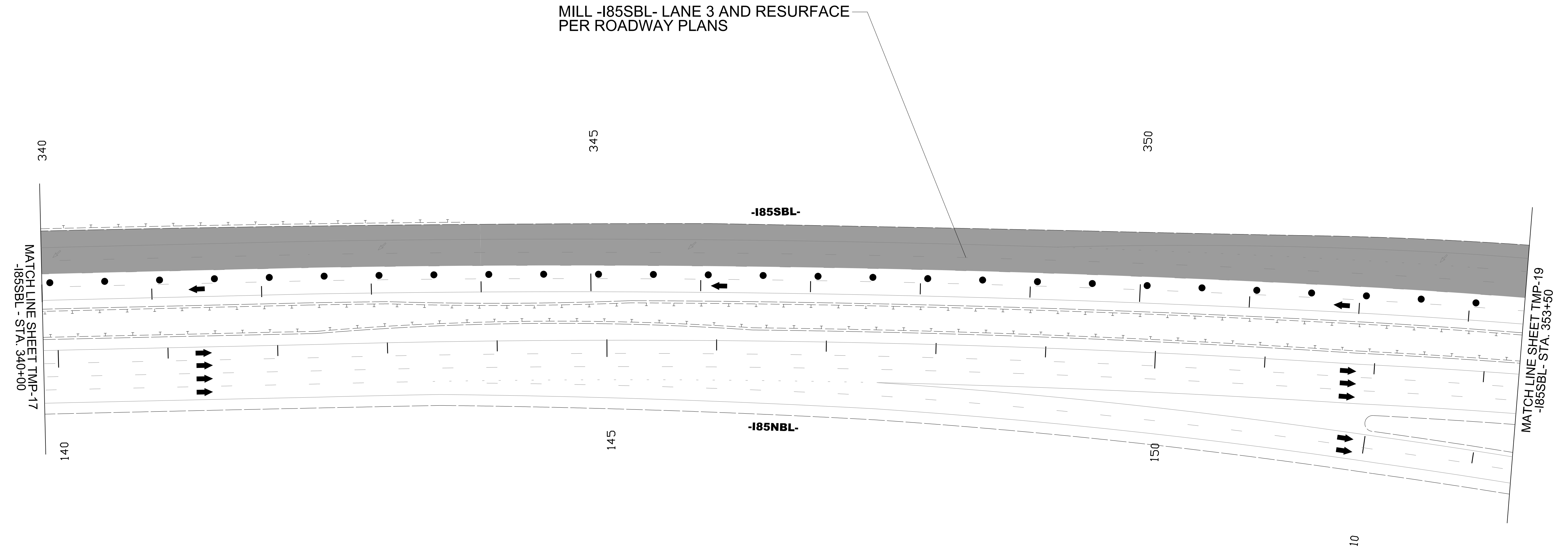
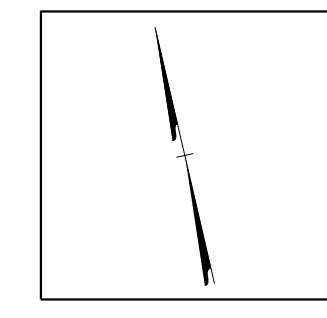
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**NC-147 NORTHBOUND RAMP
 -NC147NB-
 RAMP CLOSURE**

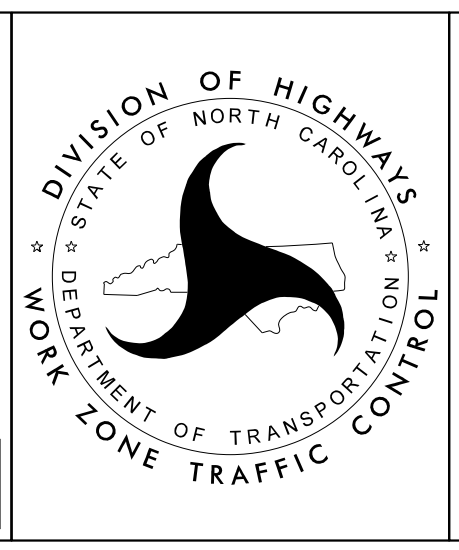
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I-5941	TMP-18



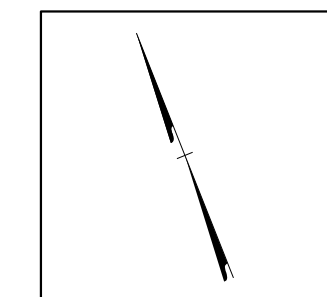
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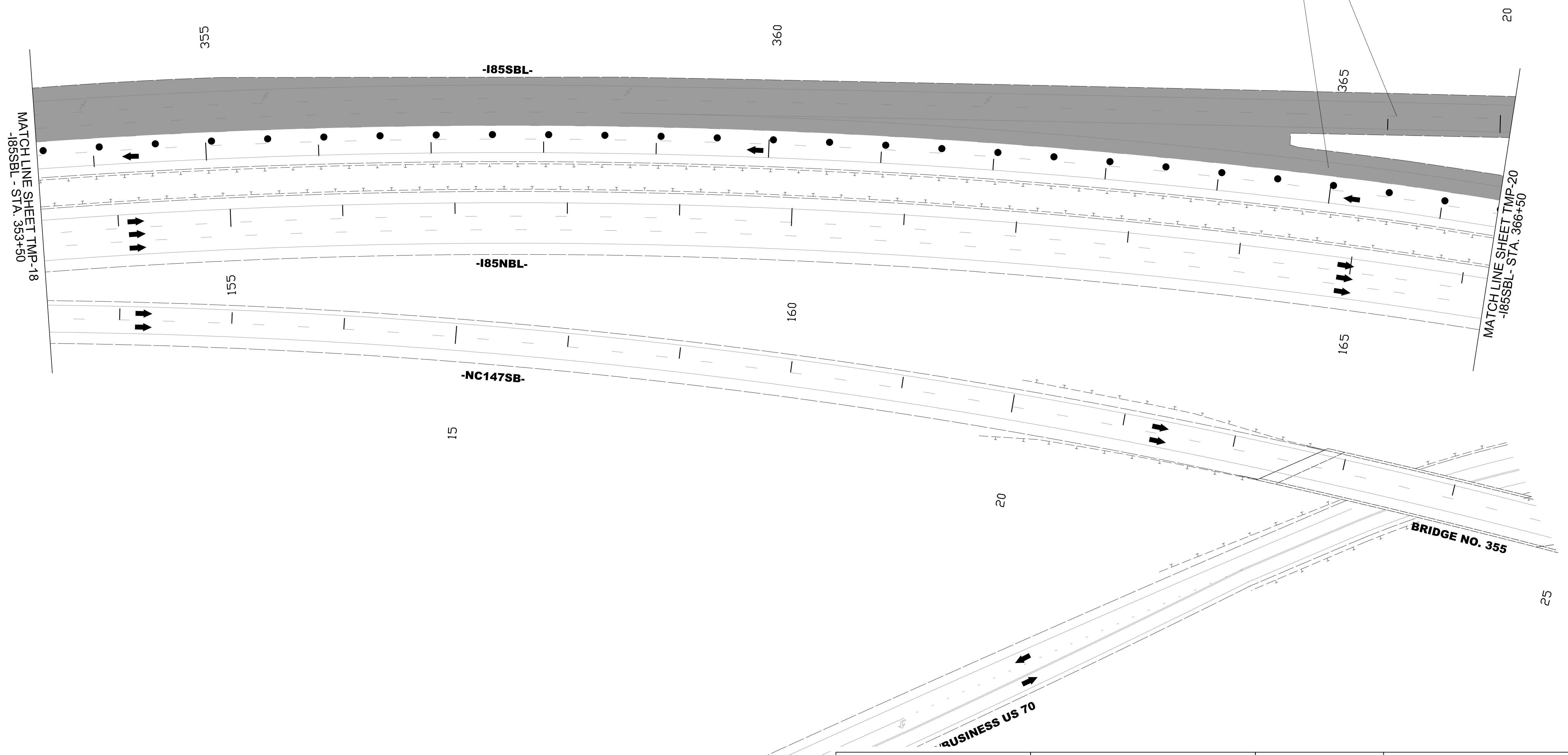


**NC-147 NORTHBOUND RAMP
 -NC147NB-
 RAMP CLOSURE**



SEE TMP-3A FOR -NC147NBL- DETOUR

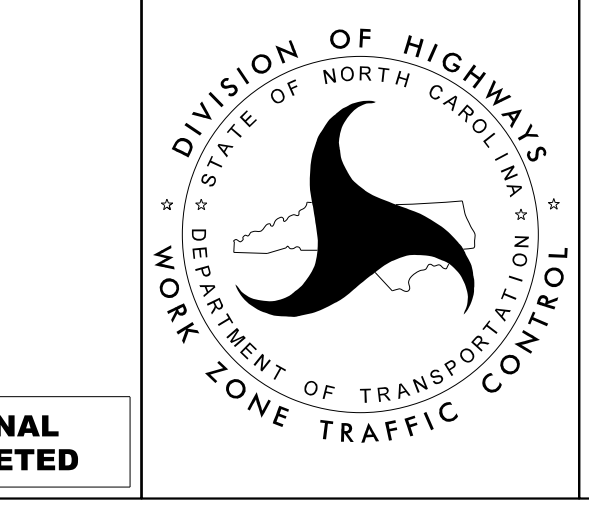
MILL -I85SBL- LANE 3 AND -NC147NB- AND RESURFACE PER ROADWAY PLANS



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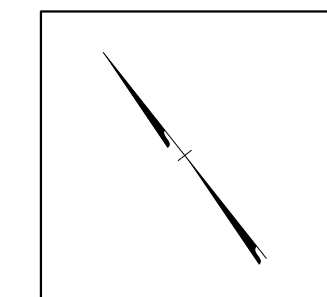
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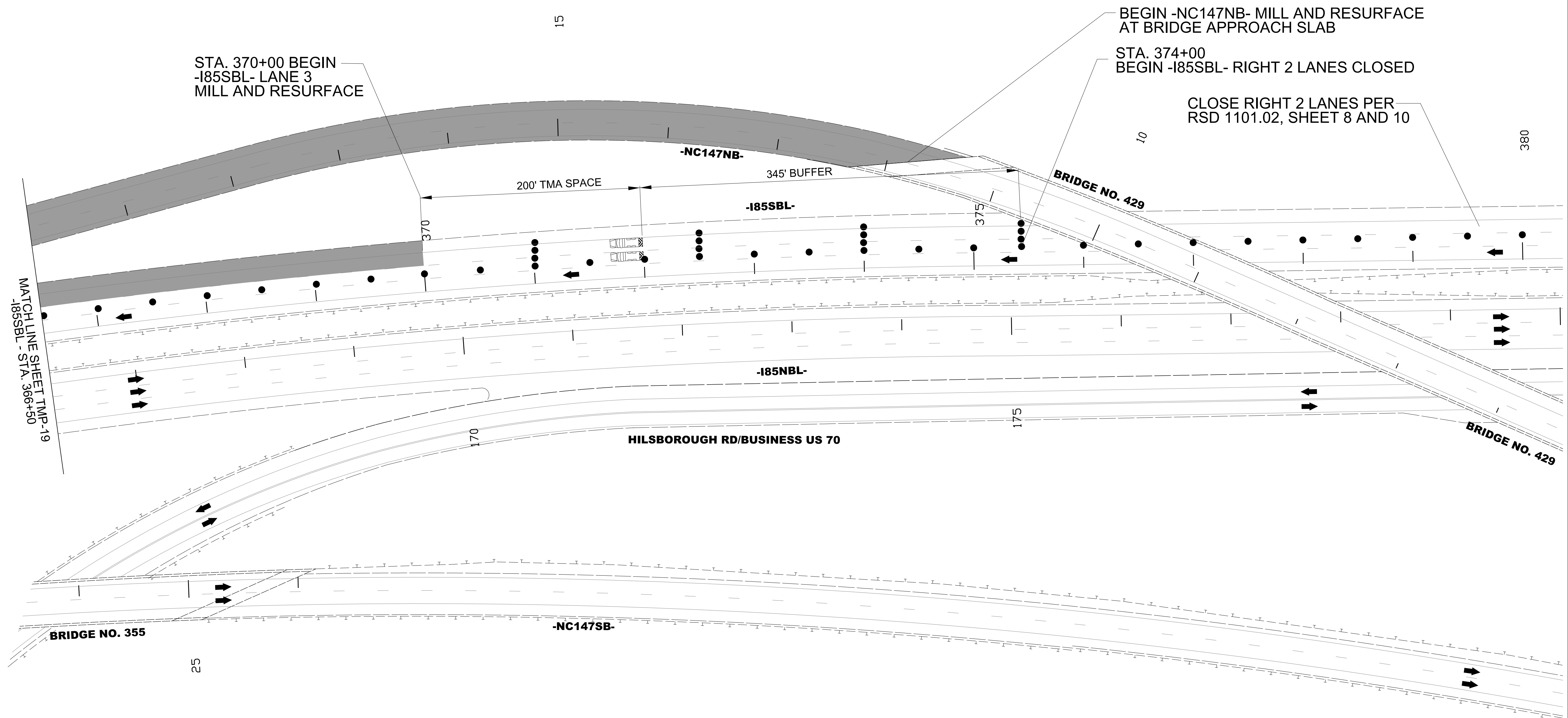


**NC-147 NORTHBOUND RAMP
 -NC147NB-
 RAMP CLOSURE**

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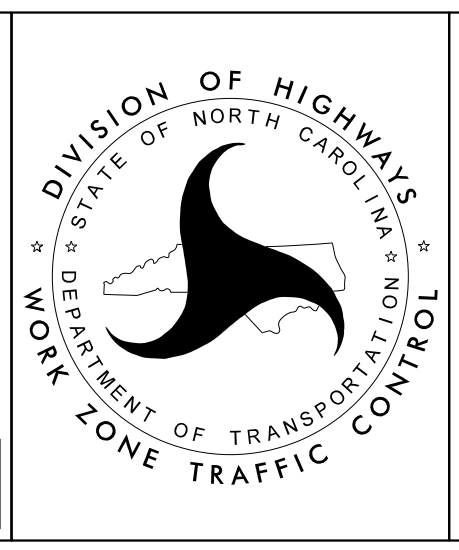


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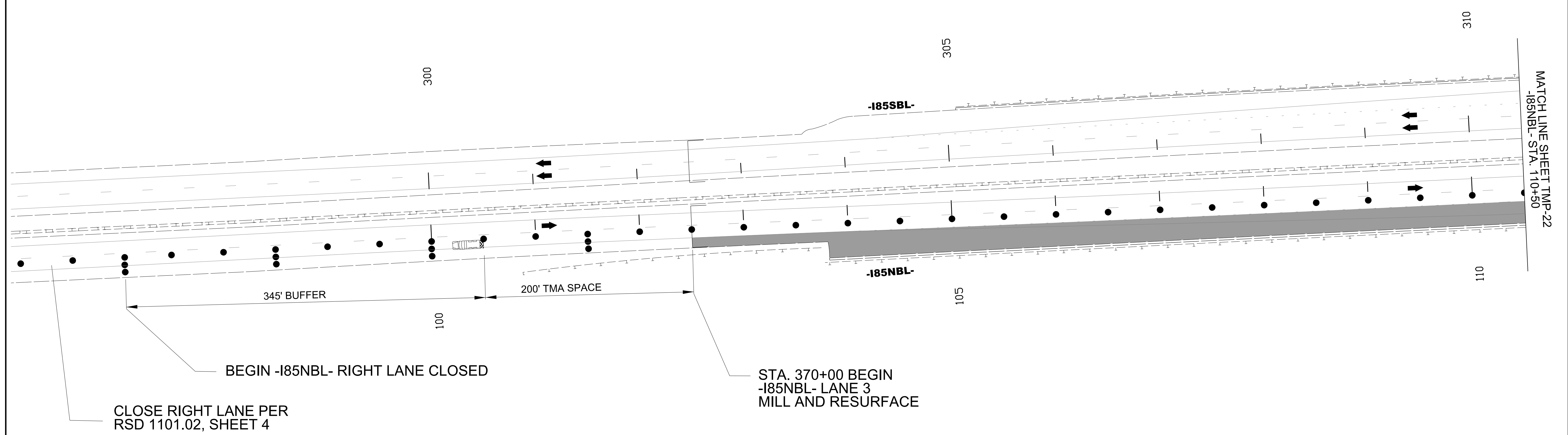
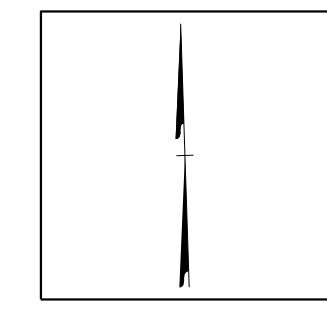
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**NC-147 NORTHBOUND RAMP
 -NC147NB-
 RAMP CLOSURE**

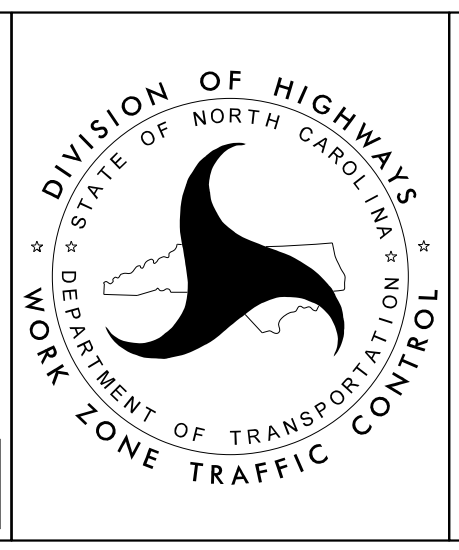
PROJ. REFERENCE NO.	SHEET NO.
I-5941	TMP-21



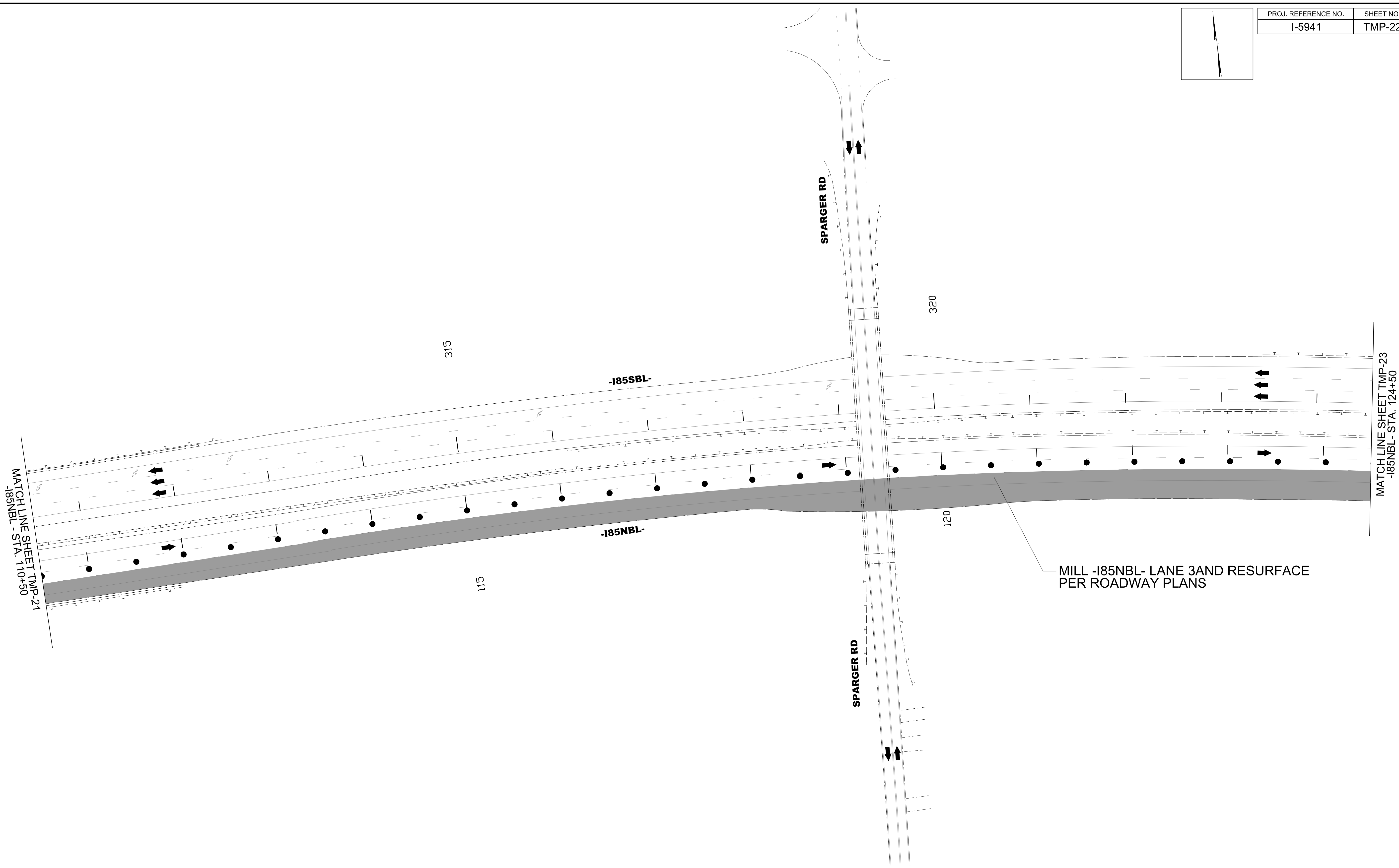
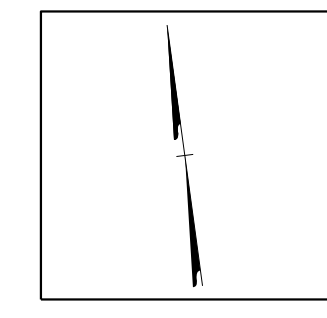
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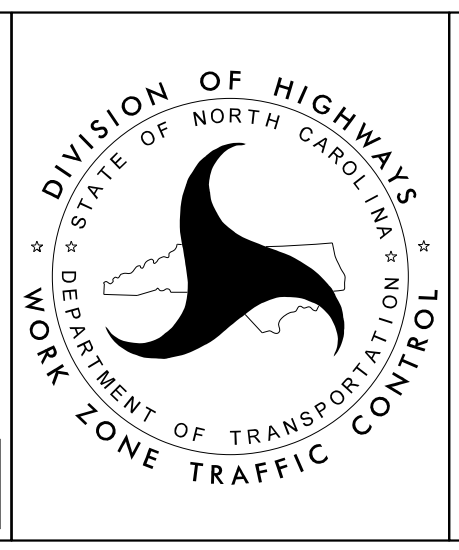
**NC-147 SOUTHBOUND RAMP
 -NC147SB-
 RAMP CLOSURE**



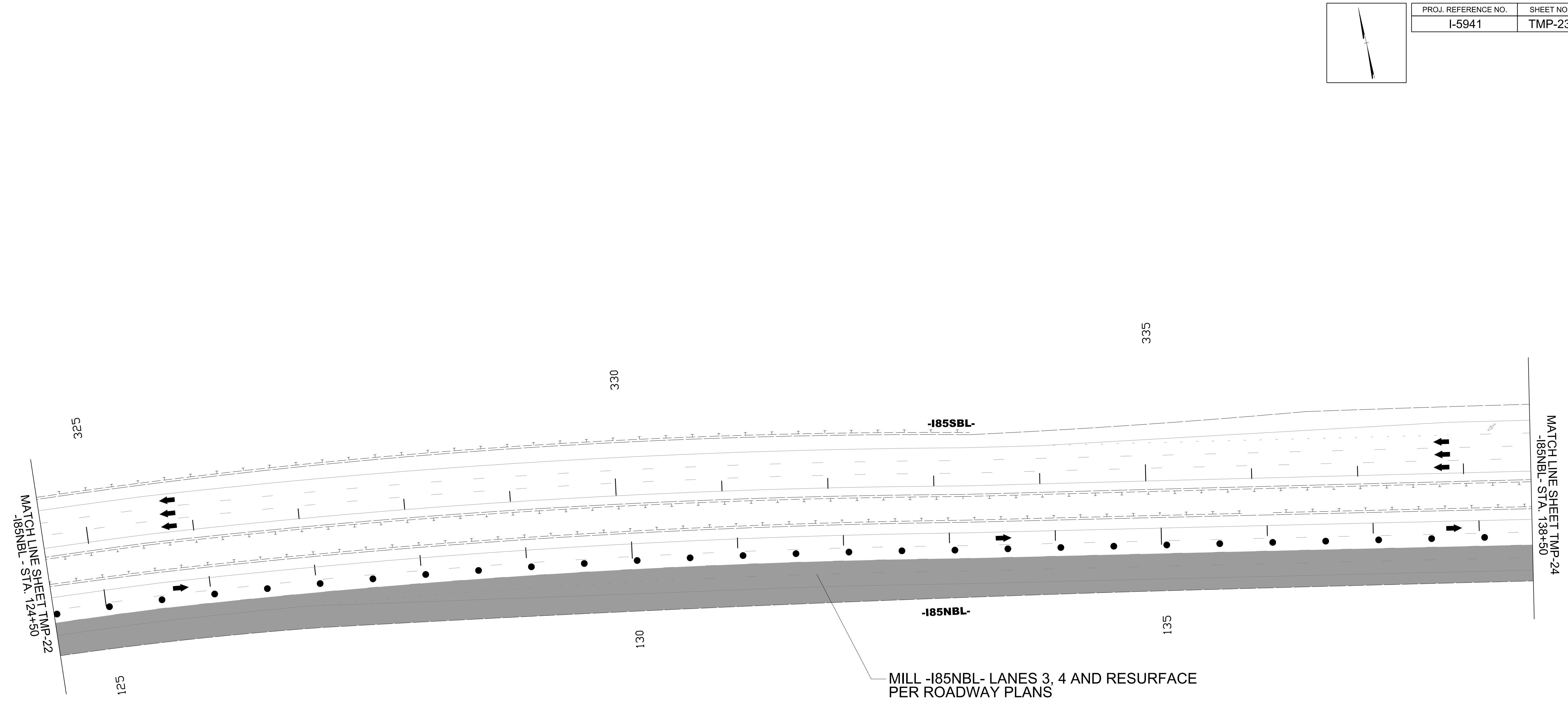
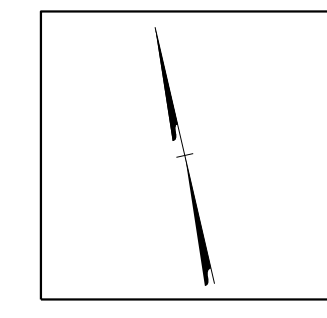
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**NC-147 SOUTHBOUND RAMP
 -NC147SB-
 RAMP CLOSURE**

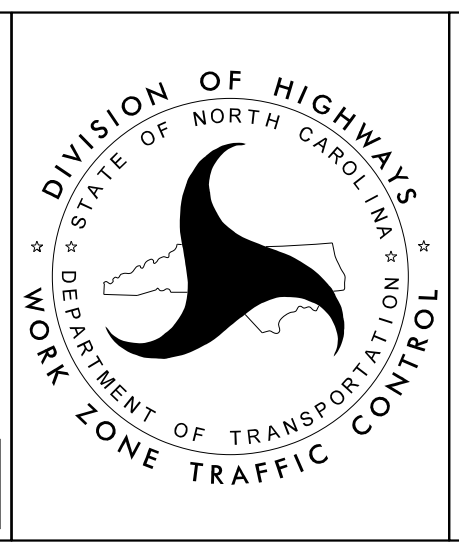


MILL -185NBL- LANES 3, 4 AND RESURFACE PER ROADWAY PLANS

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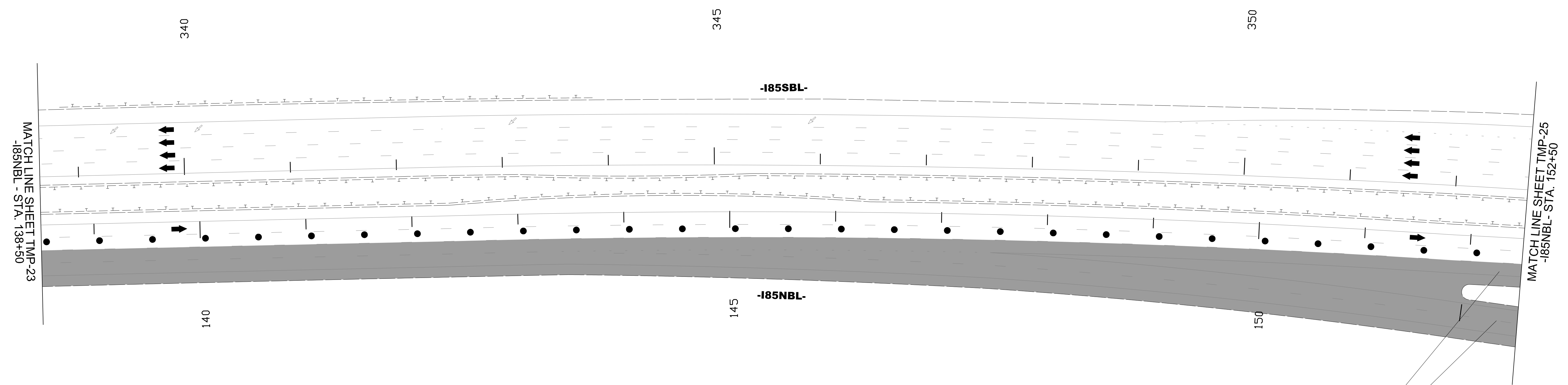
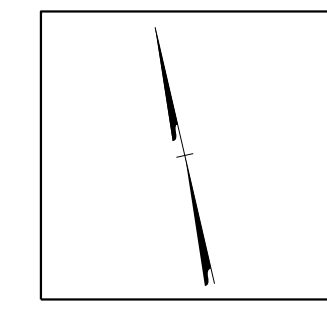
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**NC-147 SOUTHBOUND RAMP
 -NC147SB-
 RAMP CLOSURE**

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I-5941	TMP-24



SEE TMP-3B FOR -NC147SB- DETOUR

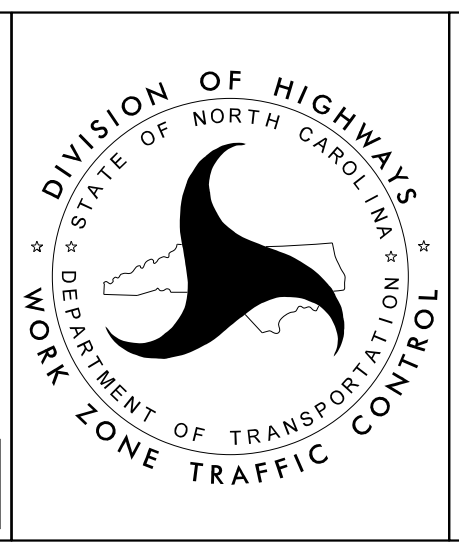
MILL -185NBL- LANE 3 AND -NC147SB- AND RESURFACE PER ROADWAY PLANS

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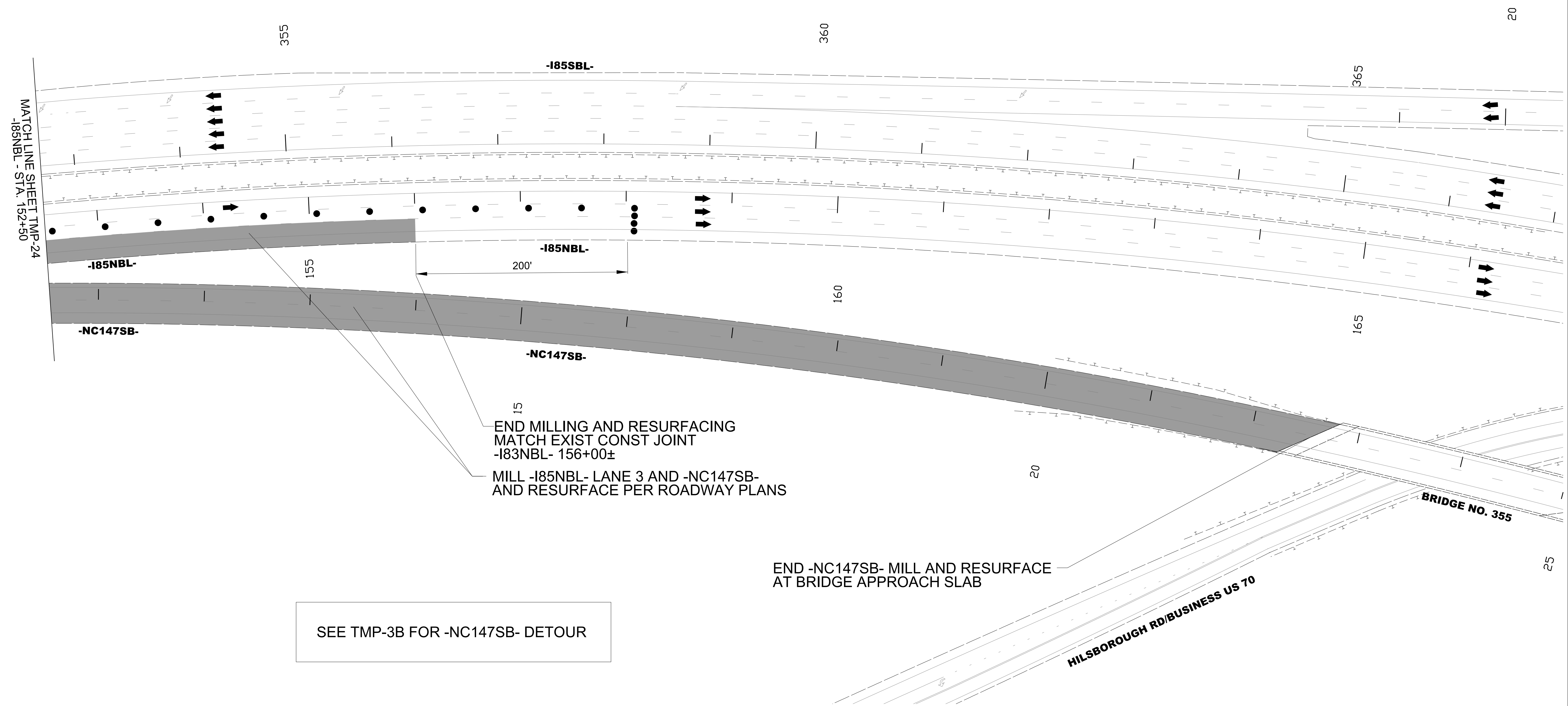
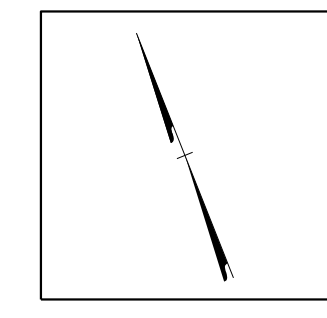
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**NC-147 SOUTHBOUND RAMP
-NC147SB-
RAMP CLOSURE**



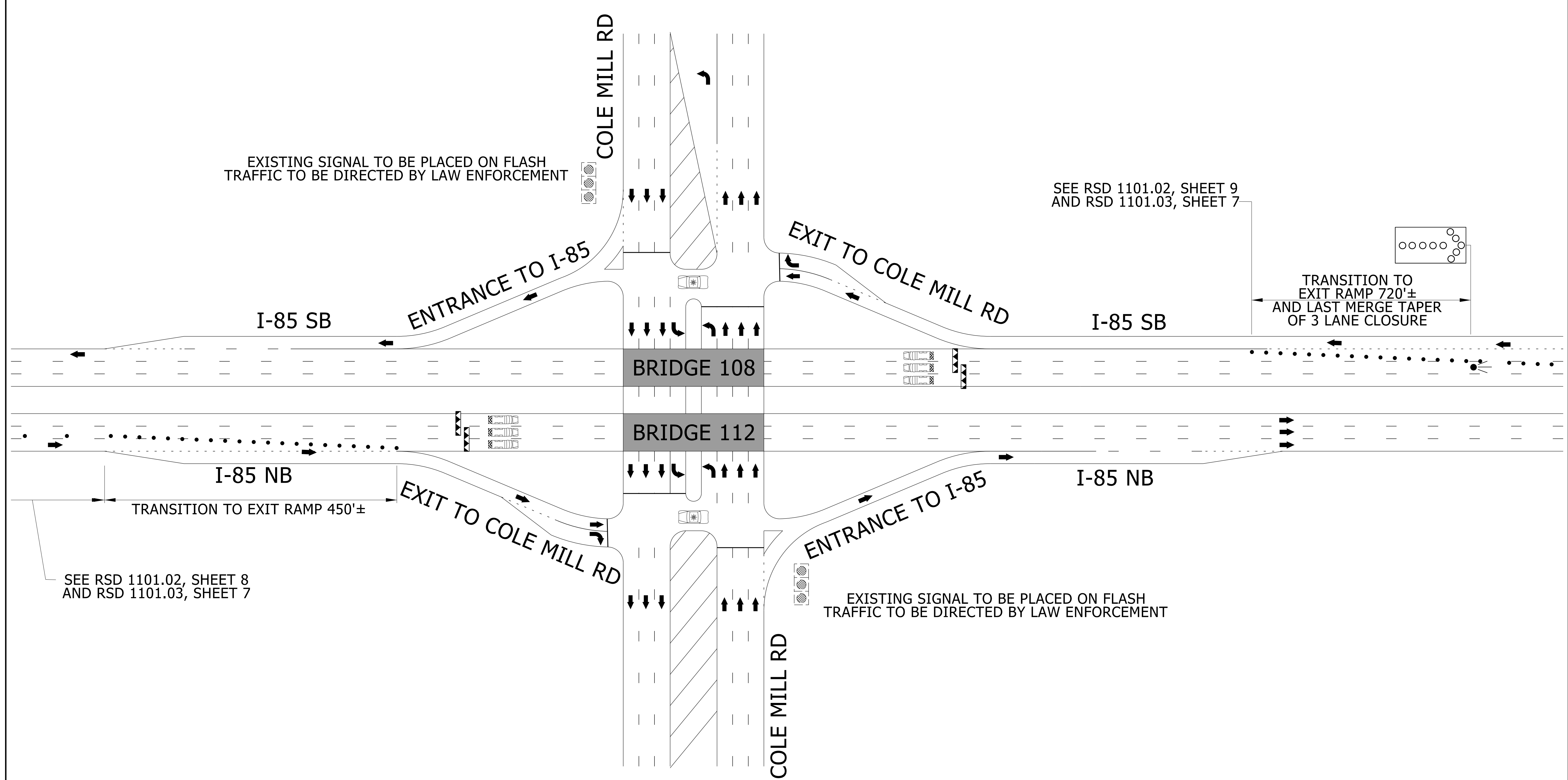
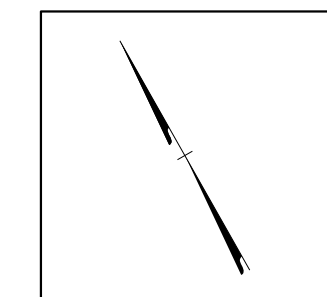
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 END MILLING AND RESURFACING
 MATCH EXIST CONST JOINT
 -I83NBL- 156+00±
 MILL -I85NBL- LANE 3 AND -NC147SB-
 AND RESURFACE PER ROADWAY PLANS

END -NC147SB- MILL AND RESURFACE
 AT BRIDGE APPROACH SLAB

SEE TMP-3B FOR -NC147SB- DETOUR

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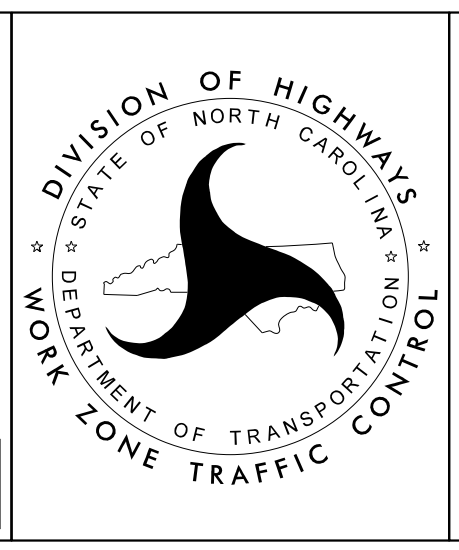


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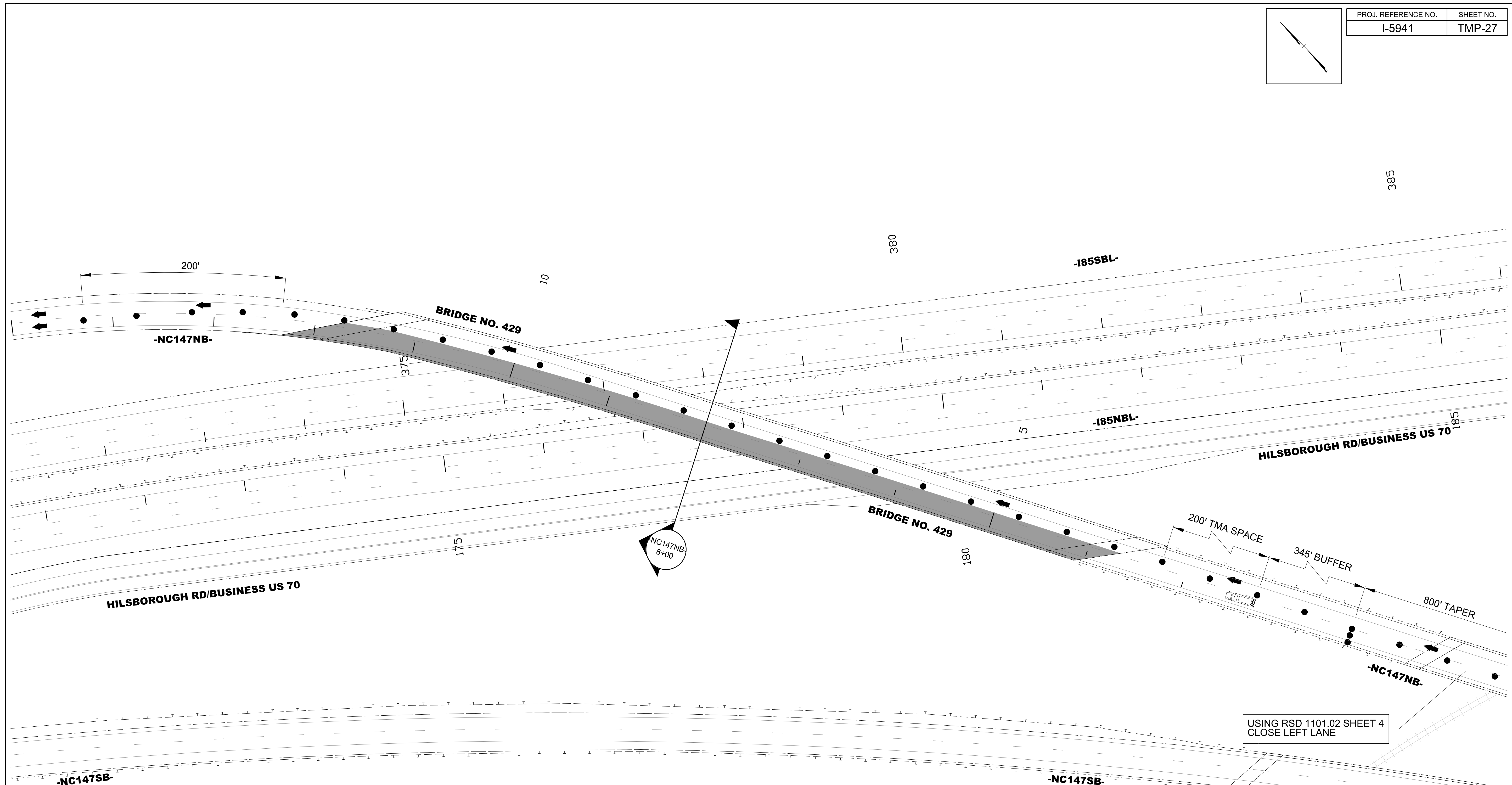
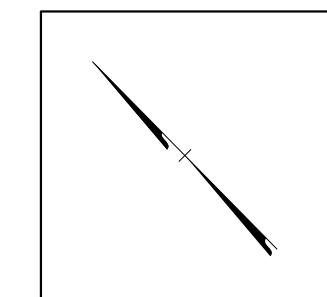
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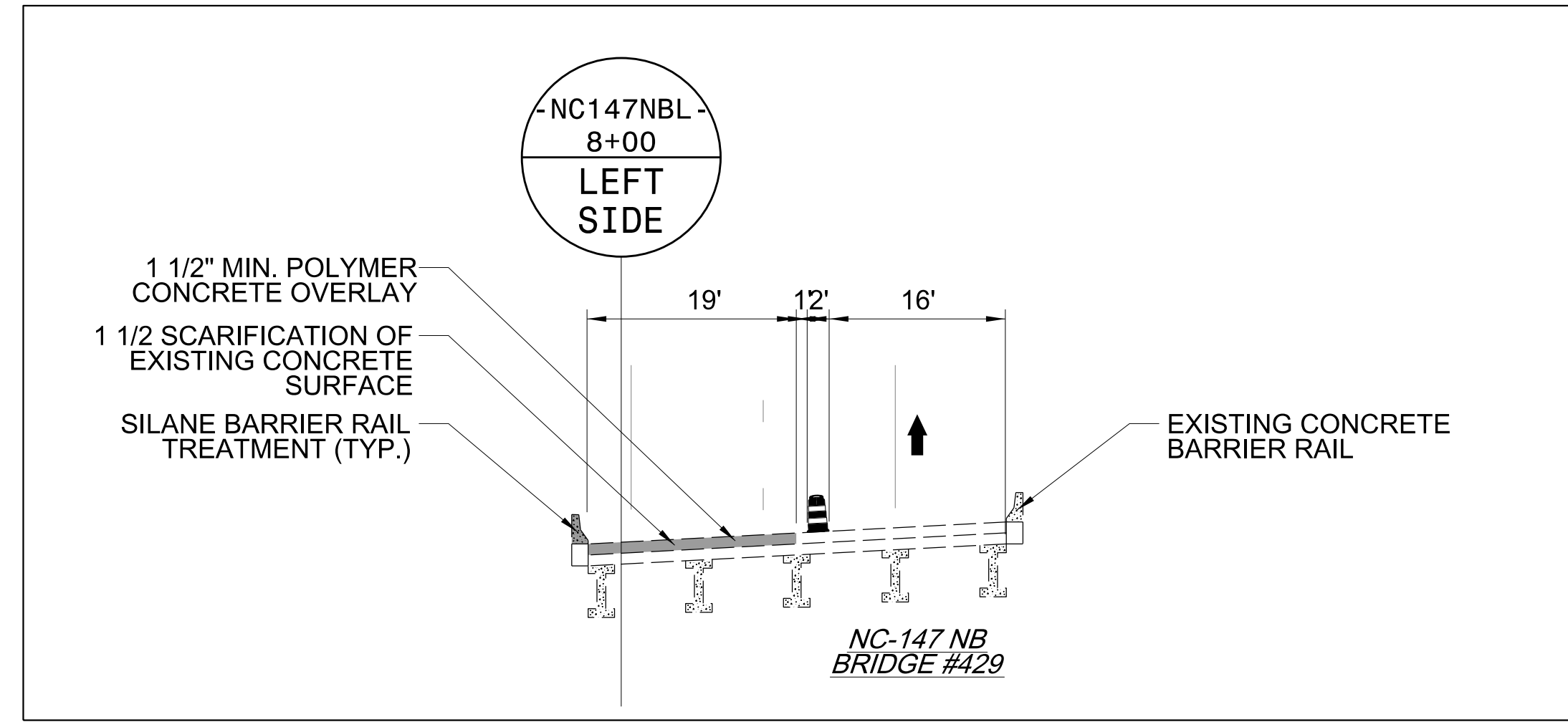
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**I-85 NORTHBOUND
 -I85BNL-
 I-85 SOUTHBOUND
 -I85SNL-
 BRIDGE REHABILITATIONS**



USING RSD 1101.02 SHEET 4
CLOSE LEFT LANE



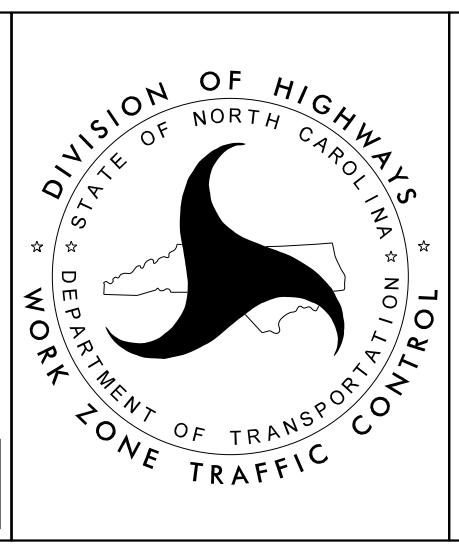
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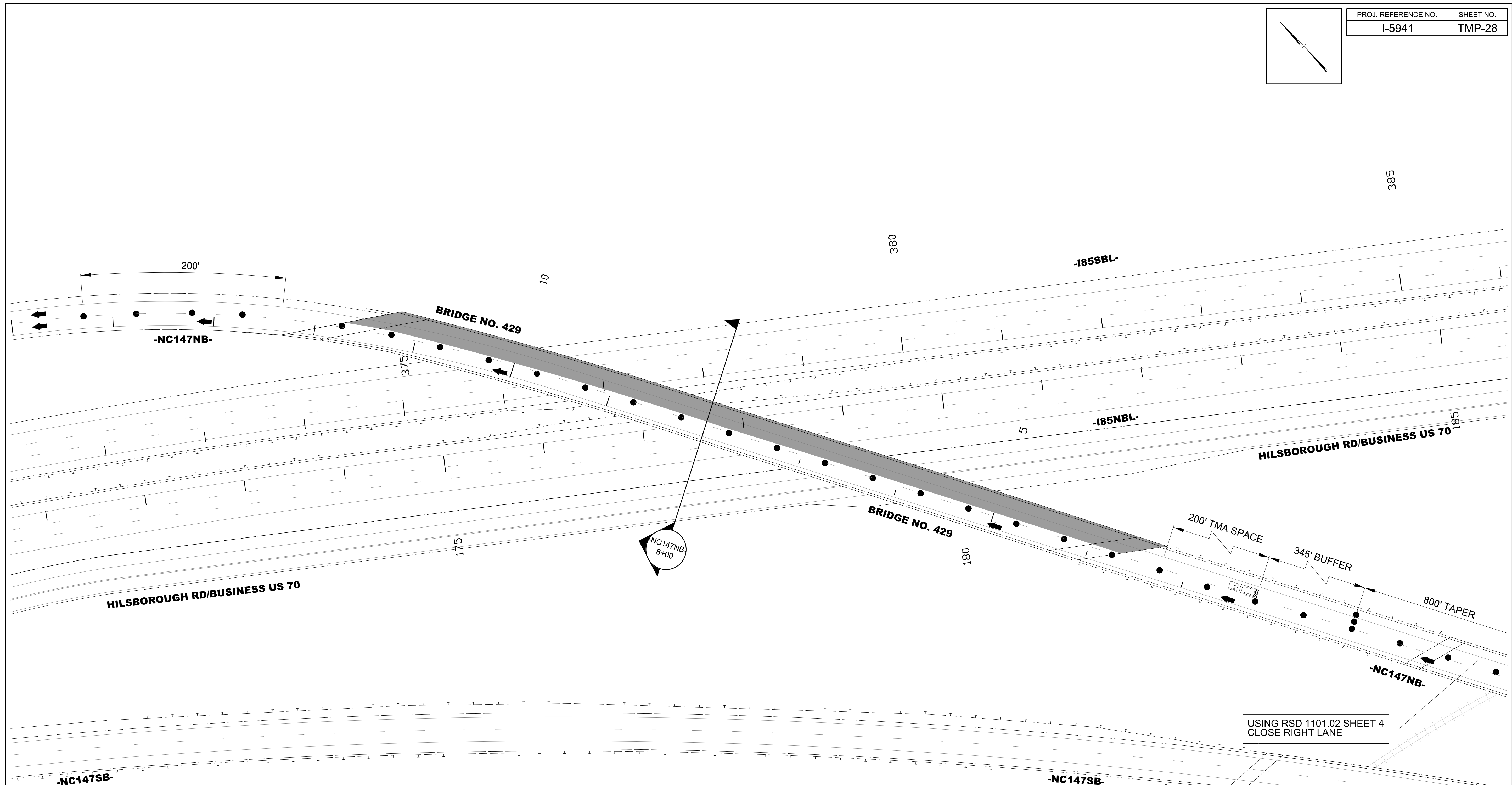
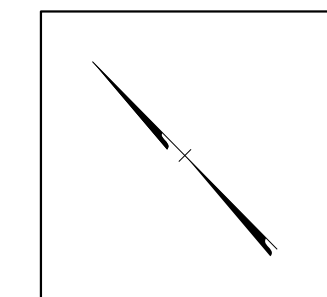
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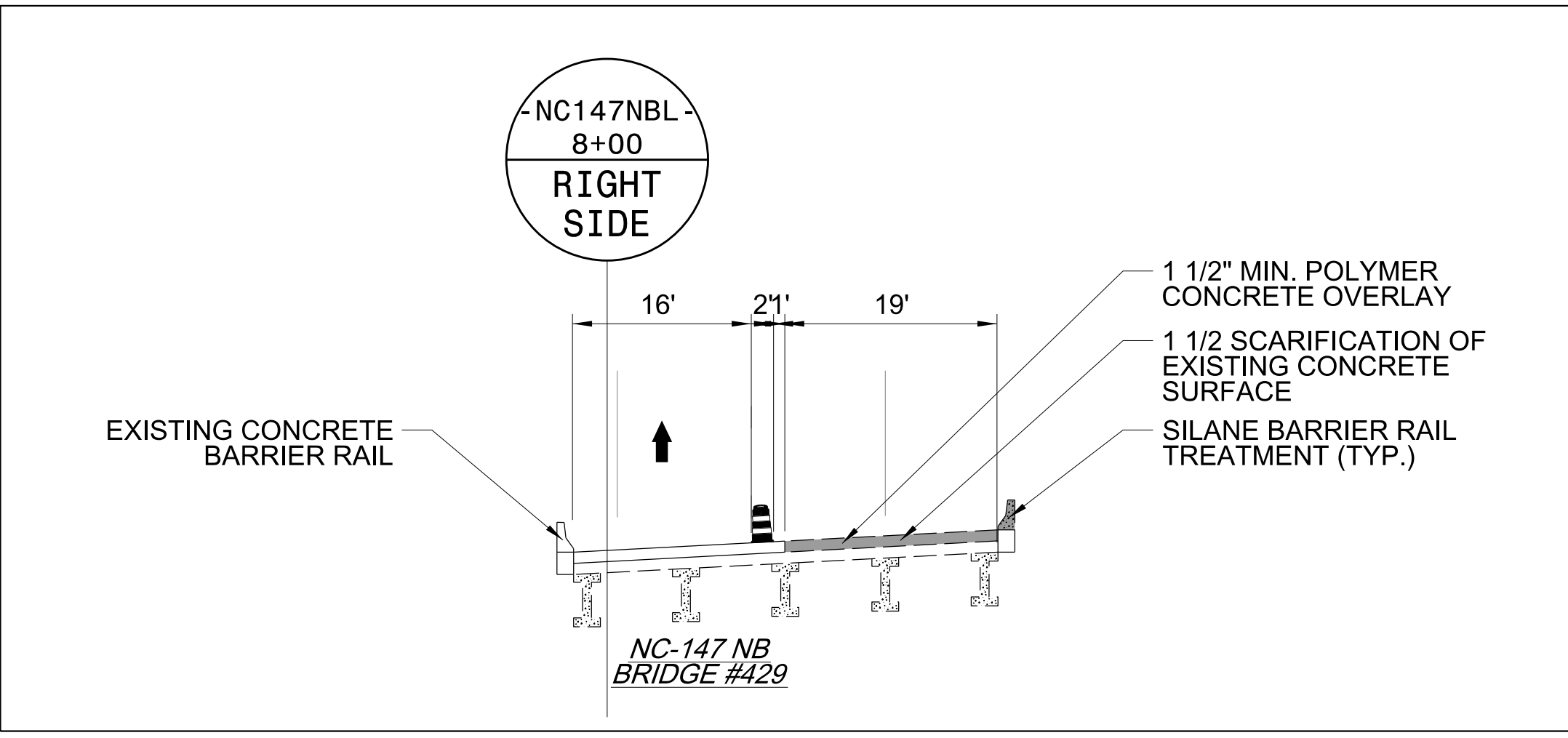
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**NC-147 NORTHBOUND
 -NC147NB-
 BRIDGE REHABILITATION
 LEFT SIDE**

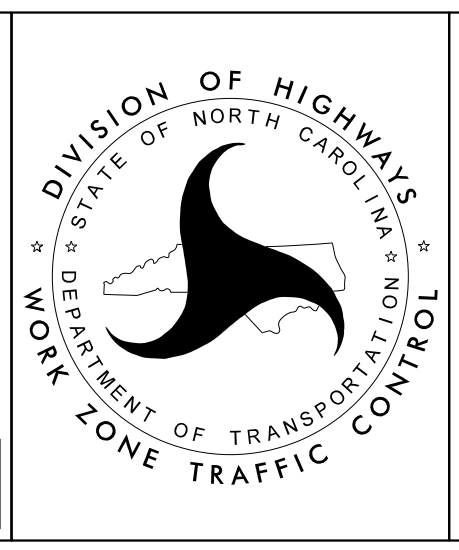


USING RSD 1101.02 SHEET 4
CLOSE RIGHT LANE



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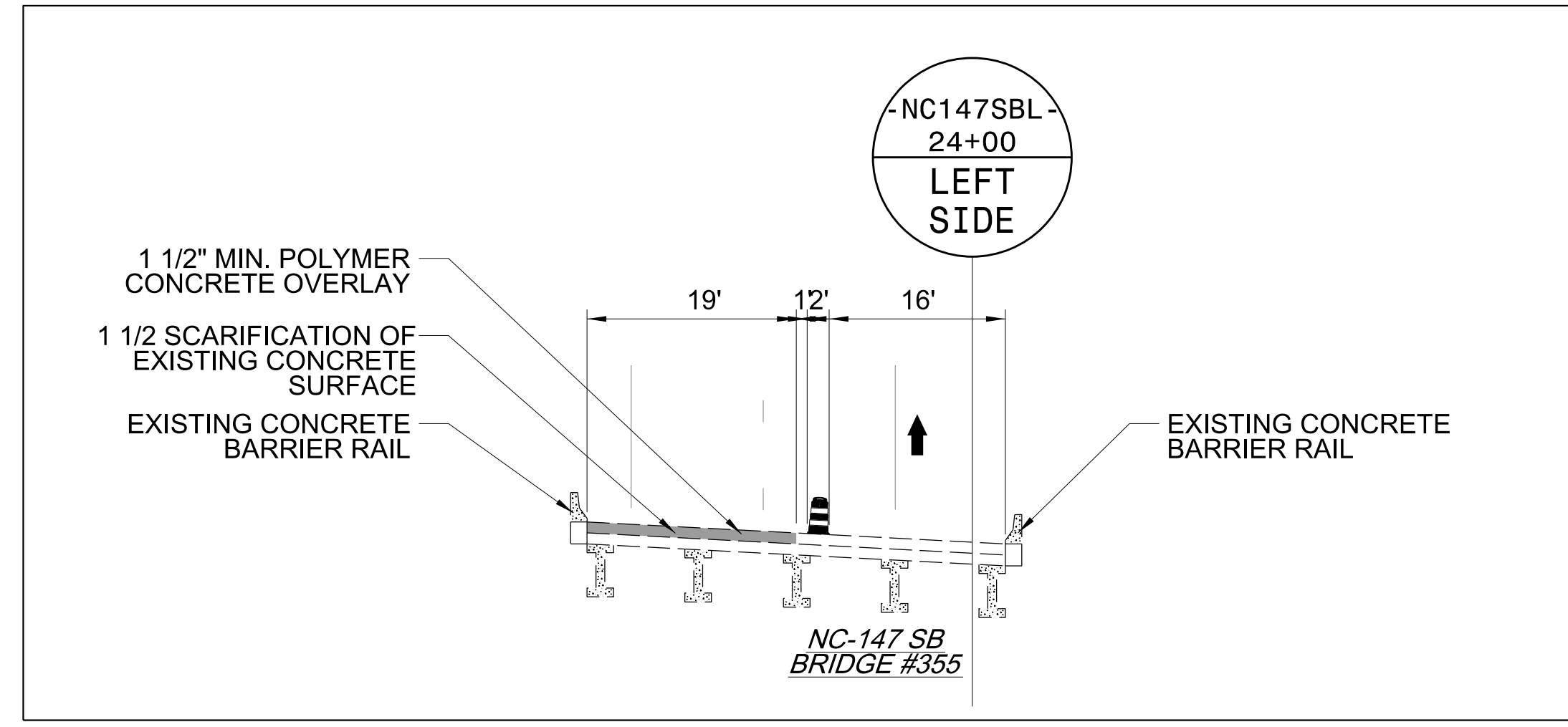
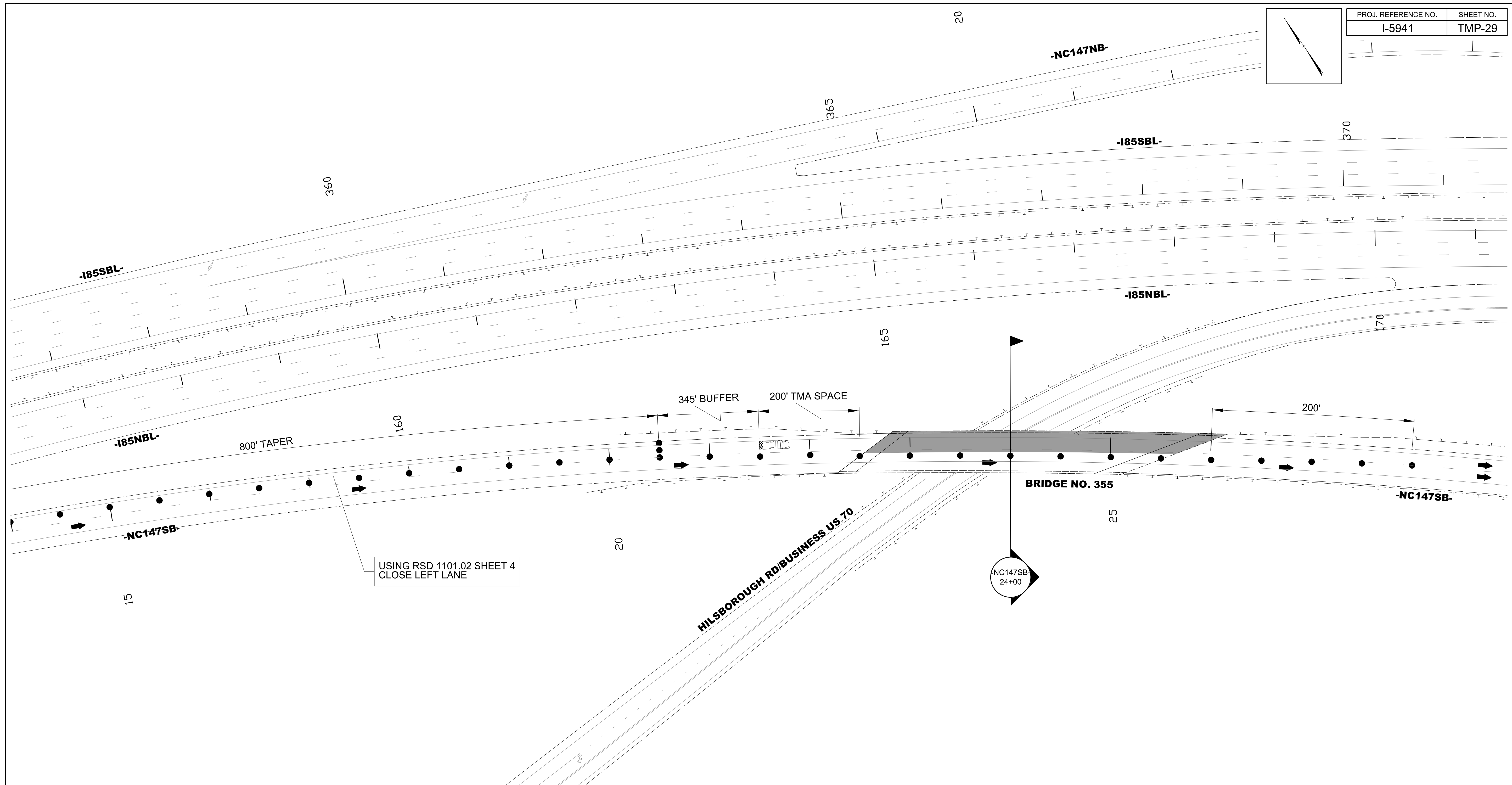
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**NC-147 NORTHBOUND
 -NC147NB-
 BRIDGE REHABILITATION
 RIGHT SIDE**

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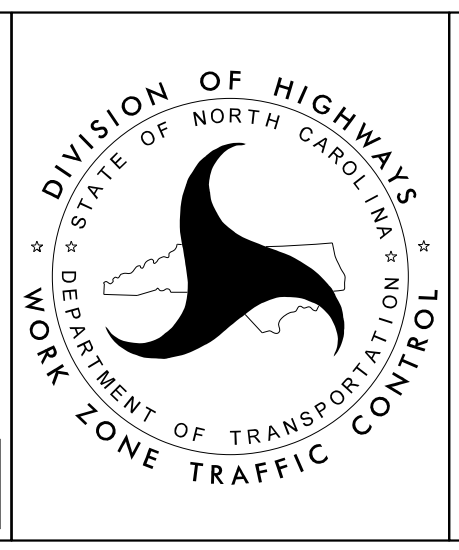
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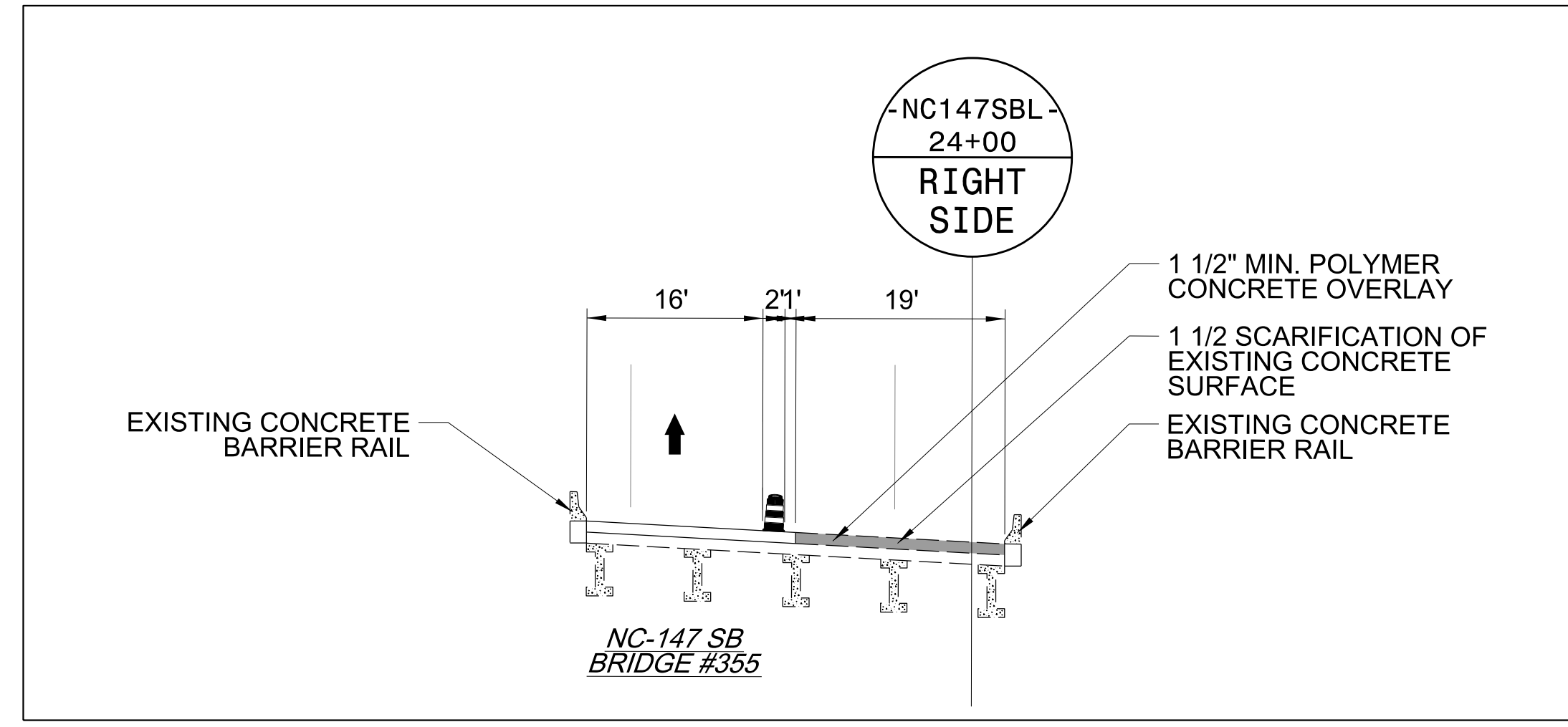
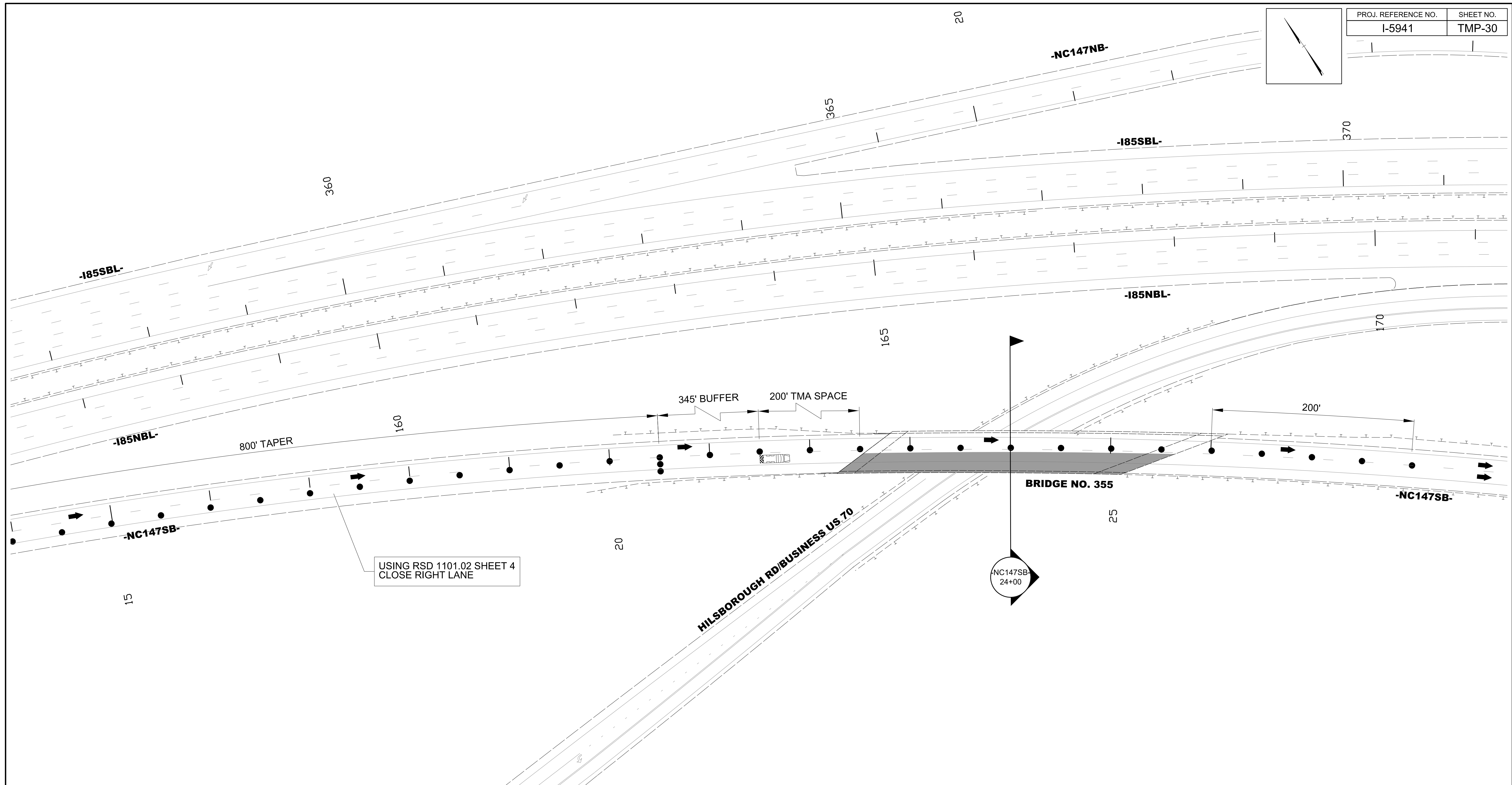
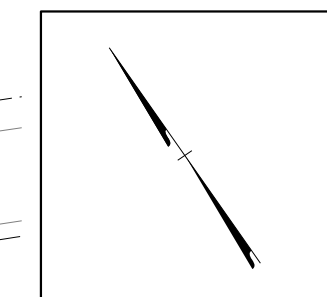
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NC-147 SOUTHBOUND
 -NC147SB-
 BRIDGE REHABILITATION
 LEFT SIDE

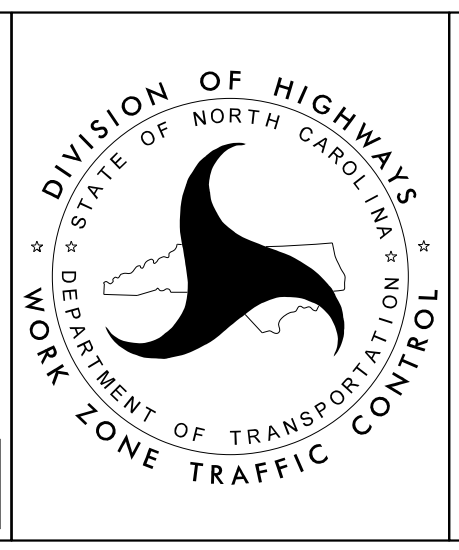
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I-5941	TMP-30



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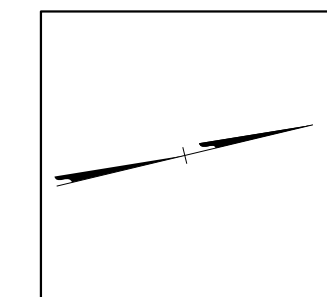
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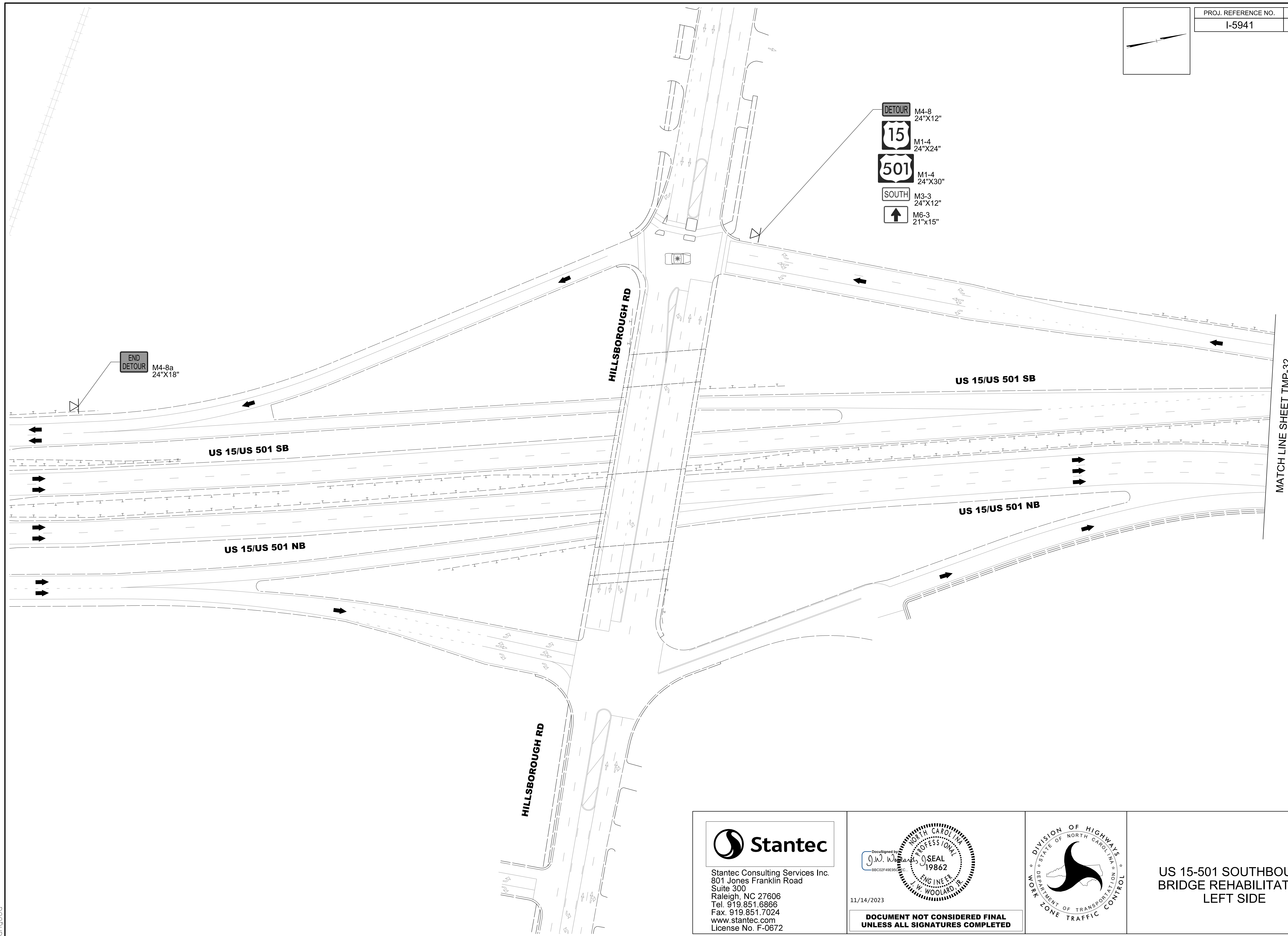
**NC-147 SOUTHBOUND
 -NC147SB-
 BRIDGE REHABILITATION
 RIGHT SIDE**

PROJ. REFERENCE NO.	SHEET NO.
I-5941	TMP-31



- M4-8
24"x12"
- M1-4
24"x24"
- M1-4
24"x30"
- M3-3
24"x12"
- M6-3
21"x15"

M4-8a
24"x18"

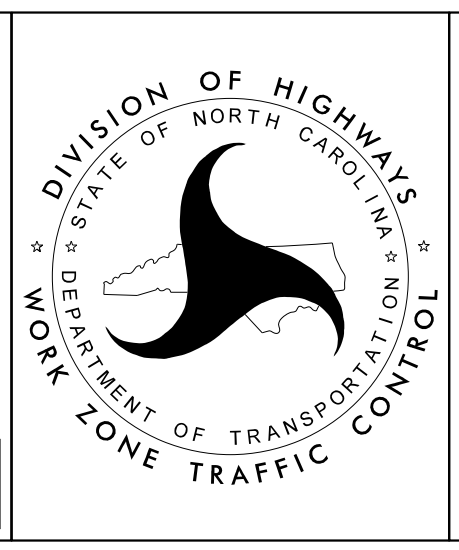


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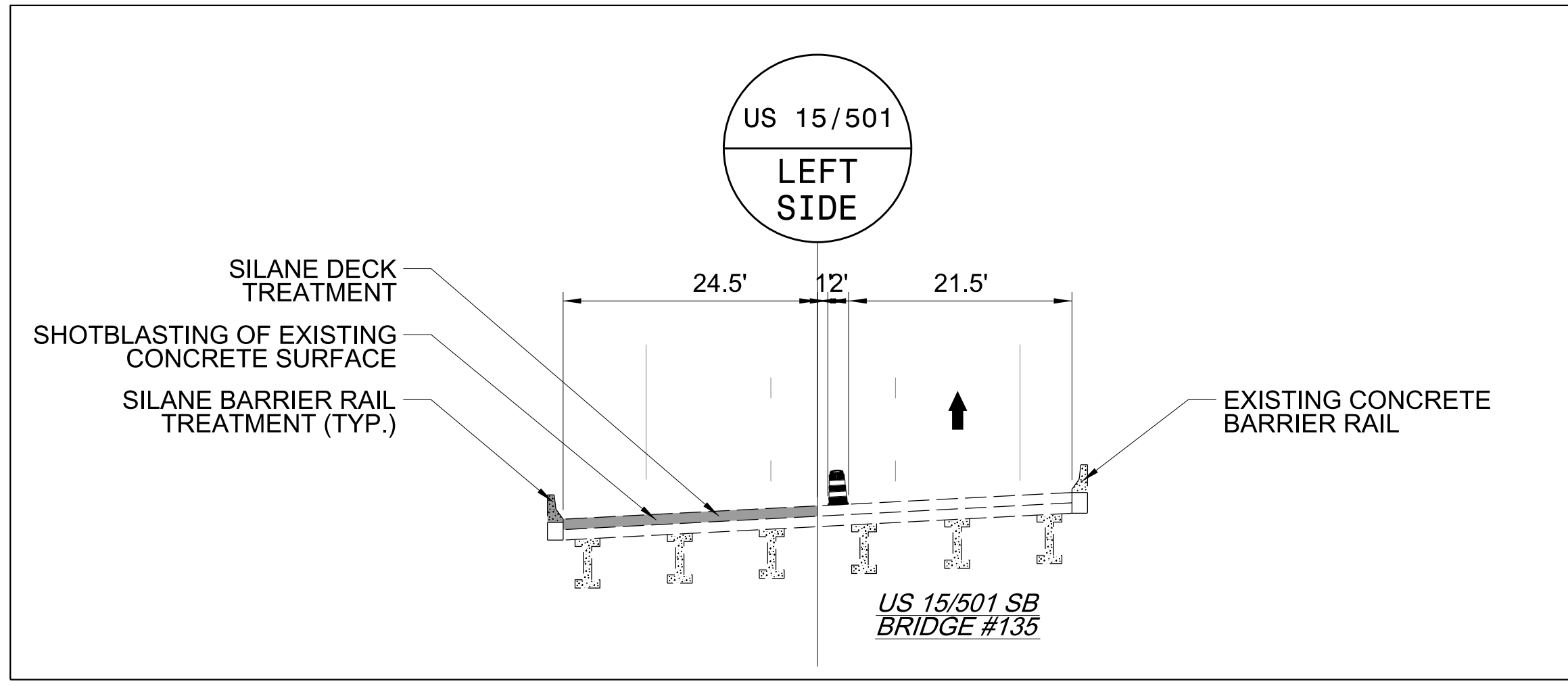
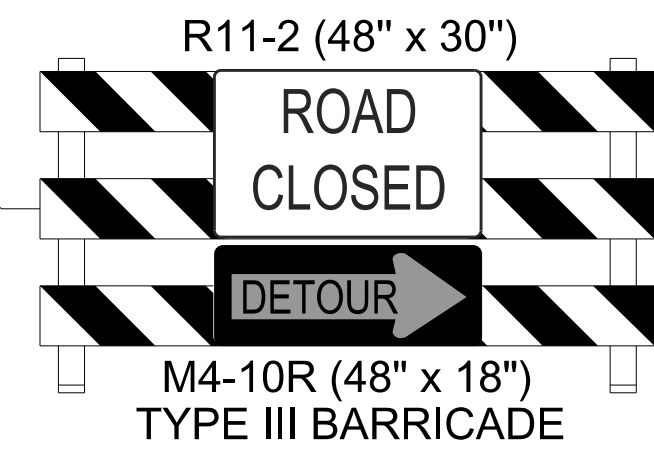
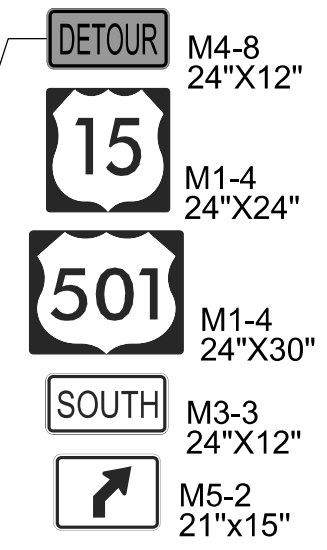
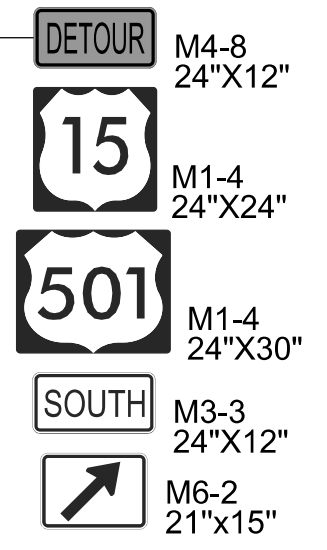
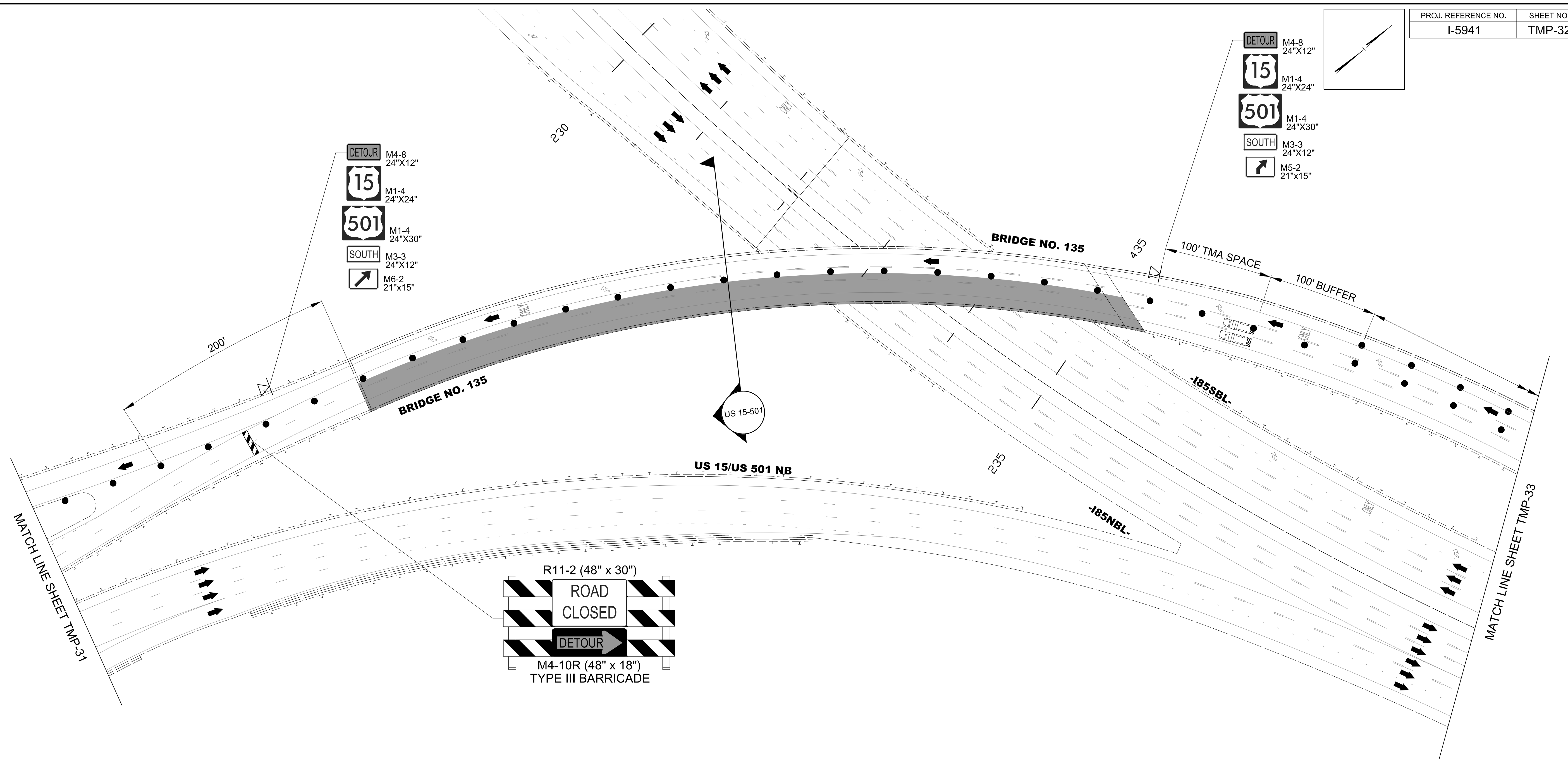
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**US 15-501 SOUTHBOUND
BRIDGE REHABILITATION
LEFT SIDE**



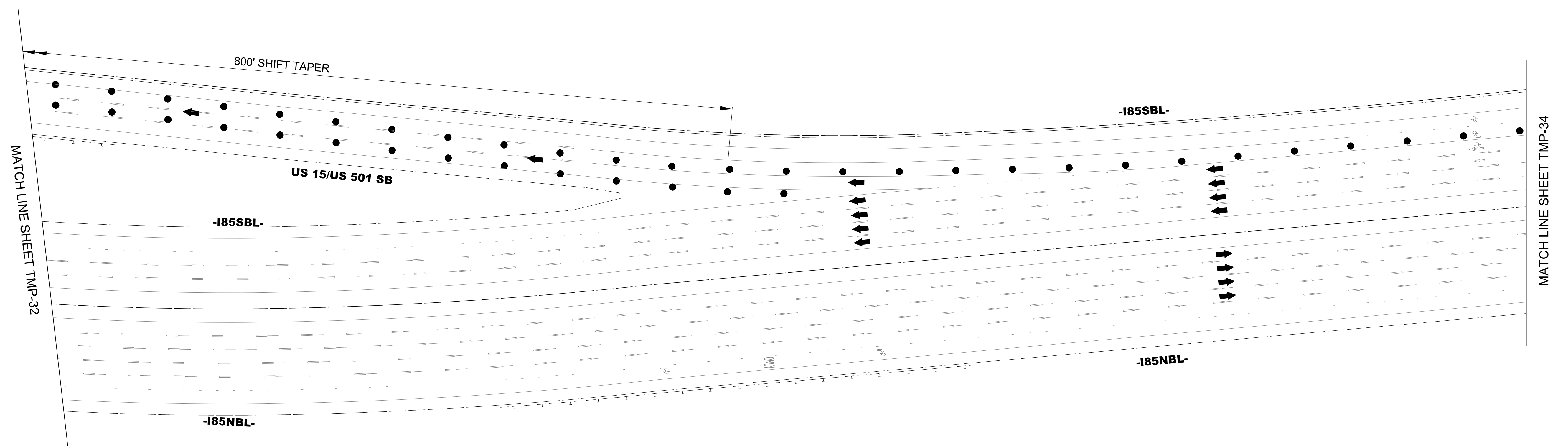
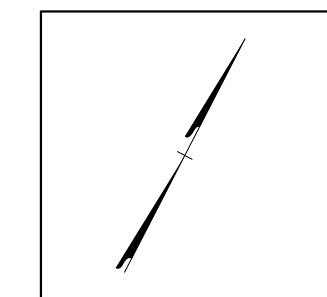
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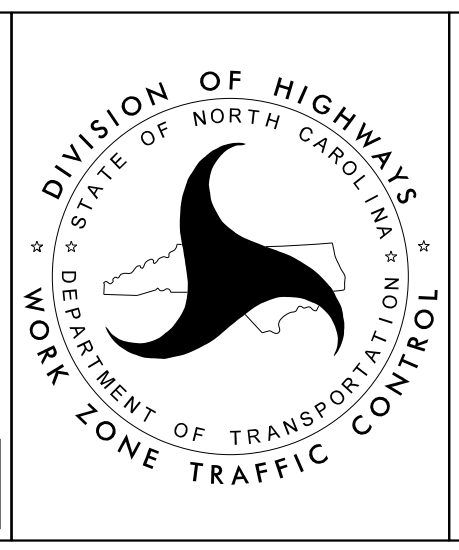
**US 15-501 SOUTHBOUND
 BRIDGE REHABILITATION
 LEFT SIDE**



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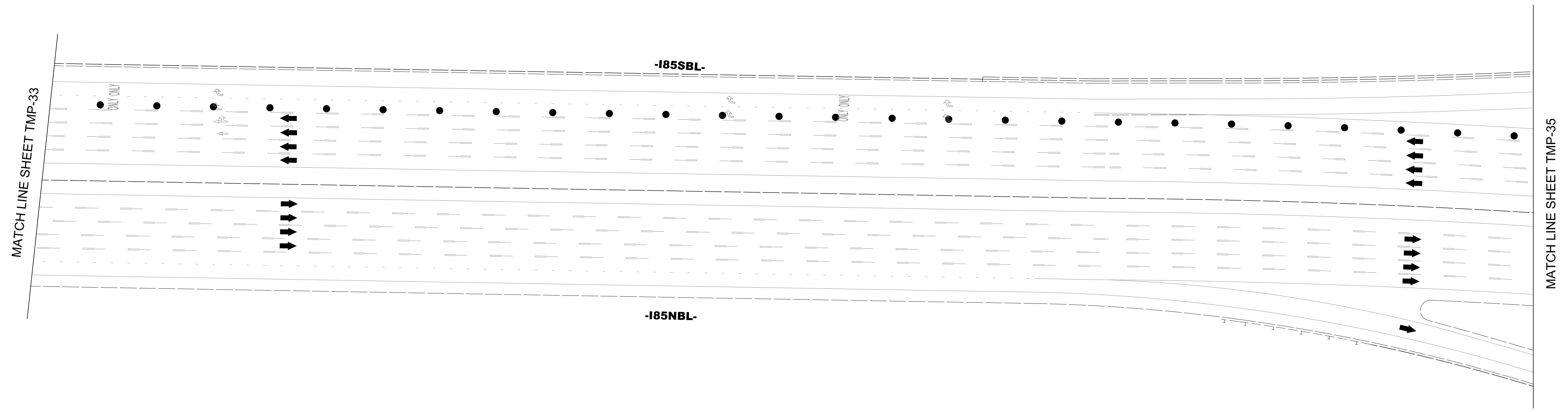
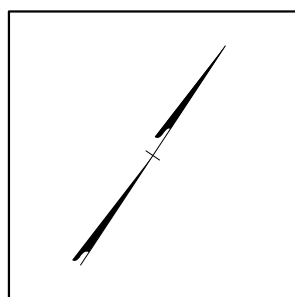
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**US 15-501 SOUTHBOUND
 BRIDGE REHABILITATION
 LEFT SIDE**

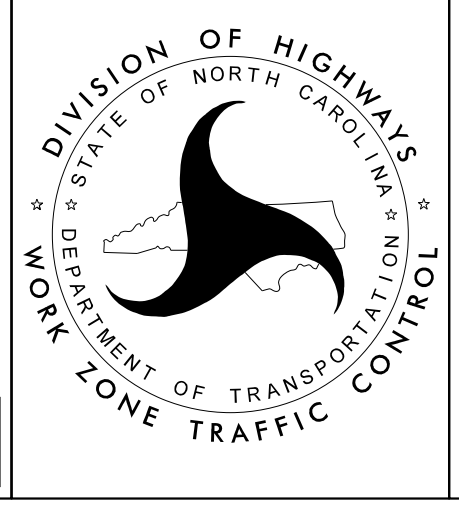
PROJ. REFERENCE NO.	SHEET NO.
I-5941	TMP-34



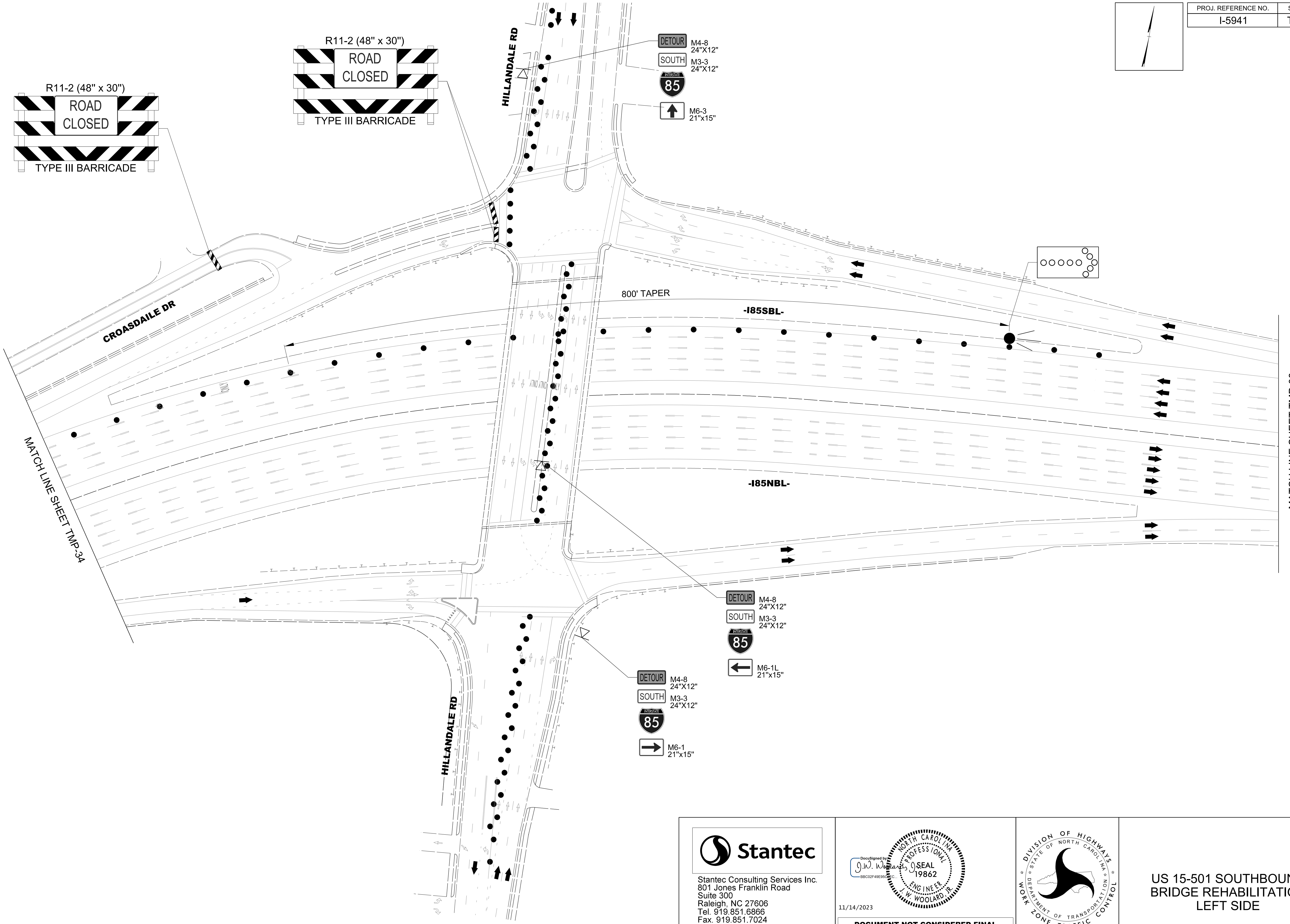
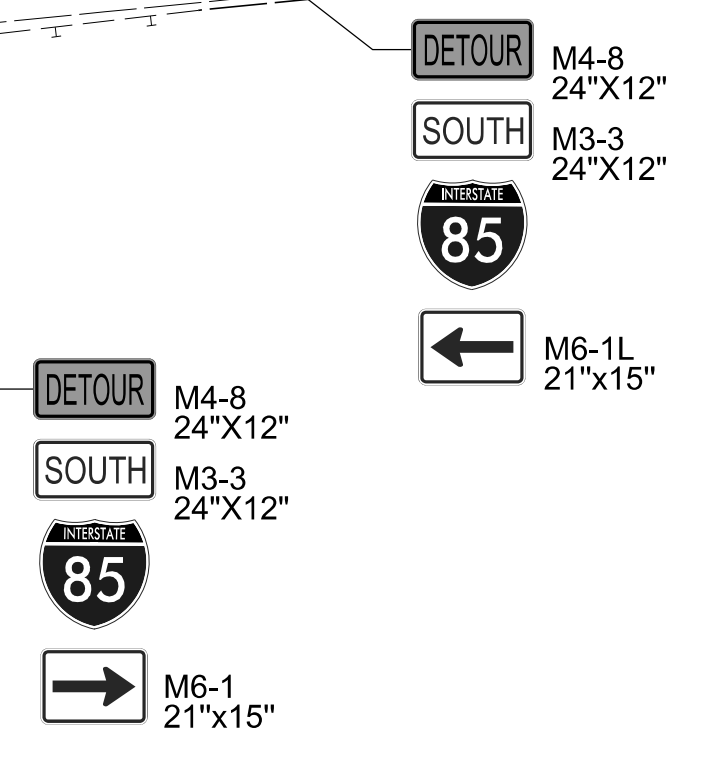
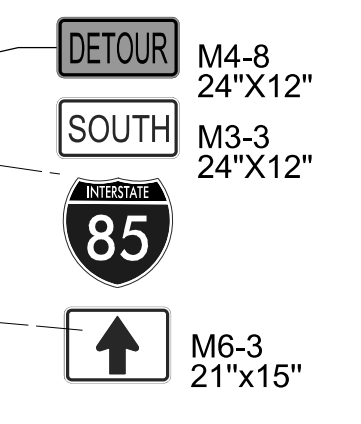
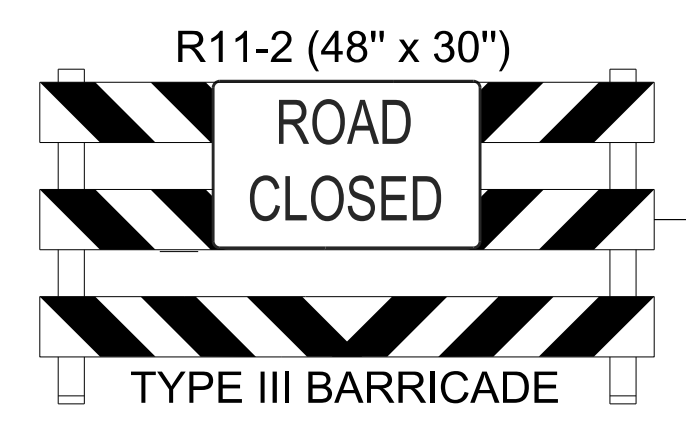
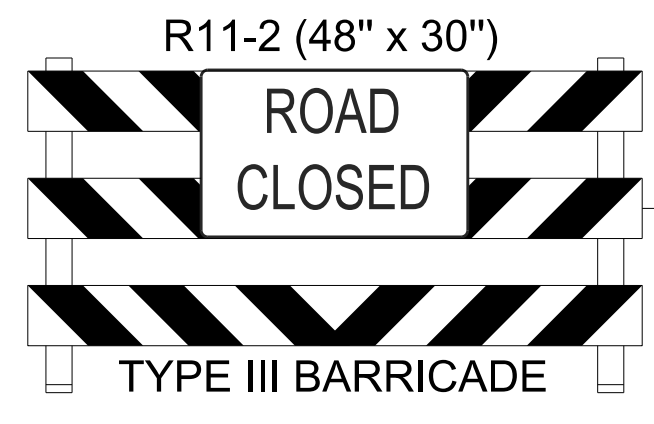
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**US 15-501 SOUTHBOUND
 BRIDGE REHABILITATION
 LEFT SIDE**



MATCH LINE SHEET TMP-34

MATCH LINE SHEET TMP-36

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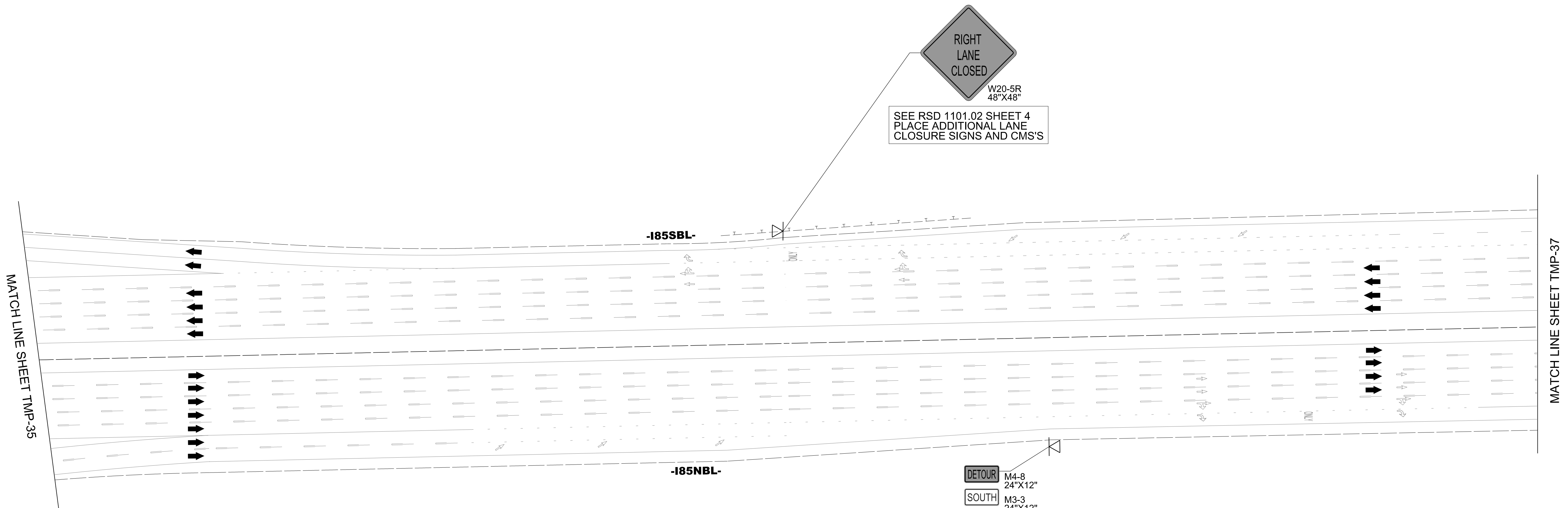
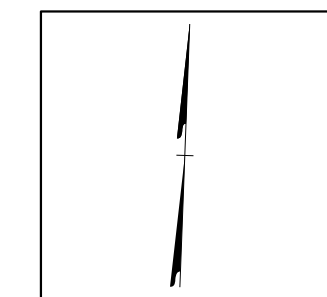
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US 15-501 SOUTHBOUND
BRIDGE REHABILITATION
LEFT SIDE

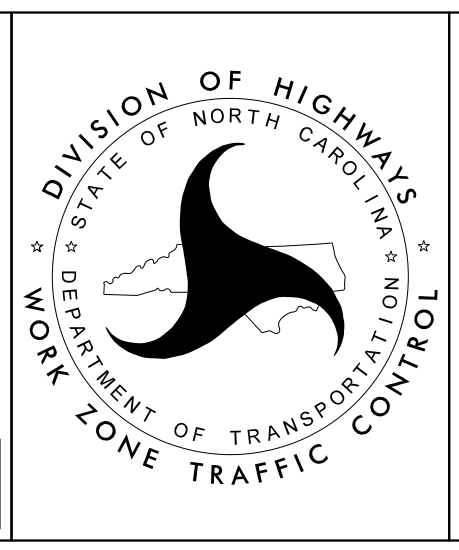


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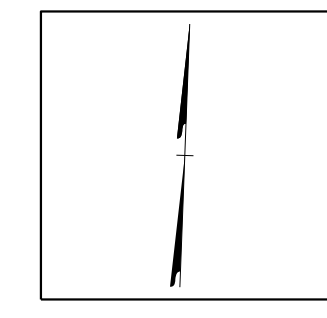
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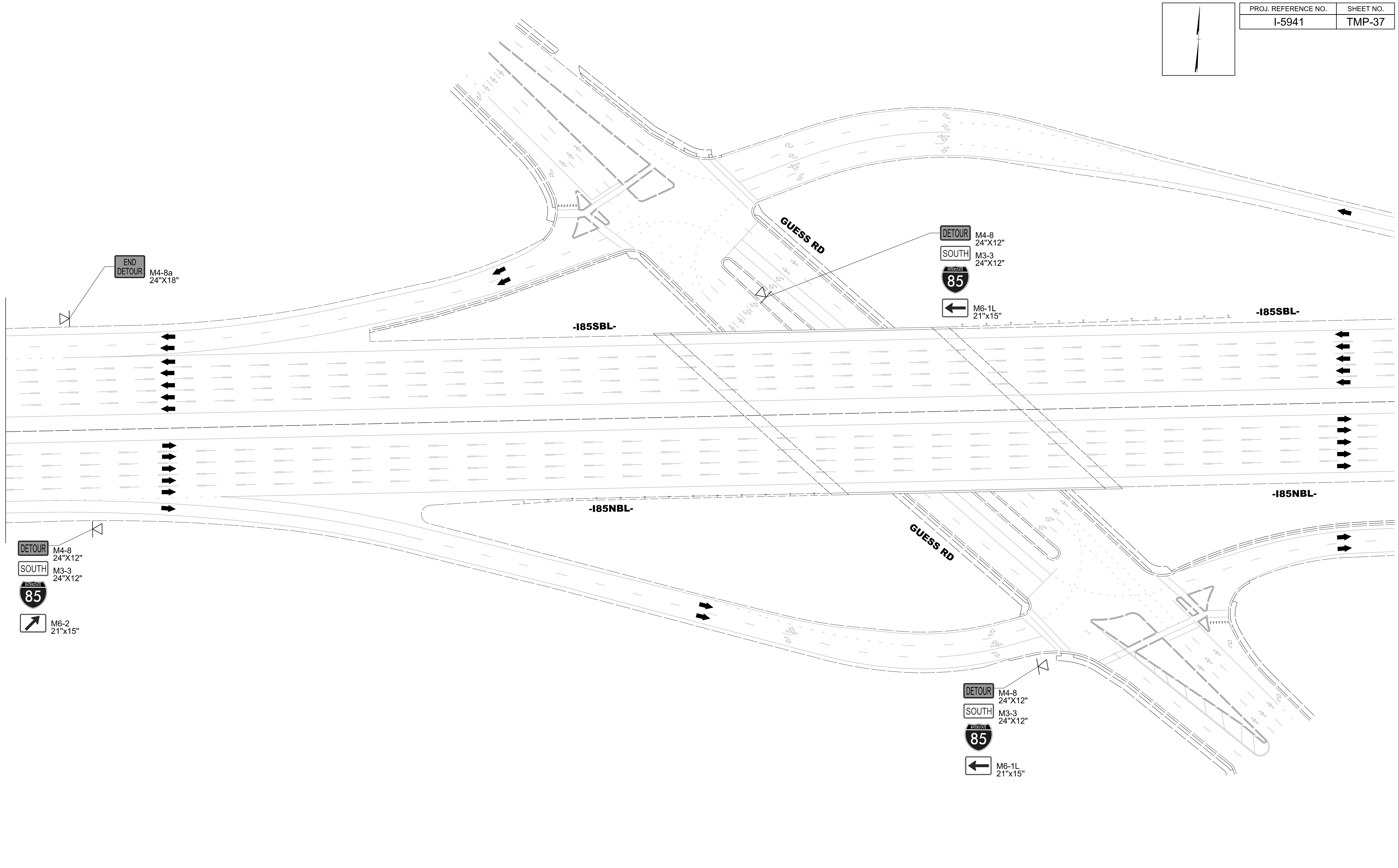
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**US 15-501 SOUTHBOUND
 BRIDGE REHABILITATION
 LEFT SIDE**



MATCH LINE SHEET TMP-36



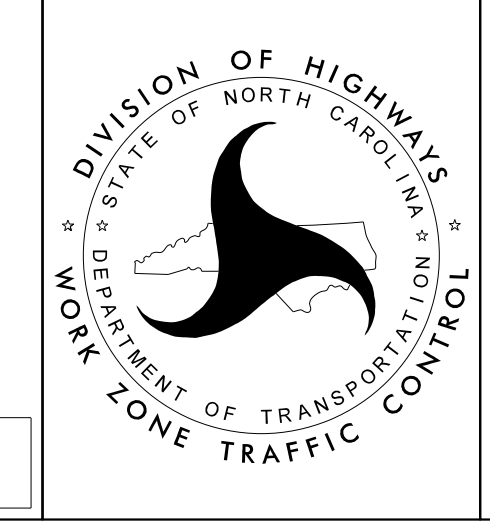
DETOUR M4-8
24"x12"
SOUTH M3-3
24"x12"
85 M3-3
24"x12"
M6-2
21"x15"

DETOUR M4-8
24"x12"
SOUTH M3-3
24"x12"
85 M3-3
24"x12"
M6-1L
21"x15"

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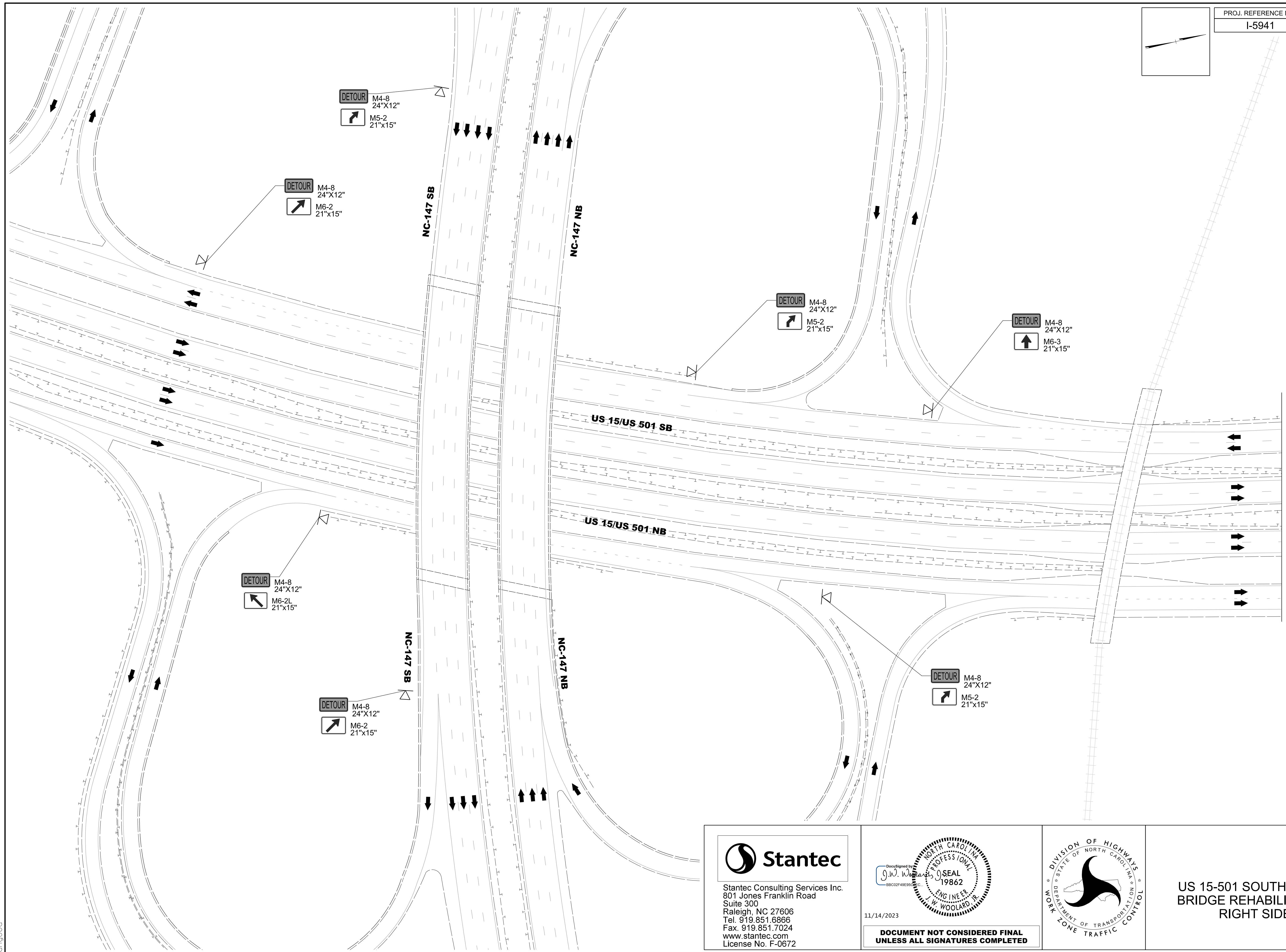
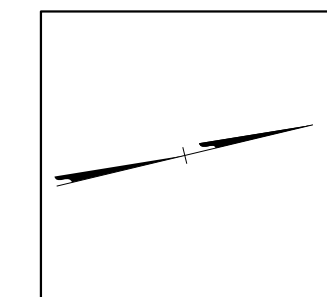
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US 15-501 SOUTHBOUND
BRIDGE
LEFT SIDE

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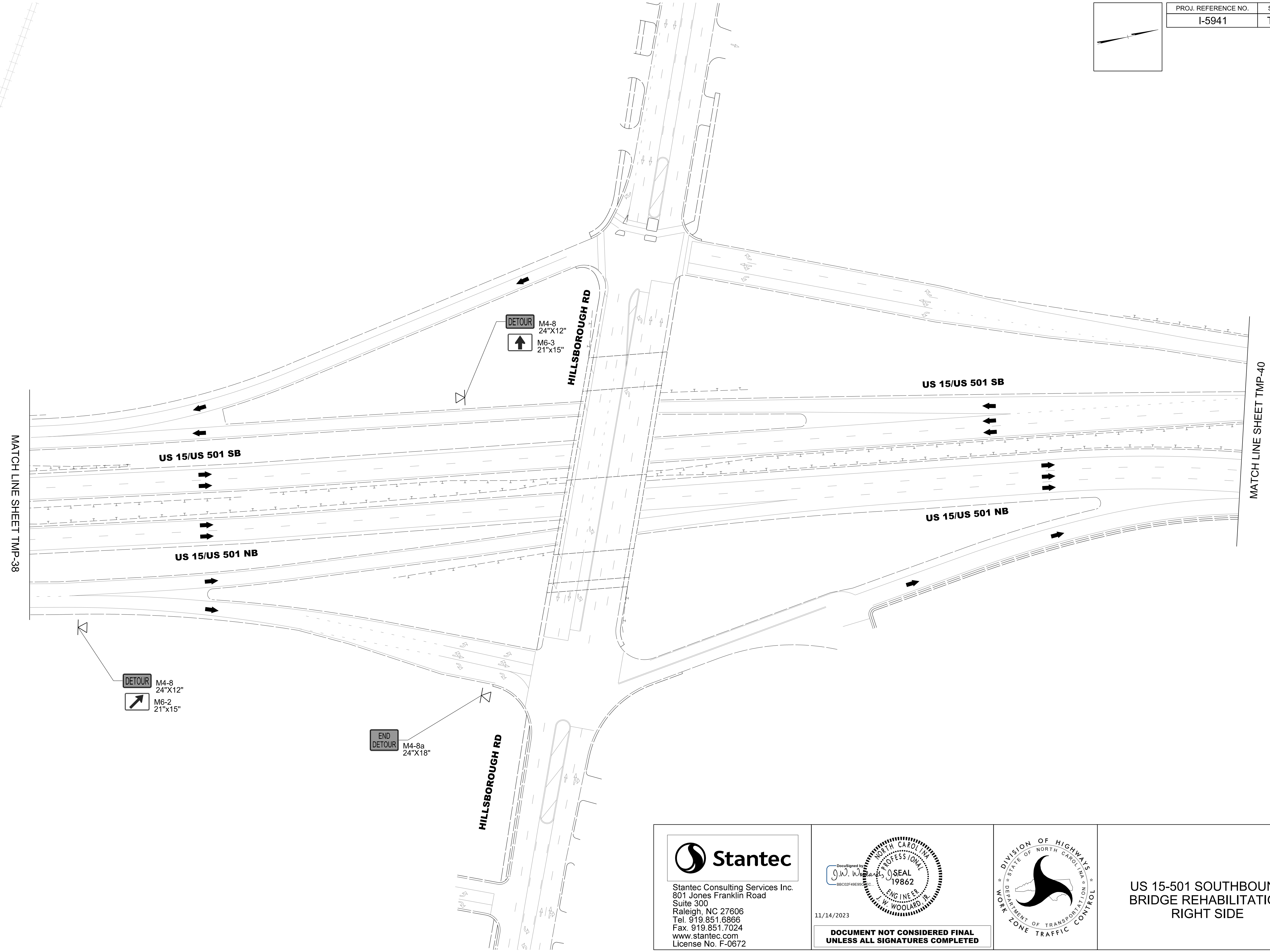
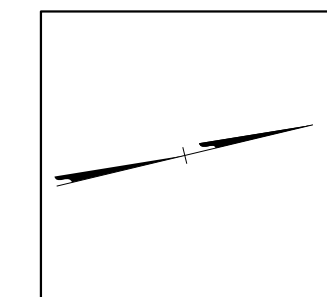


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MATCH LINE SHEET TMP-39

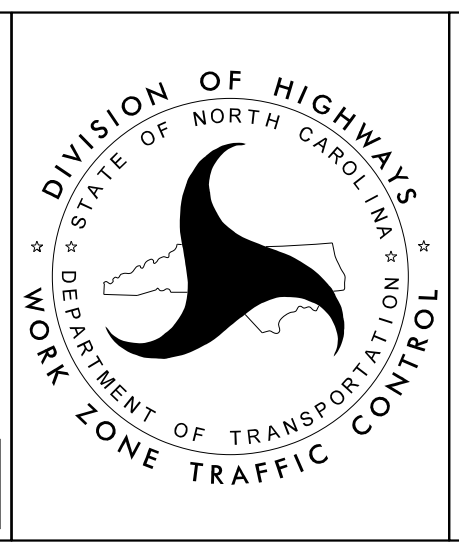
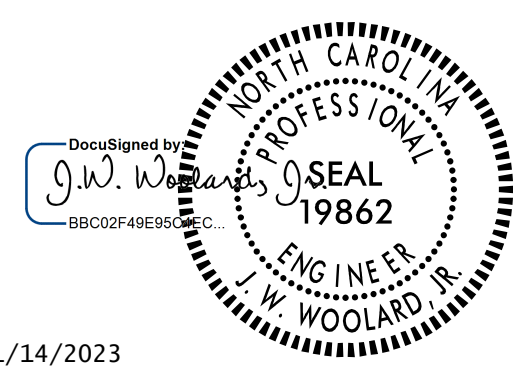
PROJ. REFERENCE NO.	SHEET NO.
I-5941	TMP-39



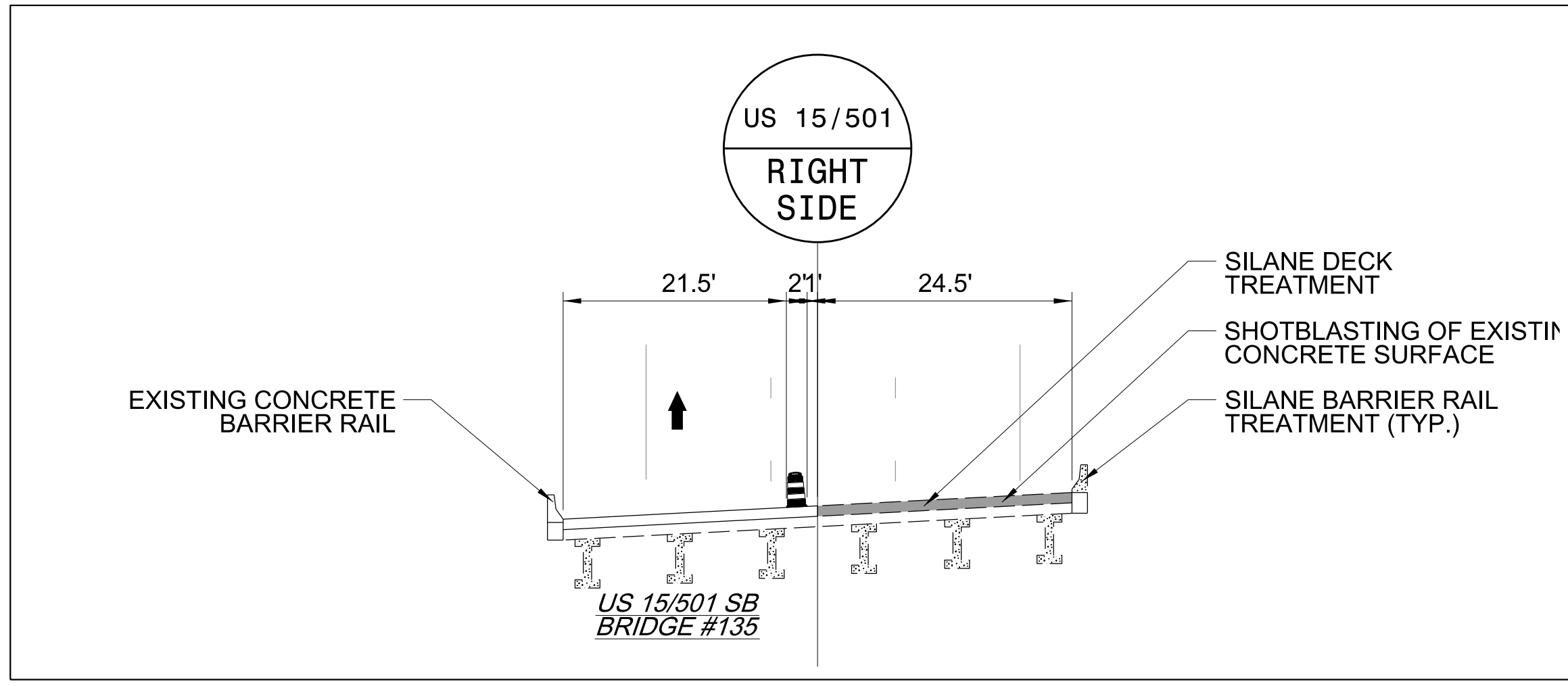
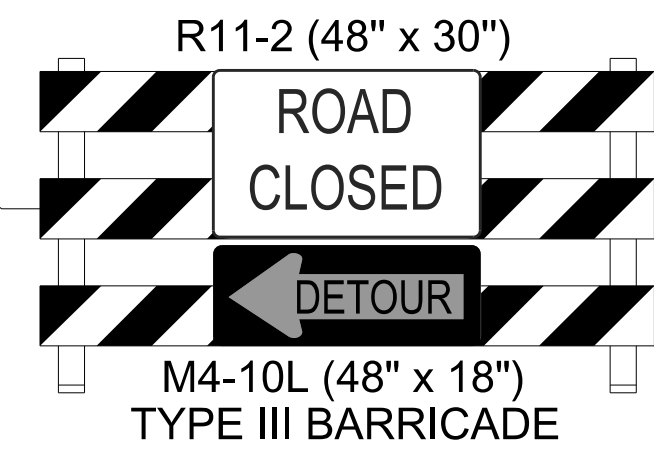
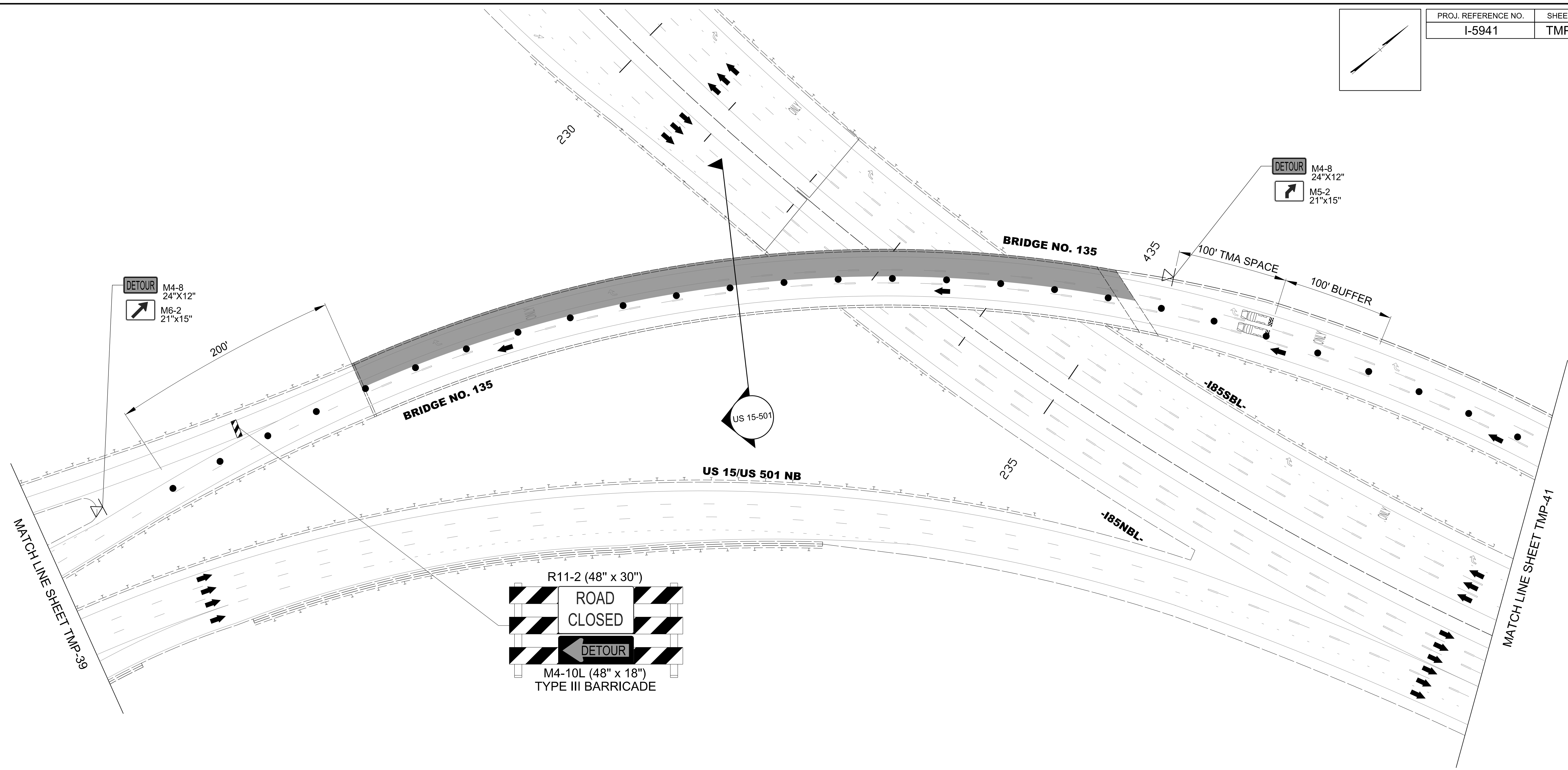
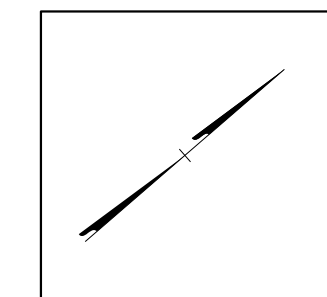
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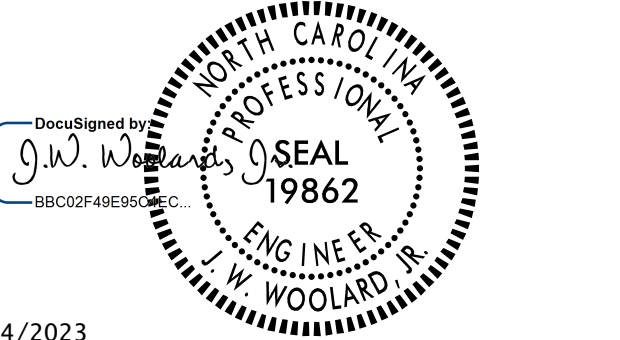


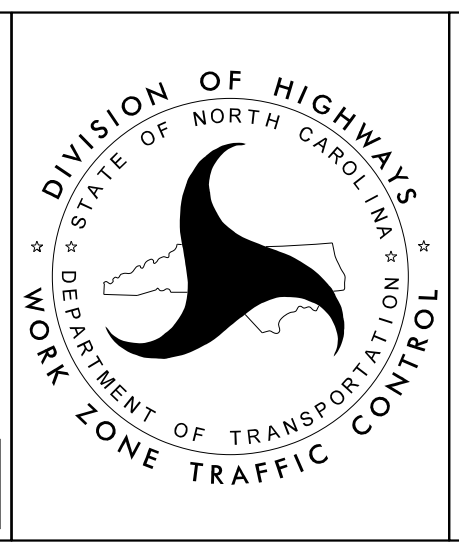
**US 15-501 SOUTHBOUND
 BRIDGE REHABILITATION
 RIGHT SIDE**



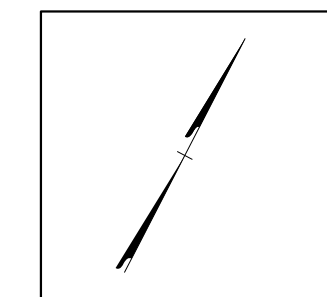
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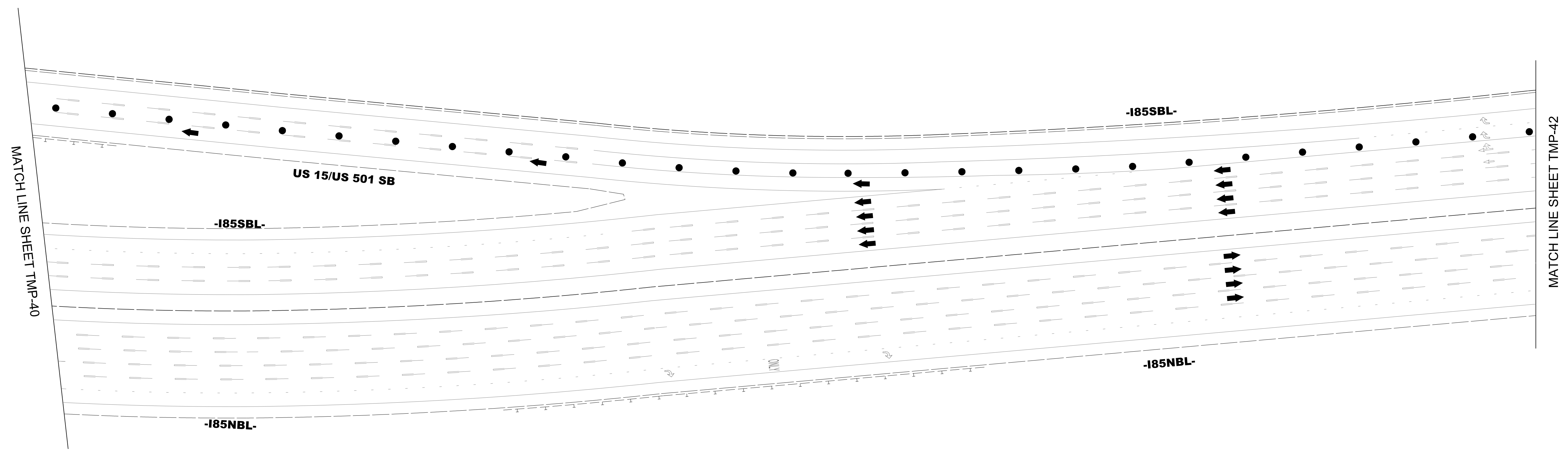
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**US 15-501 SOUTHBOUND
 BRIDGE REHABILITATION
 RIGHT SIDE**



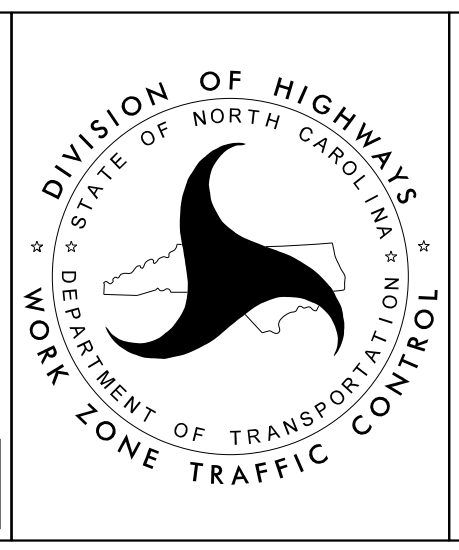
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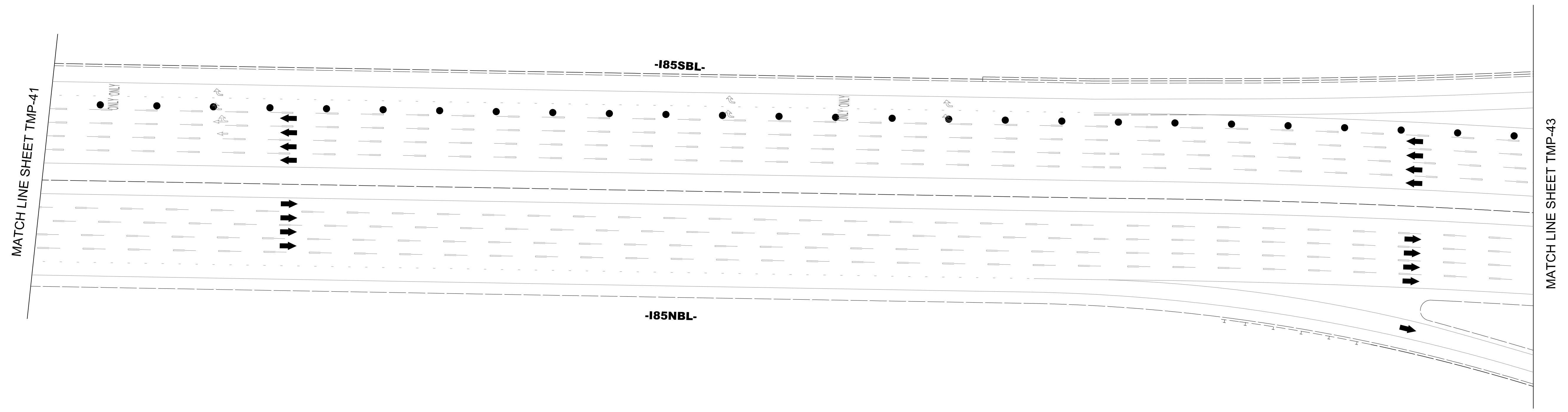
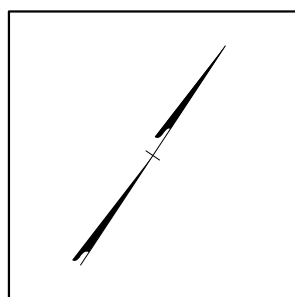
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**US 15-501 SOUTHBOUND
 BRIDGE REHABILITATION
 RIGHT SIDE**

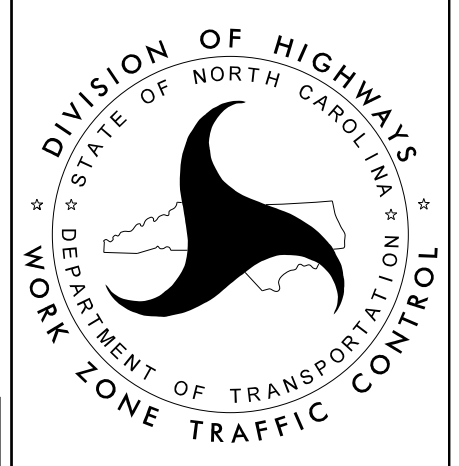
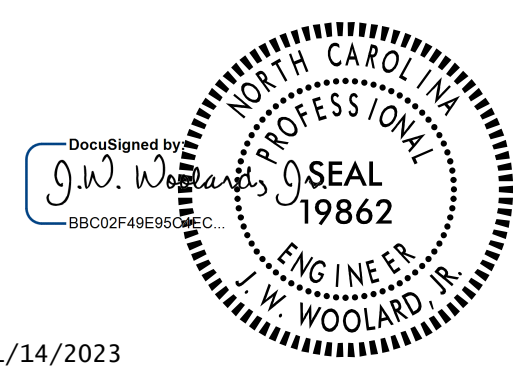
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I-5941	TMP-42



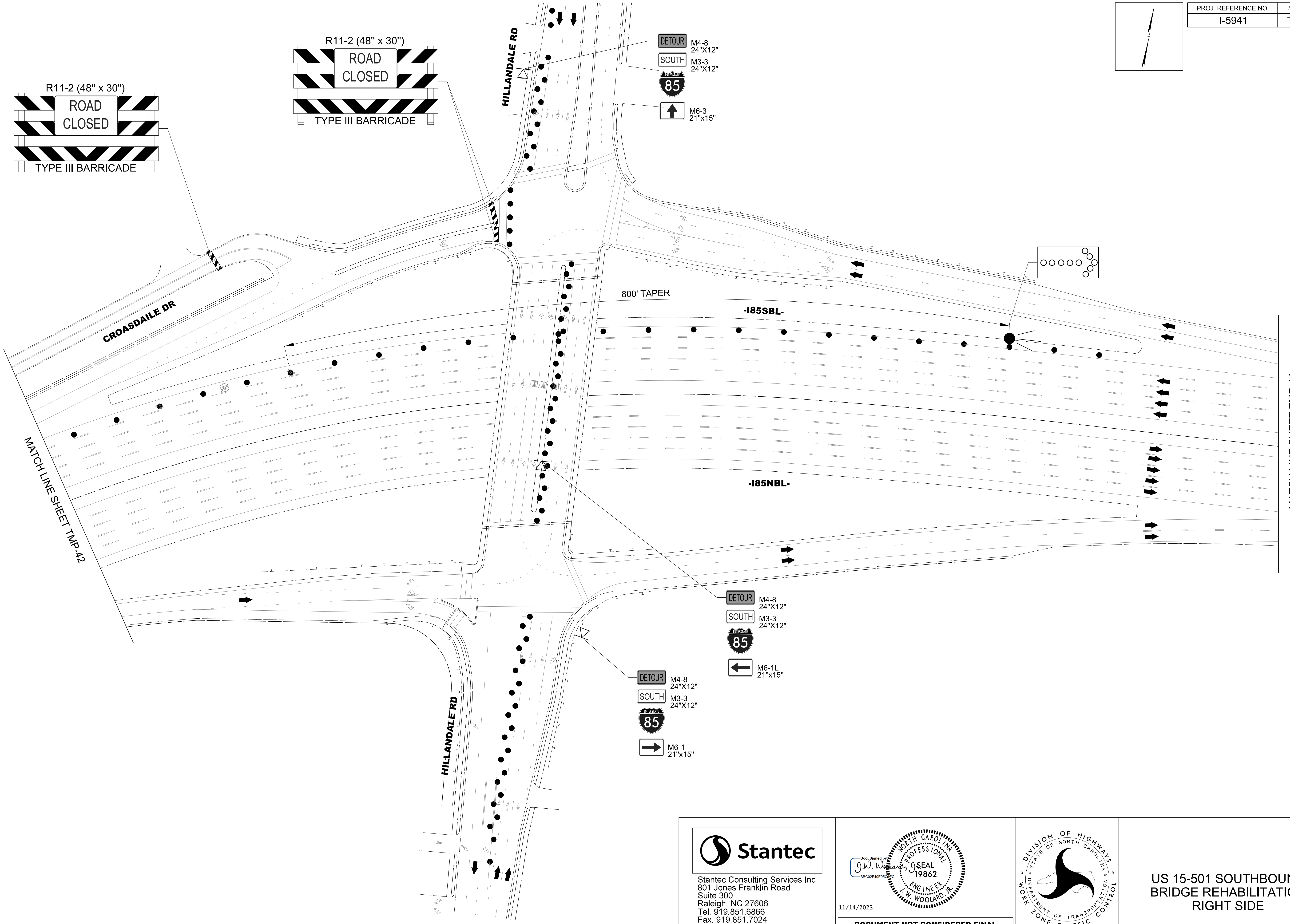
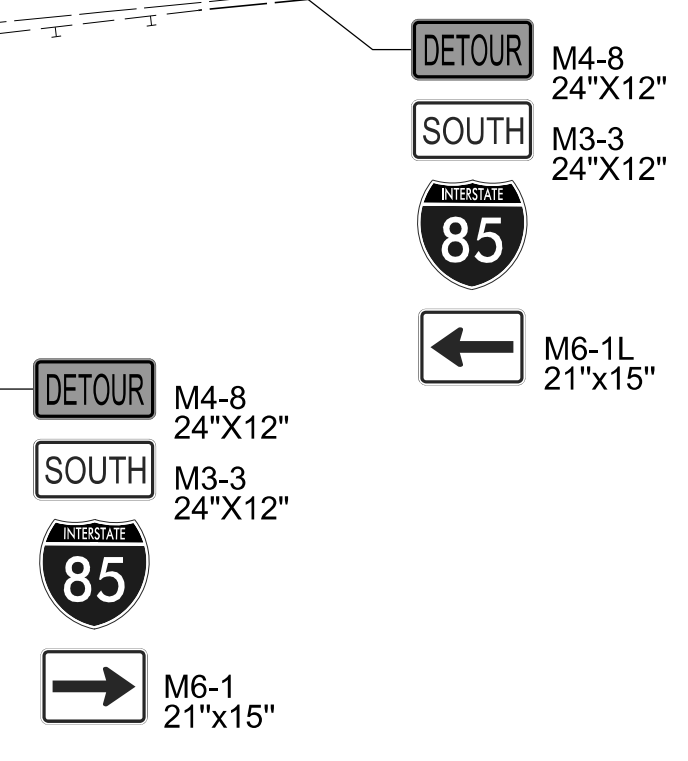
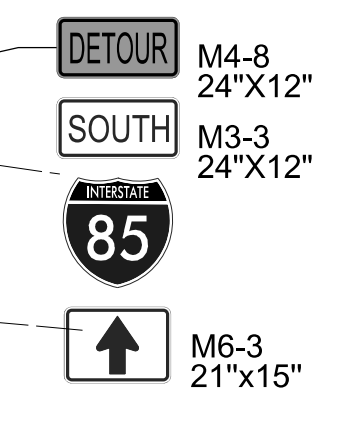
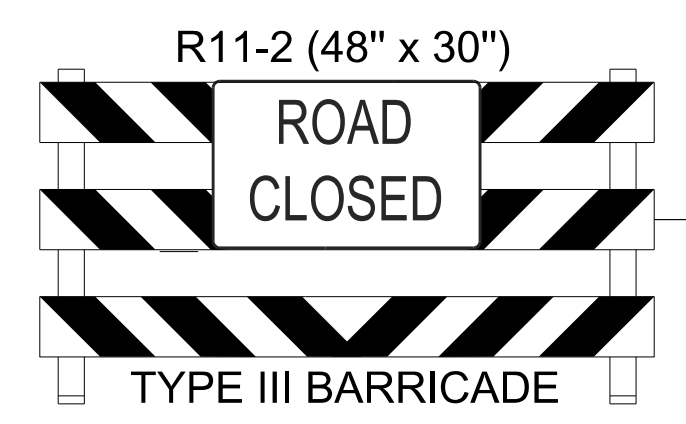
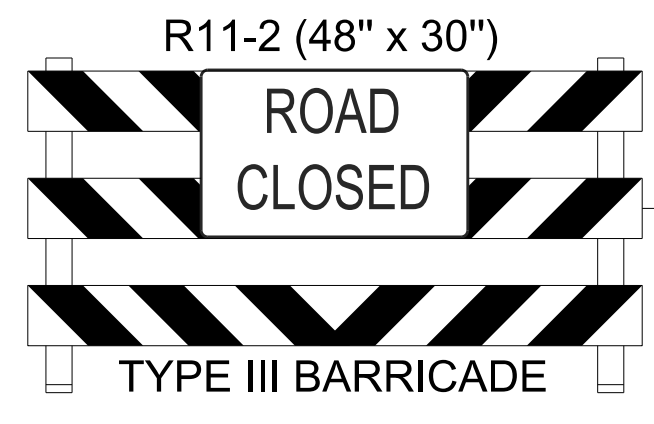
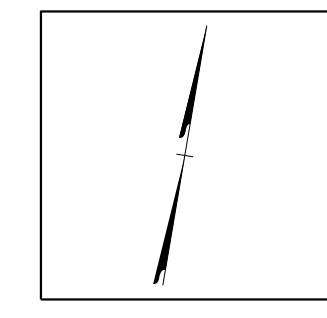
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**US 15-501 SOUTHBOUND
 BRIDGE REHABILITATION
 RIGHT SIDE**

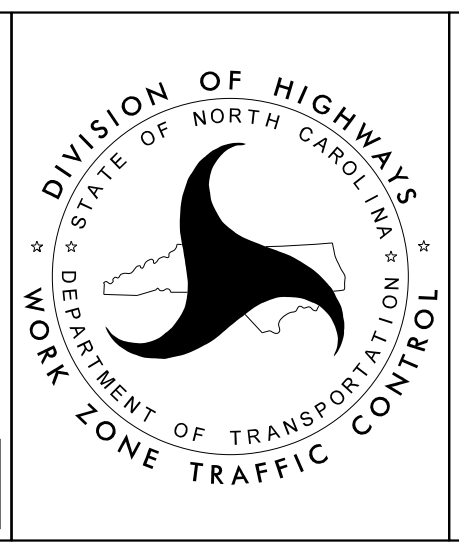


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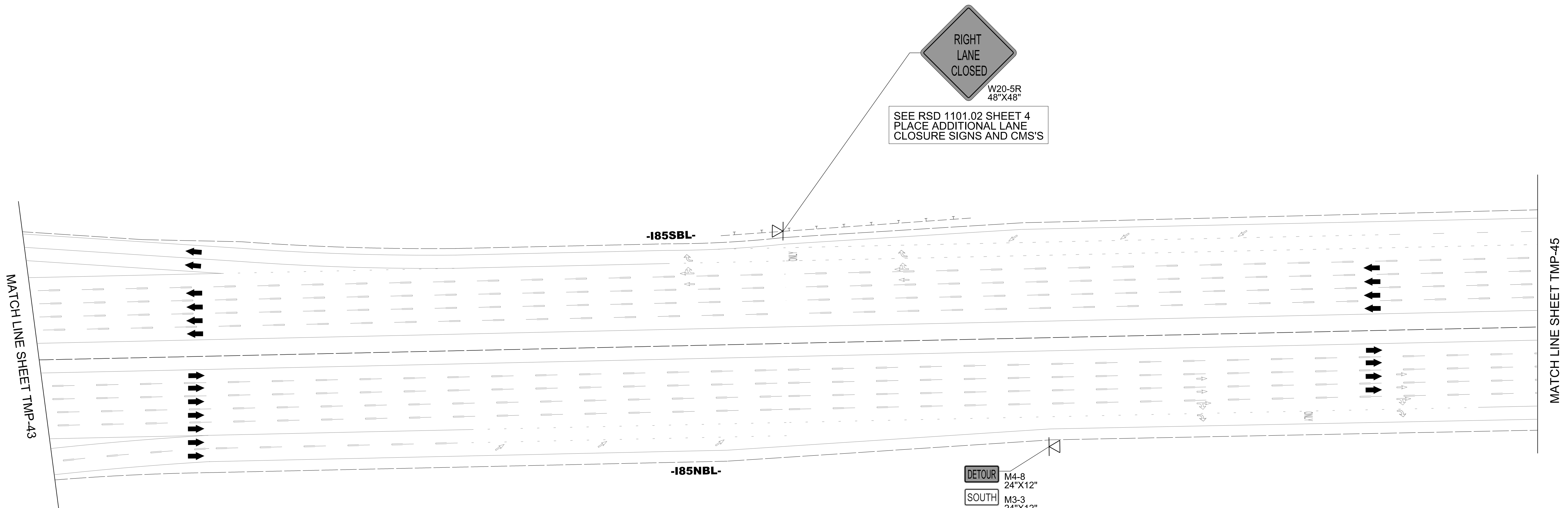
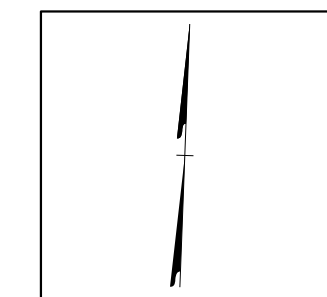
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**US 15-501 SOUTHBOUND
 BRIDGE REHABILITATION
 RIGHT SIDE**

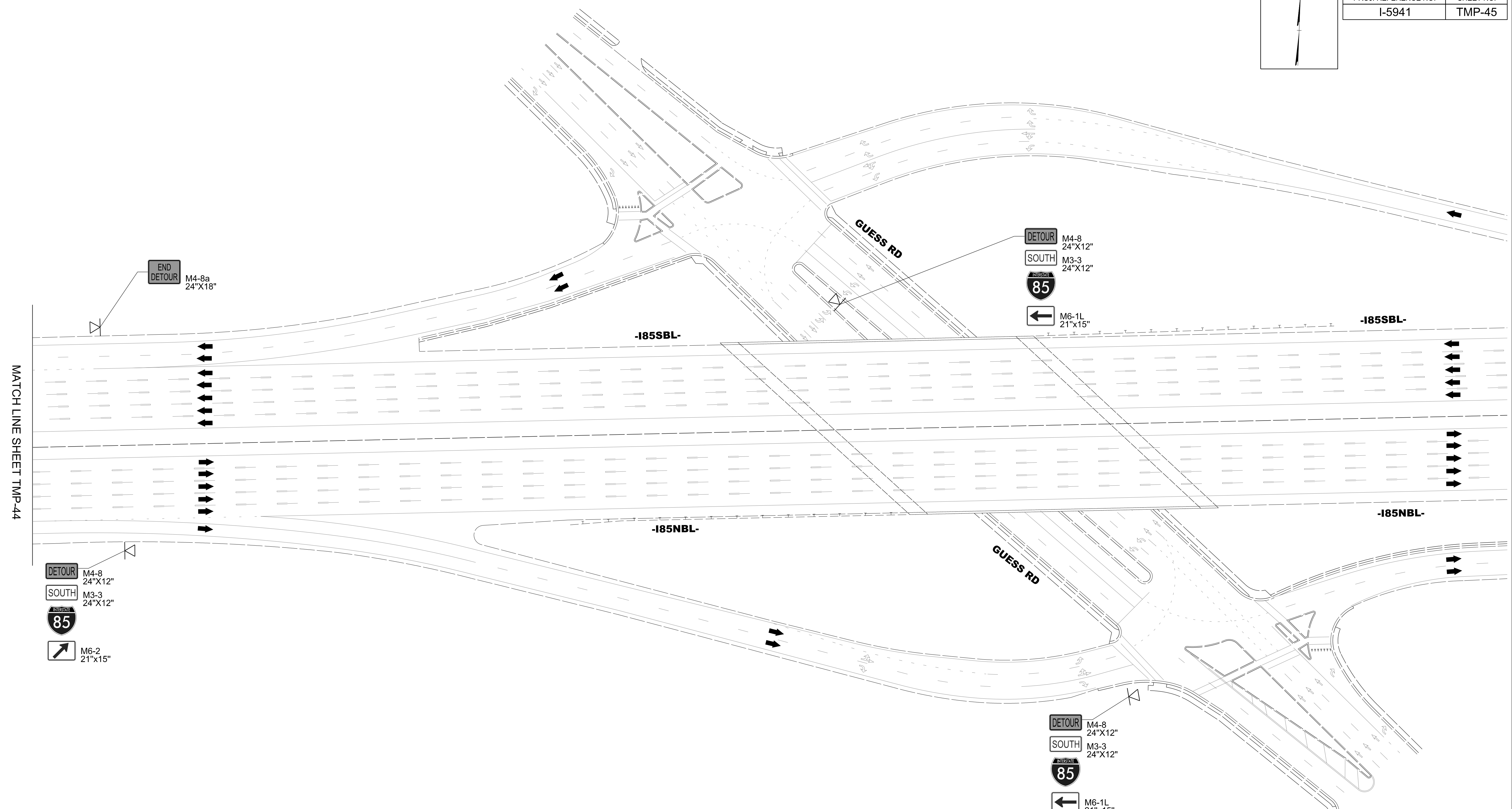
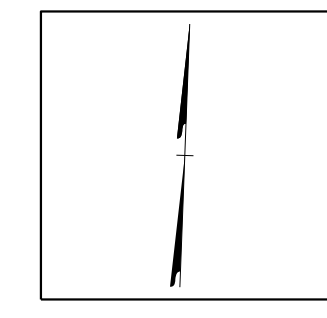


SEE RSD 1101.02 SHEET 4
PLACE ADDITIONAL LANE
CLOSURE SIGNS AND CMS'S

- DETOUR M4-8 24"x12"
- SOUTH M3-3 24"x12"
- 85
- M5-2 21"x15"

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MATCH LINE SHEET TMP-44

M4-8
 24"x12"
 M3-3
 24"x12"
 M6-2
 21"x15"

M4-8
 24"x12"
 M3-3
 24"x12"
 M6-1L
 21"x15"

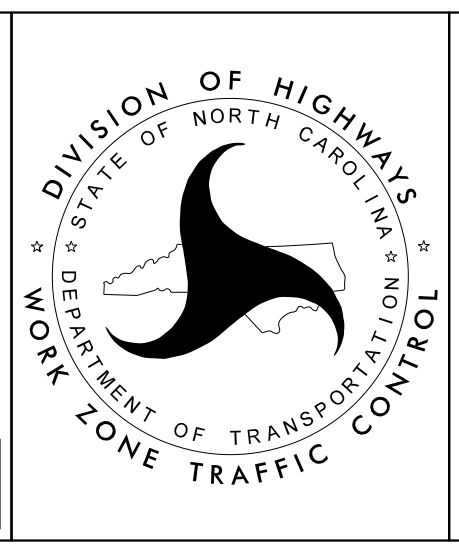
M4-8
 24"x12"
 M3-3
 24"x12"
 M6-1L
 21"x15"

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