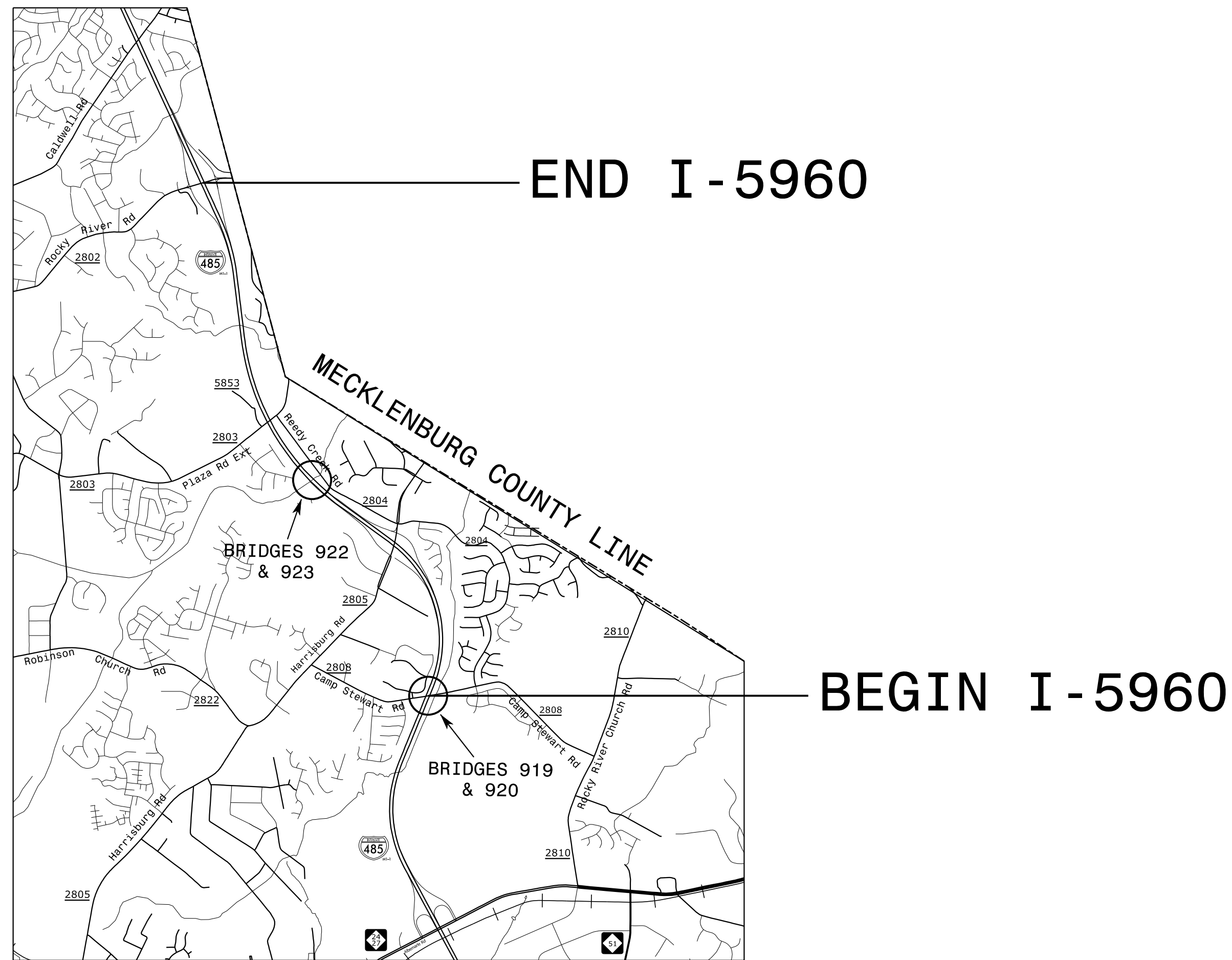
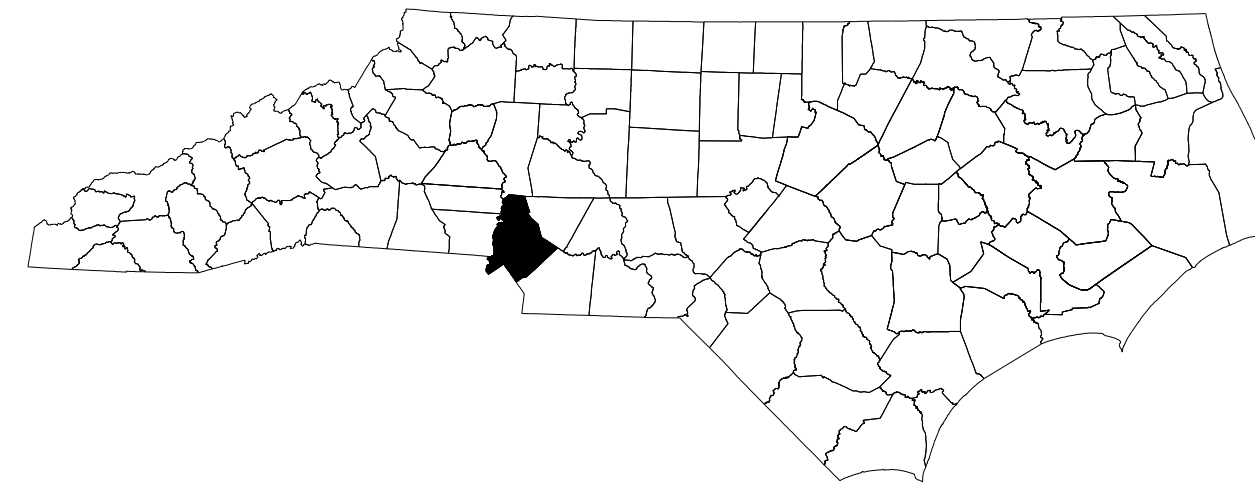


STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

TRANSPORTATION MANAGEMENT PLAN

MECKLENBURG COUNTY



LOCATION: I-485 OUTER AND INNER LOOP FROM SR 2808 (CAMP STEWART RD) TO SR 2802 (ROCKY RIVER RD)
TYPE OF WORK: PAVEMENT REHABILITATION AND BRIDGE PRESERVATION

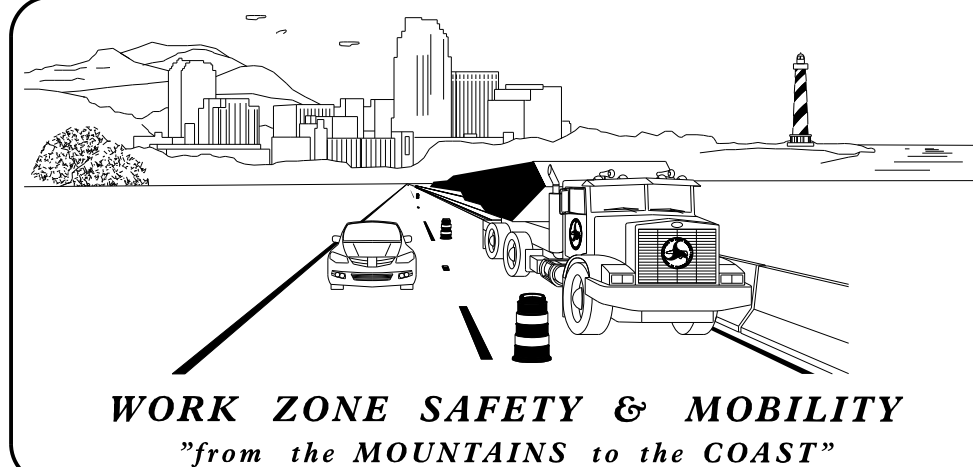
INDEX OF SHEETS	
SHEET NO.	TITLE
TMP-1	TITLE SHEET, VICINITY MAP, AND INDEX OF SHEETS
TMP-1A	LIST OF APPLICABLE ROADWAY STANDARD DRAWINGS, MANAGEMENT STRATEGIES, AND LEGEND
TMP-2	GENERAL
TMP-3	OPERATIONAL GUIDELINES AND PHASING
TMP-4	SHORT TERM CLOSURE AND DETOUR OF INTERSTATE/ FREEWAY RAMP
TMP-5	MAP OF RAMPS TO BE CLOSED DURING PAVEMENT RESURFACING

SHEET NO.
TMP-1

I-5960

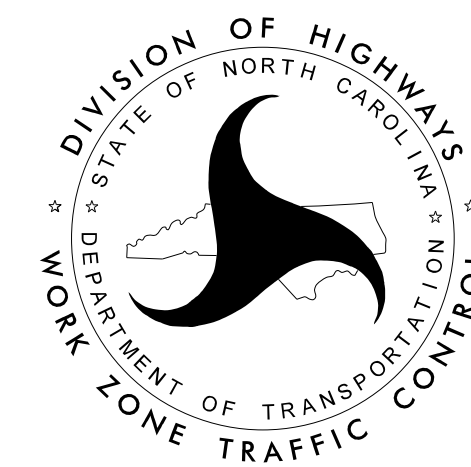
TIP PROJECT:

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N.C.D.O.T. WORK ZONE TRAFFIC CONTROL
1561 MAIL SERVICE CENTER (MSC) RALEIGH, NC 27699-1561
750 N. GREENFIELD PARKWAY, GARNER, NC 27529 (DELIVERY)
PHONE: (919) 773-2800 FAX: (919) 771-2745

J. S. BOURNE, P.E. STATE TRAFFIC MANAGEMENT ENGINEER
J. S. KITE, JR, P.E. TRAFFIC CONTROL PROJECT ENGINEER
R. M. GARRETT TRAFFIC CONTROL PROJECT DESIGN ENGINEER
K. E. DAIS TRAFFIC CONTROL DESIGN ENGINEER



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APPROVED: 
DATE: 7/25/2016

SEAL



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
1180.01	SKINNY-DRUM
1205.01	PAVEMENT MARKINGS - LINE TYPES AND OFFSETS
1205.02	PAVEMENT MARKINGS - TWO-LANE AND MULTI-LANE ROADWAYS
1205.03	PAVEMENT MARKINGS - EXITS AND ENTRANCE RAMP
1205.05	PAVEMENT MARKINGS - TURN LANES
1205.06	PAVEMENT MARKINGS - LANE DROPS
1205.08	PAVEMENT MARKINGS - SYMBOLS AND WORD MESSAGES
1205.09	PAVEMENT MARKINGS - PAINTED ISLANDS
1205.12	PAVEMENT MARKINGS - BRIDGES
1205.13	PAVEMENT MARKINGS - LANE REDUCTIONS
1250.01	RAISED PAVEMENT MARKERS - INSTALLATION SPACING
1251.01	RAISED PAVEMENT MARKERS - PERMANENT AND TEMPORARY

MANAGEMENT STRATEGIES




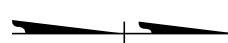


I-485 NORTHBOUND (OUTER LOOP) AND SOUTHBOUND (INNER LOOP) TRAFFIC WILL BE MAINTAINED BY TEMPORARY LANE CLOSURES DURING BRIDGE PRESERVATION WORK FOR BRIDGES #919 AND #920 OVER SR 2808 - CAMP STEWART ROAD AND BRIDGES #922 AND #923 OVER REEDY CREEK.

I-485 NORTHBOUND (OUTER LOOP) AND SOUTHBOUND (INNER LOOP) TRAFFIC WILL BE MAINTAINED BY TEMPORARY LANE CLOSURES DURING PAVEMENT REHABILITATION WORK. SOME RAMPS WILL BE CLOSED TO TRAFFIC TO COMPLETE THE PAVEMENT REHABILITATION. EXITING/ENTERING TRAFFIC WILL BE RE-REROUTED OFFSITE DURING RAMP CLOSURES.

TIME RESTRICTIONS WILL BE USED TO LIMIT THE AMOUNT OF DRIVER DELAY DURING LANE CLOSURES AND/OR RAMP CLOSURES.

LEGEND

GENERAL

-  DIRECTION OF TRAFFIC FLOW
-  DIRECTION OF PEDESTRIAN TRAFFIC FLOW
-  EXIST. PVMT.
-  NORTH ARROW
-  PROPOSED PVMT.
-  WORK AREA




PAVEMENT MARKINGS

-  EXISTING LINES
-  TEMPORARY LINES




TRAFFIC CONTROL DEVICES

-  BARRICADE (TYPE III)
-  CONE
-  DRUM
-  SKINNY DRUM
-  TUBULAR MARKER
-  FLASHING ARROW BOARD
-  CHANGEABLE MESSAGE SIGN

TEMPORARY SIGNING

-  PORTABLE SIGN
-  STATIONARY SIGN
-  STATIONARY OR PORTABLE SIGN

PAVEMENT MARKERS

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

PAVEMENT MARKING SYMBOLS

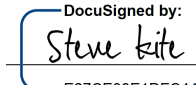
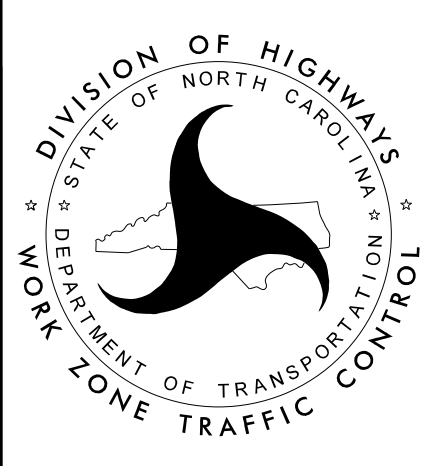
-  PAVEMENT MARKING SYMBOLS

TEMPORARY PAVEMENT MARKING

- 4"
- PA PAINT WHITE EDGELINE
 - PB PAINT YELLOW EDGELINE
 - PC PAINT 10 FT. WHITE SKIP

 - CA COLD APPLIED PLASTIC WHITE EDGELINE (TYPE IV - REMOVABLE TAPE)
 - CB COLD APPLIED PLASTIC YELLOW EDGELINE (TYPE IV - REMOVABLE TAPE)
 - CC COLD APPLIED PLASTIC 10 FT. WHITE SKIP (TYPE IV - REMOVABLE TAPE)

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APPROVED:  DATE: 7/25/2016			ROADWAY STANDARD DRAWINGS, MANAGEMENT STRATEGIES, AND LEGEND
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED			

GENERAL NOTES

PROJ. REFERENCE NO.	SHEET NO.
I-5960	TMP-2

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

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

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

ROAD NAME	DAY AND TIME RESTRICTIONS
I-485 (MAINLINE & RAMPS)	6:00 AM - 8:00 PM MONDAY - SUNDAY

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

ROAD NAME
I-485

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 AM DECEMBER 31st TO 8:00 PM JANUARY 2ND. IF NEW YEAR'S DAY IS ON A FRIDAY, SATURDAY, SUNDAY, OR MONDAY THEN UNTIL 8:00 PM THE FOLLOWING TUESDAY.
3. FOR EASTER, BETWEEN THE HOURS OF 6:00 AM THURSDAY AND 8:00 PM MONDAY.
4. FOR MEMORIAL DAY, BETWEEN THE HOURS OF 6:00 AM FRIDAY TO 8:00 PM TUESDAY.
5. FOR INDEPENDENCE DAY, BETWEEN THE HOURS OF 6:00 AM THE DAY BEFORE INDEPENDENCE DAY AND 8:00 PM THE DAY AFTER INDEPENDENCE DAY.

IF INDEPENDENCE DAY IS ON A FRIDAY, SATURDAY, SUNDAY OR MONDAY THEN BETWEEN THE HOURS OF 6:00 AM THE THURSDAY BEFORE INDEPENDENCE DAY AND 8:00 PM THE TUESDAY AFTER INDEPENDENCE DAY.

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

C) DO NOT CLOSE ROADS AS FOLLOWS:

ROAD NAME	DAY AND TIME RESTRICTIONS
I-485 (MAINLINE)	ANYTIME
I-485 (RAMPS)	6:00 AM - 8:00 PM (MONDAY - SUNDAY)

D) DO NOT STOP TRAFFIC AS FOLLOWS:

ROAD NAME	DAY AND TIME RESTRICTIONS
I-485 (MAINLINE & RAMPS)	ANYTIME

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

LANE AND SHOULDER CLOSURE REQUIREMENTS

- F) REMOVE LANE CLOSURE DEVICES FROM THE LANE WHEN WORK IS NOT BEING PERFORMED BEHIND THE LANE CLOSURE OR WHEN A LANE CLOSURE IS NO LONGER NEEDED OR AS DIRECTED BY THE ENGINEER.
- 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.
- 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.
- 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.
- H) DO NOT INSTALL MORE THAN ONE LANE CLOSURE IN ANY ONE DIRECTION ON I-485.

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 TWENTY ONE (21) CALENDAR DAYS PRIOR TO ANY TRAFFIC PATTERN ALTERATION.

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) ENSURE ALL NECESSARY SIGNING IS IN PLACE PRIOR TO ALTERING ANY TRAFFIC PATTERN.
- P) PROVIDE SIGNING AND DEVICES REQUIRED TO CLOSE THE ROAD ACCORDING TO THE ROADWAY STANDARD DRAWING AND TRAFFIC CONTROL PLANS.
- PROVIDE SIGNING REQUIRED FOR THE OFF-SITE DETOUR ROUTE AS SHOWN ON THE TRAFFIC CONTROL PLANS.
- Q) COVER OR REMOVE ALL SIGNS REQUIRED FOR THE OFF-SITE DETOUR WHEN THE DETOUR IS NOT IN OPERATION.

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) AND 1180 (SKINNY DRUMS) FOR ADDITIONAL REQUIREMENTS.
- Q) PLACE TYPE III BARRICADES, WITH "ROAD CLOSED" SIGN R11-2 ATTACHED, OF SUFFICIENT LENGTH TO CLOSE THE ENTIRE ROADWAY.
- S) PLACE ADDITIONAL SETS OF THREE CHANNELIZING DEVICES PERPENDICULAR TO THE EDGE OF TRAVELWAY ON 500 FT CENTERS WHEN UNOPENED LANES ARE CLOSED TO TRAFFIC.

PAVEMENT MARKINGS AND MARKERS

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

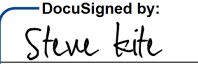
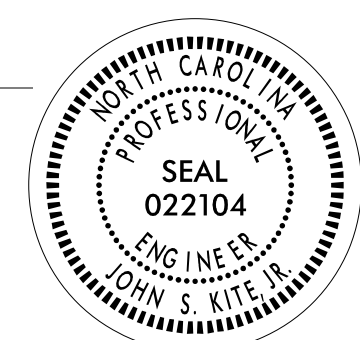

ROAD NAME	MARKING	MARKER
I-485 AND RAMPS BRIDGE DECKS	PAINT COLD APPLIED PLASTIC (TYPE IV - REMOVABLE TAPE)	TEMPORARY RAISED TEMPORARY RAISED

- V) TIE PROPOSED PAVEMENT MARKING LINES TO EXISTING PAVEMENT MARKING LINES.
- W) REMOVE/REPLACE ANY CONFLICTING/DAMAGED PAVEMENT MARKINGS AND MARKERS BY THE END OF EACH DAY'S OPERATION.

MISCELLANEOUS

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

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<p>APPROVED: </p> <p>DATE: 7/27/2016</p>			<h2 style="margin: 0;">GENERAL NOTES</h2>
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I-485 RESURFACING / PAVING OPERATIONAL GUIDELINES

FOR ANY RESURFACING / PAVING OPERATIONS PERFORMED OUTSIDE OF ANY ESTABLISHED LANE CLOSURE, THE CONTRACTOR SHALL MAINTAIN TRAFFIC IN ACCORDANCE WITH DIVISIONS 10, 11, AND 12 OF THE 2012 STANDARD SPECIFICATIONS, TMP-4, AND THE FOLLOWING PROVISIONS:

1) PAVING LIFT REQUIREMENTS AND TIME LIMITATIONS

FOR PAVING LIFTS 2.0" OR LESS, BRING ALL NEWLY RESURFACED LANES TO THE SAME STATION AND ELEVATION WITHIN 72 HOURS. IF NOT BROUGHT UP TO THE SAME STATION AND ELEVATION WITHIN 72 HOURS, THE CONTRACTOR SHALL PLACE PORTABLE "UNEVEN PAVEMENT" SIGNS IN ADVANCE OF THE UNEVEN PAVEMENT AND SPACED EVERY 1/2 MILE ALONG THE SECTION OF UNEVEN PAVEMENT. ONCE MITIGATED, ALL PORTABLE "UNEVEN PAVEMENT" SIGNS SHALL BE REMOVED. NO ADDITIONAL COMPENSATION WILL BE MADE FOR THESE SIGNS.

FOR PAVING LIFTS GREATER THAN 2.0", BRING ALL NEWLY RESURFACED LANES TO THE SAME STATION AND ELEVATION BY THE END OF EACH WORK DAY UNLESS THE CONTRACTOR UTILIZES THE NOTCHED WEDGE PAVING METHODS AS DESCRIBED BELOW. FAILURE TO COMPLY WITH THE FOLLOWING REQUIREMENTS WILL RESULT IN A SUSPENSION OF ALL OTHER OPERATIONS UNTIL ALL LANES OF TRAFFIC ARE BROUGHT TO THE SAME STATION AND ELEVATION:

- A. DURING PAVING OPERATIONS, ANY PAVING LIFT GREATER THAN 2.0" FOR ASPHALT SURFACE COURSE MIXES SHALL BE MITIGATED BY HAVING AN APPROVED WEDGE APPARATUS ON THE PAVER THAT SHAPES THE EDGE 1.0" VERTICALLY AND THE REMAINING AT A MAXIMUM SLOPE STEEPNESS OF 2:1. FOR INTERMEDIATE AND BASE COURSE MIXES, USE AN APPROVED WEDGE DEVICE THAT SHAPES THE EDGE WITH A MAXIMUM SLOPE STEEPNESS OF 2:1. THE MAXIMUM PAVING LIFT ALLOWED TO USE THIS METHOD IS 3.0".
- B. AT THE END OF THE WORK DAY, THE CONTRACTOR SHALL PLACE PORTABLE "UNEVEN PAVEMENT" SIGNS IN ADVANCE OF THE UNEVEN PAVEMENT AND SPACED EVERY 1/2 MILE ALONG THE SECTION OF UNEVEN PAVEMENT. ONCE MITIGATED, ALL PORTABLE "UNEVEN PAVEMENT" SIGNS SHALL BE REMOVED. NO ADDITIONAL COMPENSATION WILL BE MADE FOR THESE SIGNS.
- C. IN THE NEXT DAY'S PAVING OPERATION AND NOT EXCEEDING 72 HOURS, THE CONTRACTOR SHALL BRING THE ADJACENT LANE TO THE SAME STATION AND ELEVATION BEFORE ANY FURTHER PAVING TAKES PLACE ON THE PROJECT.

2) PROJECT REQUIREMENTS

FAILURE TO COMPLY WITH THE FOLLOWING REQUIREMENTS WILL RESULT IN A SUSPENSION OF ALL OTHER OPERATIONS:

- 1. CONTRACTOR SHALL MILL AND PAVE LANES IN AN ORDER SUCH THAT WATER WILL NOT ACCUMULATE.
- 2. TRAFFIC CONTROL FOR THE MILLING AND/OR PAVING OF RAMPS SHALL BE DONE ACCORDING TO ROADWAY STANDARD DRAWING 1101.02, SHEETS 9 & 10 UNLESS OTHERWISE APPROVED TO BE CLOSED BY THE ENGINEER. IF APPROVED, CONTRACTOR WILL PROVIDE PLANS AND DEVICES FOR THE DETOUR AT NO ADDITIONAL COST TO THE DEPARTMENT.
- 3. SEE SPECIAL PROVISION, "INTERMEDIATE CONTRACT TIMES AND LIQUIDATED DAMAGES".
- 4. IF MILLED AREAS ARE NOT PAVED BACK WITHIN 72 HOURS, THE CONTRACTOR SHALL FURNISH AND INSTALL THE FOLLOWING PORTABLE SIGNS TO WARN DRIVERS OF THE CONDITIONS. THESE ARE TO INCLUDE, BUT NOT LIMITED TO, "ROUGH ROAD" (W8-8), "UNEVEN LANES" (W8-11), AND "GROOVED PAVEMENT" (W8-15) WITH A MOTORCYCLE PLAQUE MOUNTED BELOW. THESE ARE TO BE DUAL INDICATED ON MULTI-LANE ROADWAYS WITH SPEED LIMITS 45 MPH AND GREATER WHERE LATERAL CLEARANCE CAN BE OBTAINED WITHIN THE MEDIAN AREAS. THESE PORTABLE SIGNS ARE INCIDENTAL TO THE OTHER ITEMS OF WORK.

** RSD DENOTES NCDOT 2012 ROADWAY STANDARD DRAWINGS

PHASING

STEP 1:

USING RSD 1101.01, SHEET 1 OF 3, INSTALL WORK ZONE ADVANCE WARNING SIGNS ON I-485 NORTHBOUND AND SOUTHBOUND.

STEP 2:

USING RSD 1101.02, SHEETS 4, 8, 9 & 10 OF 15:

COMPLETE PAVEMENT REHABILITATION ON I-485 UP TO, BUT NOT INCLUDING, THE FINAL LAYER OF SURFACE COURSE. FOR THE RAMPS THAT REQUIRE COMPLETE CLOSURE, REFER TO TMP-4 AND TMP-5 AND INTERMEDIATE CONTRACT TIMES. CLOSING RAMPS ONE AT A TIME, COMPLETE THE PAVEMENT REHABILITATION FOR ON AND OFF RAMPS AT THE SR 2805 (HARRISBURG RD.) AND SR 2802 (ROCKY RIVER RD.) INTERCHANGES.

COMPLETE SURFACE DECK PREPARATION AND EPOXY OVERLAY ON BRIDGES NO. 919, 920, 922, AND 923. INSTALL TEMPORARY COLD APPLIED PLASTIC PAVEMENT MARKINGS ON BRIDGE DECKS BY THE END OF THE DAY'S OPERATION. SEE INTERMEDIATE CONTRACT TIMES.

COMPLETE BRIDGE DECK JOINT REPAIRS.

STEP 3:

USING RSD 1101.02, SHEETS 4, 8, 9, & 10 OF 15, COMPLETE FINAL LAYER OF SURFACE COURSE.

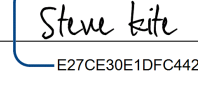
STEP 4:

USING RSD 1101.02, SHEET 4 & 13 OF 15, AS NECESSARY, INSTALL FINAL PAVEMENT MARKINGS AND FINAL PAVEMENT MARKERS IN THE FINAL TRAFFIC PATTERN ON I-485.

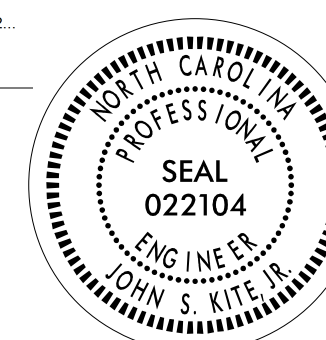
STEP 5:

REMOVE ALL TEMPORARY TRAFFIC CONTROL DEVICES.

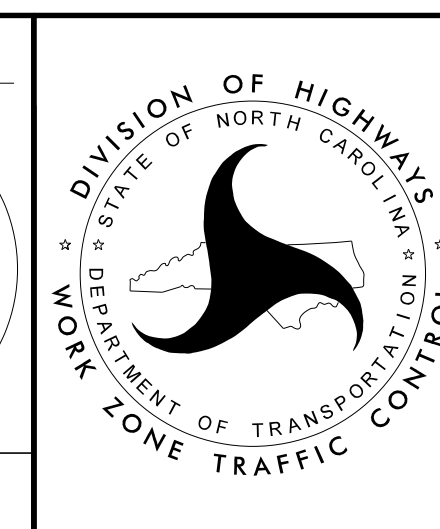
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DATE: 7/25/2016



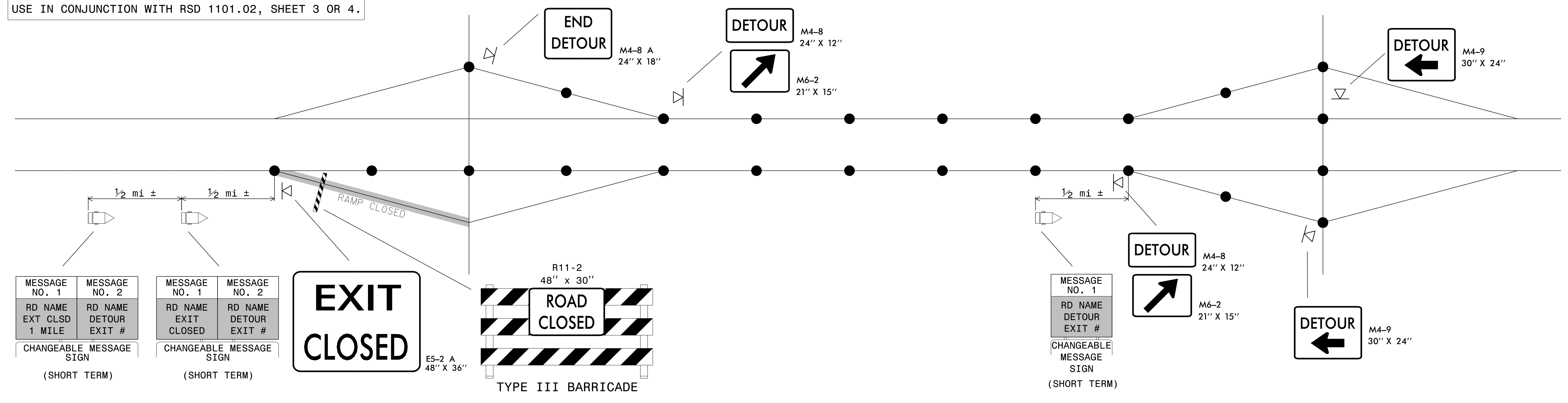
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED



OPERATIONAL GUIDELINES AND PHASING

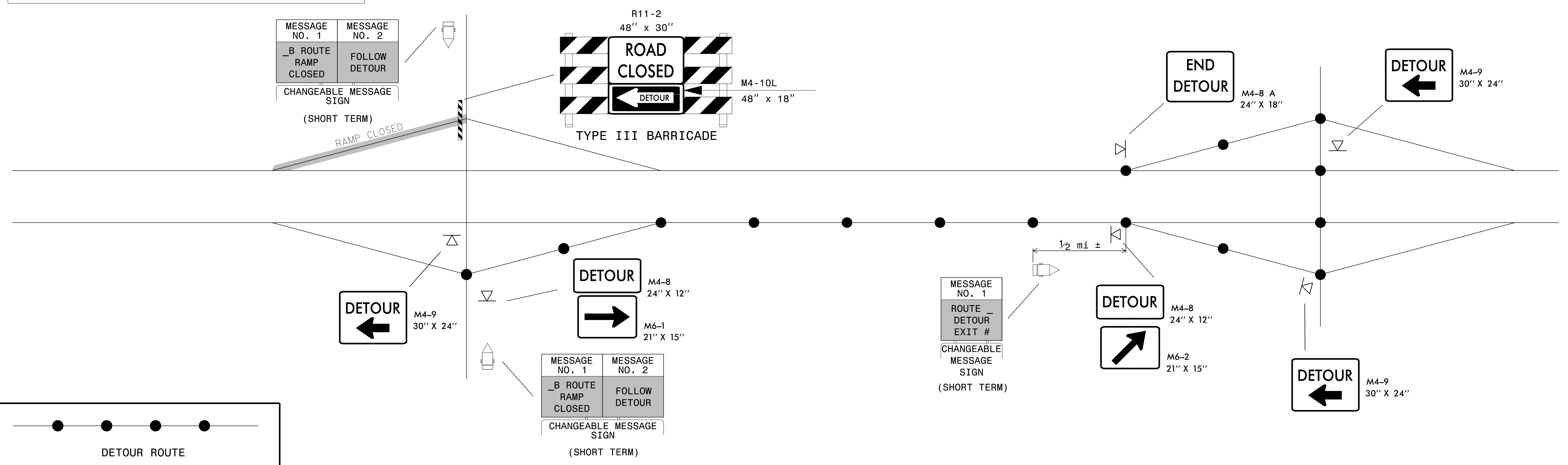
SHORT TERM CLOSURE AND DETOUR OF OFF-RAMP TO ADJACENT INTERCHANGE

USE IN CONJUNCTION WITH RSD 1101.02, SHEET 3 OR 4.



SHORT TERM CLOSURE AND DETOUR OF ON-RAMP TO ADJACENT INTERCHANGE

USE IN CONJUNCTION WITH RSD 1101.02, SHEET 3 OR 4.



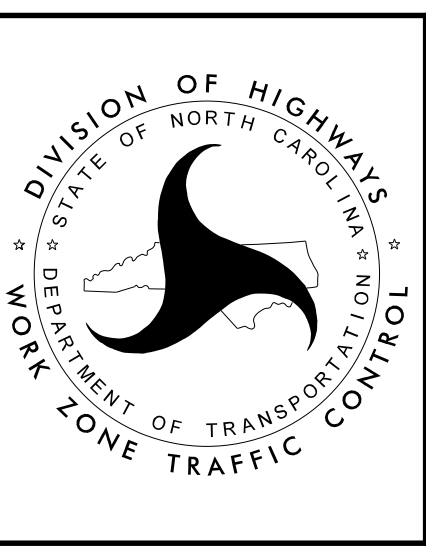
GENERAL NOTES:

1. THIS DRAWING IS INTENDED FOR USE DURING SHORT TERM CLOSURES OF INTERSTATE AND FREEWAY RAMPS.
2. RAMP CLOSURES SHALL BE APPROVED BY THE ENGINEER.
3. IF RAMP CLOSURE RESTRICTIONS APPLY, SEE SPECIAL PROVISION, "INTERMEDIATE CONTRACT TIMES AND LIQUIDATED DAMAGES".
4. ADDITIONAL CHANGEABLE MESSAGE SIGNS AND POSSIBLE DETOUR SIGNS MAY BE NECESSARY FOR MORE COMPLEX CLOSURES/DETOURS. COMPENSATION FOR ADDITIONAL DEVICES SHALL BE MADE BASED ON THE UNIT BID PRICE FOR THE RESPECTIVE DEVICE.

APPROVED: *Steve Kite*
 DATE: 7/25/2016

SEAL
 022104
 JOHN S. KITE, II
 ENGINEER

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

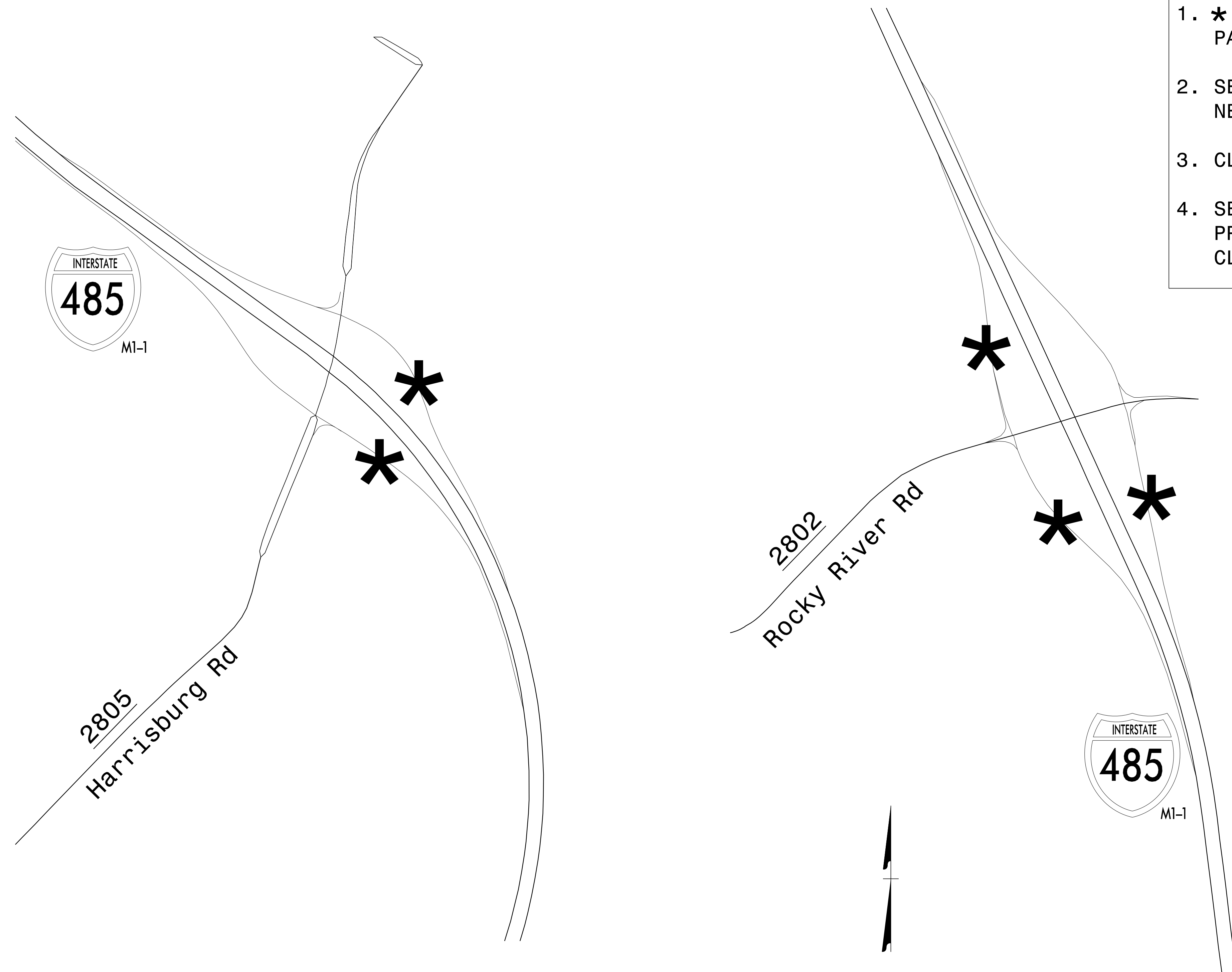


**SHORT TERM CLOSURE
 AND DETOUR OF
 INTERSTATE/FREEWAY
 RAMPS**

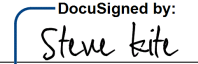
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NOTES:

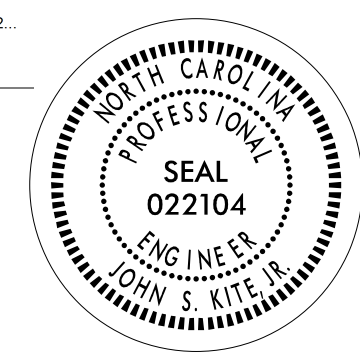
1. ✱ DENOTES RAMP THAT REQUIRES RAMP CLOSURE FOR PAVEMENT RESURFACING
2. SEE TMP-4 FOR TRAFFIC DETOUR ROUTES USING NEXT INTERCHANGE
3. CLOSE RAMPS ONE AT A TIME
4. SEE INTERMEDIATE CONTRACT TIME SPECIAL PROVISIONS FOR TIME RESTRICTIONS OF RAMP CLOSURES



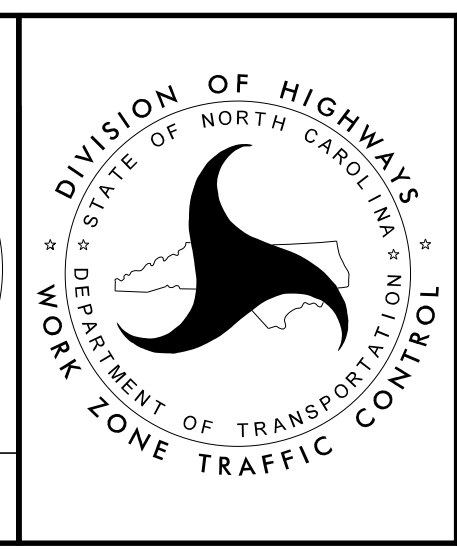
7/9/2016
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 User:keddj

APPROVED: 
E27CE30E1DFC442

DATE: 7/25/2016



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



**MAP OF RAMPS TO
BE CLOSED DURING
PAVEMENT RESURFACING**