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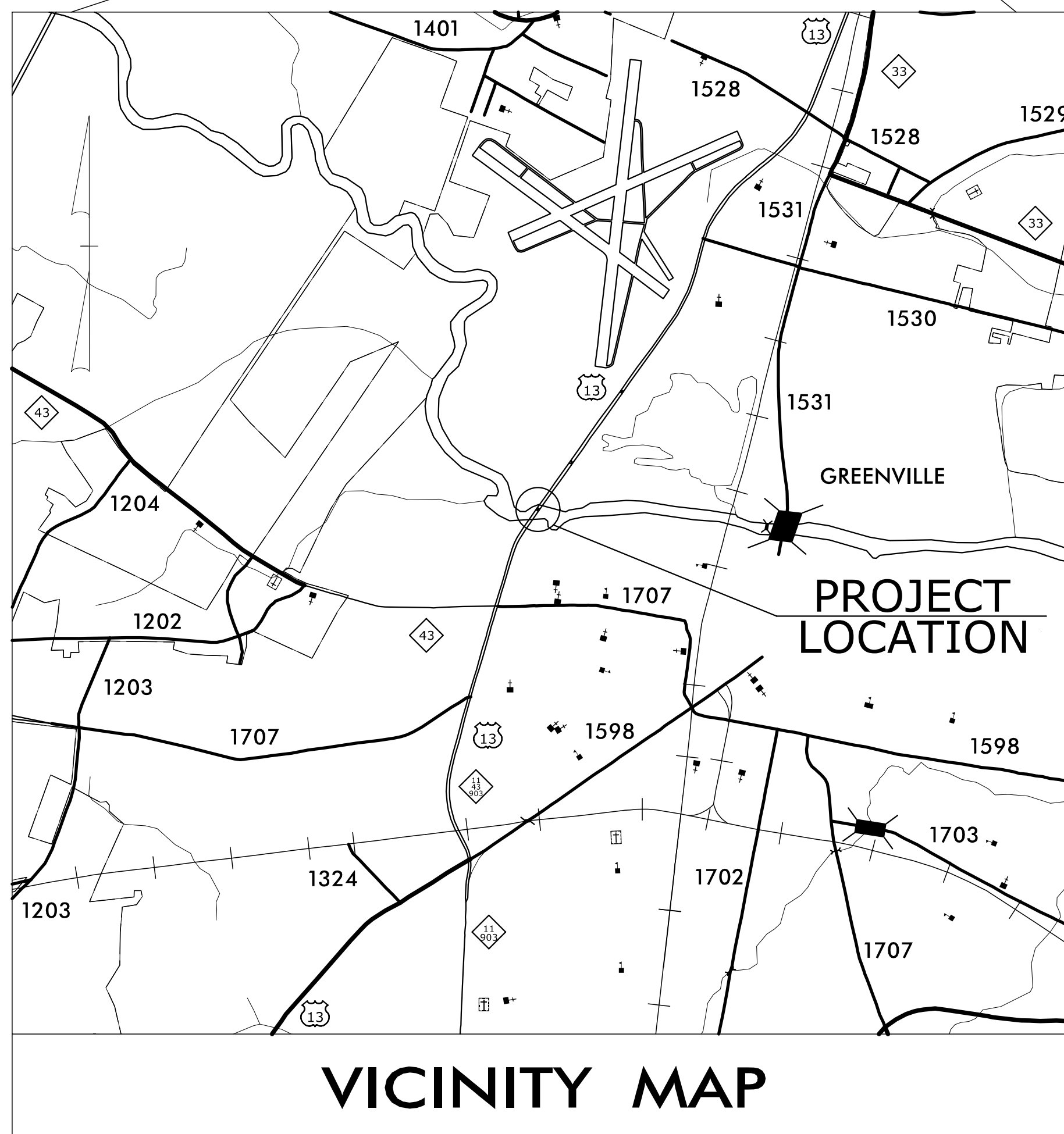
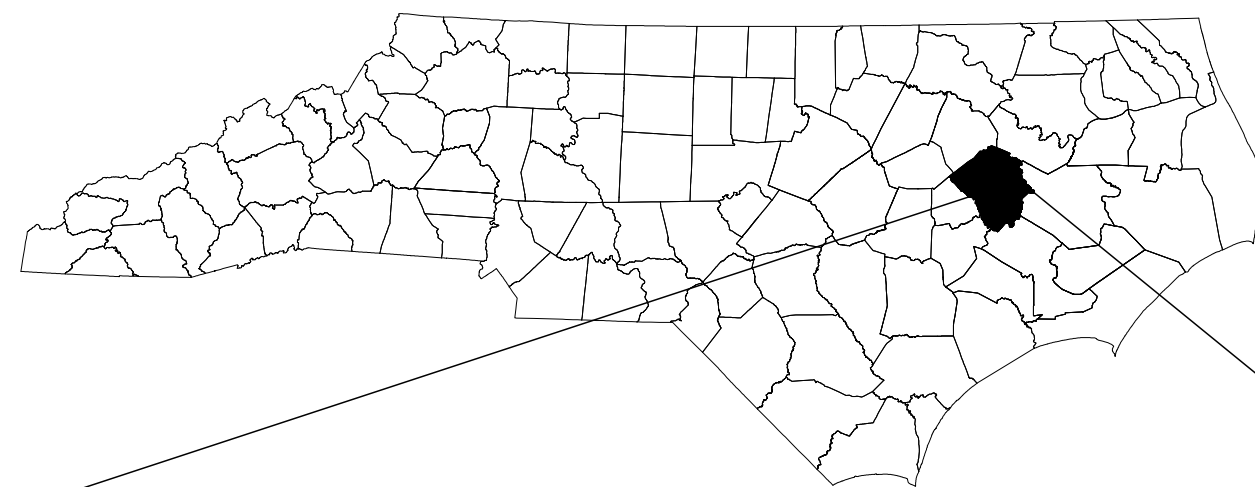
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STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

TRANSPORTATION MANAGEMENT PLAN

**PITT COUNTY
BRIDGE #730038**



VICINITY MAP

NCDOT CONTACT INFORMATION:
Phone: 919 707 6442 Fax: 919 250 4082
DAVID STUTTS
Project Engineer

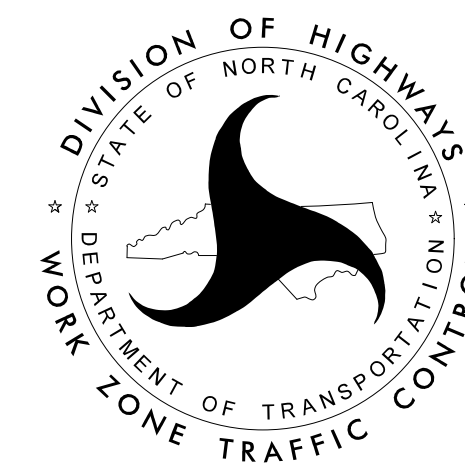


PLAN PREPARED FOR N.C.D.O.T. BY:



TGS ENGINEERS
706 HILLSBOROUGH ST. SUITE 200
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CORP. LICENSE NO.: C-0275

TOMMY REGISTER, PE PROJECT ENGINEER
DESIGN ENGINEER



INDEX OF SHEETS

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SHEET NO.
TMP-1

PROJECT: B-4786

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DATE: 5/18/2022 | 12:01 PM



ROADWAY STANDARD DRAWINGS

THE FOLLOWING ROADWAY STANDARDS AS SHOWN IN "ROADWAY STANDARD DRAWINGS" - PROJECT SERVICES UNIT - N.C. DEPARTMENT OF TRANSPORTATION - RALEIGH, N.C., DATED JANUARY 2012 ARE APPLICABLE TO THIS PROJECT AND BY REFERENCE HEREBY ARE CONSIDERED A PART OF THESE PLANS:

STD. NO.	TITLE
1101.01	WORK ZONE ADVANCE WARNING SIGNS
1101.02	TEMPORARY LANE CLOSURES
1101.03	TEMPORARY ROAD CLOSURES
1101.04	TEMPORARY SHOULDER CLOSURES
1101.05	WORK ZONE VEHICLE ACCESSES
1101.11	TRAFFIC CONTROL DESIGN TABLES
1110.01	STATIONARY WORK ZONE SIGNS
1110.02	PORTABLE WORK ZONE SIGNS
1115.01	FLASHING ARROW BOARDS
1130.01	DRUM
1135.01	CONES
1145.01	BARRICADES
1150.01	FLAGGING DEVICES
1160.01	TEMPORARY CRASH CUSHION
1165.01	WORK VEHICLE LIGHTING SYSTEMS AND TMA DELINEATION
1170.01	POSITIVE PROTECTION
1180.01	SKINNY-DRUM
1205.01	PAVEMENT MARKINGS - LINE TYPES AND OFFSETS
1205.02	PAVEMENT MARKINGS - TWO-LANE AND MULTI-LANE ROADWAYS
1205.12	PAVEMENT MARKINGS - BRIDGES
1250.01	RAISED PAVEMENT MARKERS - 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

LEGEND

GENERAL

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

- WORK AREA
- REMOVAL
- USER DEFINED (IF NEEDED)
- USER DEFINED (IF NEEDED)

SIGNALS

- EXISTING
- PROPOSED
- TEMPORARY

PAVEMENT MARKINGS

- EXISTING LINES
- TEMPORARY LINES

TRAFFIC CONTROL DEVICES

- BARRICADE (TYPE III)
- CONE
- DRUM SKINNY DRUM TUBULAR MARKER
- TEMPORARY CRASH CUSHION
- FLASHING ARROW BOARD
- FLAGGER
- LAW ENFORCEMENT
- TRUCK MOUNTED ATTENUATOR (TMA)
- CHANGEABLE MESSAGE SIGN

TEMPORARY SIGNING

- PORTABLE SIGN
- STATIONARY SIGN
- STATIONARY OR PORTABLE SIGN

TEMPORARY PAVEMENT MARKERS

- CRYSTAL/RED
- YELLOW/YELLOW

PAVEMENT MARKING SYMBOLS

- PAVEMENT MARKING SYMBOLS

TEMPORARY PAVEMENT MARKING SCHEDULE

P1	4" WHITE EDGELINE (PAINT)
P3	4" 10-FT. WHITE SKIP (PAINT)
P4	4" 3-FT. - 9 FT./SP WHITE MINISKIP
P10	4" YELLOW EDGELINE (PAINT)

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GENERAL NOTES

CHANGES MAY BE REQUIRED WHEN PHYSICAL DIMENSIONS IN THE DETAIL DRAWINGS, STANDARD DETAILS, AND ROADWAY DETAILS ARE NOT ATTAINABLE TO MEET FIELD CONDITIONS OR RESULT IN DUPLICATE OR UNDESIRE OVERLAPPING OF DEVICES. MODIFICATION MAY INCLUDE: MOVING, SUPPLEMENTING, COVERING, OR REMOVAL OF DEVICES AS DIRECTED BY THE ENGINEER.

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

LANE AND SHOULDER CLOSURE REQUIREMENTS

- A) 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.
- B) 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.
- C) 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.
- D) WHEN PERSONNEL AND/OR EQUIPMENT ARE WORKING WITHIN A LANE OF TRAVEL OF AN UNDIVIDED OR DIVIDED FACILITY, CLOSE THE LANE ACCORDING TO THE TRAFFIC CONTROL PLANS, ROADWAY STANDARD DRAWINGS, OR AS DIRECTED BY THE ENGINEER. CONDUCT THE WORK SO THAT ALL PERSONNEL AND/OR EQUIPMENT REMAIN WITHIN THE CLOSED TRAVEL LANE.
- E) 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.
- F) DO NOT INSTALL MORE THAN ONE LANE CLOSURE IN ANY DIRECTION ON -L-.

PAVEMENT EDGE DROP OFF REQUIREMENTS

- G) BACKFILL AT A 6:1 SLOPE UP TO THE EDGE AND ELEVATION OF EXISTING PAVEMENT IN AREAS ADJACENT TO AN OPENED TRAVEL LANE THAT HAS AN EDGE OF PAVEMENT DROP-OFF AS FOLLOWS:

BACKFILL DROP-OFFS THAT EXCEED 2 INCHES ON ROADWAYS WITH POSTED SPEED LIMITS OF 45 MPH OR GREATER.

BACKFILL DROP-OFFS THAT EXCEED 3 INCHES ON ROADWAYS WITH POSTED SPEED LIMITS LESS THAN 45 MPH.

BACKFILL WITH SUITABLE COMPACTED MATERIAL, AS APPROVED BY THE ENGINEER, AT NO EXPENSE TO THE DEPARTMENT.

- H) DO NOT EXCEED A DIFFERENCE OF 2 INCHES IN ELEVATION BETWEEN OPEN LANES OF TRAFFIC FOR NOMINAL LIFTS OF 1.5 INCHES. INSTALL ADVANCE WARNING "UNEVEN LANES" SIGNS (W8-11) 200 FT IN ADVANCE AND A MINIMUM OF EVERY HALF MILE THROUGHOUT THE UNEVEN AREA.

TRAFFIC PATTERN ALTERATIONS

- I) NOTIFY THE ENGINEER 30 CALENDAR DAYS PRIOR TO ANY TRAFFIC PATTERN ALTERATION.

SIGNING

- J) 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.
- K) ENSURE ALL NECESSARY SIGNING IS IN PLACE PRIOR TO ALTERING ANY TRAFFIC PATTERN.

TRAFFIC BARRIER

- L) INSTALL TEMPORARY BARRIER ACCORDING TO THE TRANSPORTATION MANAGEMENT PLANS A MAXIMUM OF TWO (2) WEEKS PRIOR TO BEGINNING WORK IN ANY LOCATION. ONCE TEMPORARY BARRIER IS INSTALLED AT ANY LOCATION PROCEED IN A CONTINUOUS MANNER TO COMPLETE THE PROPOSED WORK IN THAT LOCATION UNLESS OTHERWISE STATED IN THE TRANSPORTATION MANAGEMENT PLANS OR AS DIRECTED BY THE ENGINEER.

DO NOT PLACE BARRIER DIRECTLY ON ANY SURFACE OTHER THAN ASPHALT OR CONCRETE.

ONCE TEMPORARY BARRIER IS INSTALLED AT ANY LOCATION AND NO WORK IS PERFORMED BEHIND THE TEMPORARY BARRIER FOR A PERIOD LONGER THAN TWO (2) MONTHS, REMOVE / RESET TEMPORARY BARRIER AT NO COST TO THE DEPARTMENT UNLESS OTHERWISE STATED IN THE TRANSPORTATION MANAGEMENT PLANS, TEMPORARY BARRIER IS PROTECTING A HAZARD, OR AS DIRECTED BY THE ENGINEER.

INSTALL TEMPORARY BARRIER WITH THE TRAFFIC FLOW BEGINNING WITH THE UPSTREAM SIDE OF TRAFFIC. REMOVE TEMPORARY BARRIER AGAINST THE TRAFFIC FLOW BEGINNING WITH THE DOWNSTREAM SIDE OF TRAFFIC.

INSTALL AND SPACE DRUMS NO GREATER THAN TWICE THE POSTED SPEED LIMIT (MPH) TO CLOSE OR KEEP THE SECTION OF THE ROADWAY CLOSED UNTIL THE TEMPORARY BARRIER CAN BE PLACED OR AFTER THE TEMPORARY BARRIER IS REMOVED.

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

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

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

TRAFFIC CONTROL DEVICES

- N) PROTECT 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.
- O) 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

- P) INSTALL TEMPORARY PAVEMENT MARKINGS ON INTERIM LAYERS OF PAVEMENT AS FOLLOWS:

ROAD NAME	MARKING	MARKERS
US 13	PAINT	TEMP RAISED

- Q) 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.
- R) TIE PROPOSED PAVEMENT MARKING LINES TO EXISTING PAVEMENT MARKING LINES.
- S) REMOVE/REPLACE ANY CONFLICTING/DAMAGED PAVEMENT MARKINGS AND MARKERS BY THE END OF EACH DAY'S OPERATION.
- T) TRACE THE PROPOSED MONOLITHIC ISLAND LOCATIONS WITH PROPER COLOR PAVEMENT MARKINGS PRIOR TO INSTALLATION. PLACE DRUMS TO DELINEATE ANY PROPOSED MONOLITHIC ISLANDS BEFORE INSTALLATION.

MISCELLANEOUS

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

LOCAL NOTES

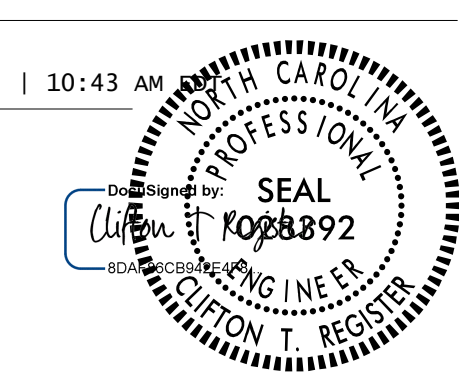

ACCESS TO ALL DRIVEWAYS MUST BE PROVIDED AT ALL TIMES WITHIN THE PROJECT LIMITS.

PROVIDE ONE MONTH NOTICE TO THE ENGINEER, PITT COUNTY EMERGENCY SERVICES, AND PITT COUNTY SCHOOL OFFICIALS PRIOR TO CONSTRUCTION.

MANAGEMENT STRATEGIES

THE CONSTRUCTION OF US 13 (-L-) WILL BE PERFORMED USING TEMPORARY LANE CLOSURES, TEMPORARY LANE SHIFT, AND TWO-WAY TRAFFIC ON ONE SIDE OF DIVIDED FACILITY (CROSSOVER)

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B-4786	TMP-1C

TGS ENGINEERS
 706 HILLSBOROUGH ST. SUITE 200
 RALEIGH, NC 27603
 PH (919) 773-8887
 CORP. LICENSE NO.: C-0275

PHASING

PHASE I

STEP 1: USING ROADWAY STANDARD DRAWING (RSD) 1101.01, INSTALL ALL ADVANCE WARNING SIGNING.

STEP 2: USING RSD 1101.02, SHEET 3 OF 14 CONSTRUCT THE MEDIAN PORTIONS OF -XOVR1- AND XOVR2-.

PHASE II

STEP 1: USING RSD 1101.03 SHEET 4 OF 9 (IN CONJUNCTION WITH RSD 1101.02), INSTALL THE TEMPORARY ROAD CLOSURE FOR NORTHBOUND TRAFFIC UTILIZING THE TEMPORARY MEDIAN CROSSOVERS, -XOVR1- AND -XOVR2-. THIS STEP WILL INCLUDE:
 PLACING ALL SIGNING, PORTABLE CONCRETE BARRIER, FROM STATION -L- STA. 19+06 TO -L- STA. 36+53 TYPE III BARRICADES, TEMPORARY PAVEMENT MARKINGS, AND SIGNAL TIMING ADJUSTMENT FOR THE INTERSECTION WITH W. 3RD STREET. THIS STEP WILL ALSO INCLUDE TEMPORARY ADJUSTMENT OF EXISTING SOUTHBOUND MEDIAN GUARDRAIL TO ACCOMMODATE NORTHBOUND DETOUR TRAFFIC.

STEP 2: WITH THE TEMPORARY ROAD CLOSURE IN PLACE, REMOVE THE EXISTING NORTHBOUND BRIDGE AND CONSTRUCT THE NEW NORTHBOUND BRIDGE AND APPROACHES UP TO BUT NOT INCLUDING THE FINAL LIFT OF SURFACE COURSE. ADDITIONALLY, FINAL MEDIAN GRADING AND DRAINAGE WILL NECESSARILY WAIT FOR THE REMOVAL OF THE TEMPORARY MEDIAN CROSSOVERS.

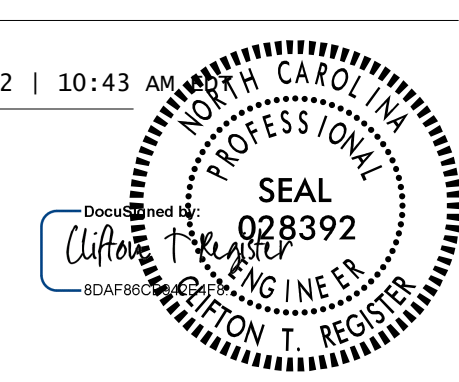

PHASE III

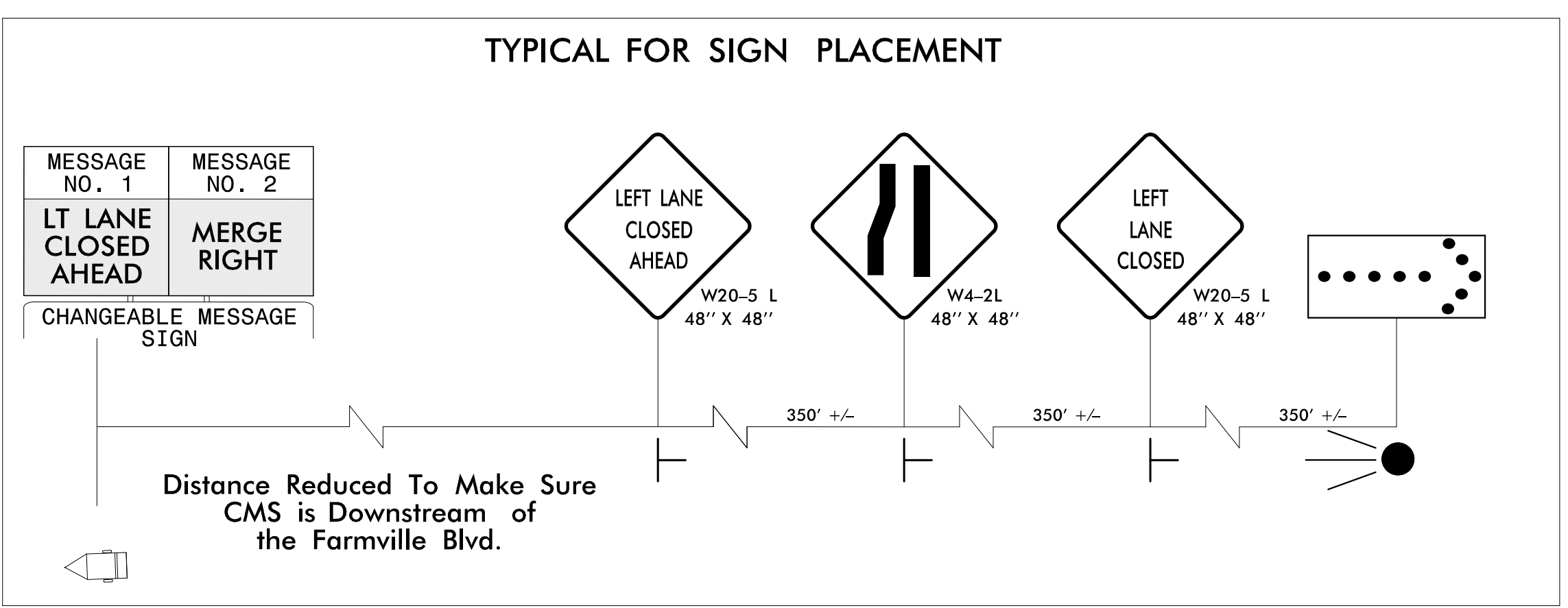
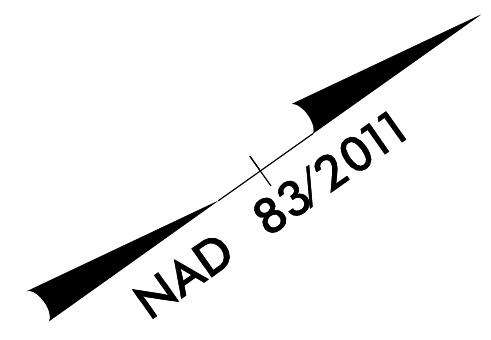
STEP 1: USING RSD 1101.02, SHEET 3 OF 14 AND TMP-10 THRU TMP 13 REMOVE THE TEMPORARY ROAD CLOSURE FOR NORTHBOUND TRAFFIC AND SHIFT TRAFFIC TO THE OUTSIDE LANES ON US 13 NORTH AND SOUTH BOUND. THIS STEP WILL INVOLVE: REMOVAL OF TEMPORARY ROAD CLOSURE DEVICES & MARKINGS FROM PHASE II, INSTALLATION OF TEMPORARY PAVEMENT MARKINGS SAME PATTERN AS PHASE 1, RELAP EXISTING GUARD RAIL AT -L- STA 24+35+/- AND -L- STA 30+79 +/-, AND ADJUSTMENT OF SOUTHBOUND MEDIAN GUARDRAIL TO ITS FINAL LOCATION.

STEP 2: USING RSD 1101.04, PERFORM THE FINAL GRADING AND DRAINAGE WORK IN THE MEDIAN. USING RSD 1101.02, MILL (1.5") NORTHBOUND PAVEMENT FROM -L- STA. 18+78+/- TO 22+96+/- AND -L- STA. 33+21+/- TO 36+39+/-.

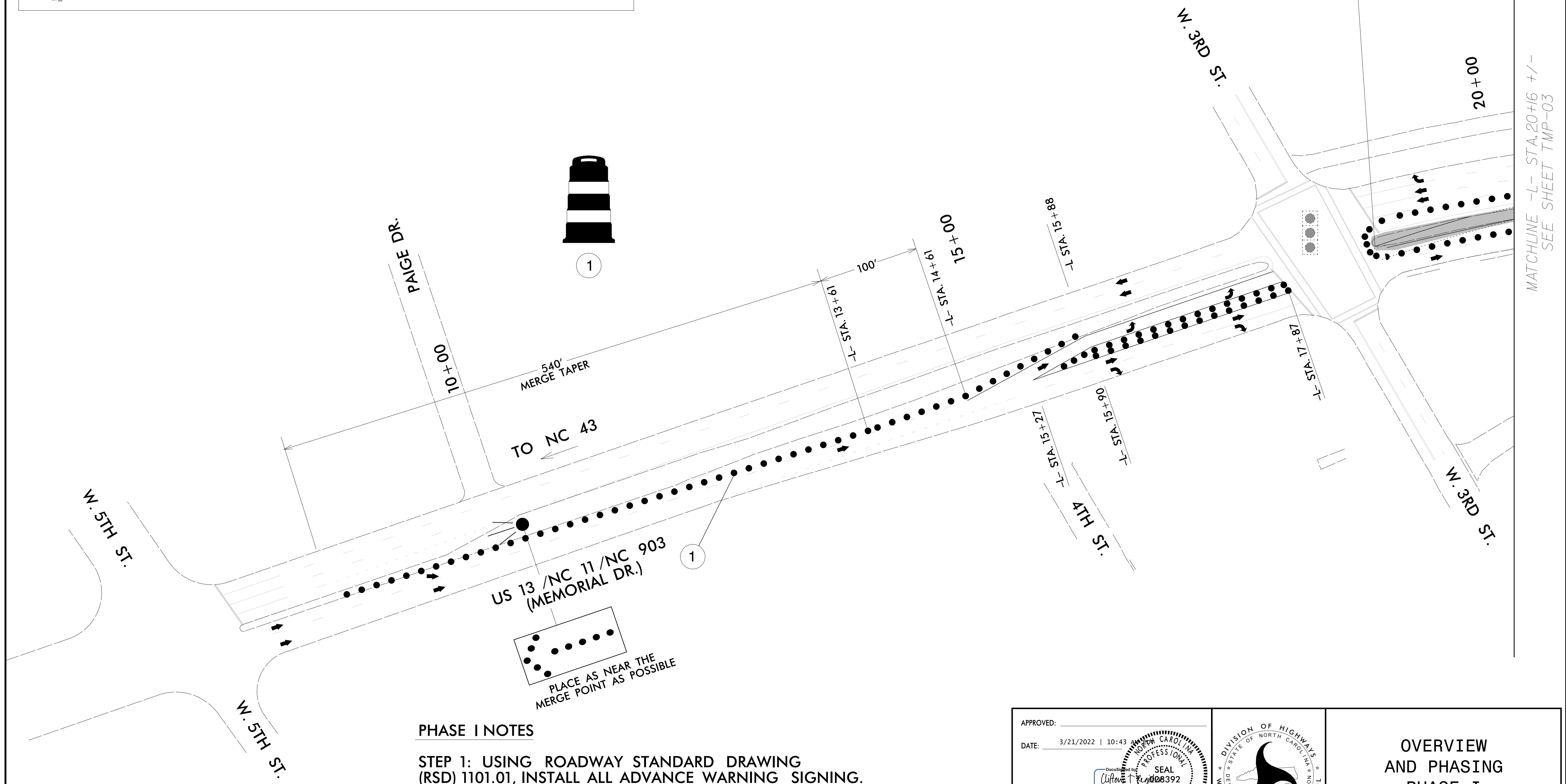
STEP 3: USING RSD 1101.02 SHEET 3 OF 14, PLACE THE FINAL LIFT OF SURFACE COURSE AND FINAL PAVEMENT MARKINGS PER B-4786 ROADWAY PLANS AND FINAL PAVEMENT MARKING PLANS RETURN THE TRAFFIC SIGNAL BACK TO ITS INITIAL CONDITION REMOVE ALL REMAINING TRAFFIC CONTROL DEVICES AND OPEN -L- TO THE FINAL TRAFFIC PATTERN.

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BEGIN -XOVR1- CONSTRUCTION
-XOVR1- STA 11+20.39=
-L- STA 18+78.61



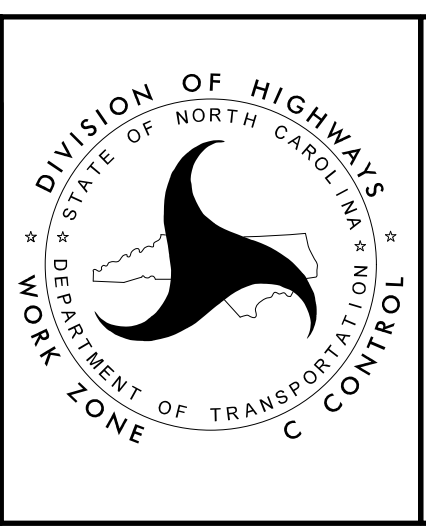
PHASE I NOTES

- STEP 1: USING ROADWAY STANDARD DRAWING (RSD) 1101.01, INSTALL ALL ADVANCE WARNING SIGNING.
- STEP 2: USING RSD 1101.02 SHEET 3 OF 14, CONSTRUCT THE MEDIAN PORTIONS OF -XOVR1- AND -XOVR2-

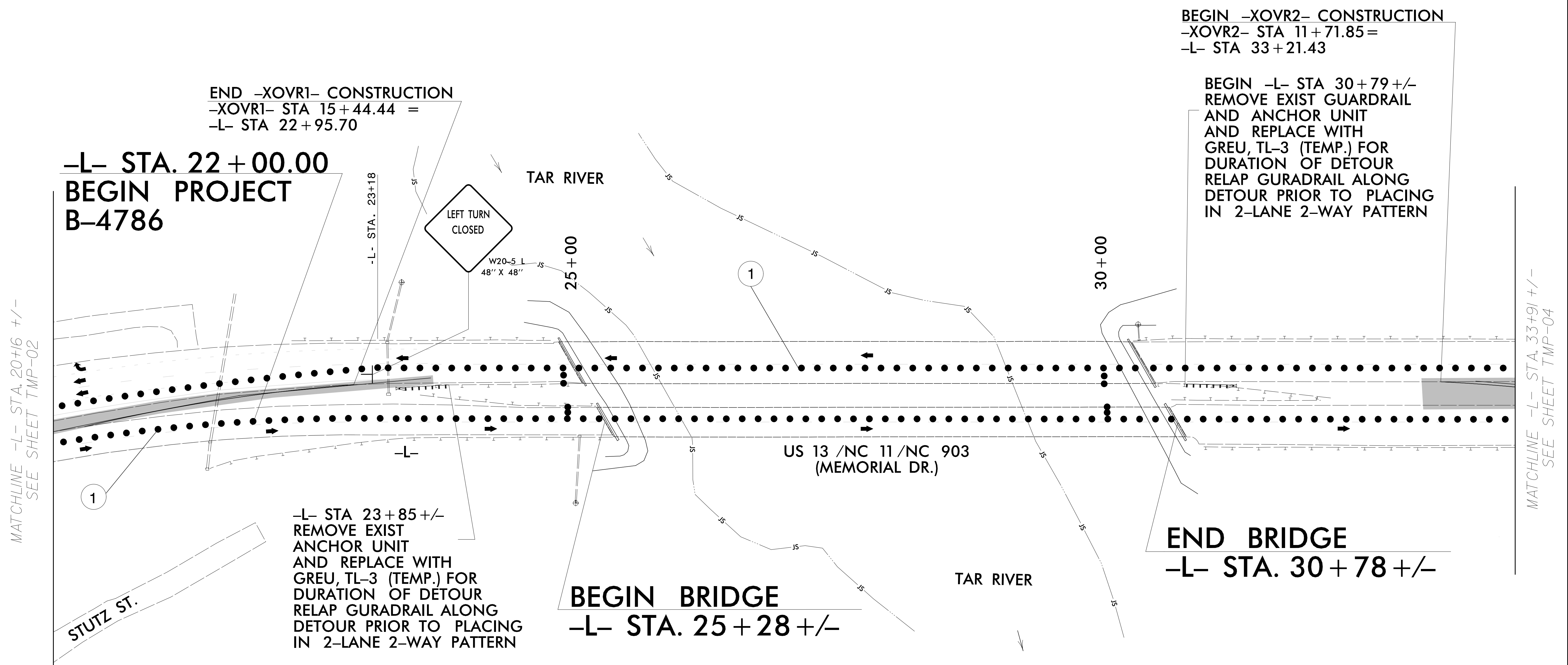
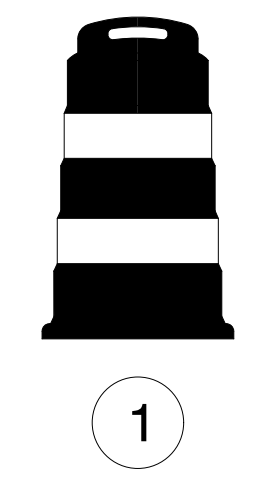
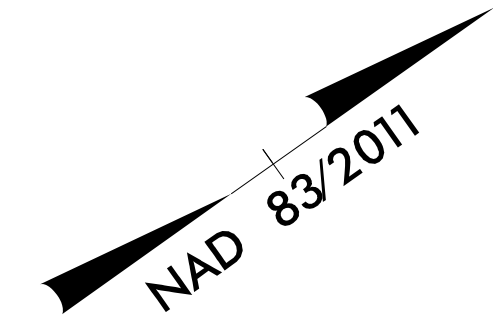
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**OVERVIEW
AND PHASING
PHASE I
DETAIL**



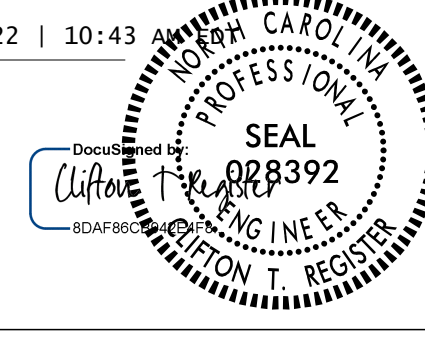
MATCHLINE -L- STA. 20+16 +/-
SEE SHEET TMP-02

MATCHLINE -L- STA. 33+91 +/-
SEE SHEET TMP-04

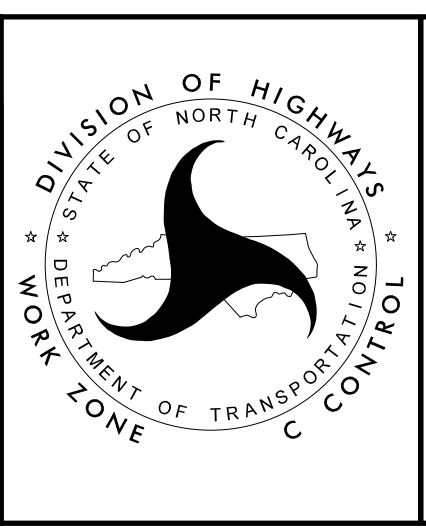
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- STEP 2: USING RSD 1101.02 SHEET 3 OF 14, CONSTRUCT THE MEDIAN PORTIONS OF -XOVR1- AND -XOVR2-

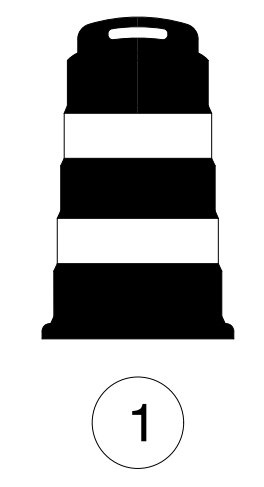
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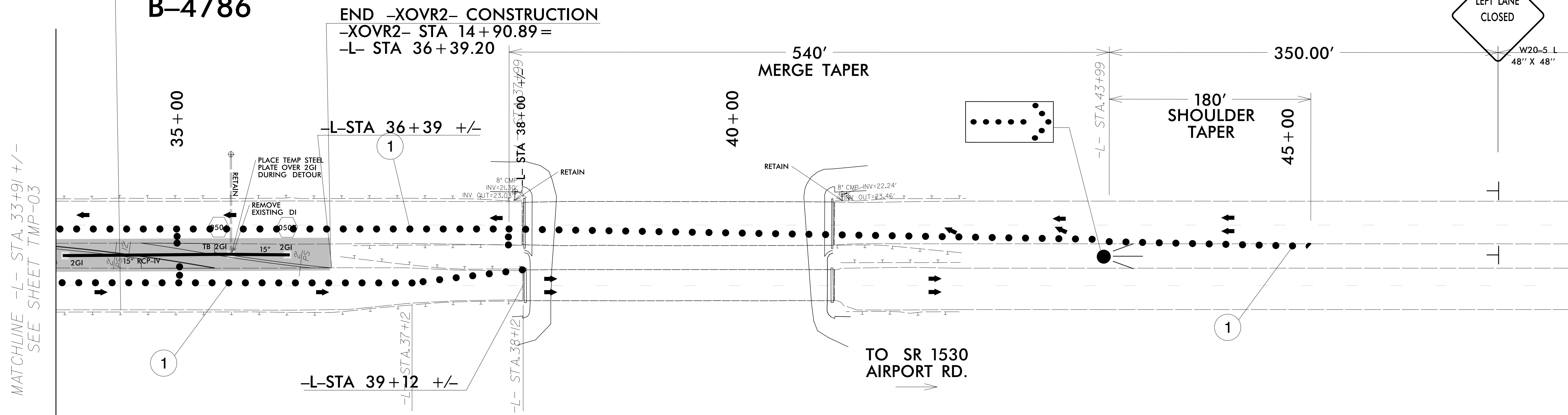
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**OVERVIEW
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PHASE I
DETAIL**



-L- STA. 34 + 50.00
END PROJECT
B-4786

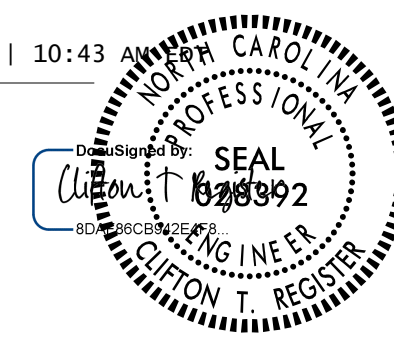


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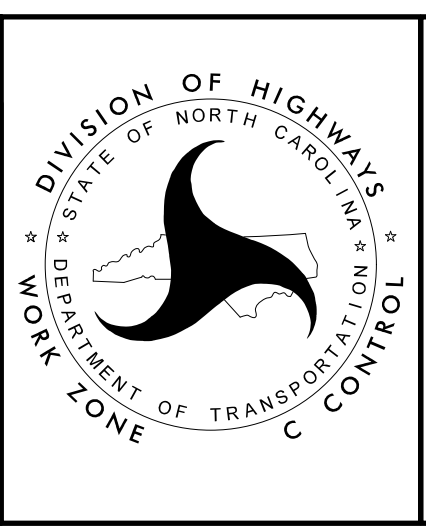
STEP 1: USING ROADWAY STANDARD DRAWING (RSD) 1101.01, INSTALL ALL ADVANCE WARNING SIGNING.

STEP 2: USING RSD 1101.02 SHEET 3 OF 14, CONSTRUCT THE MEDIAN PORTIONS OF -XOVR1- AND -XOVR2-

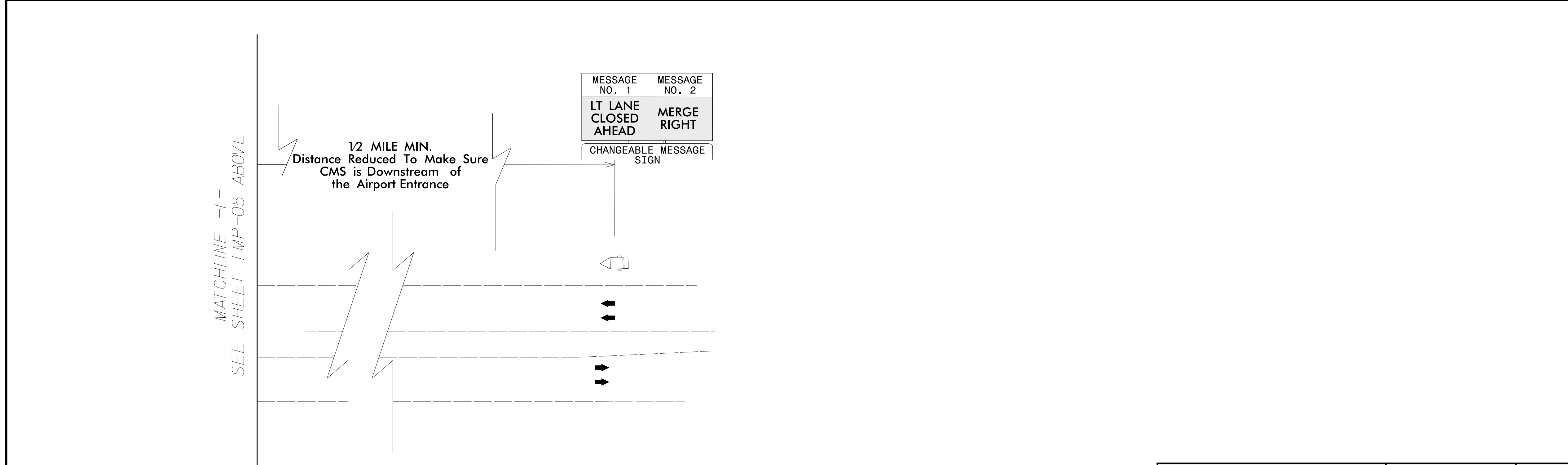
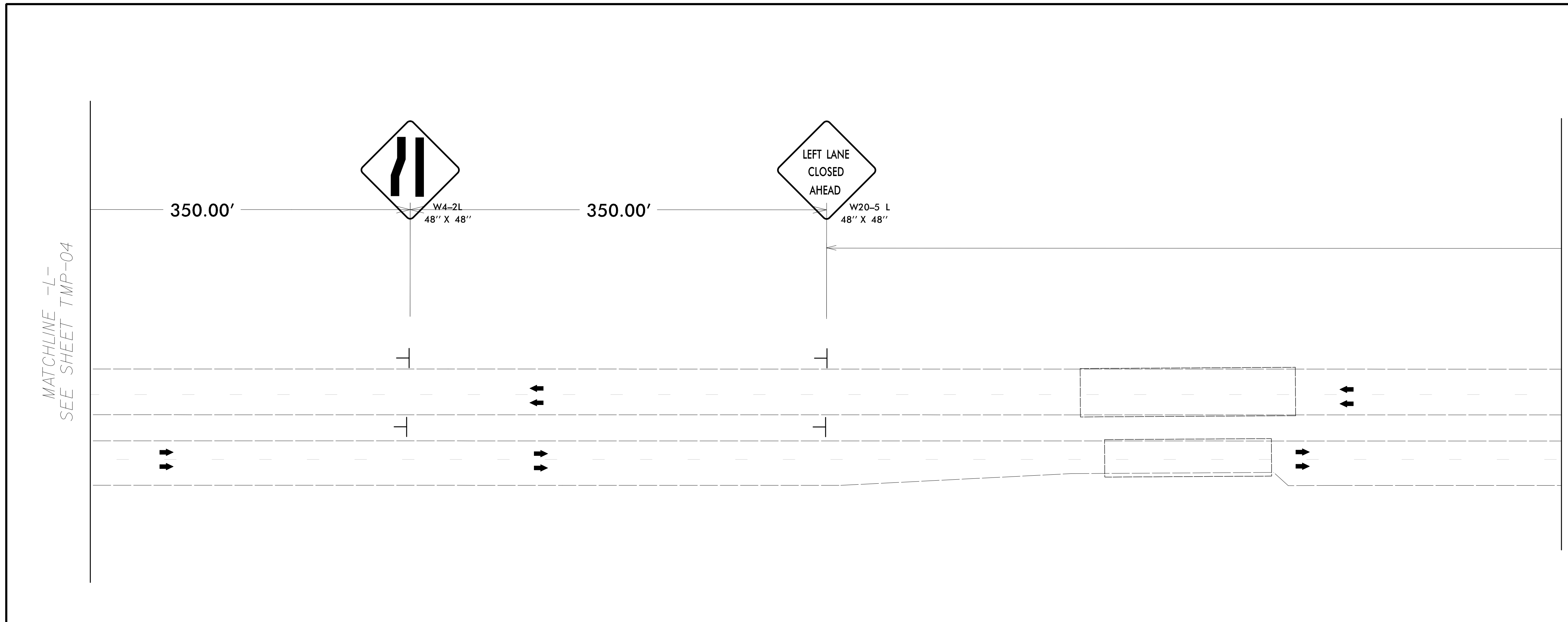
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OVERVIEW AND PHASING PHASE I DETAIL



PHASE I NOTES

STEP 1: USING ROADWAY STANDARD DRAWING (RSD) 1101.01, INSTALL ALL ADVANCE WARNING SIGNING.

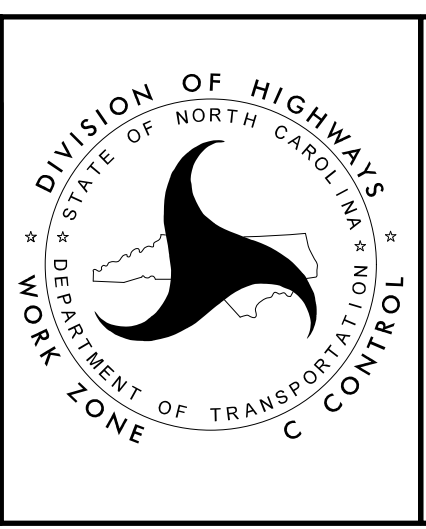
STEP 2: USING RSD 1101.02 SHEET 3 OF 14, CONSTRUCT THE MEDIAN PORTIONS OF -XOVR1- AND -XOVR2-

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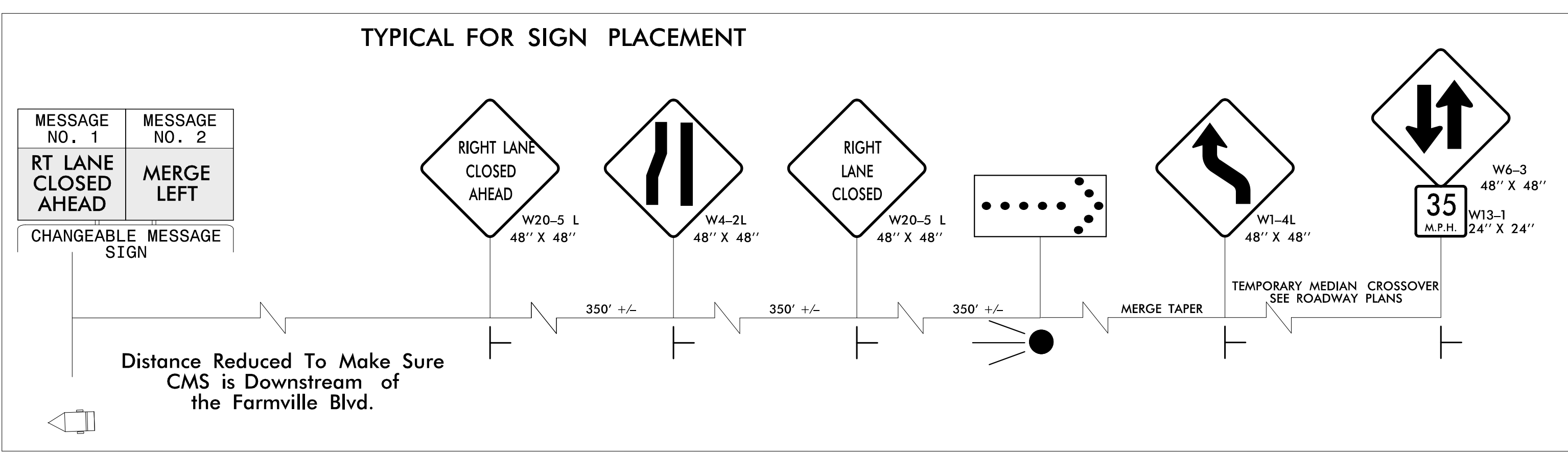
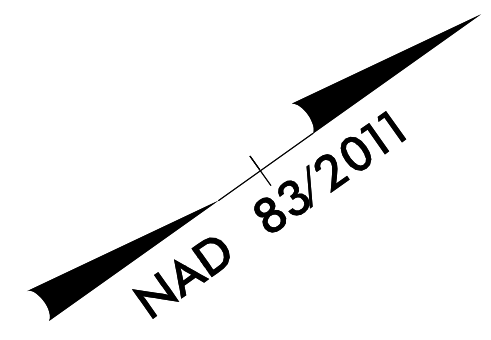
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Seal of a Professional Engineer, State of North Carolina, License No. 1024092, signed by William T. Register.

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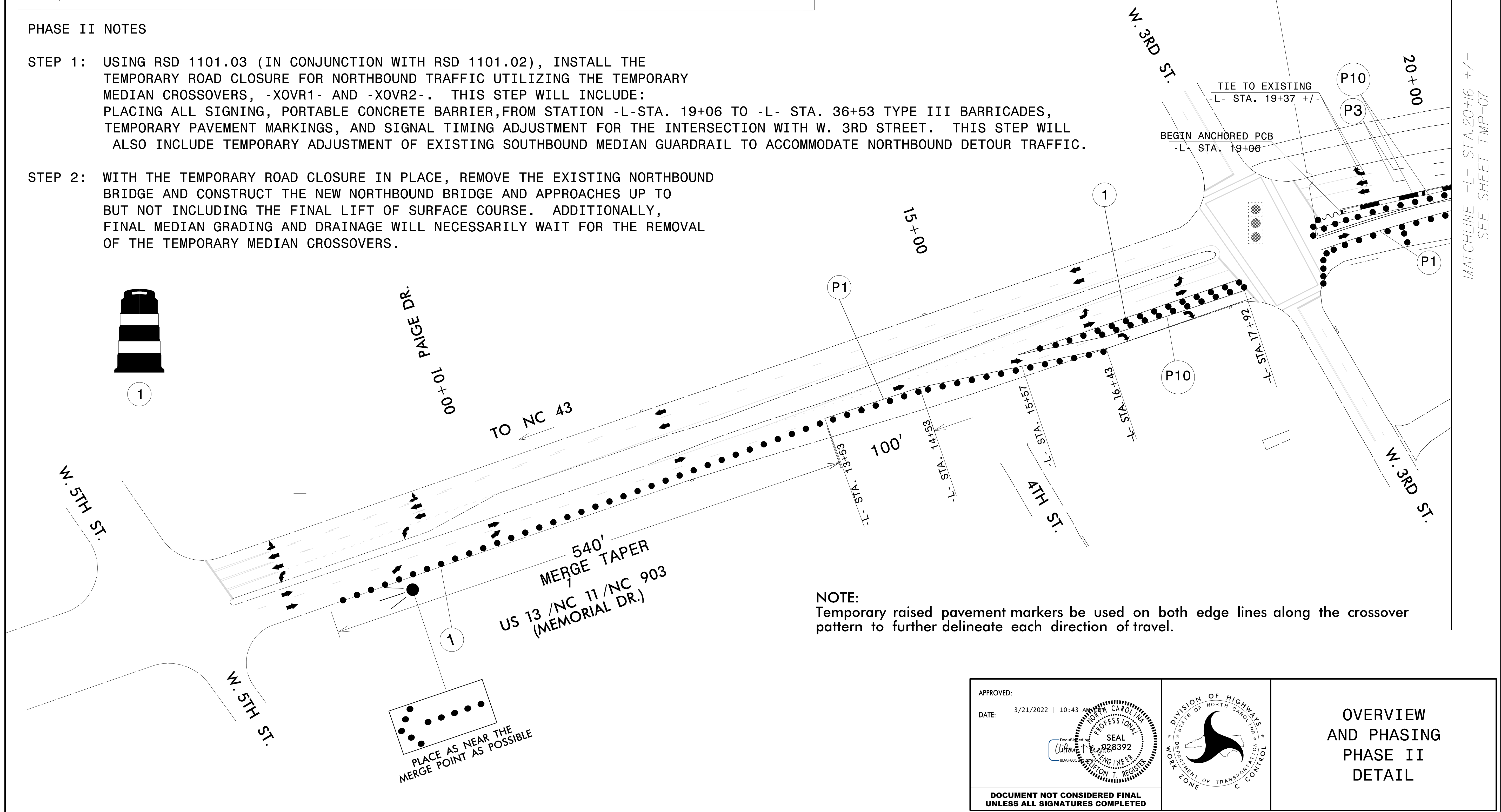
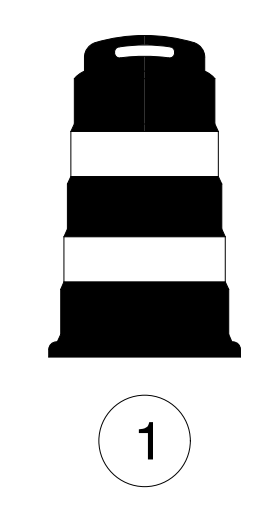
OVERVIEW AND PHASING PHASE I DETAIL



BEGIN -XOVR1-
 -XOVR1- STA 11+20.39=
 -L- STA 18+78.61

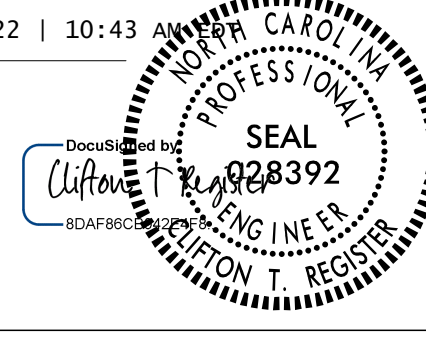
PHASE II NOTES

- STEP 1:** USING RSD 1101.03 (IN CONJUNCTION WITH RSD 1101.02), INSTALL THE TEMPORARY ROAD CLOSURE FOR NORTHBOUND TRAFFIC UTILIZING THE TEMPORARY MEDIAN CROSSOVERS, -XOVR1- AND -XOVR2-. THIS STEP WILL INCLUDE: PLACING ALL SIGNING, PORTABLE CONCRETE BARRIER, FROM STATION -L- STA. 19+06 TO -L- STA. 36+53 TYPE III BARRICADES, TEMPORARY PAVEMENT MARKINGS, AND SIGNAL TIMING ADJUSTMENT FOR THE INTERSECTION WITH W. 3RD STREET. THIS STEP WILL ALSO INCLUDE TEMPORARY ADJUSTMENT OF EXISTING SOUTHBOUND MEDIAN GUARDRAIL TO ACCOMMODATE NORTHBOUND DETOUR TRAFFIC.
- STEP 2:** WITH THE TEMPORARY ROAD CLOSURE IN PLACE, REMOVE THE EXISTING NORTHBOUND BRIDGE AND CONSTRUCT THE NEW NORTHBOUND BRIDGE AND APPROACHES UP TO BUT NOT INCLUDING THE FINAL LIFT OF SURFACE COURSE. ADDITIONALLY, FINAL MEDIAN GRADING AND DRAINAGE WILL NECESSARILY WAIT FOR THE REMOVAL OF THE TEMPORARY MEDIAN CROSSOVERS.

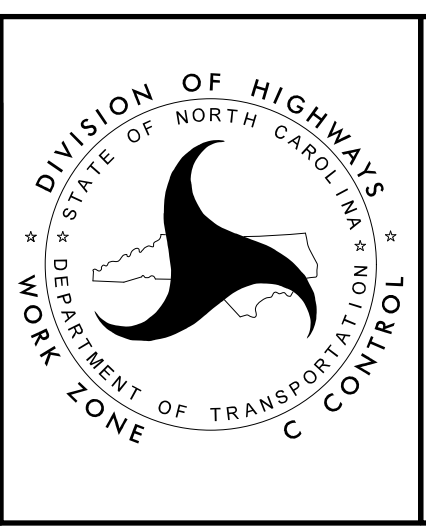


NOTE:
 Temporary raised pavement markers be used on both edge lines along the crossover pattern to further delineate each direction of travel.

APPROVED: _____
 DATE: 3/21/2022 | 10:43 AM

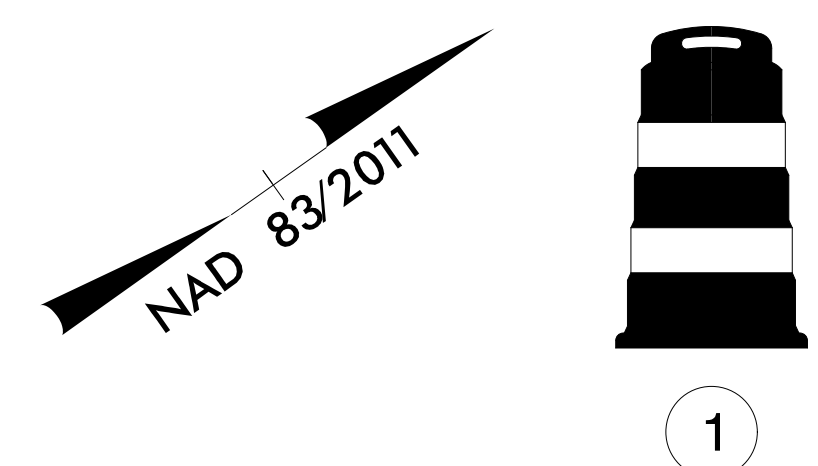


DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED



OVERVIEW AND PHASING PHASE II DETAIL

NOTE:
Temporary raised pavement markers will be used along both edge lines to further delineate each direction of travel.

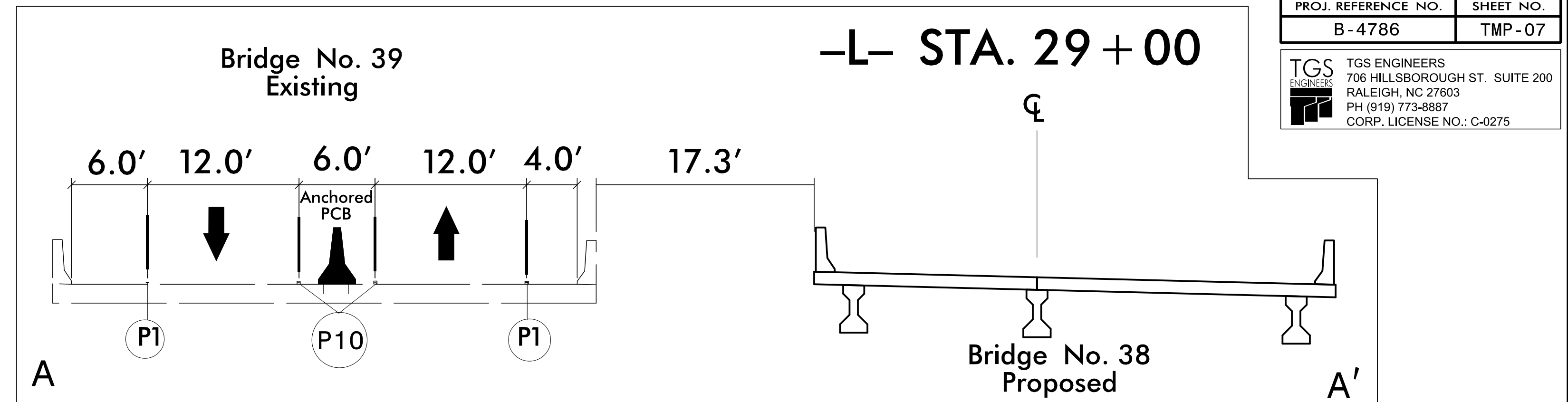


END -XOVR1-
-XOVR1- STA 15+44.44 =
-L- STA 22+95.70

-L- STA. 22+00.00
BEGIN PROJECT
B-4786

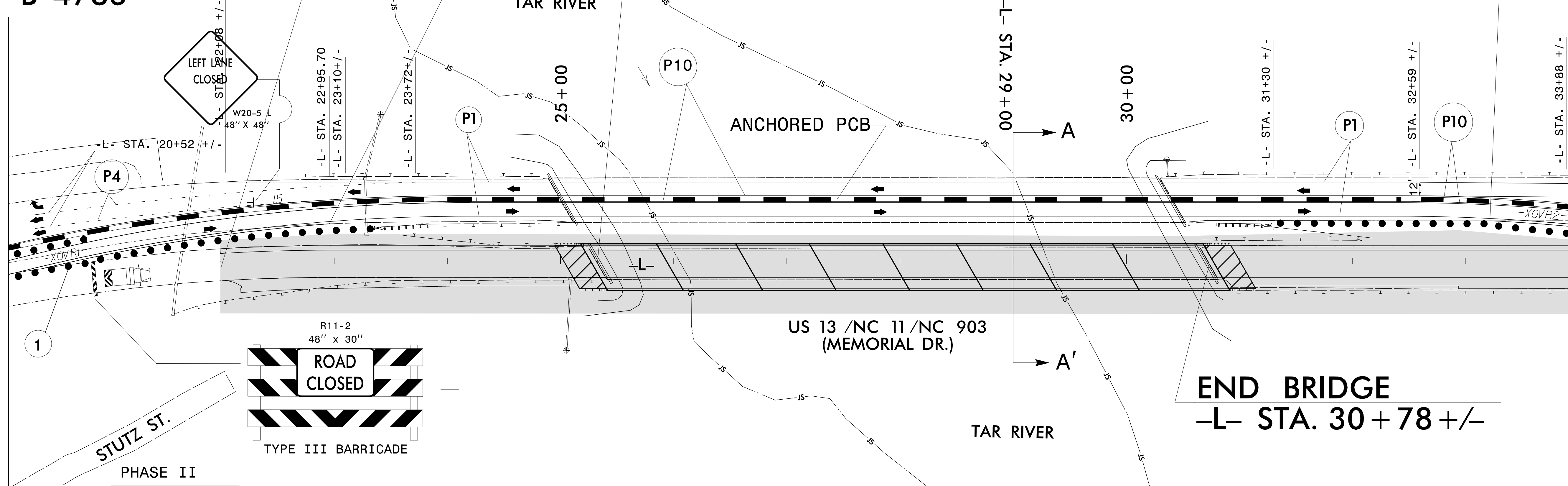
BEGIN BRIDGE
-L- STA. 25+28 +/-

-L- STA. 29+00



PROJ. REFERENCE NO. B-4786	SHEET NO. TMP-07
TGS ENGINEERS 706 HILLSBOROUGH ST. SUITE 200 RALEIGH, NC 27603 PH (919) 773-8887 CORP. LICENSE NO.: C-0275	

MATCHLINE -L- STA. 20+16 +/-
SEE SHEET TMP-06



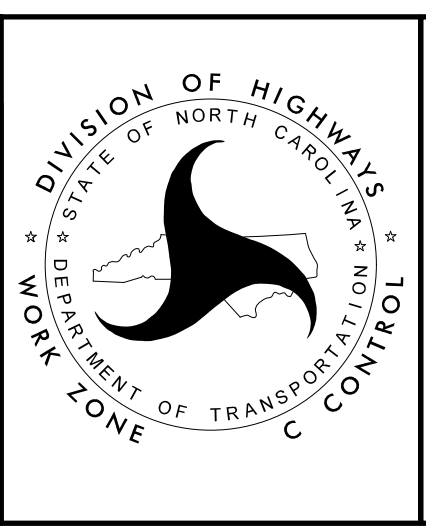
MATCHLINE -L- STA. 33+91 +/-
SEE SHEET TMP-08

PHASE II

- STEP 1: USING RSD 1101.03 SHEET 4 OF 9 (IN CONJUNCTION WITH RSD 1101.02), INSTALL THE TEMPORARY ROAD CLOSURE FOR NORTHBOUND TRAFFIC UTILIZING THE TEMPORARY MEDIAN CROSSOVERS, -XOVR1- AND -XOVR2-. THIS STEP WILL INCLUDE:
 PLACING ALL SIGNING, PORTABLE CONCRETE BARRIER, FROM STATION -L-STA. 19+06 TO -L- STA. 36+53 TYPE III BARRICADES, TEMPORARY PAVEMENT MARKINGS, AND SIGNAL TIMING ADJUSTMENT FOR THE INTERSECTION WITH W. 3RD STREET. THIS STEP WILL ALSO INCLUDE TEMPORARY ADJUSTMENT OF EXISTING SOUTHBOUND MEDIAN GUARDRAIL TO ACCOMMODATE NORTHBOUND DETOUR TRAFFIC.
- STEP 2: WITH THE TEMPORARY ROAD CLOSURE IN PLACE, REMOVE THE EXISTING NORTHBOUND BRIDGE AND CONSTRUCT THE NEW NORTHBOUND BRIDGE AND APPROACHES UP TO BUT NOT INCLUDING THE FINAL LIFT OF SURFACE COURSE. ADDITIONALLY, FINAL MEDIAN GRADING AND DRAINAGE WILL NECESSARILY WAIT FOR THE REMOVAL OF THE TEMPORARY MEDIAN CROSSOVERS.

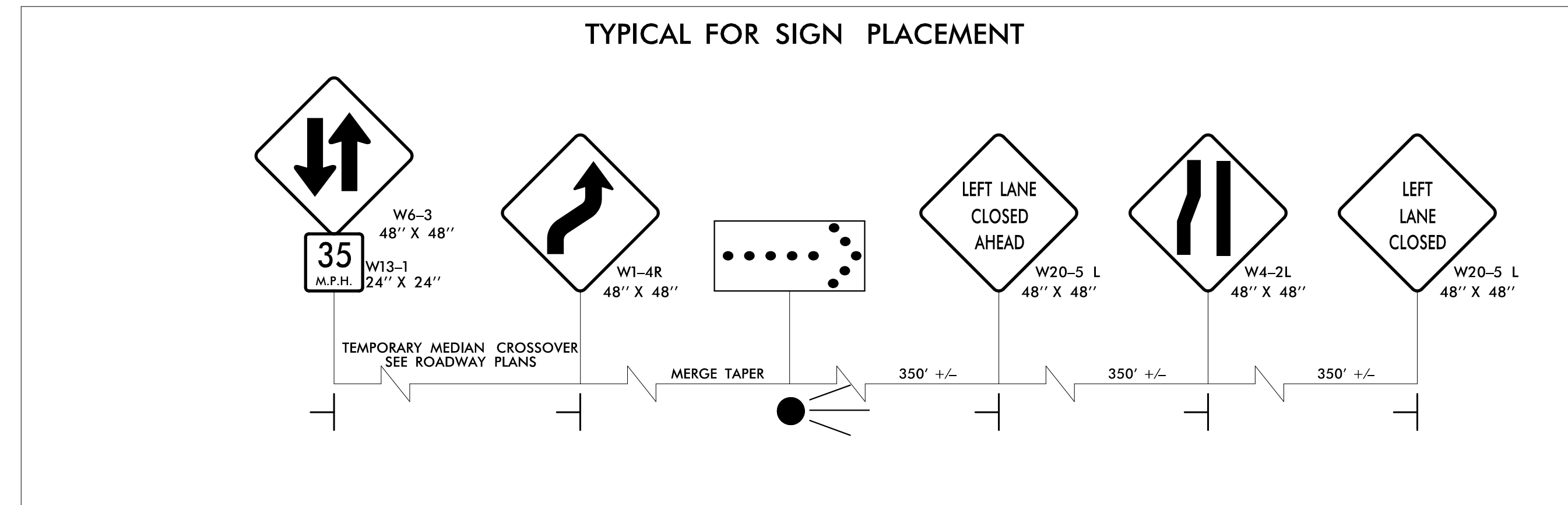
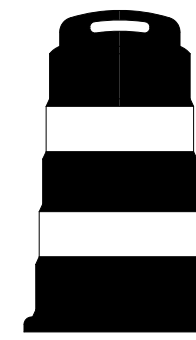
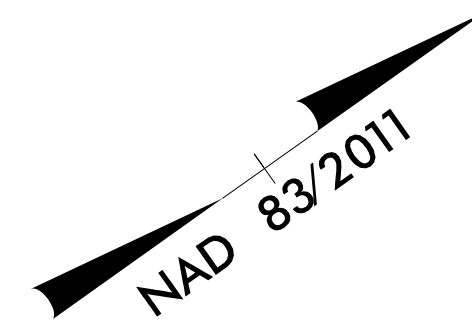
APPROVED: _____
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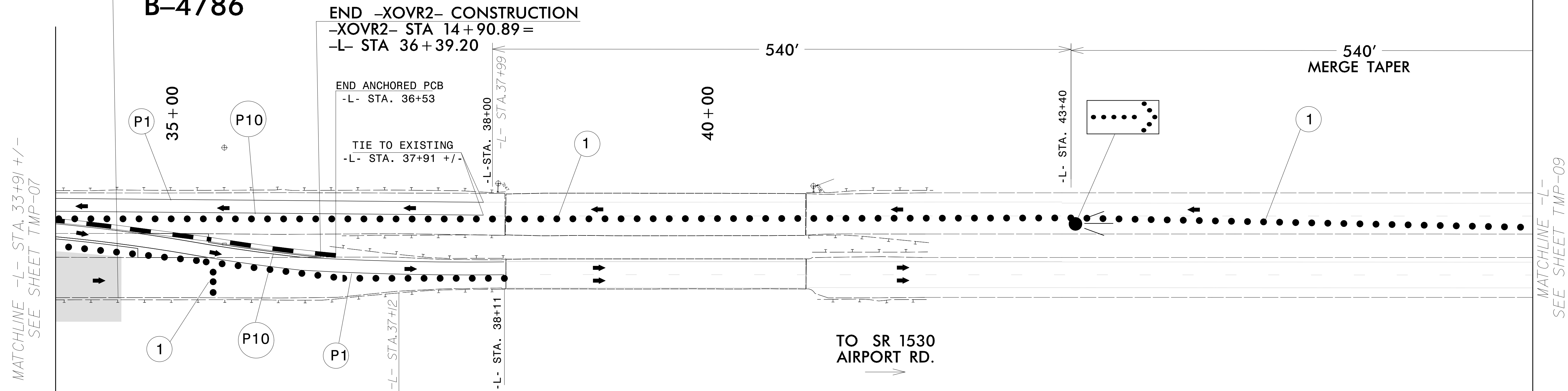
OVERVIEW
AND PHASING
PHASE II
DETAIL

NOTE:
Temporary raised pavement markers will be used along both edge lines to further delineate each direction of travel.



PROJ. REFERENCE NO.	SHEET NO.
B-4786	TMP-08
TGS ENGINEERS 706 HILLSBOROUGH ST. SUITE 200 RALEIGH, NC 27603 PH (919) 773-8887 CORP. LICENSE NO.: C-0275	

-L- STA. 34 + 50.00
END PROJECT
B-4786



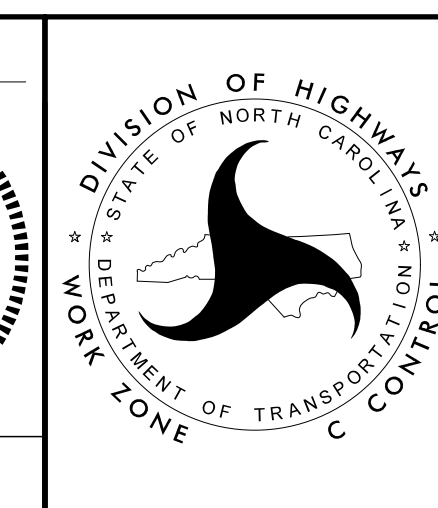
PHASE II NOTES

- STEP 1: USING RSD 1101.03 (IN CONJUNCTION WITH RSD 1101.02), INSTALL THE TEMPORARY ROAD CLOSURE FOR NORTHBOUND TRAFFIC UTILIZING THE TEMPORARY MEDIAN CROSSOVERS, -XOVR1- AND -XOVR2-. THIS STEP WILL INCLUDE: PLACING ALL SIGNING, PORTABLE CONCRETE BARRIER, FROM STATION -L- STA. 19+06 TO -L- STA. 36+53 TYPE III BARRICADES, TEMPORARY PAVEMENT MARKINGS, AND SIGNAL TIMING ADJUSTMENT FOR THE INTERSECTION WITH W. 3RD STREET. THIS STEP WILL ALSO INCLUDE TEMPORARY ADJUSTMENT OF EXISTING SOUTHBOUND MEDIAN GUARDRAIL TO ACCOMMODATE NORTHBOUND DETOUR TRAFFIC.
- STEP 2: WITH THE TEMPORARY ROAD CLOSURE IN PLACE, REMOVE THE EXISTING NORTHBOUND BRIDGE AND CONSTRUCT THE NEW NORTHBOUND BRIDGE AND APPROACHES UP TO BUT NOT INCLUDING THE FINAL LIFT OF SURFACE COURSE. ADDITIONALLY, FINAL MEDIAN GRADING AND DRAINAGE WILL NECESSARILY WAIT FOR THE REMOVAL OF THE TEMPORARY MEDIAN CROSSOVERS.

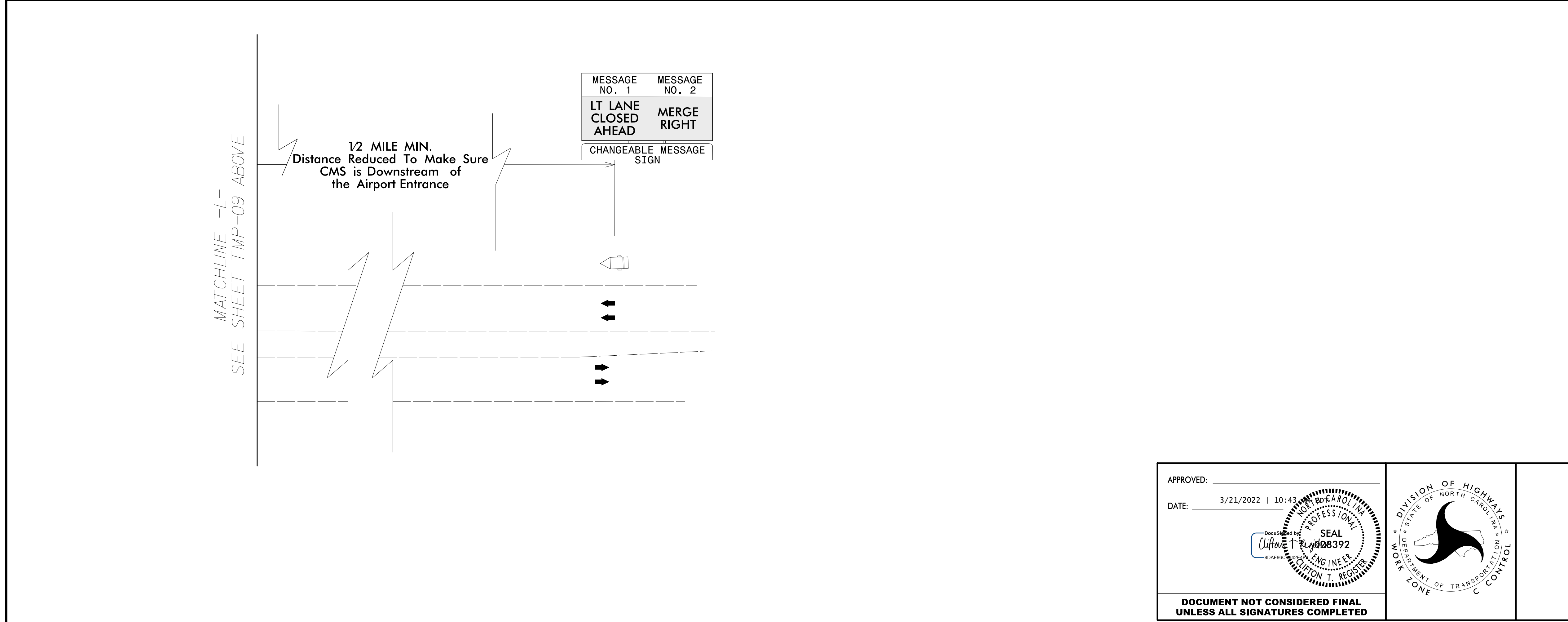
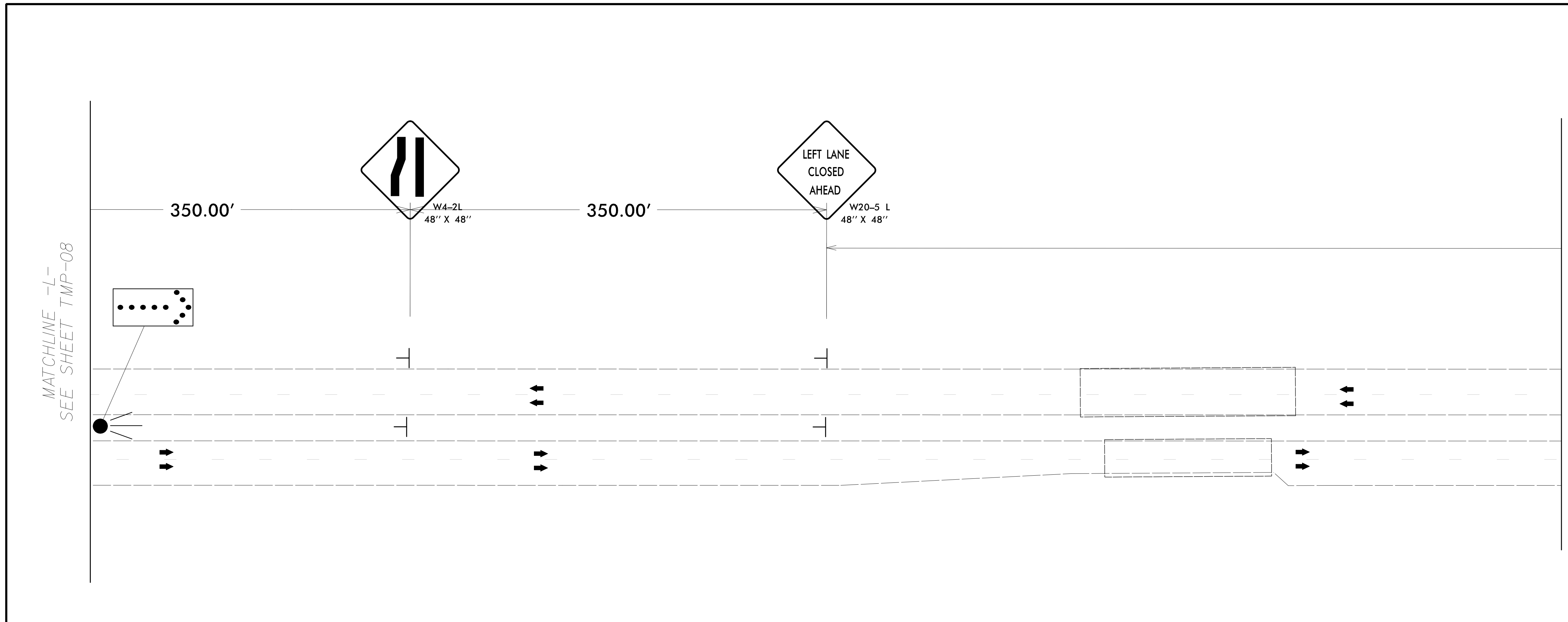
APPROVED: _____
 DATE: 3/21/2022 | 10:43

CLIFTON T. REGISTER
 PROFESSIONAL ENGINEER
 LICENSE NO. 392
 STATE OF NORTH CAROLINA

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



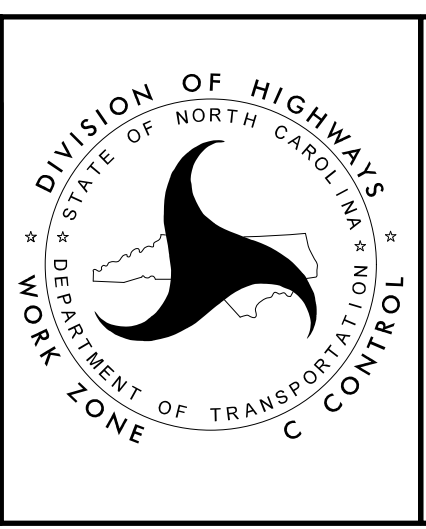
**OVERVIEW
AND PHASING
PHASE II
DETAIL**



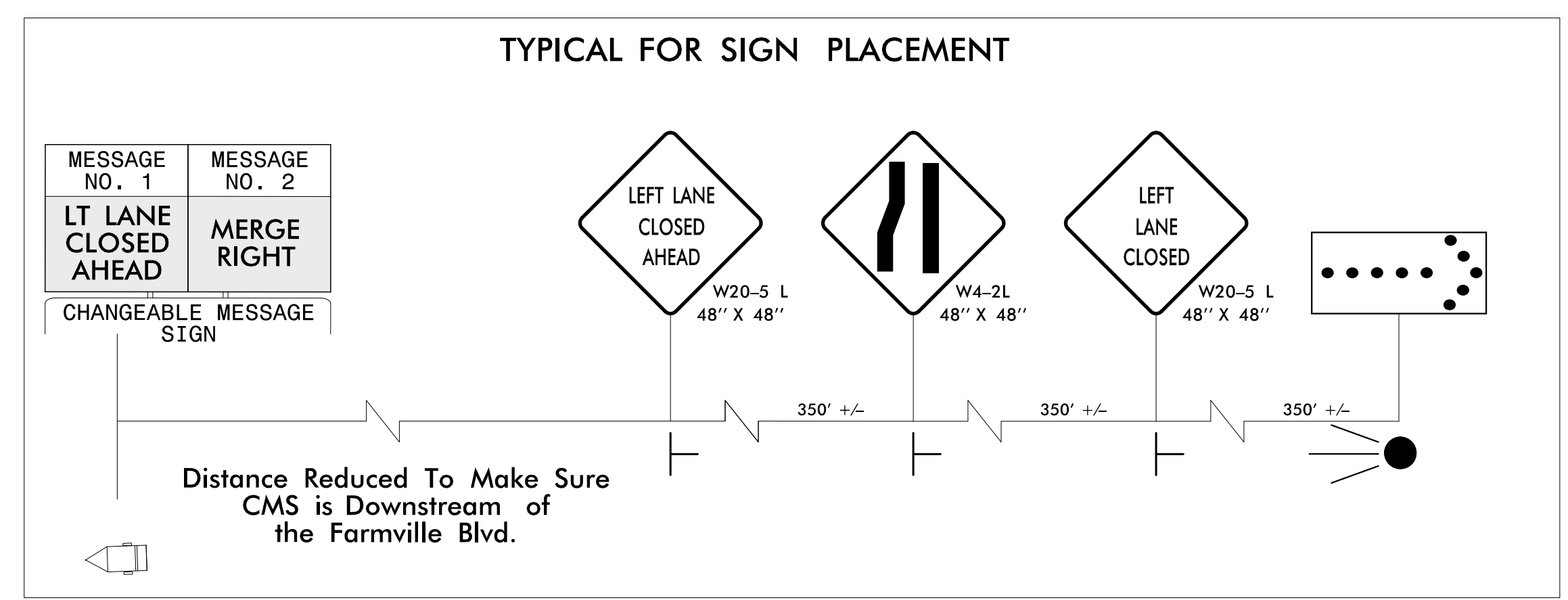
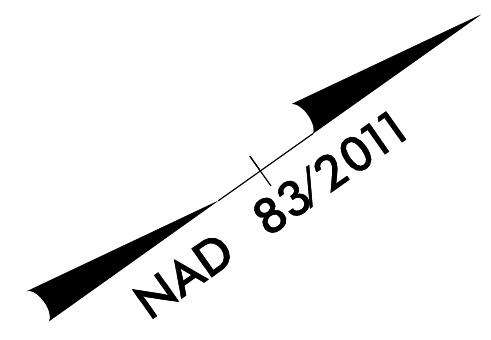
APPROVED: _____
DATE: 3/21/2022 | 10:43 AM

Seal of the State of North Carolina Professional Engineer
SEAL
008392
ENGINEER
WILSON T. REGISTER

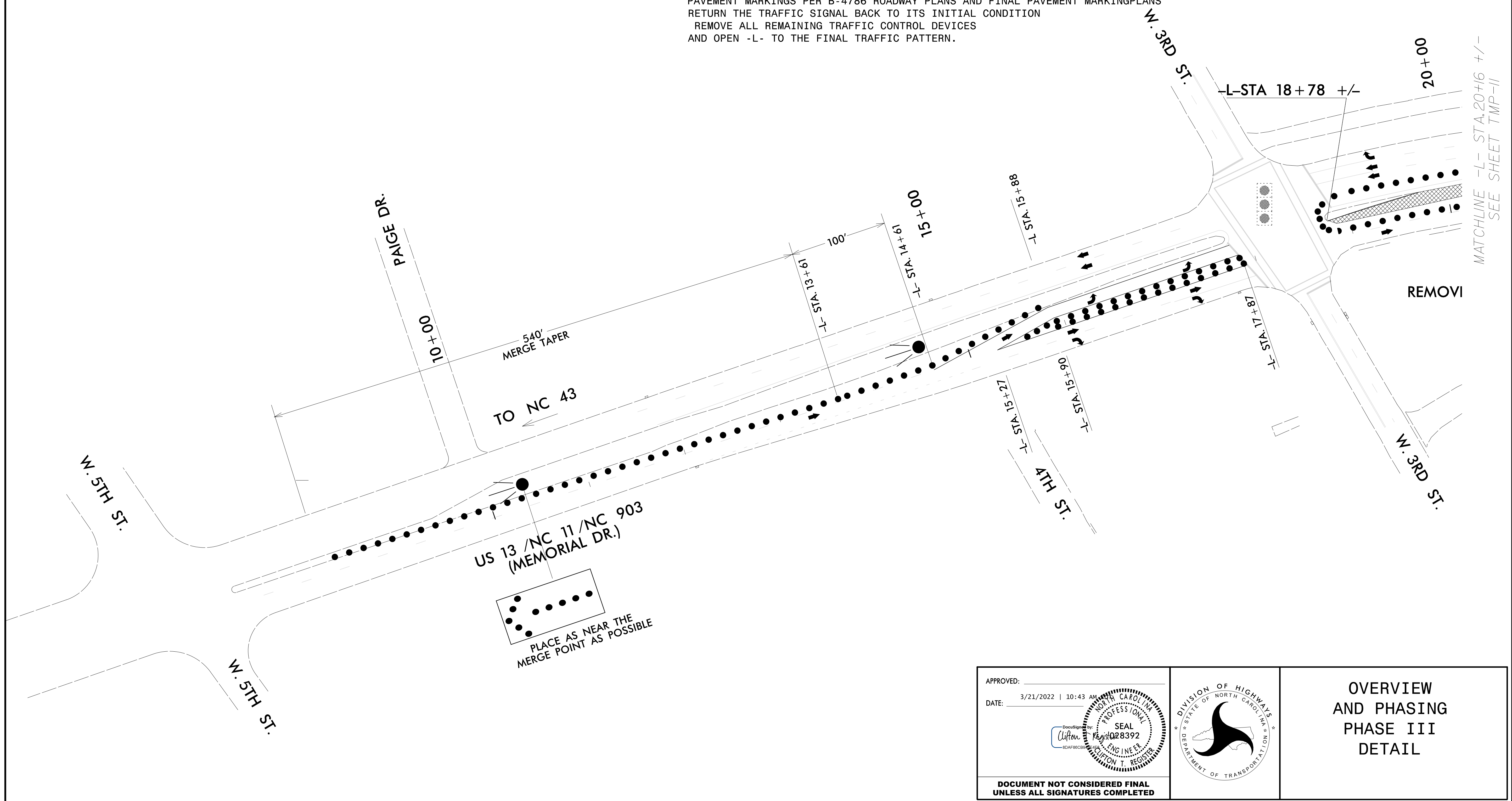
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UNLESS ALL SIGNATURES COMPLETED**



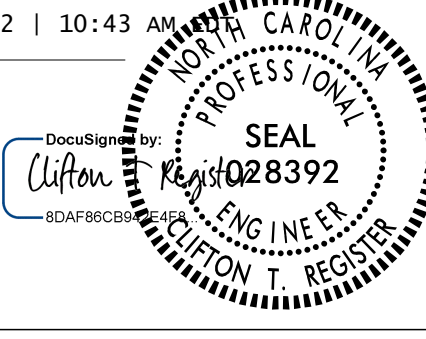
**OVERVIEW
AND PHASING
PHASE II
DETAIL**



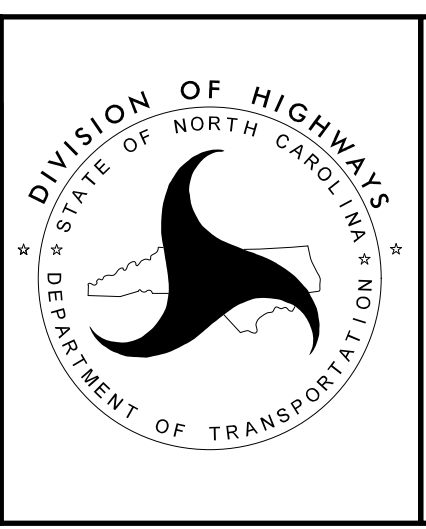
- PHASE III**
- STEP 1:** USING RSD 1101.02, SHEET 3 OF 14 AND TMP-10 THRU TMP 13 REMOVE THE TEMPORARY ROAD CLOSURE FOR NORTHBOUND TRAFFIC AND SHIFT TRAFFIC TO THE OUTSIDE LANES ON US 13 NORTH AND SOUTH BOUND. THIS STEP WILL INVOLVE: REMOVAL OF TEMPORARY ROAD CLOSURE DEVICES & MARKINGS FROM PHASE II, INSTALLATION OF TEMPORARY PAVEMENT MARKINGS SAME PATTERN AS PHASE 1, RELAP EXISTING GUARD RAIL AT -L- STA 24+35 +/- AND -L- STA 30+79 +/-, AND ADJUSTMENT OF SOUTHBOUND MEDIAN GUARDRAIL TO ITS FINAL LOCATION.
- STEP 2:** USING RSD 1101.04, PERFORM THE FINAL GRADING AND DRAINAGE WORK IN THE MEDIAN. USING RSD 1101.02, MILL (1.5") NORTHBOUND PAVEMENT FROM -L- STA. 18+78 +/- TO 22+96 +/- AND -L- STA. 33+21 +/- TO 36+39 +/-.
- STEP 3:** USING RSD 1101.02 SHEET 3 OF 14, PLACE THE FINAL LIFT OF SURFACE COURSE AND FINAL PAVEMENT MARKINGS PER B-4786 ROADWAY PLANS AND FINAL PAVEMENT MARKING PLANS RETURN THE TRAFFIC SIGNAL BACK TO ITS INITIAL CONDITION REMOVE ALL REMAINING TRAFFIC CONTROL DEVICES AND OPEN -L- TO THE FINAL TRAFFIC PATTERN.



APPROVED: _____
 DATE: 3/21/2022 | 10:43 AM

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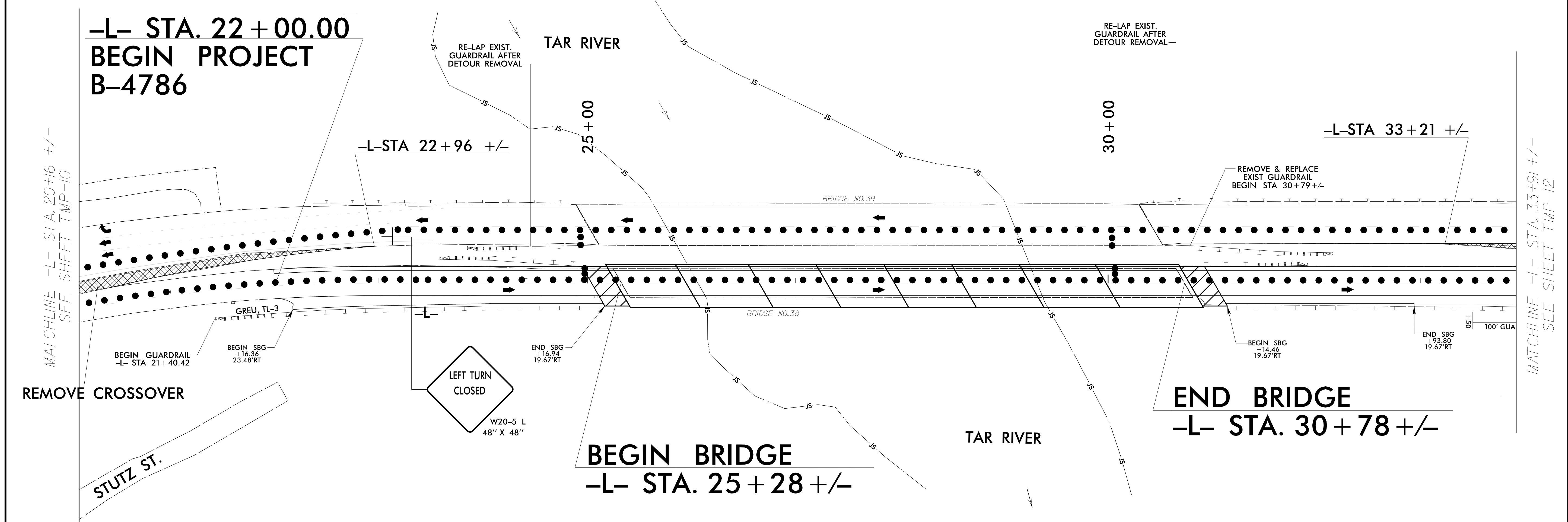


OVERVIEW AND PHASING PHASE III DETAIL

MATCHLINE -L- STA. 20+16 +/- SEE SHEET TMP-11

PHASE III

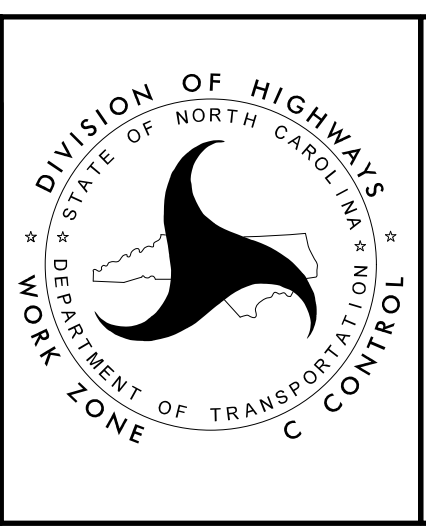
- STEP 1: USING RSD 1101.02, SHEET 3 OF 14 AND TMP-10 THRU TMP 13 REMOVE THE TEMPORARY ROAD CLOSURE FOR NORTHBOUND TRAFFIC AND SHIFT TRAFFIC TO THE OUTSIDE LANES ON US 13 NORTH AND SOUTH BOUND. THIS STEP WILL INVOLVE: REMOVAL OF TEMPORARY ROAD CLOSURE DEVICES & MARKINGS FROM PHASE II, INSTALLATION OF TEMPORARY PAVEMENT MARKINGS SAME PATTERN AS PHASE 1, RELAP EXISTING GUARD RAIL AT -L- STA 24+35+/- AND -L- STA 30+79 +/-, AND ADJUSTMENT OF SOUTHBOUND MEDIAN GUARDRAIL TO ITS FINAL LOCATION.
- STEP 2: USING RSD 1101.04, PERFORM THE FINAL GRADING AND DRAINAGE WORK IN THE MEDIAN. USING RSD 1101.02, MILL (1.5") NORTHBOUND PAVEMENT FROM -L- STA. 18+78+/- TO 22+96+/- AND -L- STA. 33+21+/- TO 36+39+/-.
- STEP 3: USING RSD 1101.02 SHEET 3 OF 14, PLACE THE FINAL LIFT OF SURFACE COURSE AND FINAL PAVEMENT MARKINGS PER B-4786 ROADWAY PLANS AND FINAL PAVEMENT MARKING PLANS RETURN THE TRAFFIC SIGNAL BACK TO ITS INITIAL CONDITION REMOVE ALL REMAINING TRAFFIC CONTROL DEVICES AND OPEN -L- TO THE FINAL TRAFFIC PATTERN.



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DATE: 3/21/2022 | 10:41 AM

DocuSigned by:
Clifton T. Register
SEAL
028392
ENGINEER
CLIFTON T. REGISTER

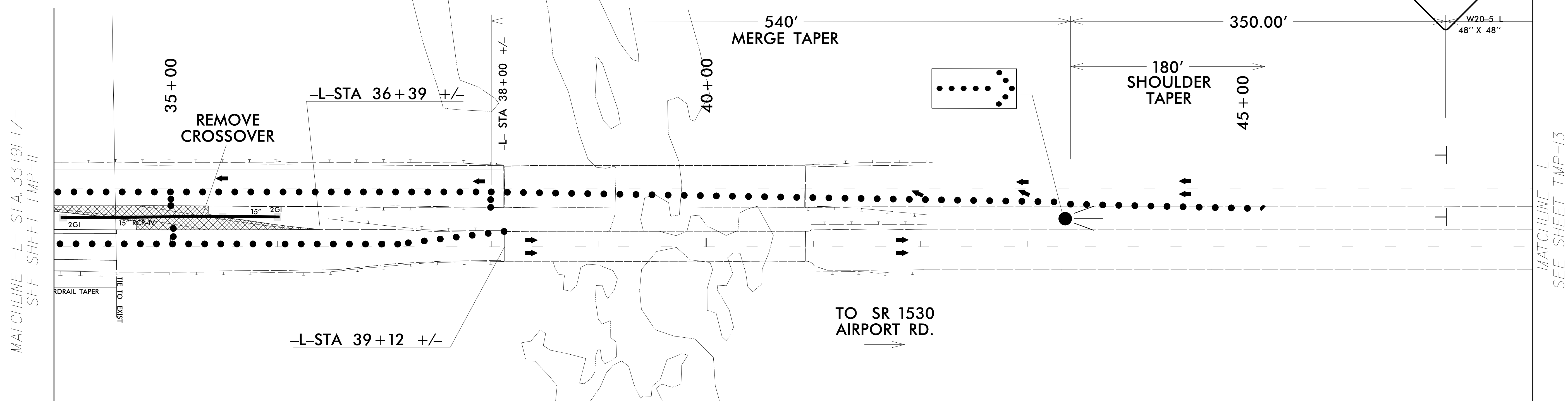
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UNLESS ALL SIGNATURES COMPLETED



OVERVIEW
AND PHASING
PHASE III
DETAIL



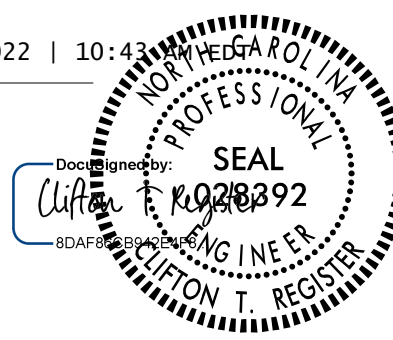
**-L- STA. 34 + 50.00
END PROJECT
B-4786**



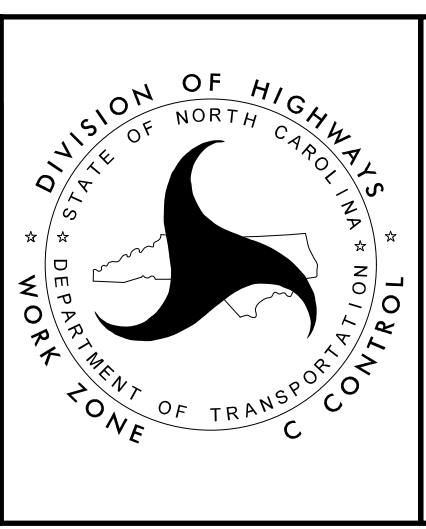
PHASE III

- STEP 1: USING RSD 1101.02, SHEET 3 OF 14 AND TMP-10 THRU TMP 13 REMOVE THE TEMPORARY ROAD CLOSURE FOR NORTHBOUND TRAFFIC AND SHIFT TRAFFIC TO THE OUTSIDE LANES ON US 13 NORTH AND SOUTH BOUND. THIS STEP WILL INVOLVE: REMOVAL OF TEMPORARY ROAD CLOSURE DEVICES & MARKINGS FROM PHASE II, INSTALLATION OF TEMPORARY PAVEMENT MARKINGS SAME PATTERN AS PHASE 1, RELAP EXISTING GUARD RAIL AT -L- STA 24+35+/- AND -L- STA 30+79 +/-, AND ADJUSTMENT OF SOUTHBOUND MEDIAN GUARDRAIL TO ITS FINAL LOCATION.
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- STEP 3: USING RSD 1101.02 SHEET 3 OF 14, PLACE THE FINAL LIFT OF SURFACE COURSE AND FINAL PAVEMENT MARKINGS PER B-4786 ROADWAY PLANS AND FINAL PAVEMENT MARKING PLANS RETURN THE TRAFFIC SIGNAL BACK TO ITS INITIAL CONDITION REMOVE ALL REMAINING TRAFFIC CONTROL DEVICES AND OPEN -L- TO THE FINAL TRAFFIC PATTERN.

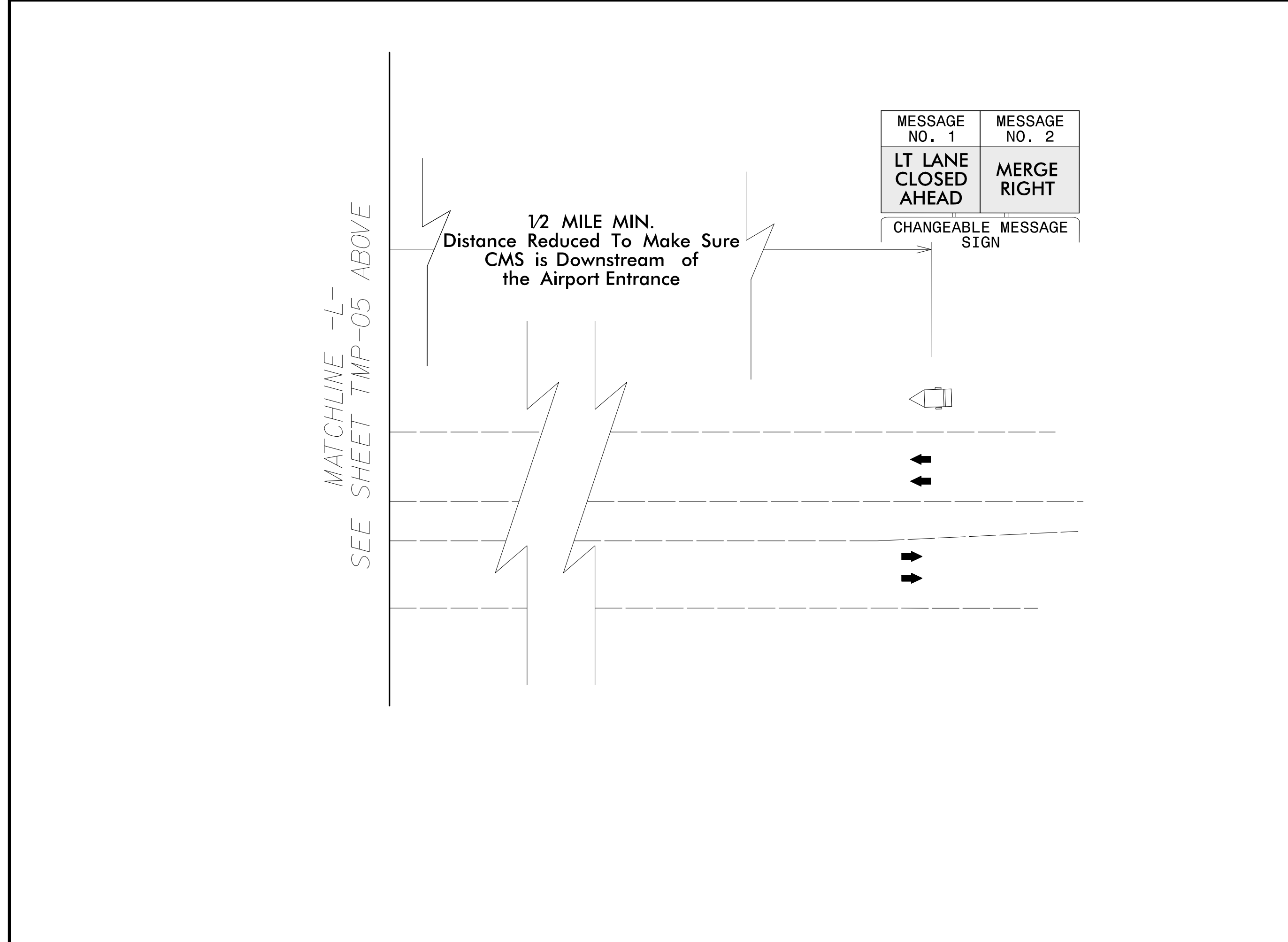
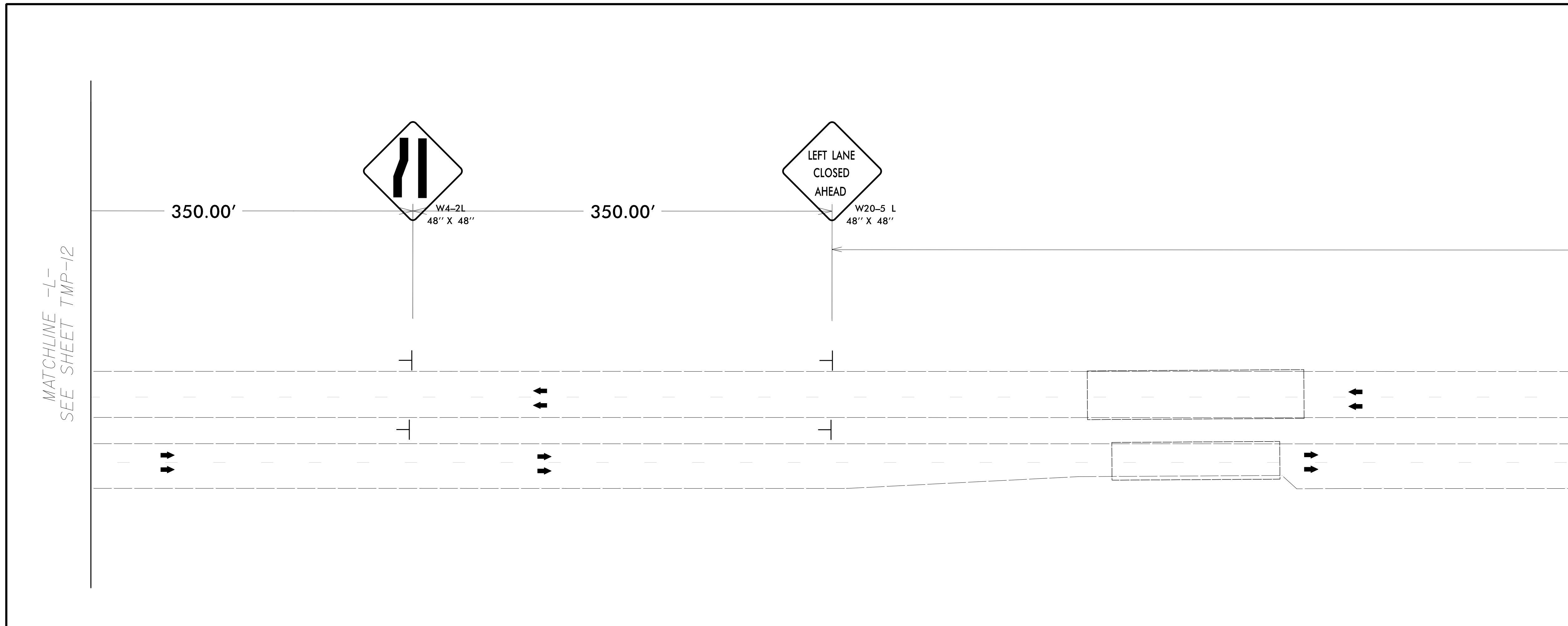
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**OVERVIEW
AND PHASING
PHASE III
DETAIL**



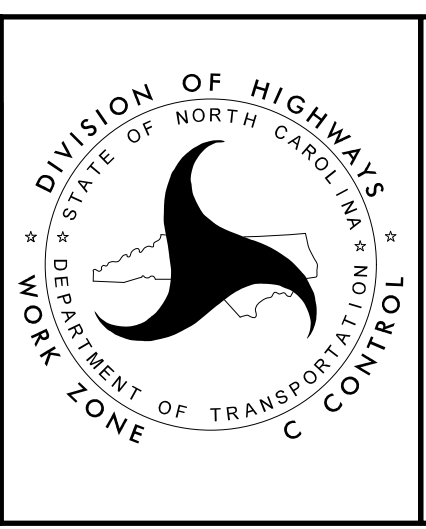
PHASE III

- STEP 1: USING RSD 1101.02, SHEET 3 OF 14 AND TMP-10 THRU TMP 13 REMOVE THE TEMPORARY ROAD CLOSURE FOR NORTHBOUND TRAFFIC AND SHIFT TRAFFIC TO THE OUTSIDE LANES ON US 13 NORTH AND SOUTH BOUND. THIS STEP WILL INVOLVE: REMOVAL OF TEMPORARY ROAD CLOSURE DEVICES & MARKINGS FROM PHASE II, INSTALLATION OF TEMPORARY PAVEMENT MARKINGS SAME PATTERN AS PHASE 1, RELAP EXISTING GUARD RAIL AT -L- STA 24+35+/- AND -L- STA 30+79 +/-, AND ADJUSTMENT OF SOUTHBOUND MEDIAN GUARDRAIL TO ITS FINAL LOCATION.
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- STEP 3: USING RSD 1101.02 SHEET 3 OF 14, PLACE THE FINAL LIFT OF SURFACE COURSE AND FINAL PAVEMENT MARKINGS PER B-4786 ROADWAY PLANS AND FINAL PAVEMENT MARKING PLANS RETURN THE TRAFFIC SIGNAL BACK TO ITS INITIAL CONDITION REMOVE ALL REMAINING TRAFFIC CONTROL DEVICES AND OPEN -L- TO THE FINAL TRAFFIC PATTERN.

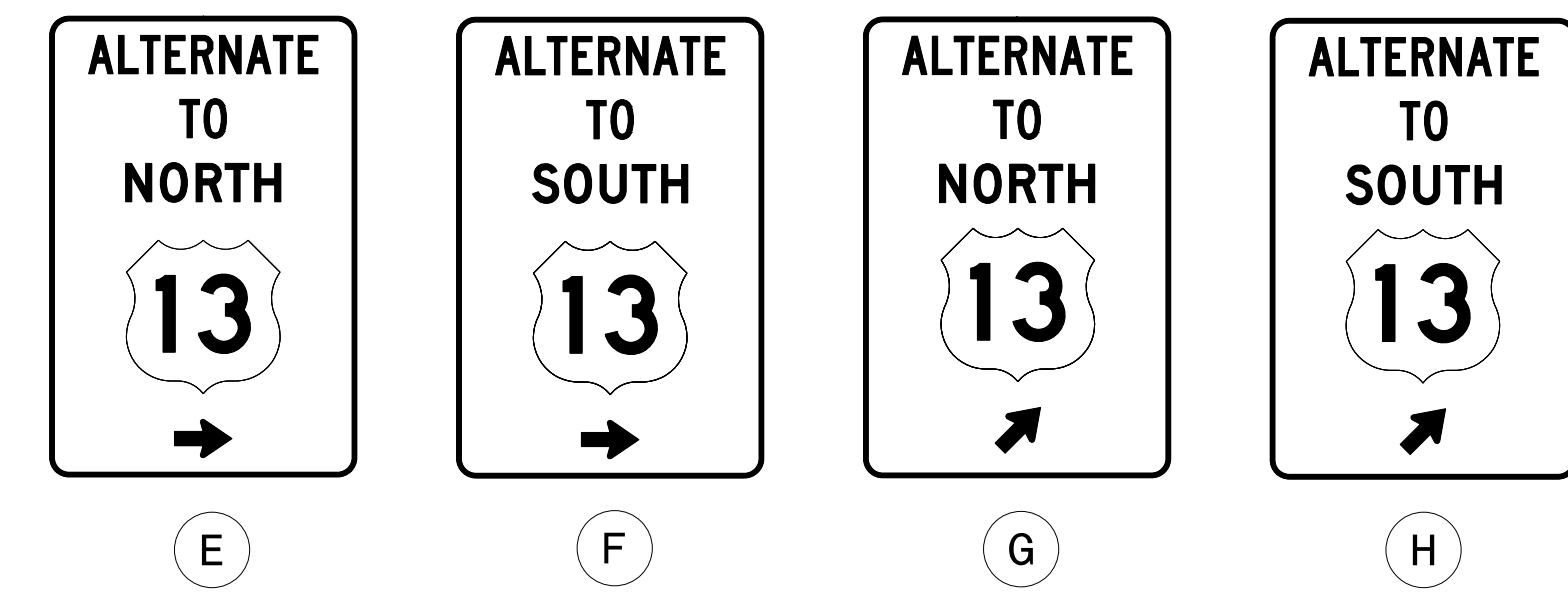
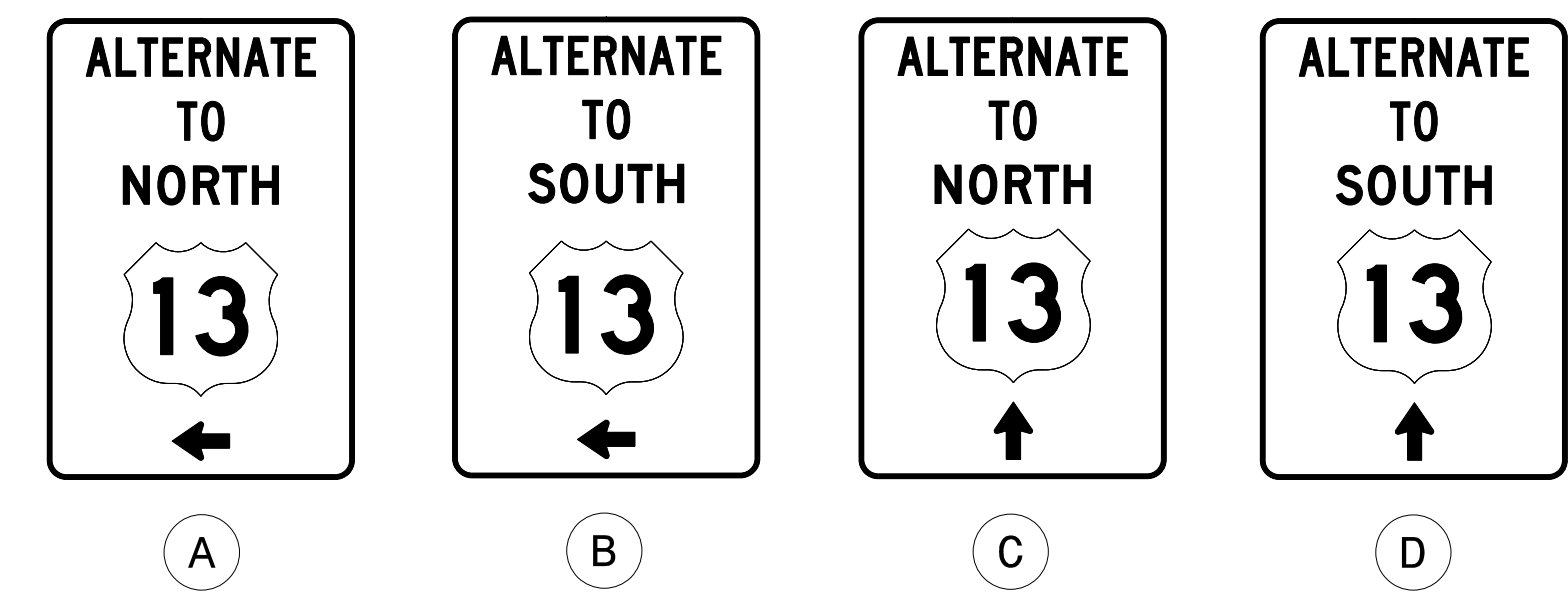
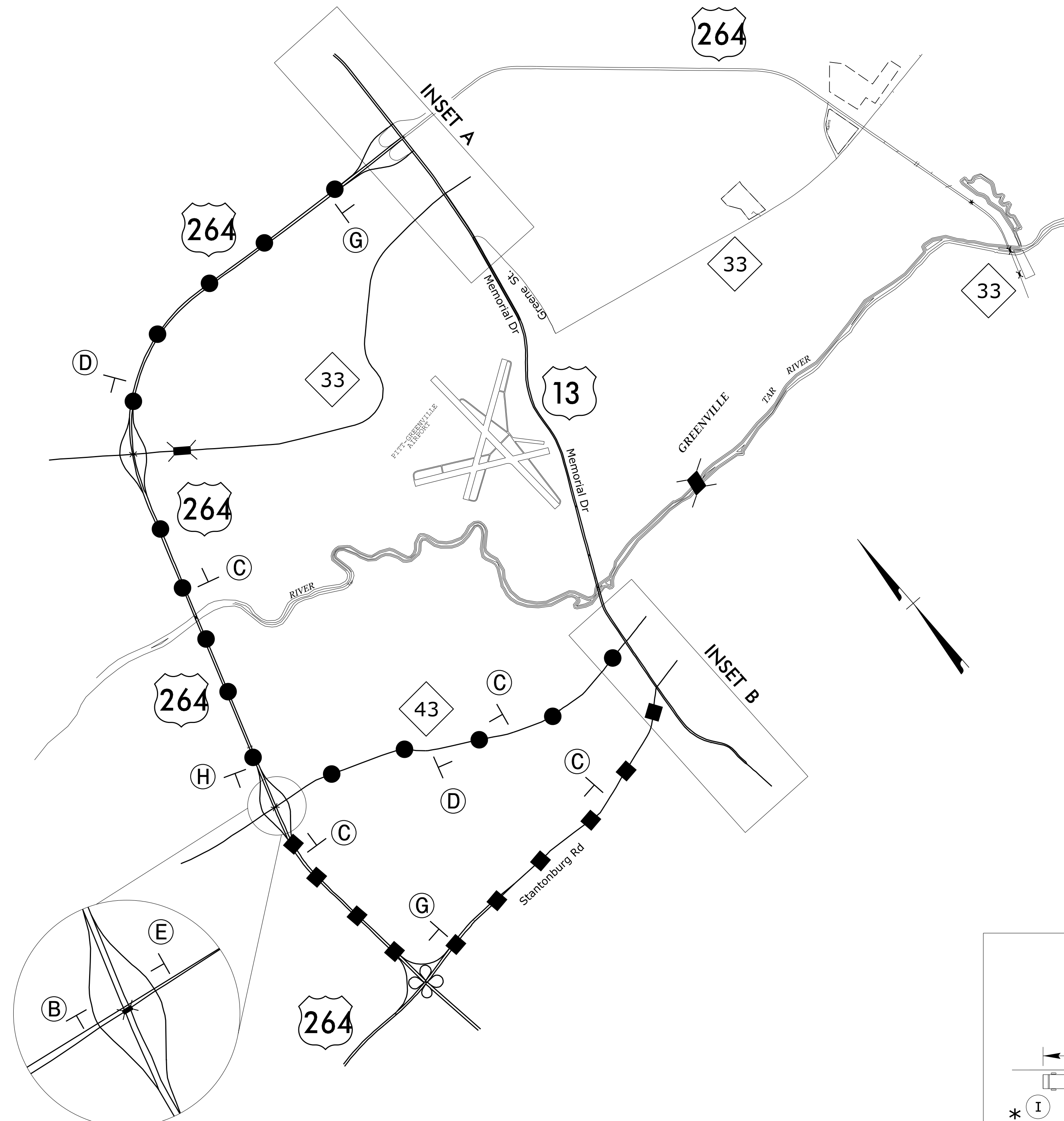
APPROVED: _____
DATE: 3/21/2022 | 10:43

DocuSign
SEAL
08392
REGISTERED PROFESSIONAL ENGINEER
CLAYTON T. REGISTER

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

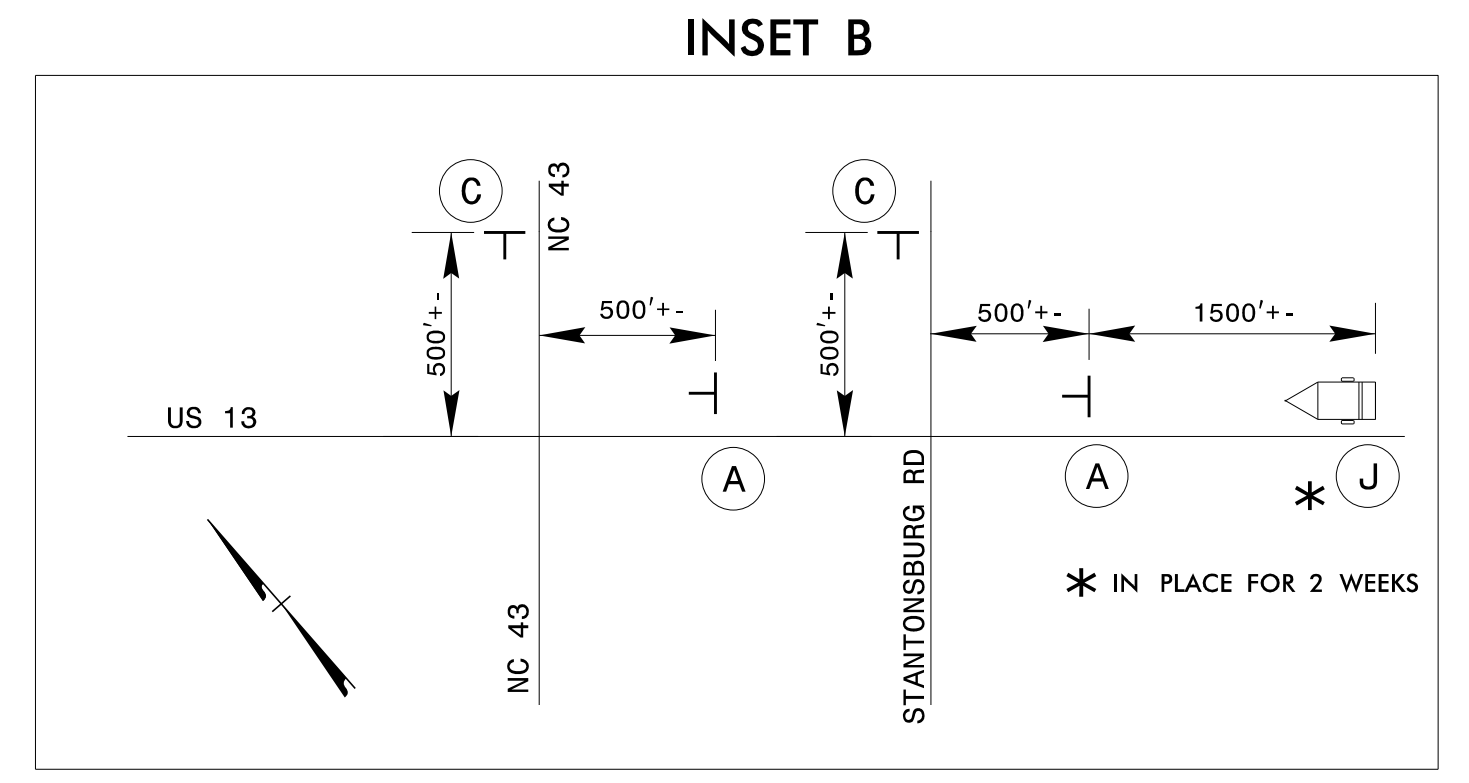
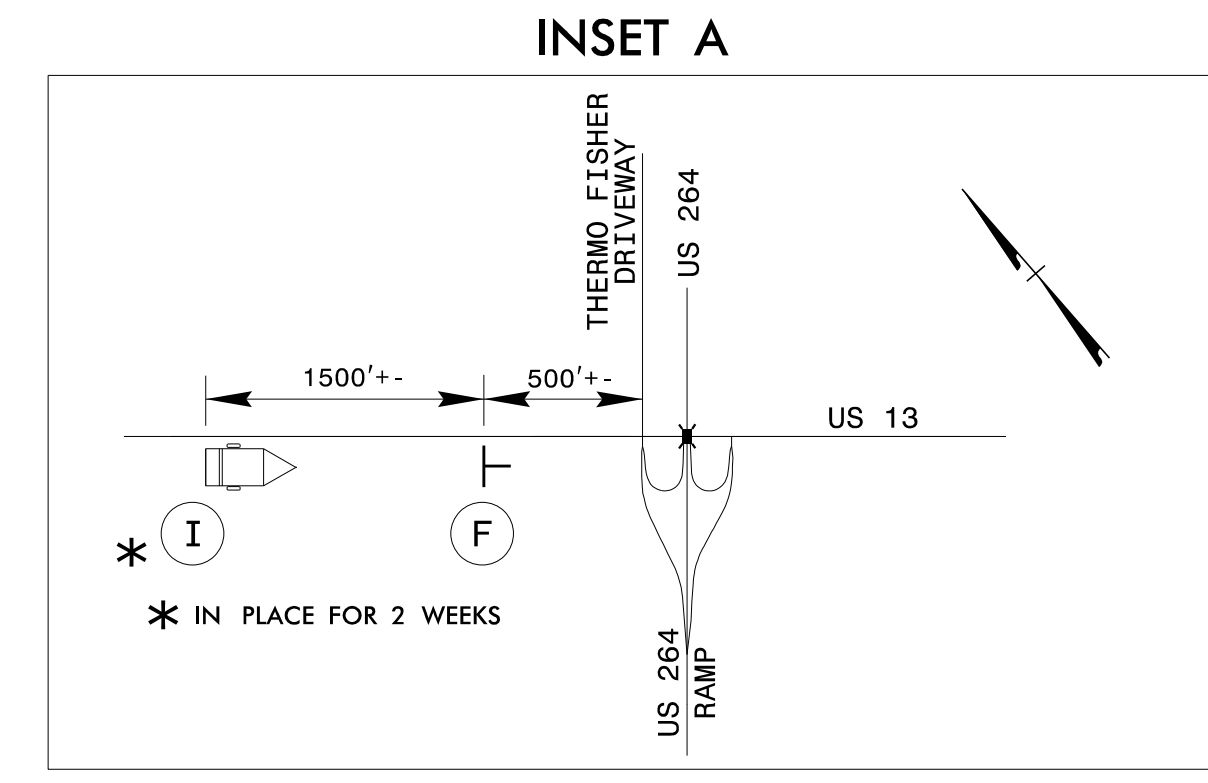
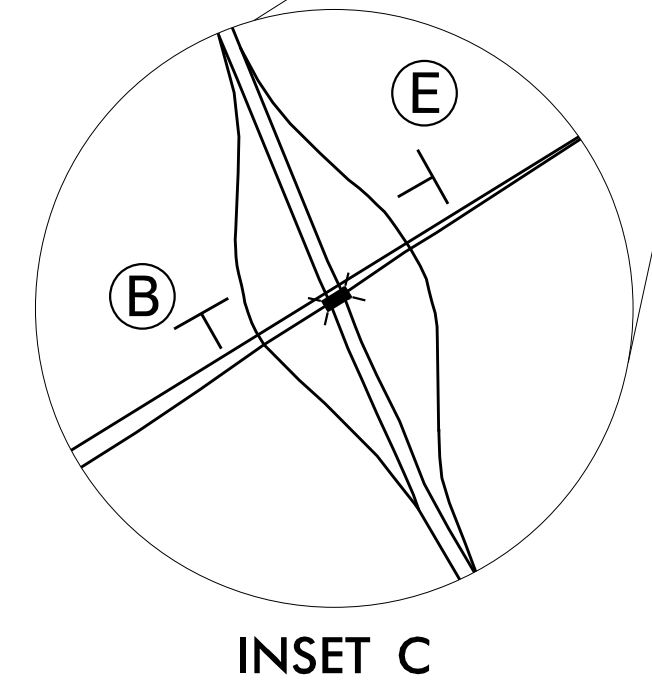


OVERVIEW AND PHASING PHASE III DETAIL



MESSAGE NO. 1	MESSAGE NO. 2
US13 S ROADWORK AHEAD	US13 ALT NEXT RIGHT
CHANGEABLE MESSAGE SIGN	

MESSAGE NO. 1	MESSAGE NO. 2
US13 N ROADWORK AHEAD	US13 ALT NEXT LEFT
CHANGEABLE MESSAGE SIGN	



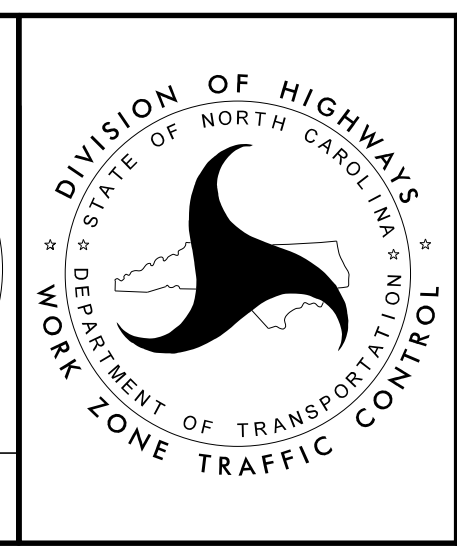
- - ALTERNATIVE OFFSITE DETOUR ROUTE A
- - ALTERNATIVE OFFSITE DETOUR ROUTE B

NOTES:
 1. REFER TO RSD 1101.03, SHEET 1 OF 9, FOR SIGN DISTANCES AND APPLICABLE NOTES.

7/12/2022
 R:\TrafficControl\CPA\B-4786_Rdy_dsn_5.12.2022.dgn
 User:wmdebrow

APPROVED: *Don A. Parker*
 DATE: 07/12/2022

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



US 13
 ALTERNATE DETOUR

SIGN NUMBER: 101 TYPE: A BACKG COLOR: Green COPY COLOR: White DESIGN BY: S. Johns CHECKED BY: A. Alqudwah LOCATION: May 13, 2022 DIV: 2
 PROJECT ID: B-4786

SYMBOL	X	Y	WID	HT
M1_4	12	13	24	24
AR_Type D	19.5	3	6	9

QUANTITY: 1
 SIGN WIDTH: 4'-0"
 HEIGHT: 6'-0"
 TOTAL AREA: 24.0 Sq.Ft.
 BORDER TYPE: FLUSH
 RECESS: 0"
 WIDTH: 0.75"
 RADII: 3"
 NO. Z BARS: 2
 LENGTH: 40.0
 MAT'L: 0.125" (3.2 mm) ALUMINUM

USE NOTES:
 1. Legend and border(except those that are colored black) shall be direct applied Grade C sheeting.
 2. Background shall be Grade C reflective sheeting.
 3. Shields: A, B, and C type arrows shall be on 0.032" (0.8mm) aluminum and demountable.

LETTER POSITIONS
 Letter spacings are to start of next letter

Series/Size	Text Length
C 2000	35.8
C 2000	7.3
D 2000	24.2

FILENAME: B-4786_Sign Design NORTH CAROLINA D.O.T. SIGN DETAIL

SIGN NUMBER: 105 TYPE: A BACKG COLOR: Green COPY COLOR: White DESIGN BY: S. Johns CHECKED BY: A. Alqudwah LOCATION: May 13, 2022 DIV: 2
 PROJECT ID: B-4786

SYMBOL	X	Y	WID	HT
M1_4	12	13	24	24
AR_Type D	19.5	3	6	9

QUANTITY: 1
 SIGN WIDTH: 4'-0"
 HEIGHT: 6'-0"
 TOTAL AREA: 24.0 Sq.Ft.
 BORDER TYPE: FLUSH
 RECESS: 0"
 WIDTH: 0.75"
 RADII: 3"
 NO. Z BARS: 2
 LENGTH: 40.0
 MAT'L: 0.125" (3.2 mm) ALUMINUM

USE NOTES:
 1. Legend and border(except those that are colored black) shall be direct applied Grade C sheeting.
 2. Background shall be Grade C reflective sheeting.
 3. Shields: A, B, and C type arrows shall be on 0.032" (0.8mm) aluminum and demountable.

LETTER POSITIONS
 Letter spacings are to start of next letter

Series/Size	Text Length
C 2000	35.8
C 2000	7.3
D 2000	24.2

FILENAME: B-4786_Sign Design NORTH CAROLINA D.O.T. SIGN DETAIL

SIGN NUMBER: 102 TYPE: A BACKG COLOR: Green COPY COLOR: White DESIGN BY: S. Johns CHECKED BY: A. Alqudwah LOCATION: May 13, 2022 DIV: 2
 PROJECT ID: B-4786

SYMBOL	X	Y	WID	HT
M1_4	12.1	15	24	24
AR_Type D	21.1	3	6	9

QUANTITY: 1
 SIGN WIDTH: 4'-0"
 HEIGHT: 6'-0"
 TOTAL AREA: 24.0 Sq.Ft.
 BORDER TYPE: FLUSH
 RECESS: 0"
 WIDTH: 0.75"
 RADII: 3"
 NO. Z BARS: 2
 LENGTH: 40.0
 MAT'L: 0.125" (3.2 mm) ALUMINUM

USE NOTES:
 1. Legend and border(except those that are colored black) shall be direct applied Grade C sheeting.
 2. Background shall be Grade C reflective sheeting.
 3. Shields: A, B, and C type arrows shall be on 0.032" (0.8mm) aluminum and demountable.

LETTER POSITIONS
 Letter spacings are to start of next letter

Series/Size	Text Length
C 2000	35.8
C 2000	7.3
D 2000	24.2

FILENAME: B-4786_Sign Design NORTH CAROLINA D.O.T. SIGN DETAIL

SIGN NUMBER: 106 TYPE: A BACKG COLOR: Green COPY COLOR: White DESIGN BY: S. Johns CHECKED BY: A. Alqudwah LOCATION: May 13, 2022 DIV: 2
 PROJECT ID: B-4786

SYMBOL	X	Y	WID	HT
M1_4	12.1	15	24	24
AR_Type D	21.1	3	6	9

QUANTITY: 1
 SIGN WIDTH: 4'-0"
 HEIGHT: 6'-0"
 TOTAL AREA: 24.0 Sq.Ft.
 BORDER TYPE: FLUSH
 RECESS: 0"
 WIDTH: 0.75"
 RADII: 3"
 NO. Z BARS: 2
 LENGTH: 40.0
 MAT'L: 0.125" (3.2 mm) ALUMINUM

USE NOTES:
 1. Legend and border(except those that are colored black) shall be direct applied Grade C sheeting.
 2. Background shall be Grade C reflective sheeting.
 3. Shields: A, B, and C type arrows shall be on 0.032" (0.8mm) aluminum and demountable.

LETTER POSITIONS
 Letter spacings are to start of next letter

Series/Size	Text Length
C 2000	35.8
C 2000	7.3
D 2000	24.2

FILENAME: B-4786_Sign Design NORTH CAROLINA D.O.T. SIGN DETAIL

SIGN NUMBER: 103 TYPE: A BACKG COLOR: Green COPY COLOR: White
 QUANTITY: 1
 SIGN WIDTH: 4'-0" HEIGHT: 6'-0" TOTAL AREA: 24.0 Sq.Ft.
 BORDER TYPE: FLUSH RECESS: 0" WIDTH: 0.75" RADII: 3"
 NO. Z BARS: 2 LENGTH: 40.0 MAT'L: 0.125" (3.2 mm) ALUMINUM
 DESIGN BY: S.Johns CHECKED BY: A.AIQudwah LOCATION: May 13, 2022 DIV: 2
 PROJECT ID: B-4786

USE NOTES:
 1. Legend and border(except those that are colored black) shall be direct applied Grade C sheeting.
 2. Background shall be Grade C reflective sheeting.
 3. Shields: A, B, and C type arrows shall be on 0.032" (0.8mm) aluminum and demountable.

LETTER POSITIONS
 Letter spacings are to start of next letter

Series/Size	Text Length
C 2000	35.8
C 2000	7.3
D 2000	24.2

FILENAME: B-4786_Sign Design NORTH CAROLINA D.O.T. SIGN DETAIL

SIGN NUMBER: 106 TYPE: A BACKG COLOR: Green COPY COLOR: White
 QUANTITY: 1
 SIGN WIDTH: 4'-0" HEIGHT: 6'-0" TOTAL AREA: 24.0 Sq.Ft.
 BORDER TYPE: FLUSH RECESS: 0" WIDTH: 0.75" RADII: 3"
 NO. Z BARS: 2 LENGTH: 40.0 MAT'L: 0.125" (3.2 mm) ALUMINUM
 DESIGN BY: S.Johns CHECKED BY: A.AIQudwah LOCATION: May 13, 2022 DIV: 2
 PROJECT ID: B-4786

USE NOTES:
 1. Legend and border(except those that are colored black) shall be direct applied Grade C sheeting.
 2. Background shall be Grade C reflective sheeting.
 3. Shields: A, B, and C type arrows shall be on 0.032" (0.8mm) aluminum and demountable.

LETTER POSITIONS
 Letter spacings are to start of next letter

Series/Size	Text Length
C 2000	35.8
C 2000	7.3
D 2000	24.2

FILENAME: B-4786_Sign Design NORTH CAROLINA D.O.T. SIGN DETAIL

SIGN NUMBER: 104 TYPE: A BACKG COLOR: Green COPY COLOR: White
 QUANTITY: 1
 SIGN WIDTH: 4'-0" HEIGHT: 6'-0" TOTAL AREA: 24.0 Sq.Ft.
 BORDER TYPE: FLUSH RECESS: 0" WIDTH: 0.75" RADII: 3"
 NO. Z BARS: 2 LENGTH: 40.0 MAT'L: 0.125" (3.2 mm) ALUMINUM
 DESIGN BY: S.Johns CHECKED BY: A.AIQudwah LOCATION: May 13, 2022 DIV: 2
 PROJECT ID: B-4786

USE NOTES:
 1. Legend and border(except those that are colored black) shall be direct applied Grade C sheeting.
 2. Background shall be Grade C reflective sheeting.
 3. Shields: A, B, and C type arrows shall be on 0.032" (0.8mm) aluminum and demountable.

LETTER POSITIONS
 Letter spacings are to start of next letter

Series/Size	Text Length
C 2000	35.8
C 2000	7.3
D 2000	24.2

FILENAME: B-4786_Sign Design NORTH CAROLINA D.O.T. SIGN DETAIL

SIGN NUMBER: 108 TYPE: A BACKG COLOR: Green COPY COLOR: White
 QUANTITY: 1
 SIGN WIDTH: 4'-0" HEIGHT: 6'-0" TOTAL AREA: 24.0 Sq.Ft.
 BORDER TYPE: FLUSH RECESS: 0" WIDTH: 0.75" RADII: 3"
 NO. Z BARS: 2 LENGTH: 40.0 MAT'L: 0.125" (3.2 mm) ALUMINUM
 DESIGN BY: S.Johns CHECKED BY: A.AIQudwah LOCATION: May 13, 2022 DIV: 2
 PROJECT ID: B-4786

USE NOTES:
 1. Legend and border(except those that are colored black) shall be direct applied Grade C sheeting.
 2. Background shall be Grade C reflective sheeting.
 3. Shields: A, B, and C type arrows shall be on 0.032" (0.8mm) aluminum and demountable.

LETTER POSITIONS
 Letter spacings are to start of next letter

Series/Size	Text Length
C 2000	35.8
C 2000	7.3
D 2000	24.2

FILENAME: B-4786_Sign Design NORTH CAROLINA D.O.T. SIGN DETAIL

7/12/2022
 P:\Traffic\TrafficControl\TCP\Alt Detour\B-4786_TMP_SUP2b.dgn
 User:wmdbrew

SIGN DESIGN