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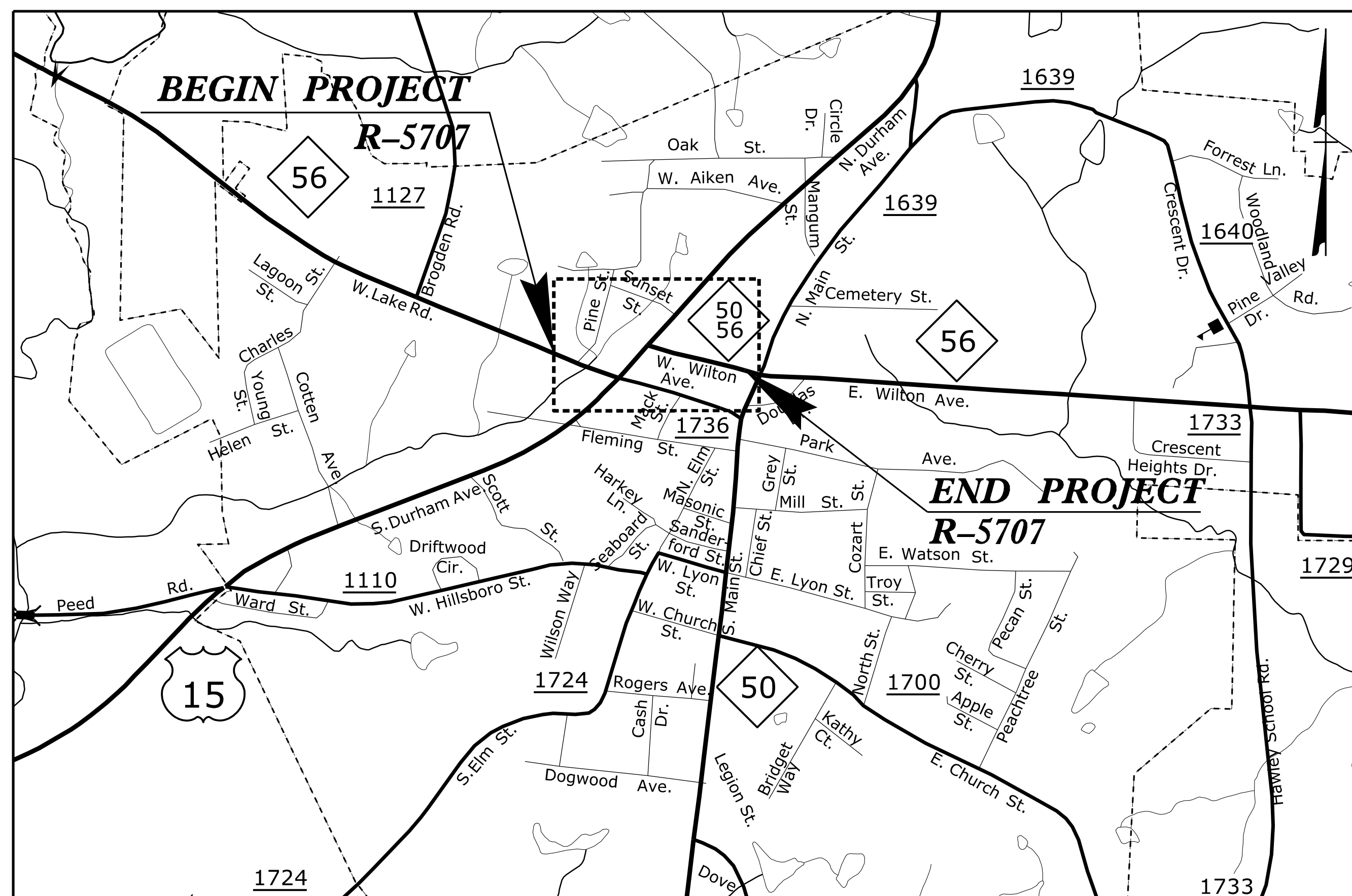
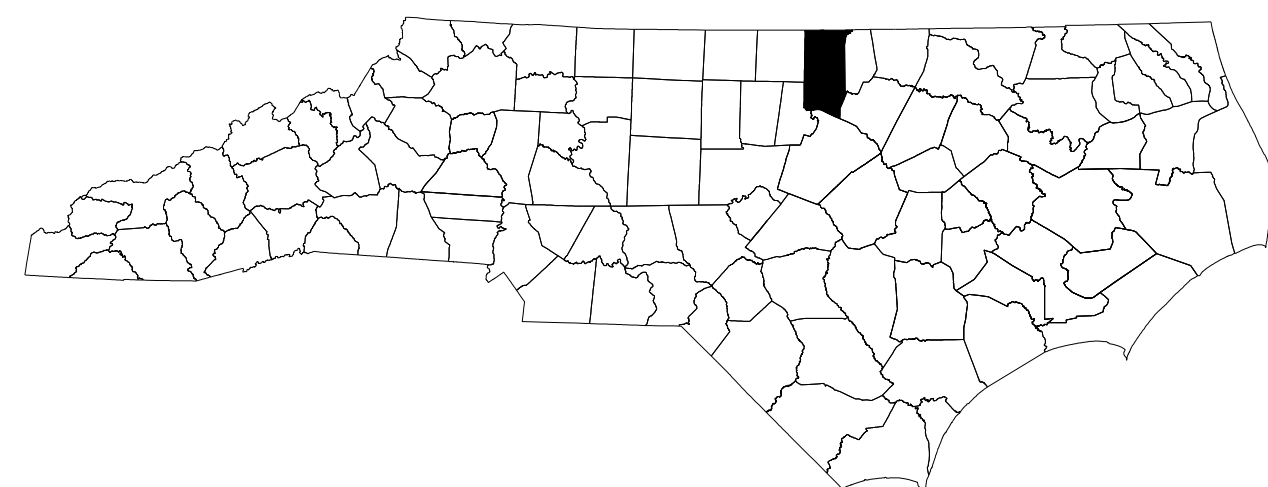
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STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

TRANSPORTATION MANAGEMENT PLAN

GRANVILLE COUNTY



SHEET NO.	TITLE
TMP-1	TITLE SHEET, VICINITY MAP, AND INDEX OF SHEETS
TMP-1A	LIST OF APPLICABLE ROADWAY STANDARD DRAWINGS, AND LEGEND
TMP-1B	GENERAL NOTES
TMP-1C	MANAGEMENT STRATEGIES AND PHASING NOTES
TMP-4 THRU TMP-5	TEMPORARY TRAFFIC CONTROL PHASE I DETAIL
TMP-6 THRU TMP-7	TEMPORARY TRAFFIC CONTROL PHASE II DETAIL

SHEET NO.
TMP-1

R-5707

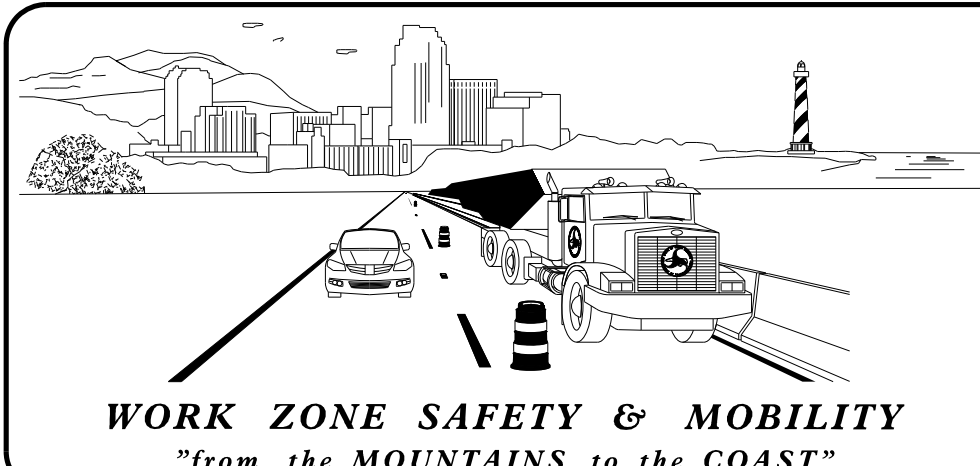
TIP PROJECT:

CLAUDETTE M.K ROQUE, P.E.
PROJECT ENGINEER
KAYLA M. POULOS, E.I.
PROJECT DESIGN ENGINEER

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APPROVED: *Claudette M.K. Roque*
DATE: 1/29/2019
SEAL



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

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D. RICHARDSON TRAFFIC CONTROL DESIGN ENGINEER








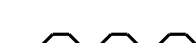
ROADWAY STANDARD DRAWINGS


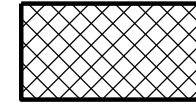
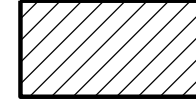

THE FOLLOWING ROADWAY STANDARDS AS SHOWN IN "ROADWAY STANDARD DRAWINGS" - PROJECT SERVICES UNIT - N.C. DEPARTMENT OF TRANSPORTATION - RALEIGH, N.C., DATED JANUARY 2018 ARE APPLICABLE TO THIS PROJECT AND BY REFERENCE HEREBY ARE CONSIDERED A PART OF THESE PLANS:

<u>STD. NO.</u>	<u>TITLE</u>
1101.01	WORK ZONE 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
1130.01	DRUMS
1135.01	CONES
1145.01	BARRICADES
1150.01	FLAGGING DEVICES
1180.01	SKINNY - DRUM
1205.01	PAVEMENT MARKINGS - LINE TYPES AND OFFSETS
1205.02	PAVEMENT MARKINGS - TWO LANE AND MULTILANE ROADWAYS
1205.04	PAVEMENT MARKINGS - INTERSECTIONS
1205.05	PAVEMENT MARKINGS - TURN LANES
1205.07	PAVEMENT MARKINGS - PEDESTRIAN CROSSWALKS
1205.08	PAVEMENT MARKINGS - SYMBOLS AND WORD MESSAGES
1205.09	PAVEMENT MARKINGS - PAINTED ISLANDS
1250.01	RAISED PAVEMENT MARKERS - INSTALLATION SPACING
1251.01	RAISED PAVEMENT MARKERS - (PERMANENT AND TEMPORARY)




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
-  WEDGING
-  USER DEFINED (IF NEEDED)

SIGNALS

-  EXISTING
-  PROPOSED
-  TEMPORARY







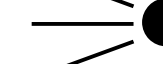


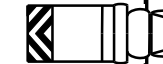

PAVEMENT MARKINGS

-  EXISTING LINES
-  TEMPORARY LINES




TEMPORARY PAVEMENT MARKINGS

- PAINT (4")
 - PA - WHITE EDGELINE
 - PD - 3 FT.-9 FT./SP WHITE MINISKIP
 - PE - WHITE SOLID LAND LINE
 - PI - YELLOW DOUBLE CENTER
- PAINT (8")
 - PQ - WHITE CROSSWALK LINE
- PAINT (12")
 - P2 - WHITE STOPBAR




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

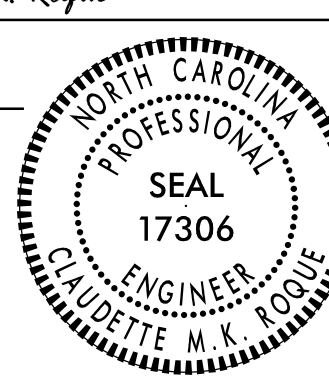
-  PORTABLE SIGN
-  STATIONARY SIGN
-  STATIONARY OR PORTABLE SIGN

PAVEMENT MARKERS

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

PAVEMENT MARKING SYMBOLS

-  PAVEMENT MARKING SYMBOLS

APPROVED: <i>Claudette M.K. Rogue</i> DATE: 1/29/2019 SEAL		
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED		
ROADWAY STANDARD DRAWINGS & LEGEND		

GENERAL NOTES

PROJ. REFERENCE NO. R-5707	SHEET NO. TMP-1B
 RAMEY KEMP ASSOCIATES, INC. <small>Transportation Engineers 5808 Faringdon Place, Suite 100 Raleigh, North Carolina 27609 Phone: 919-872-5115 www.rameykemp.com NC License No. C-9910</small>	

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 UNDESIRABLE 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
-L- NC 50/NC 56 (W. LAKE ROAD/W. WILTON AVENUE)	MONDAY - FRIDAY 6:00 AM - 9:00 AM
EX. W. LAKE ROAD (PHASE 1)	4:00 PM - 7:00 PM
-Y3- US 15 (N. DURHAM AVENUE)	

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

ROAD NAME
-L- NC 50/NC 56 (W. LAKE ROAD/W. WILTON AVENUE)
EX. W. LAKE ROAD (PHASE 1)
-Y3- US 15 (N. DURHAM AVENUE)

1. FOR ANY UNEXPECTED OCCURRENCE THAT CREATES UNUSUALLY HIGH TRAFFIC VOLUMES, AS DIRECTED BY THE ENGINEER.
2. FOR NEW YEAR'S DAY, BETWEEN THE HOURS OF 7:00 PM DECEMBER 31ST AND 9:00 AM JANUARY 2ND. IF NEW YEAR'S DAY IS ON A FRIDAY, SATURDAY, SUNDAY OR MONDAY, THEN UNTIL 9:00 AM THE FOLLOWING TUESDAY.
3. FOR EASTER, BETWEEN THE HOURS OF 4:00 PM THURSDAY AND 9:00 AM MONDAY.
4. FOR MEMORIAL DAY, BETWEEN THE HOURS OF 4:00 PM FRIDAY AND 9:00 AM TUESDAY.
5. FOR INDEPENDENCE DAY, BETWEEN THE HOURS OF 4:00 PM THE DAY BEFORE INDEPENDENCE DAY AND 9:00 AM THE DAY AFTER INDEPENDENCE DAY.

IF INDEPENDENCE DAY IS ON A FRIDAY, SATURDAY, SUNDAY OR MONDAY, THEN BETWEEN THE HOURS OF 4:00 PM THE THURSDAY BEFORE INDEPENDENCE DAY AND 9:00 AM THE TUESDAY AFTER INDEPENDENCE DAY.
6. FOR LABOR DAY, BETWEEN THE HOURS OF 4:00 PM FRIDAY AND 9:00 AM TUESDAY.
7. FOR THANKSGIVING DAY, BETWEEN THE HOURS OF 4:00 PM TUESDAY AND 9:00 AM MONDAY.
8. FOR CHRISTMAS, BETWEEN THE HOURS OF 4:00 PM THE FRIDAY BEFORE THE WEEK OF CHRISTMAS DAY AND 9:00 AM THE FOLLOWING TUESDAY AFTER THE WEEK OF CHRISTMAS DAY.
9. FOR MUSIC FESTIVAL HELD 3rd SATURDAY OF SEPTEMBER, BETWEEN THE HOURS OF 4:00 PM THE FRIDAY OF THE WEEK OF THE MUSIC FESTIVAL AND 9:00 AM THE FOLLOWING MONDAY AFTER THE WEEK OF THE MUSIC FESTIVAL.

C) DO NOT STOP TRAFFIC AS FOLLOWS:

ROAD NAME	DAY AND TIME RESTRICTIONS	DURATION AND OPERATION
-L- NC 50/NC 56 (W. LAKE ROAD/W. WILTON AVENUE)	MONDAY - FRIDAY 6:00 AM - 9:00 AM	15 MINUTES: COORDINATE WITH RESIDENT ENGINEER FOR INSTALLATION OF NEW SIGNAL SYSTEM & REMOVAL OF OLD SYSTEM
-Y3- US 15 (N. DURHAM AVENUE)	4:00 PM - 7:00 PM	

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.

I) DO NOT INSTALL MORE THAN ONE LANE CLOSURE IN ANY ONE DIRECTION ON ANY ROAD.

J) PROVIDE TRAFFIC CONTROL FOR APPROPRIATE LANE CLOSURES FOR SURVEYING DONE BY THE DEPARTMENT.

PAVEMENT EDGE DROP OFF REQUIREMENTS

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

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

TRAFFIC PATTERN ALTERATIONS

M) NOTIFY THE ENGINEER THIRTY (30) 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) PROVIDE SIGNING AND DEVICES REQUIRED TO CLOSE THE ROAD ACCORDING TO THE ROADWAY STANDARD DRAWINGS AND TRAFFIC CONTROL PLANS.
- P) COVER OR REMOVE ALL SIGNS AND DEVICES REQUIRED TO CLOSE THE ROAD WHEN ROAD CLOSURE IS NOT IN OPERATION.
- Q) ENSURE ALL NECESSARY SIGNING IS IN PLACE PRIOR TO ALTERING ANY TRAFFIC PATTERN.
- R) INSTALL BLACK ON ORANGE "DIP" SIGNS (W8-2) AND/OR "BUMP" SIGNS (W8-1) 200 FT IN ADVANCE OF THE UNEVEN AREA, OR AS DIRECTED BY THE ENGINEER.

TRAFFIC CONTROL DEVICES

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

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

ROAD NAME	MARKING	MARKER
-Y1-	PAINT	NONE
-L- & -Y3-	PAINT	RAISED

W) 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.

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

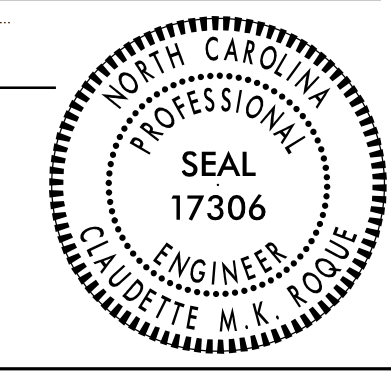
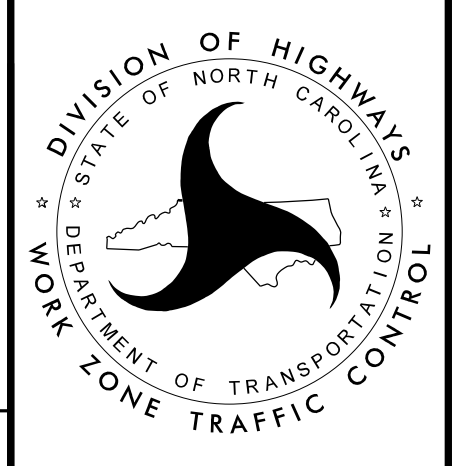
Y) REMOVE/REPLACE ANY CONFLICTING/DAMAGED PAVEMENT MARKINGS AND MARKERS BY THE END OF EACH DAY'S OPERATION.

Z) 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

- AA) LAW ENFORCEMENT MAY BE USED TO MAINTAIN TRAFFIC THROUGH THE WORK AREA AND/OR INTERSECTIONS AS DIRECTED BY THE ENGINEER.
- BB) IN THE EVENT A TIE-IN CANNOT BE MADE IN ONE DAY'S TIME, BRING 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) 400 FT. AND 200 FT. RESPECTIVELY IN ADVANCE OF THE UNEVEN AREAS. USE DRUMS TO DELINEATE THE EDGE OR ROADWAY ALONG UNPAVED AREAS.
- CC) ALL CURB RAMP LOCATIONS SHALL BE DERIVED FROM STATIONING SHOWN ON PAVEMENT MARKING PLANS OR AS DIRECTED BY THE ENGINEER IN COORDINATION WITH THE SIGNING AND DELINEATION UNIT.
- DD) CONTRACTOR SHALL MAINTAIN SIDEWALK ACCESS AT ALL TIMES AS STATED IN THE PHASING. CONTRACTOR SHALL BE RESPONSIBLE TO PROVIDE TEMPORARY SIDEWALKS (CONCRETE, ASPHALT, OR OTHER SUITABLE MATERIAL AS APPROVED BY THE ENGINEER) AT ALL LOCATIONS WHERE THE OPEN PEDESTRIAN TRAVELWAY HAS BEEN REMOVED FOR CONSTRUCTION OPERATIONS (UTILITIES, DRAINAGE, ETC).

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APPROVED: <i>Claudette M.K. Rogue</i> <small>4883927205CC441</small> DATE: 2/14/2019 SEAL			<h2 style="margin: 0;">GENERAL NOTES</h2>
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MANAGEMENT STRATEGIES

THIS PROJECT CONSISTS OF CONSTRUCTING NC 56 (-L-) ON NEW LOCATION FROM EXISTING NC 56 (WEST LAKE RD) TO THE INTERSECTION OF NC 50 / NC 56 (W. WILTON AVE) AND US 15 (N. DURHAM AVE); REALIGNING WEST LAKE RD (-Y1-) FROM THE NEW NC 56 TO THE INTERSECTION OF EXISTING WEST LAKE RD AND US 15 (N. DURHAM AVE); CUL-DE-SACING N. PINE ST (-Y2-); AND WIDENING US 15 (-Y3-), AND W. WILTON AVE (-L-) EAST OF US 15 TO ACCOMMODATE PROPOSED TURN LANES.

PART OF NC 56 (-L-) AND WEST LAKE RD (-Y1-) WEST OF US 15 IS ON NEW LOCATION AND CAN BE CONSTRUCTED AWAY FROM TRAFFIC. ALL OTHER CONSTRUCTION WILL REQUIRE FLAGGER CONTROL.

PHASING NOTES

THE CONTRACTOR SHALL MAINTAIN ACCESS TO THE EXISTING DRIVEWAYS AS DIRECTED BY THE ENGINEER.

THE CONTRACTOR MUST RETURN TRAFFIC TO THE EXISTING PATTERN AT THE END OF EACH WORKDAY UNLESS OTHERWISE NOTED IN THE PHASING OR DIRECTED BY THE ENGINEER.

PHASE I (SEE TMP-4 THRU TMP-5)

STEP 1: INSTALL WORK ZONE ADVANCE WARNING SIGNS (SEE RSD 1101.01). TWO WEEKS PRIOR TO ANY CONSTRUCTION OPERATIONS, PLACE CHANGEABLE MESSAGE SIGNS AS SHOWN ON TMP-4 AND TMP-5. REMOVE SIGNS ONCE CONSTRUCTION BEGINS.

STEP 2: BEGIN CONSTRUCTION ON NC 56 (-L-) AND WEST LAKE RD (-Y1-) WEST OF US 15 AWAY FROM TRAFFIC INCLUDING ROADWAY, DRAINAGE, AND WATER/SEWER UP TO BUT NOT INCLUDING THE FINAL SURFACE COURSE. MAINTAIN TRAFFIC ON EXISTING WEST LAKE RD AND N. PINE ST (-Y2-).

STEP 3: INSTALL SIGNAL POLES IN FINAL LOCATION AND INSTALL/COVER NEW SIGNALS PER SIGNAL PLANS. COORDINATE WITH RESIDENT ENGINEER FOR LANE CLOSURES (SEE RSD 1101.02 SHEET 1 OF 14) OR SHORT TERM ROAD CLOSURES (SEE RSD 1101.03 SHEET 8 OF 9).

USING RSD 1101.02 (SHEET 1 OF 14):

- COMPLETE PAVING OF SUNSET ST (-Y5-) AND OPEN TO TRAFFIC PRIOR TO CLOSING PINE ST (-Y2-) IN ORDER TO COMPLETE CONSTRUCTION OF NC 56 (-L-) WEST OF US 15.
- COMPLETE CONSTRUCTION OF NC 56 (-L-) WEST OF US 15, INCLUDING TIE-INS OF NC 56 (-L-) TO EXISTING W. LAKE ROAD AND US 15 (-Y3-) INCLUDING ROADWAY, DRAINAGE, AND WATER/SEWER UP TO BUT NOT INCLUDING FINAL SURFACE COURSE.
- COMPLETE CONSTRUCTION OF CUL-DE-SAC ON N. PINE ST (-Y2-), -DR2- & -DR3- INCLUDING ROADWAY, DRAINAGE, AND WATER/SEWER UP TO BUT NOT INCLUDING FINAL SURFACE COURSE.
- BEGIN CONSTRUCTION ON WEST SIDE OF US 15 (-Y3-) INCLUDING ROADWAY, DRAINAGE, AND WATER/SEWER UP TO BUT NOT INCLUDING FINAL SURFACE COURSE.
- INSTALL DRAINAGE ON NORTH SIDE OF W. LAKE ROAD FROM STRUCTURE NO. 561 TO STRUCTURE NO. 502 INCLUDING TEMPORARY 15" HDPE FROM STRUCTURE NO. 502 TO EXIST SIDE DITCH NEAR OUTLET OF EXIST 18" RCP (TO BE REMOVED IN PHASE I) TO FLOW THROUGH EXIST 54" CMP (TO BE REMOVED IN PHASE II). WHEN INSTALLING SEWER LINE, MAINTAIN EXISTING LINE FROM MHA TO MHB (TO BE REPLACED IN PHASE II)(SEE UTILITY CONSTRUCTION PLANS). WHEN INSTALLING DRAINAGE SYSTEM FROM STRUCTURE NO. 400, INSTALL PART OF 36" RCP-IV FROM STRUCTURE NO. 405 TO STRUCTURE NO. 406 TO OUTLET INTO EXIST DITCH AND FLOW THROUGH EXIST 24" CMP (TO BE REMOVED IN PHASE II). INSTALL PART OF 18" RCP-IV FROM STRUCTURE NO. 420 TO STRUCTURE NO. 406 TO OUTLET INTO EXIST 24" CMP.
- BEGIN CONSTRUCTION OF W. WILTON AVENUE (-L-) EAST OF US 15 (-Y3-) INCLUDING ROADWAY, DRAINAGE, AND WATER/SEWER UP TO BUT NOT INCLUDING FINAL SURFACE COURSE. WHEN INSTALLING 18" RCP-IV FROM STRUCTURE NO. 534 TO STRUCTURE NO. 535, INSTALL IN SECTIONS IN ORDER TO MAINTAIN TRAFFIC.
- BEGIN CONSTRUCTION OF MACK STREET (-Y4-) AND -DR1- INCLUDING ROADWAY AND DRAINAGE UP TO BUT NOT INCLUDING FINAL SURFACE COURSE.
- BEGIN CONSTRUCTION OF EAST SIDE OF US 15 (-Y3-) INCLUDING ROADWAY, DRAINAGE, AND WATER/SEWER UP TO BUT NOT INCLUDING FINAL SURFACE COURSE.

PHASE II (SEE TMP-6 THRU TMP-7)

STEP 1: APPLY TEMPORARY PAVEMENT MARKINGS AND MARKERS ON NC 56 (-L-) AND US 15 (-Y3-).

STEP 2: CONTRACTOR MAY USE LAW ENFORCEMENT TO DIRECT TRAFFIC AT INTERSECTION. CLOSE EXISTING WEST LAKE RD FROM NEW NC 56 TO US 15. OPEN NC 56 (-L-) TO TRAFFIC. UNCOVER/ACTIVATE NEW SIGNAL SYSTEM AT NC 56 (-L-) AND US 15 (-Y3-) INTERSECTION. REMOVE EXISTING SIGNAL SYSTEM AT THE INTERSECTION OF WEST LAKE RD (-Y1-) AND US 15 (-Y3-). COORDINATE WITH RESIDENT ENGINEER FOR LANE CLOSURES (SEE RSD 1101.02 SHEET 1 OF 14) OR SHORT TERM ROAD CLOSURES (SEE RSD 1101.03 SHEET 8 OF 9).

STEP 3: COMPLETE CONSTRUCTION OF WEST LAKE RD (-Y1-) WEST OF US 15 INCLUDING ROADWAY, REMAINING DRAINAGE AND SEWER LINE AND REMOVE TEMPORARY 15" PIPE, EXIST 54" CMP AND EXIST 24" CMP UP TO BUT NOT INCLUDING FINAL SURFACE COURSE. TEMPORARILY ALLOW DRIVEWAY ACCESS TO NC 56 (-L-) WHILE REMAINING DRAINAGE AND SEWER LINE ARE BEING INSTALLED AND EXIST PINE ST IS BEING RECONNECTED TO WEST LAKE RD (-Y1-). APPLY TEMPORARY PAVEMENT MARKINGS. OPEN TO TRAFFIC. REMOVE EXIST PINE ST AND SEND DRIVEWAY TO NEWLY OPENED WEST LAKE RD (-Y1-).

STEP 4: USING RSD 1101.02 (SHEET 1 OF 14), COMPLETE CONSTRUCTION OF ROADWAY IMPROVEMENTS ALONG US 15 (-Y3-), W. WILTON AVE (-L-) EAST OF US 15, MACK ST (-Y4-), AND -DR1- INCLUDING WIDENING AND DRAINAGE UP TO BUT NOT INCLUDING FINAL SURFACE COURSE. APPLY TEMPORARY PAVEMENT MARKINGS AND MARKERS (-L- & -Y3- ONLY).

PHASE III

STEP 1: USING RSD 1101.02 (SHEETS 1 & 2 OF 14), PLACE FINAL LAYER OF SURFACE COURSE ON ALL ROADS, INCLUDING RESURFACING OF EXISTING ROADWAYS.

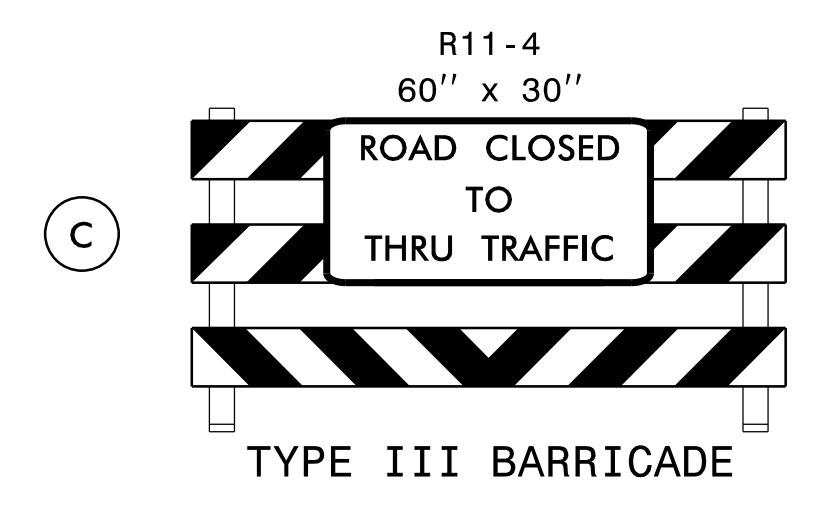
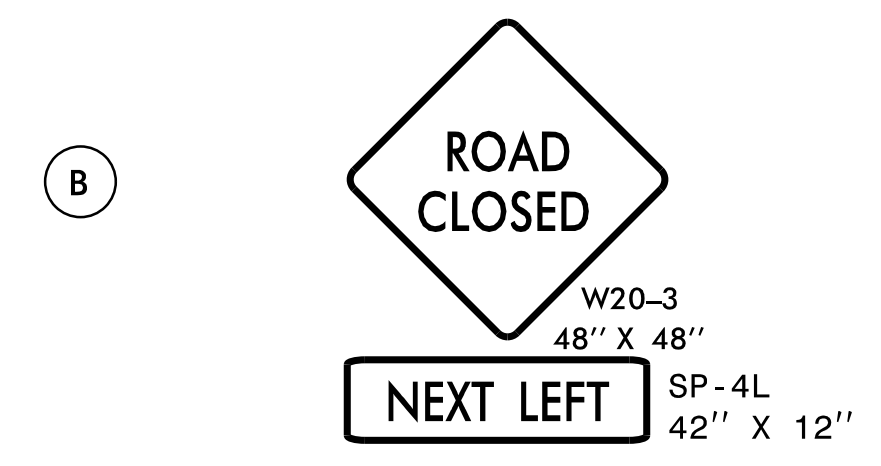
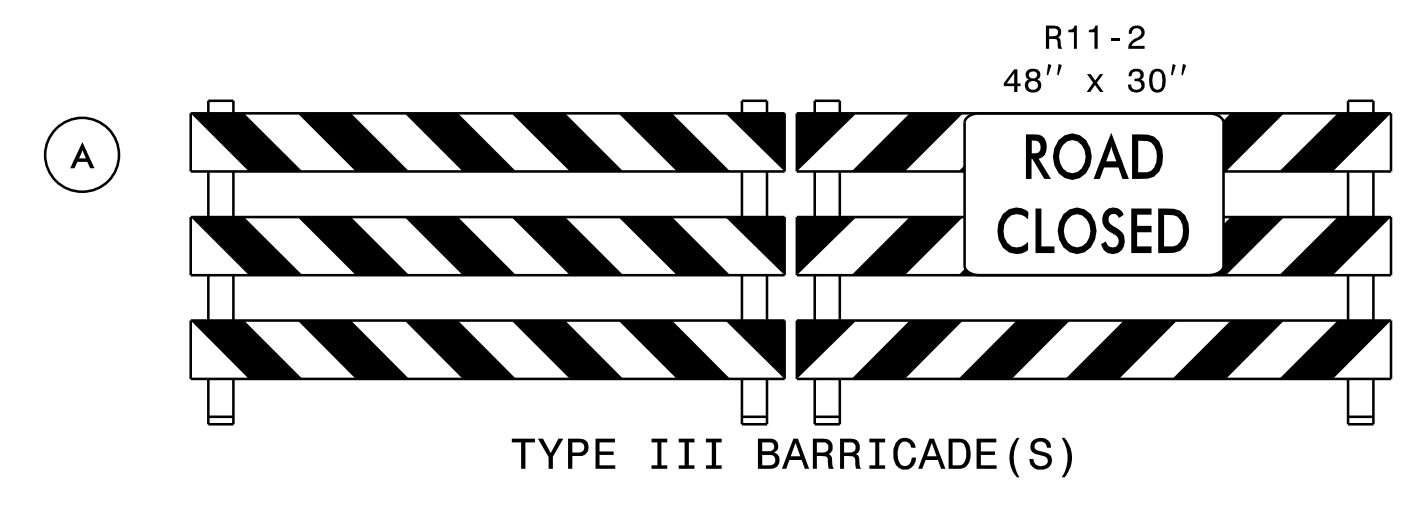
STEP 2: USING RSD 1101.02 (SHEETS 1 & 2 OF 14), INSTALL FINAL PAVEMENT MARKINGS AND MARKERS ON -L-, -Y1-, AND -Y3- (SEE PAVEMENT MARKING PLAN FOR LAYOUT).

STEP 3: REMOVE ALL REMAINING TRAFFIC CONTROL DEVICES AND WORK ZONE SIGNS. OPEN ALL ROADS TO TRAFFIC.

1/29/2019 11:57:07 AM User: kwise

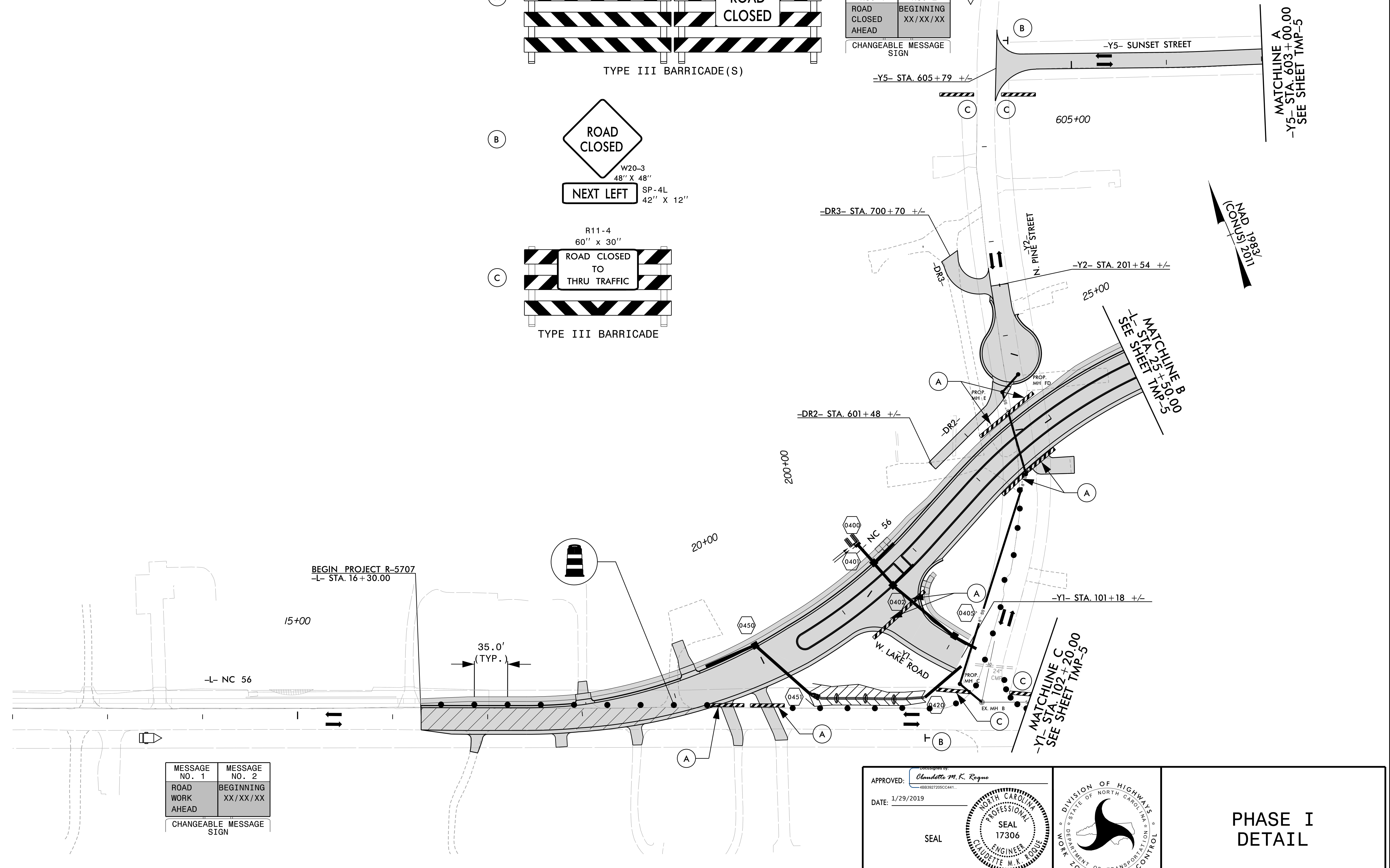
APPROVED: <i>Charlette M.K. Rogue</i> DATE: 1/29/2019 SEAL			MANAGEMENT STRATEGIES AND PHASING NOTES
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED			

NOTE: 1. SEE RSD STD 1101.01 FOR WORK ZONE ADVANCE WARNING SIGNS.



MESSAGE NO. 1 ROAD CLOSED AHEAD	MESSAGE NO. 2 BEGINNING XX/XX/XX
CHANGEABLE MESSAGE SIGN	

CONSTRUCTION
WEDGING



MESSAGE NO. 1 ROAD WORK AHEAD	MESSAGE NO. 2 BEGINNING XX/XX/XX
CHANGEABLE MESSAGE SIGN	

APPROVED: *Claudette M.K. Roque*
 DATE: 1/29/2019

SEAL

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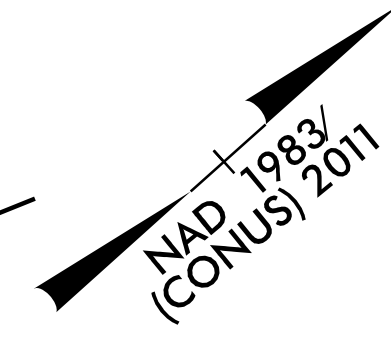
DIVISION OF HIGHWAYS
 STATE OF NORTH CAROLINA
 DEPARTMENT OF TRANSPORTATION
 WORK ZONE TRAFFIC CONTROL

PROFESSIONAL SEAL
 17306
 ENGINEER
 CLAUDETTE M.K. ROQUE

PHASE I
DETAIL

PROJ. REFERENCE NO.	SHEET NO.
R-5707	TMP-5

RAMEY KEMP ASSOCIATES, INC.
 Transportation Engineers
 5805 Faringdon Place, Suite 100
 Raleigh, North Carolina 27609
 Phone: 919-872-5115
 www.rameykemp.com
 NC License No. C-9910



CONSTRUCTION

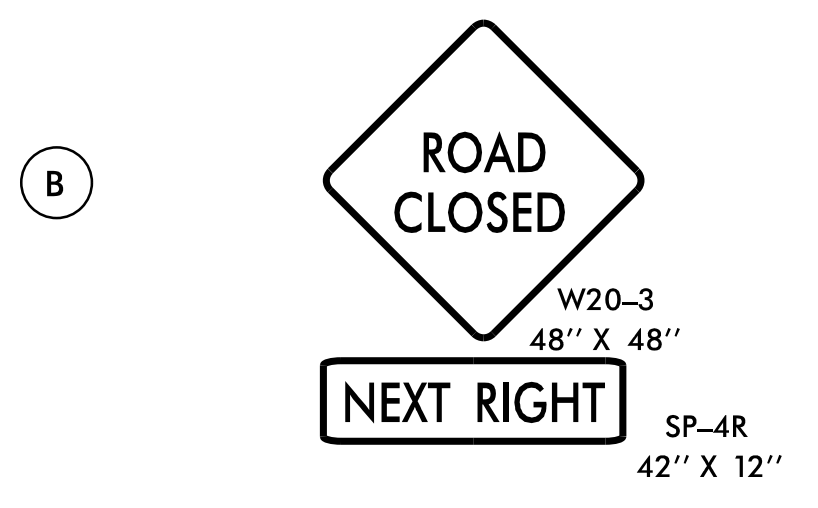
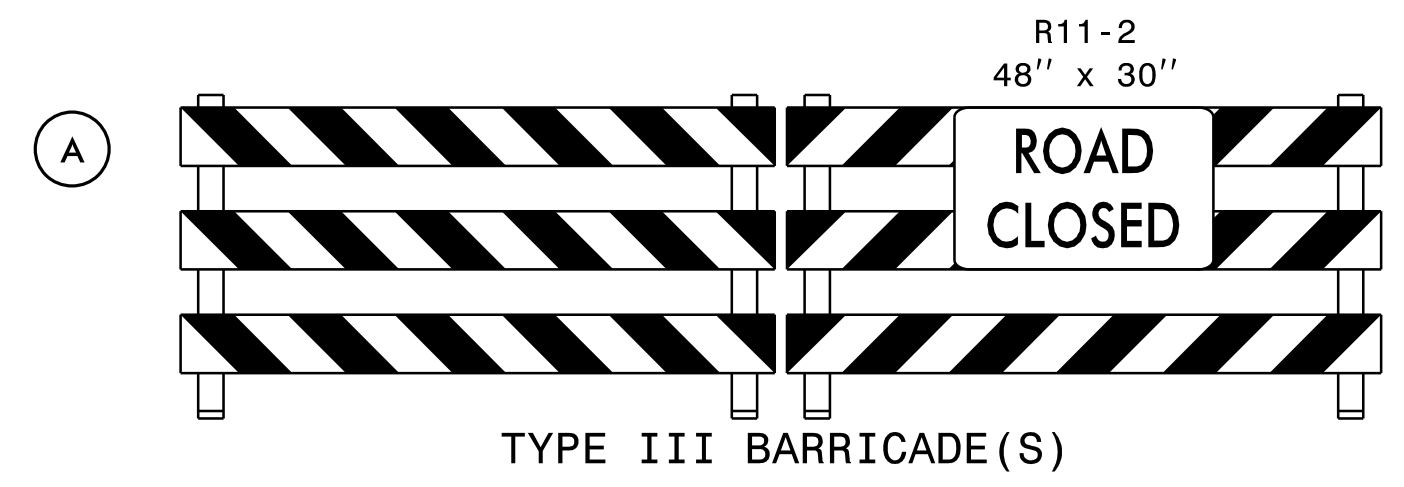
MESSAGE NO. 1	MESSAGE NO. 2
ROAD WORK AHEAD	BEGINNING XX/XX/XX

CHANGEABLE MESSAGE SIGN

MESSAGE NO. 1	MESSAGE NO. 2
ROAD WORK AHEAD	BEGINNING XX/XX/XX

CHANGEABLE MESSAGE SIGN

NOTE: 1. SEE RSD STD 1101.01 FOR WORK ZONE ADVANCED WARNING SIGNS.

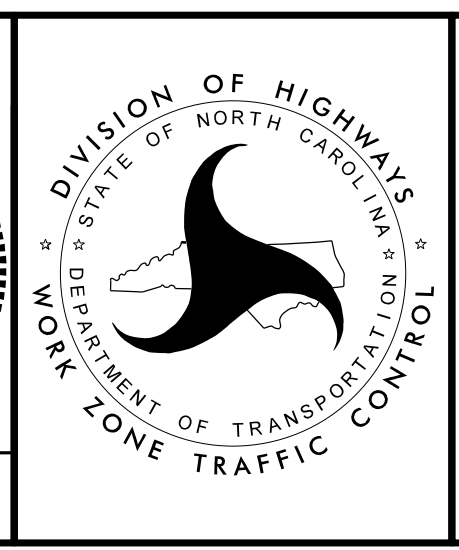


APPROVED: *Claudette M.K. Rogue*
 DATE: 1/29/2019

SEAL

PROFESSIONAL ENGINEER
 CLAUDETTE M.K. ROGUE
 17306

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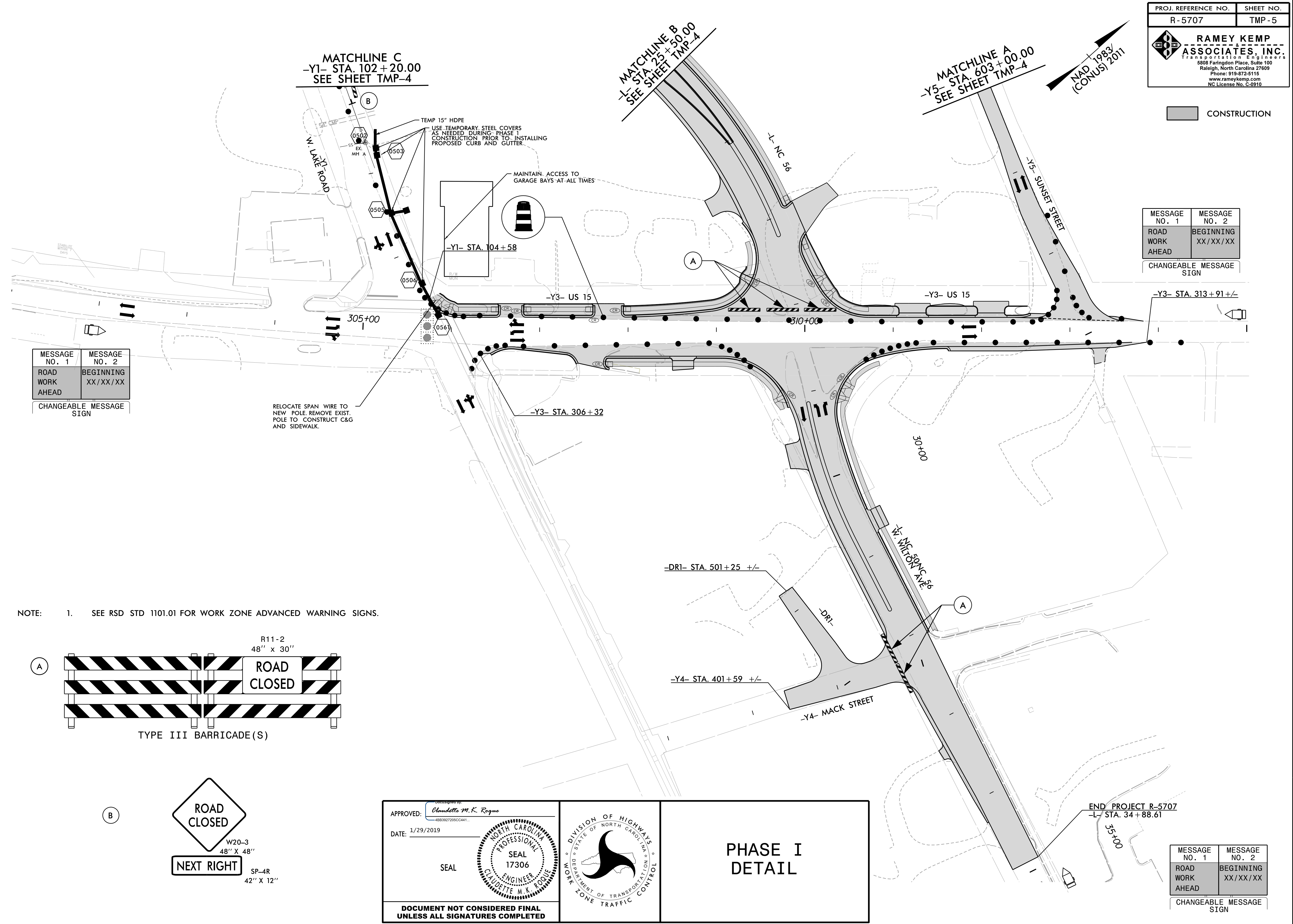


**PHASE I
 DETAIL**

END PROJECT R-5707
 -L- STA. 34 + 88.61

MESSAGE NO. 1	MESSAGE NO. 2
ROAD WORK AHEAD	BEGINNING XX/XX/XX

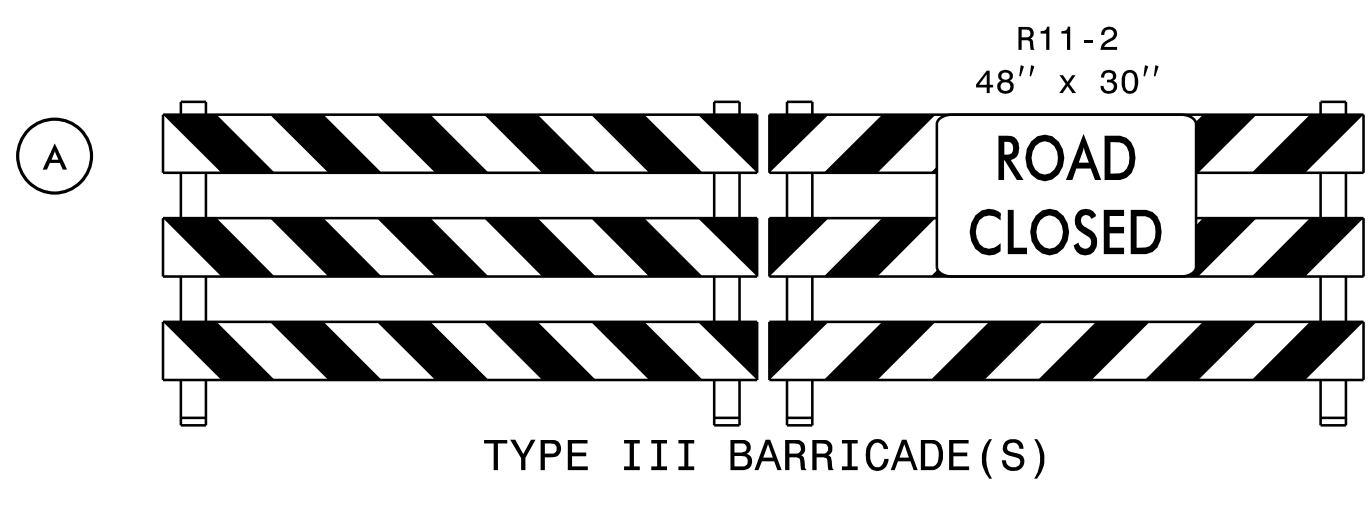
CHANGEABLE MESSAGE SIGN



1/29/2019
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 User: kwise

PROJ. REFERENCE NO. R-5707	SHEET NO. TMP-6
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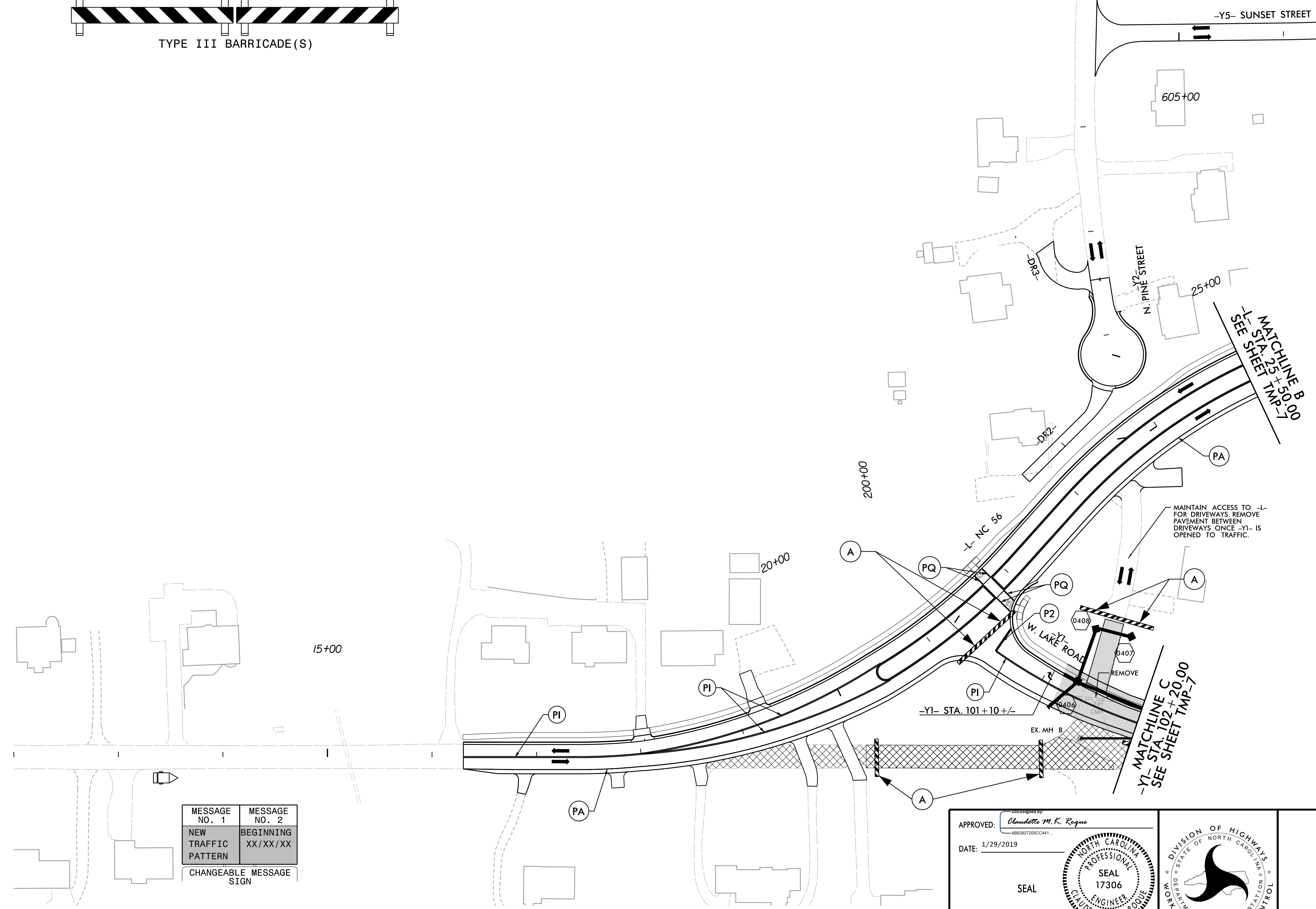
RAMEY KEMP ASSOCIATES, INC.
 Transportation Engineers
 5808 Faringdon Place, Suite 100
 Raleigh, North Carolina 27609
 Phone: 919-872-5115
 www.rameykemp.com
 NC License No. C-9910



(NAD 1983)
(CONUS) 2011

CONSTRUCTION
 PAVEMENT REMOVAL

MATCHLINE A
-Y5- STA. 603+00.00
SEE SHEET TMP-7

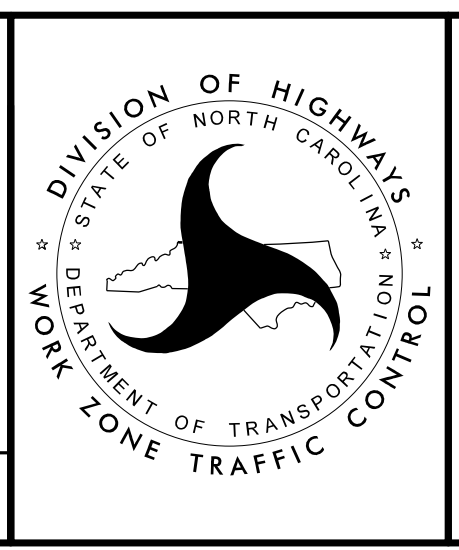


MESSAGE NO. 1	MESSAGE NO. 2
NEW TRAFFIC PATTERN	XX/XX/XX
CHANGEABLE MESSAGE SIGN	

APPROVED: *Charlotte M.K. Rogne*
 DATE: 1/29/2019


SEAL
 PROFESSIONAL ENGINEER
 CLAUDETTE M.K. ROGNE
 17306

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**PHASE II
 DETAIL**

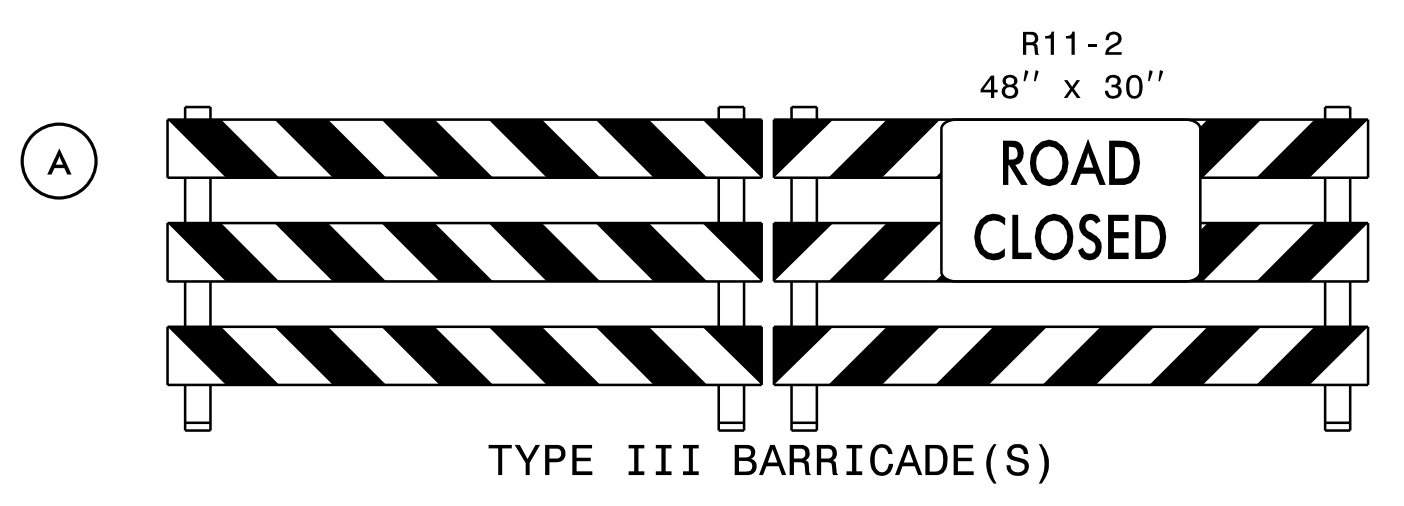
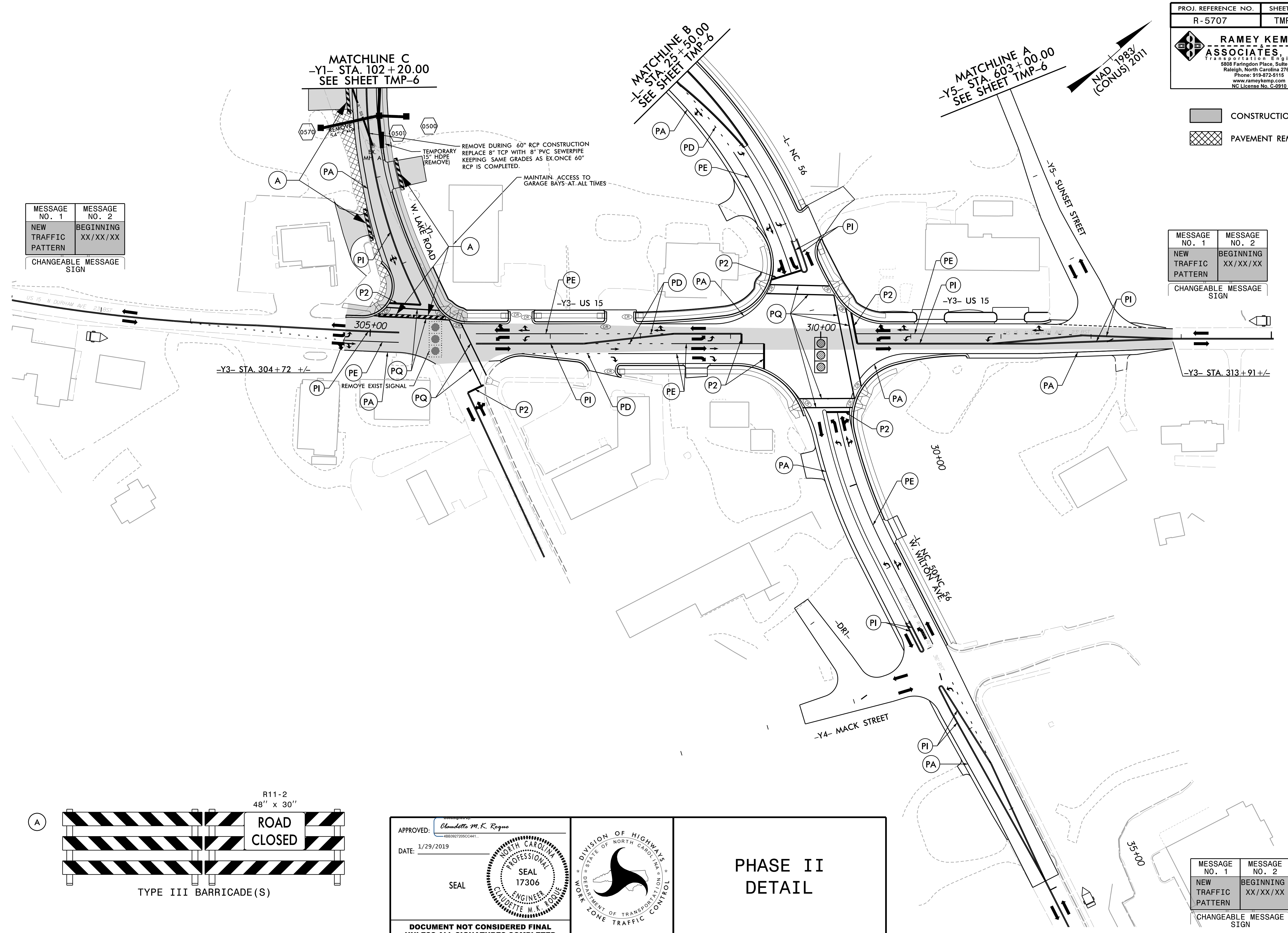
1/29/2019
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PROJ. REFERENCE NO. R-5707	SHEET NO. TMP-7
 RAMEY KEMP ASSOCIATES, INC. Transportation Engineers 5808 Faringdon Place, Suite 100 Raleigh, North Carolina 27609 Phone: 919-872-5115 www.rameykemp.com NC License No. C-9910	

	CONSTRUCTION
	PAVEMENT REMOVAL

MESSAGE NO. 1 NEW TRAFFIC PATTERN	MESSAGE NO. 2 BEGINNING XX/XX/XX
CHANGEABLE MESSAGE SIGN	

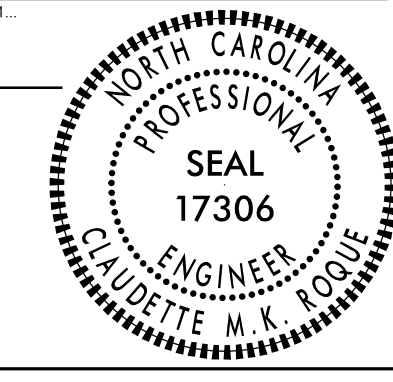
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CHANGEABLE MESSAGE SIGN	



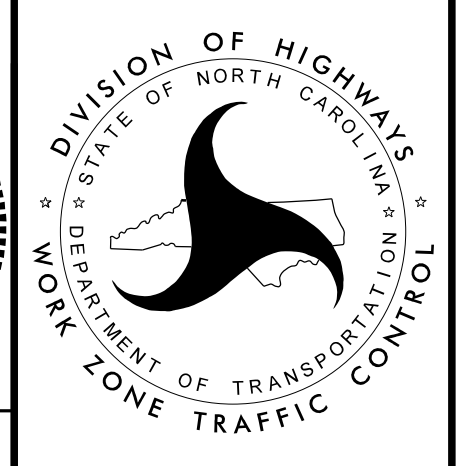
APPROVED: *Claudette M.K. Rogue*
4883927205CC441

DATE: 1/29/2019

SEAL



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PHASE II
DETAIL

MESSAGE NO. 1 NEW TRAFFIC PATTERN	MESSAGE NO. 2 BEGINNING XX/XX/XX
CHANGEABLE MESSAGE SIGN	

1/29/2019
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 User: kwise