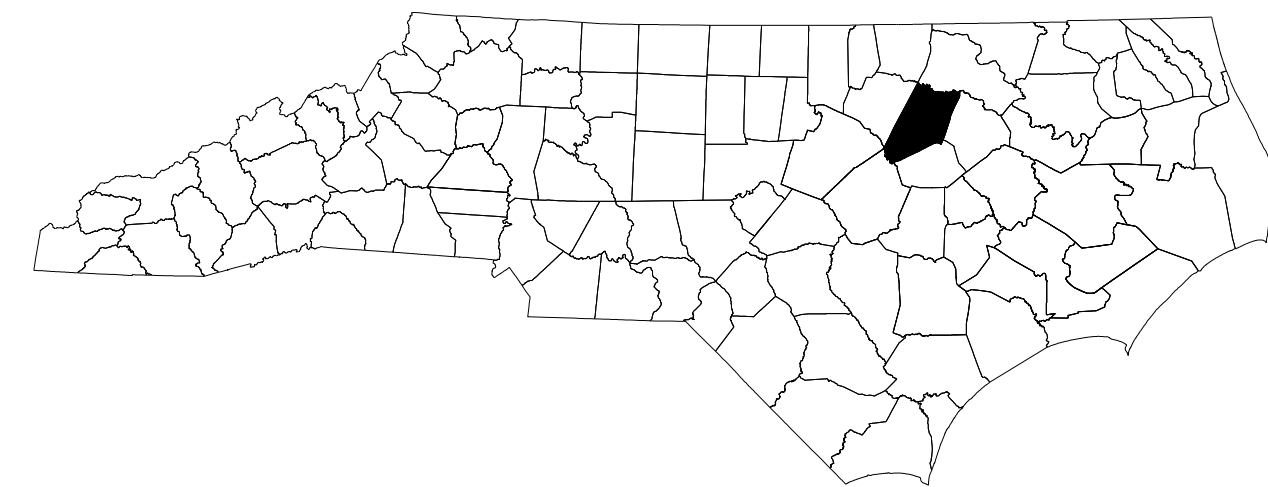
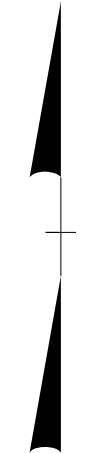


STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

TRANSPORTATION MANAGEMENT PLAN
NASH COUNTY



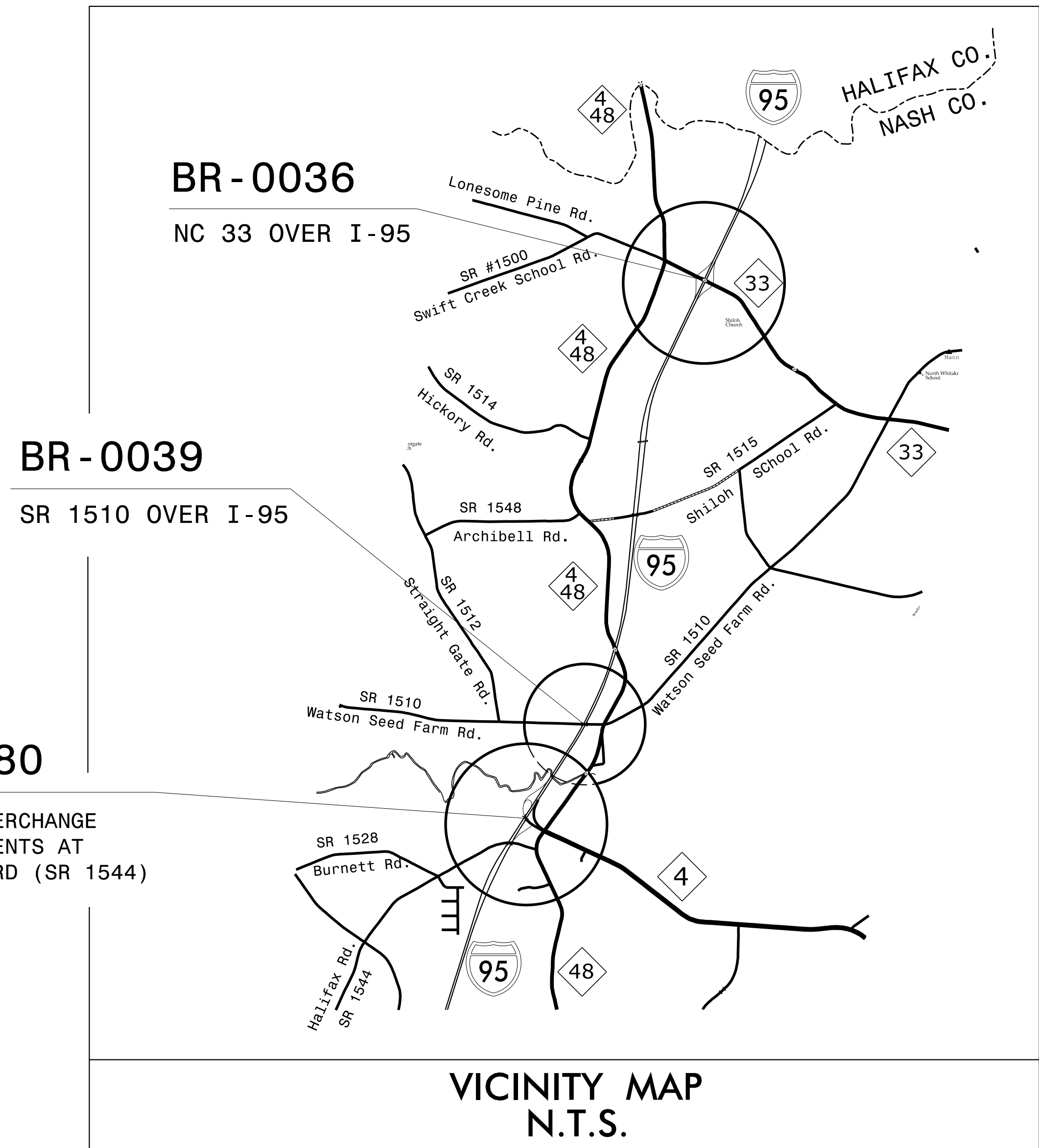
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SUBMITTAL:
 STAGING CONCEPT
 MIDPOINT
 PRE-FINAL
 FINAL



LOCATION:

I-95 BRIDGE REPLACEMENTS AT

- EXIT # 145, NC 4 / 48 HALIFAX RD. (SR 1544) INTERCHANGE,
- SR 1510, WATSON SEED FARM RD. CROSSING,
- EXIT # 150, NC 33 INTERCHANGE



PROJECT NOTES FOR:
B-5980, BR-0039, BR-0036

1. CONCURRENT CONSTRUCTION OF BRIDGES

EACH PROJECT HAS PHASING SPECIFIC TO EACH BRIDGE. HOWEVER, THE COMBINED PROJECTS REQUIRE COORDINATED PHASING BETWEEN THEM IN ORDER TO MEET COMMITMENTS AND PROVIDE THE USE OF BRIDGES FOR OFF-SITE DETOURS.

COORDINATED PROJECT PHASING IS AS FOLLOWS:

1. WORK ON B-5980 SHALL BEGIN FIRST. B-5980 PHASE IV, STEP 1 CANNOT BEGIN UNTIL BR-0036 CONSTRUCTION HAS BEEN COMPLETED AND IS AVAILABLE FOR THE RAMP D OFF-SITE DETOUR.
2. WORK ON BR-0036 SHALL BEGIN AFTER LABOR DAY (SEPTEMBER 7, 2021) AND MUST BE COMPLETED, OPENED TO TRAFFIC AND APPROVED BY THE ENGINEER BEFORE THE FOLLOWING MEMORIAL DAY WEEKEND (MAY 27, 2022).
3. THE B-5980 RAMP D DETOUR SHALL NOT TAKE PLACE CONCURRENTLY WHILE THE BR-0036 DETOUR IS IN EFFECT FOR THE CONSTRUCTION OF THE BRIDGE.

2. OVERLAPPING AND CONCURRENT DEVICES

IF THERE ARE ANY OVERLAPPING OR CONCURRENT DEVICES IN CONFLICT WITH ONE ANOTHER AT ANY TIME DURING CONSTRUCTION OF ANY OF THE PROJECTS, THIS SHOULD BE REMEDIATED IMMEDIATELY. ADAPT THE DEVICES TO MEET FIELD CONDITIONS. MODIFICATION OF DEVICES MAY INCLUDE MOVING, SUPPLEMENTING, COVERING OR REMOVAL OF DEVICES AS DIRECTED BY THE ENGINEER.

ROUTES THAT ARE USED FOR MORE THAN ONE OFF-SITE DETOUR SHALL ONLY BE USED FOR ONE DETOUR AT A TIME.

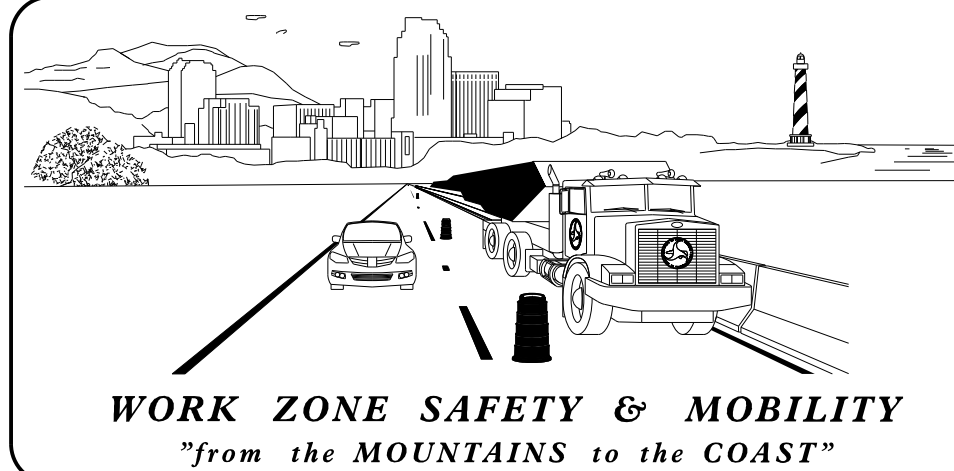
FOR BR-0036 AND BR-0039, OFF-SITE DETOUR SIGNING AT THE B-5980 INTERCHANGE FOR SOUTHBOUND I-95 TRAFFIC MAY NEED TO BE REVISED/ AMENDED TO THE CURRENT RAMP CONFIGURATION AT THE TIME THE DETOUR IS NEEDED.

THE I-95 NIGHTLY DETOURS FOR THE CONSTRUCTION OF BR-0036 AND BR-0039 SHALL NOT TAKE PLACE CONCURRENTLY WITH THE SHORT-TERM DETOUR FOR B-5980 RAMP C.

3. MAINTENANCE OF LONG TERM DEVICES

THE OFF-SITE DETOUR ROUTES USED FOR THE THREE BRIDGE PROJECTS HAVE DETOURS THAT WILL BE UTILIZED FOR VERY LONG PERIODS OF TIME (> ONE YEAR). ALL SIGNING DEVICES SHALL BE VISUALLY INSPECTED ON A REGULAR BASIS TO CONFIRM THAT THE SIGNAGE AND DEVICES ARE STILL IN PLACE AND VISIBLE AND BEING USED AS ORIGINALLY PLACED AND INTENDED. THE RESIDENT ENGINEER SHALL DETERMINE WHAT THE REGULAR BASIS TIME FRAME IS TO INSPECT SIGNS AND DEVICES.

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UNLESS ALL SIGNATURES COMPLETED

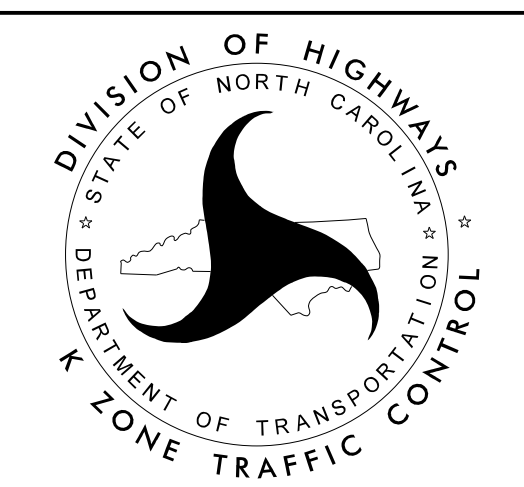


N.C.D.O.T. WORK ZONE TRAFFIC CONTROL
1561 MAIL SERVICE CENTER (MSC) RALEIGH, NC 27699-1561
750 N. GREENFIELD PARKWAY, GARNER, NC 27529 (DELIVERY)
PHONE: (919) 773-2800 FAX: (919) 771-2745

JOSEPH E. HUMMER, PE STATE TRAFFIC MANAGEMENT ENGINEER

J.S. (STEVE) KITE, PE TRAFFIC CONTROL PROJECT ENGINEER

SPENCER B. JENNINGS TRAFFIC CONTROL PROJECT DESIGN ENGINEER



Prepared in the Office of:
AECOM NC FIRM LICENSE No: F-0342 B-5980
701 Corporate Center Drive, Suite 475
Raleigh, NC 27607
(919) 854-6200 - (919) 854-6259(FAX)

Prepared in the Office of:
VAUGHN & MELTON BR-0036
1318-F PATTON AVE. BR-0039
ASHEVILLE NC, 28806
FOR THE NORTH CAROLINA DIVISION OF HIGHWAYS

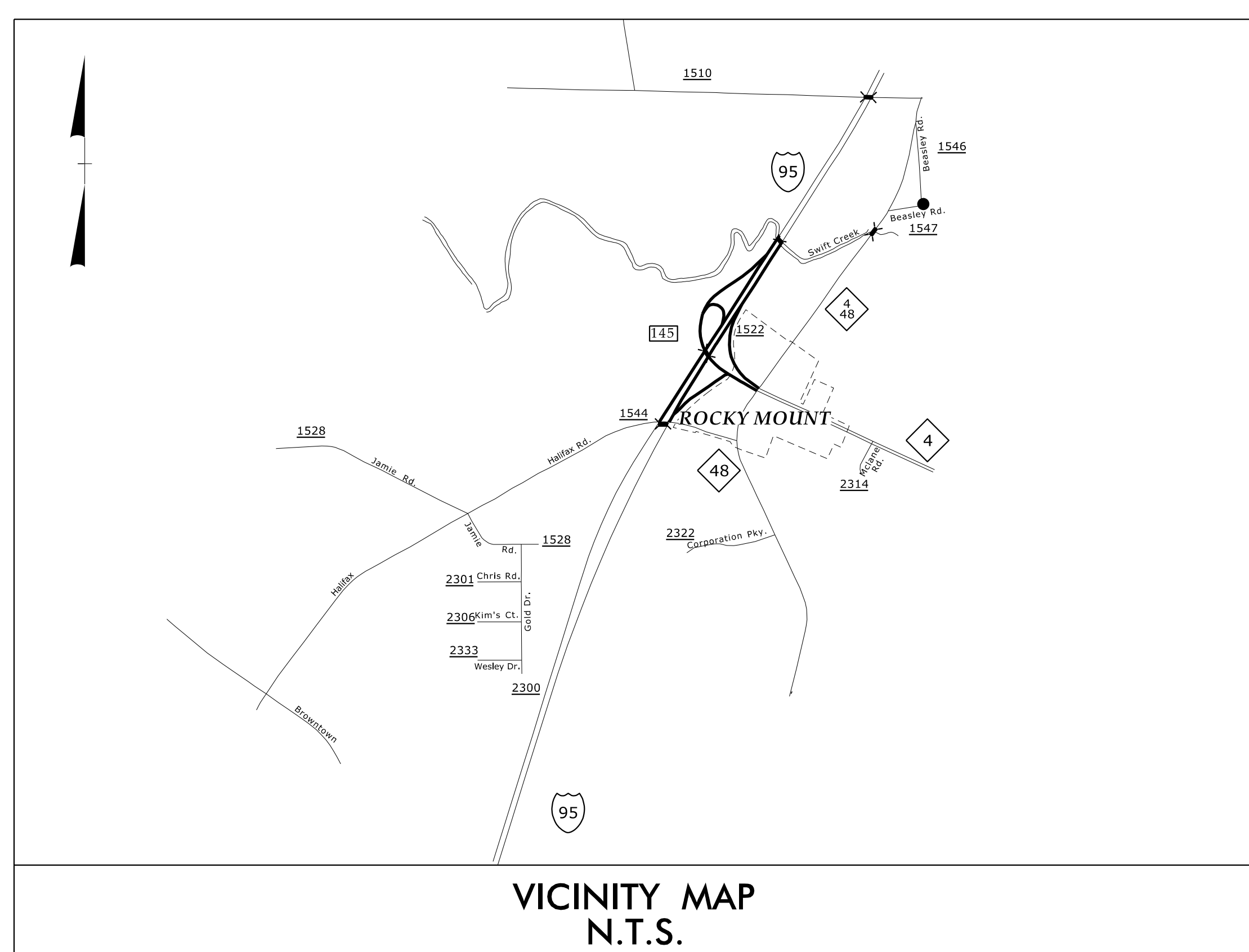
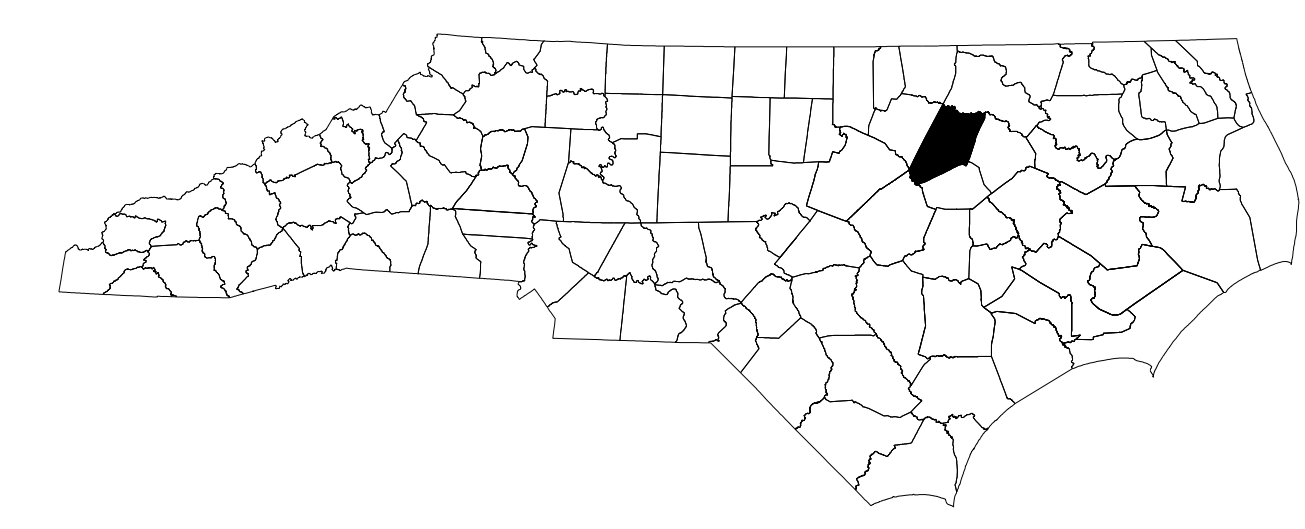
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CONTRACT: C204350 PROJECTS: B-5980, BR-0039, BR-0036

STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

NASH COUNTY

TRANSPORTATION MANAGEMENT PLAN



VICINITY MAP
N.T.S.

LOCATION: I-95 INTERCHANGE IMPROVEMENTS AT HALIFAX ROAD (SR 1522)

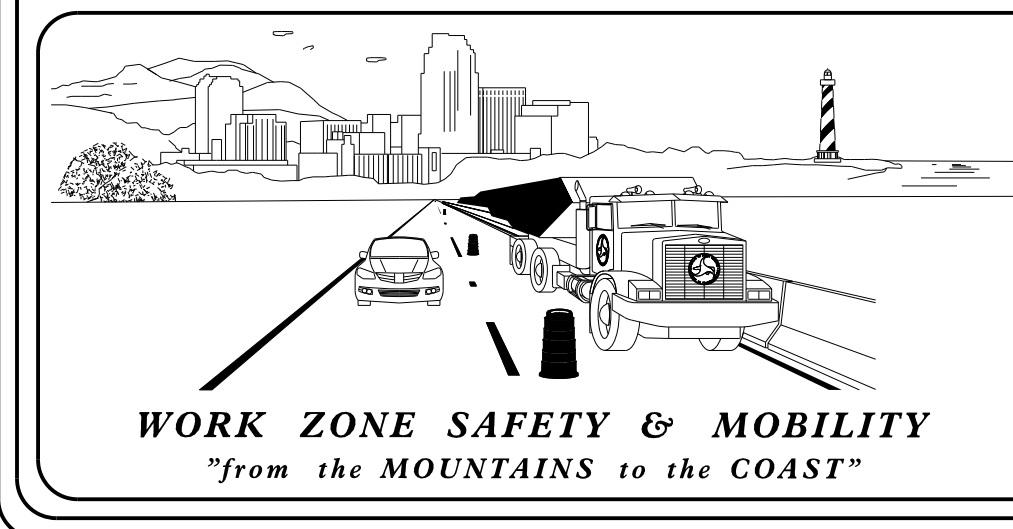
INDEX OF SHEETS

SHEET NO.	TITLE
TMP-01	TITLE SHEET AND INDEX OF SHEETS
TMP-1A	LIST OF APPLICABLE ROADWAY STANDARD DRAWINGS, AND LEGEND.
TMP-2 THRU TMP-2A	GENERAL NOTES
TMP-2B	TEMPORARY SHORING NOTES
TMP-03 THRU TMP-03B	PHASING NOTES
TMP-04	PHASE I OVERVIEW
TMP-05 THRU TMP-12	PHASE I DETAILS
TMP-13 THRU TMP-19	PHASE II DETAILS
TMP-20 THRU TMP-24	PHASE III DETAILS
TMP-25	PHASE IV OVERVIEW
TMP-26 THRU TMP-29	PHASE IV DETAILS

SHEET NO.
TMP-01

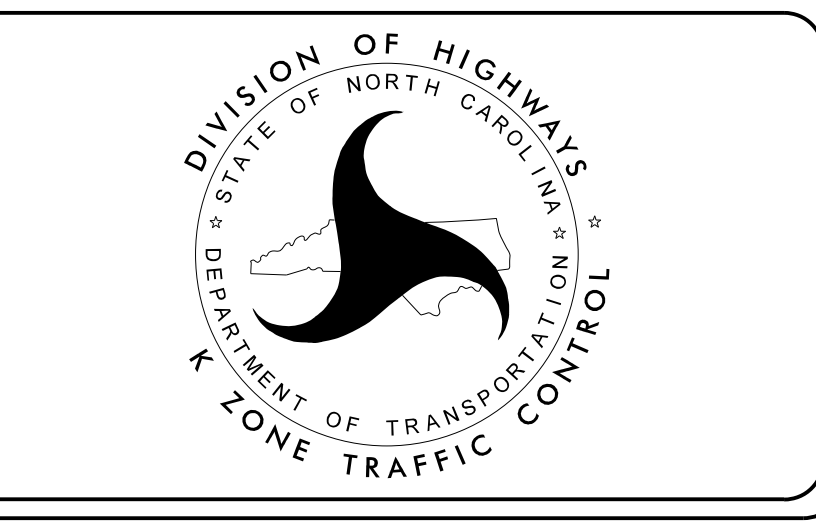
CONTRACT: C204350 TIP PROJECT: B-5980

2/21/2020
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User: jeff.koontz



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TRAFFIC CONTROL DESIGNER



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Prepared in the Office of:
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(919) 854-6200 (919) 854-6259(FAX)

JEFFREY KOONTZ, PE PROJECT ENGINEER
KASEY MCCOY DESIGNER
DESIGN TECH

APPROVED: *Jeffrey H. Koontz*
DATE: 4/15/2020

SEAL
JEFFREY KOONTZ
ENGINEER
018122
NORTH CAROLINA
PROFESSIONAL

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
1115.01	FLASHING ARROW BOARDS
1130.01	DRUMS
1135.01	CONES
1145.01	BARRICADES
1150.01	FLAGGING DEVICES
1160.01	TEMPORARY CRASH CUSHION
1165.01	TRUCK MOUNTED ATTENUATOR
1170.01	PORTABLE CONCRETE BARRIER
1180.01	SKINNY DRUMS
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
1205.04	PAVEMENT MARKINGS - INTERSECTIONS
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)
1261.01	GUARDRAIL AND BARRIER DELINEATORS - INSTALLATION SPACING
1261.02	GUARDRAIL AND BARRIER DELINEATORS - TYPES AND MOUNTING
1262.02	GUARDRAIL END DELINEATION

GENERAL

- DIRECTION OF TRAFFIC FLOW
- EXIST. PVMT.
- NORTH ARROW
- PROPOSED PVMT.

- WORK ZONE
- WEDGING & WIDENING
- PAVEMENT / BRIDGE REMOVAL

- ~~~~~ TEMPORARY SHORING
- TEMPORARY SHORING (STANDARD TEMPORARY WALL)

TRAFFIC CONTROL DEVICES

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

TEMPORARY SIGNING

- PORTABLE SIGN
- STATIONARY SIGN
- STATIONARY OR PORTABLE SIGN

SIGNALS

- EXISTING
- PROPOSED
- TEMPORARY

LEGEND

TEMPORARY PAVEMENT MARKING

TEMPORARY PAVEMENT MARKING (PAINT)	
PA	WHITE EDGE LINE (4")
PB	YELLOW EDGE LINE (4")
PD	3'-9' WHITE MINI SKIP (4")
PE	WHITE SOLID LANE LINE (4")
PI	YELLOW DOUBLE CENTERLINE (4")
PN	WHITE GORELINE (8")
P8	2 FT.-6 FT./SP WHITE MINISKIP(4")
P2	WHITE STOP BAR (24")
QA	LEFT TURN ARROW
QB	RIGHT TURN ARROW
QC	STRAIGHT ARROW
QQ	RAMP ARROW

PAVEMENT MARKINGS

- EXISTING LINES
- TEMPORARY LINES

PAVEMENT MARKERS

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

PAVEMENT MARKING SYMBOLS

- PAVEMENT MARKING SYMBOLS

5/6/2021
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 User:jeff.koontz

APPROVED: _____ DATE: _____			<h2 style="margin: 0;">ROADWAY STANDARD DRAWINGS & LEGEND</h2>
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED			

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-95 AND RAMP	MONDAY-THURSDAY 7:00 AM TO 8:00 PM
I-95 AND RAMP	FRIDAY-SUNDAY 7:00 AM TO 10:00 PM
NC 4 & NC 48	MONDAY-FRIDAY 7:00 AM-9:00 AM & 4:00 PM-6:00 PM
ALL OTHERS	MONDAY-FRIDAY 7:00 AM-9:00 AM & 4:00 PM-6:00 PM

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

ROAD NAME	DAY AND TIME RESTRICTIONS
I-95 AND RAMP	
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 7:00 A.M. DECEMBER 31st TO 10:00 P.M. JANUARY 2ND. IF NEW YEAR'S DAY IS ON A FRIDAY, SATURDAY, SUNDAY, OR MONDAY THEN UNTIL 10:00 P.M. THE FOLLOWING TUESDAY.	
3. FOR EASTER, BETWEEN THE HOURS OF 7:00 A.M. THURSDAY AND 10:00 P.M. MONDAY.	
4. FOR MEMORIAL DAY, BETWEEN THE HOURS OF 7:00 A.M. FRIDAY TO 10:00 P.M. TUESDAY.	
5. FOR INDEPENDENCE DAY, BETWEEN THE HOURS OF 7:00 A.M. THE DAY BEFORE INDEPENDENCE DAY AND 10:00 P.M. THE DAY AFTER INDEPENDENCE DAY.	
IF INDEPENDENCE DAY IS ON A FRIDAY, SATURDAY, SUNDAY OR MONDAY THEN BETWEEN THE HOURS OF 7:00 A.M. THE THURSDAY BEFORE INDEPENDENCE DAY AND 10:00 P.M. THE TUESDAY AFTER INDEPENDENCE DAY.	
6. FOR LABOR DAY, BETWEEN THE HOURS OF 7:00 A.M. FRIDAY AND 10:00 P.M. TUESDAY.	
7. FOR THANKSGIVING DAY, BETWEEN THE HOURS OF 7:00 A.M. TUESDAY TO 10:00 P.M. MONDAY.	
8. FOR CHRISTMAS, BETWEEN THE HOURS OF 7:00 A.M. THE FRIDAY BEFORE THE WEEK OF CHRISTMAS DAY AND 10:00 P.M. THE FOLLOWING TUESDAY AFTER THE WEEK OF CHRISTMAS.	

ROAD NAME	DAY AND TIME RESTRICTIONS
ALL OTHERS	
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 7:00 A.M. DECEMBER 31st TO 6:00 P.M. JANUARY 2ND. IF NEW YEAR'S DAY IS ON A FRIDAY, SATURDAY, SUNDAY, OR MONDAY THEN UNTIL 6:00 P.M. THE FOLLOWING TUESDAY.	
3. FOR EASTER, BETWEEN THE HOURS OF 7:00 A.M. THURSDAY AND 6:00 P.M. MONDAY.	

- FOR MEMORIAL DAY, BETWEEN THE HOURS OF 7:00 A.M. FRIDAY TO 6:00 P.M. TUESDAY.
- FOR INDEPENDENCE DAY, BETWEEN THE HOURS OF 7:00 A.M. THE DAY BEFORE INDEPENDENCE DAY AND 6:00 P.M. THE DAY AFTER INDEPENDENCE DAY.

IF INDEPENDENCE DAY IS ON A FRIDAY, SATURDAY, SUNDAY OR MONDAY THEN BETWEEN THE HOURS OF 7:00 A.M. THE THURSDAY BEFORE INDEPENDENCE DAY AND 6:00 P.M. THE TUESDAY AFTER INDEPENDENCE DAY.
- FOR LABOR DAY, BETWEEN THE HOURS OF 7:00 A.M. FRIDAY AND 6:00 P.M. TUESDAY.
- FOR THANKSGIVING DAY, BETWEEN THE HOURS OF 7:00 A.M. TUESDAY TO 6:00 P.M. MONDAY.
- FOR CHRISTMAS, BETWEEN THE HOURS OF 7:00 A.M. THE FRIDAY BEFORE THE WEEK OF CHRISTMAS DAY AND 6:00 P.M. THE FOLLOWING TUESDAY AFTER THE WEEK OF CHRISTMAS.

C) DO NOT CLOSE ROADS AS FOLLOWS:

ROAD NAME	DAY AND TIME RESTRICTIONS
I-95 AND RAMP	MONDAY THROUGH THURSDAY 5:00 AM - 11:00 PM
I-95 AND RAMP	FRIDAY THROUGH SUNDAY 5:00 AM - 11:59 PM

D) DO NOT STOP TRAFFIC AS FOLLOWS:

ROAD NAME	DAY AND TIME RESTRICTIONS	DURATION AND OPERATION
I-95	MON-THURS 5:00 AM - 11:00 PM	30 MIN/ GIRDER REMOVAL & INSTALL
I-95	FRI-SUN 5:00 AM - 11:59 PM	30 MIN/ GIRDER REMOVAL & INSTALL
NC 4 & NC 48	MON-FRI 7:00 AM-9:00 AM & 4:00 PM-6:00 PM	15 MIN PAVING & MARKING
NC 4	MON-FRI 7:00 AM-9:00 AM & 4:00 PM-6:00 PM	15 MIN OH SIGNS
ALL OTHERS	MON-FRI 7:00 AM-9:00 AM & 4:00 PM-6:00 PM	15 MIN PAVING & MARKING

E) DO NOT CONDUCT SINGLE VEHICLE HAULING AS FOLLOWS; INGRESS AND EGRESS FROM RAMP WILL NOT BE ALLOWED:

ROAD NAME	DAY AND TIME RESTRICTIONS
I-95 AND RAMP	MONDAY-THURSDAY 7:00 AM TO 8:00 PM
I-95 AND RAMP	FRIDAY-SUNDAY 7:00 AM TO 10:00 PM
ALL OTHER ROADS	MONDAY-FRIDAY 7:00 AM-9:00 AM & 4:00 PM-6:00 PM

F) DO NOT CONDUCT MULTI-VEHICLE HAULING AS FOLLOWS; INGRESS AND EGRESS FROM RAMP WILL NOT BE ALLOWED:

ROAD NAME	DAY AND TIME RESTRICTIONS
I-95 AND RAMP	MONDAY-THURSDAY 7:00 AM TO 8:00 PM
I-95 AND RAMP	FRIDAY-SUNDAY 7:00 AM TO 10:00 PM
ALL OTHER ROADS	MONDAY-FRIDAY 7:00 AM-9:00 AM & 4:00 PM-6:00 PM

G) 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

- 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.
- 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.
- 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.

- 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.
- 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

M) 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.

N) 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) 350 FT IN ADVANCE AND A MINIMUM OF EVERY HALF MILE THROUGHOUT THE UNEVEN AREA.

TRAFFIC PATTERN ALTERATIONS

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

SIGNING

- 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.
- 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.
- 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.
- ENSURE ALL NECESSARY SIGNING IS IN PLACE PRIOR TO ALTERING ANY TRAFFIC PATTERN.
- INSTALL BLACK ON ORANGE "DIP" SIGNS (W8-2) AND/OR "BUMP" SIGNS (W8-1) 350 FT IN ADVANCE OF THE UNEVEN AREA, OR AS DIRECTED BY THE ENGINEER.

TRAFFIC BARRIER

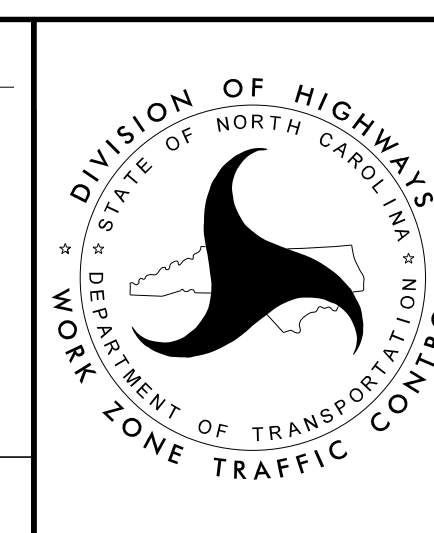
U) INSTALL TEMPORARY BARRIER ACCORDING TO THE TRANSPORTATION MANAGEMENT PLANS A MAXIMUM OF TWO (2) WEEKS PRIOR TO BEGINNING WORK IN ANY LOCATION. ONCE TEMPORARY BARRIER IS INSTALLED AT ANY LOCATION PROCEED IN A CONTINUOUS MANNER TO COMPLETE THE PROPOSED WORK IN THAT LOCATION UNLESS OTHERWISE STATED IN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

APPROVED: *Jeffrey A. Koontz*
 DATE: 4/15/2020

DocuSigned by:
 Jeffrey A. Koontz
 84EBFECC02284F7

SEAL
 018122
 ENGINE EX.
 JEFFREY A. KOONTZ

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



GENERAL NOTES

GENERAL NOTES

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.

V) 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

W) 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.

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

Y) 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

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

ROAD NAME	MARKING	MARKER
ALL ROADS (ASPHALT)	PAINT	TEMPORARY RAISED
(CONCRETE)	COLD APPLIED PLASTIC (TYPE IV)	TEMPORARY RAISED

AA) 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.

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

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

DD) TRACE THE EXISTING AND PROPOSED MONOLITHIC ISLAND LOCATIONS WITH PROPER COLOR PAVEMENT MARKINGS PRIOR TO THE INSTALLATION. PLACE DRUMS TO DELINEATE ANY PROPOSED MONOLITHIC ISLANDS BEFORE INSTALLATION.


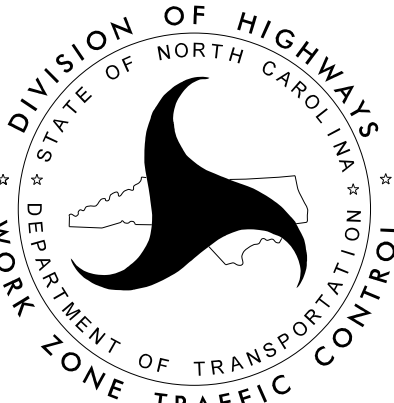
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EE) LAW ENFORCEMENT MAY BE USED TO MAINTAIN TRAFFIC THROUGH THE WORK AREA AND/OR INTERSECTIONS AS DIRECTED BY THE ENGINEER.

FF) 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) 200 AND 400 RESPECTIVELY IN ADVANCE OF THE UNEVEN AREAS. USE DRUMS TO DELINEATE THE EDGE OF ROADWAY ALONG UNPAVED AREAS.

GG) NASH COUNTY SCHOOLS AND LOCAL POLICE AND EMERGENCY SERVICES SHOULD BE NOTIFIED OF PROJECT CONSTRUCTION AT LEAST ONE MONTH PRIOR TO BEGINNING CONSTRUCTION.

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DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED			

TEMPORARY SHORING NOTES

TEMPORARY SHORING NO. ① (SEE SHEET TMP-05)

FOR TEMPORARY SHORING AND POSITIVE PROTECTION FOR TEMPORARY SHORING, SEE PLANS AND TEMPORARY SHORING PROVISION.

BEFORE BEGINNING TEMPORARY SHORING DESIGN OR CONSTRUCTION, SURVEY EXISTING GROUND ELEVATIONS IN THE VICINITY OF SHORING LOCATIONS TO DETERMINE ACTUAL SHORING HEIGHTS.

DESIGN TEMPORARY SHORING FROM STATION -L1- 51+07, 24 FT RT, TO STATION -L1- 51+69, 24 FT RT, FOR THE FOLLOWING ASSUMED SOIL PARAMETERS AND GROUNDWATER ELEVATION:
 UNIT WEIGHT (γ) = 120 PCF
 FRICTION ANGLE (ϕ) = 30 DEGREES
 COHESION (c) = 0 PSF
 GROUNDWATER ELEVATION = 129.1 FT

DO NOT USE A TEMPORARY WALL FOR TEMPORARY SHORING FROM STATION -L1- 51+07, 24 FT RT, TO STATION -L1- 51+69, 24 FT RT.

AT THE CONTRACTOR'S OPTION, USE STANDARD TEMPORARY SHORING FOR TEMPORARY SHORING FROM STATION -L1- 51+07, 24 FT RT, TO STATION -L1- 51+69, 24 FT RT. SEE GEOTECHNICAL STANDARD DETAIL NO. 1801.01 FOR STANDARD TEMPORARY SHORING.

TEMPORARY SHORING NO. ③ (SEE SHEET TMP-13)

FOR TEMPORARY SHORING AND POSITIVE PROTECTION FOR TEMPORARY SHORING, SEE PLANS AND TEMPORARY SHORING PROVISION.

BEFORE BEGINNING TEMPORARY SHORING DESIGN OR CONSTRUCTION, SURVEY EXISTING GROUND ELEVATIONS IN THE VICINITY OF SHORING LOCATIONS TO DETERMINE ACTUAL SHORING HEIGHTS.

DESIGN TEMPORARY SHORING FROM STATION -RPC_DET- 10+75, 37 FT RT, TO STATION -RPC_DET- 14+16, 21 FT RT, FOR THE FOLLOWING ASSUMED SOIL PARAMETERS AND GROUNDWATER ELEVATION:
 UNIT WEIGHT (γ) = 120 PCF
 FRICTION ANGLE (ϕ) = 30 DEGREES
 COHESION (c) = 0 PSF
 GROUNDWATER ELEVATION = 130.0 FT

DO NOT USE CANTILEVER, BRACED and/or ANCHORED SHORING FOR TEMPORARY SHORING FROM STATION -RPC_DET- 10+75, 37 FT RT, TO STATION -RPC_DET- 14+16, 21 FT RT.

AT THE CONTRACTOR'S OPTION, USE A STANDARD TEMPORARY WALL FOR TEMPORARY SHORING FROM STATION -RPC_DET- 10+75, 37 FT RT, TO STATION -RPC_DET- 14+16, 21 FT RT. SEE GEOTECHNICAL STANDARD DETAIL NO. 1801.02 FOR STANDARD TEMPORARY WALLS.

WHEN BACKFILL FOR RETAINING WALLS and/or BRIDGE APPROACH FILLS OVERLAPS WITH THE REINFORCED ZONE OF TEMPORARY WALLS, USE SHORING BACKFILL OR BACKFILL MATERIAL REQUIRED FOR RETAINING WALLS and/or BRIDGE APPROACH FILLS, WHICHEVER IS BETTER, IN THE REINFORCED ZONE OF TEMPORARY WALLS.

TEMPORARY SHORING NO. ② (SEE SHEET TMP-05)

FOR TEMPORARY SHORING AND POSITIVE PROTECTION FOR TEMPORARY SHORING, SEE PLANS AND TEMPORARY SHORING PROVISION.

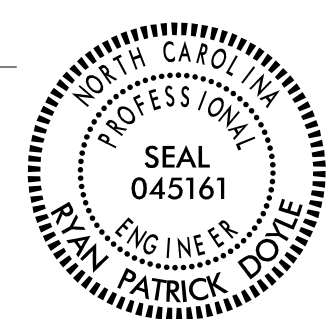

BEFORE BEGINNING TEMPORARY SHORING DESIGN OR CONSTRUCTION, SURVEY EXISTING GROUND ELEVATIONS IN THE VICINITY OF SHORING LOCATIONS TO DETERMINE ACTUAL SHORING HEIGHTS.

DESIGN TEMPORARY SHORING FROM STATION -L1- 51+07, 38 FT RT, TO STATION -L1- 51+69, 38 FT RT, FOR THE FOLLOWING ASSUMED SOIL PARAMETERS AND GROUNDWATER ELEVATION:
 UNIT WEIGHT (γ) = 120 PCF
 FRICTION ANGLE (ϕ) = 30 DEGREES
 COHESION (c) = 0 PSF
 GROUNDWATER ELEVATION = 129.1 FT

DO NOT USE A TEMPORARY WALL FOR TEMPORARY SHORING FROM STATION -L1- 51+07, 38 FT RT, TO STATION -L1- 51+69, 38 FT RT.

AT THE CONTRACTOR'S OPTION, USE STANDARD TEMPORARY SHORING FOR TEMPORARY SHORING FROM STATION -L1- 51+07, 38 FT RT, TO STATION -L1- 51+69, 38 FT RT. SEE GEOTECHNICAL STANDARD DETAIL NO. 1801.01 FOR STANDARD TEMPORARY SHORING.

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APPROVED: <i>Jeffrey D. Koontz</i> <small>4/15/2020</small> 		TEMPORARY SHORING NOTES
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED		

PROJ. REFERENCE NO.	SHEET NO.
B-5980	TMP-03

PHASE I

STEP 1) PRIOR TO ANY CONSTRUCTION ACTIVITY, INSTALL WORK ZONE ADVANCE WARNING SIGNS ON ALL ROADS INVOLVED (I-95, NC 4, NC 48, HALIFAX ROAD (SR 1544) ACCORDING TO THE ROADWAY STANDARD DRAWING 1101.01.

STEP 2) WORKING AWAY FROM TRAFFIC, CONSTRUCT ROADWAY AND DRAINAGE FOR ROUNDABOUT 1, RAMP A, B, AND D, -Y1- AND -Y2- (SR 1544 HALIFAX ROAD) UP TO BUT NOT INCLUDING THE FINAL LAYER OF SURFACE COURSE ACCORDING TO THE FOLLOWING STATIONS (SEE OVERVIEW ON TMP-04 AND DETAILS ON TMP-05 THRU TMP-07):

- RAB1- STA. 10+00 +/- TO STA. 13+95 +/-
- Y1- STA. 20+50 +/- TO STA. 41+72 +/- (BEGIN BRIDGE)
- Y1- STA. 44+03 +/- (END BRIDGE) TO STA. 45+00 +/-
- Y2- STA. 10+12 +/- TO STA. 11+12 +/-
- RPA- STA. 27+25 +/- TO STA. 31+49 +/-
- RPB- STA. 16+50 +/- TO STA. 23+66 +/-

AND WORKING AWAY FROM TRAFFIC OR USING RSD 1101.02 (SHT 3 OF 14) FOR TEMPORARY LANE CLOSURES, GRADE RAMP D UP TO EXISTING RAMP SHOULDER ACCORDING TO THE FOLLOWING STATIONS; (SEE TMP-05):

- RPD- STA. 15+90 +/- TO STA. 20+65 +/-

AND WORK BEHIND EXISTING GUARDRAIL FOR TRENCHLESS PIPE INSTALLATION UNDER I-95.

STEP 3) WORKING AWAY FROM TRAFFIC OR DURING NIGHT TIME ALLOWABLE LANE CLOSURE HOURS USING RSD 1101.02 (SHEET 4 OF 14) FOR TEMPORARY OUTSIDE LANE CLOSURE OF I-95, CREATE THE MEDIAN GUARDRAIL BREAK (SEE TMP-05A) AND CONSTRUCT THE -Y1- BRIDGE OVER I-95, INCLUDING TEMPORARY SHORING IN MEDIAN, ACCORDING TO THE FOLLOWING STATIONS (SEE TMP-05):

- Y1- STA. 41+72 +/- TO STA. 44+03 +/- (BRIDGE)

-Y1- GIRDER INSTALLATION OVER NORTHBOUND I-95

WORKING ON CONSECUTIVE NIGHTS DURING ALLOWABLE CLOSURE HOURS, INSTALL GIRDERS OVER NORTHBOUND I-95 (-L1-) AS FOLLOWS:

USE RSD 1101.03 (SHEET 9 OF 9) WITH ROLLING ROADBLOCK FOR TEMPORARY ROAD CLOSURE OF NORTHBOUND I-95 AT -Y1- BRIDGE.

SET ALL -Y1- BRIDGE GIRDERS OVER THE NORTHBOUND LANES OF I-95 (-L1-).

AT THE END OF EACH NIGHT, OPEN NORTHBOUND LANES OF I-95 TO TRAFFIC.

-Y1- GIRDER INSTALLATION OVER SOUTHBOUND I-95

WORKING ON CONSECUTIVE NIGHTS DURING ALLOWABLE CLOSURE HOURS, INSTALL GIRDERS OVER SOUTHBOUND I-95 (-L2-) AS FOLLOWS:

USE RSD 1101.03 (SHEET 9 OF 9) WITH ROLLING ROADBLOCK FOR TEMPORARY ROAD CLOSURE OF SOUTHBOUND I-95 AT -Y1- BRIDGE.

SET ALL -Y1- BRIDGE GIRDERS OVER THE SOUTHBOUND LANES OF I-95 (-L2-).

AT THE END OF EACH NIGHT, OPEN SOUTHBOUND LANES OF I-95 TO TRAFFIC.

STEP 4) USING RSD 1101.02 (SHEETS 1 AND 3 OF 14) WITH FLAGGERS AND POLICE FOR TEMPORARY LANE CLOSURES CONSTRUCT NC 4 (-Y1-) AND NC 48 (-Y3-) UP TO, BUT NOT INCLUDING THE FINAL LAYER OF SURFACE COURSE, ACCORDING TO THE FOLLOWING STATIONS (SEE TMP-08):

- Y1- STA. 52+50 +/- TO STA. 54+55 +/- (WEDGING/OVERLAY)
- Y3- STA. 21+28 +/- TO STA. 26+38 +/-

AND INSTALL AND COVER TEMPORARY SIGNAL AT NC 4/NC 48 INTERSECTION.

STEP 5) USING RSD 1101.02 (SHEETS 1 AND 3 OF 14) WITH FLAGGERS FOR TEMPORARY LANE CLOSURES AND RSD 1205.01, 1205.02, 1205.04, 1205.05, 1205.08, AND 1205.09 PLACE TEMPORARY PAVEMENT MARKING (PAINT) AND MARKERS (TEMP RAISED) FOR TEMPORARY PATTERN ON NC 4 (-Y1-) AND FINAL PATTERN ON NC 48 (-Y3-) ACCORDING TO THE FOLLOWING STATIONS (SEE TMP-09):

- Y1- STA. 53+32 +/- TO STA. 55+80 +/-
- Y3- STA. 19+97 +/- TO STA. 26+38 +/-

UNCOVER AND ACTIVATE TEMPORARY SIGNAL AND SHIFT TRAFFIC INTO TEMPORARY PATTERN ON NC 4 AND FINAL PATTERN ON NC 48.

STEP 6) INSTALL AND COVER OFF-SITE DETOUR SIGNS FOR SR 1544 (HALIFAX ROAD) (SEE TMP-10A).

USING RSD 1101.02 (SHT 1 OF 14) AND FLAGGERS FOR TEMPORARY LANE CLOSURE WITH ALTERNATING TRAFFIC, PLACE 2" LAYER OF SURFACE COURSE ON THE HALIFAX ROAD BRIDGE OVER I-95.

INTERMEDIATE CONTRACT TIME

COMPLETE THE FOLLOWING WORK OF PHASE I, STEP 7 FOR -Y1- AND -Y2- HALIFAX ROAD IN ACCORDANCE WITH THE INTERMEDIATE CONTRACT TIME OF 14 CONSECUTIVE DAYS (SEE SPECIAL PROVISIONS).

STEP 7) PLACE BARRICADES FOR ROAD CLOSURE, UNCOVER DETOUR SIGNS AND SHIFT SR 1544 HALIFAX TRAFFIC ON TO DETOUR (SEE TMP-10A).

CONSTRUCT -Y1- AND -Y2- UP TO, BUT NOT INCLUDING THE FINAL LAYER OF SURFACE COURSE ACCORDING TO THE FOLLOWING STATIONS (SEE TMP-10):

- Y1- STA. 15+00 +/- TO STA. 20+50 +/-
- Y2- STA. 10+20 +/- TO STA. 13+59 +/-

USING RSD 1205.01, 1205.02, AND 1205.04 PLACE TEMPORARY PAVEMENT MARKING (PAINT) AND MARKERS (TEMP RAISED) ON SR 1544 (-Y1- AND -Y2-) IN THE FINAL PATTERN ACCORDING TO THE FOLLOWING STATIONS (SEE TMP-10 AND PAVEMENT MARKING PLANS):

- Y1- STA. 15+00 +/- TO STA. 38+67 +/- (AT -RAB1-)
- Y2- STA. 11+12 +/- TO STA. 13+59 +/-

REMOVE OFF-SITE BARRICADES AND DETOUR SIGNS AND SHIFT SR 1544 (HALIFAX ROAD) TRAFFIC INTO NEW TEMPORARY PATTERN (SEE TMP-12)

STEP 8) PLACE DRUMS TO CLOSE OUTSIDE LANE OF SOUTHBOUND I-95 EXIT RAMP AND MAINTAIN RAMP TRAFFIC IN THE INSIDE RAMP LANE THROUGH THE WORK ZONE.

CONSTRUCT RAMP A UP TO BUT NOT INCLUDING THE FINAL LAYER OF SURFACE COURSE ACCORDING TO THE FOLLOWING STATIONS (SEE TMP-11):

- RPA- STA. 23+00 +/- TO STA. 27+25 +/-

USING RSD 1205.01, 1205.03, 1205.14, AND 1250.01, PLACE PAVEMENT MARKING (TEMPORARY PAINT ON ASPHALT OR POLYUREA ON CONCRETE) AND MARKERS (TEMPORARY OR FINAL RAISED) IN FINAL PATTERN ON RAMP A AND ROUNDABOUT 1 ACCORDING TO THE FOLLOWING STATIONS (SEE TMP-11, TMP-12 AND PAVEMENT MARKING PLANS):

- RPA- STA. 10+00 +/- TO STA. 31+48 +/- (FINAL ON CONC)
- RAB1- STA 10+00 +/- TO STA. 13+95 +/- (FINAL)

INSTALL RAMP A DETOUR SIGNS AND BARRICADES ON -RAB1- AND SHIFT RAMP A TRAFFIC ONTO NEW RAMP ALIGNMENT AND DETOUR TO NC 4 AND NC 48 (SEE TMP-12).

STEP 9) USE RSD 1101.02 (SHEET 4 OF 14) FOR TEMPORARY LANE CLOSURES OF I-95 UPON COMPLETION OF -Y1- BRIDGE, MAKE ANY NEEDED REPAIRS AT THE I-95 MEDIAN OPENING AND REPLACE MEDIAN GUARDRAIL.

PHASE II

WORK IN STEPS 1 AND 2 MAY OCCUR INDEPENDENTLY, BUT MUST BE COMPLETED BEFORE STEP 3.

STEP 1) WORKING AWAY FROM TRAFFIC, USING RSD 1101.03 (SHEET 8 OF 9) FOR TEMPORARY RAMP CLOSURES OR WITH RAMP C TRAFFIC IN OFF-SITE DETOUR (SEE TMP-17), CONSTRUCT RUNAROUND DETOUR -RPD_DET- AND -RPC_DET- UP TO EDGE AND ELEVATION OF EXISTING PAVEMENT ACCORDING TO THE FOLLOWING STATIONS (SEE TMP-13):

- RPC_DET- STA. 10+88 +/- TO STA. 15+66 +/-
- RPD_DET- STA. 10+66 +/- TO STA. 13+84 +/-

STEP 2) USING RSD 1101.03 (SHEET 8 OF 9) AND FLAGGERS FOR TEMPORARY RAMP CLOSURE, PLACE TEMPORARY PAVEMENT MARKING (PAINT) AND MARKERS (TEMPORARY RAISED) ON THE RUNAROUND DETOURS AND RAMPS ACCORDING TO THE FOLLOWING STATIONS (SEE TMP-14):

- RPC_DET- STA. 10+00 +/- TO STA. 15+66 +/-
- RPD_DET- STA. 10+01 +/- TO -Y1- STA. 52+19 +/- LT

AND SHIFT TRAFFIC IN TEMPORARY PATTERN ON RUNAROUND DETOURS.

STEP 3) WORKING AWAY FROM TRAFFIC, CONSTRUCT ROUNDABOUT 2 (CONCRETE), RAMP C, RAMP D, AND -Y1- UP TO, BUT NOT INCLUDING THE FINAL LAYER OF SURFACE COURSE, ACCORDING TO THE FOLLOWING STATIONS (SEE TMP-15):

- RAB2- STA. 10+00 +/- TO STA. 13+95 +/-
- Y1- STA. 45+00 +/- TO STA. 50+00 +/-
- RPC- STA. 20+00 +/- TO STA. 21+62 +/-
- RPD- STA. 21+25 +/- TO STA. 21+43 +/-

USING RSD 1101.02 (SHEET 3 OF 14) AND FLAGGERS OR 1101.03 (SHEET 8 OF 9) FOR TEMPORARY LANE CLOSURE, CONSTRUCT OR WEDGE -Y1- UP TO, BUT NOT INCLUDING THE FINAL LAYER OF SURFACE COURSE, ACCORDING TO THE FOLLOWING STATIONS (SEE TMP-15):

- Y1- STA. 50+00 +/- TO STA. 50+74 +/- (WESTBOUND)
- Y1- STA. 48+89 +/- TO STA. 51+76 +/- (EASTBOUND)

USING RSD 1205.01, 1205.02, 1205.04, 1205.05, 1205.08, AND 1205.14 PLACE TEMPORARY PAVEMENT MARKING (PAINT) ON ASPHALT OR FINAL PAVEMENT MARKING (POLYUREA) ON CONCRETE AND MARKERS (TEMPORARY OR PERMANENT RAISED) FOR FINAL PATTERN ON ROUNDABOUTS, RAMP AND BRIDGE AND TEMPORARY OR FINAL PATTERN ON -Y1- ACCORDING TO THE FOLLOWING STATION (SEE TMP-18 AND PAVEMENT MARKING PLANS):

- RAB2- STA. 10+00 +/- TO STA. 13+95 +/- (FINAL ON CONC)
- Y1- STA. 40+28 +/- (AT RAB1) TO STA. 52+20 +/- (FINAL ON CONC)
- RPC- STA. 20+00 TO STA. 21+62 +/- (FINAL ON CONC)


MODIFY TEMPORARY SIGNAL AT NC 4/NC 48 FOR FINAL TRAFFIC PATTERN ON EASTBOUND -Y1- (SEE TMP-18).

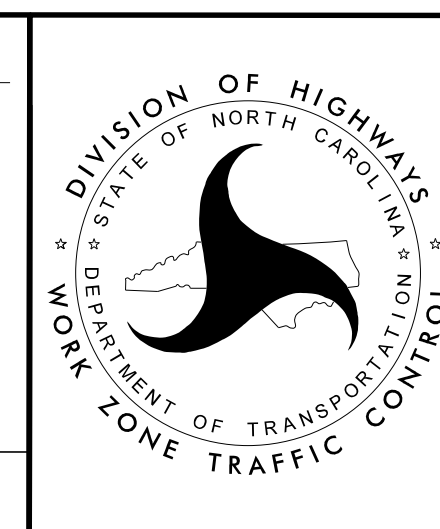
REMOVE BARRICADES AND RAB1 AND Y1 AND SHIFT RAMP A TRAFFIC ONTO -Y1- AND BRIDGE ACROSS I-95 AND OPEN SR 1544 (HALIFAX ROAD) TO TWO-LANE, TWO-WAY TRAFFIC BETWEEN RAB1 AND -Y2- (SEE TMP-18 AND TMP-19).

STEP 4) INSTALL AND COVER OFF-SITE DETOUR SIGNS FOR RAMP C DETOUR.

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PHASING NOTES

INTERMEDIATE CONTRACT TIME
 COMPLETE THE FOLLOWING WORK OF PHASE II, STEP 5 FOR RAMP C (I-95 NORTHBOUND EXIT) IN ACCORDANCE WITH THE INTERMEDIATE CONTRACT TIME OF 10 CONSECUTIVE DAYS (SEE SPECIAL PROVISIONS).

STEP 5 DURING CONSTRUCTION ON CONSECUTIVE NIGHTS, UNCOVER DETOUR SIGNS, SHIFT RAMP C TRAFFIC INTO TEMPORARY DETOUR ROUTE AND CLOSE EXISTING EXIT RAMP AND CONSTRUCT RAMP C (-RPC-) UP TO, BUT NOT INCLUDING THE FINAL LAYER OF SURFACE COURSE ACCORDING TO THE FOLLOWING STATION (SEE TMP-16):

-RPC- STA. 14+00 +/- TO STA. 20+00 +/-

USING RSD 1205.01, 1205.03, AND 1205.04 PLACE TEMPORARY PAVEMENT MARKING (PAINT) ON RAMP C IN FINAL PATTERN AND SHIFT TRAFFIC ONTO NEW RAMP ALIGNMENT (SEE TMP-18).

STEP 6 USING RSD 1101.03 (SHEET 8 OF 9) AND FLAGGERS FOR TEMPORARY LANE CLOSURE, REMOVE RUNAROUND DETOUR -RPC_DET- AND PCB AND CONSTRUCT EASTBOUND -Y1- UP TO BUT NOT INCLUDING THE FINAL LAYER OF SURFACE COURSE ACCORDING TO THE FOLLOWING STATIONS (SEE TMP-18):

-Y1- STA. 47+62 +/- TO STA. 51+00 +/- RT

STEP 7 USING RSD 1101.03 (SHEET 8 OF 9) AND FLAGGERS FOR TEMPORARY LANE CLOSURE AND RSD 1205.01, 1205.02, AND 1251.01, PLACE TEMPORARY PAVEMENT MARKING (PAINT) AND MARKERS (TEMPORARY RAISED) FOR TEMPORARY PATTERN (SEE TMP-18) TO OPEN WESTBOUND -Y1- TO TRAFFIC FOR SOUTHBOUND SR 1554 (HALIFAX ROAD) ACROSS -Y1- BRIDGE OVER I-95.

RESET BARRICADES AND PLACE DETOUR SIGNS FOR TEMPORARY PATTERN FOR SR 1544 (HALIFAX ROAD). PLACE BARRICADES TO CLOSE -Y2- AT CUL DE SACS AND SHIFT HALIFAX ROAD TRAFFIC INTO NEW PATTERN (SEE TMP-19A).

PHASE III

STEP 1 CONSTRUCT -Y2- CUL DE SACS ACCORDING TO THE FOLLOWING STATIONS (SEE TMP-20):

-Y2- STA. 13+64 +/- TO STA. 14+00 +/-
 -Y2- STA. 24+15 +/- TO STA. 24+85 +/-

STEP 2 WORKING AWAY FROM TRAFFIC, USING RSD 1101.02 (SHEET 4 OF 14) FOR TEMPORARY OUTSIDE LANE CLOSURE OF I-95, AND USING RSD 1101.03 (SHEET 9 OF 9) WITH ROLLING ROAD BLOCK FOR ROAD CLOSURE, REMOVE THE -Y2- BRIDGE OVER I-95 (SEE TMP-20):

-Y2- GIRDER REMOVAL OVER NORTHBOUND I-95

WORKING ON CONSECUTIVE NIGHTS DURING ALLOWABLE CLOSURE HOURS, REMOVE GIRDERS OVER NORTHBOUND I-95 (-L1-) AS FOLLOWS:

USE RSD 1101.03 (SHEET 9 OF 9) WITH ROLLING ROADBLOCK FOR TEMPORARY ROAD CLOSURE OF NORTHBOUND I-95 AT -Y2- BRIDGE.

REMOVE ALL -Y2- BRIDGE GIRDERS OVER THE NORTHBOUND LANES OF I-95 (-L1-).

AT THE END OF EACH NIGHT, OPEN NORTHBOUND LANES OF I-95 TO TRAFFIC.

-Y2- GIRDER REMOVAL OVER SOUTHBOUND I-95

WORKING ON CONSECUTIVE NIGHTS DURING ALLOWABLE CLOSURE HOURS, REMOVE GIRDERS OVER SOUTHBOUND I-95 (-L2-) AS FOLLOWS:

USE RSD 1101.03 (SHEET 9 OF 9) WITH ROLLING ROADBLOCK FOR TEMPORARY ROAD CLOSURE OF SOUTHBOUND I-95 AT -Y2- BRIDGE.

REMOVE ALL -Y2- BRIDGE GIRDERS OVER THE SOUTHBOUND LANES OF I-95 (-L2-).

AT THE END OF EACH NIGHT, OPEN SOUTHBOUND LANES OF I-95 TO TRAFFIC.

STEP 3 WORKING BEHIND EXISTING GUARDRAIL, INSTALL THE TRENCHLESS PIPE UNDER I-95 (SEE TMP-20)

STEP 4 DURING NIGHT CONSTRUCTION USING RSD 1101.02 (SHEET 4 OF 14) FOR TEMPORARY INSIDE LANE CLOSURE OF SOUTHBOUND I-95, RECONSTRUCT EXISTING SHOULDER UP TO EXISTING EDGE AND ELEVATION ACCORDING TO THE FOLLOWING STATIONS (SEE TMP-21 THRU TMP-22):

-L1- STA. 20+80 +/- TO STA. 49+00 +/-

RECONSTRUCT ONLY THE AMOUNT OF SHOULDER THAT CAN BE COMPLETED IN ONE NIGHT AND BROUGHT BACK TO EXISTING EDGE AND ELEVATION BEFORE REOPENING THE INSIDE LANE OF SOUTHBOUND I-95 TO TRAFFIC.

STEP 5 USING RSD 1101.02 (SHT 4 OF 14) FOR TEMPORARY LANE CLOSURES AND RSD 1205.01, 1205.02, 1250.01 AND 1251.01, PLACE TEMPORARY PAVEMENT MARKING (PAINT) AND MARKERS (TEMPORARY RAISED) ON SOUTHBOUND I-95 AND SHIFT TRAFFIC INTO TEMPORARY PATTERN ACCORDING TO THE FOLLOWING STATIONS (SEE TMP-23 THRU TMP-24):

-L1- STA. 20+03 +/- TO STA. 52+00 +/-

STEP 6 USING RSD 1101.02 (SHEET 4 OF 14) FOR TEMPORARY LANE CLOSURE, PLACE PORTABLE CONCRETE BARRIER (PCB) ALONG THE OUTSIDE LANE OF SOUTHBOUND I-95 ACCORDING TO THE FOLLOWING STATIONS (SEE TMP-23 THRU TMP-24):

-L1- STA. 26+28 +/- TO STA. 44+84 +/- LT

STEP 7 WORKING BEHIND BARRIER, CONSTRUCT RAMP B AND -L1- (I-95 NB) UP TO, BUT NOT INCLUDING THE FINAL LAYER OF SURFACE COURSE, AND USING RSD 1205.01, 1205.02, 1205.03, 1250.01 AND 1251.01. PLACE TEMPORARY OR FINAL PAVEMENT MARKING (TEMPORARY PAINT ON ASPHALT OR FINAL POLYUREA ON CONCRETE) AND MARKERS (TEMPORARY RAISED) ON SOUTHBOUND I-95 IN THE FINAL PATTERN ACCORDING TO THE FOLLOWING STATIONS (SEE TMP-23 THRU TMP-24 AND PAVEMENT MARKING PLAN):

-L1- STA. 27+17 +/- TO STA. 36+67 +/-
 -RPB- STA. 10+00 +/- TO STA. 23+66 +/- (FINAL ON CONC)

STEP 8 USING RSD 1101.02 (SHEET 4 OF 14) FOR TEMPORARY LANE CLOSURES ON SOUTHBOUND I-95 AND RSD 1205.01 AND 1205.02, REMOVE PCB AND PLACE PAVEMENT OVERLAY, PAVEMENT MARKINGS (THERMOPLASTIC), AND MARKERS (SNOWPLOWABLE) IN ORIGINAL PATTERN ACCORDING TO THE FOLLOWING STATIONS:

-L1- STA. 27+17 +/- TO 41+27 +/- (PAVEMENT OVERLAY)
 -L1- STA. 20+03 +/- TO STA. 52+00 +/- (PAVEMENT MARKINGS)
 -L1- STA. 26+28 +/- TO STA. 44+84 +/- LT (PCB REMOVAL)

AND SHIFT I-95 SOUTHBOUND TRAFFIC BACK INTO ORIGINAL PATTERN.

STEP 9 REMOVE BARRICADES AT ROUNDABOUT2 AND OPEN RAMP B FULLY TO TRAFFIC (SEE TMP-25).

PHASE IV

STEP 1 USING RSD 1101.02 (SHT 3 OF 14) FOR TEMPORARY LANE CLOSURE AND RSD 1205.01, 1205.08, AND 1205.06, PLACE TEMPORARY PAVEMENT MARKING (PAINT) AND MARKERS (TEMPORARY RAISED) ON -Y1- IN THE FINAL PATTERN TO CONVERT THE OUTSIDE LANE OF WESTBOUND NC 4 INTO RIGHT TURN ONLY ACCORDING TO THE FOLLOWING STATIONS (SEE TMP-28 AND PAVEMENT MARKING PLANS):

-Y1- STA. 53+31 +/- TO 60+71 +/-
 PLACE OFF-SITE DETOUR SIGNS FOR RAMP D AND SHIFT I-95 NORTHBOUND ENTRANCE RAMP TRAFFIC ONTO DETOUR (SEE TMP-26).

INTERMEDIATE CONTRACT TIME
 COMPLETE THE FOLLOWING WORK OF PHASE IV, STEPS 2 THROUGH 4 FOR I-95 AND RAMP D (I-95 NORTHBOUND ENTRANCE RAMP) IN ACCORDANCE WITH THE INTERMEDIATE CONTRACT TIME OF 14 CONSECUTIVE DAYS (SEE SPECIAL PROVISIONS).

STEP 2 COMPLETE GRADING STARTED IN PHASE I AND CONSTRUCT RAMP D (-RPD-) UP TO BUT NOT INCLUDING THE FINAL LAYER OF SURFACE COURSE ACCORDING TO THE FOLLOWING STATIONS (SEE TMP-27):

-RPD- STA. 14+15 +/- TO STA. 21+25 +/-

STEP 3 USING RSD 1101.02 (SHEET 4 OF 14) FOR TEMPORARY LANE CLOSURES OF NORTHBOUND I-95, MILL AND OVERLAY EXISTING RAMP D AND I-95 ACCORDING TO THE FOLLOWING STATIONS (SEE TMP-27):

-L- STA. 60+40 +/- TO STA. 64+50 +/-

USING RSD 1205.01, 1205.02, 1205.03, 1250.01 AND 1251.01. PLACE TEMPORARY (PAINT) OR FINAL (THERMOPLASTIC) PAVEMENT MARKING AND MARKERS (SNOWPLOWABLE) ON RAMP D AND NORTHBOUND I-95 IN THE FINAL PATTERN ACCORDING TO THE FOLLOWING STATIONS (SEE PAVEMENT MARKING PLANS):

-RPD- STA. 10+00 +/- TO STA. 21+25 +/-
 -L- STA. -L- STA. 60+40 +/- TO STA. 64+50 +/-

REMOVE BARRICADES AT ROUNDABOUT 2 TO OPEN RAMP D FULLY TO TRAFFIC AND REMOVE RAMP D OFF-SITE DETOUR SIGNS.

STEP 4 USING RSD 1101.03 (SHEET 8 OF 9) AND FLAGGERS FOR TEMPORARY ROAD CLOSURE, CONSTRUCT OUTSIDE SHOULDER OF WESTBOUND -Y1- UP TO BUT NOT INCLUDING THE FINAL LAYER OF SURFACE COURSE ACCORDING TO THE FOLLOWING STATIONS (SEE TMP-28):

-Y1- STA. 48+86 +/- TO STA. 52+38 +/-

AND REMOVE -RPD_DET- PAVEMENT AND PCB (SEE TMP-27)

STEP 5 REMOVE REMAINING PAVEMENT FROM I-95 INTERCHANGE RAMPS (SEE TMP-27 AND TMP-28)

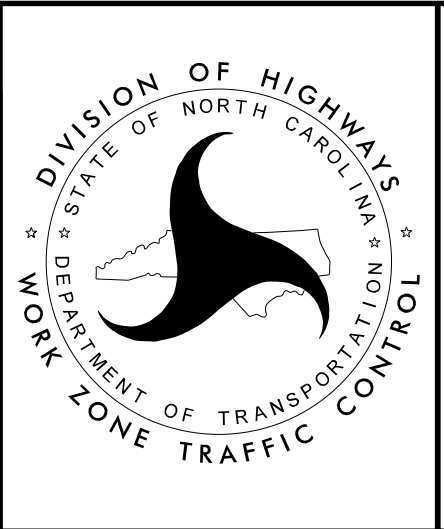
STEP 6 USING RSD 1101.02 (SHEET 4 OF 14) FOR TEMPORARY LANE CLOSURE OF I-95 DURING ALLOWABLE LANE CLOSURE HOURS, CREATE THE MEDIAN GUARDRAIL BREAK FOR ACCESS TO MEDIAN AT THE LOCATION APPROVED BY THE ENGINEER. (SEE TMP-29).

STEP 7 WORKING AWAY FROM TRAFFIC, OR DURING ALLOWABLE LANE CLOSURE HOURS USING RSD 1101.03 (SHEET 7 OF 9) TO DETOUR ALL TRAFFIC ONTO THE INTERCHANGE RAMPS, CREATE A MEDIAN BREAK FOR ACCESS (SEE TMP-05) AND REMOVE RAMP BRIDGE OVER I-95 AND CONSTRUCT I-95 SHOULDERS (-L1- AND -L2-) ACCORDING TO THE FOLLOWING STATIONS (SEE TMP-29):

-L1- STA. 50+27 +/- TO STA. 52+54 +/- LT
 -L2- STA. 49+95 +/- TO STA. 52+68 +/- RT

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 DATE: 4/15/2020
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 4/15/2020



PHASING NOTES

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PROJ. REFERENCE NO.	SHEET NO.
B-5980	TMP-03B

BRIDGE GIRDER REMOVAL OVER NORTHBOUND I-95

WORKING ON CONSECUTIVE NIGHTS DURING ALLOWABLE CLOSURE HOURS, REMOVE GIRDERS OVER NORTHBOUND I-95 (-L2-) AS FOLLOWS:

USE RSD 1101.03 (SHEET 7 OF 9) FOR TEMPORARY CLOSURE OF NORTHBOUND I-95 AND EXIT ALL NORTHBOUND TRAFFIC TO RAMP C AND BACK TO I-95 ON RAMP D.

REMOVE ALL BRIDGE GIRDERS OVER THE NORTHBOUND LANES OF I-95 (-L2-).

AT THE END OF EACH NIGHT, OPEN NORTHBOUND LANES OF I-95 TO TRAFFIC.

BRIDGE GIRDER REMOVAL OVER SOUTHBOUND I-95

WORKING ON CONSECUTIVE NIGHTS DURING ALLOWABLE CLOSURE HOURS, REMOVE GIRDERS OVER SOUTHBOUND I-95 (-L1-) AS FOLLOWS:

USE RSD 1101.03 (SHEET 7 OF 9) FOR TEMPORARY CLOSURE OF SOUTHBOUND I-95 AND EXIT ALL NORTHBOUND TRAFFIC TO RAMP A AND BACK TO I-95 ON RAMP B.

REMOVE ALL BRIDGE GIRDERS OVER THE SOUTHBOUND LANES OF I-95 (-L1-).

AT THE END OF EACH NIGHT, OPEN SOUTHBOUND LANES OF I-95 TO TRAFFIC.

USING RSD 1101.02 (SHEET 4 OF 14) FOR TEMPORARY INSIDE LANE CLOSURE OF I-95 OR WITH TRAFFIC IN A TEMPORARY PATTERN ON THE RAMPS, REPLACE MEDIAN GUARDRAIL AT MEDIAN BREAK.

STEP 8) USE RSD 1101.02 (SHEET 4 OF 14) FOR TEMPORARY LANE CLOSURES OF I-95 UPON COMPLETION OF BRIDGE DEMOLITION, MAKE ANY NEEDED REPAIRS AT THE I-95 MEDIAN OPENING AND REPLACE MEDIAN GUARDRAIL.

PHASE V


STEP 1) USING RSD 1101.02 (SHEETS 1, 3, 4, 5, 6, 11 AND 13 OF 14) AND FLAGGERS AS NEEDED FOR TEMPORARY LANE CLOSURES, PLACE THE FINAL LAYER OF SURFACE COURSE AND USING RSD 1205.01 THRU 1205.05, 1205.07, 1205.08, 1205.12, 1205.14, 1250.01, AND RSD 1251.01, PLACE PERMANENT PAVEMENT MARKING (THERMOPLASTIC) AND MARKERS (SNOWPLOWABLE) IN FINAL PATTERN ACCORDING TO THE PAVEMENT MARKING PLAN FOR -L- LINES, -Y-LINES, AND RAMPS ACCORDING TO THE FOLLOWING STATIONS:

- L1- STA. 27+18 +/- TO STA. 41+27 +/-
- Y1- STA. 15+00 +/- TO STA.36+00 +/-
- Y1- STA. 48+00 +/- TO STA. 54+55 +/-
- Y2- STA. 10+12 +/- TO STA. 14+00 +/-
- Y3- STA. 21+28 +/- TO STA. 26+38 +/-
- RPA- STA. 23+00 +/- TO STA. 31+00 +/-
- RPB- STA. 10+00 +/- TO STA. 23+00 +/-
- RPC- STA. 14+00 +/- TO STA. 21+19 +/-
- RPD- STA. 14+49 +/- TO STA. 20+63 +/-

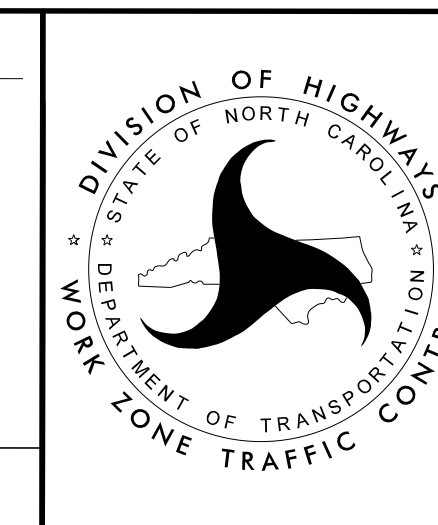
AND OPEN PROJECT FULLY TO TRAFFIC.

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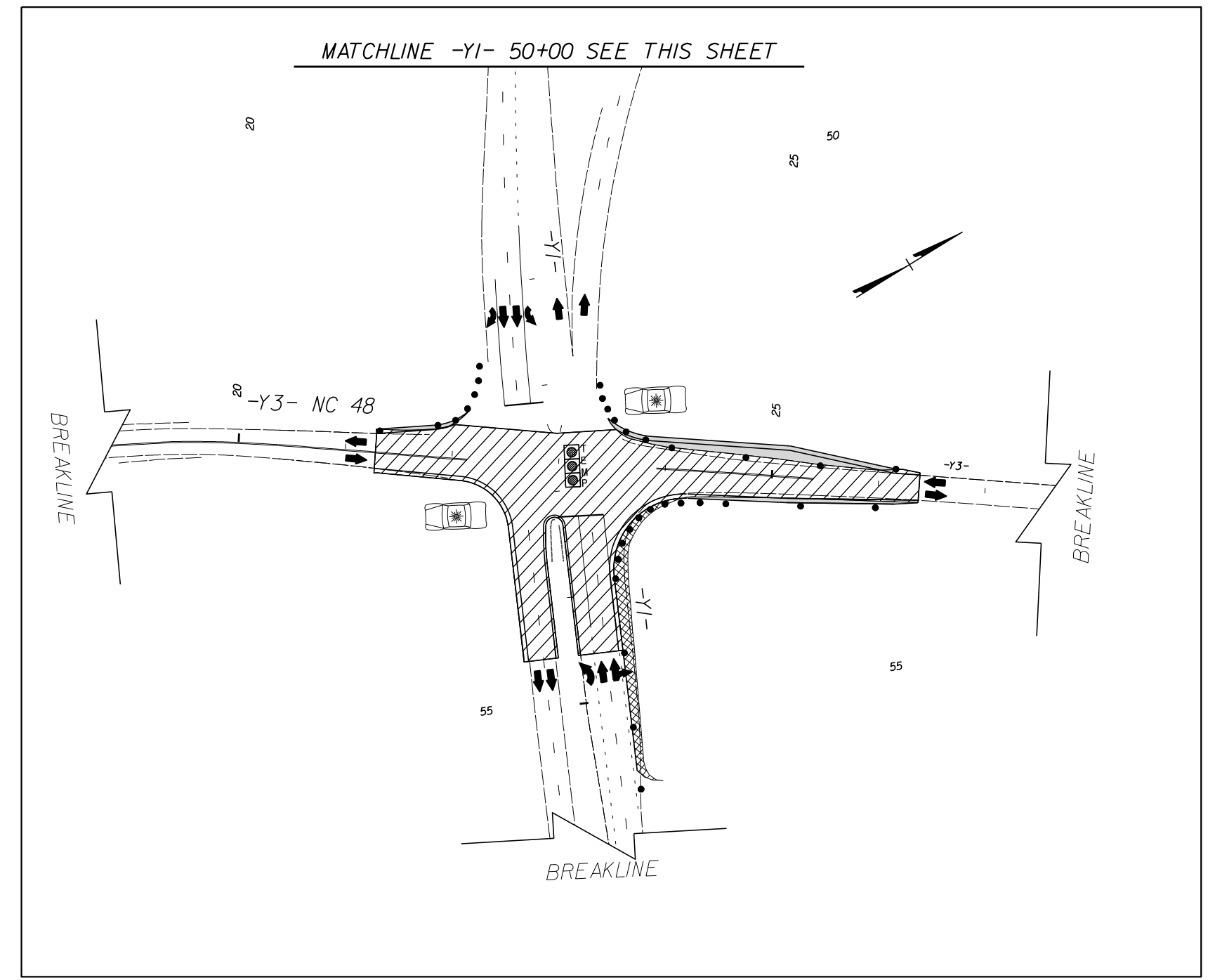
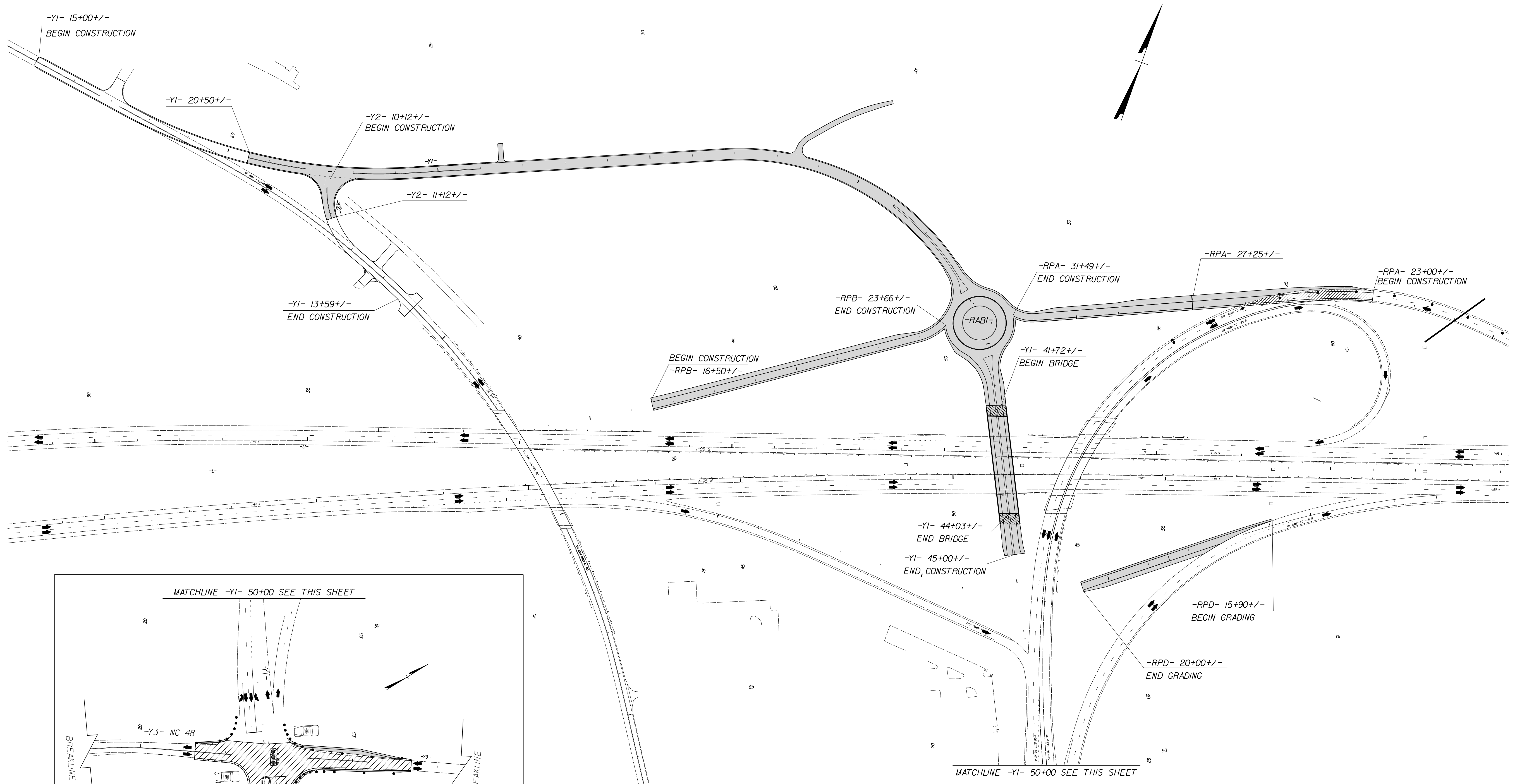
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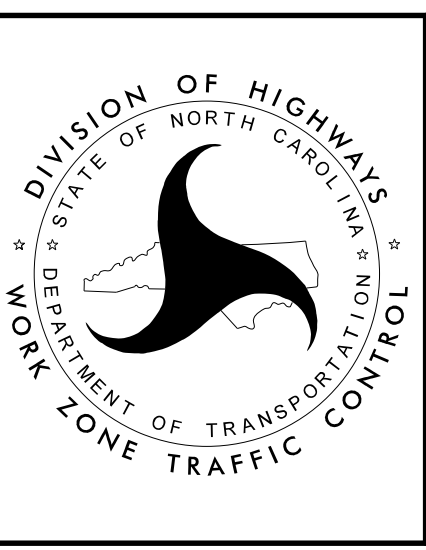
PHASING NOTES



	WORK ZONE
	PAVEMENT WEDGING

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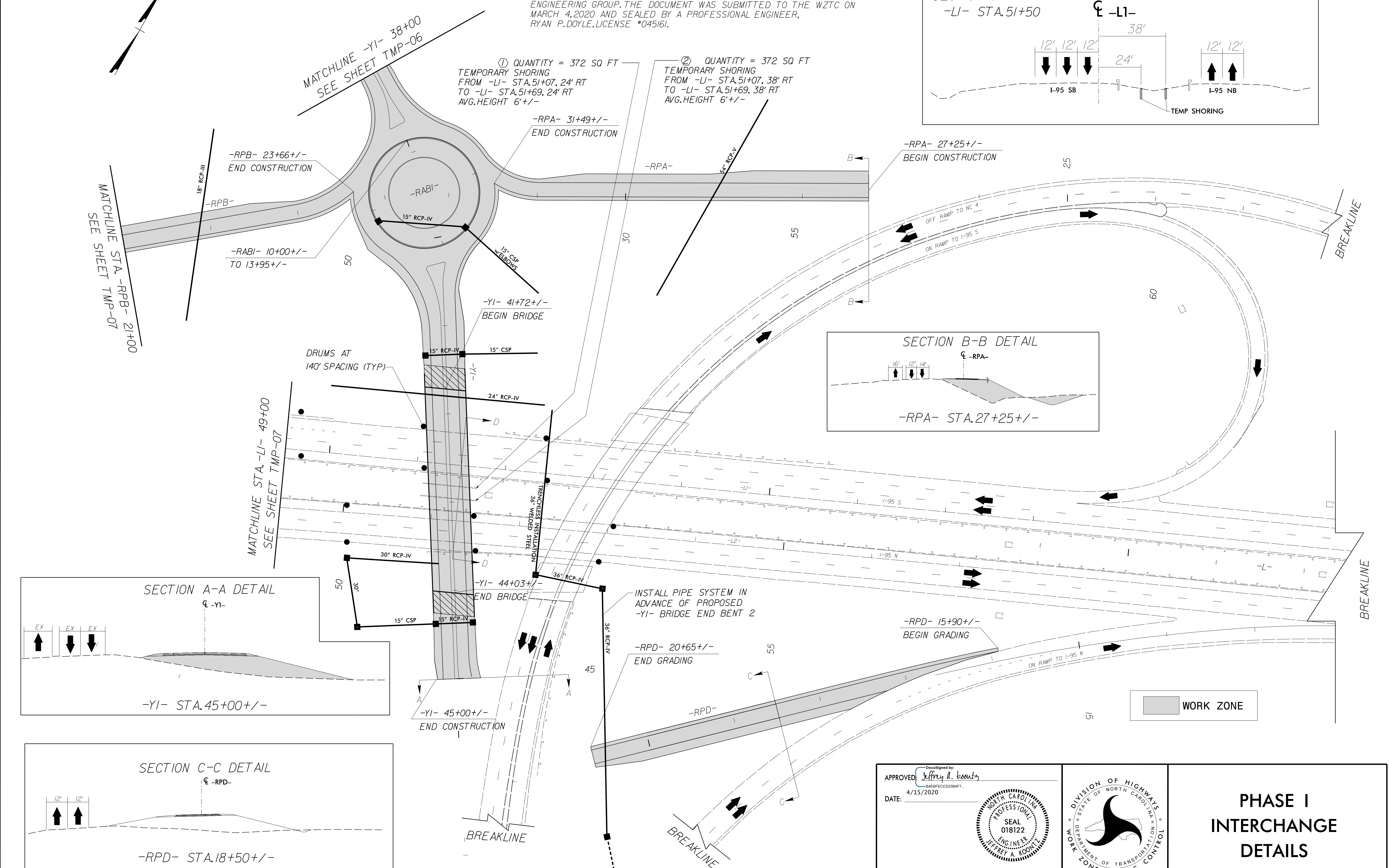
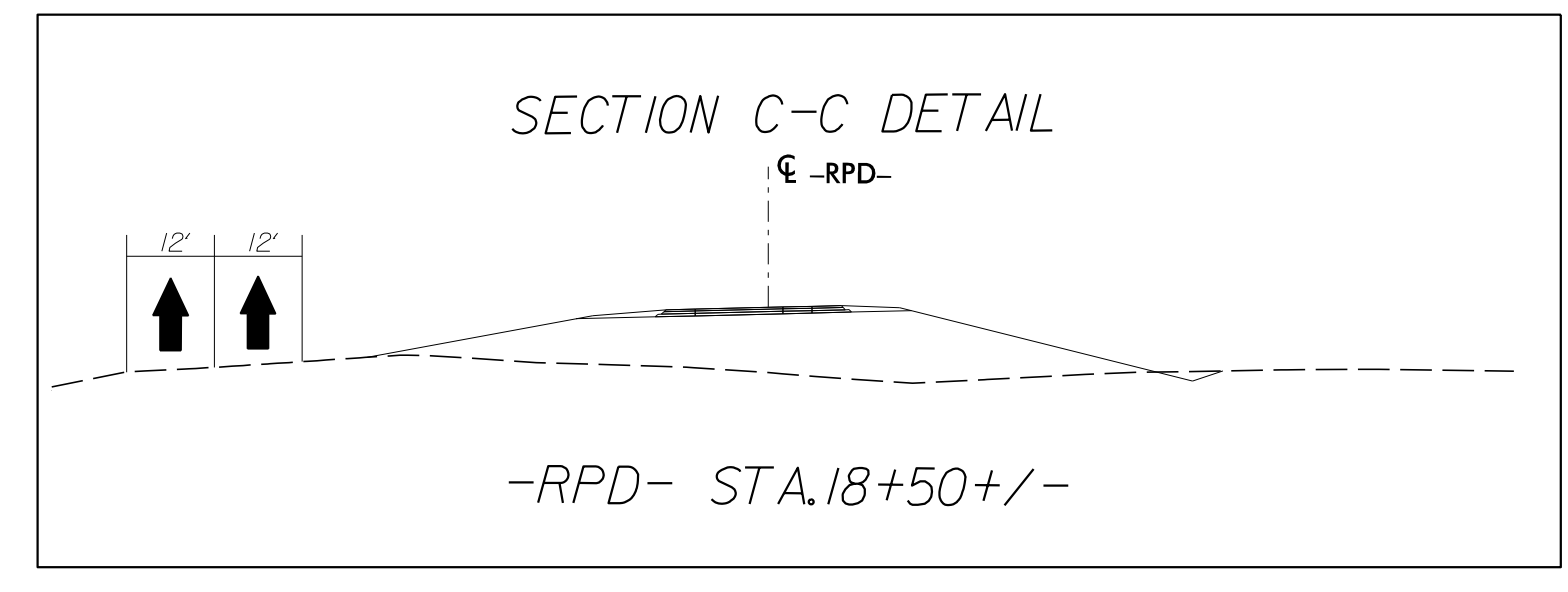
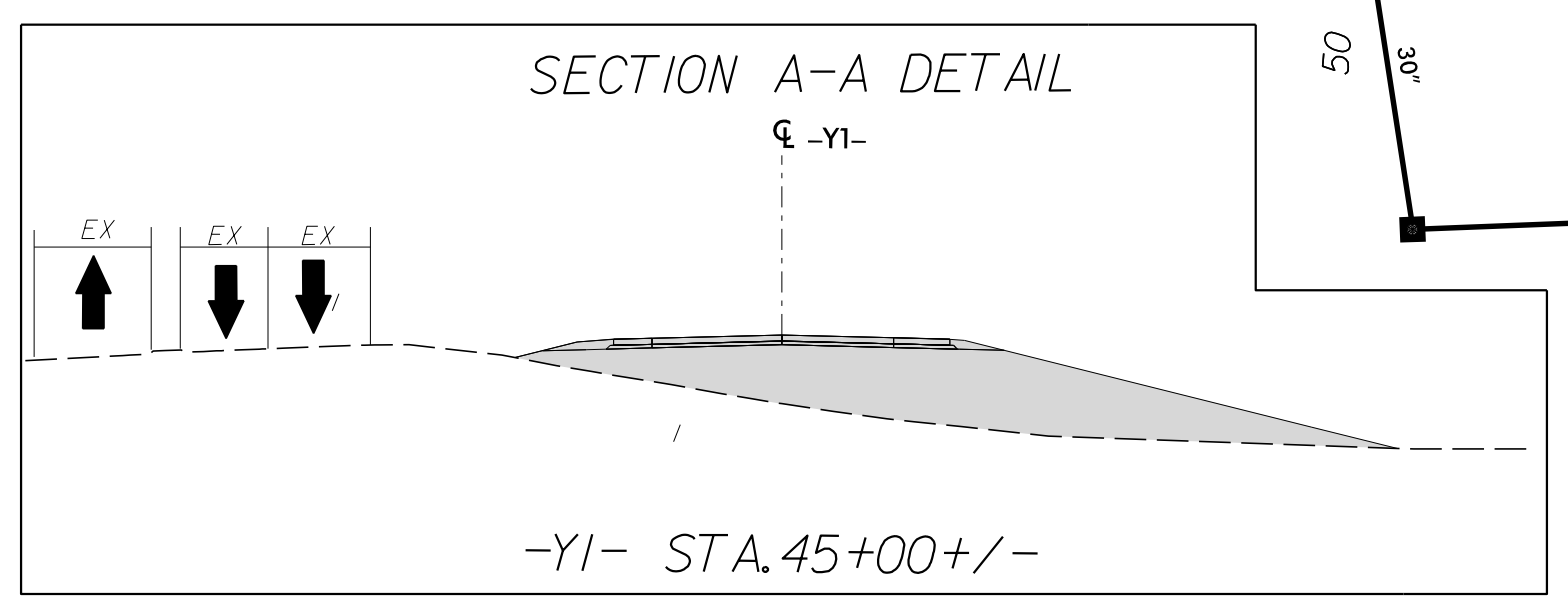
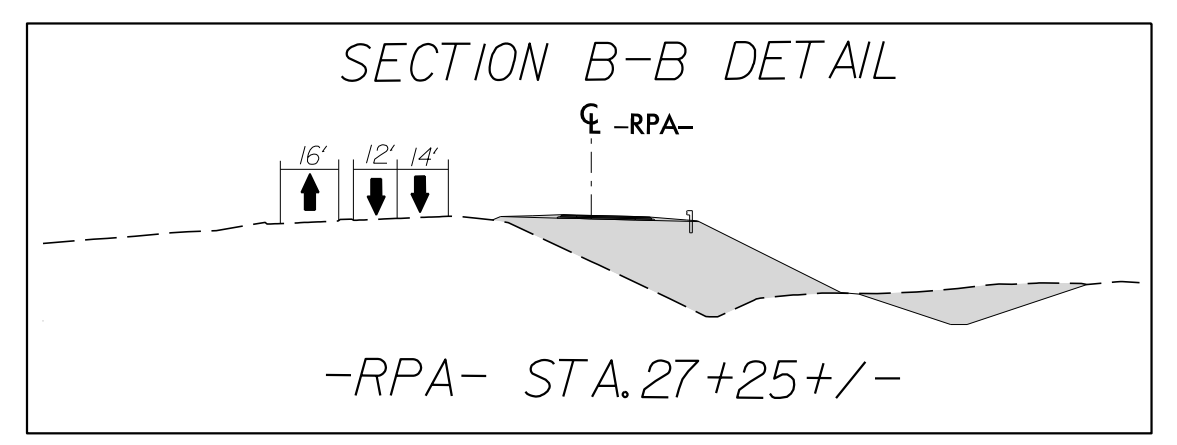
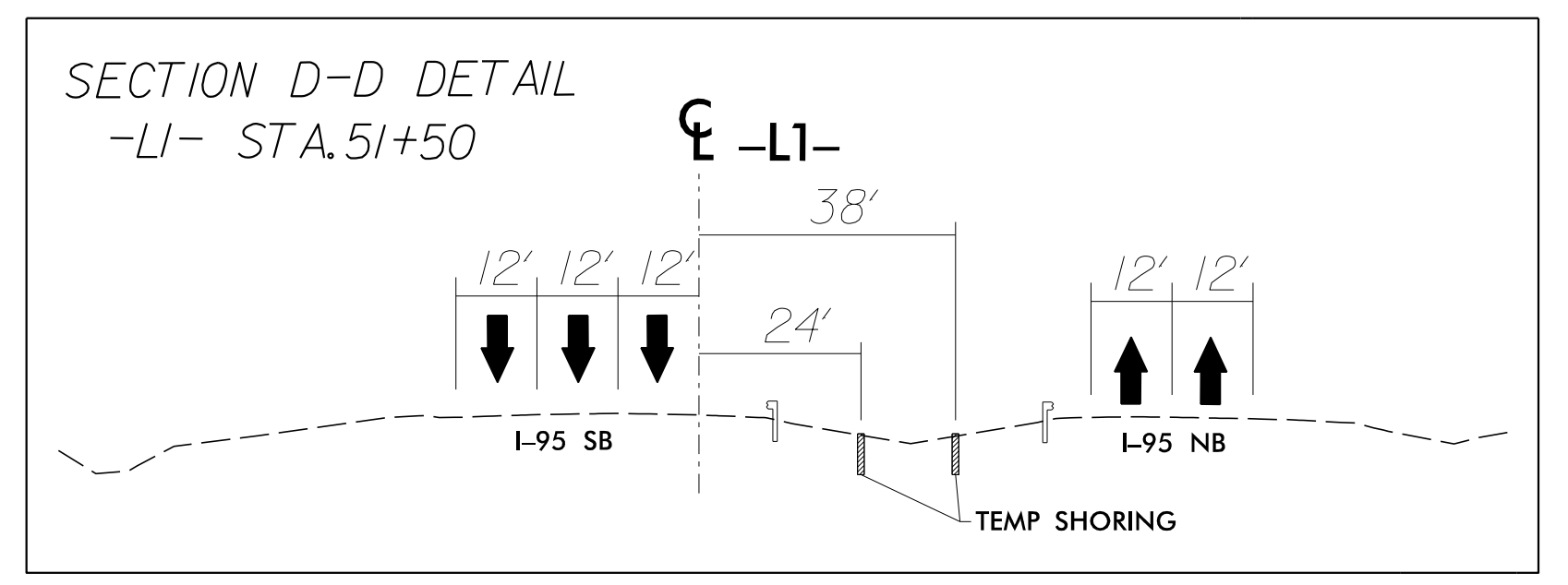
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**PHASE I
 OVERVIEW**

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NOTE:
 THE TEMPORARY SHORING NOTES SHOWN ON TMP-02B WERE PROVIDED THROUGH A SEALED DOCUMENT FROM THE AECOM GEOTECHNICAL ENGINEERING GROUP. THE DOCUMENT WAS SUBMITTED TO THE WZTC ON MARCH 4, 2020 AND SEALED BY A PROFESSIONAL ENGINEER, RYAN P. DOYLE, LICENSE #045161.



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 DATE: 4/15/2020
 NORTH CAROLINA PROFESSIONAL ENGINEER SEAL 018122
 JEFFREY A. KOONTZ



PHASE I INTERCHANGE DETAILS

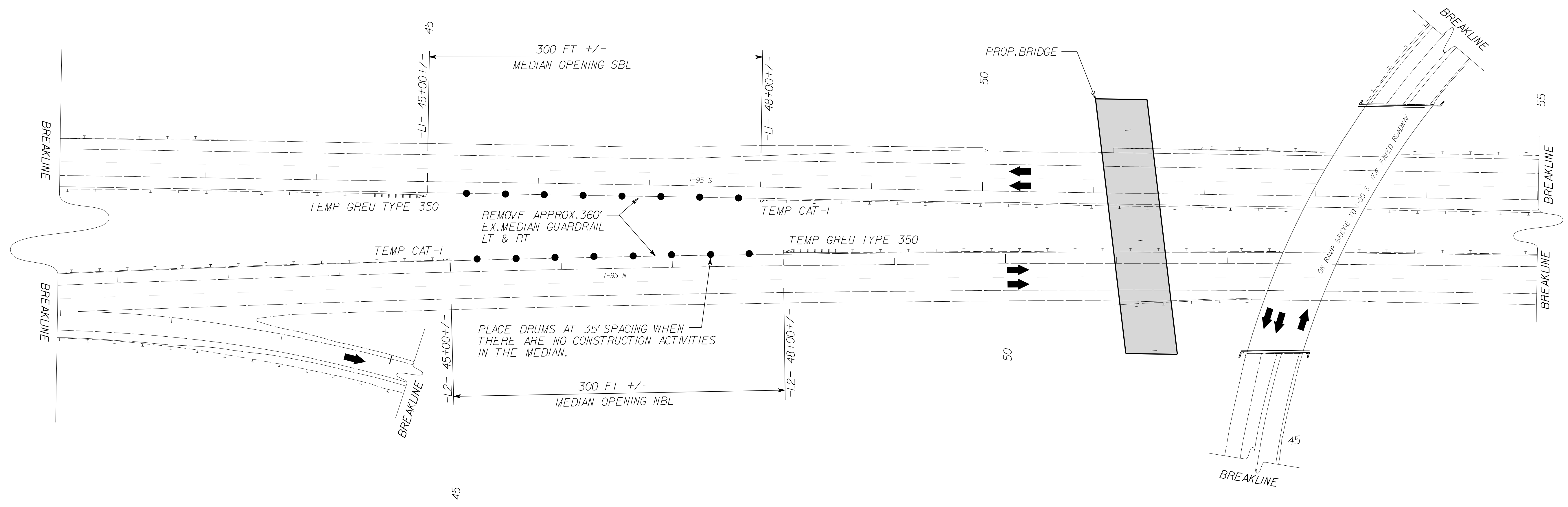
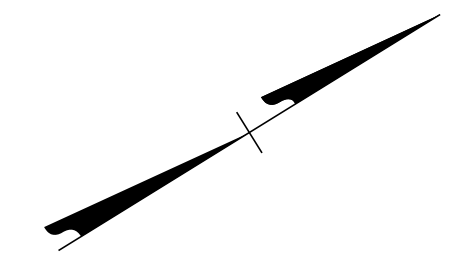
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 User: jeff.koontz

MEDIAN ACCESS DETAIL

DETAIL MAY BE USED TO ACCESS
MEDIAN NORTH OF EX.INTERCHANGE
BRIDGE. LOCATION TO BE DETERMINED.

MEDIAN OPENING LOCATION
AND LENGTH MAY BE REVISED
WITH APPROVAL OF THE ENGINEER
TO MEET EQUIPMENT NEEDS



REPLACE MEDIAN GUARDRAIL
WHEN CONTRACTOR ACCESS
NO LONGER REQUIRED

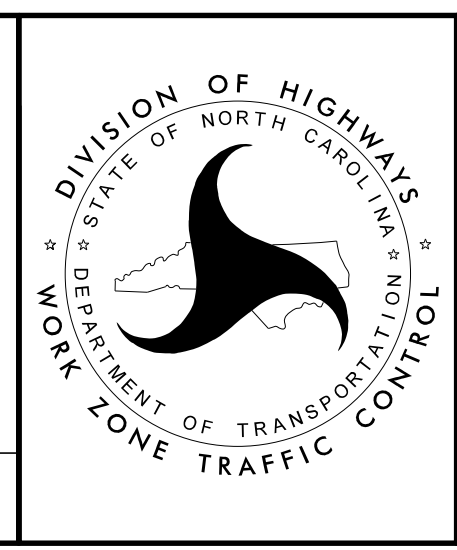
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User:kim.koivuntemi

APPROVED: *Jeffrey D. Kooty*
DATE: 4/15/2020

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Jeffrey D. Kooty
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SEAL
018122
ENGINEER
JEFFREY A. KOOTY

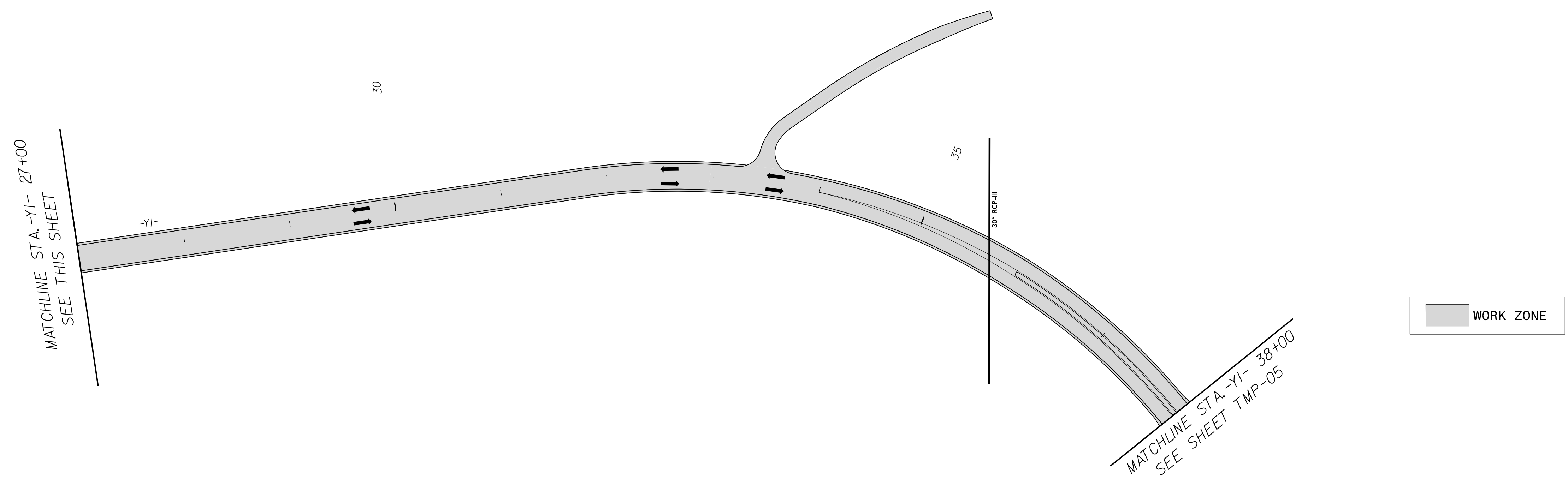
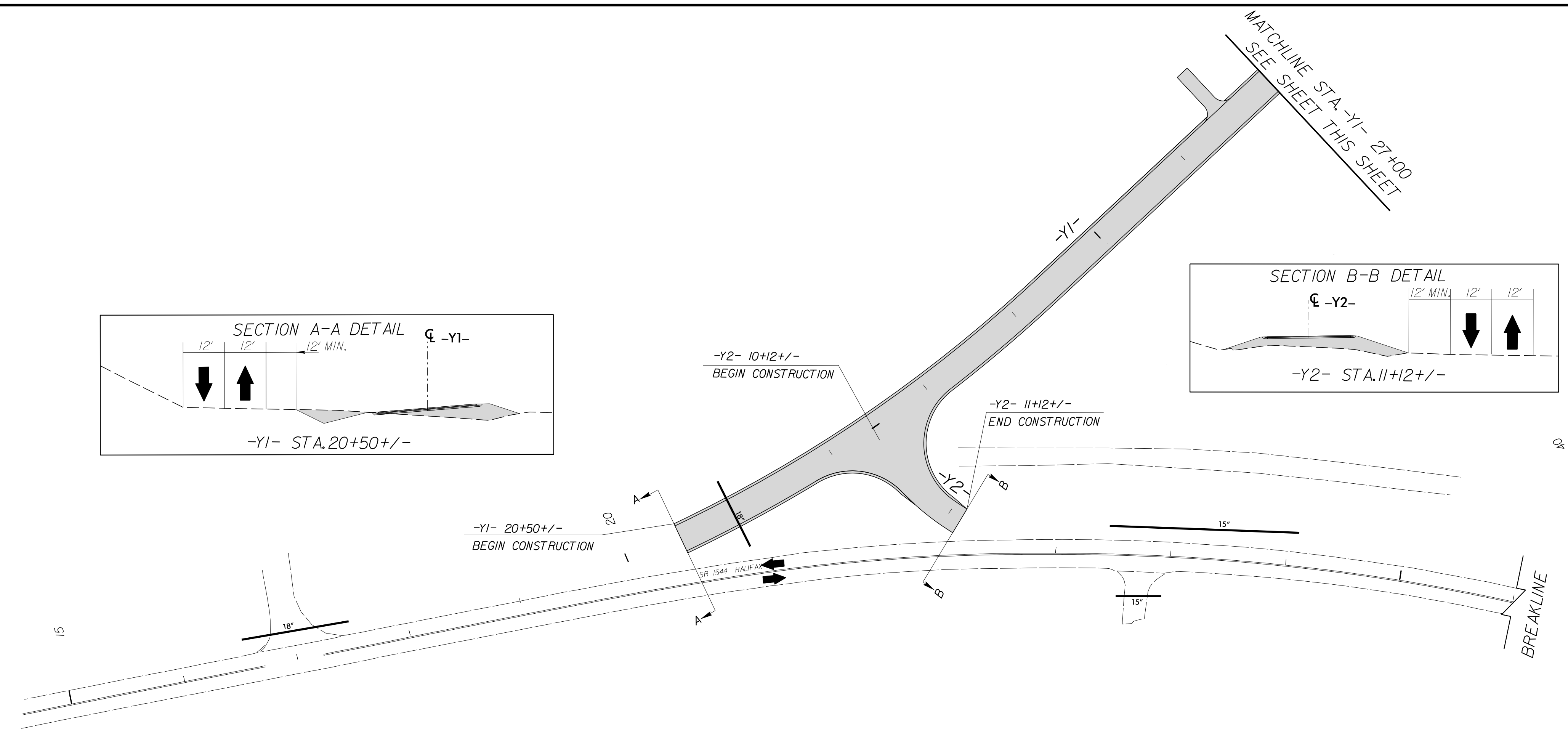
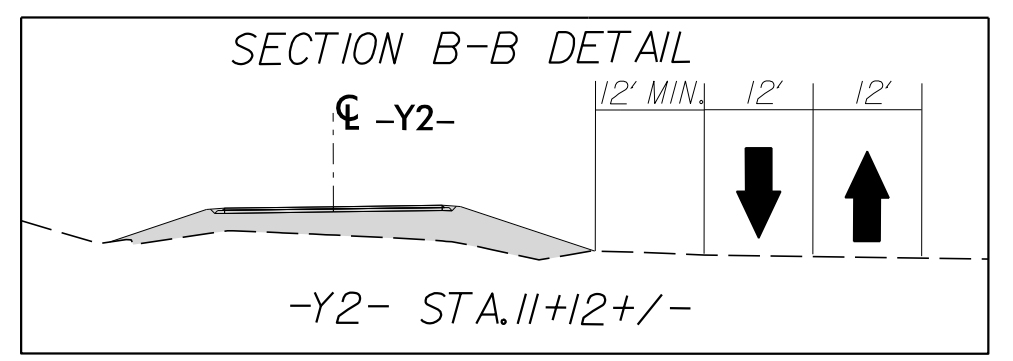
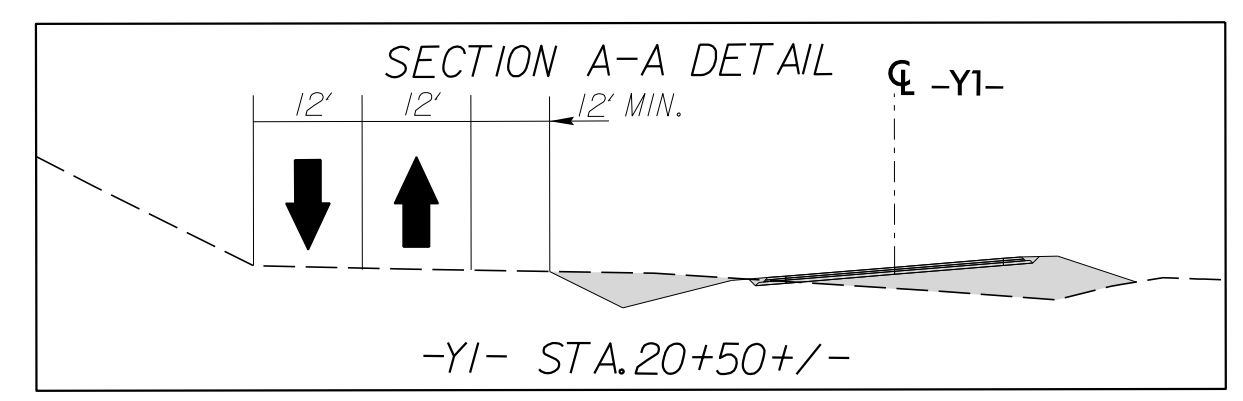
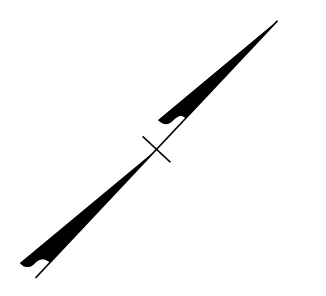
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**PHASE I
MEDIAN BREAK
DETAIL**

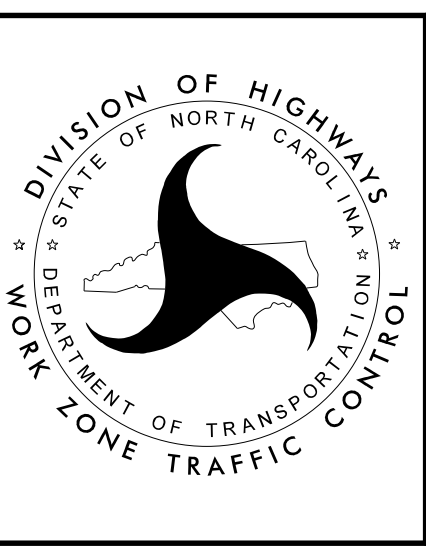
WORK ZONE TRAFFIC CONTROL

PROJ. REFERENCE NO.	SHEET NO.
B-5980	TMP-06



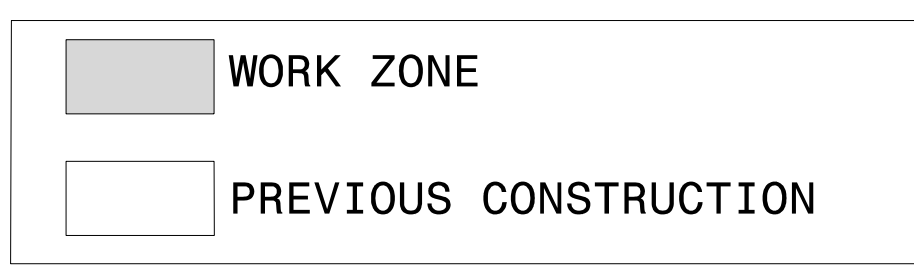
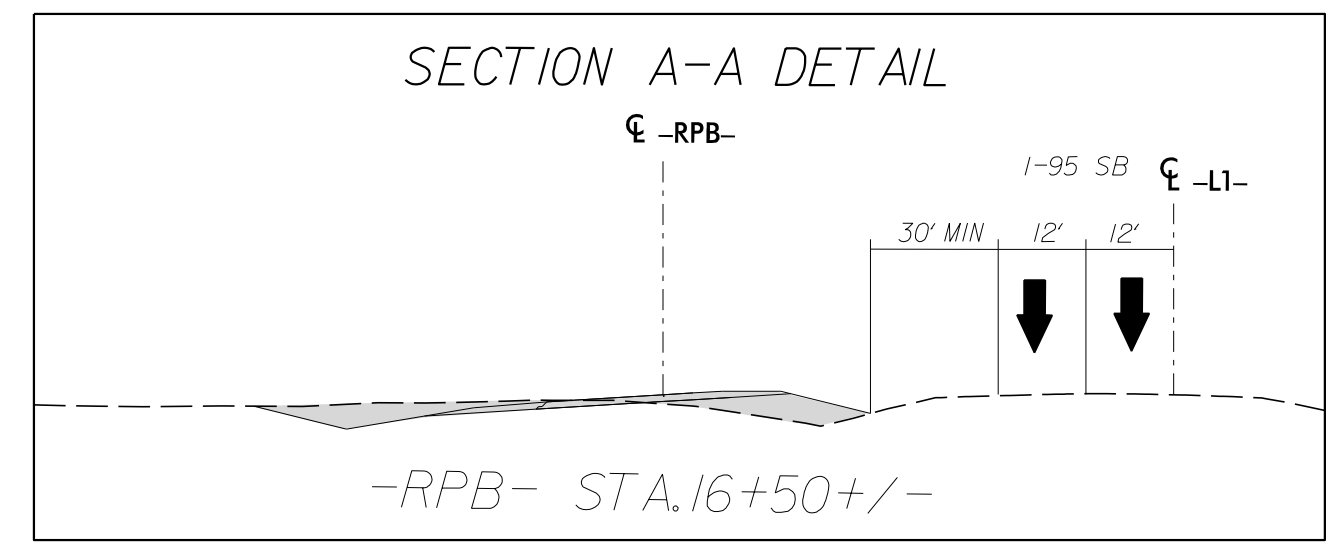
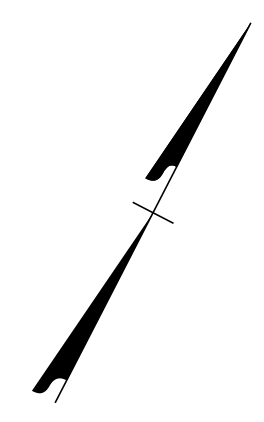
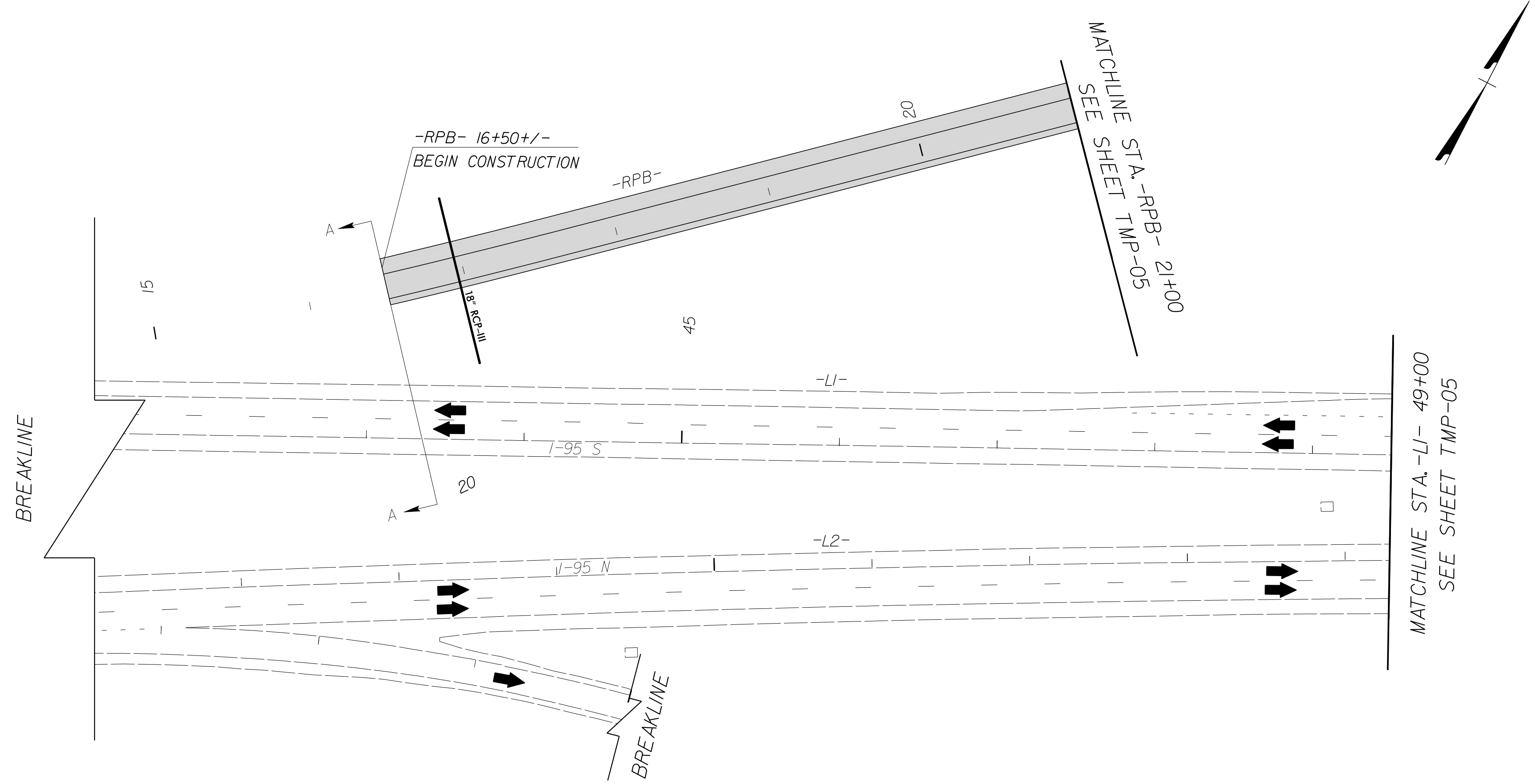
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 DATE: 4/15/2020



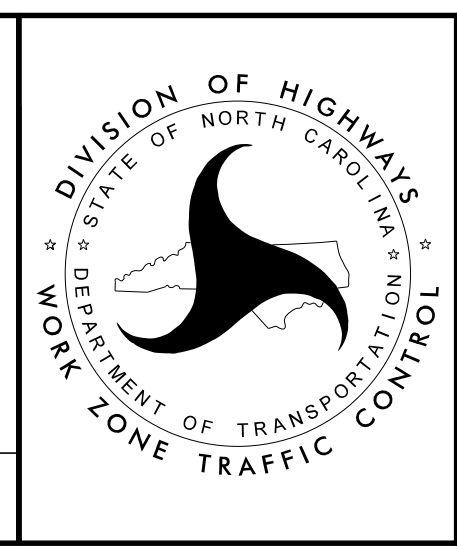
PHASE I
-Y1-
DETAILS

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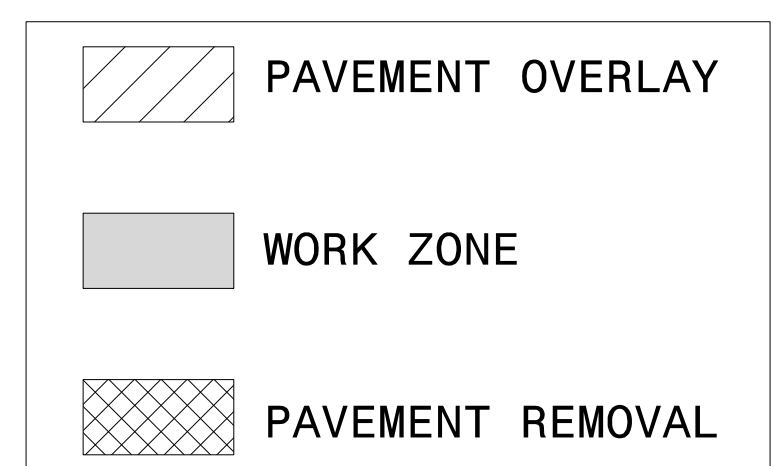
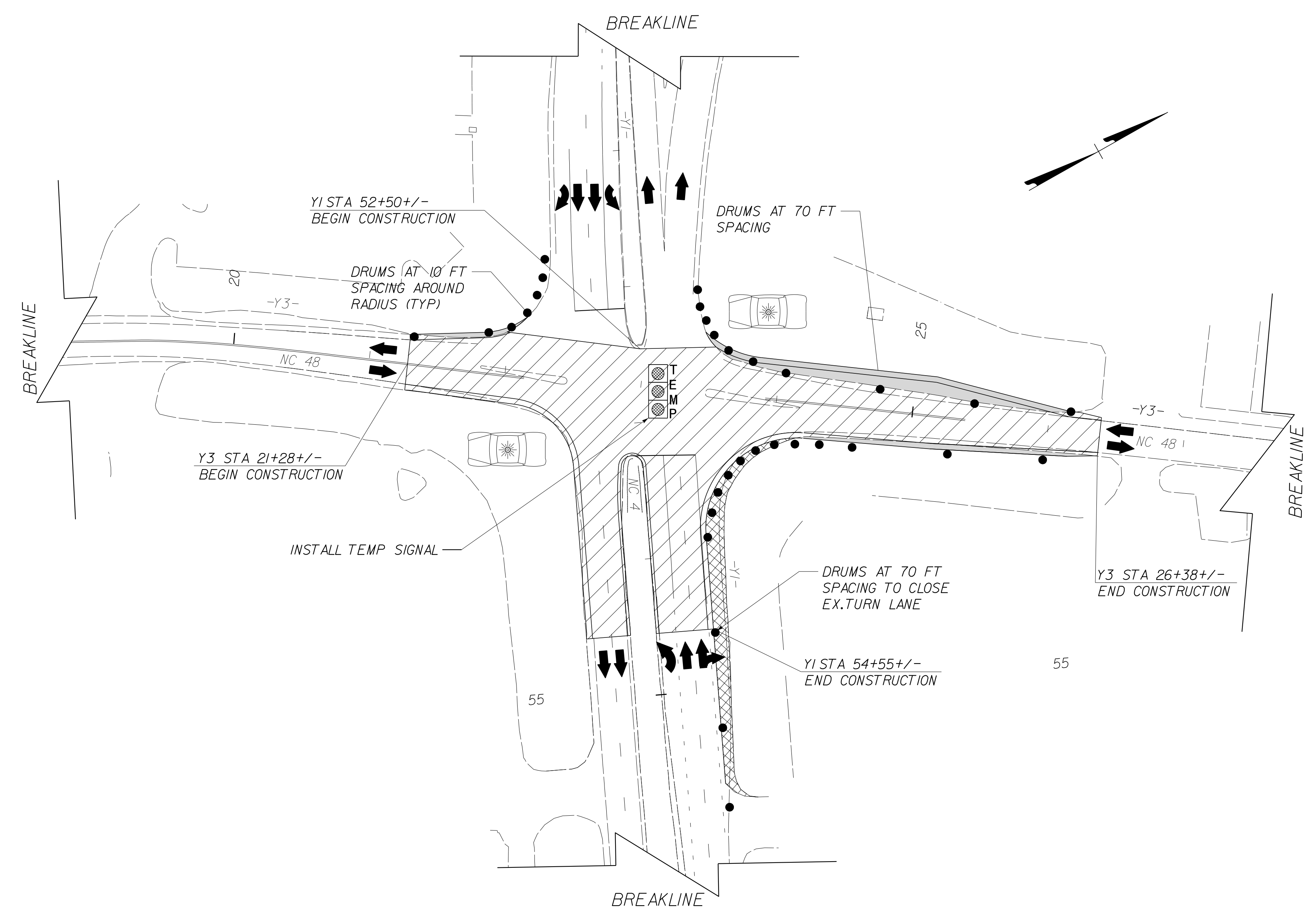
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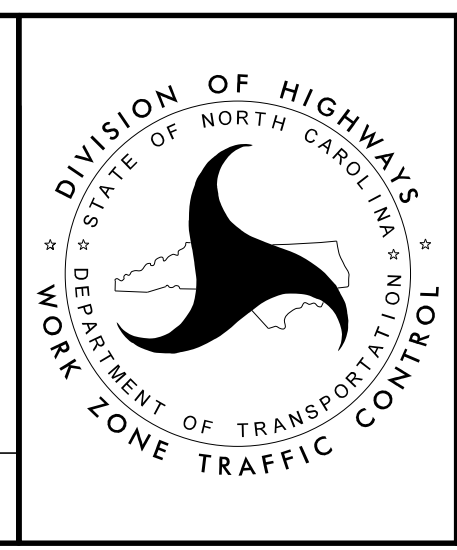
**PHASE I
 RAMP B
 DETAILS**

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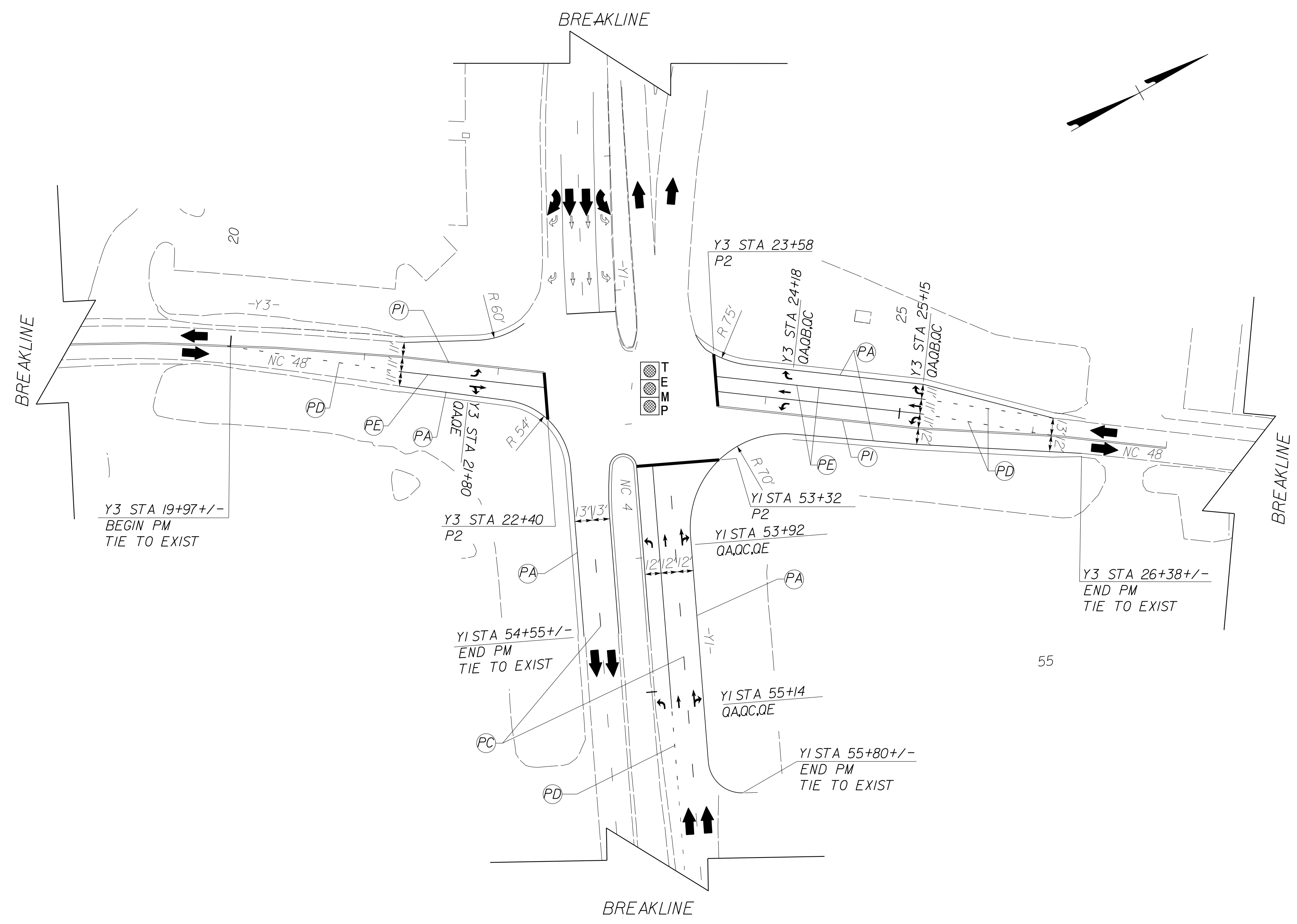
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PHASE I -Y1- & -Y3- DETAILS

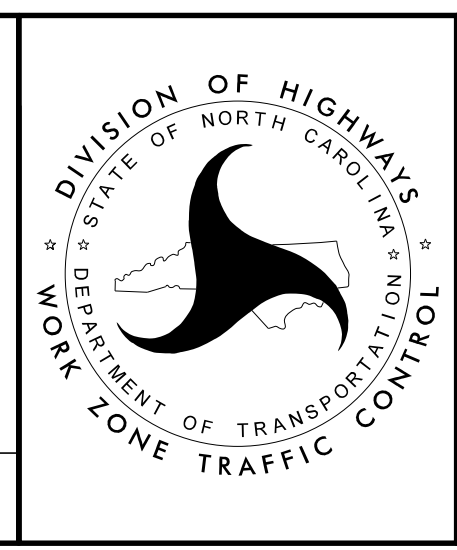
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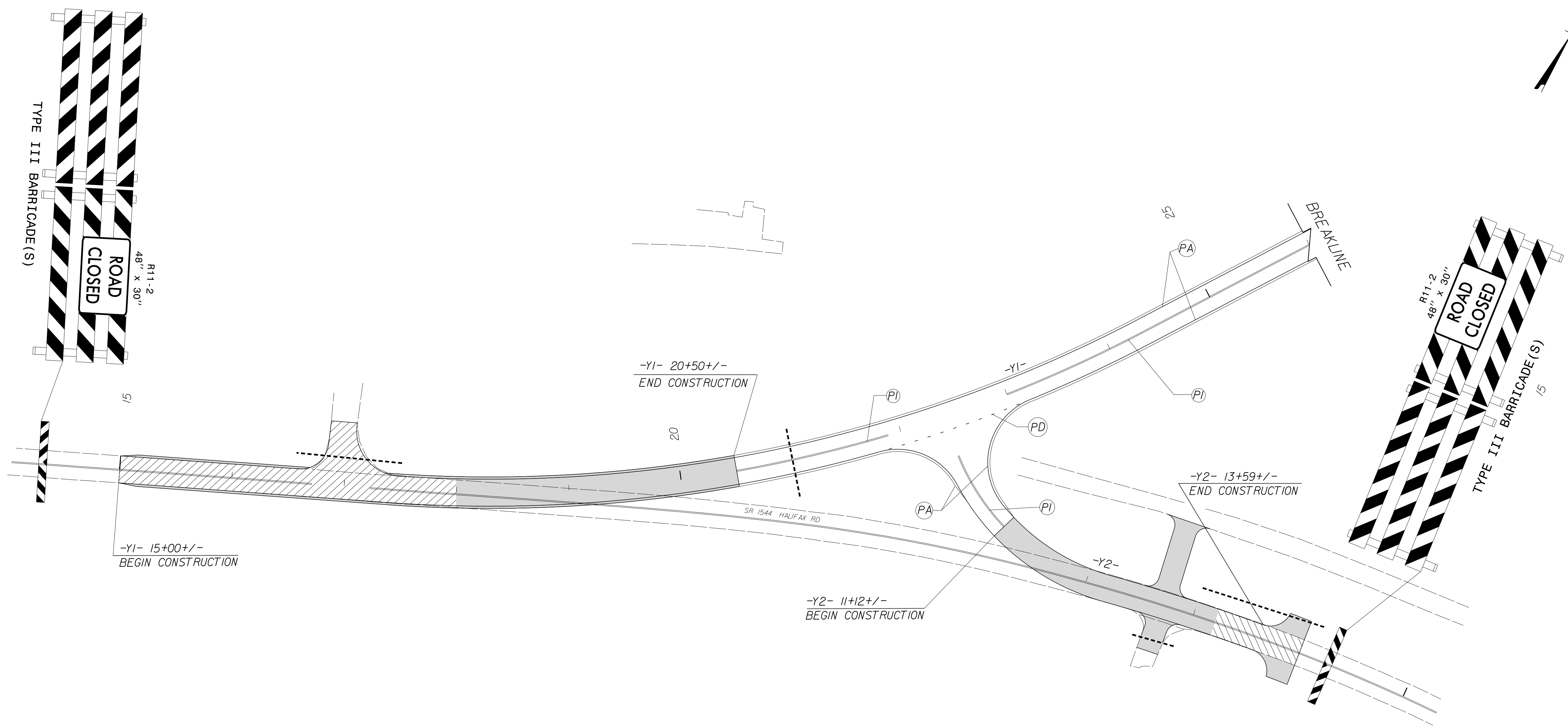
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PHASE I

-Y1- & -Y3- PM DETAILS



TYPE III BARRICADE(S)

ROAD CLOSED
48" x 30"
R11-2

-Y1- 15+00+/-
BEGIN CONSTRUCTION

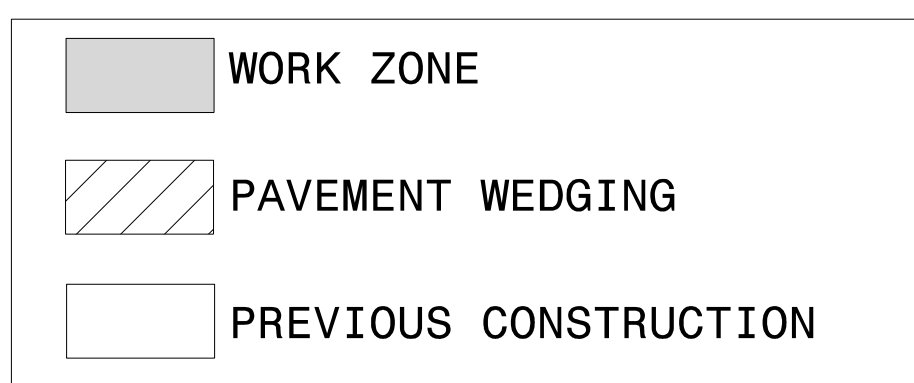
-Y1- 20+50+/-
END CONSTRUCTION

-Y2- 11+12+/-
BEGIN CONSTRUCTION

-Y2- 13+59+/-
END CONSTRUCTION

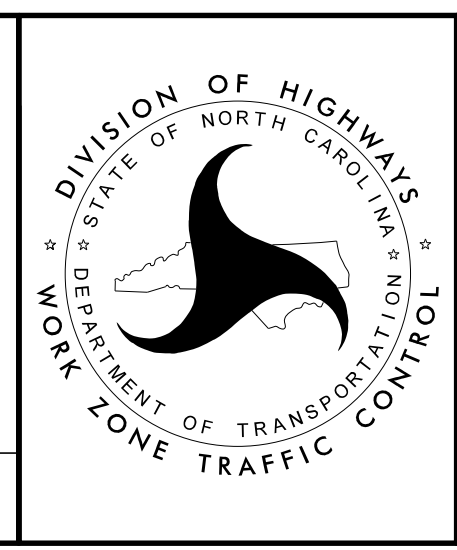
ROAD CLOSED
48" x 30"
R11-2
TYPE III BARRICADE(S)

SEE OFF-SITE DETOUR
ON TMP-10A



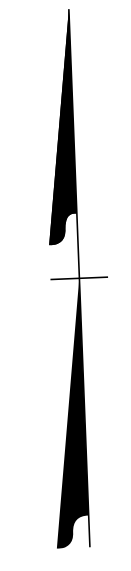
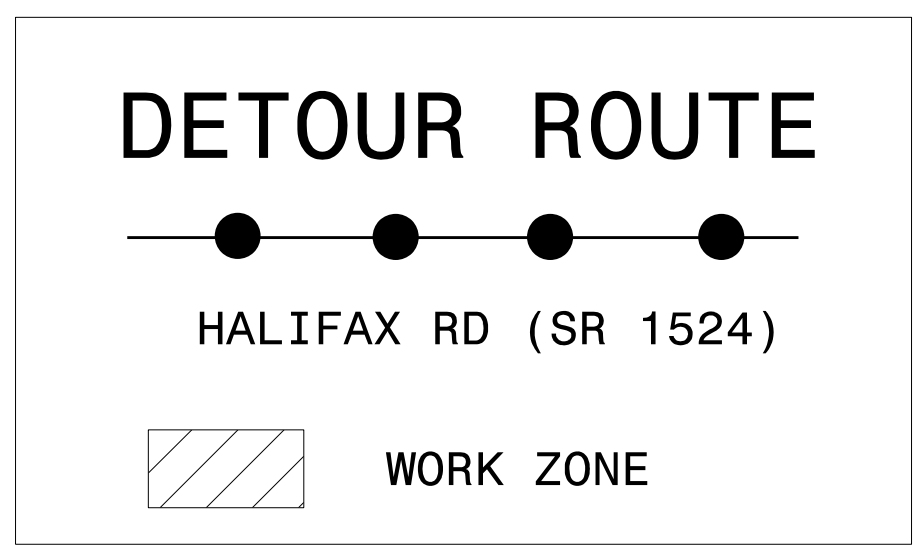
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PHASE I DETAILS

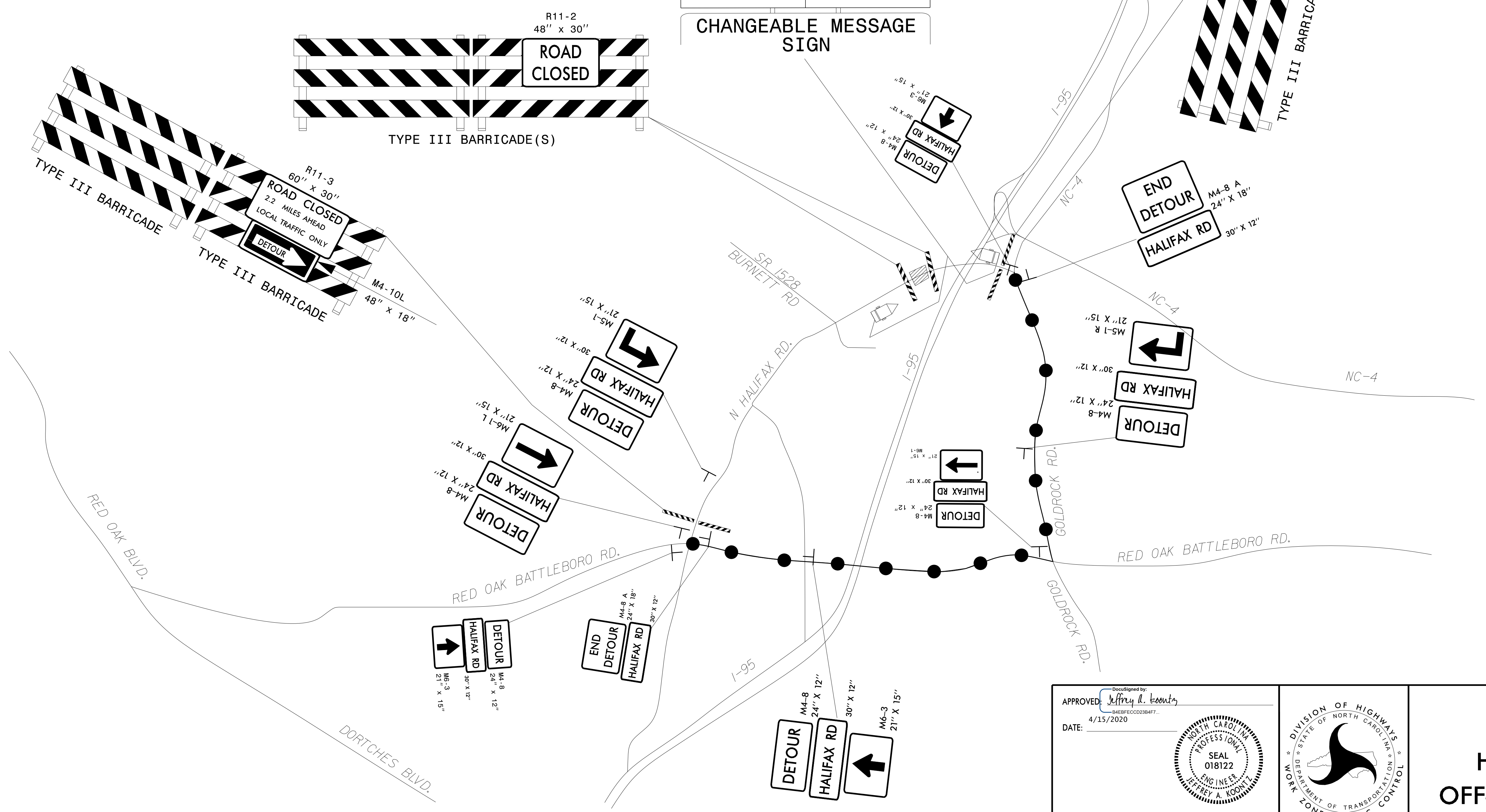
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User: jeff.koontz



PLACE CMS 2 WEEKS IN ADVANCE OF CLOSURE

MESSAGE NO. 1	MESSAGE NO. 2
HALIFAX RD TO CLOSE	DATE TO DATE

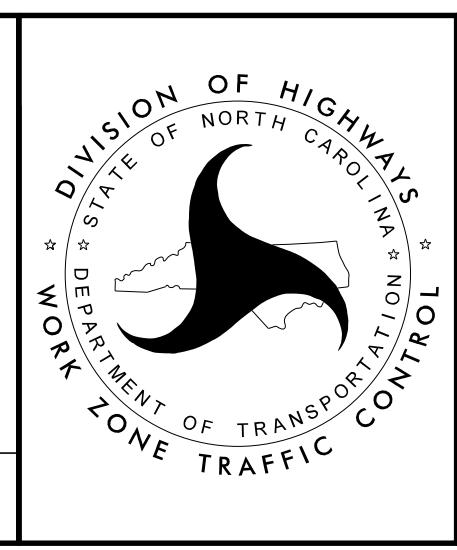
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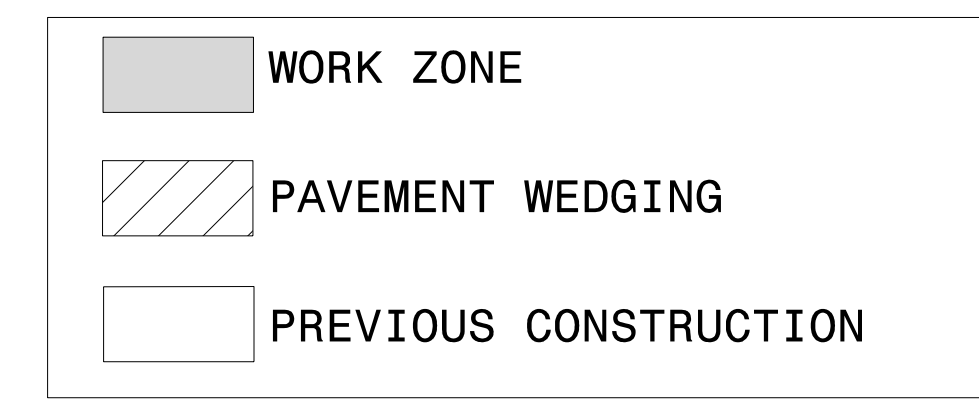
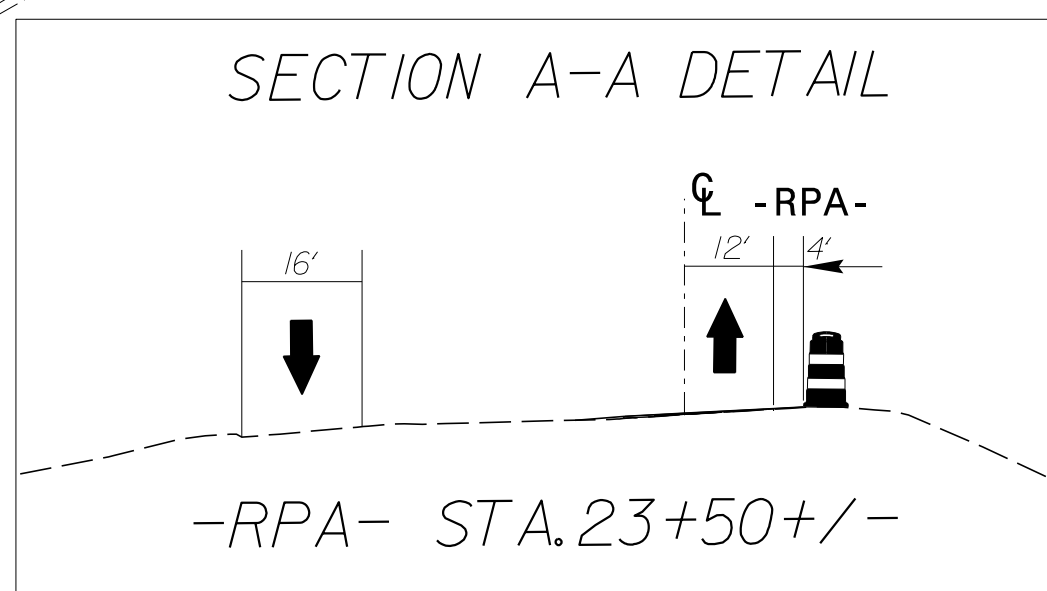
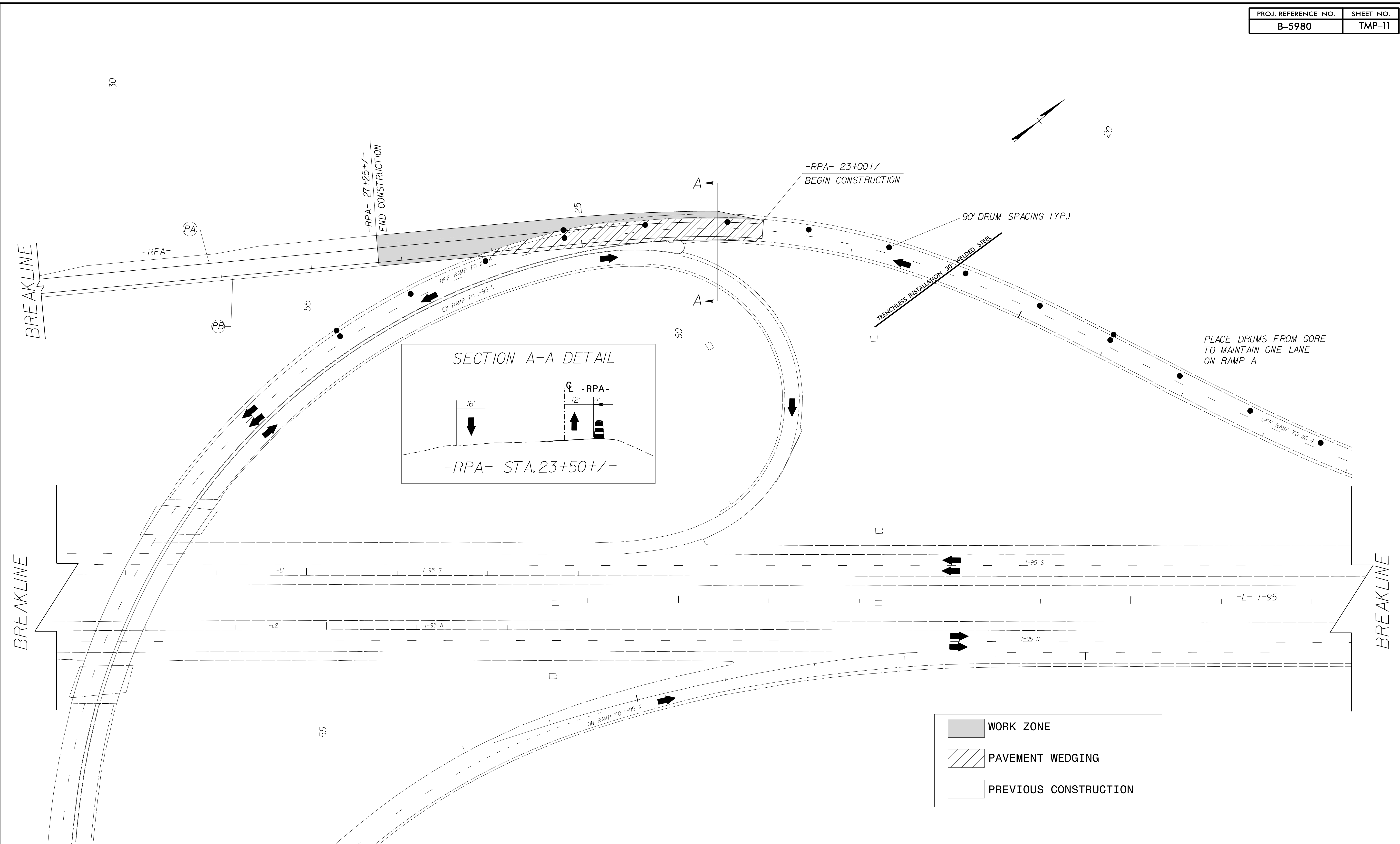
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**PHASE I
 HALIFAX RD
 OFF-SITE DETOUR**

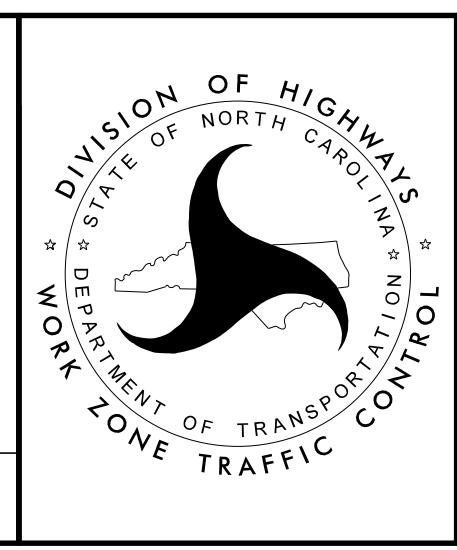


NOTE: THIS SHEET TO BE USED IN CONJUNCTION WITH RSD 1101.02 (SHEET 3 OF 14).

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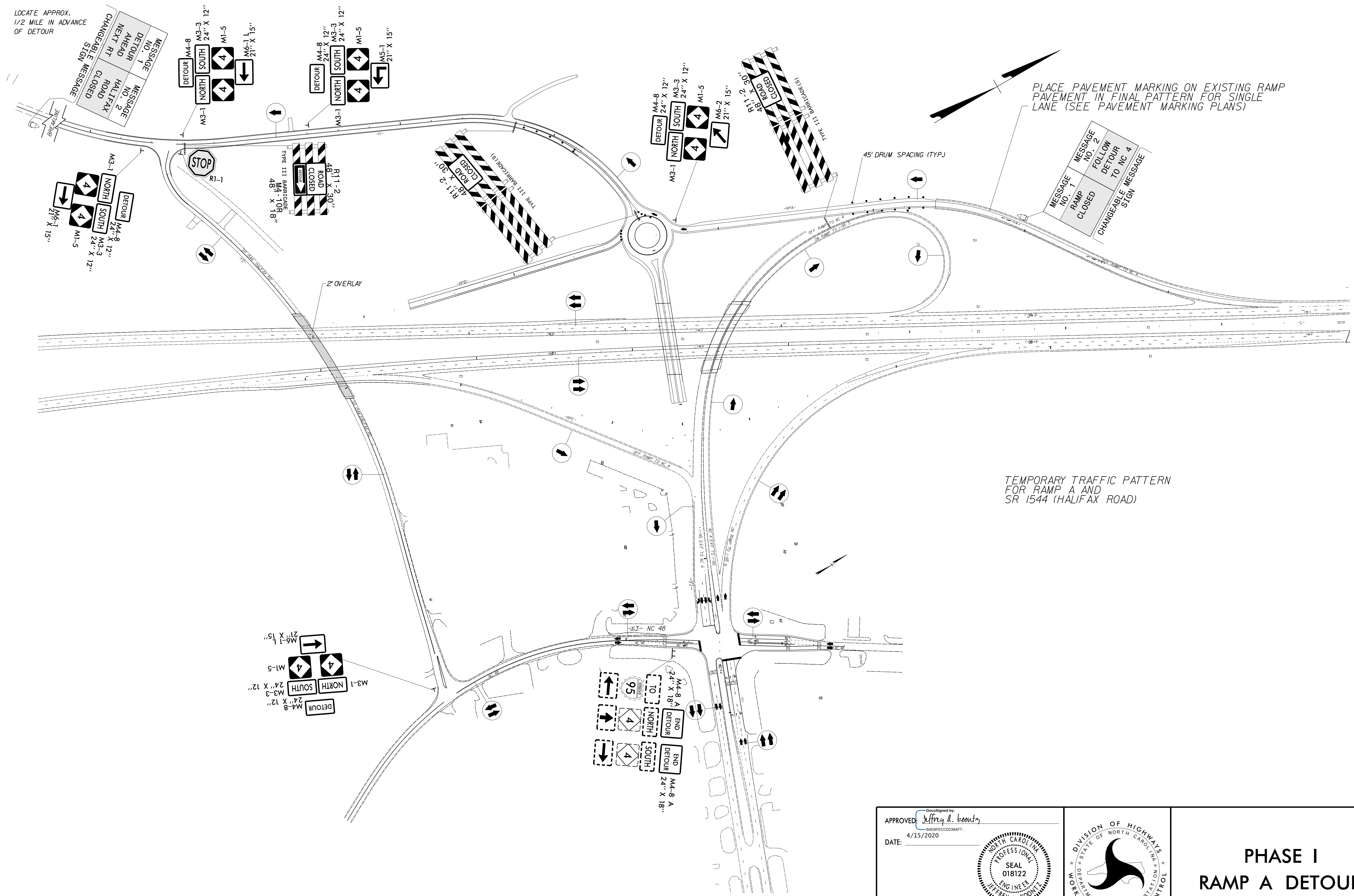
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**PHASE I
 RAMP A, Y1 & Y2
 DETAILS**

LOCATE APPROX.
1/2 MILE IN ADVANCE
OF DETOUR



PLACE PAVEMENT MARKING ON EXISTING RAMP
PAVEMENT IN FINAL PATTERN FOR SINGLE
LANE (SEE PAVEMENT MARKING PLANS)

TEMPORARY TRAFFIC PATTERN
FOR RAMP A AND
SR 1544 (HALIFAX ROAD)

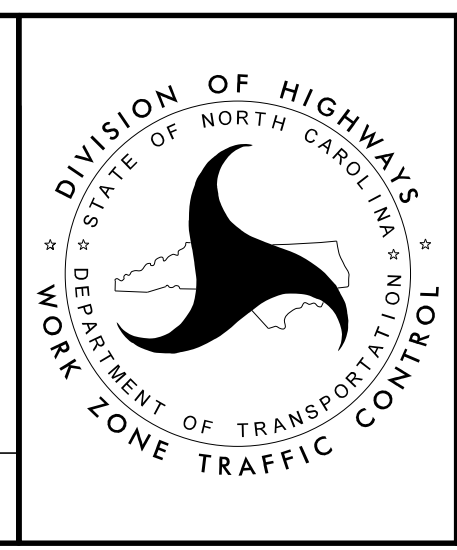
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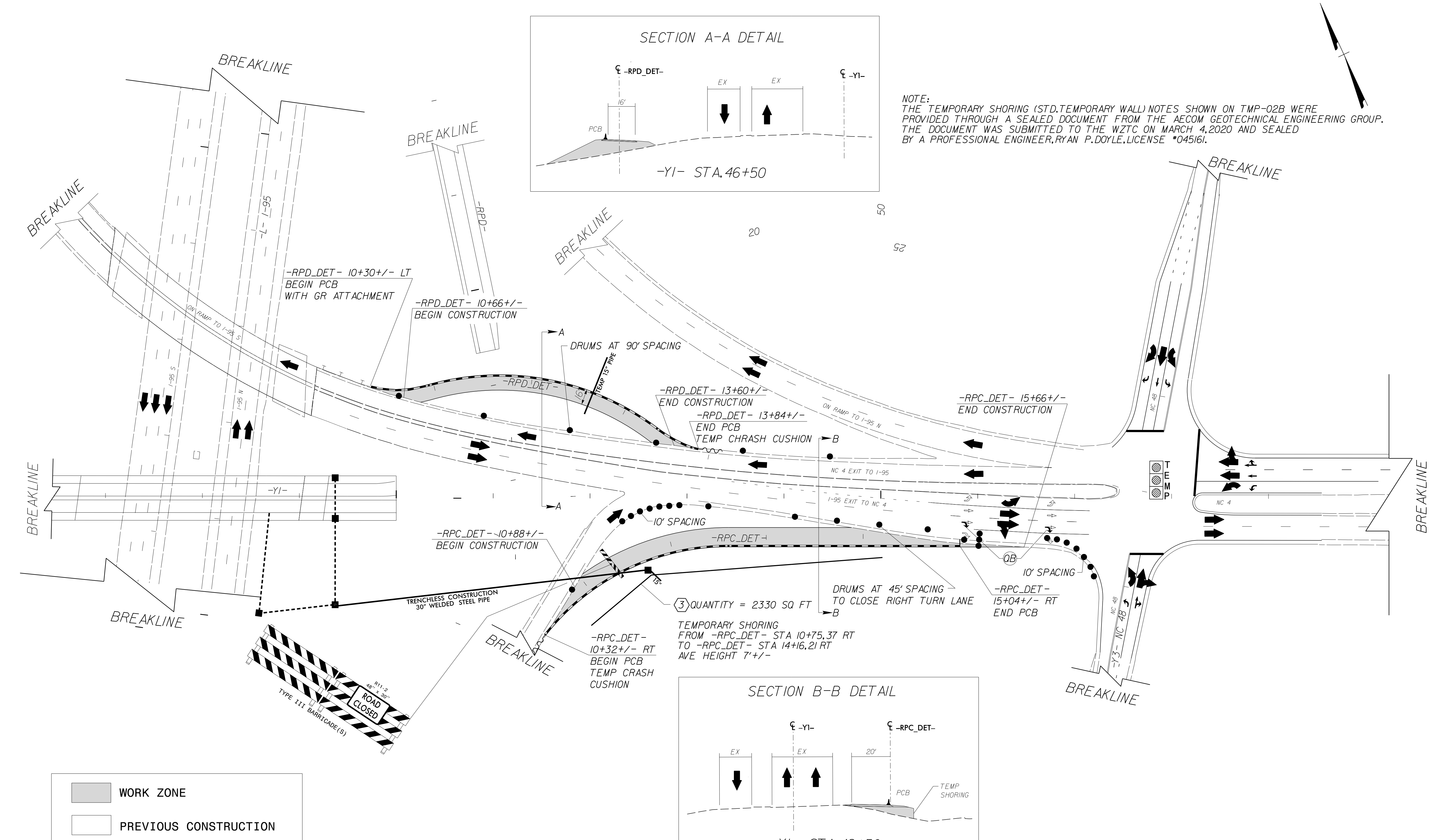
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SEAL
018122
ENGINEER
JEFFREY D. KOONTZ

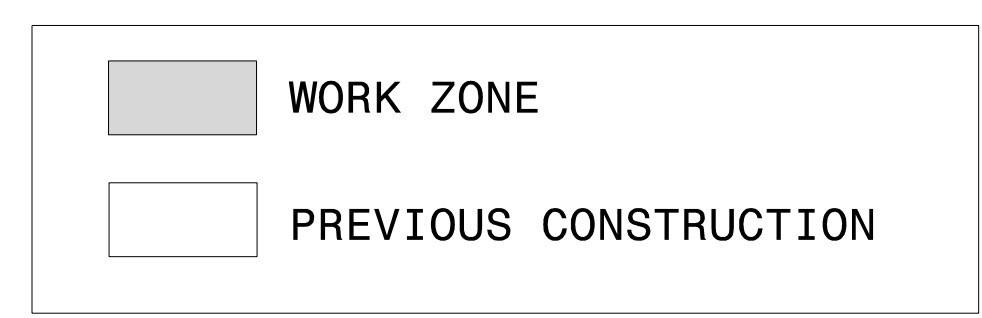
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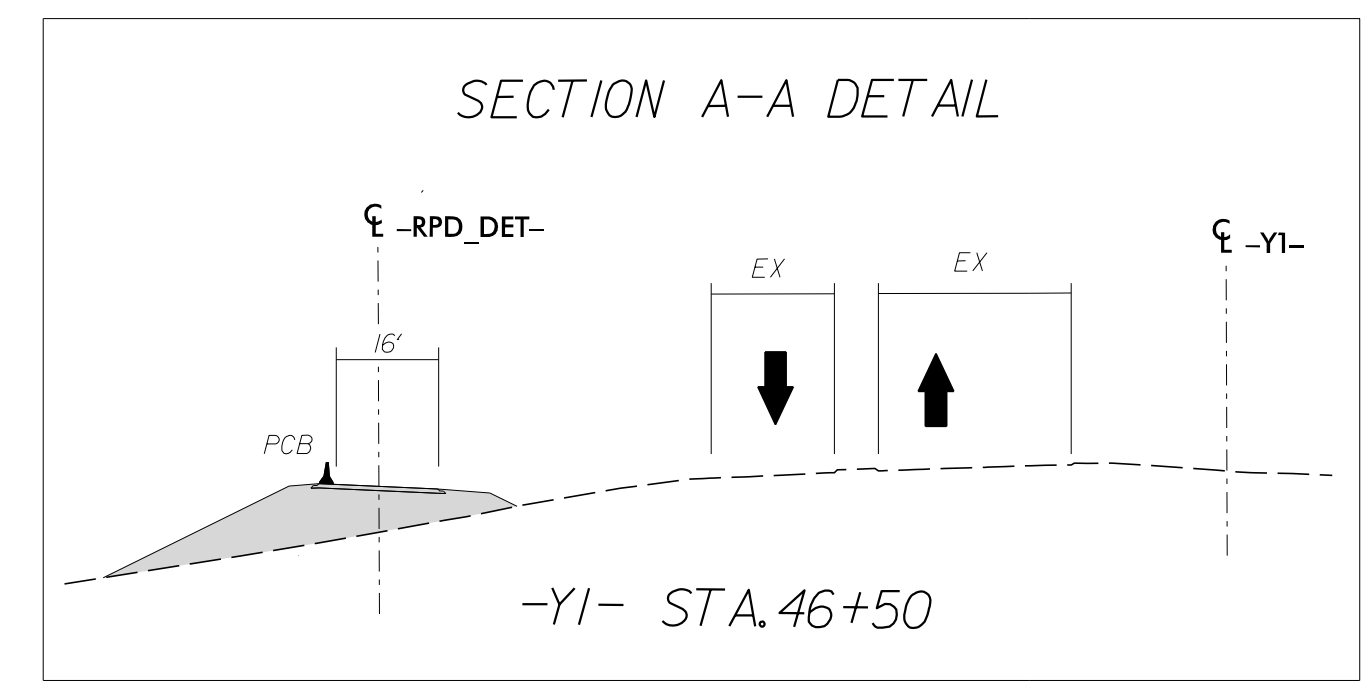
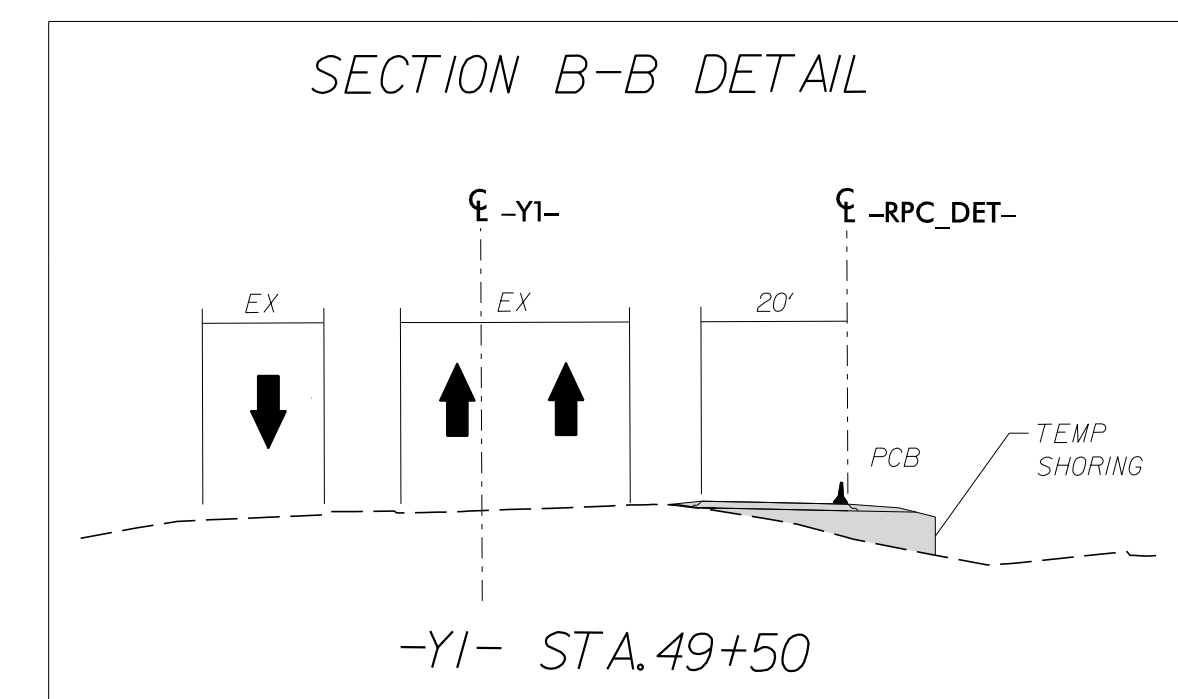
PHASE I RAMP A DETOUR



NOTE:
 THE TEMPORARY SHORING (STD. TEMPORARY WALL) NOTES SHOWN ON TMP-02B WERE PROVIDED THROUGH A SEALED DOCUMENT FROM THE AECOM GEOTECHNICAL ENGINEERING GROUP. THE DOCUMENT WAS SUBMITTED TO THE WZTC ON MARCH 4, 2020 AND SEALED BY A PROFESSIONAL ENGINEER, RYAN P. DOYLE, LICENSE #045161.

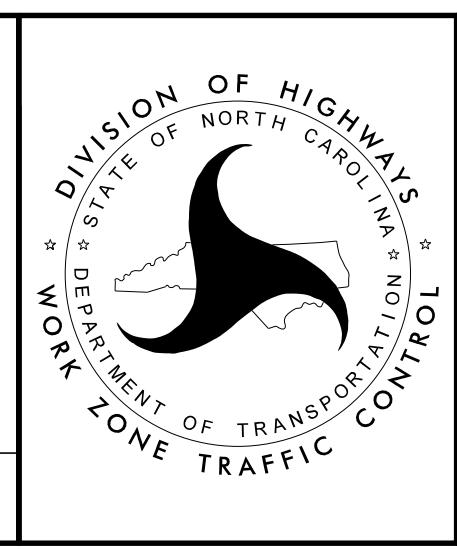


NOTE: THIS SHEET TO BE USED IN CONJUNCTION WITH RSD 1101.03 (SHEET 8 OF 9)



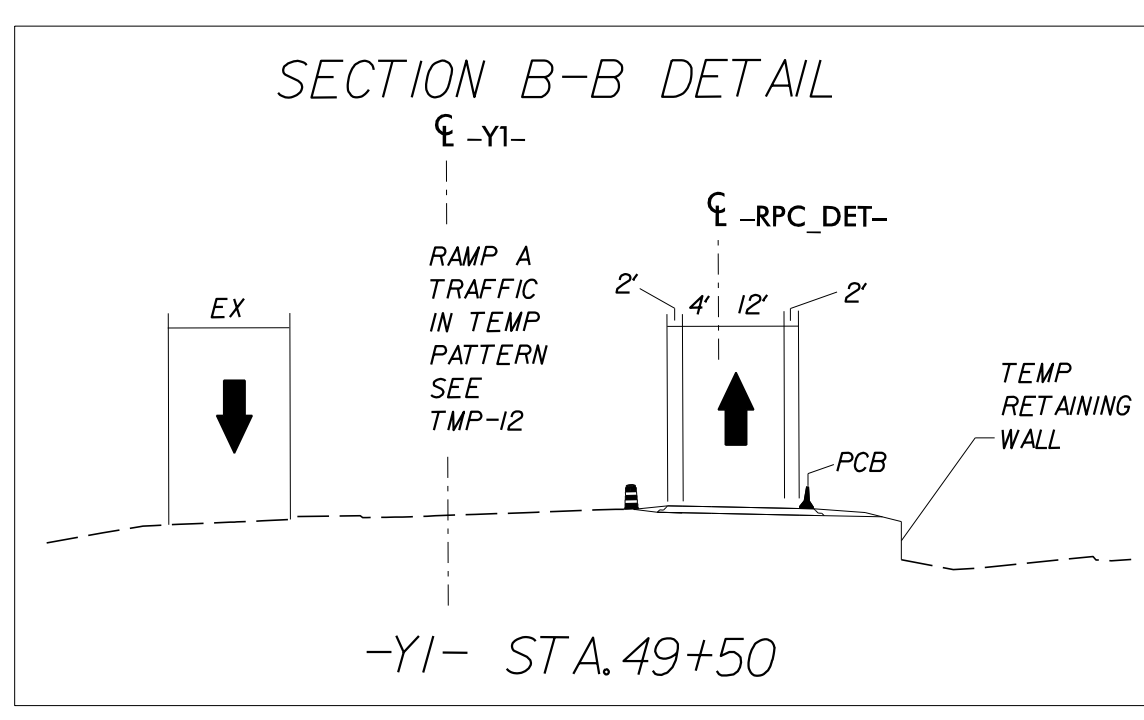
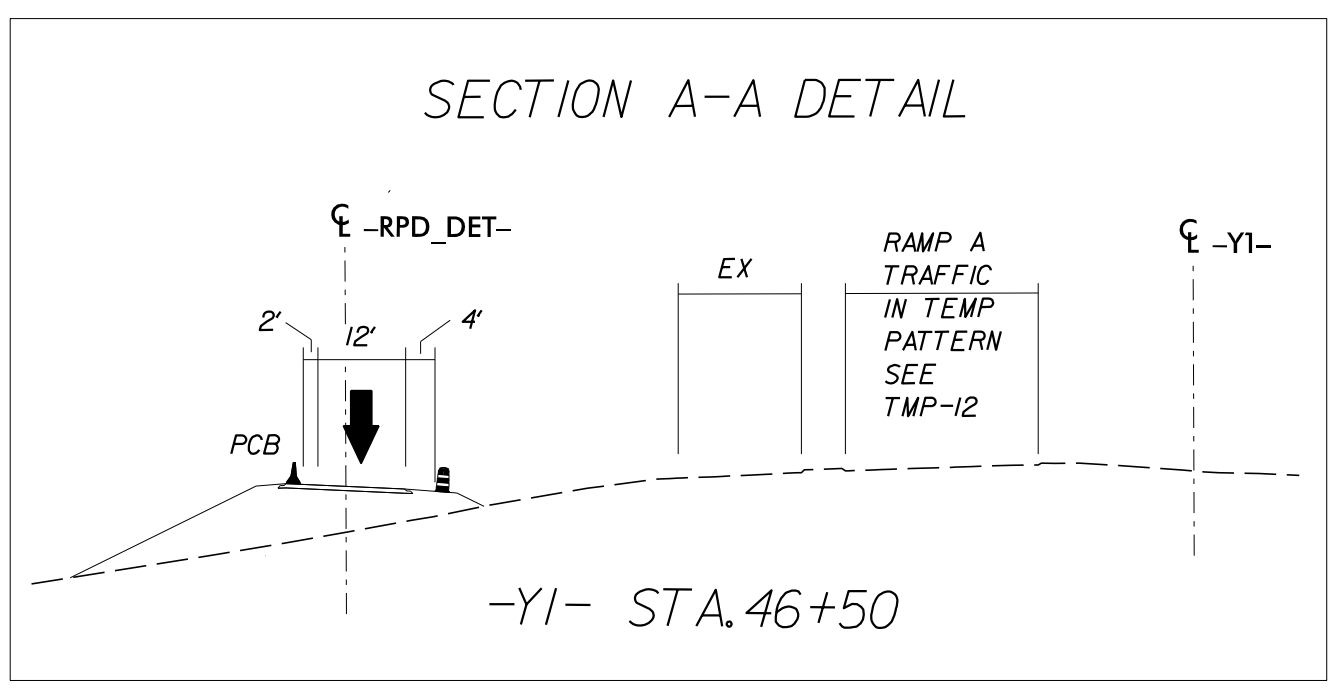
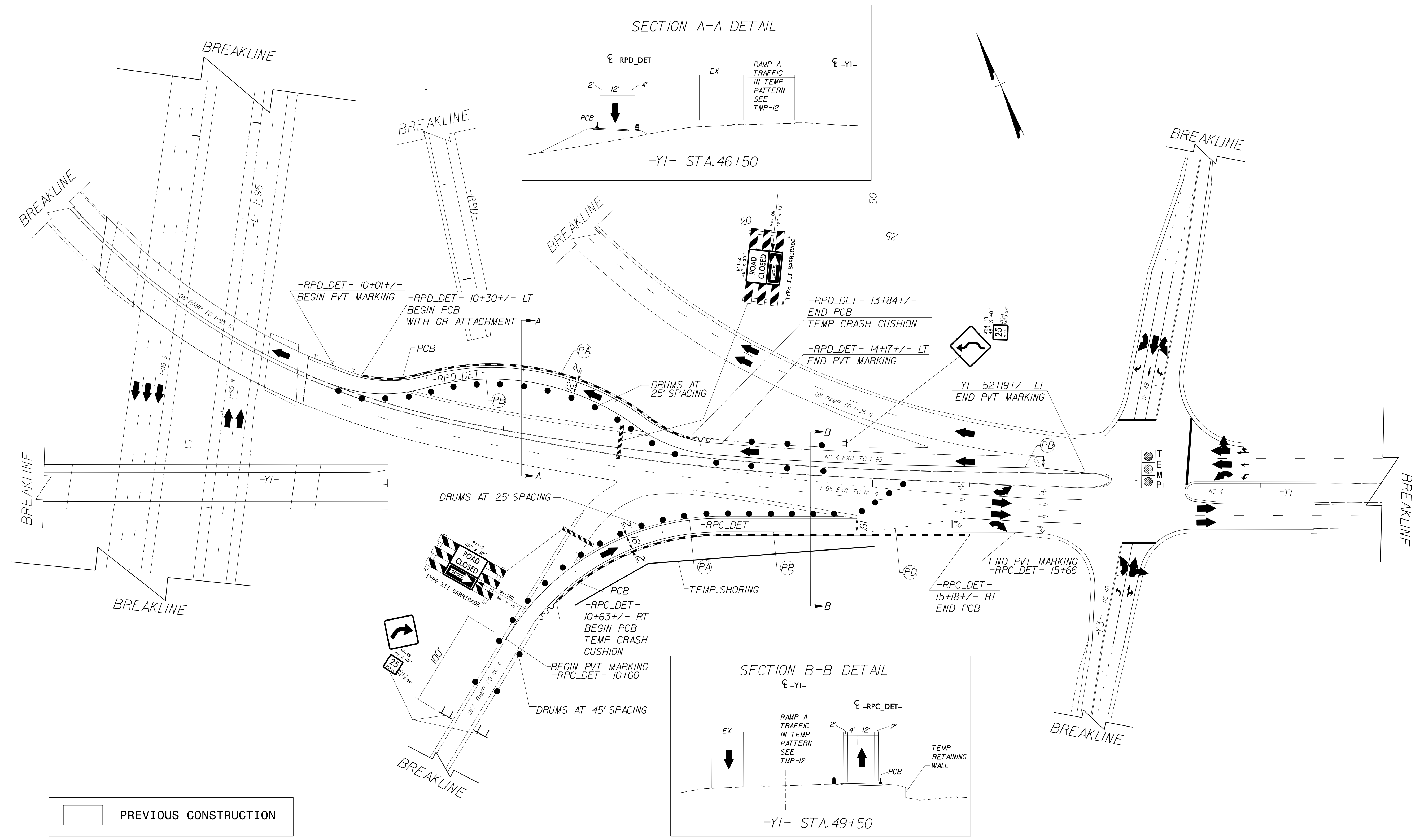
3/4/2020
 R:\TrafficControl\CPA\B5980.TC.TMP\13_Phase II_Runaround.dgn
 User: jeff.koontz

APPROVED: *Jeffrey D. Koontz*
 DATE: 4/15/2020
 SEAL 018122
 PROFESSIONAL ENGINEER
 STATE OF NORTH CAROLINA
 JEFFREY D. KOONTZ



**PHASE II
 RAMPS D & C
 RUNAROUND DETOUR**

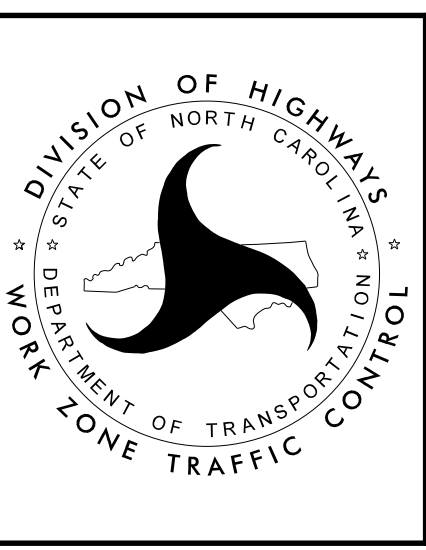
DOCUMENT NOT CONSIDERED FINAL
 UNLESS ALL SIGNATURES COMPLETED



PREVIOUS CONSTRUCTION

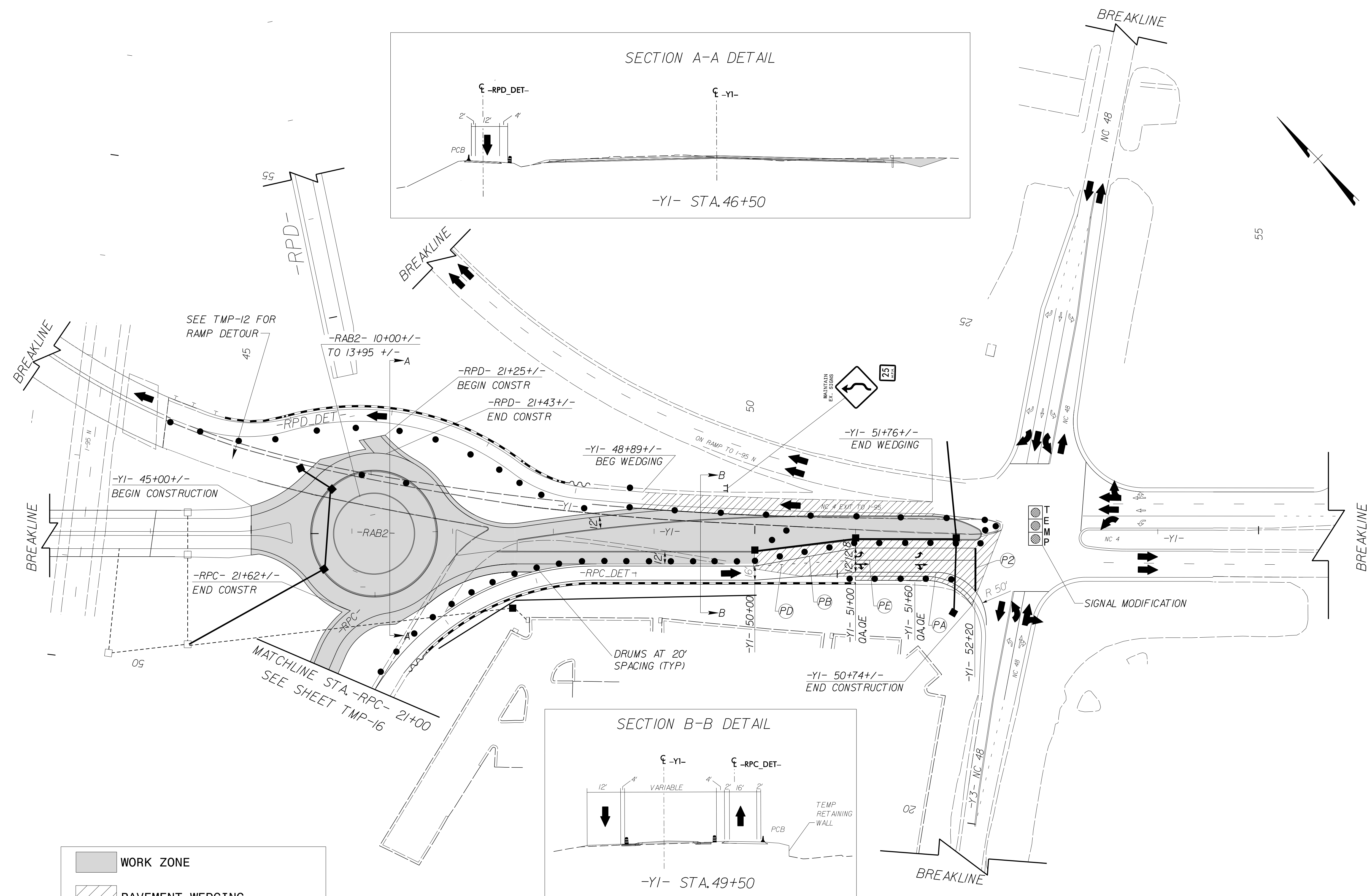
3/4/2020
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 User: jeff.koontz

APPROVED: *Jeffrey A. Koontz*
 DATE: 4/15/2020
 NORTH CAROLINA PROFESSIONAL ENGINEER SEAL 018122
 JEFFREY A. KOONTZ



PHASE II
RAMP B & C
DETOUR DETAILS

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

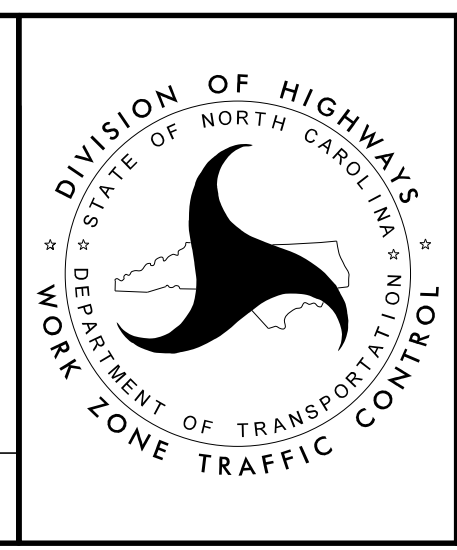


	WORK ZONE
	PAVEMENT WEDGING
	PREVIOUS CONSTRUCTION

APPROVED: *Jeffrey A. Koontz*
 DATE: 4/15/2020

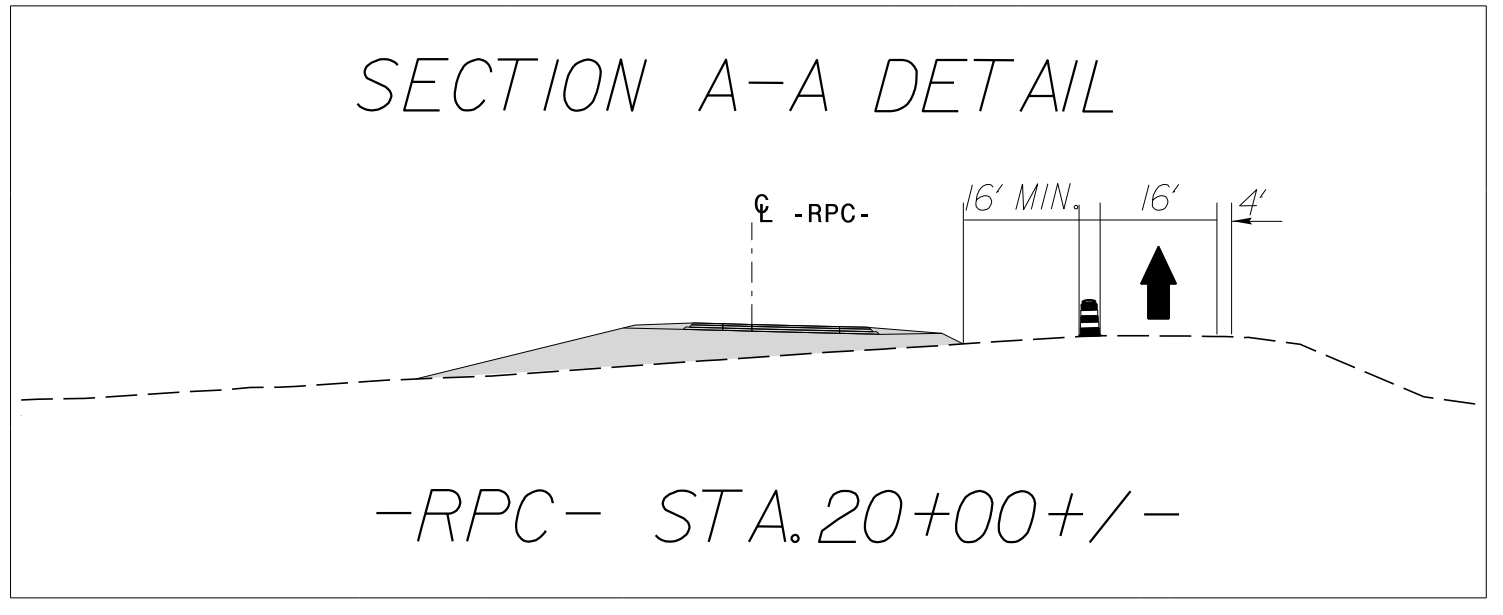
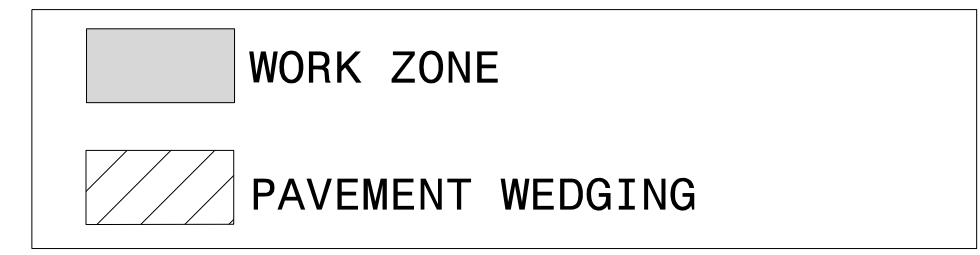
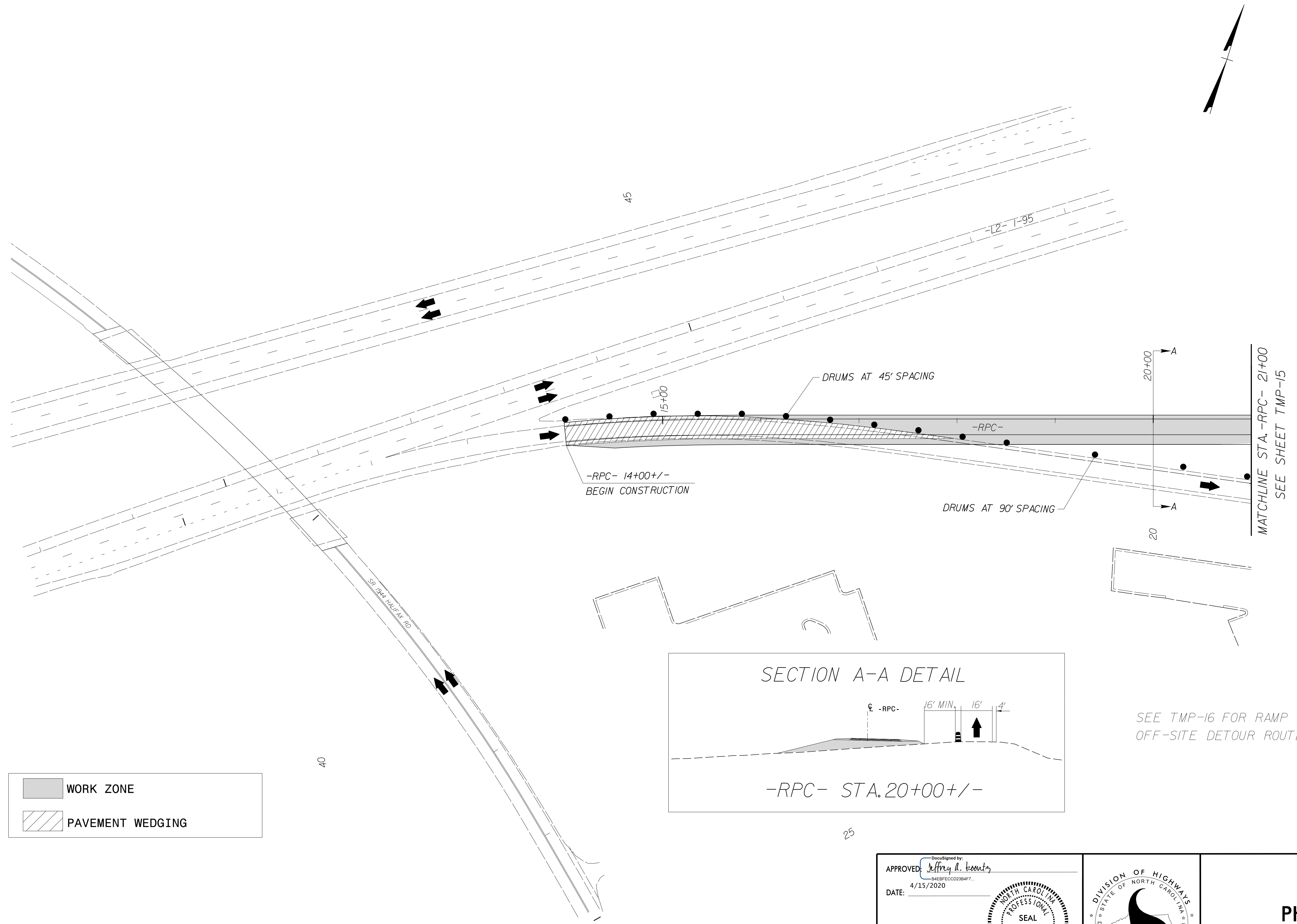
JEFFREY A. KOONTZ
 PROFESSIONAL ENGINEER
 SEAL 018122
 NORTH CAROLINA
 ENGINEERING

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED



PHASE II
-YI- DETAIL

2/21/2020
 R:\TrafficControl\TrafficControl\B5980.TC.TMP\J5_Phase II_YI.dgn
 User:jeff.koontz



SEE TMP-16 FOR RAMP
OFF-SITE DETOUR ROUTE

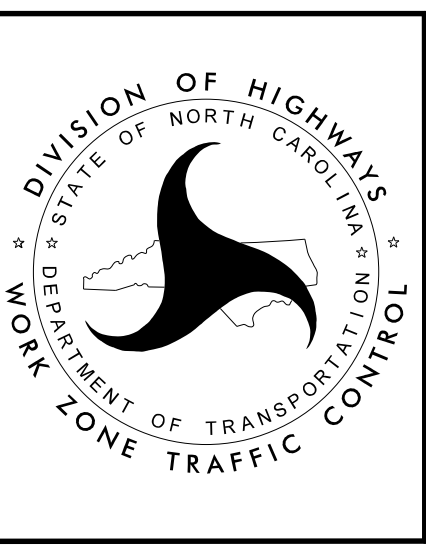
2/21/2020
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 User: jeff.koontz

APPROVED: *Jeffrey A. Koontz*
 DATE: 4/15/2020

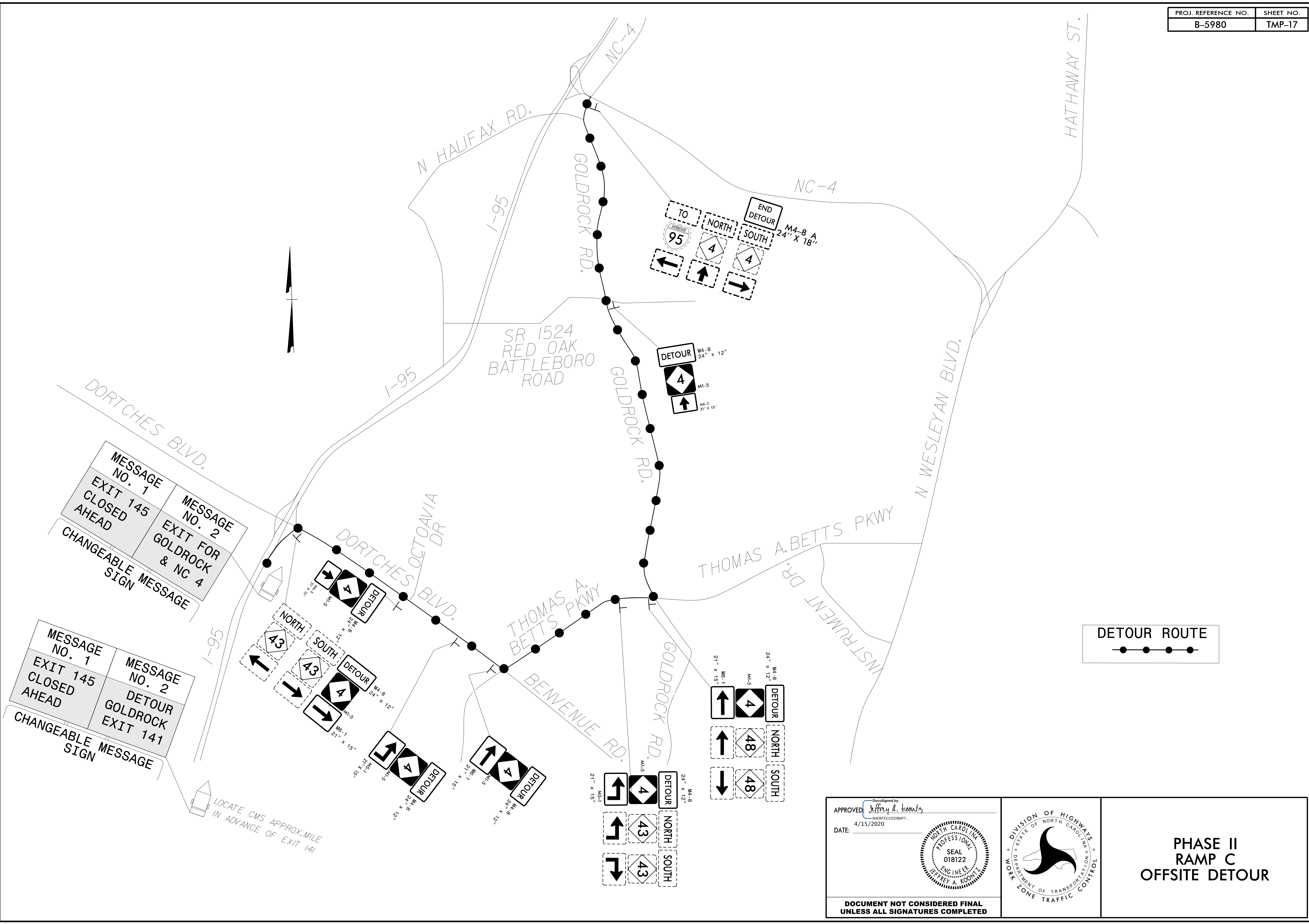
DocuSigned by:
 Jeffrey A. Koontz
 B4EBFECC2384F7...

SEAL
 018122
 ENGINEER
 JEFFREY A. KOONTZ

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



**PHASE II
 RAMP C DETAIL**



MESSAGE NO. 1
EXIT 145
CLOSED
AHEAD
CHANGEABLE MESSAGE SIGN

MESSAGE NO. 2
EXIT FOR
GOLDROCK
& NC 4

MESSAGE NO. 1
EXIT 145
CLOSED
AHEAD
CHANGEABLE MESSAGE SIGN

MESSAGE NO. 2
DETOUR
GOLDROCK
EXIT 141

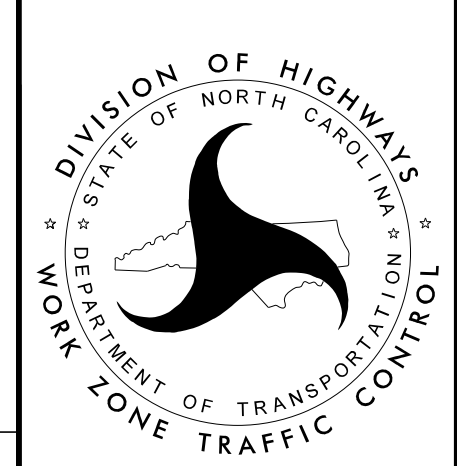
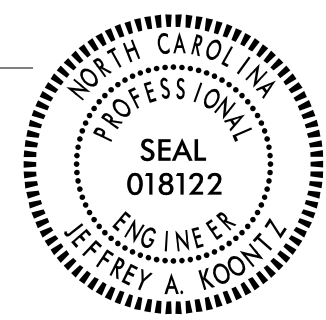
LOCATE CMS APPROX. MILE
IN ADVANCE OF EXIT 141

DETOUR ROUTE

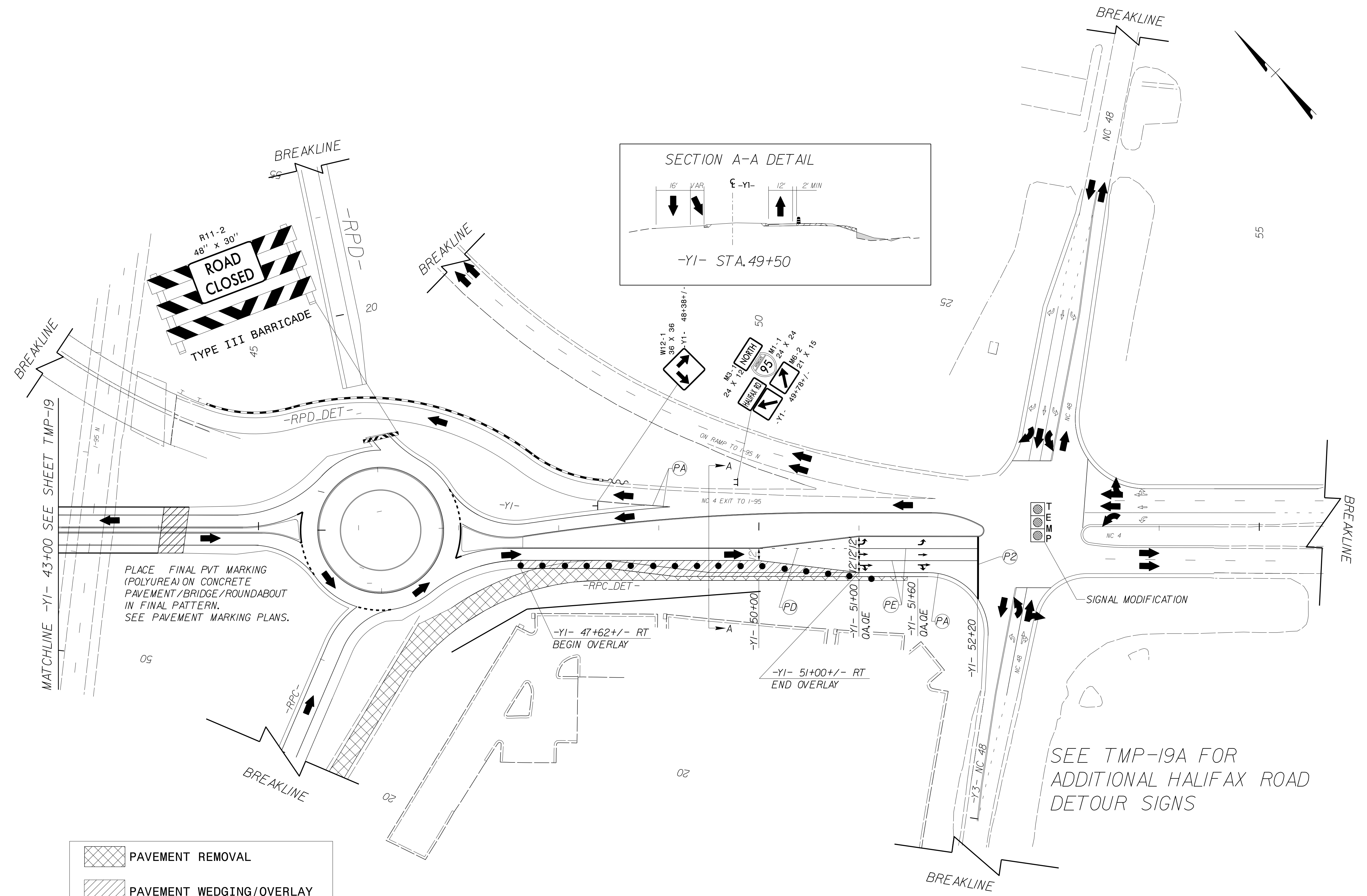
2/21/2020
 R:\Traffic\TrafficControl\B5980_TC_TMP_17_Detour_RPC.dgn
 User:jeff.koontz

APPROVED: *Jeffrey D. Koontz*
 DATE: 4/15/2020

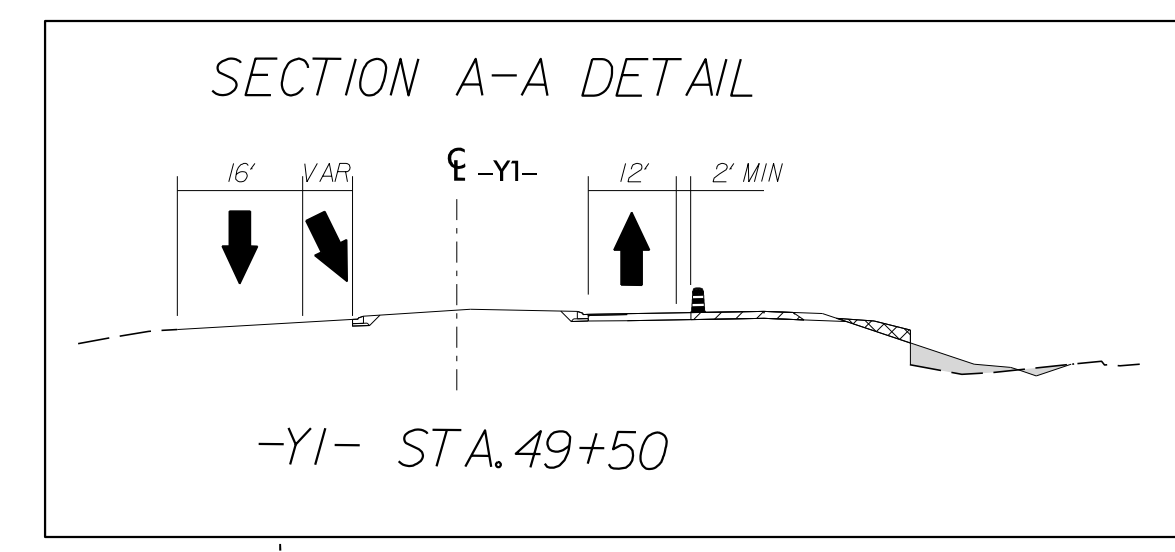
DOCUMENT NOT CONSIDERED FINAL
 UNLESS ALL SIGNATURES COMPLETED



**PHASE II
 RAMP C
 OFFSITE DETOUR**

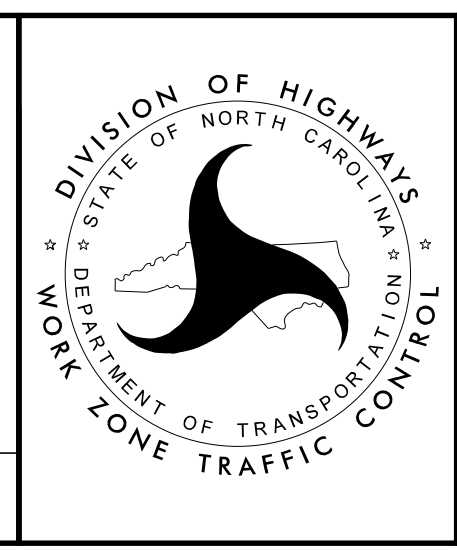


	PAVEMENT REMOVAL
	PAVEMENT WEDGING/OVERLAY
	PREVIOUS CONSTRUCTION



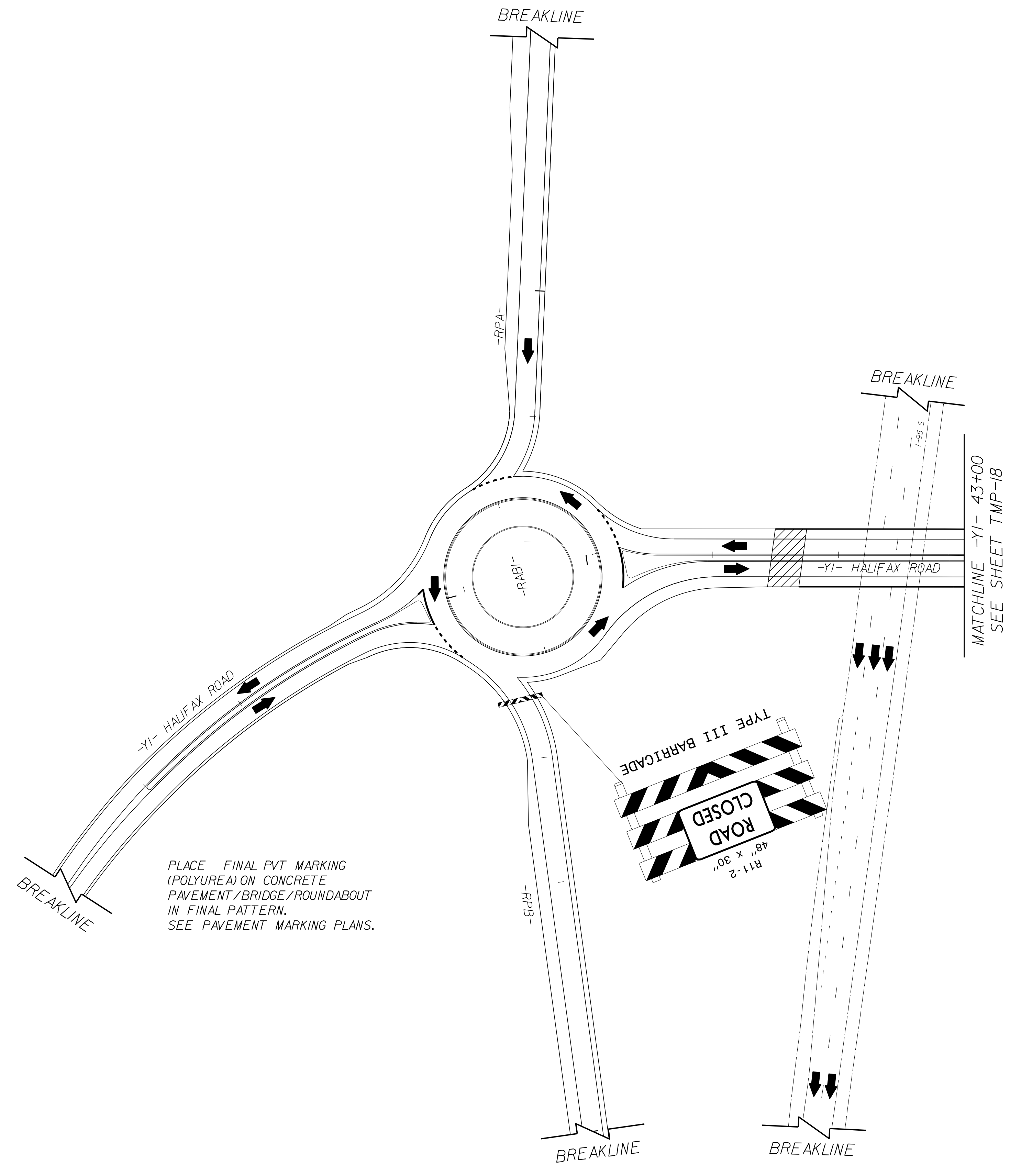
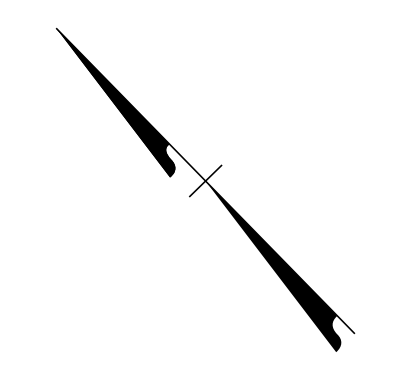
2/21/2020
 R:\TrafficControl\TrafficControl\B5980.TC_TMP_18_Phase II\Finish Y1.dgn
 User:jeff.koontz

APPROVED: *Jeffrey A. Koontz*
 DATE: 4/15/2020




PHASE II
-Y1- DETAIL

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED




PLACE FINAL PVT MARKING (POLYUREA) ON CONCRETE PAVEMENT / BRIDGE / ROUNDABOUT IN FINAL PATTERN. SEE PAVEMENT MARKING PLANS.

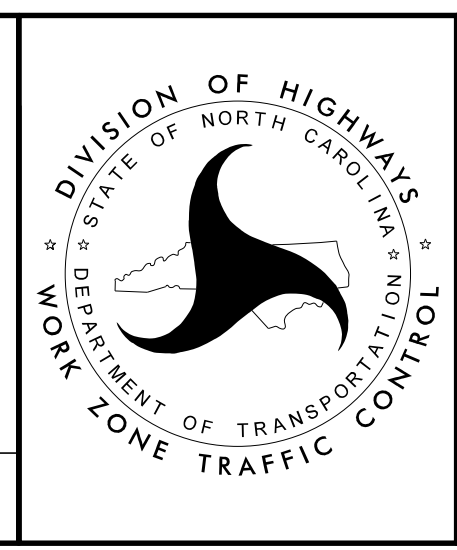
 PREVIOUS CONSTRUCTION

2/21/2020
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 User: jeff.koontz

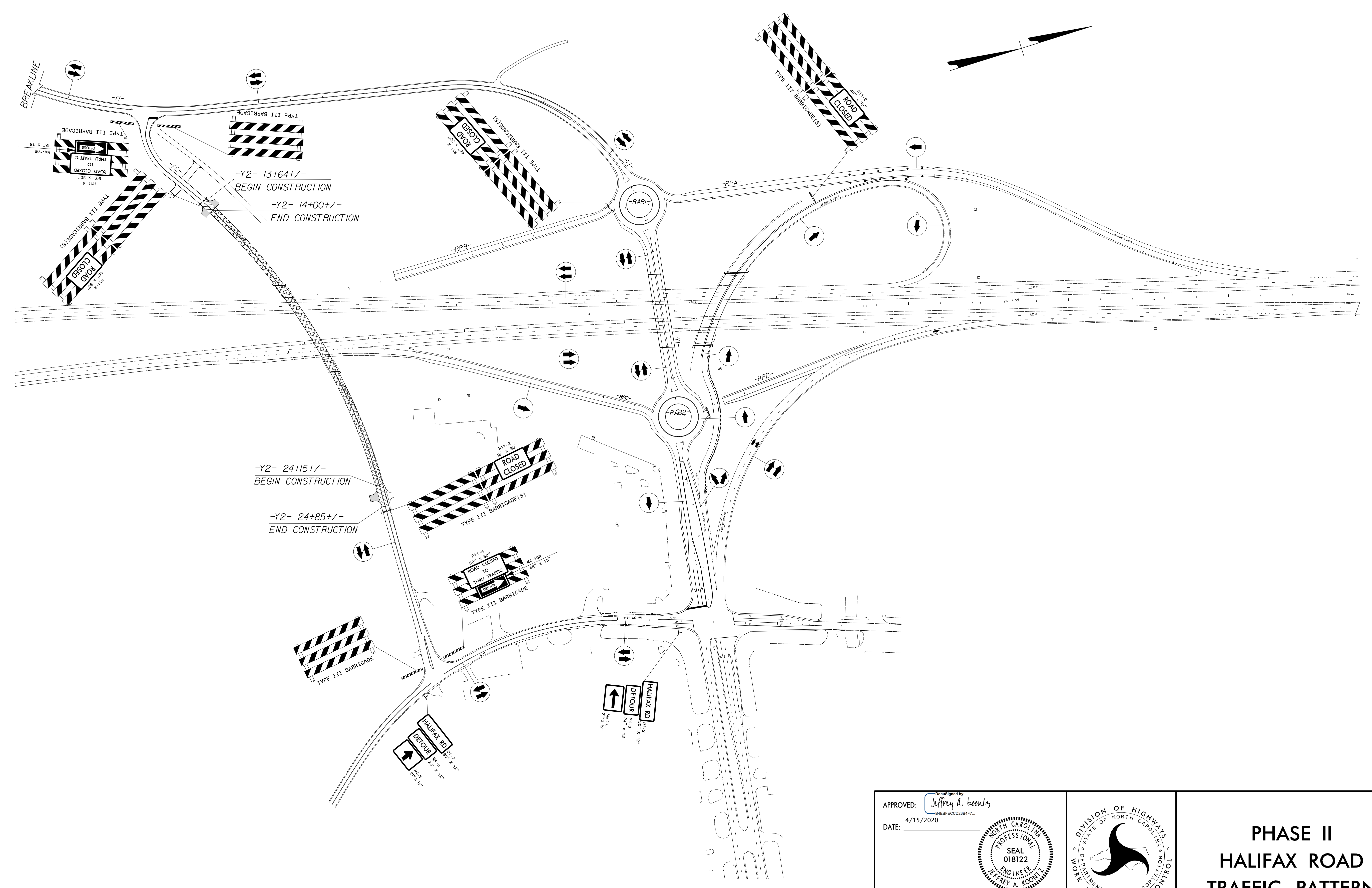
APPROVED: *Jeffrey D. Koontz*
DocuSigned by: Jeffrey D. Koontz
B4EBFECC2384F7...
 DATE: 4/15/2020



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



**PHASE II
-Y1- DETAIL**

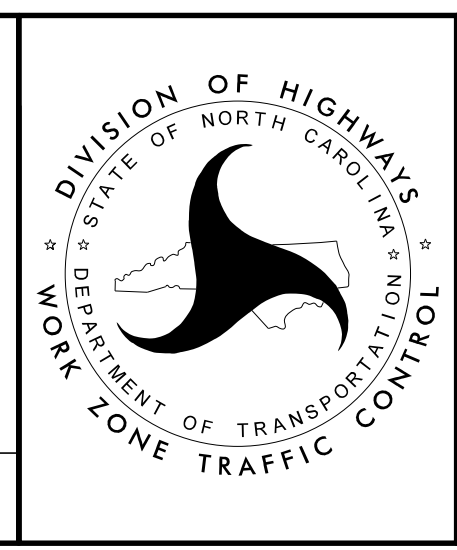


2/21/2020
 R:\TrafficControl\CP\B5980.TC_TMP_19A_Phase II Halifax Detour.dgn
 User: jeff.koontz

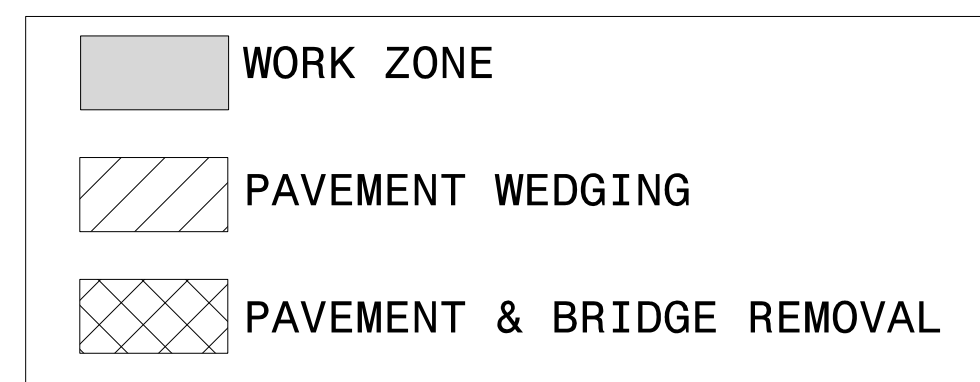
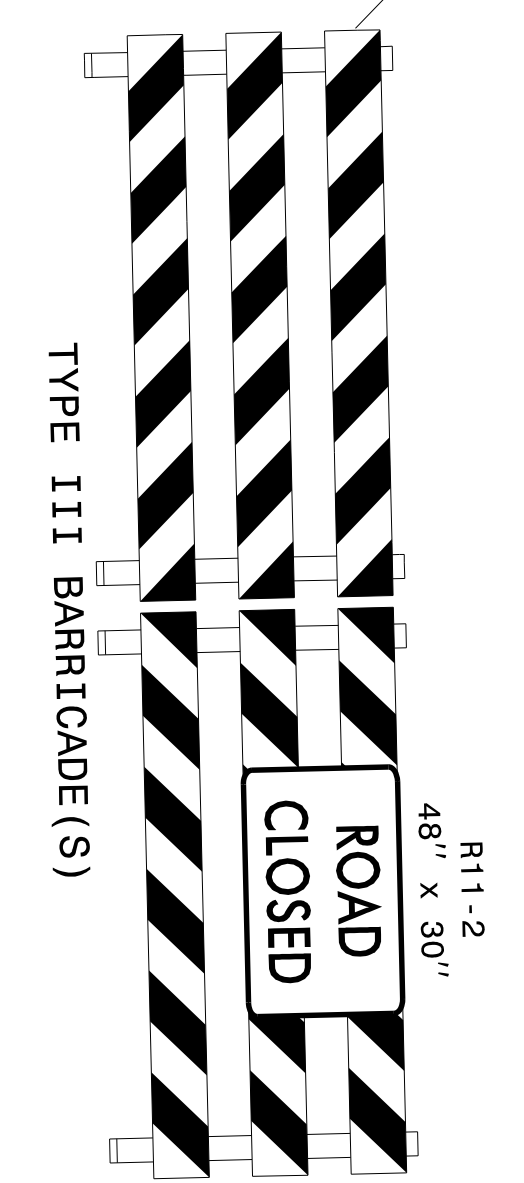
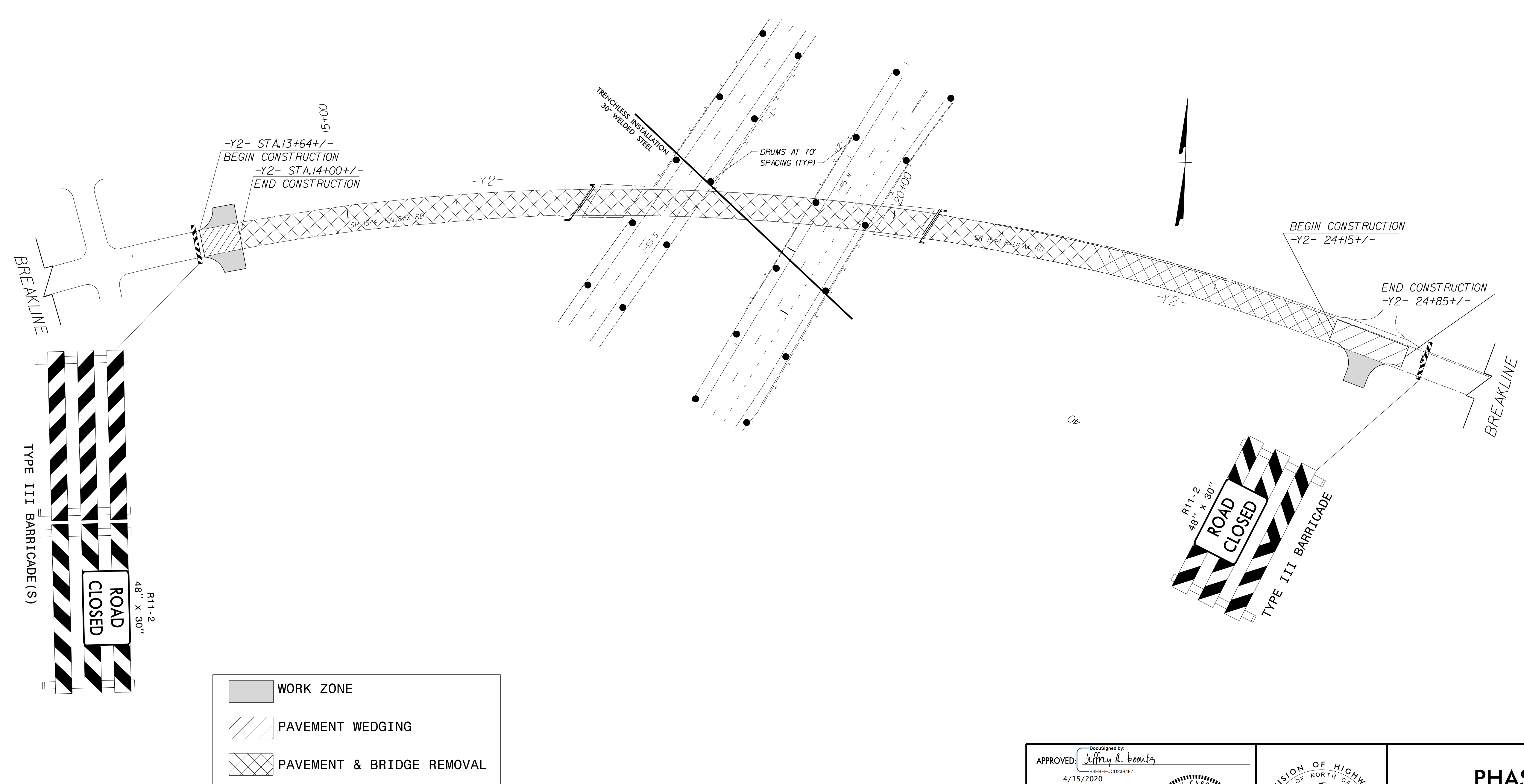
APPROVED: *Jeffrey D. Koontz*
DocuSigned by:
Jeffrey D. Koontz
B4EFEC023BAF7

DATE: 4/15/2020

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

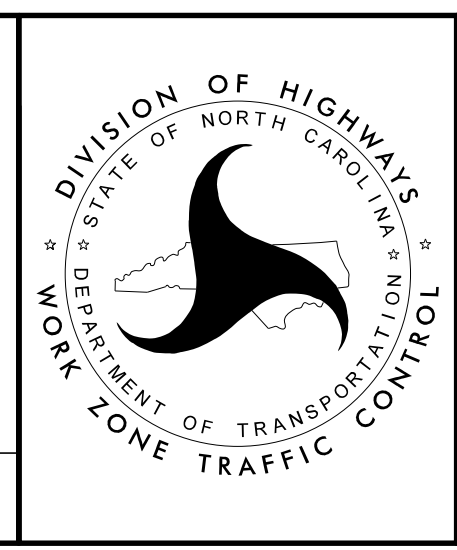


PHASE II HALIFAX ROAD TRAFFIC PATTERN



2/21/2020
 R:\Traffic\TrafficControl\TCP\B5980.TC_TMP_20_Phase III\RABC.dgn
 User:jeff.koontz

APPROVED: *Jeffrey D. Koontz*
 DATE: 4/15/2020

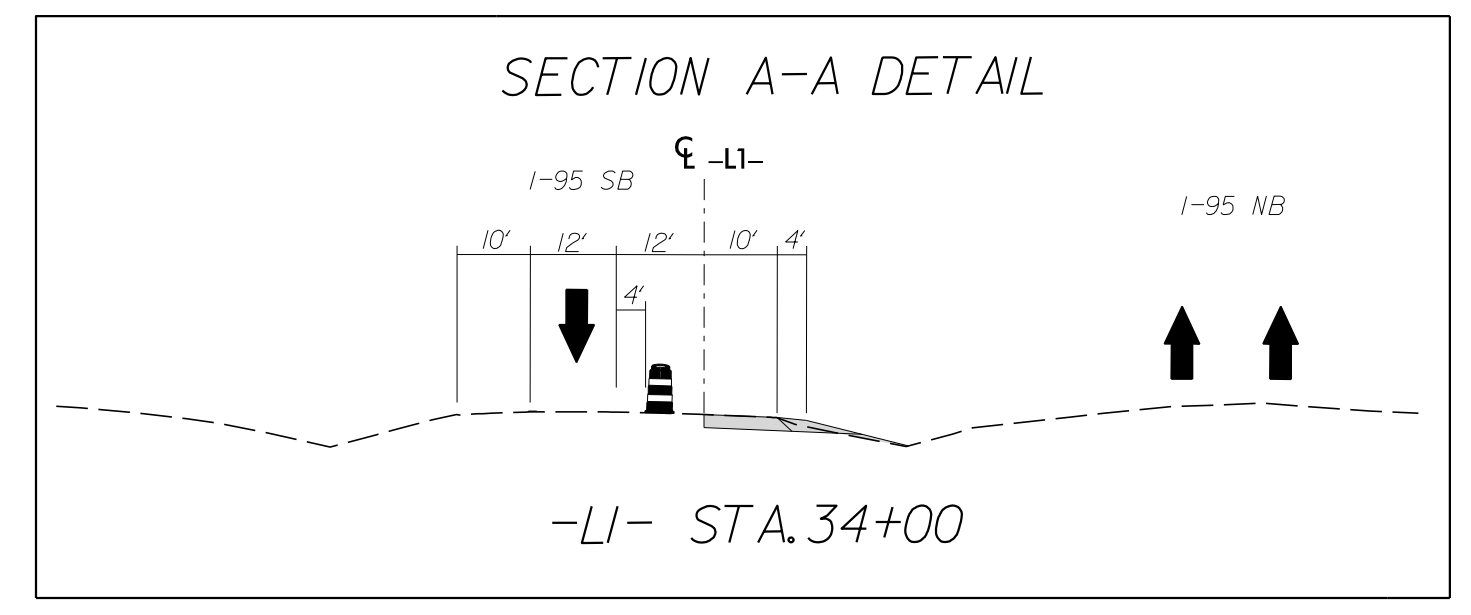
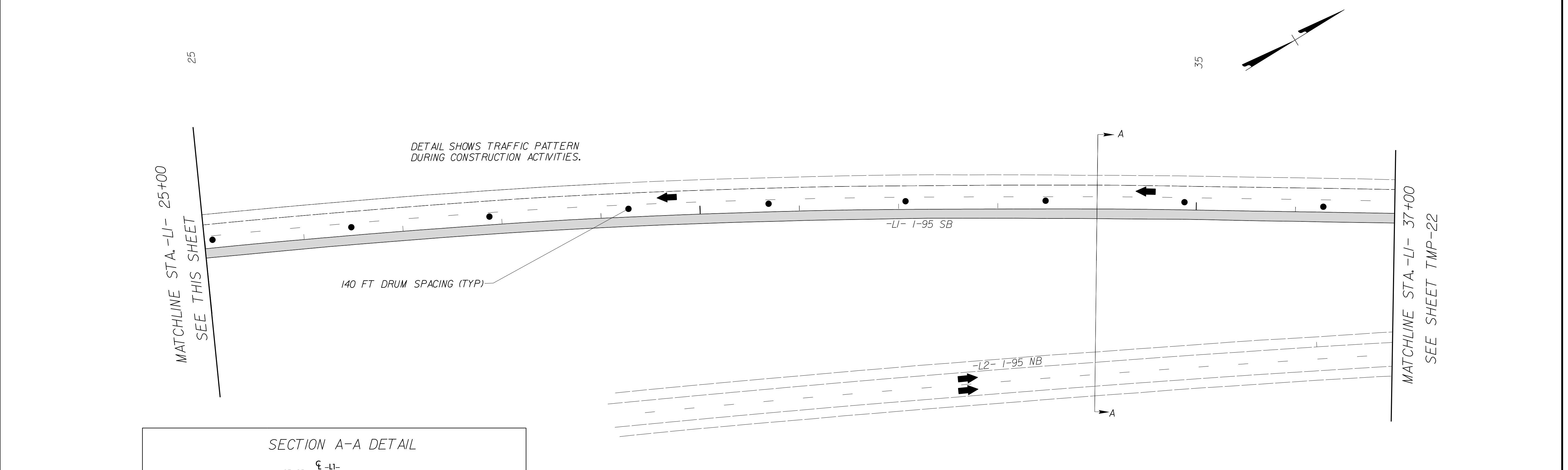
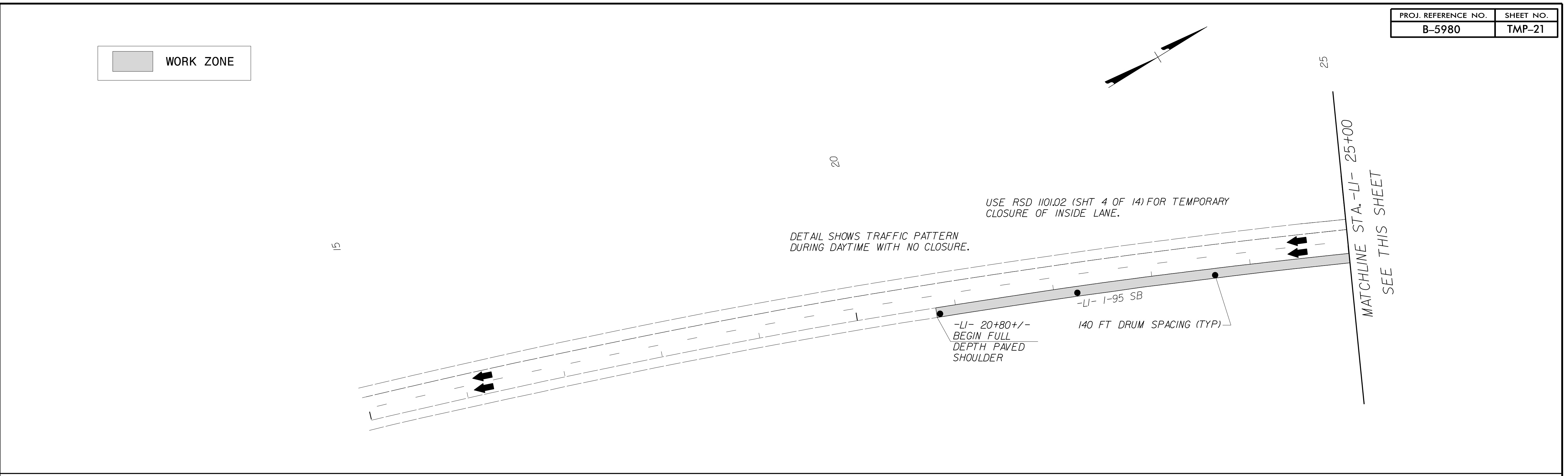


PHASE III
HALIFAX RD BRIDGE
REMOVAL & -Y2-
DETAIL

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

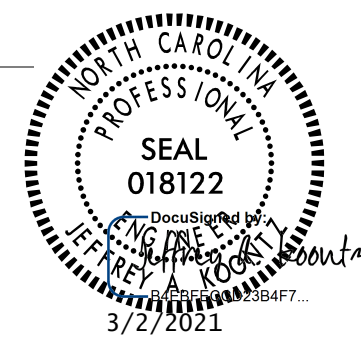
PROJ. REFERENCE NO.	SHEET NO.
B-5980	TMP-21

 WORK ZONE

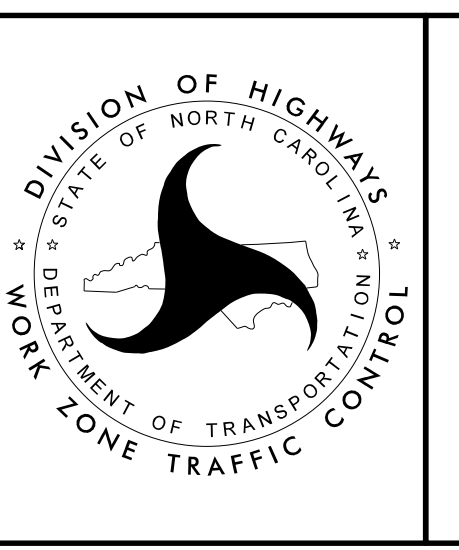


APPROVED: _____

DATE: _____



DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

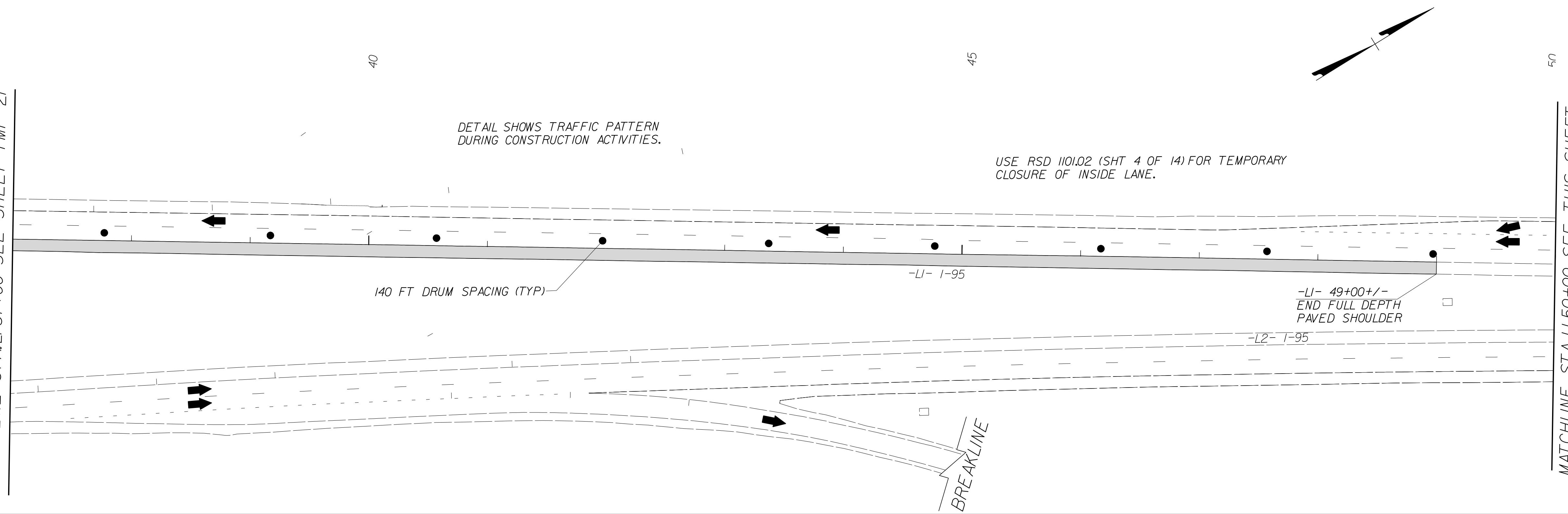


**PHASE III
TEMP. PAVEMENT
-L1- DETAILS**

4/14/2020 R:\TrafficControl\CP\B5980.TC_TMP_21_Phase III_L1_Temp_Pavement.dgn User:kasey_mccooy

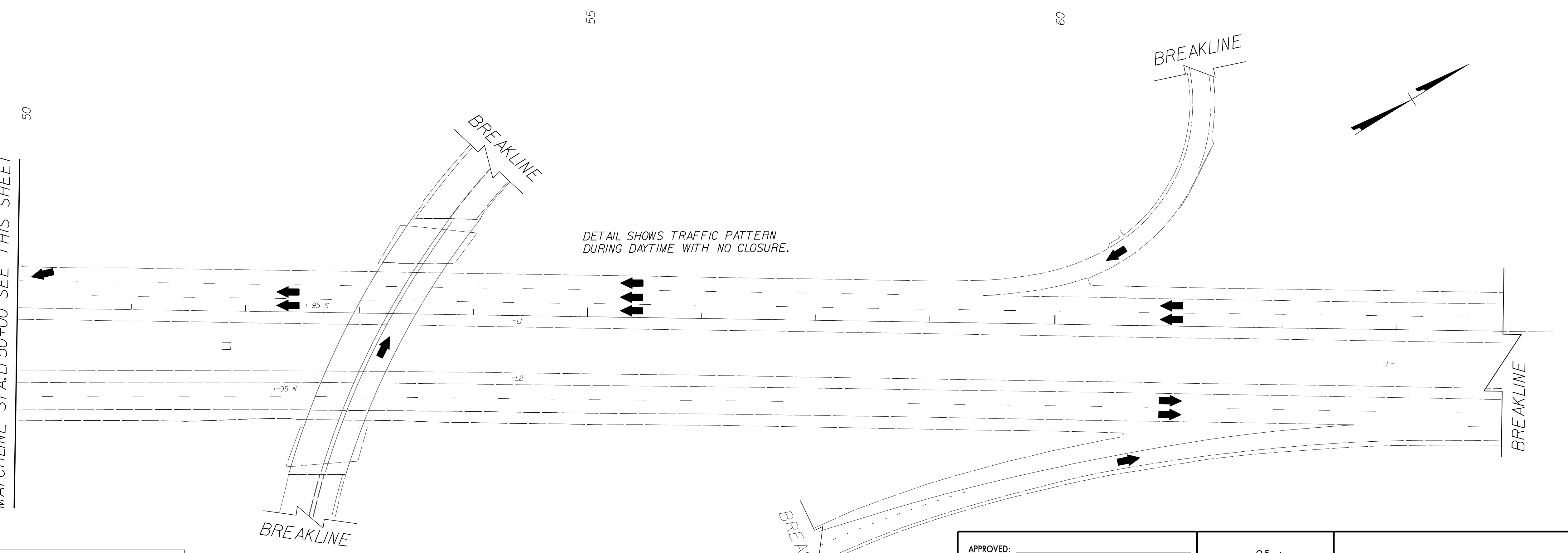
PROJ. REFERENCE NO. B-5980	SHEET NO. TMP-22
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MATCHLINE STA. LI 37+00 SEE SHEET TMP-21



MATCHLINE STA. LI 50+00 SEE THIS SHEET

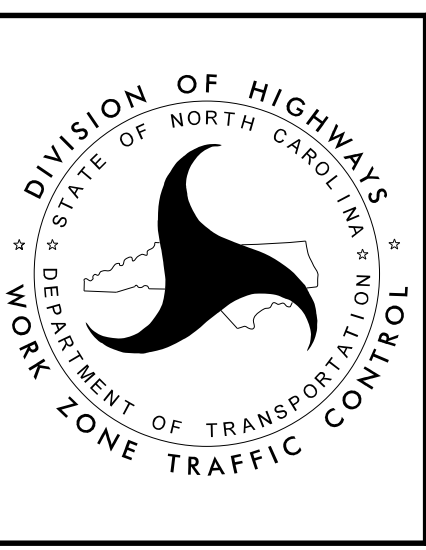
MATCHLINE STA. LI 50+00 SEE THIS SHEET



WORK ZONE

APPROVED: _____
DATE: _____

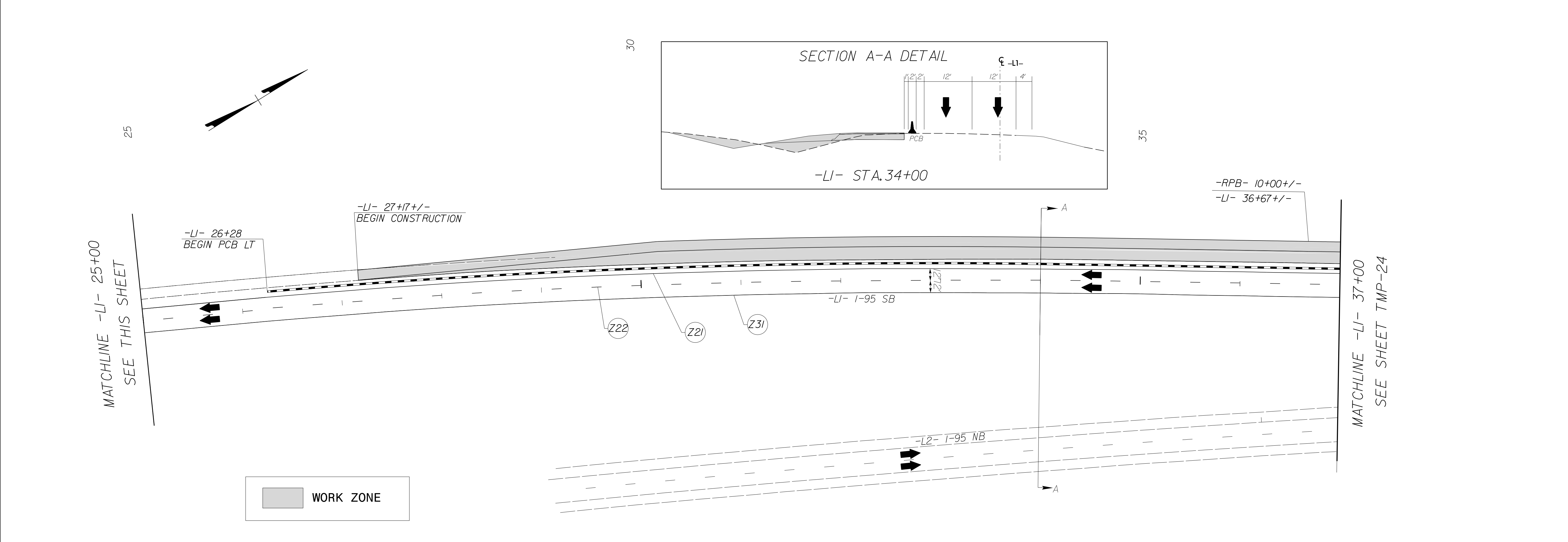
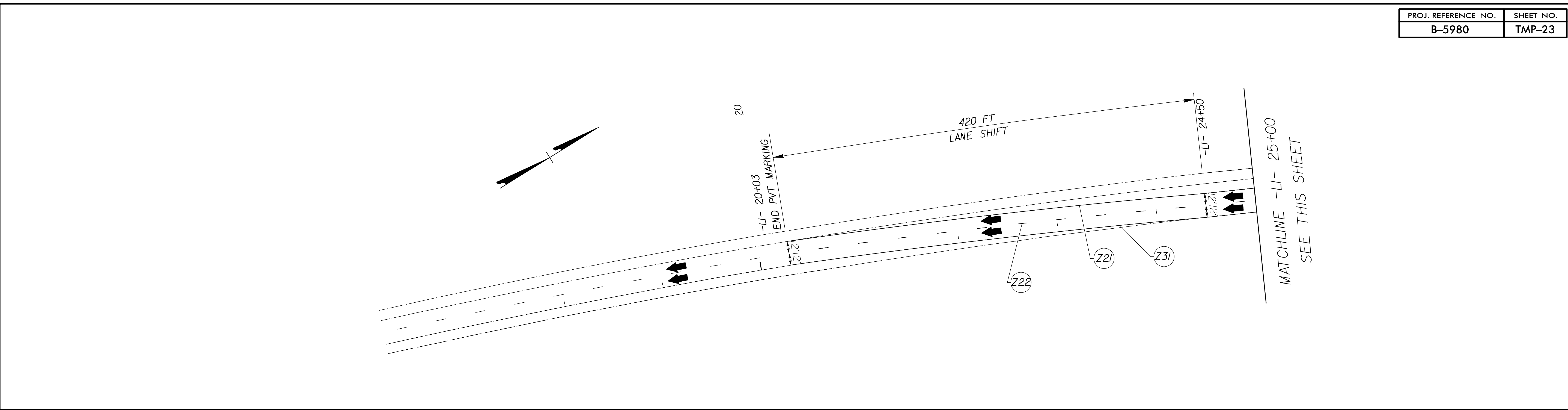
**DOCUMENT NOT CONSIDERED FINAL
UNLESS ALL SIGNATURES COMPLETED**



PHASE III
-L1- TEMP. PAVEMENT
DETAILS

4/14/2020
R:\TrafficControl\CP\B5980.TC_TMP_22_Phase III\LI Temp. Pavement.dgn
User:kasey.mccoy

PROJ. REFERENCE NO.	SHEET NO.
B-5980	TMP-23



4/6/2020
 R:\Traffic\TrafficControl\TCP\B5980.TC_TMP_23_Phase III\RPB.dgn
 User: kim.koivumemi

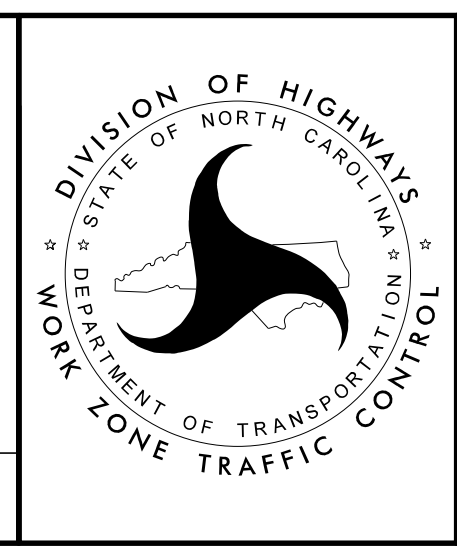
APPROVED: *Jeffrey A. Koontz*
B4EFEC0D284F7...

DATE: 4/15/2020

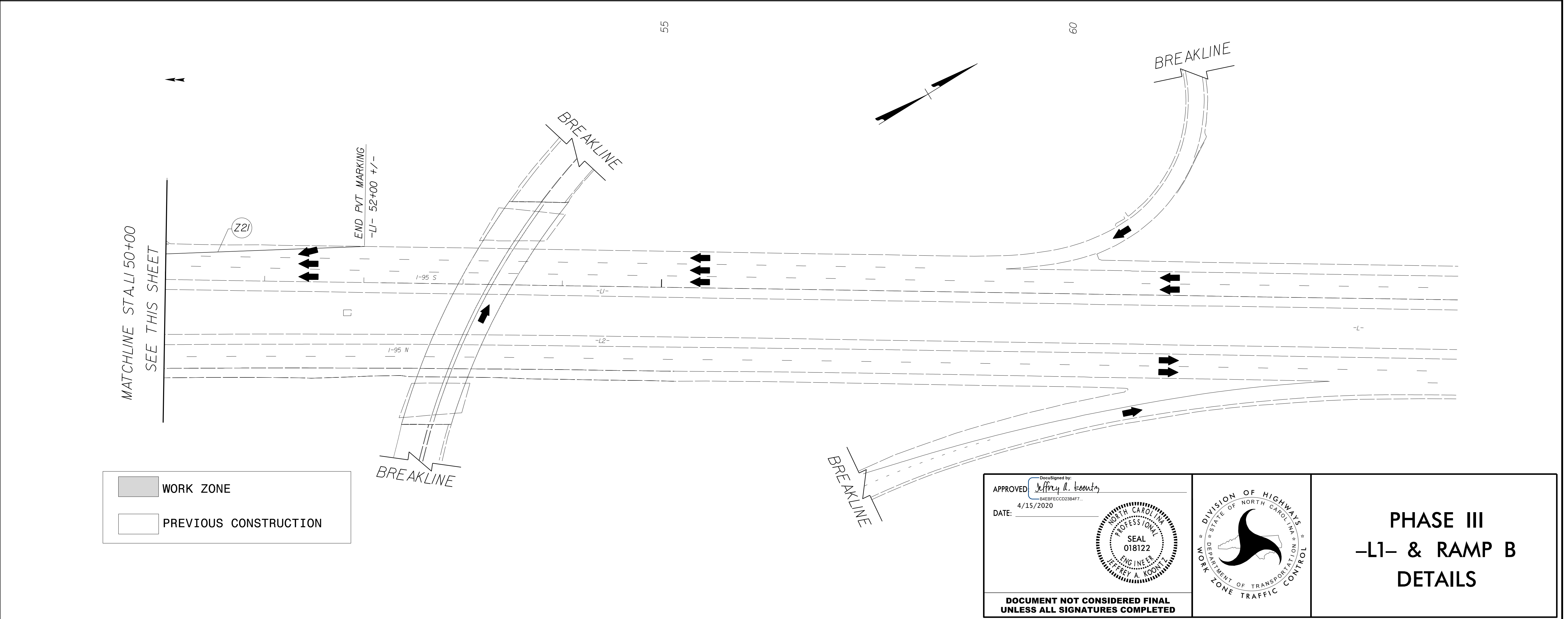
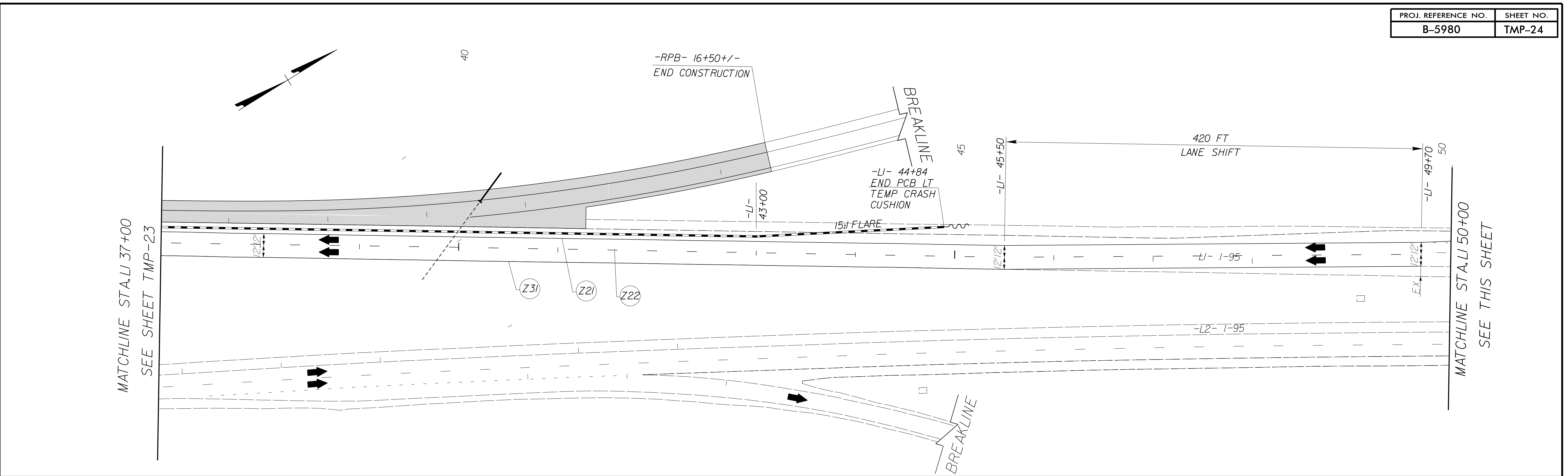
SEAL 018122

JEFFREY A. KOONTZ

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

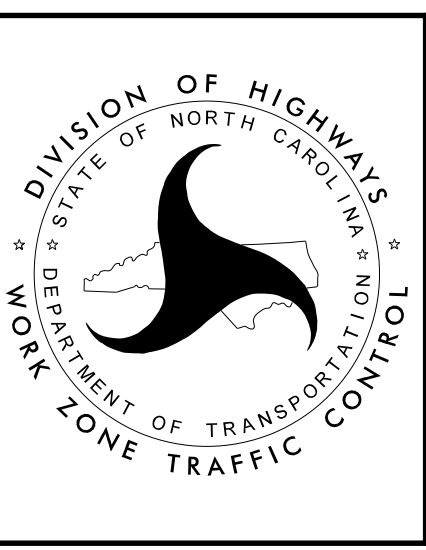


**PHASE III
 RAMP B &
 -LI- DETAILS**



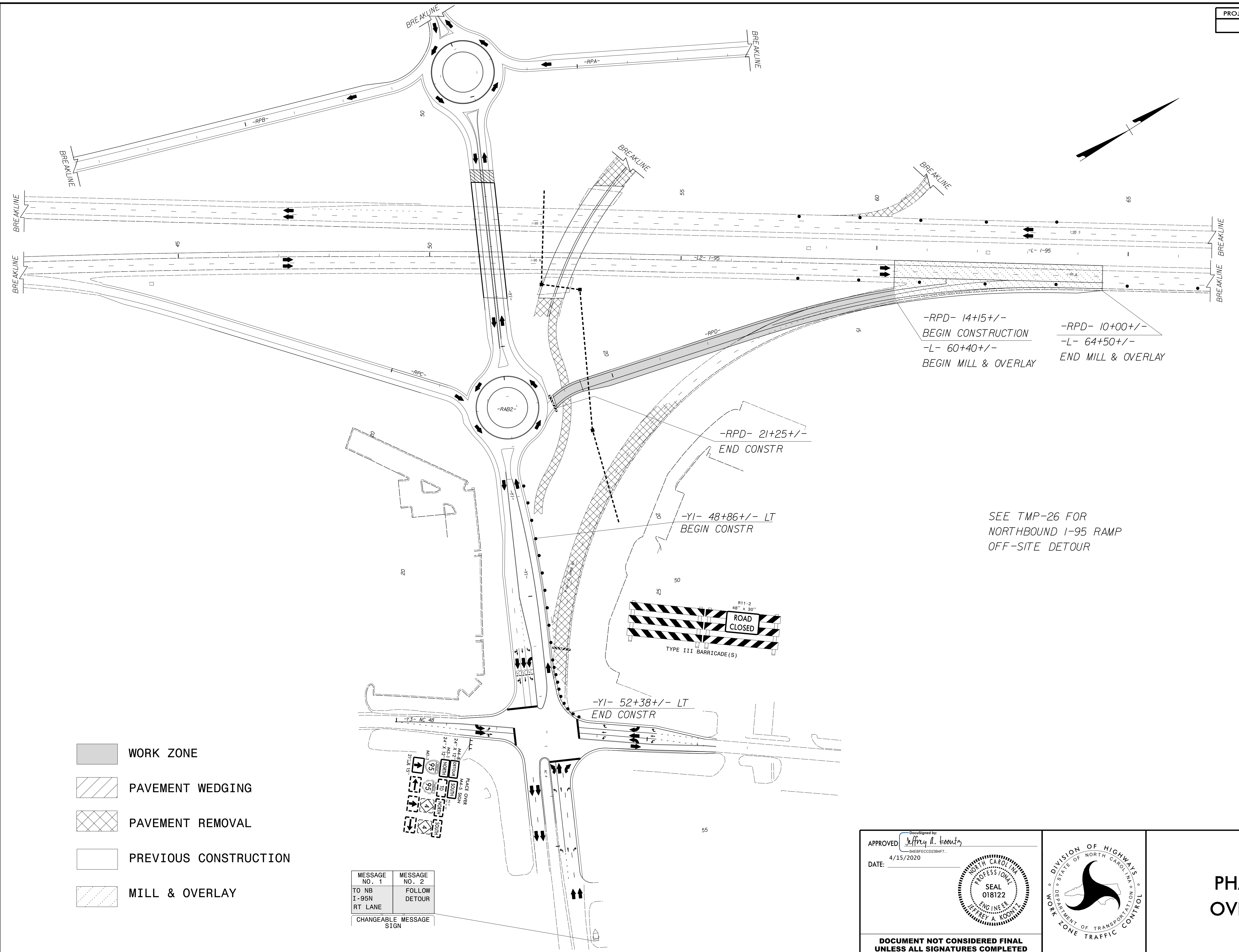
WORK ZONE
 PREVIOUS CONSTRUCTION

APPROVED: *Jeffrey D. Kooty*
 DATE: 4/15/2020
 NORTH CAROLINA PROFESSIONAL SEAL 018122
 ENGINEER
 JEFFREY A. KOOTY



PHASE III
-L1- & RAMP B
DETAILS

4/6/2020
 R:\Traffic\TrafficControl\TCP\B5980.TC_TMP_24_Phase III\RPB-2.dgn
 User: kim.kolwiniemi



-RPD- 14+15+/-
 BEGIN CONSTRUCTION
 -L- 60+40+/-
 BEGIN MILL & OVERLAY

-RPD- 10+00+/-
 -L- 64+50+/-
 END MILL & OVERLAY

-RPD- 21+25+/-
 END CONSTR

-YI- 48+86+/- LT
 BEGIN CONSTR

-YI- 52+38+/- LT
 END CONSTR

SEE TMP-26 FOR
 NORTHBOUND I-95 RAMP
 OFF-SITE DETOUR

- WORK ZONE
- PAVEMENT WEDGING
- PAVEMENT REMOVAL
- PREVIOUS CONSTRUCTION
- MILL & OVERLAY

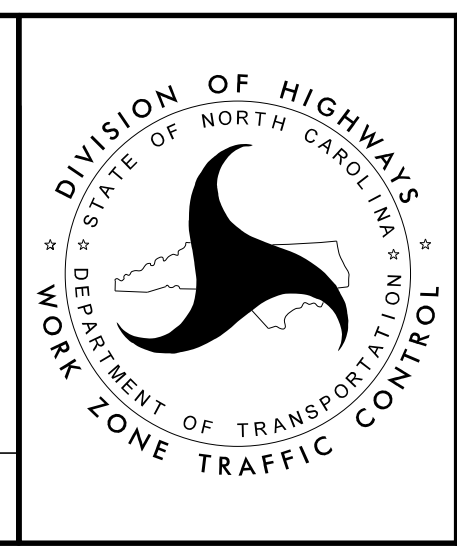
MESSAGE NO. 1	MESSAGE NO. 2
TO NB I-95N RT LANE	FOLLOW DETOUR
CHANGEABLE MESSAGE SIGN	

APPROVED: *Jeffrey D. Koontz*
 DATE: 4/15/2020

DocuSigned by:
 Jeffrey D. Koontz
 848BFEC0228AF7

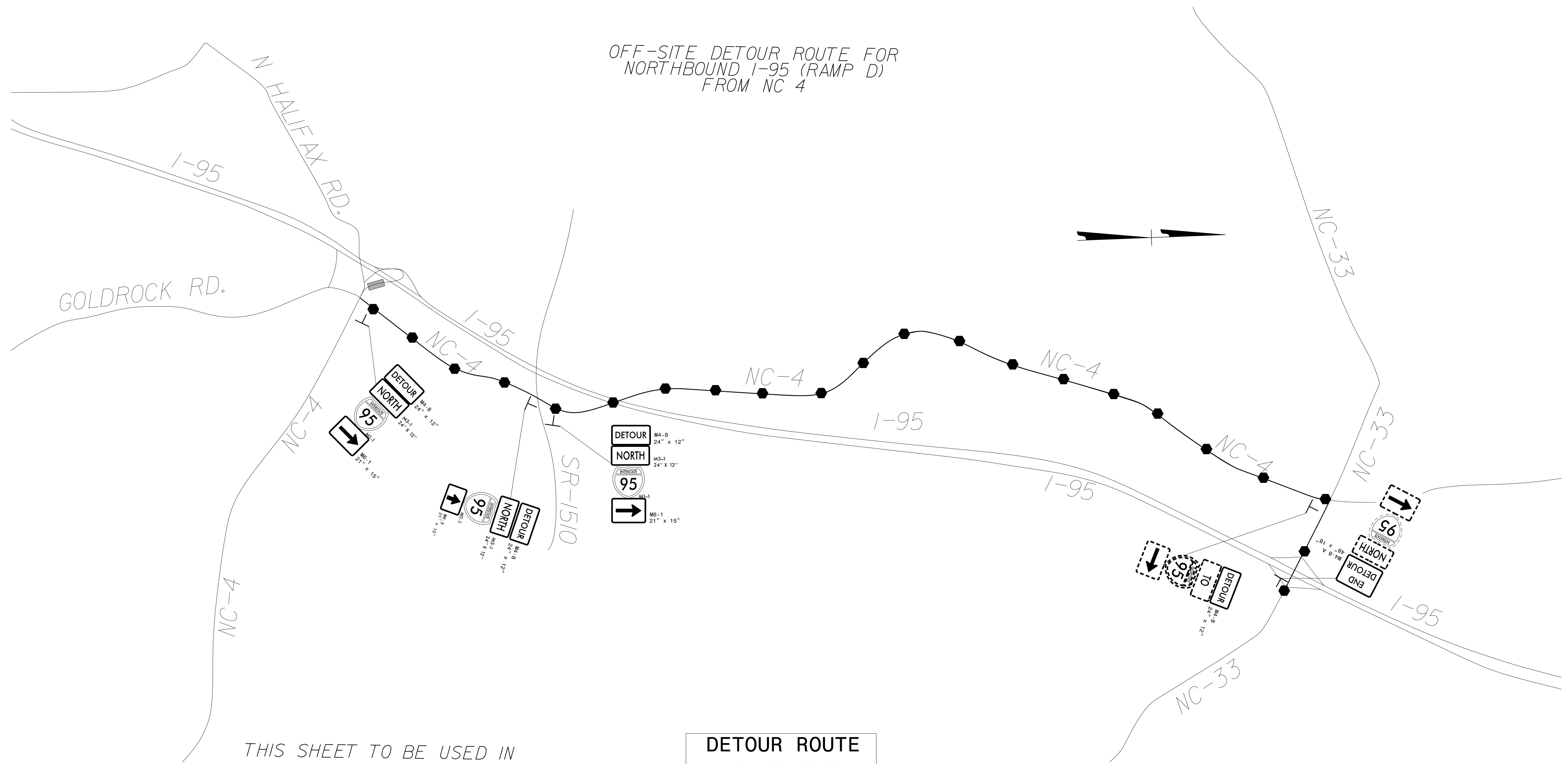
SEAL 018122
 JEFFREY D. KOONTZ
 PROFESSIONAL ENGINEER
 NORTH CAROLINA

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

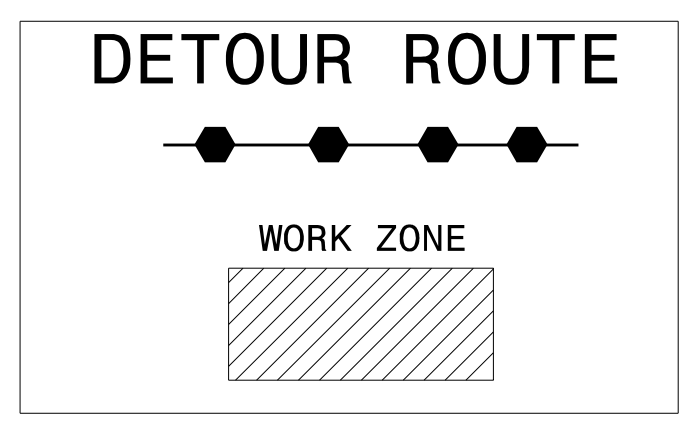


PHASE IV OVERVIEW

2/21/2020
 R:\TrafficControl\TrafficControl\B5980.TC_TMP_25_Phase IV_Overview.dgn
 User: jeff.koontz



THIS SHEET TO BE USED IN
CONJUNCTION WITH TMP-27 & TMP-28

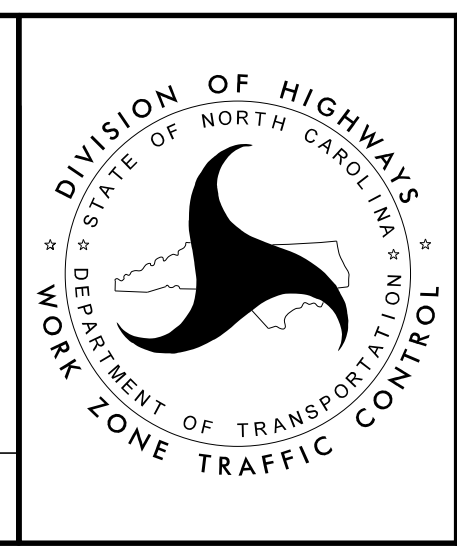


2/21/2020
 R:\TrafficControl\TrafficControl\B5980.TC.TMP_26.Phase IV_Detour_RPD.dgn
 User: jeff.koontz

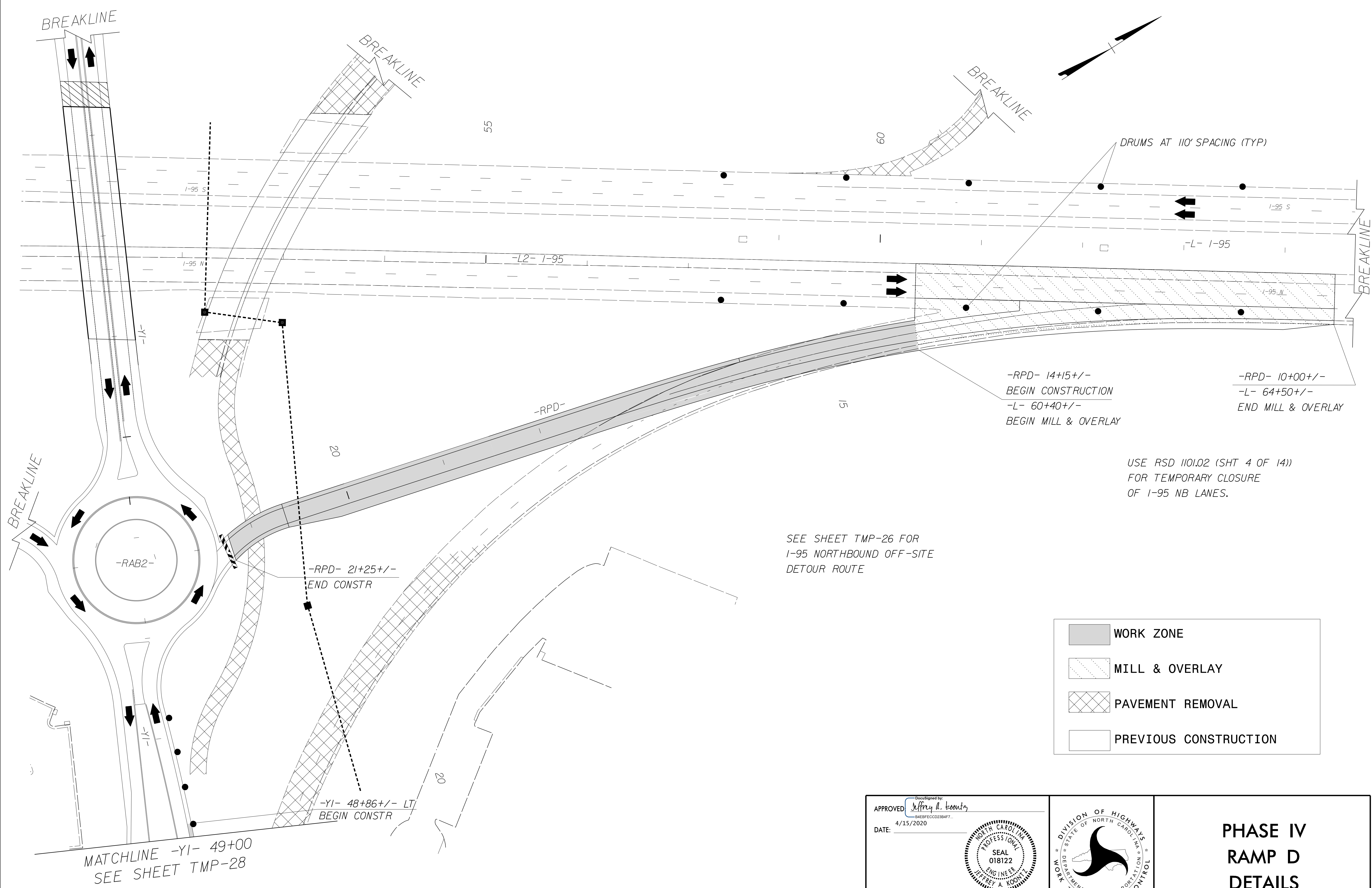
APPROVED: *Jeffrey D. Koontz*
DocuSigned by:
Jeffrey D. Koontz
B4EBFECC02B4F7...

DATE: 4/15/2020

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



**PHASE IV
RAMP D
DETOUR**



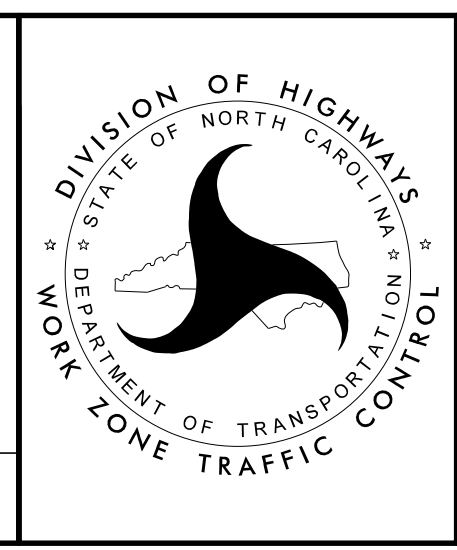
	WORK ZONE
	MILL & OVERLAY
	PAVEMENT REMOVAL
	PREVIOUS CONSTRUCTION

APPROVED: *Jeffrey D. Koontz*
DocuSigned by:
Jeffrey D. Koontz
B4EBFEC023B4F7

DATE: 4/15/2020

SEAL
018122
ENGINEER
JEFFREY D. KOONTZ

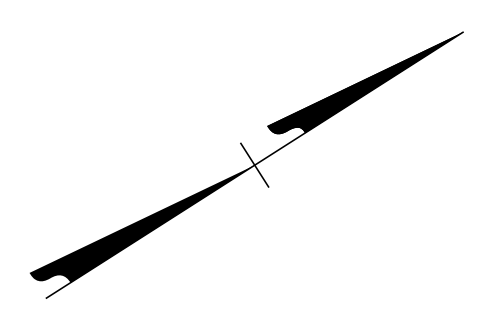
**DOCUMENT NOT CONSIDERED FINAL
UNLESS ALL SIGNATURES COMPLETED**



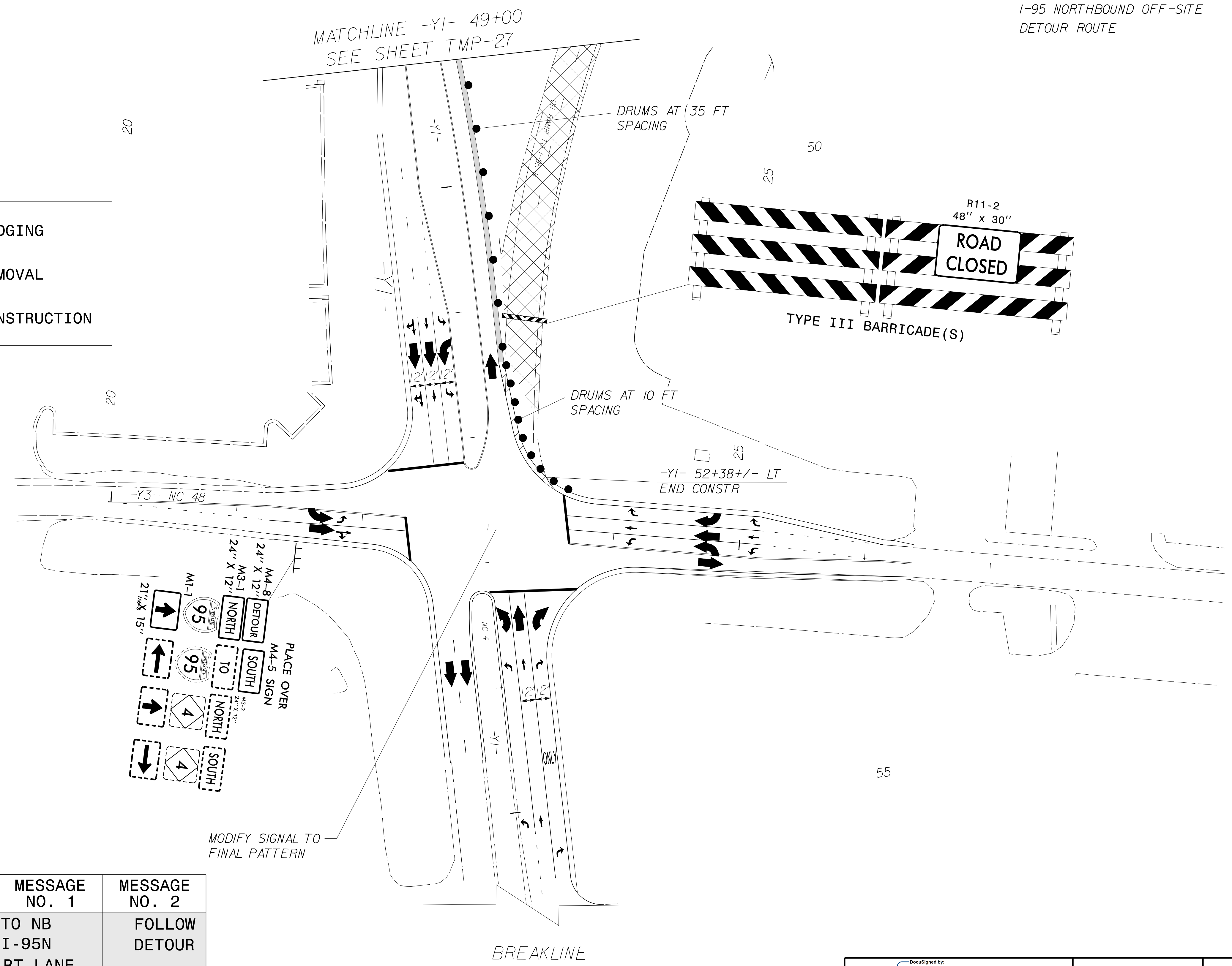
**PHASE IV
RAMP D
DETAILS**

2/21/2020
 R:\Tr\offic\TrafficControl\CP\B5980.TC.TMP_27_Phase IV.RPD.dgn
 User:jeff.koontz

SEE SHEET TMP-26 FOR
I-95 NORTHBOUND OFF-SITE
DETOUR ROUTE



	PAVEMENT WEDGING
	PAVEMENT REMOVAL
	PREVIOUS CONSTRUCTION



MESSAGE NO. 1	MESSAGE NO. 2
TO NB I-95N RT LANE	FOLLOW DETOUR

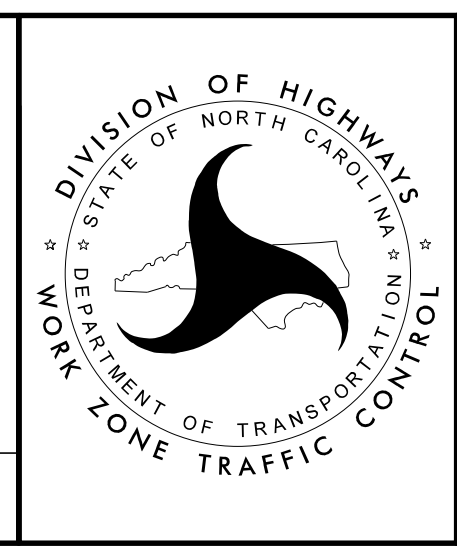
CHANGEABLE MESSAGE SIGN

LOCATE 1/2 MILE IN ADVANCE OF INTERSECTION OR AS DIRECTED BY THE ENGINEER

APPROVED: *Jeffrey A. Koontz*
DATE: 4/15/2020

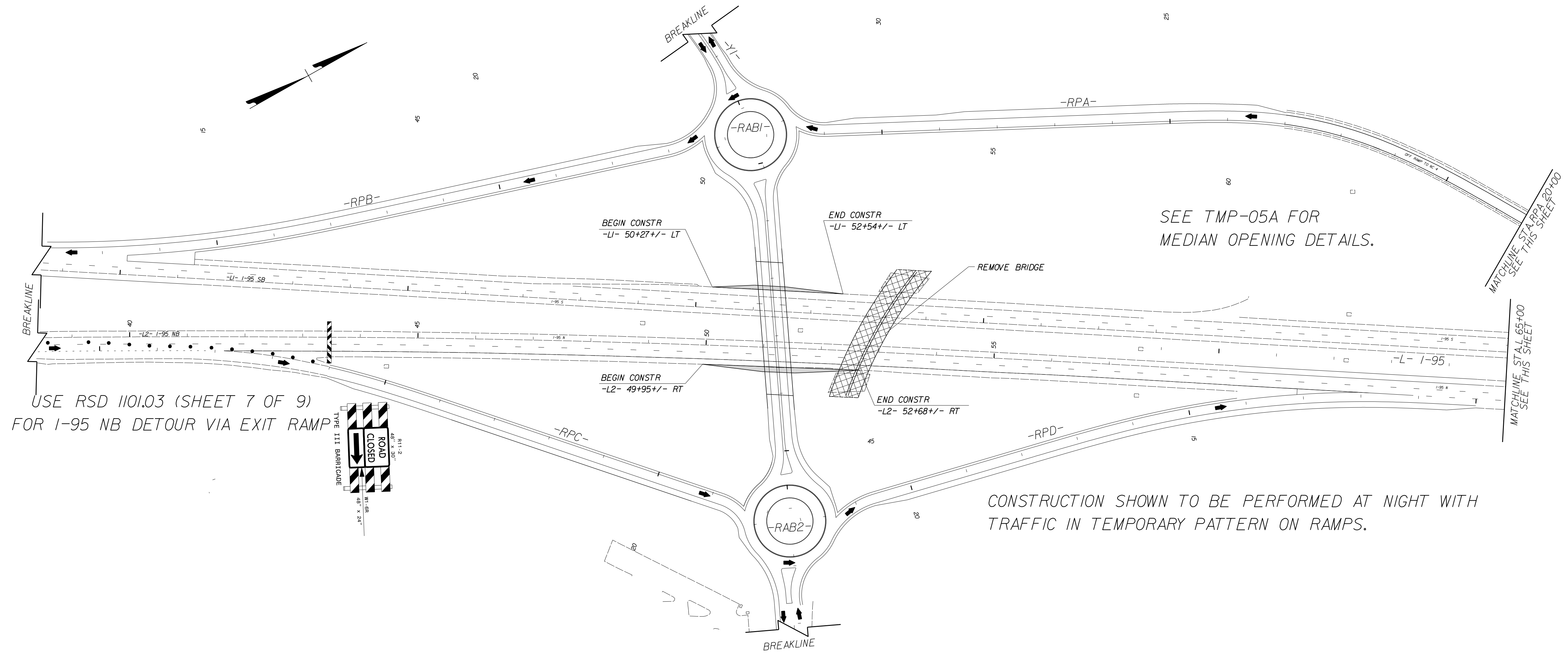
DocuSigned by:
Jeffrey A. Koontz
4B8FEECD284F7...

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

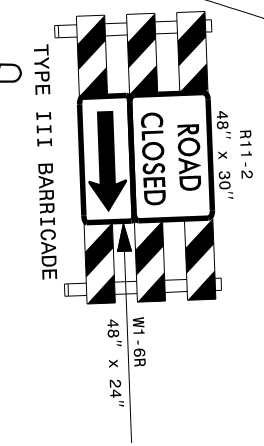


**PHASE IV
-Y1- DETAILS**

2/21/2020
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 User: jeff.koontz

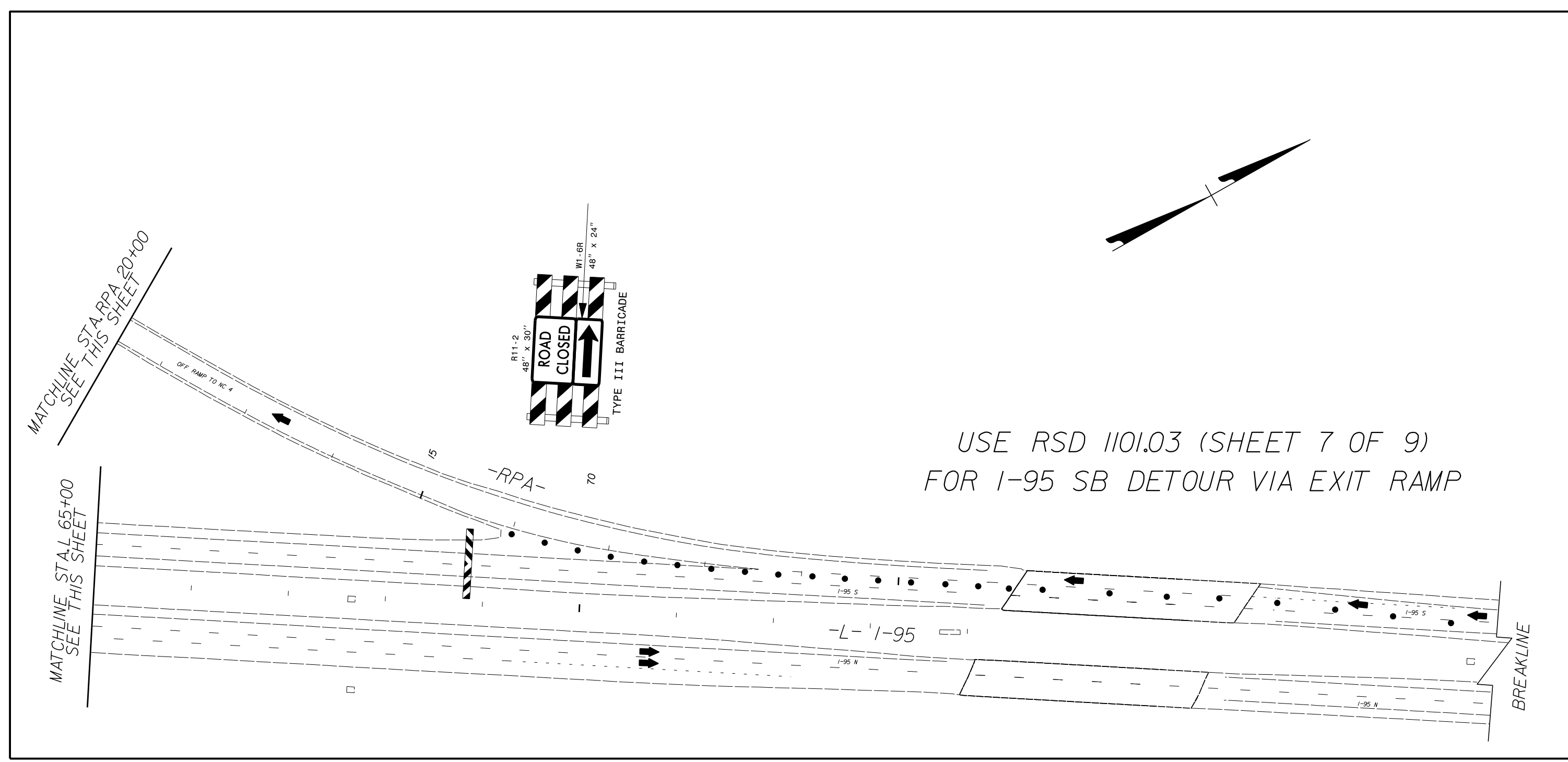


USE RSD 1101.03 (SHEET 7 OF 9)
FOR I-95 NB DETOUR VIA EXIT RAMP

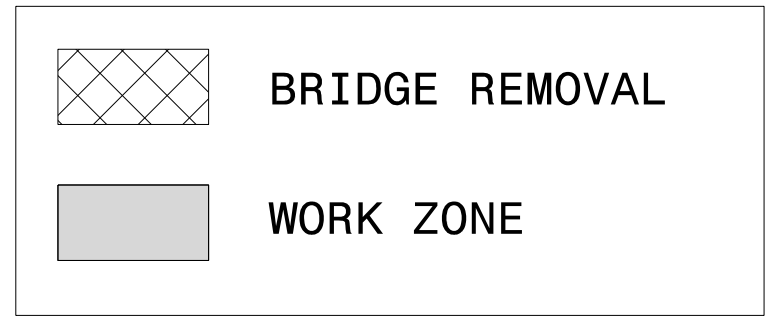


SEE TMP-05A FOR
MEDIAN OPENING DETAILS.

CONSTRUCTION SHOWN TO BE PERFORMED AT NIGHT WITH
TRAFFIC IN TEMPORARY PATTERN ON RAMPS.



USE RSD 1101.03 (SHEET 7 OF 9)
FOR I-95 SB DETOUR VIA EXIT RAMP



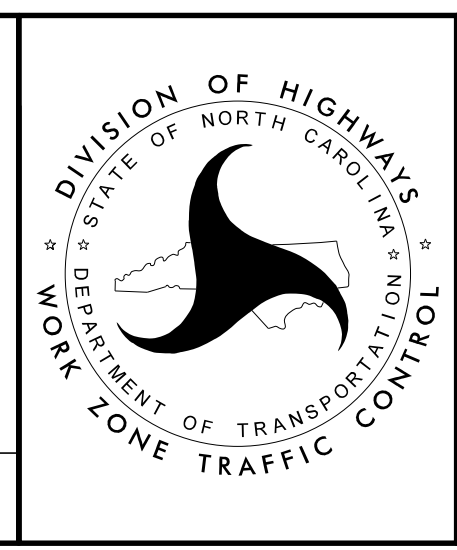
2/21/2020
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User:jeff.koontz

APPROVED: *Jeffrey A. Koontz*
DATE: 4/15/2020

DocuSigned by:
Jeffrey A. Koontz
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SEAL
018122
ENGINEER
JEFFREY A. KOONTZ

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



**PHASE IV
RAMP BRIDGE
REMOVAL DETAIL**