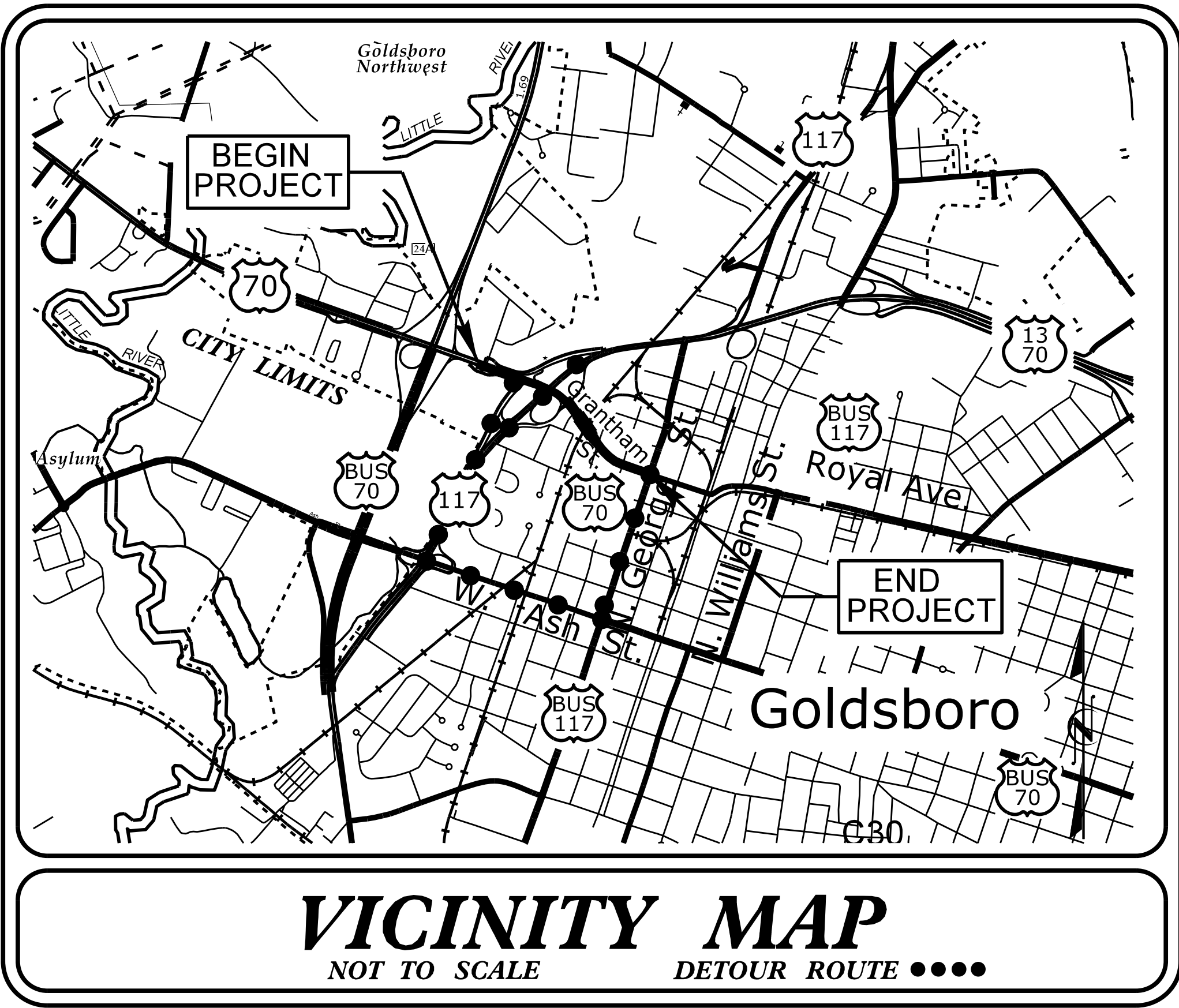
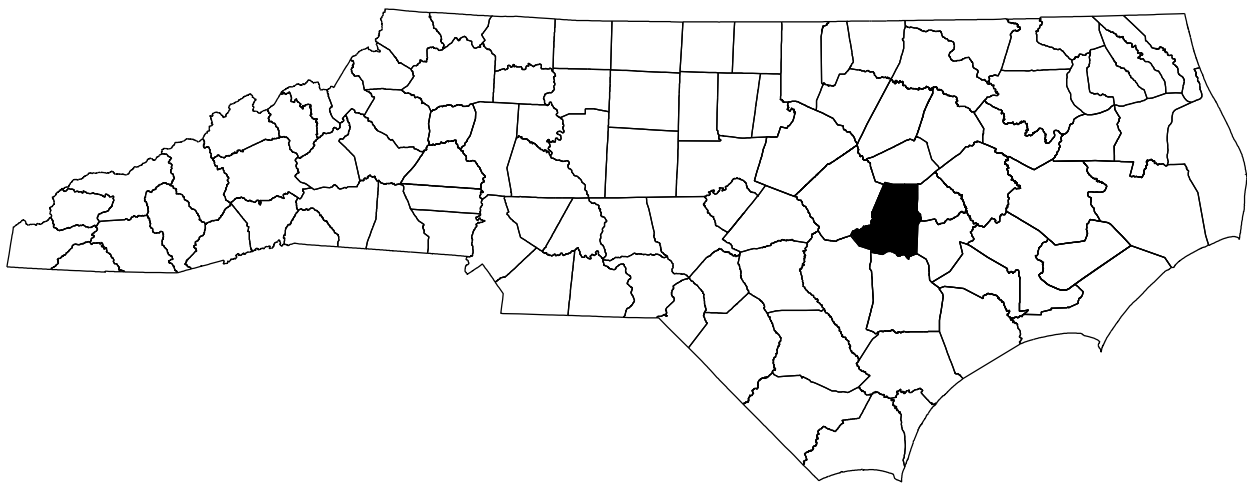


STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

TRANSPORTATION MANAGEMENT PLAN

WAYNE COUNTY



INDEX OF SHEETS

SHEET NO.	TITLE
TMP-1	TITLE SHEET, VICINITY MAP, AND INDEX OF SHEETS
TMP-01A	LIST OF APPLICABLE ROADWAY STANDARD DRAWINGS, AND LEGEND
TMP-02 THRU TMP-02A	GENERAL NOTES, PROJECT NOTES, TRAFFIC MANAGEMENT STRATEGY, TEMPORARY SHORING NOTES
TMP-02B	SPECIAL SIGN DESIGN - GRANTHAM ST
TMP-03 THRU TMP-03A	PHASING
TMP-04	PHASE I W. GRANTHAM ST DETOUR OVERVIEW
TMP-05 THRU TMP-08	PHASE I DETAILS
TMP-09 THRU TMP-11	W GRANTHAM ST BRIDGE CLOSURE DETOUR DETAIL
TMP-12	GEORGE ST INTERSECTION DETOUR DETAIL
TMP-13	VIRGINIA ST INTERSECTION DETOUR DETAIL
TMP-14	N. CAROLINA ST INTERSECTION DETOUR DETAIL
TMP-15	PHASE II W GRANTHAM ST DETAILS
TMP-16	PHASE III W GRANTHAM ST DETAILS
TMP-17 THRU TMP-18	PHASE IV US 70 DETAILS

SHEET NO.
TMP-01

B-4838

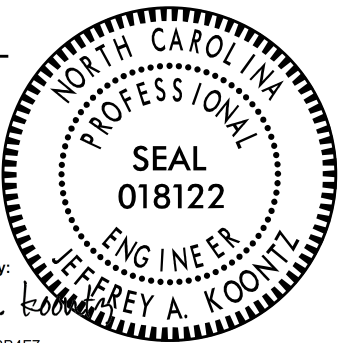
TIP PROJECT:

DOCUMENT NOT CONSIDERED FINAL
UNLESS ALL SIGNATURES COMPLETED

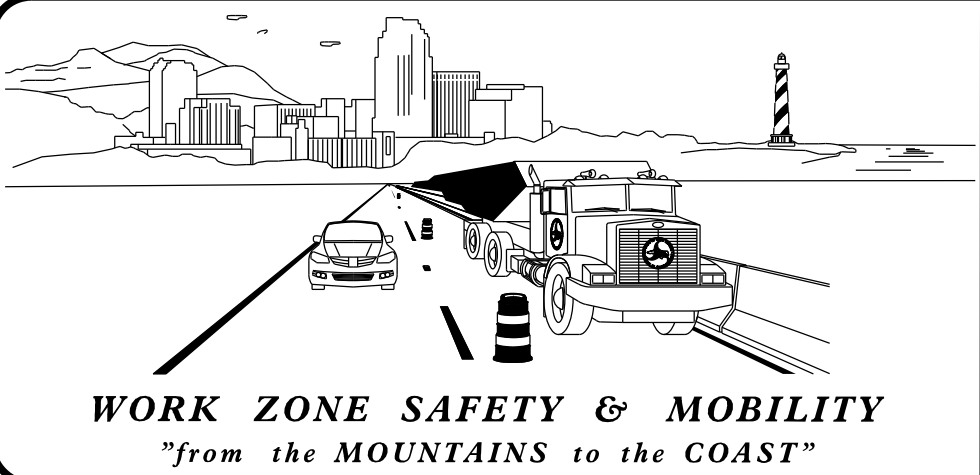
APPROVED: _____
DATE: 11/3/2025

AECOM

NC FIRM LICENSE No: F-0342
5438 Wade Park Blvd, Suite 200
Raleigh, NC 27607
(919) 854-6200 - (919) 854-6259(FAX)



DocuSigned by:
Jeffrey A. Koontz



PLANS PREPARED BY:

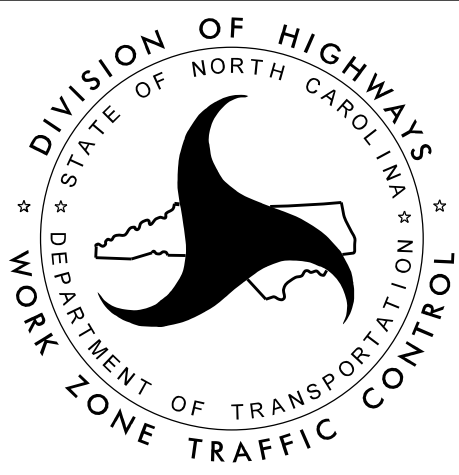
JEFFREY KOONTZ, P.E.
PROJECT ENGINEER

JON ARCHAMBAULT
PROJECT DESIGN TECHNICIAN

NCDOT CONTACTS:

KARMEN DAIS, P.E.
PROJECT ENGINEER

CHRIS HOWARD
PROJECT DESIGN ENGINEER









9/11/2024 9:11:24 AM User: jeff.koontz pw: \\aecom-na-pw-bentley.com\AECOM_USA\North Carolina\Documents\60598150-NCDOT SMU B-4838\900-CAD 615\910-CAD\70-NCDOT_TIP\Traffic\TrafficControl\TCP\250_B4838_fg_TMP-01A.tsh.dgn


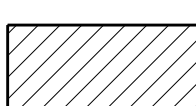

ROADWAY STANDARD DRAWINGS

THE FOLLOWING ROADWAY STANDARDS AS SHOWN IN "ROADWAY STANDARD DRAWINGS" - PROJECT SERVICES UNIT - N.C. DEPARTMENT OF TRANSPORTATION - RALEIGH, N.C., DATED JANUARY 2024 ARE APPLICABLE TO THIS PROJECT AND BY REFERENCE HEREBY ARE CONSIDERED A PART OF THESE PLANS:

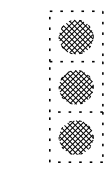
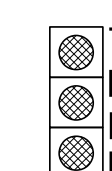
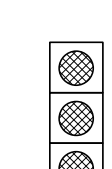
STD. NO.	TITLE
1101.01	WORK ZONE WARNING SIGNS
1101.02	TEMPORARY LANE CLOSURES
1101.03	TEMPORARY ROAD CLOSURES
1101.04	TEMPORARY SHOULDER CLOSURES
1101.11	TRAFFIC CONTROL DESIGN TABLES
1110.01	STATIONARY WORK ZONE SIGNS
1110.02	PORTABLE WORK ZONE SIGNS
1115.01	FLASHING ARROW BOARDS
1130.01	DRUMS
1135.01	CONES
1145.01	BARRICADES
1150.01	FLAGGERS
1165.01	TRUCK MOUNTED ATTENUATOR
1180.01	SKINNY DRUMS
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
1205.06	PAVEMENT MARKINGS - LANE DROPS
1205.07	PAVEMENT MARKINGS - PEDESTRIAN CROSSWALKS
1205.08	PAVEMENT MARKINGS - SYMBOLS AND WORD MESSAGES
1250.01	RAISED PAVEMENT MARKERS - INSTALLATION SPACING
1251.01	RAISED PAVEMENT MARKERS - PERMANENT AND TEMPORARY

GENERAL



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

-  FULL DEPTH CONSTRUCTION
-  WEDGING
-  PAVEMENT REMOVAL

SIGNALS







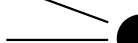
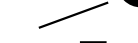


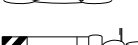

-  EXISTING TRAFFIC SIGNAL
-  TEMPORARY TRAFFIC SIGNAL
-  PROPOSED TRAFFIC SIGNAL

PAVEMENT MARKINGS




-  EXISTING LINES
-  TEMPORARY LINES

LEGEND




TRAFFIC CONTROL DEVICES

-  PORTABLE CONCRETE BARRIER (PCB)
-  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


TEMPORARY PAVEMENT MARKINGS

SYMBOL	DESCRIPTION
P1	4" WHITE EDGELINE
P11	4" YELLOW SINGLE CENTERLINE
P13	4" YELLOW DOUBLE CENTER
P20	6" WHITE EDGELINE
P21	6" WHITE SOLID LANE LINE
P23	6" 3 FT-9FT WHITE MINISKIP
P30	6" YELLOW EDGELINE
P46	8" WHITE CROSSWALK LINE
P61	24" WHITE STOPBAR
P71	RIGHT TURN ARROW
P75	COMBO LEFT/RIGHT ARROW
P76	COMBO LEFT/RIGHT/STRAIGHT ARROW
P100	ALPHANUMERIC CHARACTER

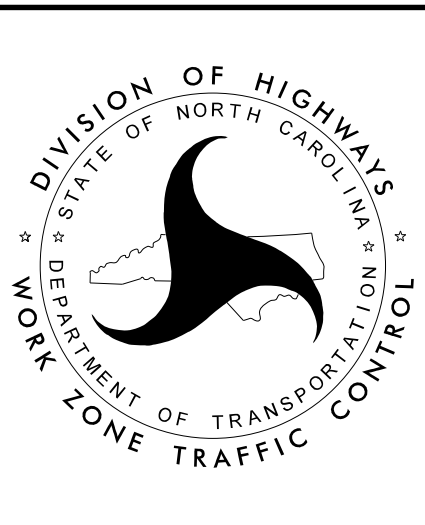
AECOM
NC FIRM LICENSE No: F-0342
5438 Wade Park Blvd, Suite 200
Raleigh, NC 27607
(919) 854-6200 - (919) 854-6259(FAX)

APPROVED: _____

DATE: 9/13/2024



DOCUMENT NOT CONSIDERED FINAL
UNLESS ALL SIGNATURES COMPLETED



ROADWAY STANDARD
DRAWINGS & LEGEND

GENERAL NOTES,
PROJECT NOTES,
TRAFFIC MANAGEMENT
STRATEGY &
TEMP. SHORING NOTES

NC Firm License No.: F-0342
5438 Wade Park Blvd, Suite 200
Suite 475 Raleigh, NC 27607
Phone: 919-854-6200

APPROVED: _____

DATE: _____ 11/03/2025

DocuSigned by:
Jeffrey A. Koontz
B4E8FECCD20B4F7

NOTICE

SEAL

018122

ENGINEER

JEFFREY A. KOONTZ

NORTH CAROLINA

PROFESSIONAL



DO NOT CONSIDERED FINAL

UNLESS ALL SIGNATURES COMPLETED



SIGN NUMBER:		BACKG COLOR:	Orange	DESIGN BY:	Patrick McPherson, EI	CHECKED BY:	Jeff Koontz, PE	Mar 29, 2023
TYPE:	D	COPY COLOR:	Black	PROJECT ID:	ID	LOCATION:		DIV: DIV
QUANTITY:	1							
SIGN WIDTH:	3'-0"							
HEIGHT:	1'-0"							
TOTAL AREA:	3.0 Sq.Ft.							
BORDER TYPE:	FLUSH							
RECESS:	0.47"							
WIDTH:	0.63"							
RADII:	1.5"							
NO.	Z BARS:	MAT'L:	0.063" (1.6 mm)	ALUMINUM				
	LENGTH:		0.080" (2.0 mm)	ALUMINUM				
			0.125" (3.2 mm)	ALUMINUM				
USE NOTES:								
<p>1. Legend and border(except those that are colored black) shall be direct applied Grade C sheeting. 2. Background shall be Grade B reflective sheeting.</p>								
<div style="text-align: center;"><p>BORDER R=1.5" TH=0.63" IN=0.47"</p><p>Panel Style: construction_guide.ssi M.U.T.C.D.: 2009 Edition</p></div>								
Spacing Factor is 1 unless specified otherwise								

AECOM
NC Firm License No.: F-0342
5438 Wade Park Blvd, Suite 200
Suite 475 Raleigh, NC 27607
Phone: 919-854-6200

APPROVED: _____ DATE: 9/13/2024 _____			<h2 style="margin: 0;">GRANTHAM ST SIGN DETAILS</h2>
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED			

9/11/2024
pw:\\aecom-na-pw.bentley.com\\aecom_usa\\North_Carolina\\Documents\\60598150-NCDOT_SMU_B-4838\\900-CAD-605\\910-CAD\\70-NCDOT_TIP\\Traffic\\TrafficControl\\TCP\\250_B4838_to_TMP-03_phasing.dgn
User: jeff.koontz

PHASE I

STEP 1) PRIOR TO ANY CONSTRUCTION ACTIVITIES, INSTALL WORK ZONE ADVANCE WARNING SIGNS ON ALL ROADS INVOLVED (US 70/W. GRANTHAM ST, N. CAROLINA ST, N. VIRGINIA ST, N. GEORGE ST) ACCORDING TO ROADWAY STANDARD DRAWING (RSD) 1101.01.

STEP 2) PLACE CMS FOR EARLY ROAD CLOSURE NOTICE AND INSTALL AND COVER DETOUR AND ADVANCE WARNING SIGNS FOR BRIDGE CLOSURE LONG-TERM DETOUR. (SEE OVERVIEW ON TMP-04 AND DETAILS ON TMP-5 THRU TMP-11)

STEP 3) WORKING IN A CONTINUOUS MANNER, USE RSD 1101.02 (SHEET 3 OF 19) FOR TEMPORARY LANE CLOSURE ON W. GRANTHAM ST (BUS 70) AND PLACE SIGNS, DEVICES, AND TEMPORARY PAVEMENT MARKING FOR TEMPORARY LANE DROPS ACCORDING TO THE FOLLOWING STATIONS: (SEE DETAILS ON TMP-05 THRU TMP-08)

- L- STA 11+70+/- TO -L- STA 23+50+/-
- L- STA 35+22+/- TO -L- STA 39+00+/-

UNCOVER LONG-TERM DETOUR SIGNS, PLACE BARRICADES AND CLOSE GRANTHAM STREET (BUS 70) TO THROUGH TRAFFIC AND SHIFT EASTBOUND W. GRANTHAM STREET TRAFFIC INTO TEMPORARY EXIT ONLY PATTERN AND WESTBOUND TRAFFIC INTO OFF-SITE DETOUR.

NOTE: TEMPORARY PHASE II TRAFFIC PATTERN (STEPS 1 AND 2) FOR W. GRANTHAM STREET WITH TEMPORARY SIGNAL AT GEORGE STREET SHOWN ON TMP-15 MAY ALSO BE USED IF ROADWAY AND UTILITY CONSTRUCTION EAST OF THE BRIDGE BEGINS AT THE TIME THE BRIDGE IS CLOSED.

STEP 4) WORK AWAY FROM TRAFFIC AND BEGIN CONSTRUCTION OF -L- (W. GRANTHAM ST) BRIDGE AND ROADWAY UP TO, BUT NOT INCLUDING THE FINAL LAYER OF SURFACE COURSE, ACCORDING TO THE FOLLOWING STATIONS: (SEE TMP-07 AND TMP-08)

- L- STA 26+00+/- TO -L- STA 34+00+/-
- RPC3- STA 11+15+/- TO -RPC3- STA 12+25+/-
- RPD- STA 10+45+/- TO -RPD- STA 12+44+/-

PHASE II

STEP 1) USE RSD 1101.02 (SHEET 1 OF 19) AS NEEDED FOR TEMPORARY LANE CLOSURES TO INSTALL AND COVER TEMPORARY SIGNAL AT THE N. GEORGE INTERSECTION (SEE TMP-15).

STEP 2) USE RSD 1101.02 (SHEET 1 OF 19) AND FLAGGERS TO REMOVE CONFLICTING MARKINGS AND PLACE TEMPORARY PAVEMENT MARKING (PAINT) AND DRUMS ACCORDING TO THE FOLLOWING STATIONS: (SEE TMP-15)

- L- STA 35+24+/- TO -L- STA 46+81 +/-
- STOPBARS ON -Y1- AND -Y2-

UNCOVER AND ACTIVATE TEMPORARY SIGNAL AT GEORGE ST AND SHIFT W. GRANTHAM ST TRAFFIC INTO TEMPORARY PATTERN.

PLACE PEDESTRIAN BARRICADES ON EASTBOUND W. GRANTHAM ST FOOTPATH AND DETOUR PEDESTRIANS TO THE WESTBOUND SIDE.

STEP 3) WORK AWAY FROM TRAFFIC OR USE RSD 1101.02 (SHEETS 1 OF 19) AND FLAGGERS FOR TEMPORARY LANE CLOSURE WITH ALTERNATING TRAFFIC AND BEGIN CONSTRUCTION OF -L- (W. GRANTHAM ST) AND -Y-LINES DRAINAGE, UTILITIES BY CONTRACTOR AND ROADWAY, UP TO EDGE AND ELEVATION OF EXISTING PAVEMENT ACCORDING TO THE FOLLOWING STATIONS: (SEE TMP-15)

- L- STA 34+00+/- TO -L- STA 46+05+/- EASTBOUND
- Y1- STA 16+00+/- TO -Y1-STA 16+49 +/-
- Y2- STA 13+03 +/- TO -Y2-STA 13+40 +/-

NOTE: THE CONTRACTOR MAY SELECT THE ORDER IN WHICH EACH INTERSECTION IS CLOSED FOR THE FOLLOWING STEPS 4 THRU 9.

GEORGE STREET INTERSECTION WEEKEND CLOSURE WORK

STEP 4) INSTALL AND COVER DETOUR SIGNS FOR THE GEORGE ST INTERSECTION CLOSURE. (SEE DETAILS ON TMP-12)

INTERMEDIATE CONTRACT TIME

COMPLETE THE FOLLOWING WORK OF PHASE II, STEP 5 FOR PROPOSED DRAINAGE WITHIN THE GEORGE ST INTERSECTION IN ACCORDANCE WITH THE INTERMEDIATE CONTRACT TIME OF 56 CONSECUTIVE HOURS (FRIDAY 10:00 P.M. TO MONDAY AT 6:00 A.M.) (SEE SPECIAL PROVISIONS).

STEP 5) UNCOVER THE OFF-SITE DETOUR SIGNS AND USE RSD 1101.03 (SHEET 2 OF 9) FOR TEMPORARY ROAD CLOSURES AND SHIFT TRAFFIC TO THE OFF-SITE DETOUR.

WORK IN A CONTINUOUS MANNER TO INSTALL PROPOSED DRAINAGE WITHIN THE GEORGE STREET INTERSECTION AND MAKE PAVEMENT REPAIRS (SEE TMP-15).

REMOVE BARRICADES AND DETOUR SIGNS AND OPEN THE GEORGE ST INTERSECTION TO TRAFFIC.

VIRGINIA STREET INTERSECTION WEEKEND CLOSURE WORK

STEP 6) INSTALL AND COVER DETOUR SIGNS FOR THE VIRGINIA ST INTERSECTION CLOSURE. (SEE DETAILS ON TMP-13)

INTERMEDIATE CONTRACT TIME

COMPLETE THE FOLLOWING WORK OF PHASE II, STEP 7 FOR UTILITY RELOCATIONS WITHIN THE VIRGINIA ST INTERSECTION IN ACCORDANCE WITH THE INTERMEDIATE CONTRACT TIME OF 56 CONSECUTIVE HOURS (FRIDAY 10:00 P.M. TO MONDAY AT 6:00 A.M.) (SEE SPECIAL PROVISIONS).

STEP 7) UNCOVER THE OFF-SITE DETOUR SIGNS AND USE RSD 1101.03 (SHEET 2 OF 9) FOR TEMPORARY ROAD CLOSURES AND SHIFT TRAFFIC TO THE OFF-SITE DETOUR.

WORK IN A CONTINUOUS MANNER TO INSTALL PROPOSED WATER LINE AS SHOWN IN THE UTILITY RELOCATION PLANS SHEET UC-3 AND MAKE PAVEMENT REPAIRS (SEE TMP-15).

REMOVE BARRICADES AND DETOUR SIGNS AND OPEN THE VIRGINIA ST INTERSECTION TO TRAFFIC.

NORTH CAROLINA ST INTERSECTION WEEKEND CLOSURE WORK

STEP 8) INSTALL AND COVER DETOUR SIGNS FOR THE NORTH CAROLINA ST INTERSECTION CLOSURE. (SEE DETAILS ON TMP-14)

INTERMEDIATE CONTRACT TIME

COMPLETE THE FOLLOWING WORK OF PHASE II, STEP 9 FOR UTILITY RELOCATIONS WITHIN THE NORTH CAROLINA ST INTERSECTION IN ACCORDANCE WITH THE INTERMEDIATE CONTRACT TIME OF 56 CONSECUTIVE HOURS (FRIDAY 10:00 P.M. TO MONDAY AT 6:00 A.M.) (SEE SPECIAL PROVISIONS).

STEP 9) UNCOVER THE OFF-SITE DETOUR SIGNS AND USE RSD 1101.03 (SHEET 2 OF 9) FOR TEMPORARY ROAD CLOSURES AND SHIFT TRAFFIC TO THE OFF-SITE DETOUR.

WORK IN A CONTINUOUS MANNER TO INSTALL PROPOSED WATER AND SEWER LINES AND MAKE PAVEMENT REPAIRS AS SHOWN IN THE UTILITY RELOCATION PLANS SHEET UC-3 AND TMP-15.

REMOVE BARRICADES AND OPEN THE NORTH CAROLINA ST INTERSECTION TO TRAFFIC.

STEP 10) COMPLETE PHASE II CONSTRUCTION.

PHASE III

STEP 1) USE RSD 1101.02 (SHEET 1 OF 19) AS NEEDED FOR TEMPORARY LANE CLOSURES TO INSTALL AND COVER THE TEMPORARY SIGNAL AT THE GEORGE ST INTERSECTION.

STEP 2) USE RSD 1101.02 (SHEET 1 OF 19) AND FLAGGERS TO REMOVE CONFLICTING MARKINGS AND PLACE TEMPORARY PAVEMENT MARKING (PAINT) ACCORDING TO THE FOLLOWING STATIONS: (SEE TMP-16)

- L- STA 34+33 +/- TO -L- STA 48+00 +/-
- STOPBARS AT -Y1- , -Y2- AND -Y3-

MOVE DEVICES AND PEDESTRIAN BARRICADES, UNCOVER AND ACTIVATE TEMPORARY SIGNAL AT GEORGE ST, AND SHIFT W. GRANTHAM ST. TRAFFIC INTO TEMPORARY PATTERN.

STEP 3) WORK AWAY FROM TRAFFIC OR USE RSD 1101.02 (SHEETS 1 OF 19) AND FLAGGERS TO CONSTRUCT -L- (W. GRANTHAM ST) AND -Y-LINES DRAINAGE AND ROADWAY UP TO EDGE AND ELEVATION OF EXISTING PAVEMENT ACCORDING TO THE FOLLOWING STATIONS: (SEE TMP-16)

- L- STA 34+00 +/- TO -L- STA 45+07+/- EASTBOUND
- Y1- STA 14+38 +/- TO -Y1-TO STA 14+96 +/-


STEP 4) USE RSD 1101.02 (SHEET 1 OF 19) AND FLAGGERS TO WEDGE -L- (W. GRANTHAM ST) PAVEMENT UP TO, BUT NOT INCLUDING THE FINAL LAYER OF SURFACE COURSE ACCORDING TO THE FOLLOWING STATIONS: (NOT DEPICTED)


- L- STA 34+00 +/- TO -L- STA 45+07+/-
- Y1- STA 14+38 +/- TO -Y1-TO STA 16+50 +/-
- Y2- STA 12+27 +/- TO -Y2-STA 13+40 +/-

AECOM
NC Firm License No.: F-0342
5438 Wade Park Blvd, Suite 200
Suite 475 Raleigh, NC 27607
Phone: 919-854-6200

APPROVED: _____

DATE: 9/13/2024


DocId: 34869604
B48BEECCD2084E



PHASING

DOCUMENT NOT CONSIDERED FINAL
UNLESS ALL SIGNATURES COMPLETED

AND REPLACE TEMPORARY PAVEMENT MARKINGS (PAINT) IN PHASE III PATTERN (SEE TMP-16).

STEP 1) WORK AWAY FROM TRAFFIC AND COMPLETE PHASE I, STEP 4 CONSTRUCTION OF -L- (W. GRANTHAM ST) BRIDGE AND ROADWAY AND RAMPS.

-L- STA 26+00 +/- TO -L- STA 34+00 +/-
-RPC3- STA 11+15 +/- TO -RPC3- STA 12+25 +/-
-RPD- STA 10+45 +/- TO -RPD- STA 12+44 +/-

REMOVE EXISTING PAVEMENT (SEE ROADWAY PLANS), MILL EXISTING PAVEMENT, AND CONSTRUCT CONCRETE ISLANDS ON -L- (W. GRANTHAM ST), RAMPS AND LOOPS AND PLACE TEMPORARY PAVEMENT MARKINGS IN FINAL PATTERN ACCORDING TO THE FOLLOWING STATIONS: (SEE DETAILS TMP-17 THRU TMP-18)

-L- STA 16+70+/- TO -L- STA 26+00 +/-
QUADRANT B RAMP & LOOP TIE-INS
-RPC1- STA 10+00+/- TO -RPC1- STA 13+66+/-
-RPC2- STA 10+57+/- TO -RPC2- STA 12+82+/-
-RPC3- STA 10+00+/- TO -RPC3- STA 11+15+/-

MAINTAIN DRUMS FOR TEMPORARY BUS 70 (-L-) LANE CLOSURE
AND TRAFFIC PATTERN FROM PHASE I THRU III WITH ALL
EASTBOUND TRAFFIC EXITING, AND W. GRATHAM STREET CLOSED
AT -L- 26+20+/-).

STEP 3) USE RSD 1101.02 (SHEETS 2 AND 3 OF 19) FOR TEMPORARY LANE CLOSURES ON -L- AND PLACE TEMPORARY PAVEMENT MARKING IN FINAL PATTERN ACCORDING TO THE FOLLOWING STATIONS: (NOT DEPICTED IN TMP. SEE PAVEMENT MARKING PLANS)

-L- STA 26+00 +/- TO -L- STA 45+07 +/- (NOT DEPICTED IN TMP)
 -Y1- STA 14+57 +/- TO -Y1- STA 16+50 +/-
 -Y2- STA 12+27 +/- TO -Y2- STA 13+40 +/-



STEP 4) UNCOVER AND ACTIVATE THE FINAL SIGNAL AT GEORGE STREET, REMOVE BRIDGE CLOSURE BARRICADES, SIGNS, AND DRUMS, AND REMOVE EASTBOUND BUS 70 LANE CLOSURE PAVEMENT MARKINGS PLACED IN PHASE I AND REPLACE FINAL MARKINGS IN ORIGINAL PATTERN TO OPEN W. GRANTHAM ST (-L-) AND RAMPS TO TRAFFIC IN FINAL PATTERN FROM WEST OF I-795 TO EAST OF GEORGE STREET.

STEP 1) USE RSD 1101.02 (SHEETS OF 19) FOR TEMPORARY LANE CLOSURES AND TRAFFIC SHIFTS AND PLACE THE FINAL LAYER OF SURFACE COURSE AND FINAL PAVEMENT MARKINGS AND MARKERS ACCORDING TO THE FOLLOWING STATIONS: (NOT DEPICTED. SEE PAVEMENT MARKING PLANS)

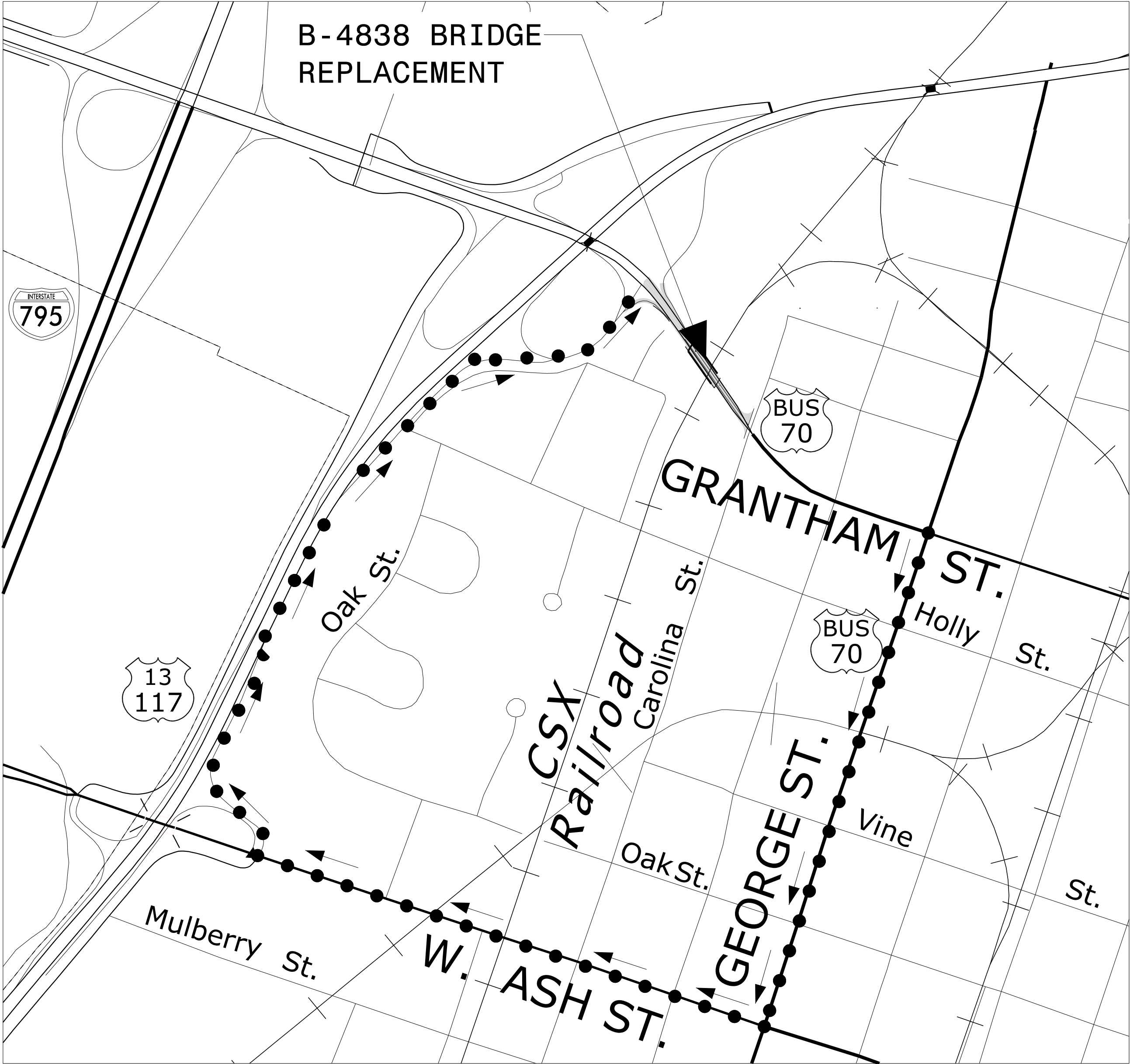
-Y1- STA 16+70 +/- TO -L- STA 45+07 +/-
 -L- STA 124+57 +/- TO -Y1- STA 16+50 +/-
 -Y2- STA 12+27 +/- TO -Y2- STA 13+40 +/-
 QUADRANT B RAMP & LOOP TIE-INS
 -RPC1- STA 10+00/+ TO -RPC1- STA 13+66+/-
 -RPC2- STA 10+57/+ TO -RPC2- STA 12+82+/-
 -RPC3- STA 10+00/+ TO -RPC3- STA 12+25+/-
 -RPD- STA 10+45/+ TO -RPD- STA 12+44/+

STEP 2) REMOVE ALL REMAINING DEVICES AND OPEN ALL ROADS FULLY TO TRAFFIC IN FINAL PATTERN.



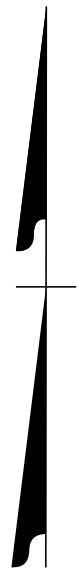
APPROVED: _____ DATE: 9/13/2024 _____			<h1 style="margin: 0;">PHASING</h1>
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED			

PROJ. REFERENCE NO.	SHEET NO.
B-4838	TMP-04

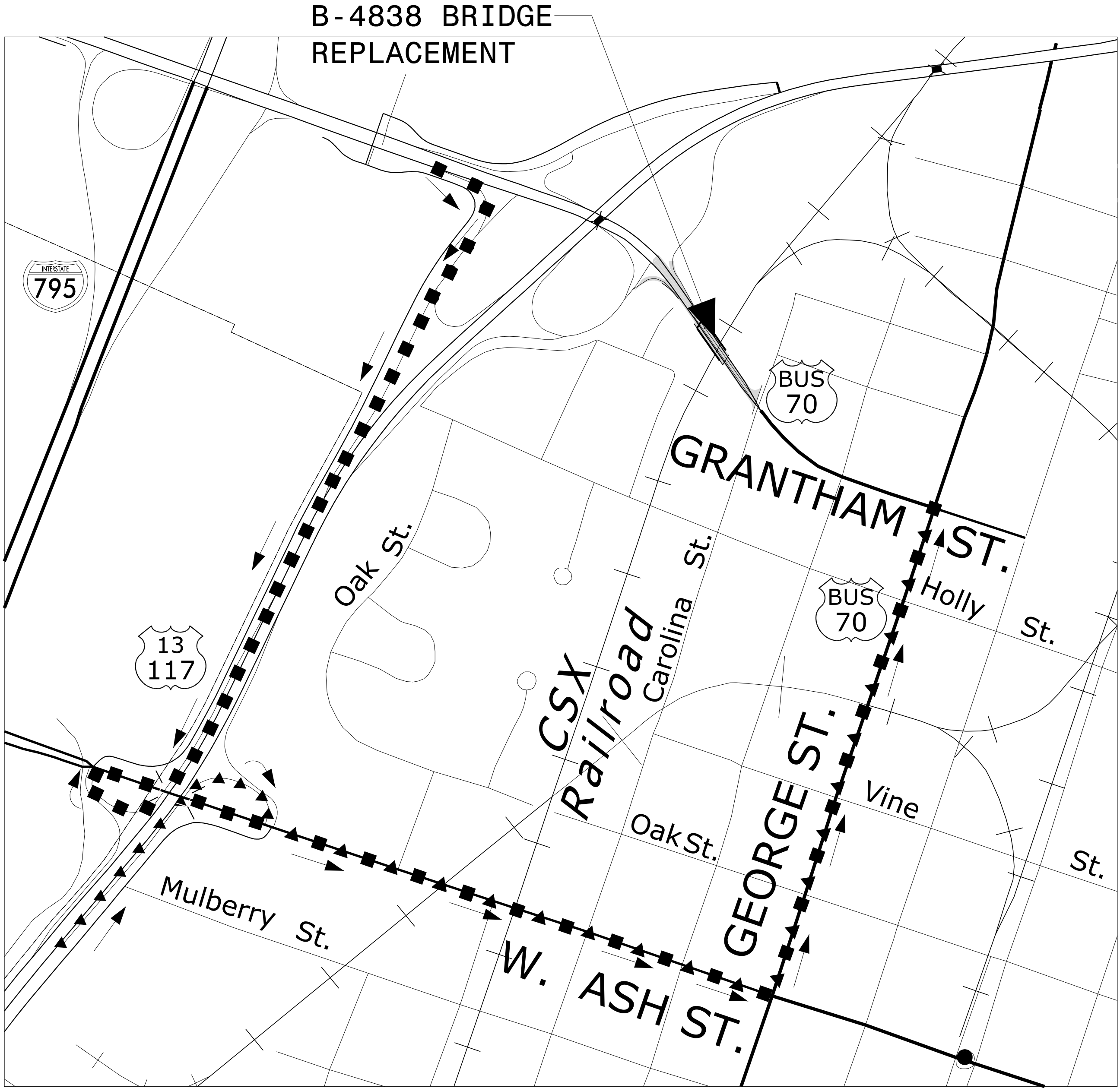


WESTBOUND W. GRANTHAM ST.
DETOUR ROUTE
SEE TMP-6 THRU TMP-11 FOR DETAILS

PROPOSED EB DETOUR ROUTE (BUS 70)	■ ■ ■ ■ ■
PROPOSED EB DETOUR ROUTE (US 117)	▲ ▲ ▲ ▲ ▲
PROPOSED WB DETOUR ROUTE (BUS 70)	● ● ● ● ●
TRAFFIC DIRECTION ARROWS	→ ←



EASTBOUND W. GRANTHAM ST.
DETOUR ROUTES
SEE TMP-6 THRU TMP-11 FOR DETAILS

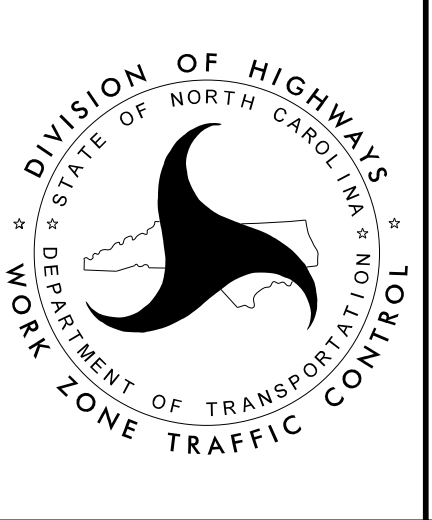


AECOM
NC Firm License No.: F-0342
5438 Wade Park Blvd, Suite 200
Suite 475 Raleigh, NC 27607
Phone: 919-854-6200

APPROVED: _____
DATE: 9/13/2024

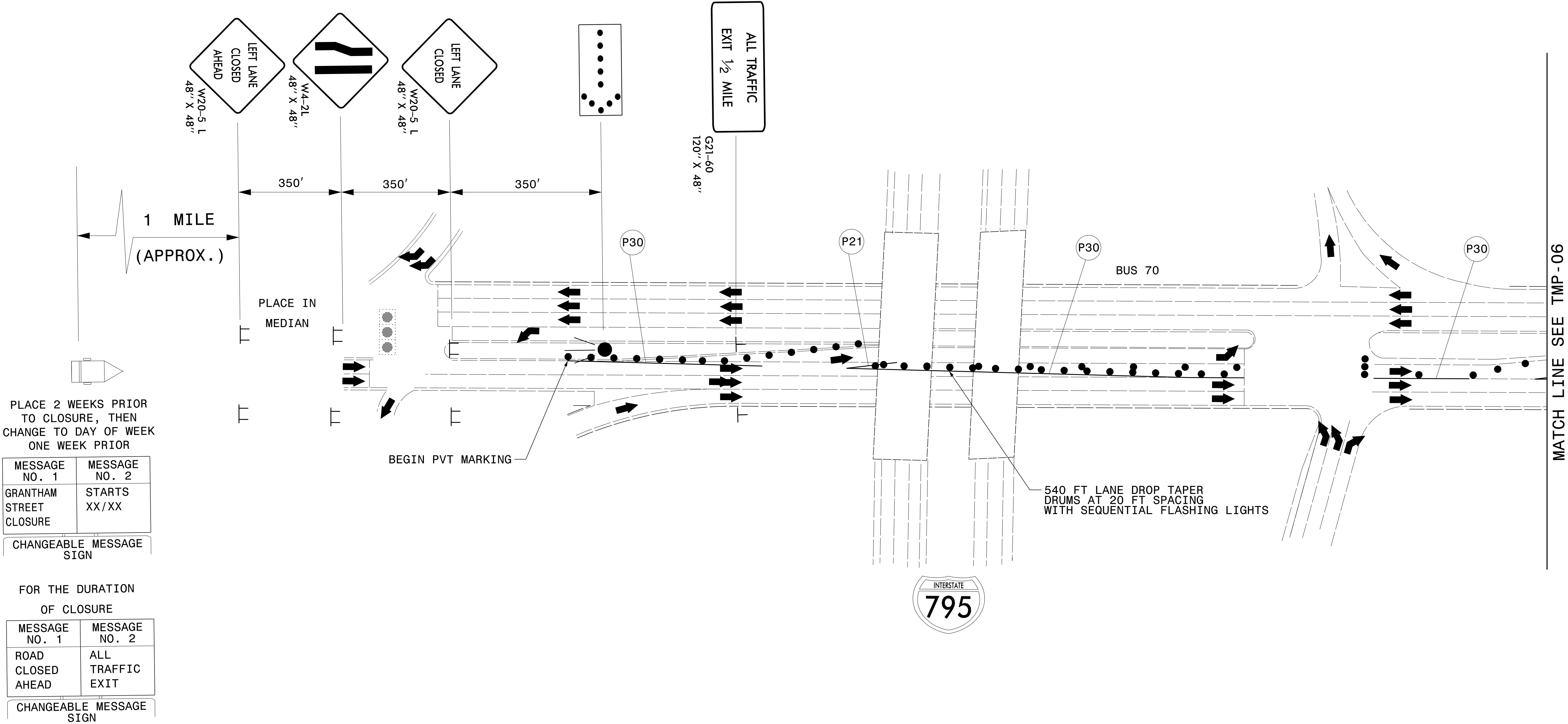
SEAL
018122
ENGINEER
JEFFREY K. KOONTZ
NORTH CAROLINA
PROFESSIONAL
ENGINEER

DOCUMENT NOT CONSIDERED FINAL
UNLESS ALL SIGNATURES COMPLETED



W. GRANTHAM ST
DETOUR ROUTE
OVERVIEWS

9/11/2024
pw:\\aecom-na-pw.bentley.com\\aecom_usa\\North Carolina\\Documents\\60598150-NC DOT SMU B-4838\\900-CAD GIS\\910-CAD\\70-NC DOT_TIP\\Traffic\\TrafficControl\\TCP\\250_B4838_fc_TMP-05_phide+gill.dgn
User: jeff.koontz

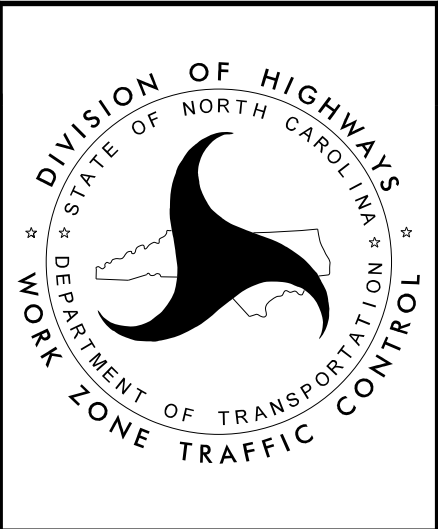


AECOM
NC Firm License No.: F-0342
5438 Wade Park Blvd, Suite 200
Suite 475 Raleigh, NC 27607
Phone: 919-854-6200

APPROVED: _____
DATE: 9/13/2024

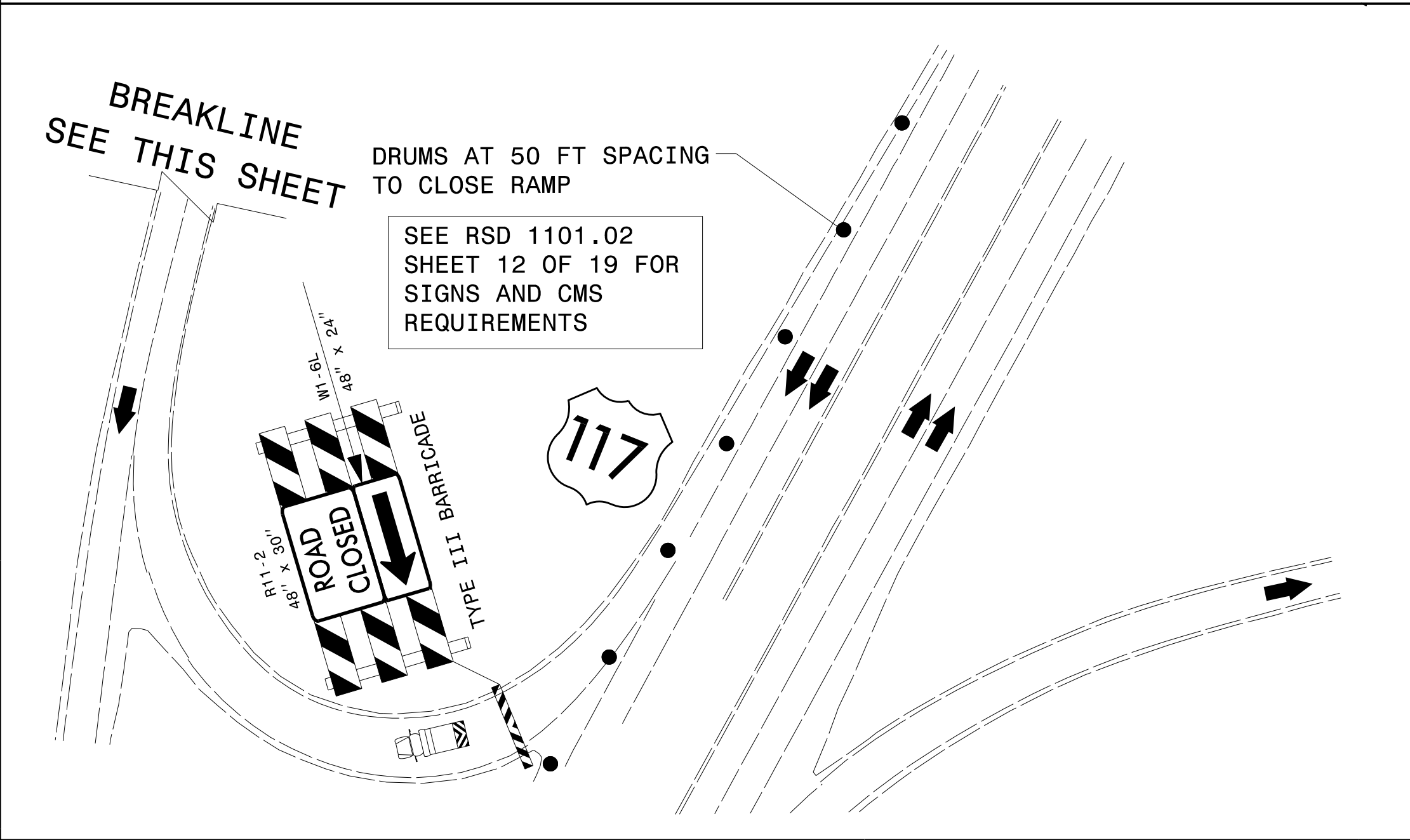
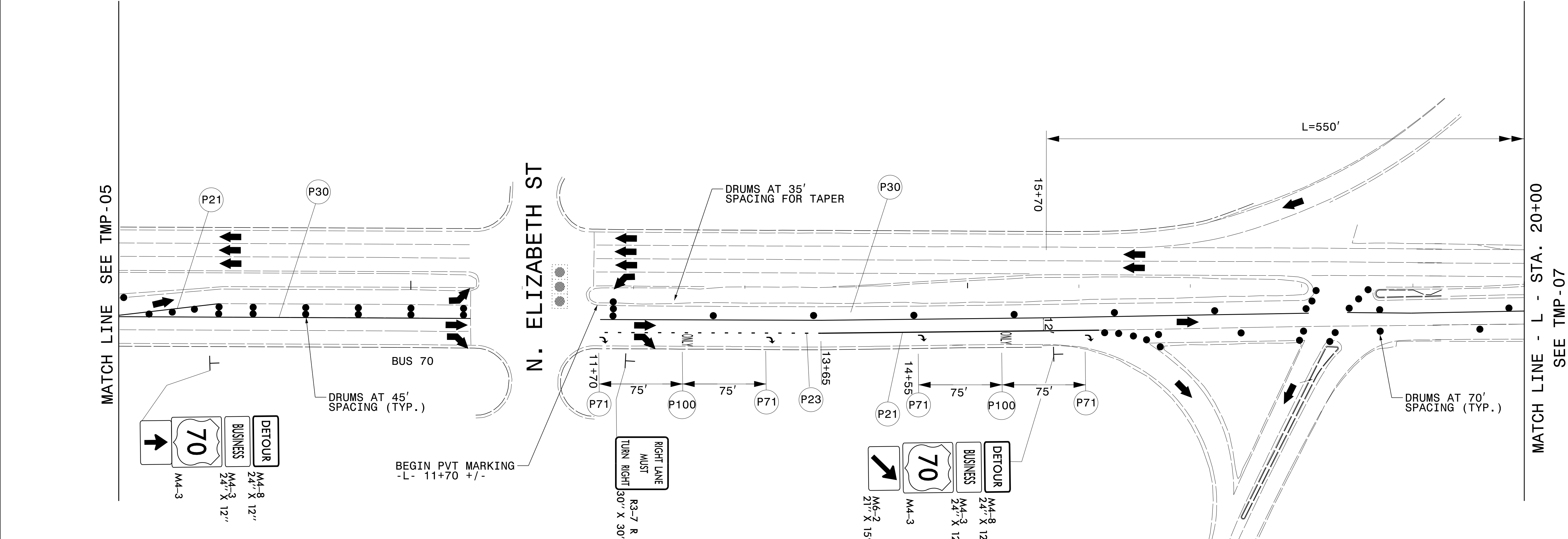
Seal of Jeffrey K. Koontz, Professional Engineer, State of North Carolina, Seal 018122.

DOCUMENT NOT CONSIDERED FINAL
UNLESS ALL SIGNATURES COMPLETED



PHASE I DETAIL
US BUS 70

PROJ. REFERENCE NO.	SHEET NO.
B - 4838	TMP - 06



APPROVED: _____

DATE: 9/13/2024

SEAL

018122

JEFFREY K. KOONTZ

PROFESSIONAL ENGINEER

STATE OF NORTH CAROLINA

Document ID: B1EBE6CCD23847

DOCUMENT NOT CONSIDERED FINAL
UNLESS ALL SIGNATURES COMPLETED

DIVISION OF HIGHWAYS

STATE OF NORTH CAROLINA

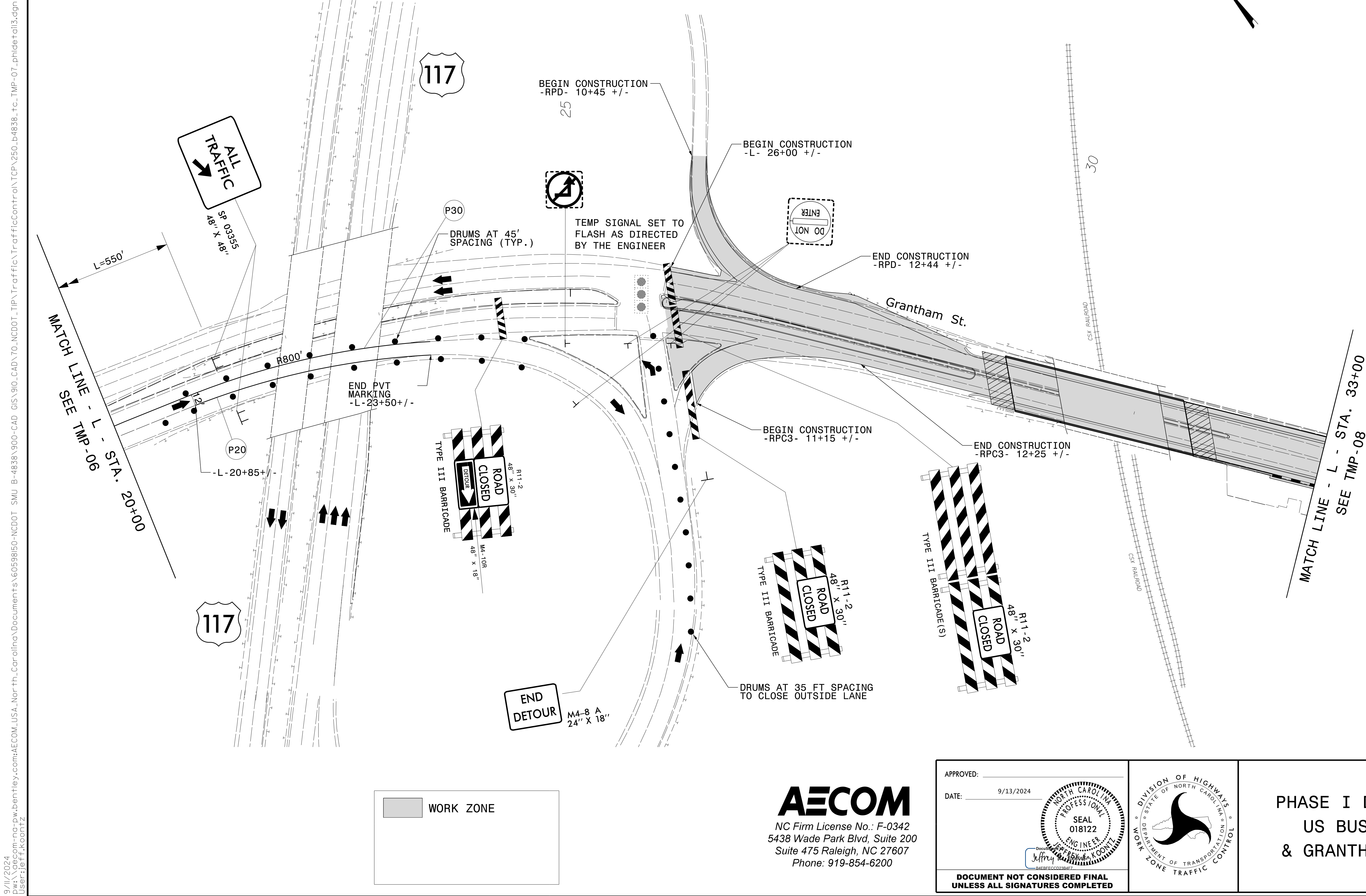
DEPARTMENT OF TRANSPORTATION

WORK ZONE TRAFFIC CONTROL

PHASE I DETAIL

US BUS 70

PROJ. REFERENCE NO.	SHEET NO.
B-4838	TMP-07



9/11/2024
pw:\aecom-na-pw-bentley.com\AECOM_USA_North_Carolina\Documents\60598150-NCDOT_SMU_B-4838\900-CAD-GIS\910-CAD\70-NCDOT_TIP\Traffic\TrafficControl\TCP\250_B4838_fc_TMP-07_phidet+at13.dgn
User:jeff.koontz

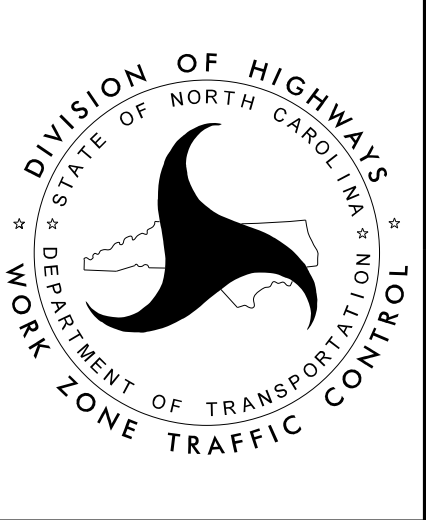
WORK ZONE

AECOM
NC Firm License No.: F-0342
5438 Wade Park Blvd, Suite 200
Suite 475 Raleigh, NC 27607
Phone: 919-854-6200

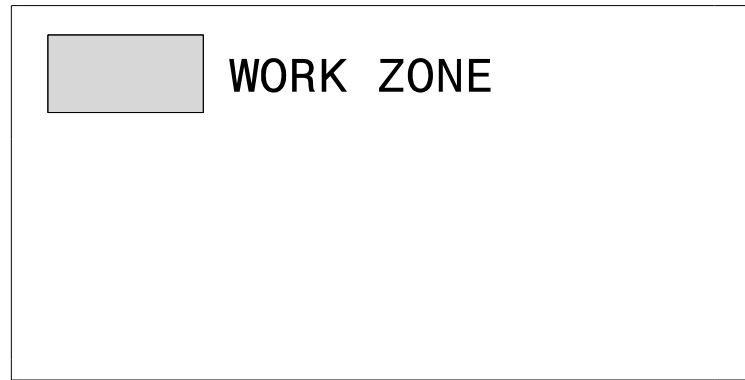
APPROVED: _____
DATE: 9/13/2024

SEAL
018122
ENGINEER
JEFFREY K. KOONTZ
NORTH CAROLINA
PROFESSIONAL
ENGINEER

DOCUMENT NOT CONSIDERED FINAL
UNLESS ALL SIGNATURES COMPLETED

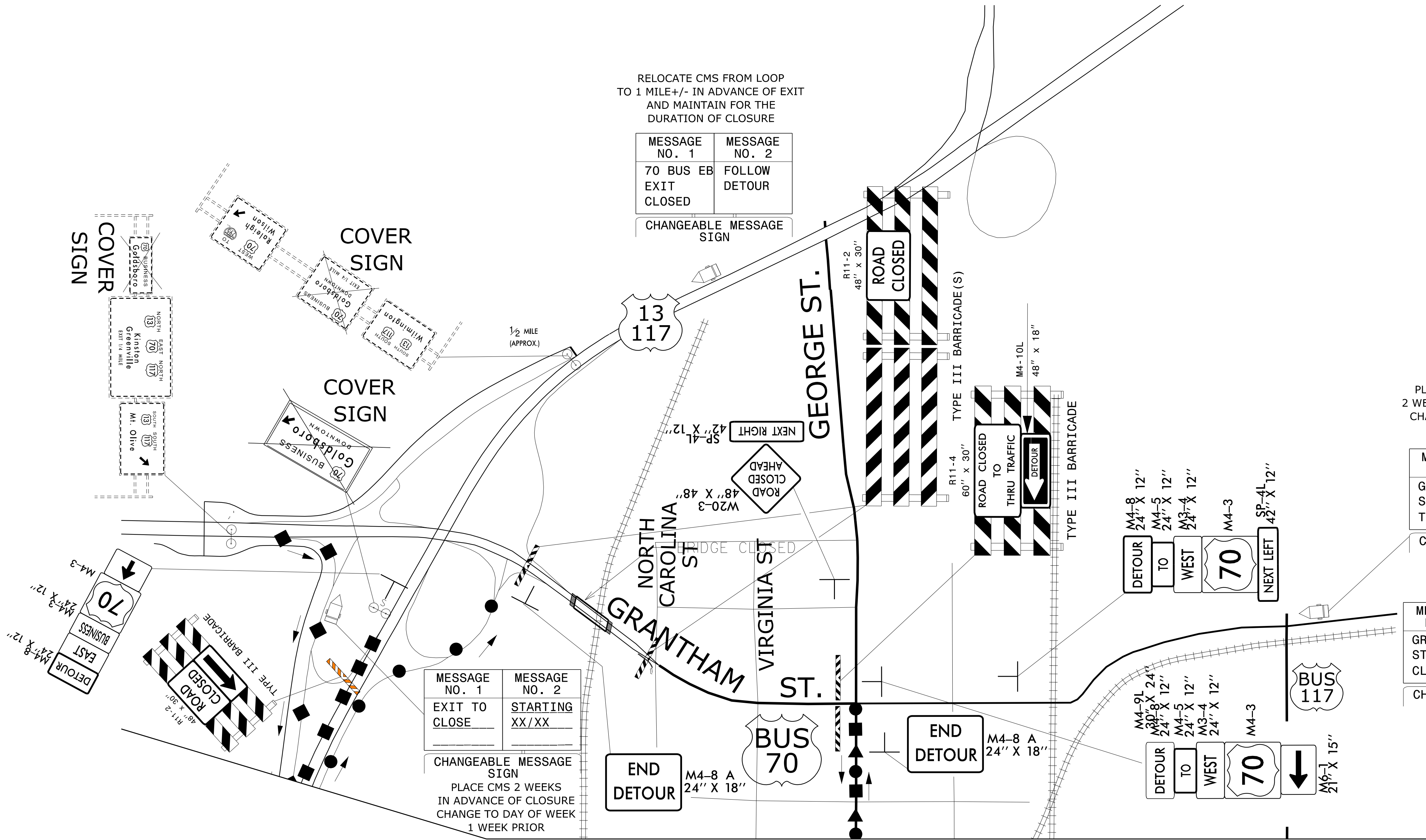


PHASE I DETAIL
US BUS 70
& GRANTHAM ST



AECOM
NC Firm License No.: F-0342
5438 Wade Park Blvd, Suite 200
Suite 475 Raleigh, NC 27607
Phone: 919-854-6200

PHASE I DETAIL
GRANTHAM ST



RELOCATE CMS FROM LOOP
TO 1 MILE +/- IN ADVANCE OF EXIT
AND MAINTAIN FOR THE
DURATION OF CLOSURE

MESSAGE NO. 1	MESSAGE NO. 2
70 BUS EB EXIT CLOSED	FOLLOW DETOUR

CHANGEABLE MESSAGE SIGN

PLACE EAST OF BUS 117
2 WEEKS PRIOR TO CLOSURE
CHANGE TO DAY OF WEEK
1 WEEK PRIOR

MESSAGE NO. 1	MESSAGE NO. 2
GRANTHAM STREET TO CLOSE	STARTING XX/XX

CHANGEABLE MESSAGE SIGN

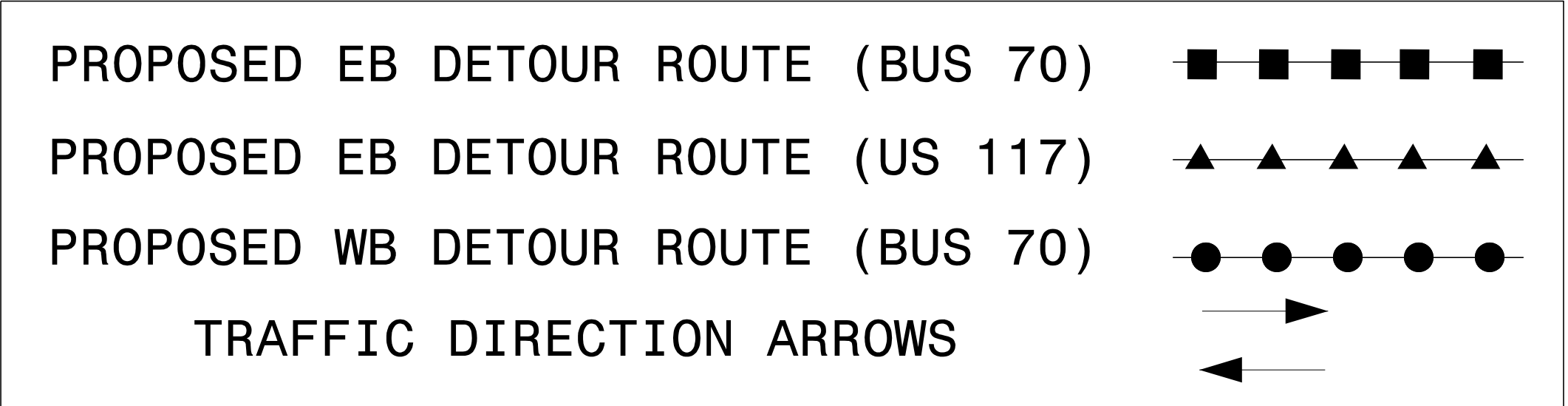
FOR THE DURATION
OF CLOSURE

MESSAGE NO. 1	MESSAGE NO. 2
GRANTHAM STREET CLOSED	FOLLOW DETOUR

CHANGEABLE MESSAGE SIGN

MATCH LINE SEE SHEET TMP-10

NOTE: LAYOUT AND SCALE SUBJECT TO CHANGE.

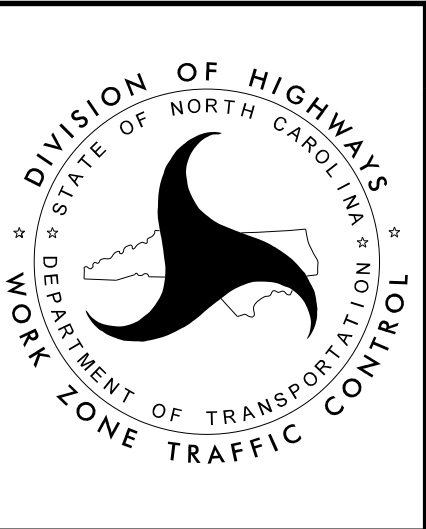


AECOM
NC Firm License No.: F-0342
5438 Wade Park Blvd, Suite 200
Suite 475 Raleigh, NC 27607
Phone: 919-854-6200

APPROVED: _____
DATE: 9/13/2024

SEAL 018122
JEFFREY K. KOONTZ
PROFESSIONAL ENGINEER
STATE OF NORTH CAROLINA

DOCUMENT NOT CONSIDERED FINAL
UNLESS ALL SIGNATURES COMPLETED



GRANTHAM ST
BRIDGE CLOSURE
DETOUR DETAILS


9/11/2024
pw:\aecom-na-pw.bentley.com\AECOM_USA\North_Carolina\Documents\60598150-NC DOT SMU B-4838\900-CAD-615\910-CAD\70-NC DOT_TIP\Traffic\Control\TCP\250_B4838_to_TMP-09_phidetour.dgn
User: jeff.koontz




AECOM
NC Firm License No.: F-0342
5438 Wade Park Blvd, Suite 200
Suite 475 Raleigh, NC 27607
Phone: 919-854-6200

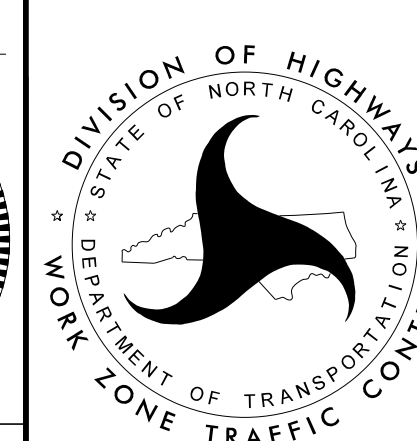
APPROVED: _____

DATE: _____ 9/13/2024


NORTH CAROLINA
PROFESSIONAL
SEAL
018122
ENGINEER
JAMES K KOONTZ

DocId:34567890
James K Koontz
B4E8FCCD028AF

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




GRANTHAM ST BRIDGE CLOSURE DETOUR DETAILS




MESSAGE NO. 1	MESSAGE NO. 2
GRANTHAM STREET EB CLOSED	USE ASH ST. EXIT
CHANGEABLE MESSAGE SIGN	

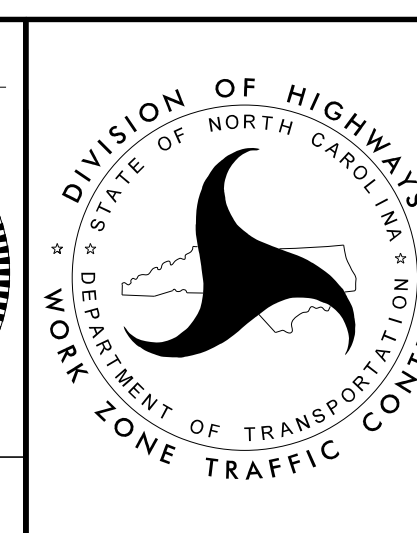
APPROVED: _____

DATE: _____ 9/13/2024

The seal is circular with a double-lined border. Inside the border, the words "NORTH CAROLINA" are at the top, "PROFESSIONAL" is on the right, "ENGINEER" is at the bottom, and "COUNCIL" is on the left. In the center, the word "SEAL" is above the number "018122".

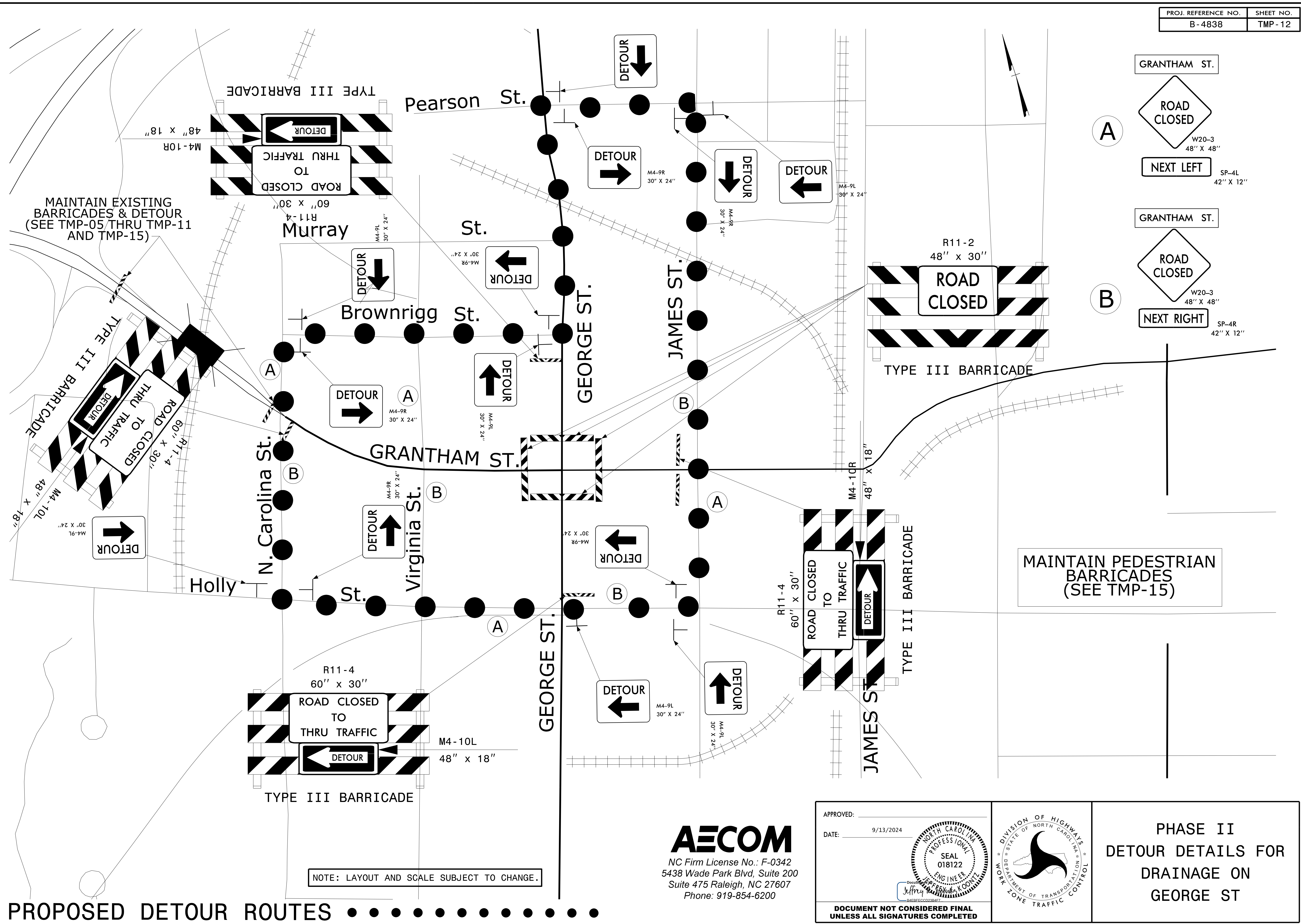
The seal is rectangular with a blue border. It contains the text "Professional Engineer" at the top, "Jeffrey M. Smith" in the center, and "04060000000000000000" at the bottom.

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



GRANTHAM ST BRIDGE CLOSURE DETOUR DETAILS

9/11/2024
pw:\aecom-na-pw.bentley.com\AECOM_USA_North_Carolina\Documents\60598150-NC DOT SMU B-4838\900-CAD-GIS\910-CAD\70-NC DOT_TIP\Traffic\TrafficControl\CP\250_B4838_to_TMP-12_pnl\TLdetourC60.dgn
User: jeff.koontz

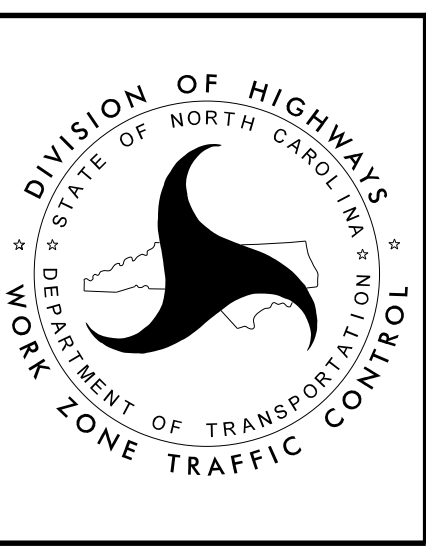


AECOM
NC Firm License No.: F-0342
5438 Wade Park Blvd, Suite 200
Suite 475 Raleigh, NC 27607
Phone: 919-854-6200

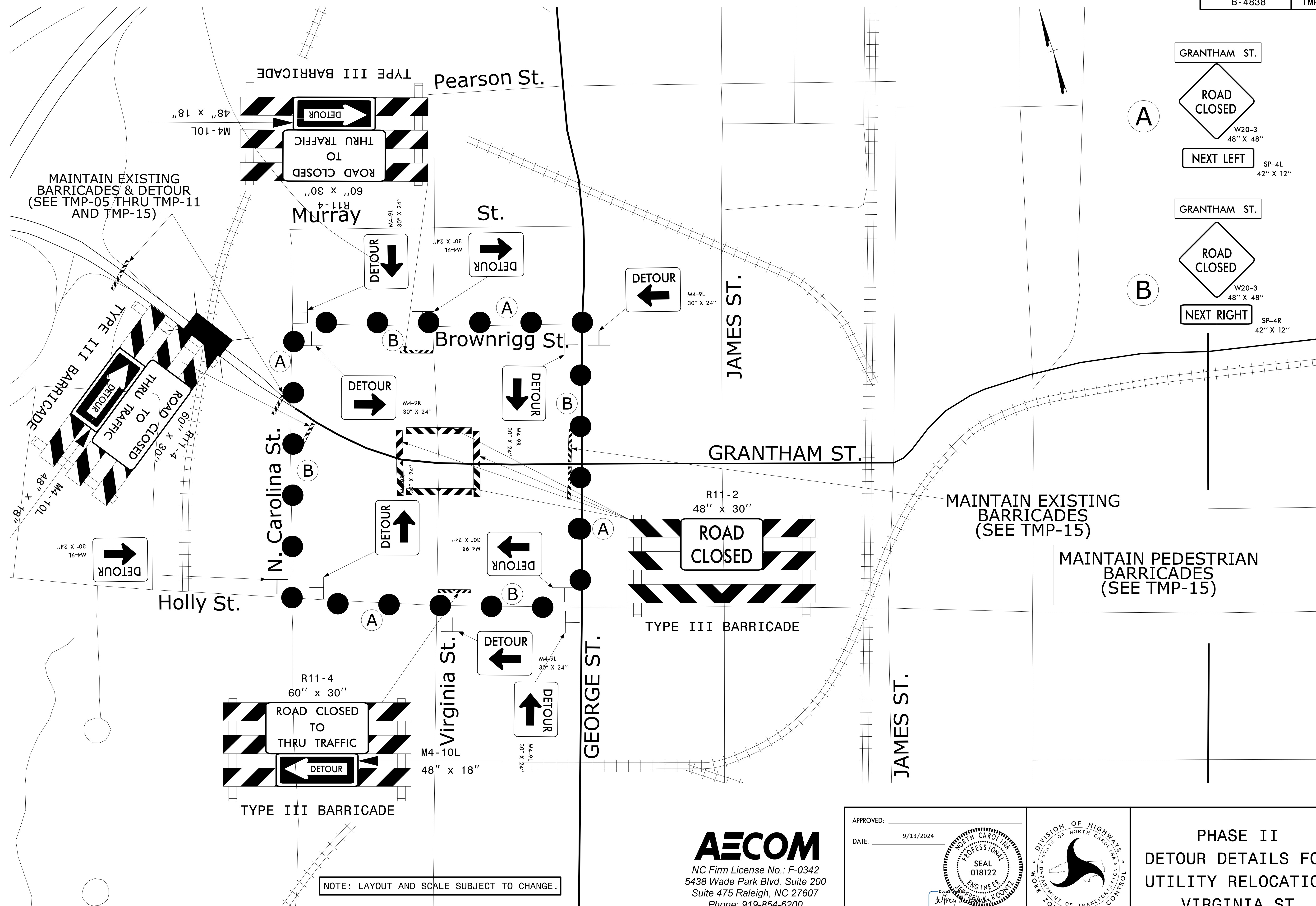
APPROVED: _____
DATE: 9/13/2024

Seal of Jeffery K. Koontz, Professional Engineer, State of North Carolina, License No. 018122

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



**PHASE II
DETOUR DETAILS FOR
DRAINAGE ON
GEORGE ST**



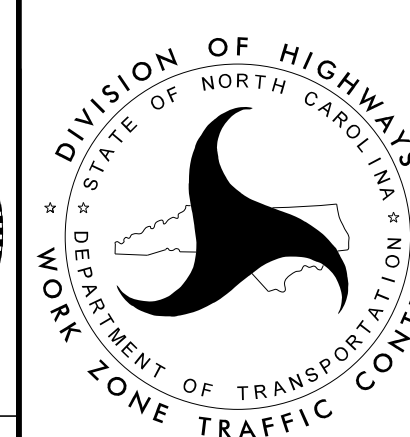
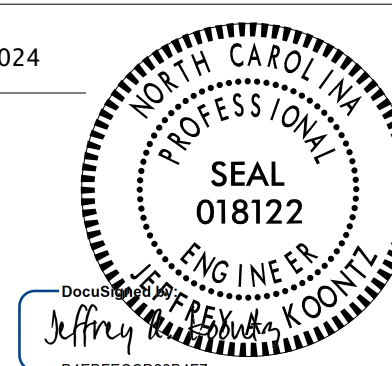
PROPOSED DETOUR ROUTES ● ● ● ● ● ● ● ● ● ● ● ●

AECOM

NC Firm License No.: F-0342
5438 Wade Park Blvd, Suite 200
Suite 475 Raleigh, NC 27607
Phone: 919-854-6200

APPROVED: _____

DATE: _____ 9/13/2024




PHASE II
DETOUR DETAILS FOR
UTILITY RELOCATION
VIRGINIA ST



NC Firm License No.: F-0342
5438 Wade Park Blvd, Suite 200
Suite 475 Raleigh, NC 27607
Phone: 919-854-6200

APPROVED: _____

DATE: _____ 9/13/2024 _____

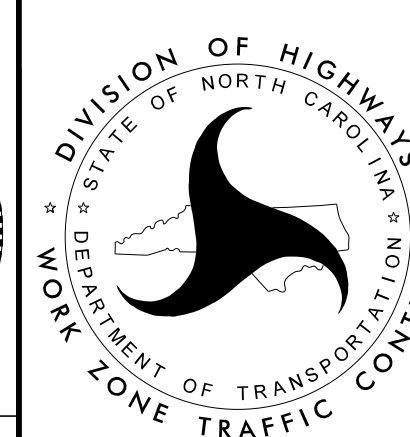


DocuSign Envelope ID: 85F0A8E0-4540-4000-9000-000000000000

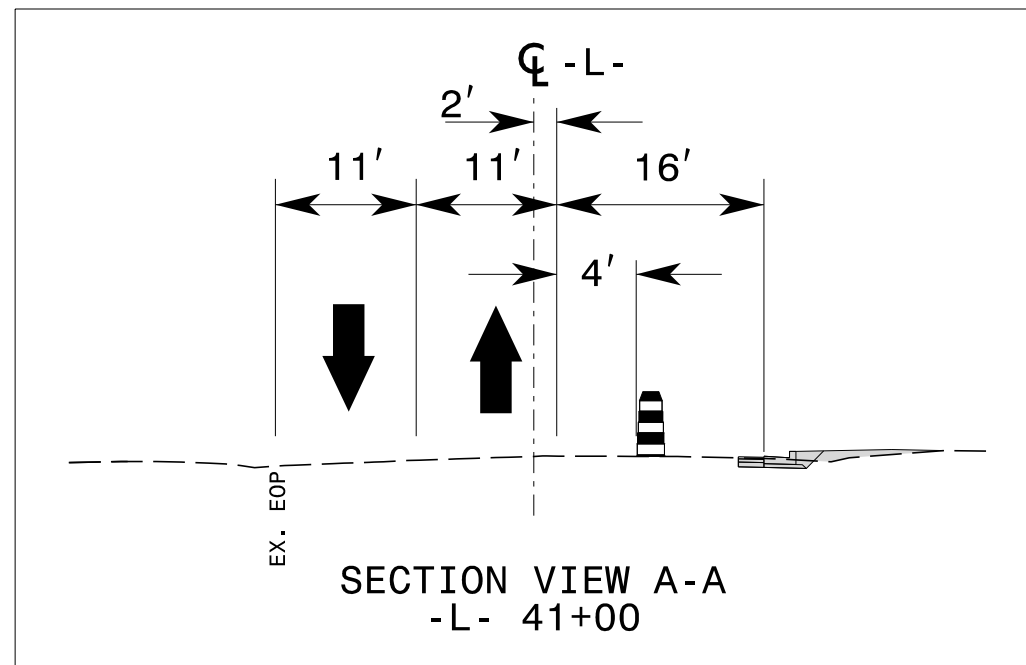
Jeffrey K. Smith

816E9EECCD2046E

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



PHASE II
DETOUR DETAILS
UTILITY RELOCATION
NORTH CAROLINA ST



NOTE:
SEE DETAIL ON TMP-13
FOR VIRGINIA ST
INTERSECTION CLOSURE
WITH OFF-SITE DETOUR

NOTE:
SEE DETAIL ON TMP-12
FOR GEORGE ST
INTERSECTION CLOSURE
WITH OFF-SITE DETOUR

INSTALL STR 803
PLATE & PAVE OVER
SEE TMP-12 FOR INTERSECTION
CLOSURE AND TEMP DETOUR

END PVT MARKING
-L- 48+00+/- LT

END PVT MARKING
-L- 46+81+/- RT

125' LANE TAPER

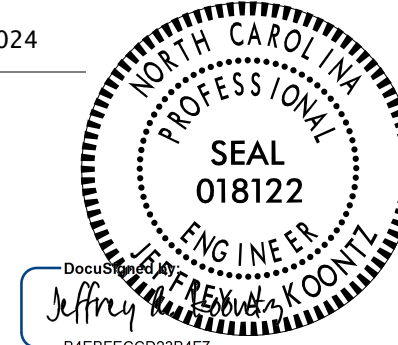
 WORK ZONE

AECOM

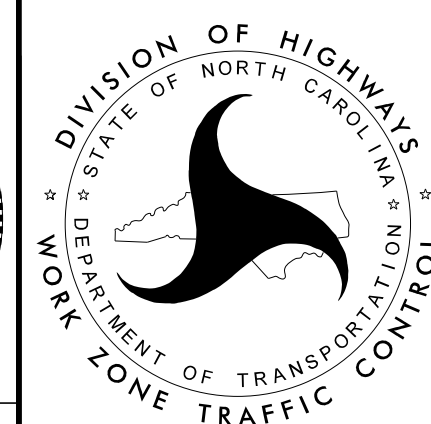
NC Firm License No.: F-0342
5438 Wade Park Blvd, Suite 200
Suite 475 Raleigh, NC 27607
Phone: 919-854-6200

APPROVED: _____

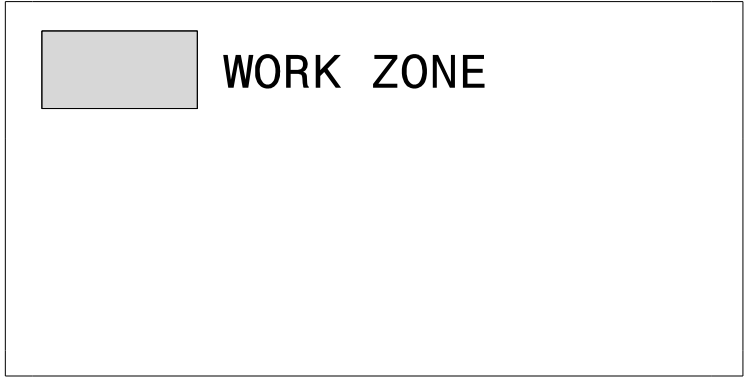
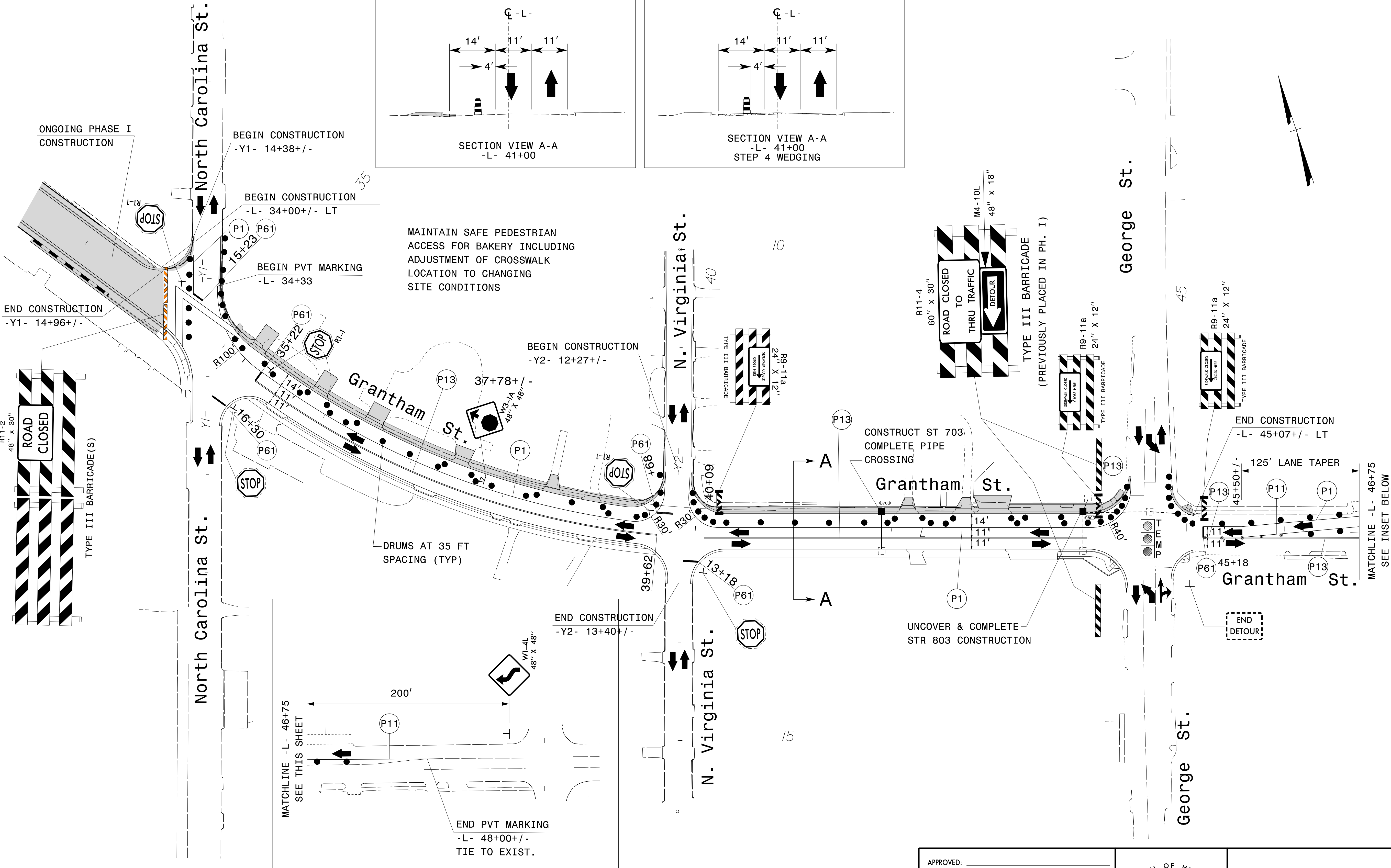
DATE: 9/13/2024



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



PHASE II DETAIL
GRANTHAM ST



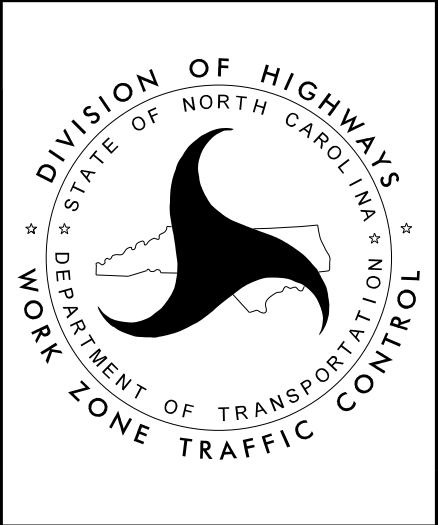
AECOM
NC Firm License No.: F-0342
5438 Wade Park Blvd, Suite 200
Suite 475 Raleigh, NC 27607
Phone: 919-854-6200

APPROVED:

DATE: 9/13/2024

JEFFREY KOONTZ
PROFESSIONAL ENGINEER
SEAL 018122
STATE OF NORTH CAROLINA

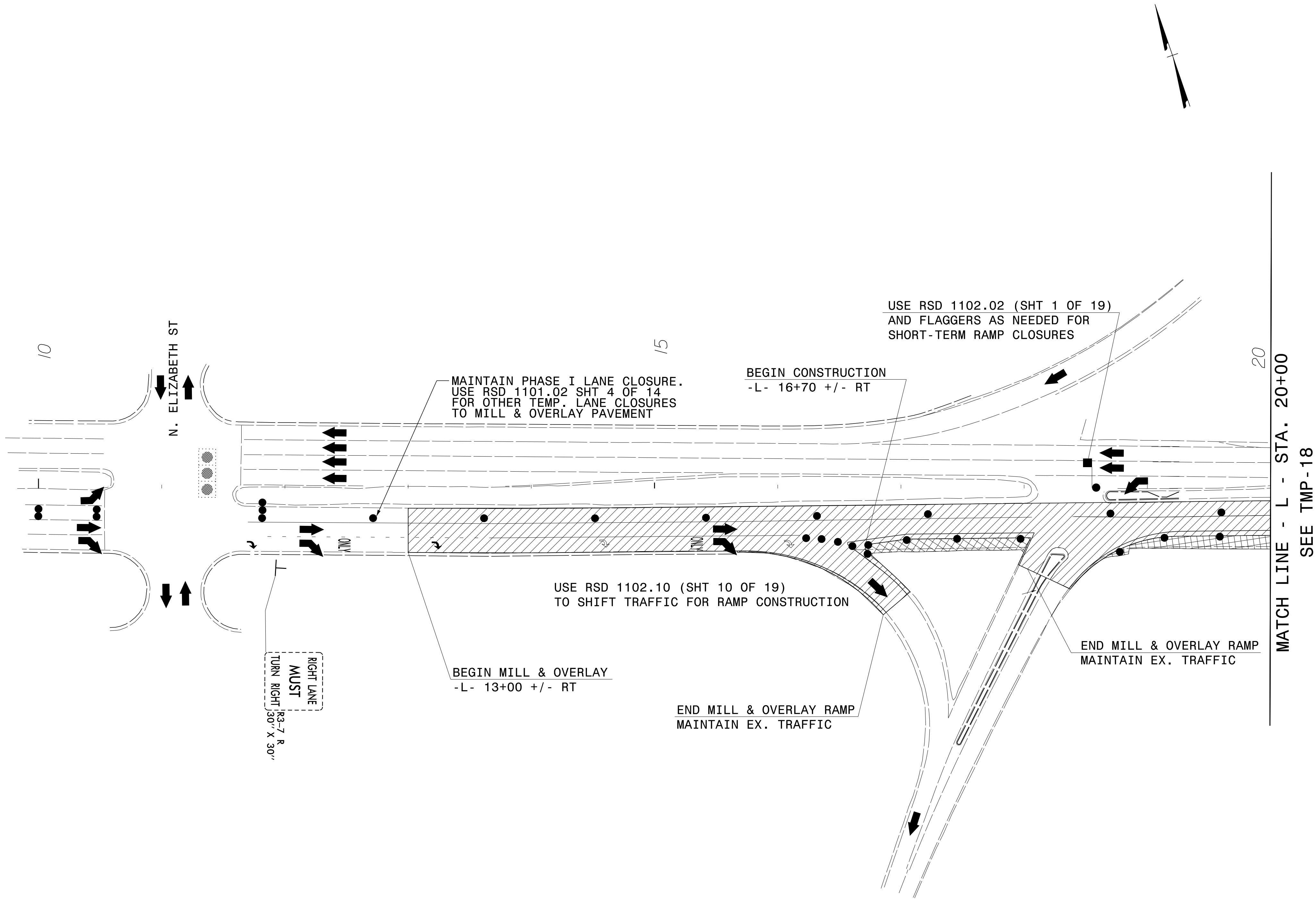
DOCUMENT NOT CONSIDERED FINAL
UNLESS ALL SIGNATURES COMPLETED



PHASE III DETAIL
GRANTHAM ST

9/11/2024
pw:\aecom-na-pw-bentley.com\AECOM_USA_North_Carolina\Documents\60598150-NCDOT_SMU_B-4838\900-CAD_GIS\910-CAD\70-NCDOT_TIP\Traffic\TrafficControl\TCP\250_B4838_to_TMP-17_ph5detail.dgn
User: jeff.koontz

PROJ. REFERENCE NO.	SHEET NO.
B - 4838	TMP - 17



MATCH LINE - L - STA. 20+00
SEE TMP-18

MILL & OVERLAY

PAVEMENT REMOVAL

AECOM
NC Firm License No.: F-0342
5438 Wade Park Blvd, Suite 200
Suite 475 Raleigh, NC 27607
Phone: 919-854-6200

APPROVED: _____
DATE: 9/13/2024

Seal of Jeffery Koontz, Professional Engineer, State of North Carolina, Seal 018122

Jeffery Koontz
Professional Engineer
018122

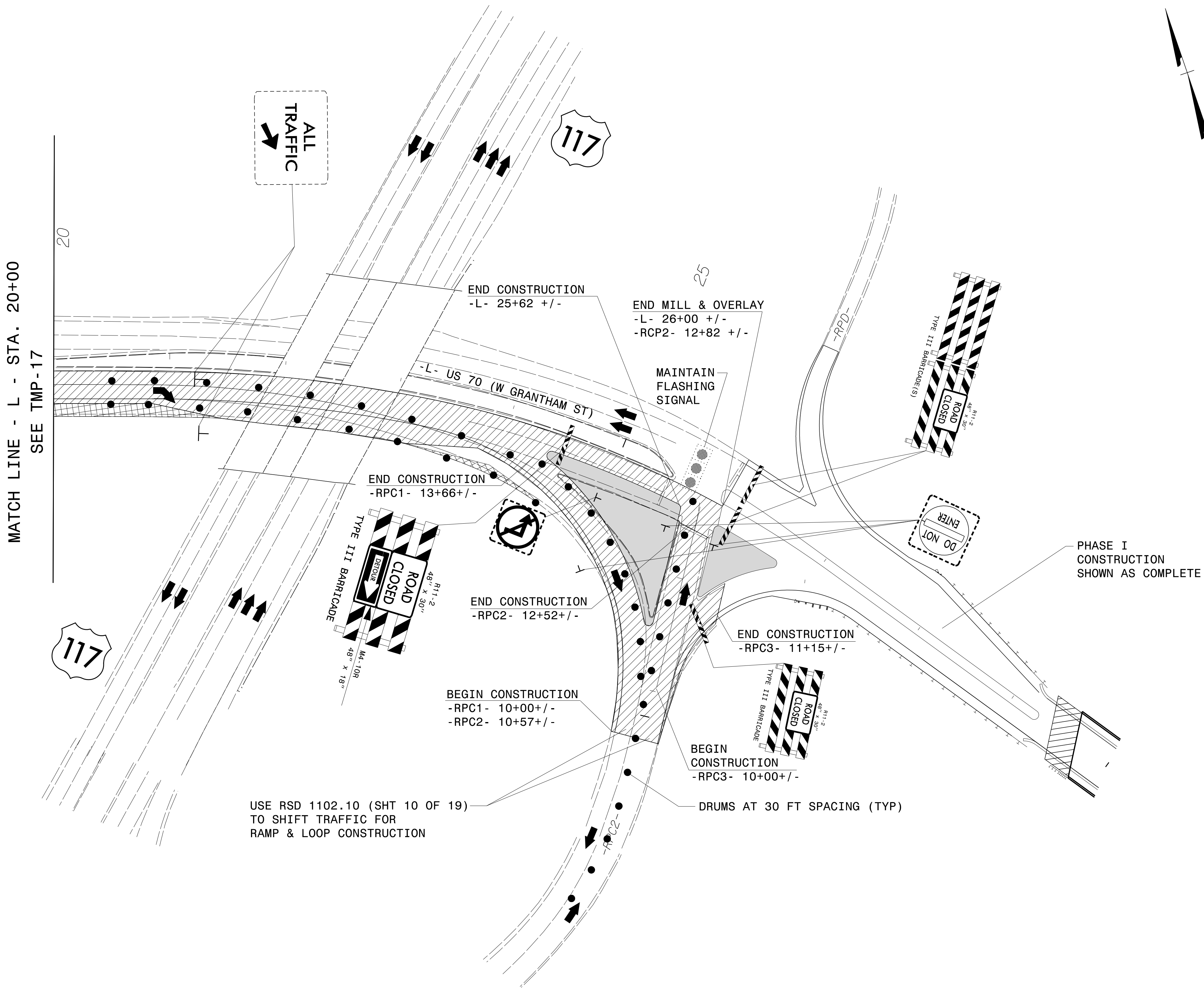
DOCUMENT NOT CONSIDERED FINAL
UNLESS ALL SIGNATURES COMPLETED

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

PHASE IV DETAIL
US BUS 70

9/11/2024
pw:\aecom-na-pw-bentley.com\AECOM_USA_North Carolina\Documents\60598150-NCDOT SMU B-4838\900-CAD GIS\910-CAD\70-NCDOT_TIP\TrafficControl\CP\250_B4838_to_TMP-18_ph5detail2.dgn
User:jeff.koontz

PROJ. REFERENCE NO.	SHEET NO.
B-4838	TMP-18



MILL & OVERLAY

PAVEMENT REMOVAL

AECOM

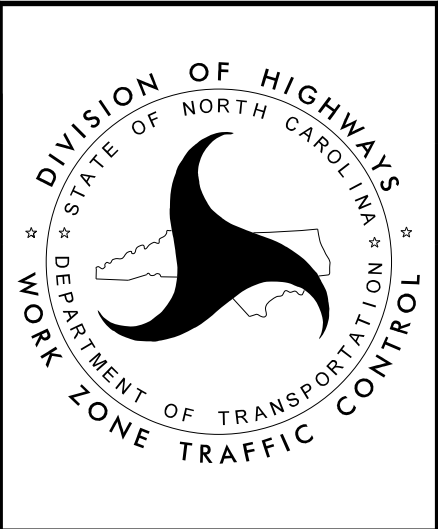
NC Firm License No.: F-0342
5438 Wade Park Blvd, Suite 200
Suite 475 Raleigh, NC 27607
Phone: 919-854-6200

APPROVED: _____

DATE: 9/13/2024

Seal of the State of North Carolina Professional Engineer
Jeffrey Koontz
018122
919-854-6200

DOCUMENT NOT CONSIDERED FINAL
UNLESS ALL SIGNATURES COMPLETED



PHASE IV DETAIL
US BUS 70