

**This electronic collection of documents is provided
for the convenience of the user
and is Not a Certified Document –**

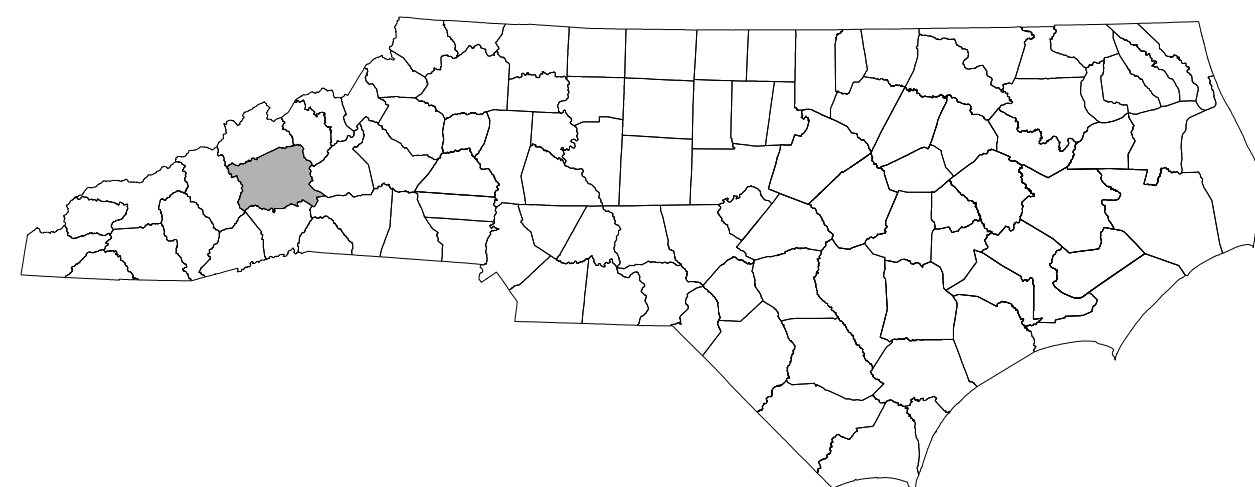
**The documents contained herein were originally issued
and sealed by the individuals whose names and license
numbers appear on each page, on the dates appearing
with their signature on that page.**

**This file or an individual page
shall not be considered a certified document.**

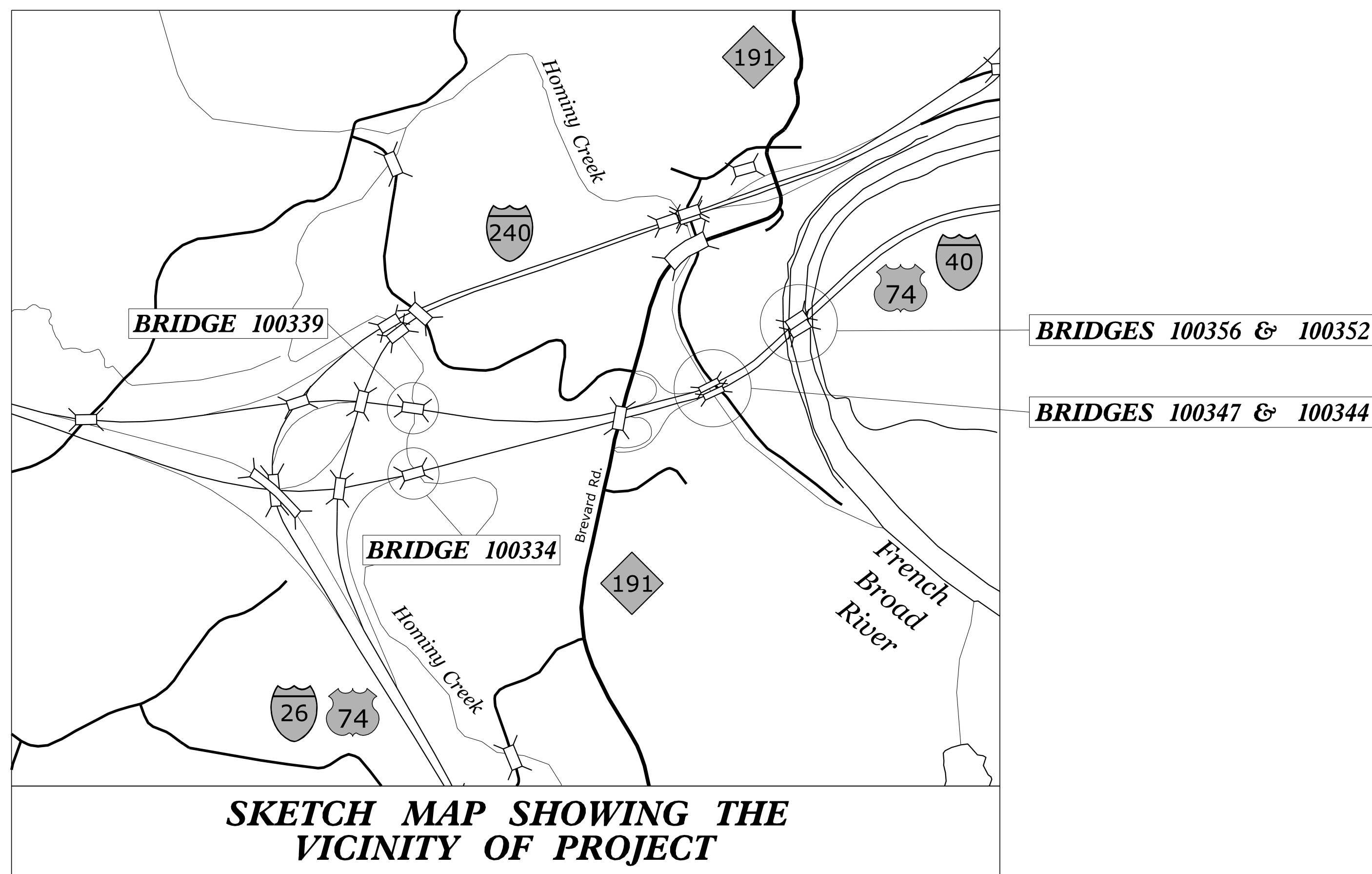
STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

TRANSPORTATION MANAGEMENT PLAN

BUNCOMBE COUNTY



LOCATION: I-40 OVER HOMINY CREEK, HOMINY CREEK RD AND FRENCH BROAD RIVER



INDEX OF SHEETS

SHEET NO.	TITLE
TMP-1	TITLE SHEET, VICINITY MAP, INDEX OF SHEETS AND MANAGEMENT STRATEGIES
TMP-1A	ROADWAY STANDARD DRAWINGS AND LEGEND
TMP-1B	GENERAL AND LOCAL NOTES
TMP-3	TEMPORARY TRAFFIC CONTROL PHASING
TMP-4	I-40 WESTBOUND ROAD CLOSURE OVERVIEW
TMP-5	I-40 EASTBOUND ROAD CLOSURE OVERVIEW
TMP-6	US 25 NB & SB TO I-40 WB DETOUR ROUTE
TMP-7	NC 191 NB & SB TO I-40 WB DETOUR ROUTE
TMP-8	NC 191 NB TO I-40 EB DETOUR ROUTE
TMP-9	NC 191 SB TO I-40 EB DETOUR ROUTE
TMP-10	HOMINY CREEK ROAD CLOSURE
TMP-11	FRENCH BROAD RIVER PEDESTRIAL TRAIL CLOSURE FARM TRAIL ROAD CLOSURE
TMP-12	FRENCH BROAD RIVER WARNING SIGN LOCATIONS

MANAGEMENT STRATEGIES

THE INTENT OF THIS PLAN IS TO PERFORM BRIDGE DECK AND APPROACH ROADWAY WORK ACTIVITIES DURING PERIODS OF ROAD CLOSURE, INCLUDING BUT NOT LIMITED TO FINE MILLING, DECK SCARIFICATION, HYDRO-DEMOLITION, LMC-VES DECK OVERLAY, BRIDGE EXPANSION JOINTS AND APPROACH RESURFACING.

NIGHTLY LANE CLOSURES ARE PROVIDED TO SUPPORT SUBSTRUCTURE REPAIR ACTIVITIES, INCLUDING WORKER INGRESS/EGRESS AND MATERIAL HANDLING.

ALL GUARDRAIL, INCLUDING BRIDGE MOUNTED THRIE BEAM GUARDRAIL, SHALL BE IN PLACE AND TRAFFIC READY PRIOR TO THE END OF ANY WEEKEND OR LANE CLOSURE PERIOD.

ALL SUBSTRUCTURE REPAIR WORK FOR THE SPANS AND BENTS ADJACENT TO THE FRENCH BROAD RIVER GREENWAY AND BILTMORE FARM TRAIL SHALL BE PERFORMED DURING TEMPORARY NIGHTLY CLOSURE PERIODS. PRIOR TO RETURNING TO NORMAL TRAFFIC, THE CONTRACTOR SHALL ENSURE THE CONDITION OF THE BRIDGE SPANS AND ADJACENT BENTS TO ALLOW SAFE USE OF THE GREENWAY AND FARM TRAIL.

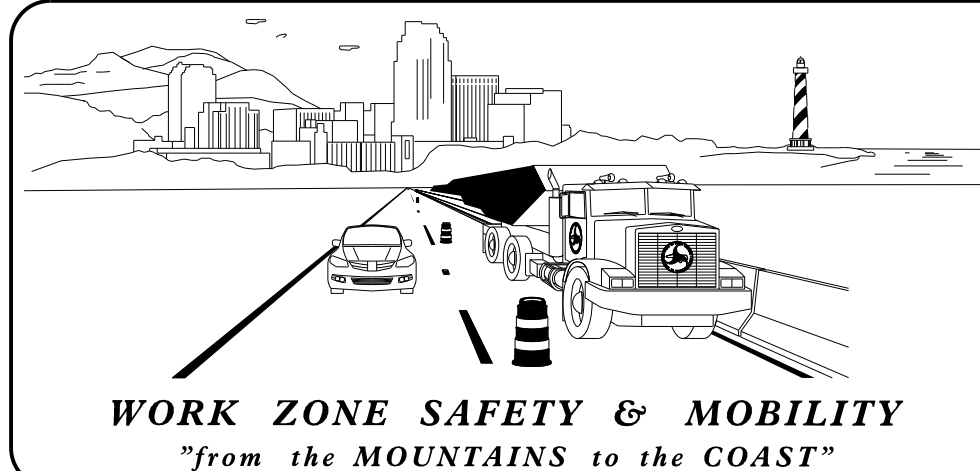
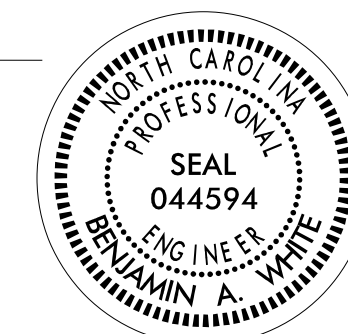
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

APPROVED: 

DATE: 8/5/2022



SEAL



PLANS PREPARED BY:

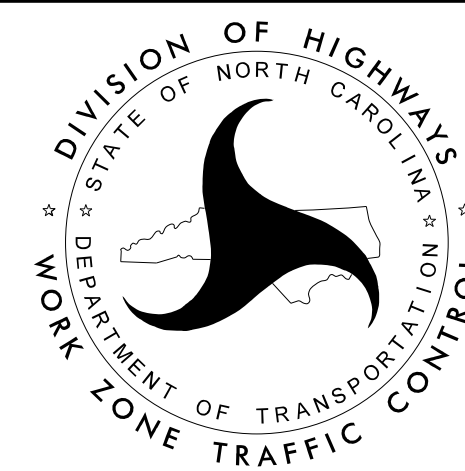
RICK NELSON, PE
PROJECT ENGINEER

BENJAMIN A. WHITE, PE
PROJECT DESIGN ENGINEER

NCDOT CONTACTS:

ZACHARY CLARK, PE
PROJECT ENGINEER

KARMEN DAIS, PE
PROJECT DESIGN ENGINEER



8/5/2022 pw:\gfn\pw.bentley.com\gfn\pw-0\Documents\Projects\67945\5-Work\King\Task 005 - I-5889B Rehab\Traffic Control\I-5889B_TMP01.dgn User:bwwhite

TIP PROJECT: I-5889B

ROADWAY STANDARD DRAWINGS

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

STD. NO.	TITLE
1101.01	WORK ZONE WARNING SIGNS
1101.02	TEMPORARY LANE CLOSURES
1101.03	TEMPORARY ROAD CLOSURES
1101.04	TEMPORARY SHOULDER CLOSURES
1101.11	TRAFFIC CONTROL DESIGN TABLES
1110.01	STATIONARY WORK ZONE SIGNS
1110.02	PORTABLE WORK ZONE SIGNS
1115.01	FLASHING ARROW BOARDS
1130.01	DRUMS
1145.01	BARRICADES
1165.01	TRUCK MOUNTED ATTENUATOR
1205.01	PAVEMENT MARKINGS - LINE TYPES AND OFFSETS
1205.02	PAVEMENT MARKINGS - TWO LANE AND MULTILANE ROADWAYS
1205.03	PAVEMENT MARKINGS - EXITS AND ENTRANCE RAMP
1205.08	PAVEMENT MARKINGS - SYMBOLS AND WORD MESSAGES

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
- PORTABLE

PAVEMENT MARKINGS

- EXISTING LINES
- TEMPORARY LINES

TRAFFIC CONTROL DEVICES

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

TEMPORARY SIGNING

- PORTABLE SIGN
- STATIONARY SIGN
- STATIONARY OR PORTABLE SIGN

PAVEMENT MARKERS

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

PAVEMENT MARKING SYMBOLS

- PAVEMENT MARKING SYMBOLS

7/25/2022 pw:\gfn\pw.bentley.com\gfn\pw-0\Documents\Projects\67945\5-Working\Task 005 - I-5589B Rehab\Traffic Control\I-5589B_TMP1A.dgn User:bwwhite

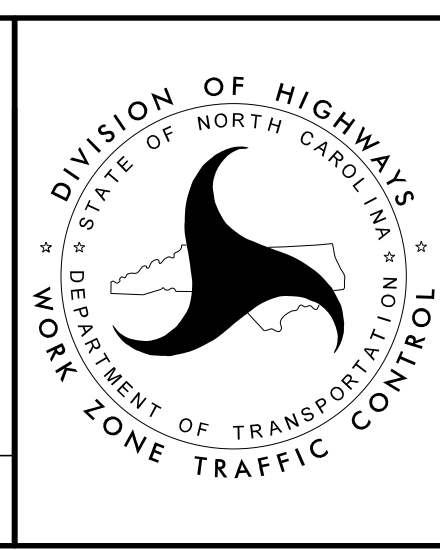


APPROVED: DocuSigned by: Benjamin A. White 68F770221617443

DATE: 8/5/2022

SEAL

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED



ROADWAY STANDARD DRAWINGS & LEGEND

GENERAL NOTES

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

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

TIME RESTRICTIONS

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

ROAD NAME	DAY AND TIME RESTRICTIONS
I-40 (MAINLINE, RAMPS & LOOPS) US 74	MONDAY THRU SUNDAY 6:00 A.M. TO 8:00 P.M.

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

ROAD NAME
I-40 (MAINLINE, RAMPS & LOOPS) US 74

HOLIDAY

- FOR ANY UNEXPECTED OCCURRENCE THAT CREATES UNUSUALLY HIGH TRAFFIC VOLUMES, AS DIRECTED BY THE ENGINEER.
- FOR NEW YEAR'S, BETWEEN THE HOURS OF 6:00 A.M. DECEMBER 31st TO 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.
- FOR EASTER, BETWEEN THE HOURS OF 6:00 A.M. THURSDAY AND 8:00 P.M. MONDAY.
- FOR MEMORIAL DAY, BETWEEN THE HOURS OF 6:00 A.M. FRIDAY TO 8:00 P.M. TUESDAY.
- 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.

- FOR LABOR DAY, BETWEEN THE HOURS OF 6:00 A.M. FRIDAY AND 8:00 P.M. TUESDAY.
- FOR THANKSGIVING DAY, BETWEEN THE HOURS OF 6:00 A.M. TUESDAY TO 8:00 P.M. MONDAY.
- 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.
- FOR WEEKENDS DURING THE MONTH OF OCTOBER, BETWEEN THE HOURS OF 6:00 A.M. FRIDAY TO 8:00 P.M. MONDAY.

C) DO NOT CLOSE ROADS AS FOLLOWS:

ROAD NAME	DAY AND TIME RESTRICTIONS
I-40 RAMPS & LOOPS	MONDAY 6:00 A.M. TO FRIDAY 8:00 P.M.
HOMINY CREEK RD FARM TRAIL FRENCH BROAD RIVER GREENWAY	MONDAY THRU SUNDAY 6:00 A.M. TO 8:00 P.M.

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.

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.

- G) WHEN PERSONNEL AND/OR EQUIPMENT ARE WORKING WITHIN A LANE OF TRAVEL OF AN UNDIVIDED OR DIVIDED FACILITY, CLOSE THE LANE ACCORDING TO THE TRAFFIC CONTROL PLANS, ROADWAY STANDARD DRAWINGS, OR AS DIRECTED BY THE ENGINEER. CONDUCT THE WORK SO THAT ALL PERSONNEL AND/OR EQUIPMENT REMAIN WITHIN THE CLOSED TRAVEL LANE.

- H) DO NOT WORK SIMULTANEOUSLY WITHIN 15 FT ON BOTH SIDES OF AN OPEN TRAVELWAY, RAMP, OR LOOP WITHIN THE SAME LOCATION UNLESS PROTECTED WITH GUARDRAIL OR BARRIER.

PAVEMENT EDGE DROP OFF REQUIREMENTS

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

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

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

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

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

TRAFFIC PATTERN ALTERATIONS

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

SIGNING

- L) INSTALL ADVANCE WORK ZONE WARNING SIGNS WHEN WORK IS WITHIN 40 FT FROM THE EDGE OF TRAVEL LANE AND NO MORE THAN THREE (3) DAYS PRIOR TO THE BEGINNING OF CONSTRUCTION.

- M) PROVIDE SIGNING AND DEVICES REQUIRED TO CLOSE THE ROAD ACCORDING TO THE ROADWAY STANDARD DRAWINGS AND TRAFFIC CONTROL PLANS.

PROVIDE SIGNING REQUIRED FOR THE OFF-SITE DETOUR ROUTE AS SHOWN IN THE TRAFFIC CONTROL PLANS.

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

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

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

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

TRAFFIC CONTROL DEVICES

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

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

PAVEMENT MARKINGS AND MARKERS

- S) 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.

- T) TIE PROPOSED PAVEMENT MARKING LINES TO EXISTING PAVEMENT MARKING LINES.

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

MISCELLANEOUS

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

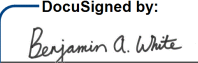
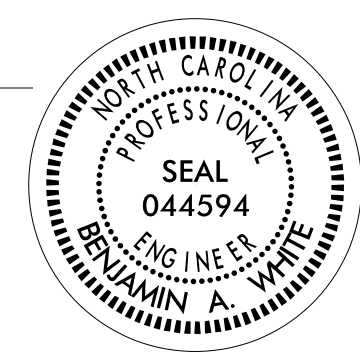
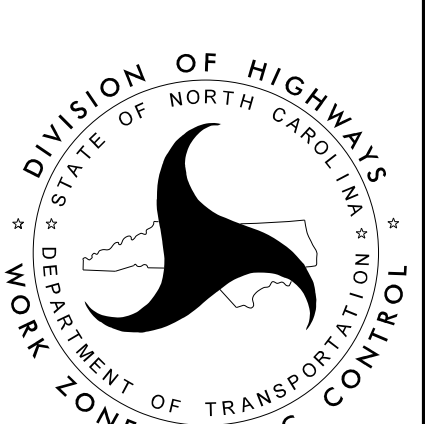
- W) IN THE EVENT A TIE-IN CANNOT BE MADE IN ONE DAY'S TIME, BRING THE TIE-IN AREA TO AN APPROPRIATE ROADWAY ELEVATION AS DETERMINED BY THE ENGINEER. PLACE BLACK ON ORANGE "LOOSE GRAVEL" SIGNS (W8-7) AND BLACK ON ORANGE "PAVEMENT ENDS" SIGNS (W8-3) AND RESPECTIVELY IN ADVANCE OF THE UNEVEN AREAS. USE DRUMS TO DELINEATE THE EDGE OF ROADWAY ALONG UNPAVED AREAS.

LOCAL NOTES

PROVIDE PEDESTRIAN PROTECTION ENCLOSURE (SEE SPECIAL PROVISIONS) WHILE WORK IS OCCURRING OVER FRENCH BROAD RIVER GREENWAY.

NOTIFY REGIONAL OR STATE TRAFFIC OPERATIONS PRIOR TO ROAD CLOSURES FOR DMS SIGN OPERATIONS.

USE ADA COMPLIANT BARRICADES TO CLOSE ANY PEDESTRIAN FACILITIES.

<p>APPROVED:  DATE: 8/5/2022</p>	<p>SEAL</p> 		<h3>GENERAL & LOCAL NOTES</h3>
<p>DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED</p>			



8/5/2022
pw:\gfn\pw-bentley.com\gfn\Projects\67945\5-Working\Task_005 - I-5889B Rehab\Traffic Control\I-5889B_TMP1B.dgn
User: bwhite

PHASING NOTES

NOTE: EITHER EASTBOUND OR WESTBOUND CLOSURE CAN BE COMPLETED FIRST, BUT MAY NOT BE COMPLETED SIMULTANEOUSLY.

PHASE I - I-40 WESTBOUND CLOSURE

CLOSE AND DETOUR I-40 WESTBOUND OVER THE PERIOD OF THREE (3) SEPARATE WEEKENDS BETWEEN THE HOURS OF 8:00 P.M. FRIDAY THRU 6:00 A.M. THE FOLLOWING MONDAY.

USE EXISTING DMS SIGN AND CHANGEABLE MESSAGE SIGNS TO ALERT THRU TRAFFIC OF DETOUR ROUTE ALONG I-240 WESTBOUND. SEE SHEET TMP-4 FOR MORE DETAILS.

CLOSE I-40 WESTBOUND AT US 25 INTERCHANGE USING ROADWAY STANDARD DRAWING 1101.03 SHEET 7 OF 9.

USE CHANGEABLE MESSAGE SIGNS FOR NORTHBOUND AND SOUTHBOUND US 25 TO ALERT TRAFFIC OF DETOUR ROUTE ALONG I-40 EASTBOUND TO I-240 WESTBOUND. SEE SHEET TMP-6 FOR MORE DETAILS.

USE CHANGEABLE MESSAGE SIGNS FOR NORTHBOUND AND SOUTHBOUND NC 191 TO ALERT TRAFFIC OF DETOUR ROUTE ALONG I-240 WESTBOUND. SEE SHEET TMP-7 FOR MORE DETAILS.

PERFORM BRIDGE DECK AND APPROACH ROADWAY WORK TO BRIDGES 100339, 100347 AND 100356. WHEN HYDRO-DEMOLITION IS INITIATED ON A BRIDGE DECK, COMPLETE THE REMAINING DECK WORK REQUIRED TO PROVIDE THE FINAL RIDING SURFACE PRIOR TO RETURNING THE BRIDGE TO NORMAL TRAFFIC, INCLUDING LMC-VES OVERLAY, APPROACH ROADWAY RESURFACING AND PAVEMENT MARKINGS. COMPLETE ALL REMAINING DECK AND ROADWAY WORK, INCLUDING BRIDGE DECK JOINT REPLACEMENTS, DECK GROOVING AND FINAL GUARDRAIL AND PAVEMENT MARKINGS WITHIN THE THREE (3) WEEKEND CLOSURE PERIODS. SEE INTERMEDIATE CONTRACT TIMES AND LIQUIDATED DAMAGES.

CONTINUE WORK AS NECESSARY TO COMPLETE SUBSTRUCTURE REPAIRS USING NIGHTLY LANE CLOSURES BETWEEN THE HOURS OF 8:00 P.M. AND 6:00 A.M. THE FOLLOWING MORNING. INSTALL WORK ZONE ADVANCED WARNING SIGNS AS APPLICABLE USING ROADWAY STANDARD DRAWING 1101.01 SHEET 1 OF 3. INSTALL LANE CLOSURES USING ROADWAY STANDARD DRAWING 1101.02 SHEET 4 OF 14.

PLACE BARRICADES AND CLOSE HOMINY CREEK ROAD TO VEHICLE AND PEDESTRIAN TRAFFIC BETWEEN THE HOURS OF 8:00 P.M. AND 6:00 A.M. THE FOLLOWING MORNING. COMPLETE NECESSARY WORK ON SUBSTRUCTURE OF BRIDGE 100347. SEE SHEET TMP-10 FOR MORE DETAILS.

PLACE BARRICADES AND CLOSE FRENCH BROAD RIVER GREENWAY TO PEDESTRIAN TRAFFIC BETWEEN THE HOURS OF 8:00 P.M. AND 6:00 A.M. THE FOLLOWING MORNING. COMPLETE NECESSARY WORK ON SUBSTRUCTURE OF BRIDGE 100356. SEE SHEET TMP-11 FOR MORE DETAILS.

PLACE BARRICADES AND CLOSE FARM TRAIL TO TRAFFIC BETWEEN THE HOURS OF 8:00 P.M. AND 6:00 A.M. THE FOLLOWING MORNING. COMPLETE NECESSARY WORK ON SUBSTRUCTURE OF BRIDGE 100356.

NOTE: AT END OF WEEKEND CLOSURE AND LANE CLOSURE PERIODS, REPLACE MARKINGS AND RETURN TRAFFIC TO THE CURRENT TRAFFIC PATTERN UNLESS OTHERWISE DIRECTED BY THE ENGINEER. COMPLETE ANY PROPOSED MILLING AND PAVING SUCH THAT PONDING OF WATER WILL NOT OCCUR IN ANY TRAVEL LANE. ALL GUARDRAIL, INCLUDING BRIDGE MOUNTED THRIE BEAM GUARDRAIL, SHALL BE INSTALLED OR RESET BEFORE RE-OPENING ROADWAY TO TRAFFIC.

PHASE II - I-40 EASTBOUND CLOSURE

CLOSE AND DETOUR I-40 EASTBOUND OVER THE PERIOD OF THREE (3) SEPARATE WEEKENDS BETWEEN THE HOURS OF 8:00 P.M. FRIDAY THRU 6:00 A.M. THE FOLLOWING MONDAY.

USE EXISTING DMS SIGN AND CHANGEABLE MESSAGE SIGNS TO ALERT THRU TRAFFIC OF DETOUR ROUTE ALONG I-240 EASTBOUND. SEE SHEET TMP-5 FOR MORE DETAILS.

CLOSE I-40 EASTBOUND AT I-240/I-26 INTERCHANGE USING ROADWAY STANDARD DRAWING 1101.03 SHEET 7 OF 9.

USE CHANGEABLE MESSAGE SIGNS FOR NORTHBOUND AND SOUTHBOUND NC 191 TO ALERT TRAFFIC OF DETOUR ROUTE ALONG I-240 EASTBOUND. SEE SHEETS TMP-8 AND TMP-9 FOR MORE DETAILS.

PERFORM BRIDGE DECK AND APPROACH ROADWAY WORK TO BRIDGES 100334, 100344 AND 100352. WHEN HYDRO-DEMOLITION IS INITIATED ON A BRIDGE DECK, COMPLETE THE REMAINING DECK WORK REQUIRED TO PROVIDE THE FINAL RIDING SURFACE PRIOR TO RETURNING THE BRIDGE TO NORMAL TRAFFIC, INCLUDING LMC-VES OVERLAY, APPROACH ROADWAY RESURFACING AND PAVEMENT MARKINGS. COMPLETE ALL REMAINING DECK AND ROADWAY WORK, INCLUDING BRIDGE DECK JOINT REPLACEMENTS, DECK GROOVING AND FINAL GUARDRAIL AND PAVEMENT MARKINGS WITHIN THE THREE (3) WEEKEND CLOSURE PERIODS. SEE INTERMEDIATE CONTRACT TIMES AND LIQUIDATED DAMAGES.

CONTINUE WORK AS NECESSARY TO COMPLETE SUBSTRUCTURE REPAIRS USING NIGHTLY LANE CLOSURES BETWEEN THE HOURS OF 8:00 P.M. AND 6:00 A.M. THE FOLLOWING MORNING. INSTALL WORK ZONE ADVANCED WARNING SIGNS AS APPLICABLE USING ROADWAY STANDARD DRAWING 1101.01 SHEET 1 OF 3. INSTALL LANE CLOSURES USING ROADWAY STANDARD DRAWING 1101.02 SHEET 4 OF 14.

PLACE BARRICADES AND CLOSE HOMINY CREEK ROAD TO VEHICLE AND PEDESTRIAN TRAFFIC BETWEEN THE HOURS OF 8:00 P.M. AND 6:00 A.M. THE FOLLOWING MORNING. COMPLETE NECESSARY WORK ON SUBSTRUCTURE OF BRIDGE 100344. SEE SHEET TMP-10 FOR MORE DETAILS.

PLACE BARRICADES AND CLOSE FRENCH BROAD RIVER GREENWAY TO PEDESTRIAN TRAFFIC BETWEEN THE HOURS OF 8:00 P.M. AND 6:00 A.M. THE FOLLOWING MORNING. COMPLETE NECESSARY WORK ON SUBSTRUCTURE OF BRIDGE 100352. SEE SHEET TMP-11 FOR MORE DETAILS.

PLACE BARRICADES AND CLOSE FARM TRAIL TO TRAFFIC BETWEEN THE HOURS OF 8:00 P.M. AND 6:00 A.M. THE FOLLOWING MORNING. COMPLETE NECESSARY WORK ON SUBSTRUCTURE OF BRIDGE 100352.

NOTE: AT END OF WEEKEND CLOSURE AND LANE CLOSURE PERIODS, REPLACE MARKINGS AND RETURN TRAFFIC TO THE CURRENT TRAFFIC PATTERN UNLESS OTHERWISE DIRECTED BY THE ENGINEER. COMPLETE ANY PROPOSED MILLING AND PAVING SUCH THAT PONDING OF WATER WILL NOT OCCUR IN ANY TRAVEL LANE. ALL GUARDRAIL, INCLUDING BRIDGE MOUNTED THRIE BEAM GUARDRAIL, SHALL BE INSTALLED OR RESET BEFORE RE-OPENING ROADWAY TO TRAFFIC.

8/4/2022
pw:\gfnnet-pw.bentley.com\gfnnet-pw-0\Documents\Projects\67945\5-Working\Task_005 - I-5889B_Rehab\Traffic_Control\I-5889B_TMP03.dgn
User: bwhite

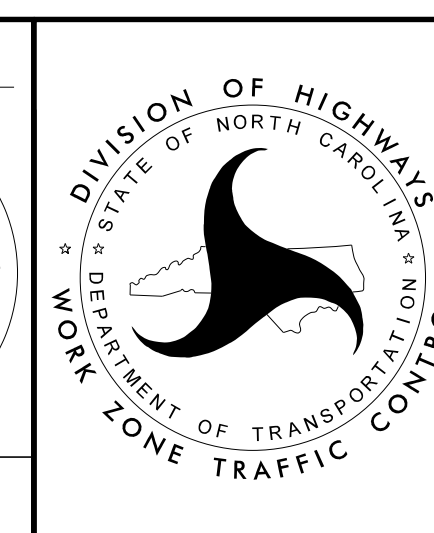


APPROVED: *Benjamin A. White*
88F770221617443

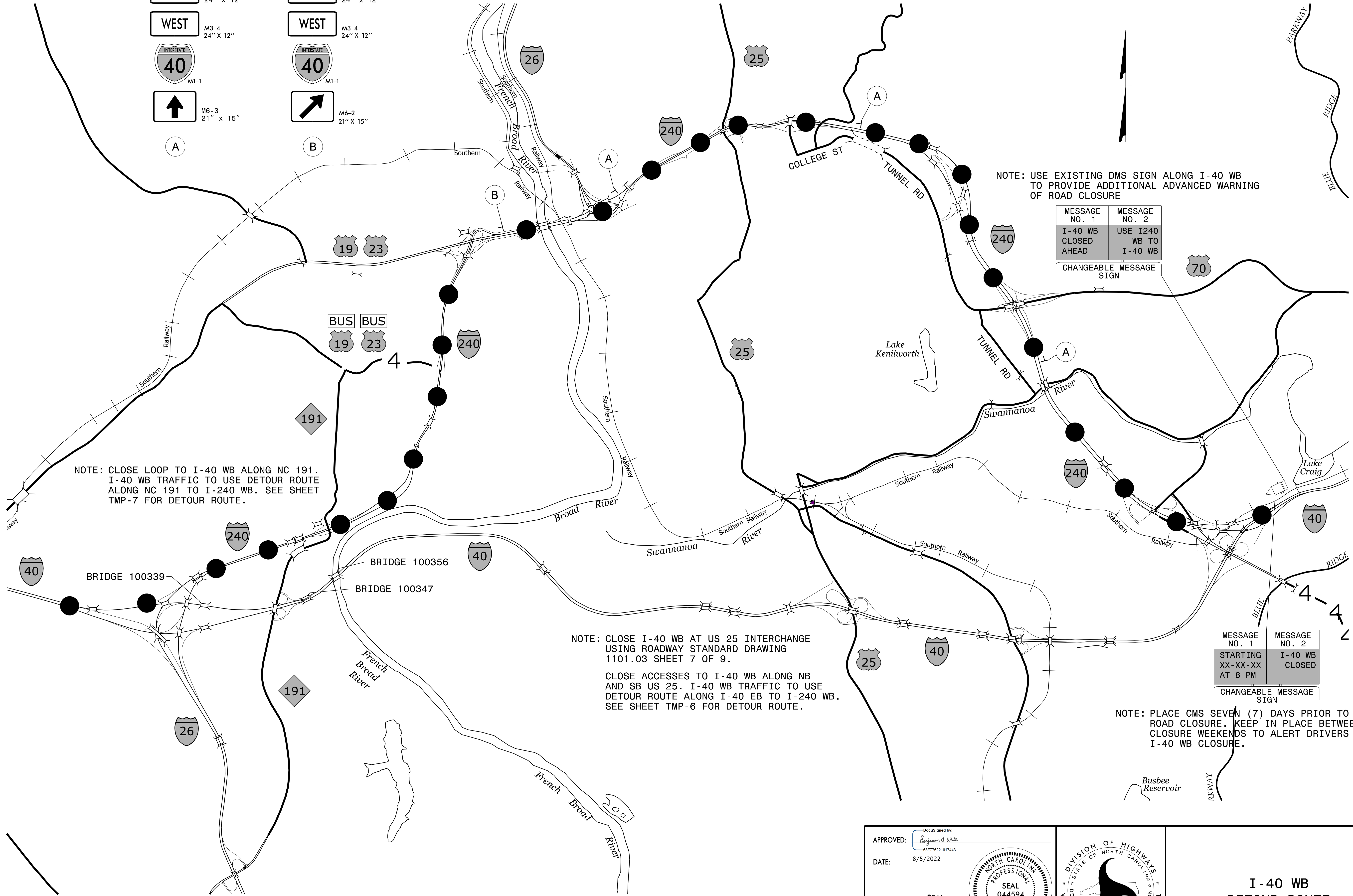
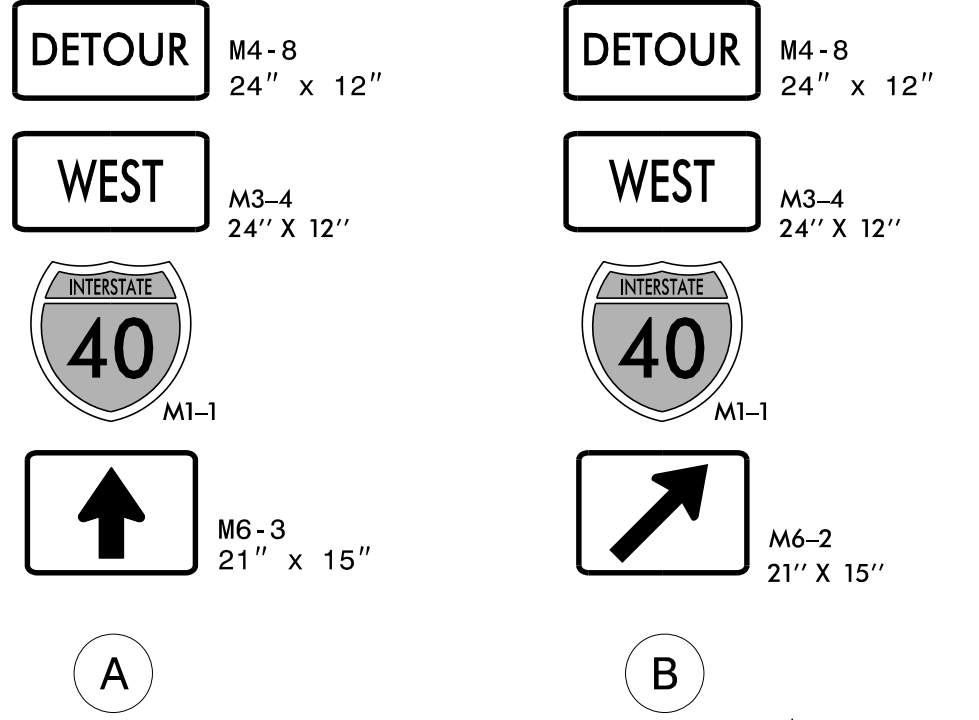
DATE: 8/5/2022

SEAL

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



PHASING NOTES



NOTE: CLOSE LOOP TO I-40 WB ALONG NC 191. I-40 WB TRAFFIC TO USE DETOUR ROUTE ALONG NC 191 TO I-240 WB. SEE SHEET TMP-7 FOR DETOUR ROUTE.

NOTE: CLOSE I-40 WB AT US 25 INTERCHANGE USING ROADWAY STANDARD DRAWING 1101.03 SHEET 7 OF 9.
CLOSE ACCESSES TO I-40 WB ALONG NB AND SB US 25. I-40 WB TRAFFIC TO USE DETOUR ROUTE ALONG I-40 EB TO I-240 WB. SEE SHEET TMP-6 FOR DETOUR ROUTE.

NOTE: USE EXISTING DMS SIGN ALONG I-40 WB TO PROVIDE ADDITIONAL ADVANCED WARNING OF ROAD CLOSURE

MESSAGE NO. 1	MESSAGE NO. 2
I-40 WB CLOSED AHEAD	USE I240 WB TO I-40 WB

CHANGEABLE MESSAGE SIGN

MESSAGE NO. 1	MESSAGE NO. 2
STARTING XX-XX-XX AT 8 PM	I-40 WB CLOSED

CHANGEABLE MESSAGE SIGN

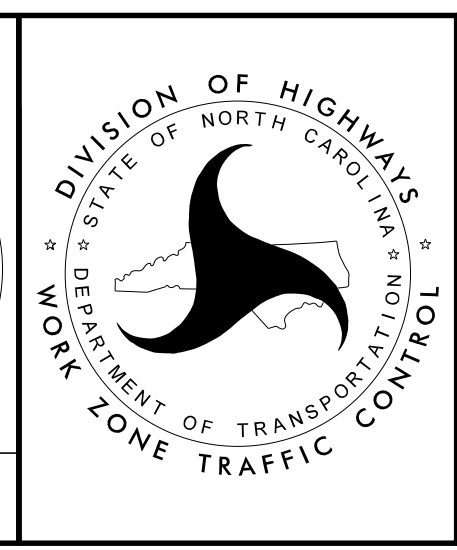
NOTE: PLACE CMS SEVEN (7) DAYS PRIOR TO FIRST ROAD CLOSURE. KEEP IN PLACE BETWEEN CLOSURE WEEKENDS TO ALERT DRIVERS TO I-40 WB CLOSURE.

8/1/2022 pw:\gfnnet-pw-bentley.com\gfnnet-pw-0\Documents\Projects\67945\5-Working\Task 005 - I-5889B Rehab\Traffic Control\I-5889B_TMP04.dgn User:bwwhite

APPROVED: *Benjamin A. White*
DATE: 8/5/2022

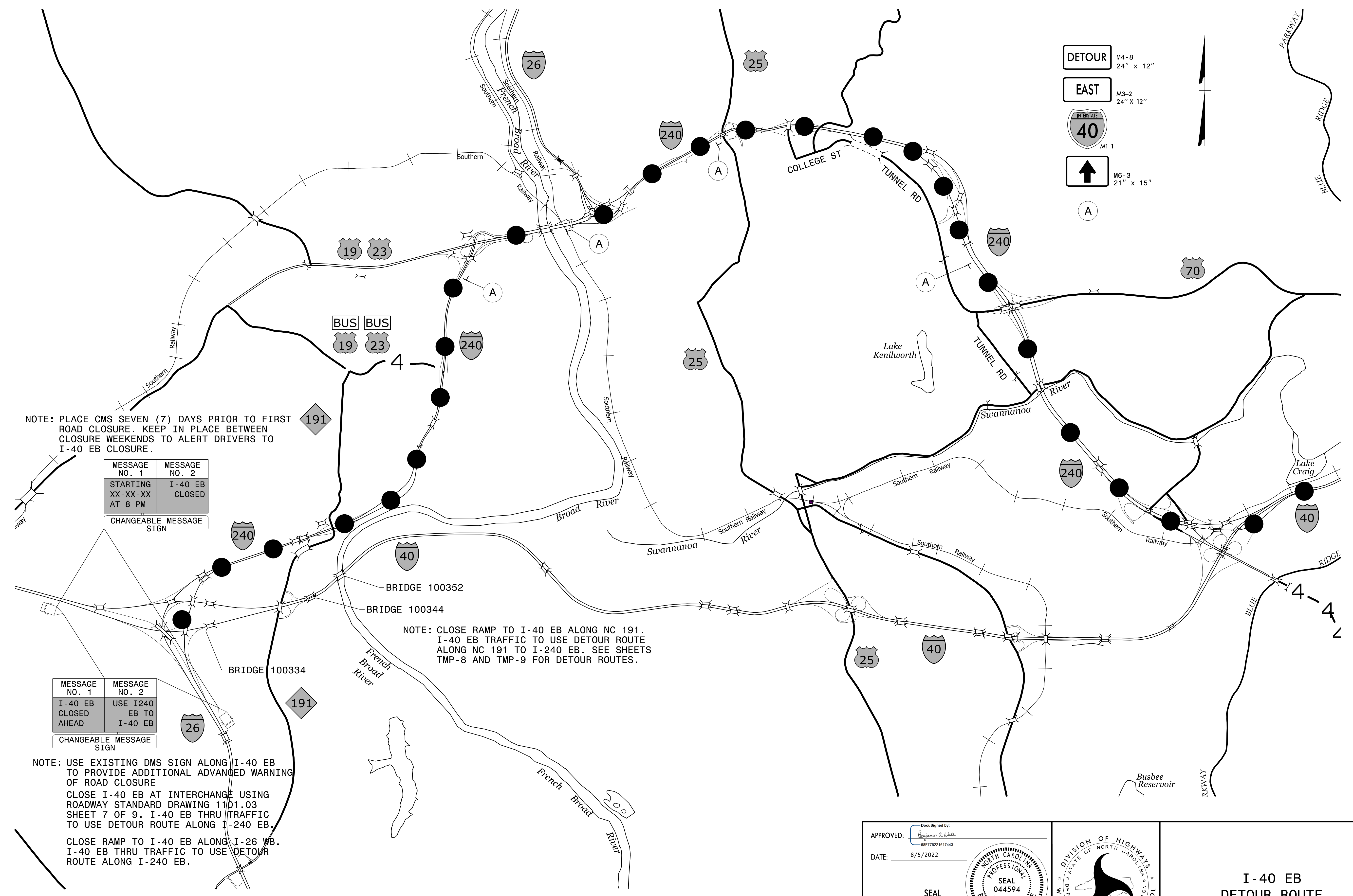
SEAL

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED



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

I-40 WB DETOUR ROUTE



NOTE: PLACE CMS SEVEN (7) DAYS PRIOR TO FIRST ROAD CLOSURE. KEEP IN PLACE BETWEEN CLOSURE WEEKENDS TO ALERT DRIVERS TO I-40 EB CLOSURE.

MESSAGE NO. 1	MESSAGE NO. 2
STARTING XX-XX-XX AT 8 PM	I-40 EB CLOSED

CHANGEABLE MESSAGE SIGN

MESSAGE NO. 1	MESSAGE NO. 2
I-40 EB CLOSED AHEAD	USE I240 EB TO I-40 EB

CHANGEABLE MESSAGE SIGN

NOTE: USE EXISTING DMS SIGN ALONG I-40 EB TO PROVIDE ADDITIONAL ADVANCED WARNING OF ROAD CLOSURE
 CLOSE I-40 EB AT INTERCHANGE USING ROADWAY STANDARD DRAWING 1101.03 SHEET 7 OF 9. I-40 EB THRU TRAFFIC TO USE DETOUR ROUTE ALONG I-240 EB.
 CLOSE RAMP TO I-40 EB ALONG I-26 WB. I-40 EB THRU TRAFFIC TO USE DETOUR ROUTE ALONG I-240 EB.

NOTE: CLOSE RAMP TO I-40 EB ALONG NC 191. I-40 EB TRAFFIC TO USE DETOUR ROUTE ALONG NC 191 TO I-240 EB. SEE SHEETS TMP-8 AND TMP-9 FOR DETOUR ROUTES.

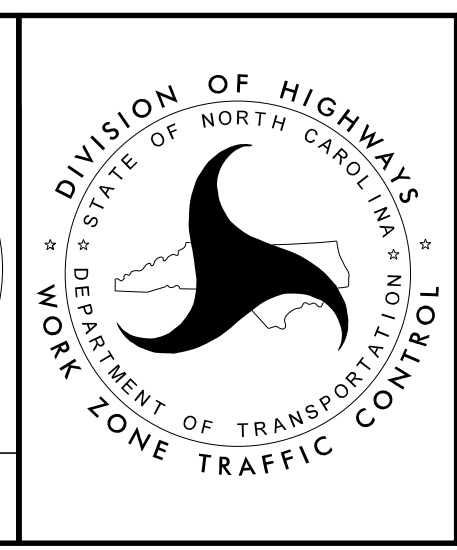
8/1/2022 pw:\gfn\pw-bentley.com\gfn\Projects\67945\5-Working\Task 005 - I-5889B Rehab\Traffic Control\I-5889B_TMP05.dgn User:rbwhite



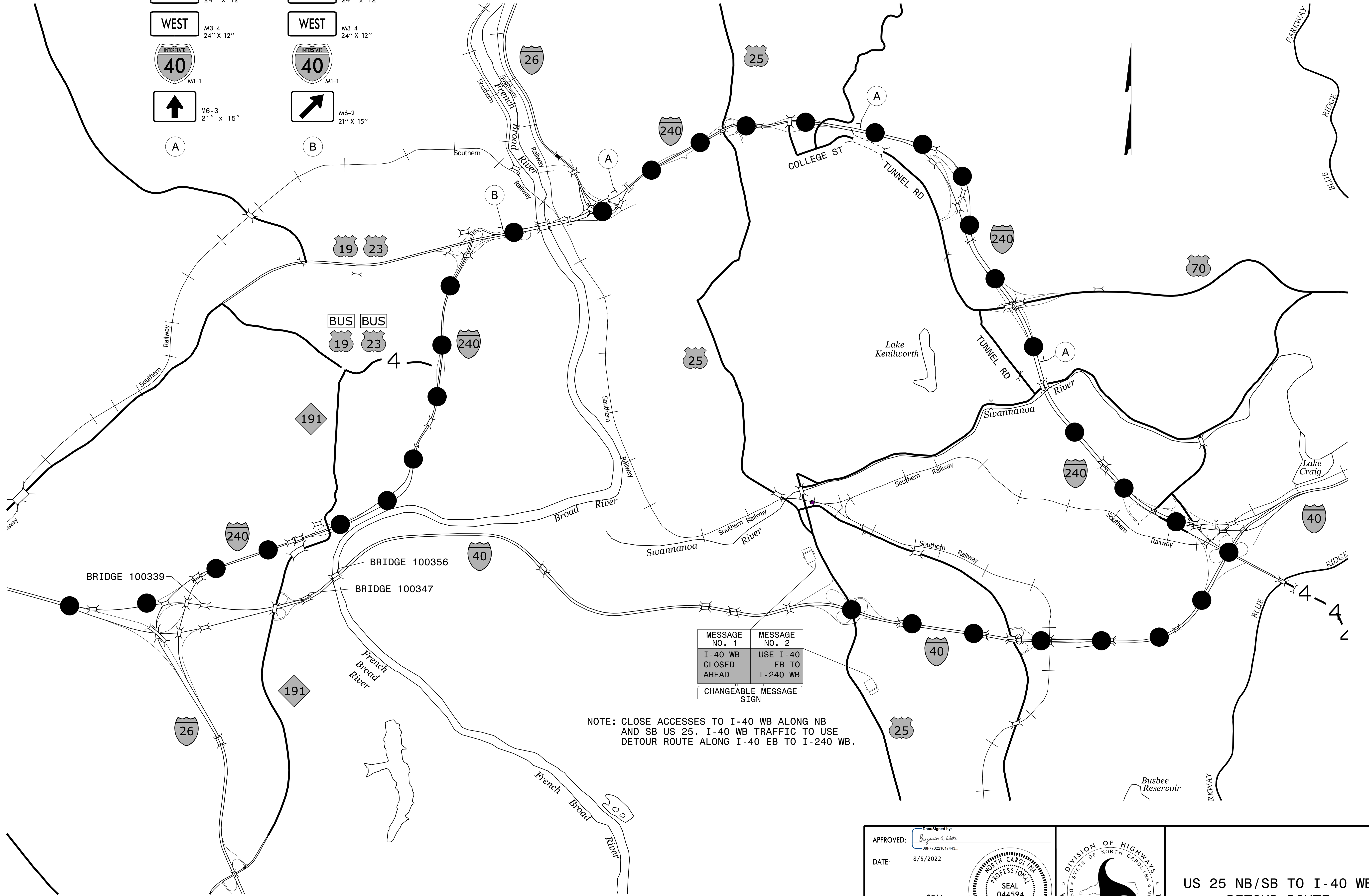
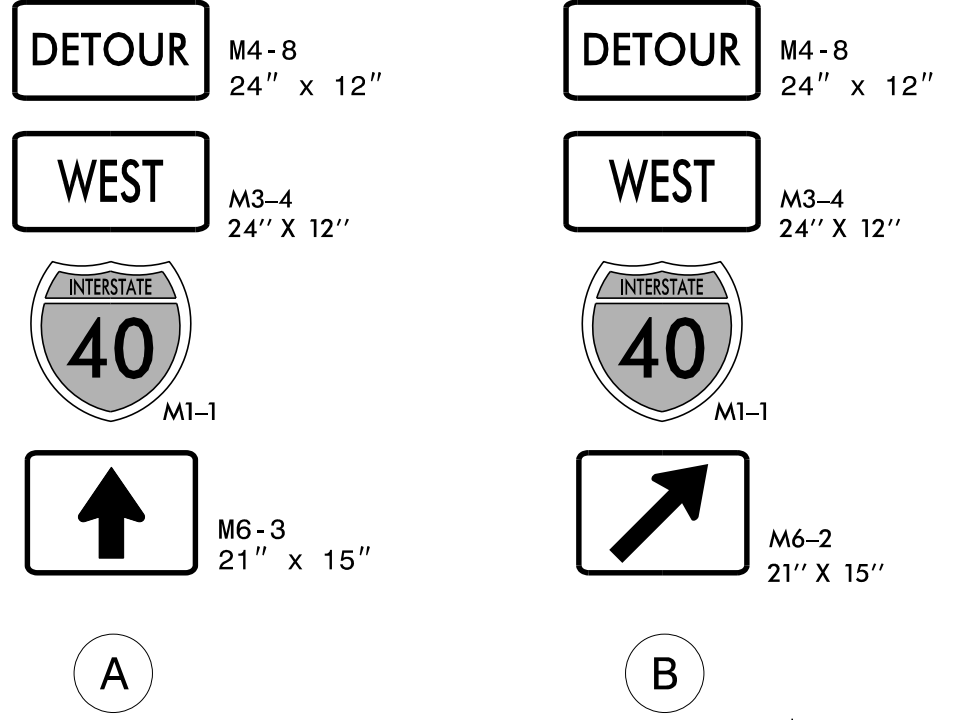
APPROVED: *Benjamin A. White*
 DATE: 8/5/2022

SEAL

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED



I-40 EB
 DETOUR ROUTE



MESSAGE NO. 1	MESSAGE NO. 2
I-40 WB CLOSED AHEAD	USE I-40 EB TO I-240 WB
CHANGEABLE MESSAGE SIGN	

NOTE: CLOSE ACCESSES TO I-40 WB ALONG NB AND SB US 25. I-40 WB TRAFFIC TO USE DETOUR ROUTE ALONG I-40 EB TO I-240 WB.

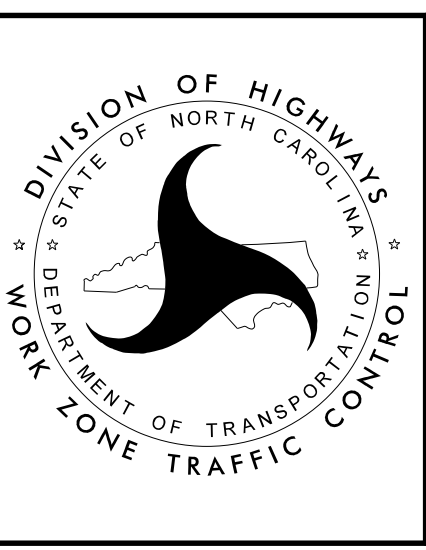
7/25/2022 pw:\gfn\pw.bentley.com\gfn\pw-0\Documents\Projects\67945\5-Working\Task_005 - I-5889B Rehab\Traffic Control\I-5889B_TMP06.dgn User:bwwhite



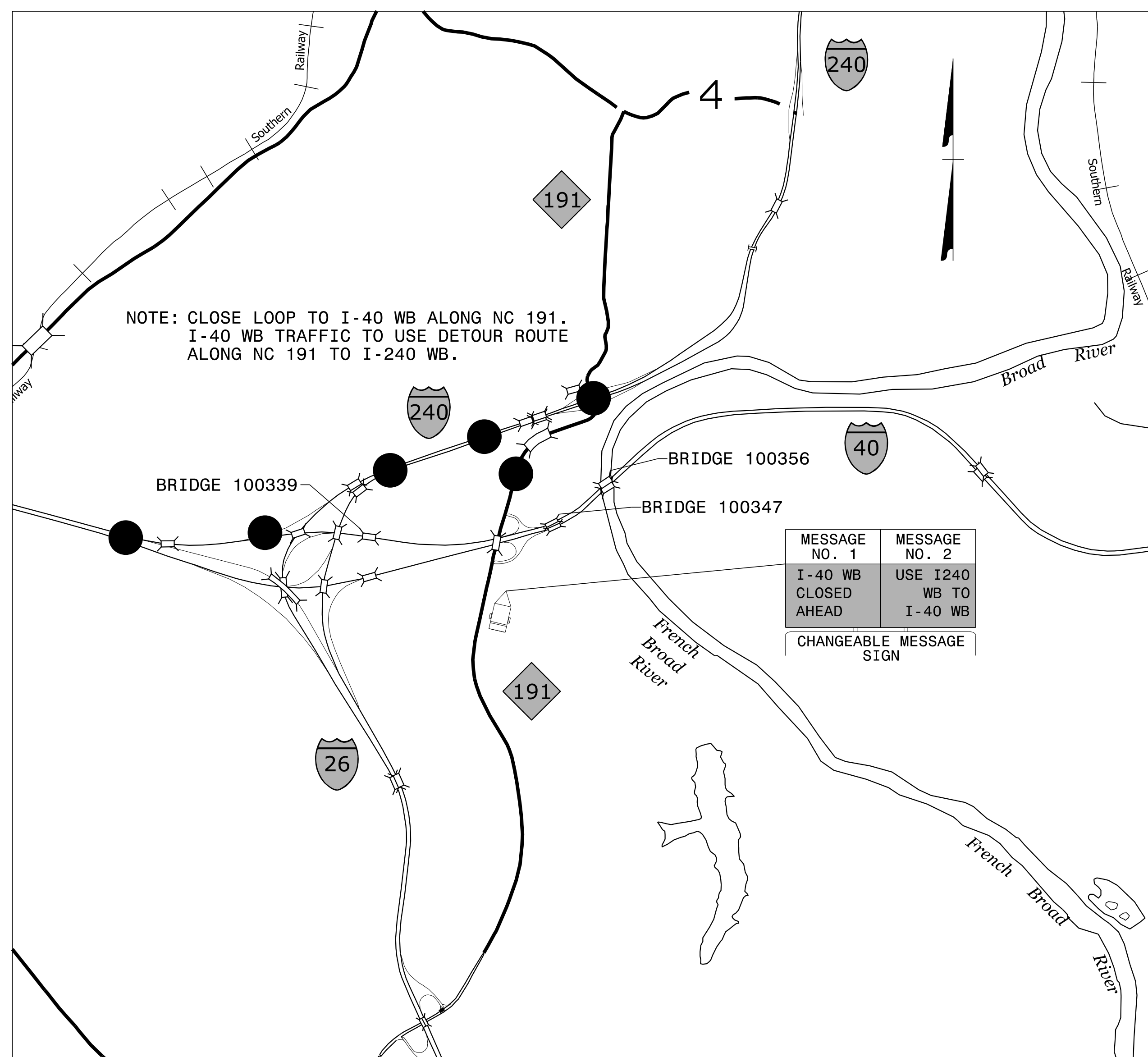
APPROVED: *Benjamin A. White*
 DATE: 8/5/2022

SEAL

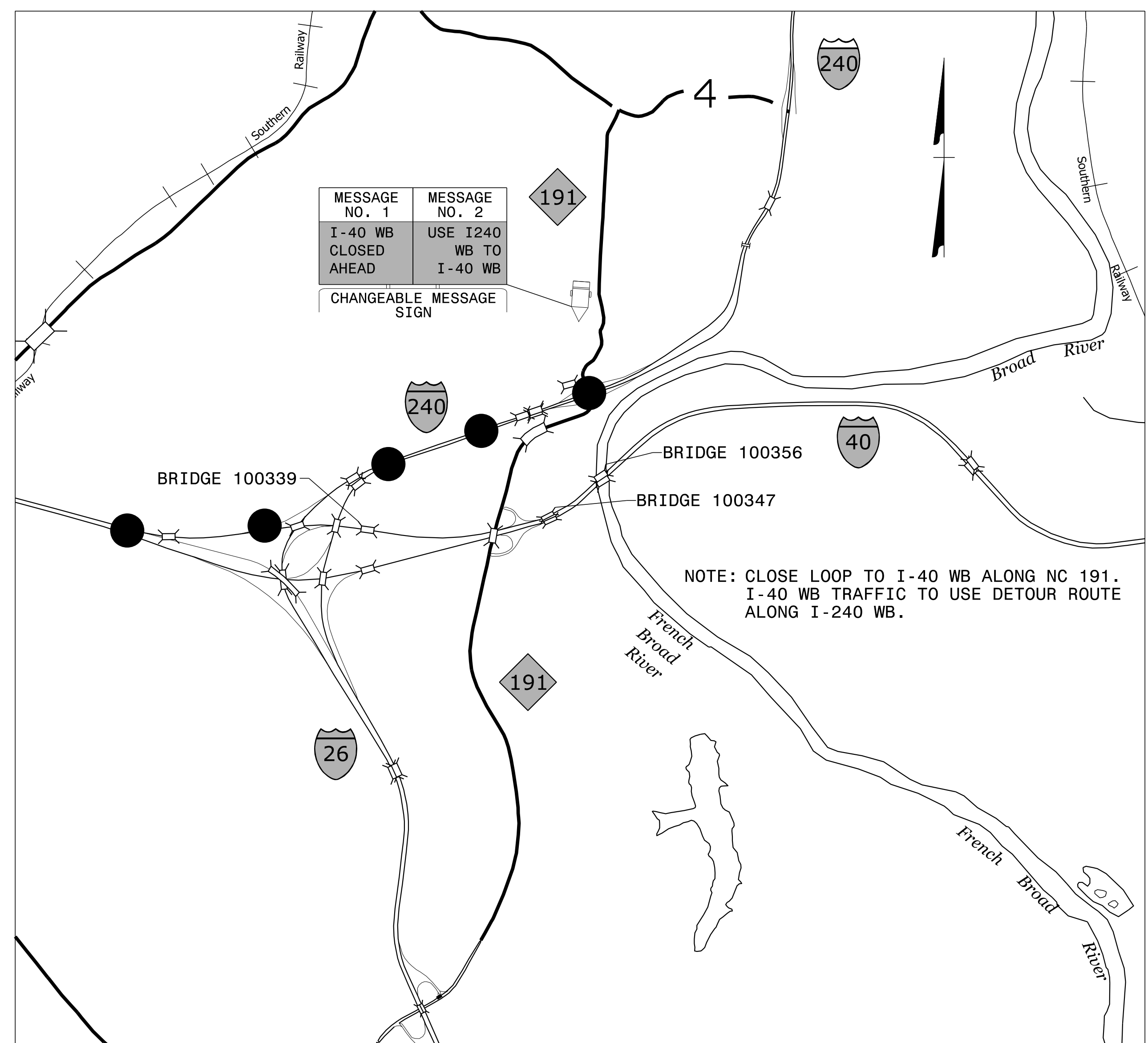
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED



US 25 NB/SB TO I-40 WB
 DETOUR ROUTE



NC 191 NB TO I-40 WB DETOUR ROUTE



NC 191 SB TO I-40 WB DETOUR ROUTE

8/1/2022
pw:\gfnnet-pw.bentley.com\gfnnet-pw-0\Documents\Projects\67945\5-Working\Task 005 - I-5889B Rehab\Traffic Control\I-5889B_TMP07.dgn
User:bwht

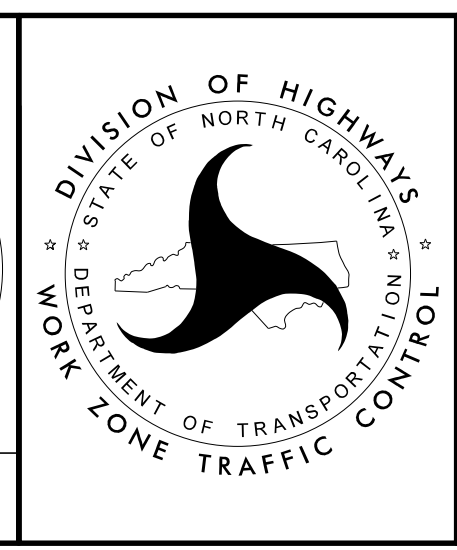


APPROVED: *Benjamin A. White*
68F770221617443

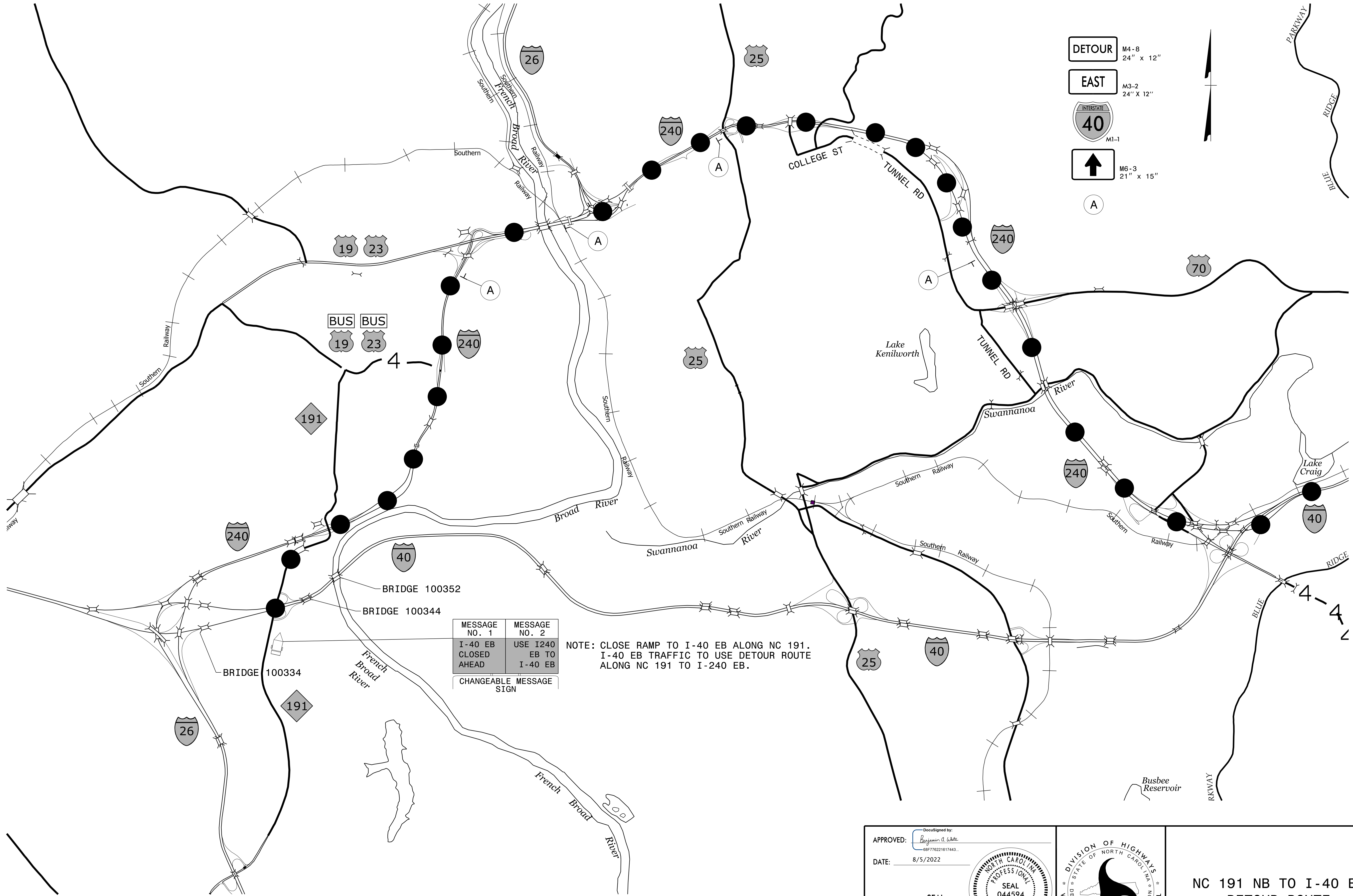
DATE: 8/5/2022

SEAL

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



NC 191 NB/SB TO I-40 WB
DETOUR ROUTE



MESSAGE NO. 1	MESSAGE NO. 2
I-40 EB CLOSED AHEAD	USE I240 EB TO I-40 EB
CHANGEABLE MESSAGE SIGN	

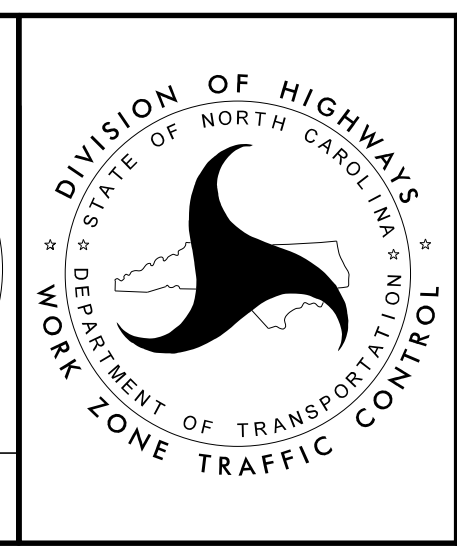
NOTE: CLOSE RAMP TO I-40 EB ALONG NC 191. I-40 EB TRAFFIC TO USE DETOUR ROUTE ALONG NC 191 TO I-240 EB.

8/1/2022 pw:\gfnnet-pw.bentley.com\gfnnet-pw-0\Documents\Projects\67945\5-Working\Task 005 - I-5889B Rehab\Traffic Control\I-5889B_TMP08.dgn User:bwwhite

APPROVED: *Benjamin A. White*
 DATE: 8/5/2022

SEAL

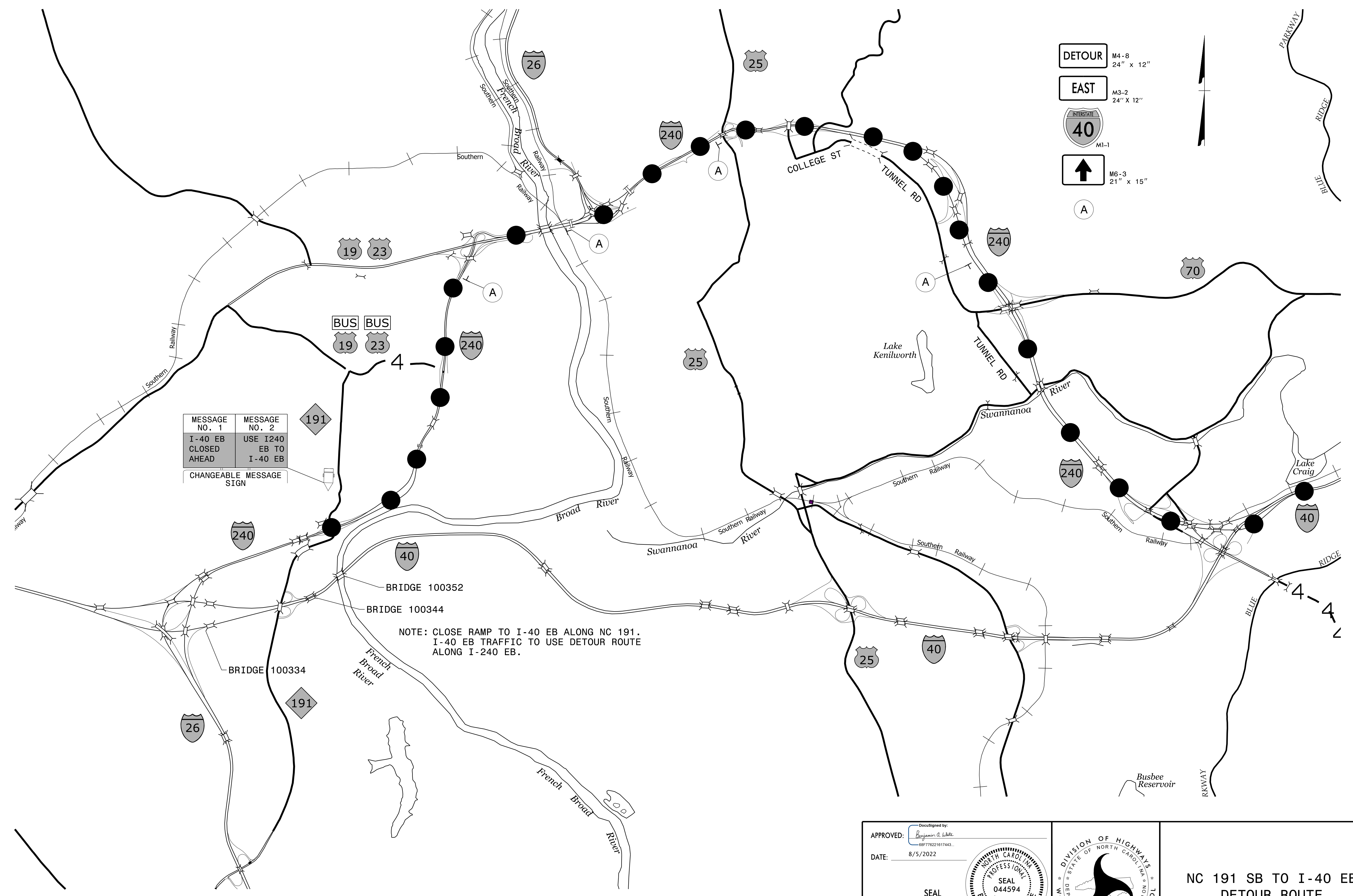
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED



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

NC 191 NB TO I-40 EB DETOUR ROUTE





MESSAGE NO. 1	MESSAGE NO. 2
I-40 EB CLOSED AHEAD	USE I240 EB TO I-40 EB

CHANGEABLE MESSAGE SIGN

NOTE: CLOSE RAMP TO I-40 EB ALONG NC 191.
I-40 EB TRAFFIC TO USE DETOUR ROUTE
ALONG I-240 EB.

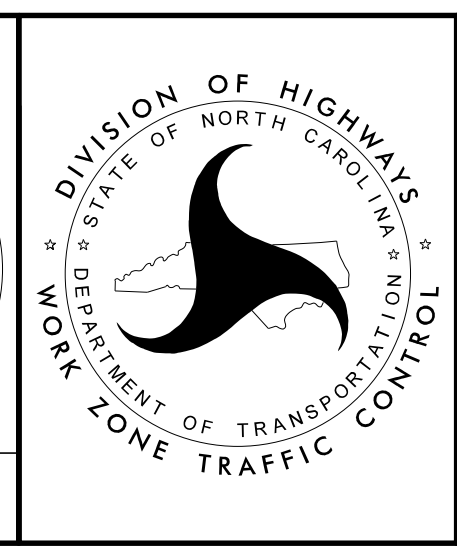
8/1/2022 pw:\gfn\pw-bentley.com\gfn\Projects\67945\5-Working\Task 005 - I-5889B Rehab\Traffic Control\I-5889B_TMP09.dgn User:bwwhite



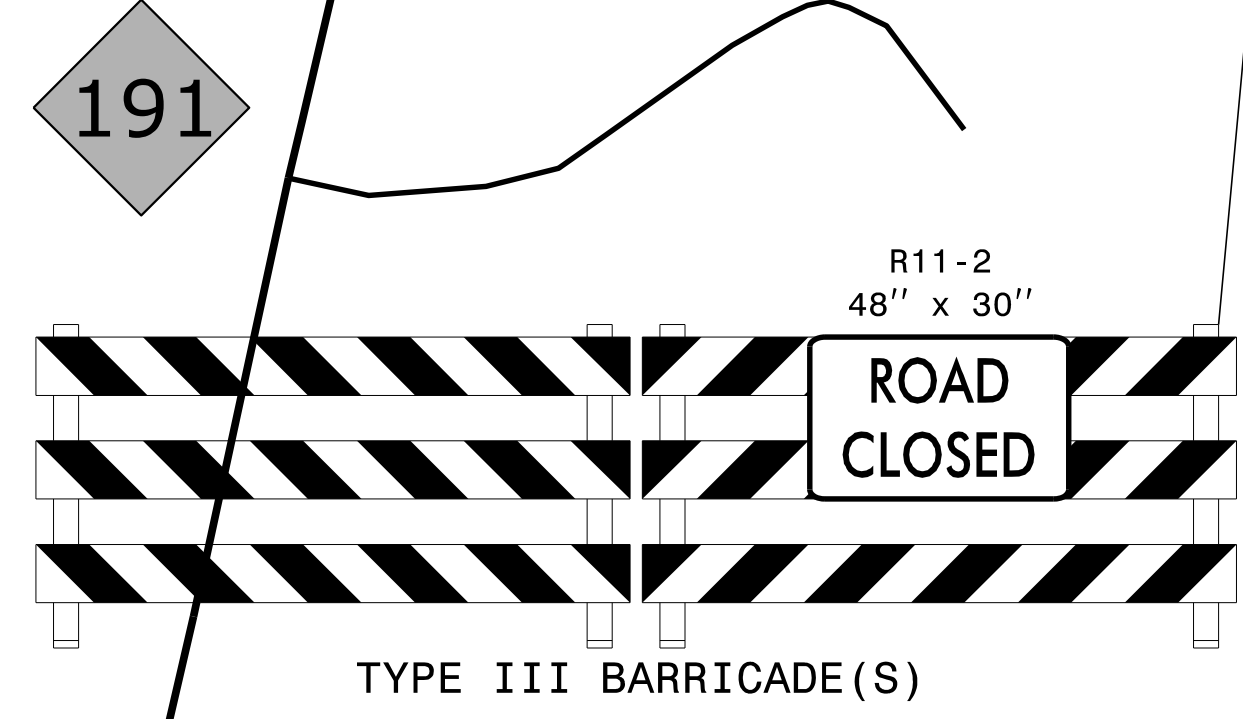
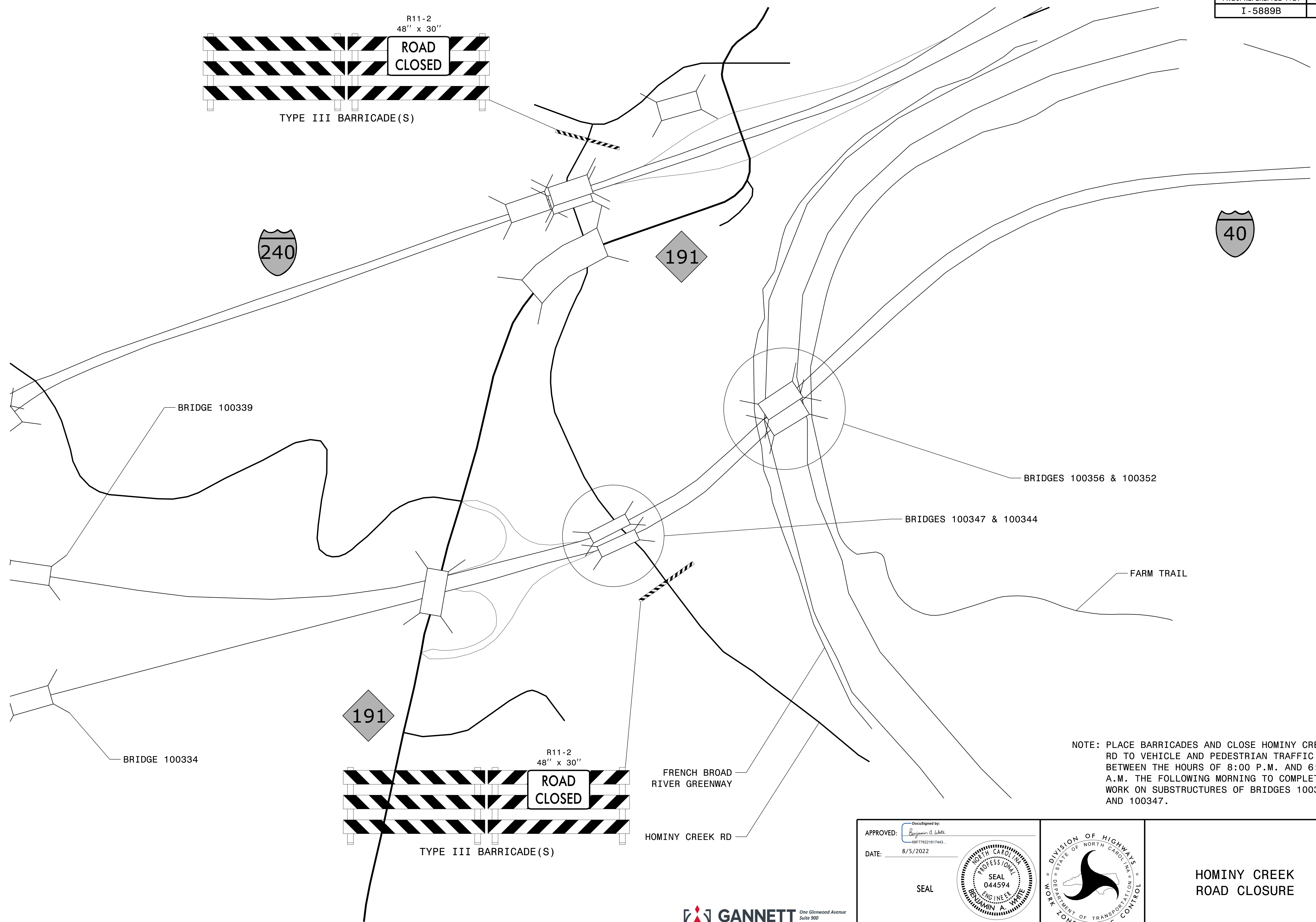
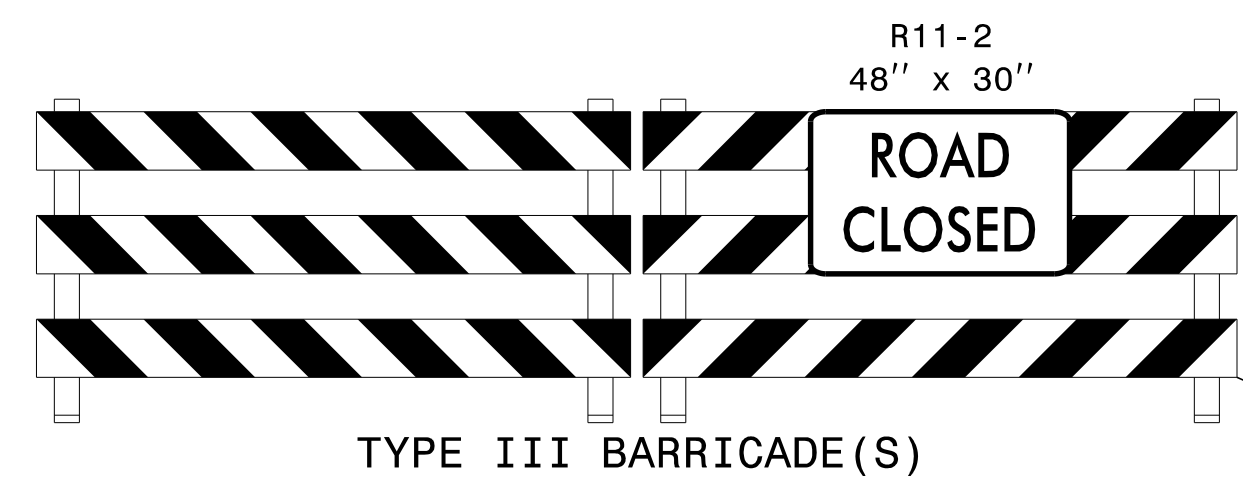
APPROVED: *Benjamin A. White*
DATE: 8/5/2022

SEAL

DOCUMENT NOT CONSIDERED FINAL
UNLESS ALL SIGNATURES COMPLETED




NC 191 SB TO I-40 EB
DETOUR ROUTE



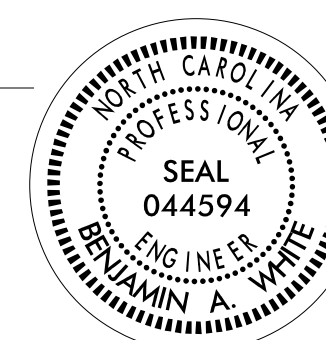
NOTE: PLACE BARRICADES AND CLOSE HOMINY CREEK RD TO VEHICLE AND PEDESTRIAN TRAFFIC BETWEEN THE HOURS OF 8:00 P.M. AND 6:00 A.M. THE FOLLOWING MORNING TO COMPLETE WORK ON SUBSTRUCTURES OF BRIDGES 100344 AND 100347.

8/4/2022
pw:\gfnnet-pw.bentley.com\gfnnet-pw-0\Documents\Projects\67945\5-Working\Task 005 - I-5889B Rehab\Traffic Control\I-5889B_TMP10.dgn
User: bwhite

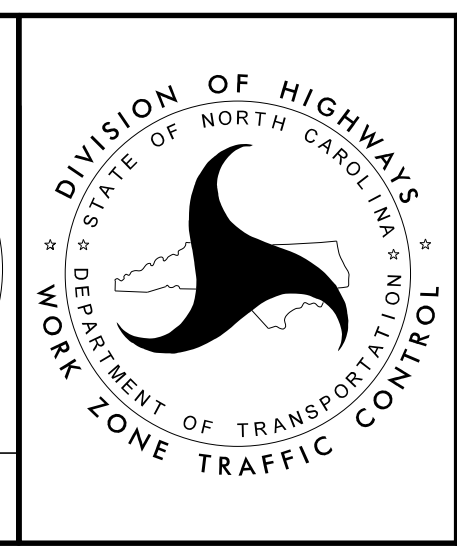


APPROVED: 
DATE: 8/5/2022

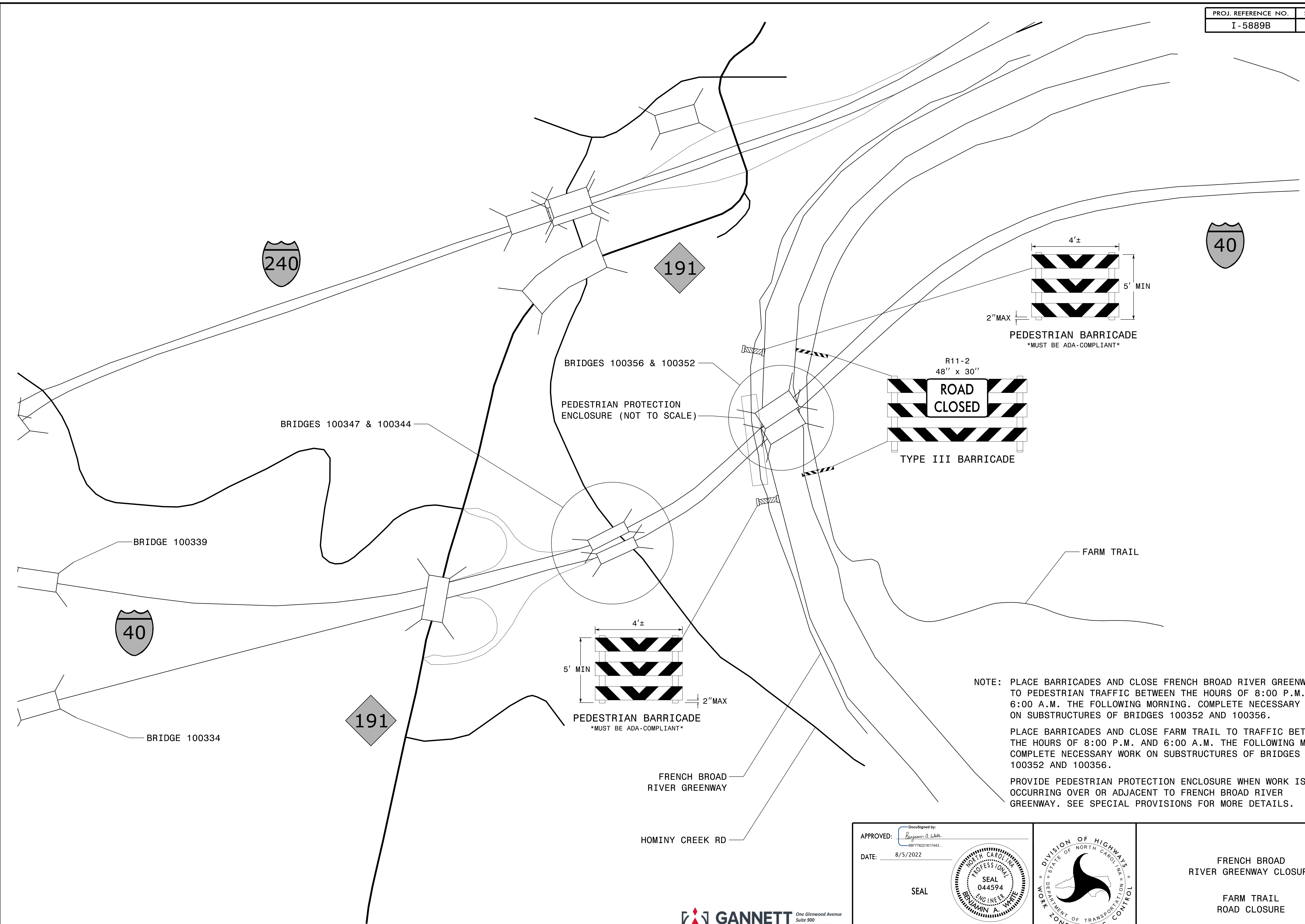
SEAL



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



**HOMINY CREEK
ROAD CLOSURE**



NOTE: PLACE BARRICADES AND CLOSE FRENCH BROAD RIVER GREENWAY TO PEDESTRIAN TRAFFIC BETWEEN THE HOURS OF 8:00 P.M. AND 6:00 A.M. THE FOLLOWING MORNING. COMPLETE NECESSARY WORK ON SUBSTRUCTURES OF BRIDGES 100352 AND 100356.

PLACE BARRICADES AND CLOSE FARM TRAIL TO TRAFFIC BETWEEN THE HOURS OF 8:00 P.M. AND 6:00 A.M. THE FOLLOWING MORNING. COMPLETE NECESSARY WORK ON SUBSTRUCTURES OF BRIDGES 100352 AND 100356.

PROVIDE PEDESTRIAN PROTECTION ENCLOSURE WHEN WORK IS OCCURRING OVER OR ADJACENT TO FRENCH BROAD RIVER GREENWAY. SEE SPECIAL PROVISIONS FOR MORE DETAILS.

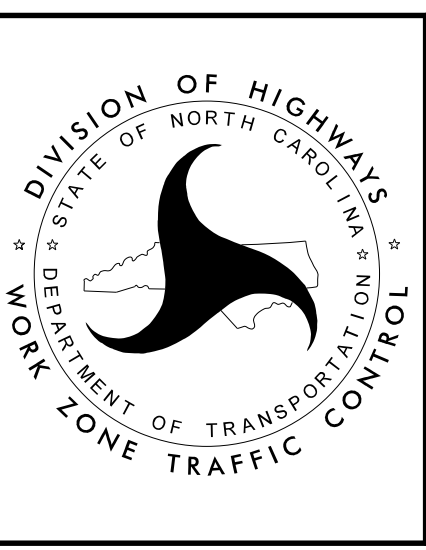
8/4/2022 pw:\gfnnet-pw.bentley.com\gfnnet-pw-0\Documents\Projects\67945\5-Working\Task_005 - I-5889B Rehab\Traffic Control\I-5889B_TMP1.dgn User:bwwhite



APPROVED: *Benjamin A. White*
DATE: 8/5/2022

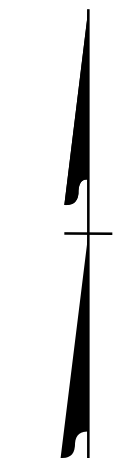
SEAL

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED



FRENCH BROAD RIVER GREENWAY CLOSURE

FARM TRAIL ROAD CLOSURE



RIVER WARNING SIGN

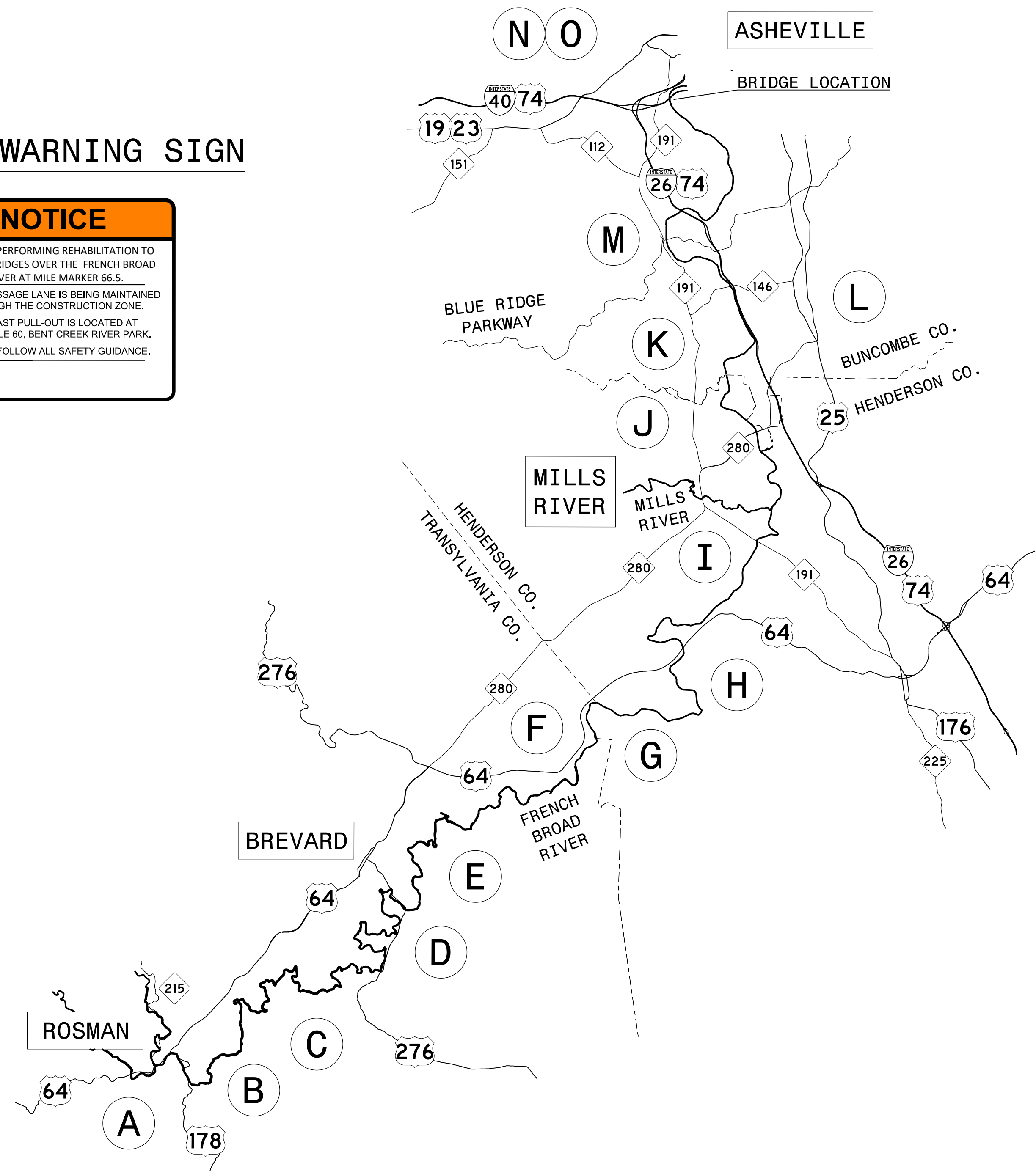
NOTICE

NCDOT IS PERFORMING REHABILITATION TO THE I-40 BRIDGES OVER THE FRENCH BROAD RIVER AT MILE MARKER 66.5.

A SAFE PASSAGE LANE IS BEING MAINTAINED THROUGH THE CONSTRUCTION ZONE.

THE LAST PULL-OUT IS LOCATED AT RIVER MILE 60, BENT CREEK RIVER PARK.

PLEASE FOLLOW ALL SAFETY GUIDANCE.



SIGN LOCATION MAP

N. T. S.

LOCATION	FACILITY	ADDRESS	LAT / LONG
A	HEADWATERS OUTFITTERS	25 PARKWAY RD ROSMAN, NC	35.14357° N 82.83892° W
B	CHAMPION PARK RIVER ACCESS	26 OLD TURNPIKE RD ROSMAN, NC	35.14606° N 82.82641° W
C	ISLAND FORD RIVER ACCESS	2753 ISLAND FORD RD BREVARD, NC	35.17848° N 82.75549° W
D	HAP SIMPSON PARK	666 GREENVILLE HWY BREVARD, NC	35.21790° N 82.71896° W
E	WILSON ROAD RIVER ACCESS	3553 WILSON RD PISGAH FOREST, NC	35.25149° N 82.69983° W
F	PENROSE BOAT RAMP	2398 OLD HENDERSONVILLE HWY PISGAH FOREST	35.27187° N 82.63734° W
G	BLANTYRE PARK	120 GROVE BRIDGE RD PENROSE, NC	35.29884° N 82.62166° W
H	HORSE SHOE RIVER ACCESS PARK	5437 BREVARD RD HORSE SHOE, NC	35.32969° N 82.57392° W
I	MILLS RIVER PARK	124 TOWN CENTER DR MILLS RIVER, NC	35.38697° N 82.54623° W
J	WESTFELDT PARK	29 FERNCLIFF PARK DR FLETCHER, NC	35.42223° N 82.53907° W
K	GLEN BRIDGE RIVER PARK	77 PINNER RD ARDEN, NC	35.45049° N 82.55540° W
L	CORCORAN PAIGE RIVER PARK	9 PINNER RD ARDEN, NC	35.45413° N 82.54777° W
M	BENT CREEK RIVER PARK	1592 BREVARD RD ASHEVILLE, NC	35.50144° N 82.59351° W
N	FRENCH BROAD RIVER OUTFITTERS	230 HOMINY CREEK RD ASHEVILLE, NC	35.55467° N 82.59131° W
O	HOMINY CREEK RIVER PARK	194 HOMINY CREEK RD ASHEVILLE, NC	35.55477° N 82.59142° W

NOTES:

- ERECT ONE RIVER WARNING SIGN AT EACH LOCATION LISTED ABOVE ON 3LB U-CHANNEL.
- COORDINATE WITH THE BUSINESS OWNER/PARK MANAGER AS TO WHERE ON SITE TO ERECT THE SIGN TO BE MOST VISIBLE PRIOR TO ENTERING THE RIVER.
- SIGNS SHALL BE ERECTED DURING TMP PHASES I AND II.
- SIGNS SHALL BE MAINTAINED DURING THE DURATION OF THE BRIDGE WORK OVER THE FRENCH BROAD RIVER.
- REMOVE AND DISPOSE OF SIGN SYSTEMS UPON COMPLETION OF WORK IN TMP PHASES I AND II.

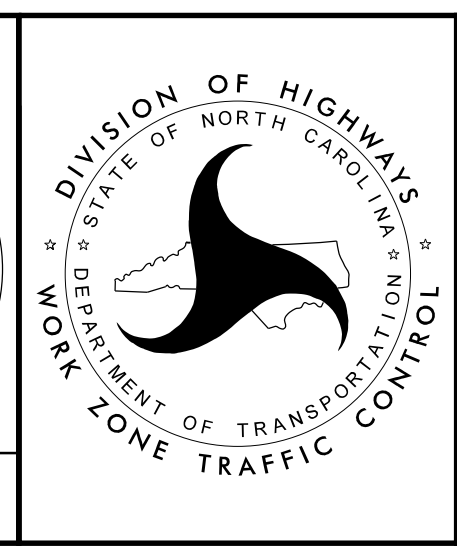


APPROVED: *Benjamin A. White*
DATE: 8/5/2022

SEAL

NORTH CAROLINA
PROFESSIONAL
ENGINEER
BENJAMIN A. WHITE
044594

DOCUMENT NOT CONSIDERED FINAL
UNLESS ALL SIGNATURES COMPLETED



**TRANSPORTATION
MANAGEMENT PLAN
FRENCH BROAD RIVER
WARNING SIGN
LOCATIONS**