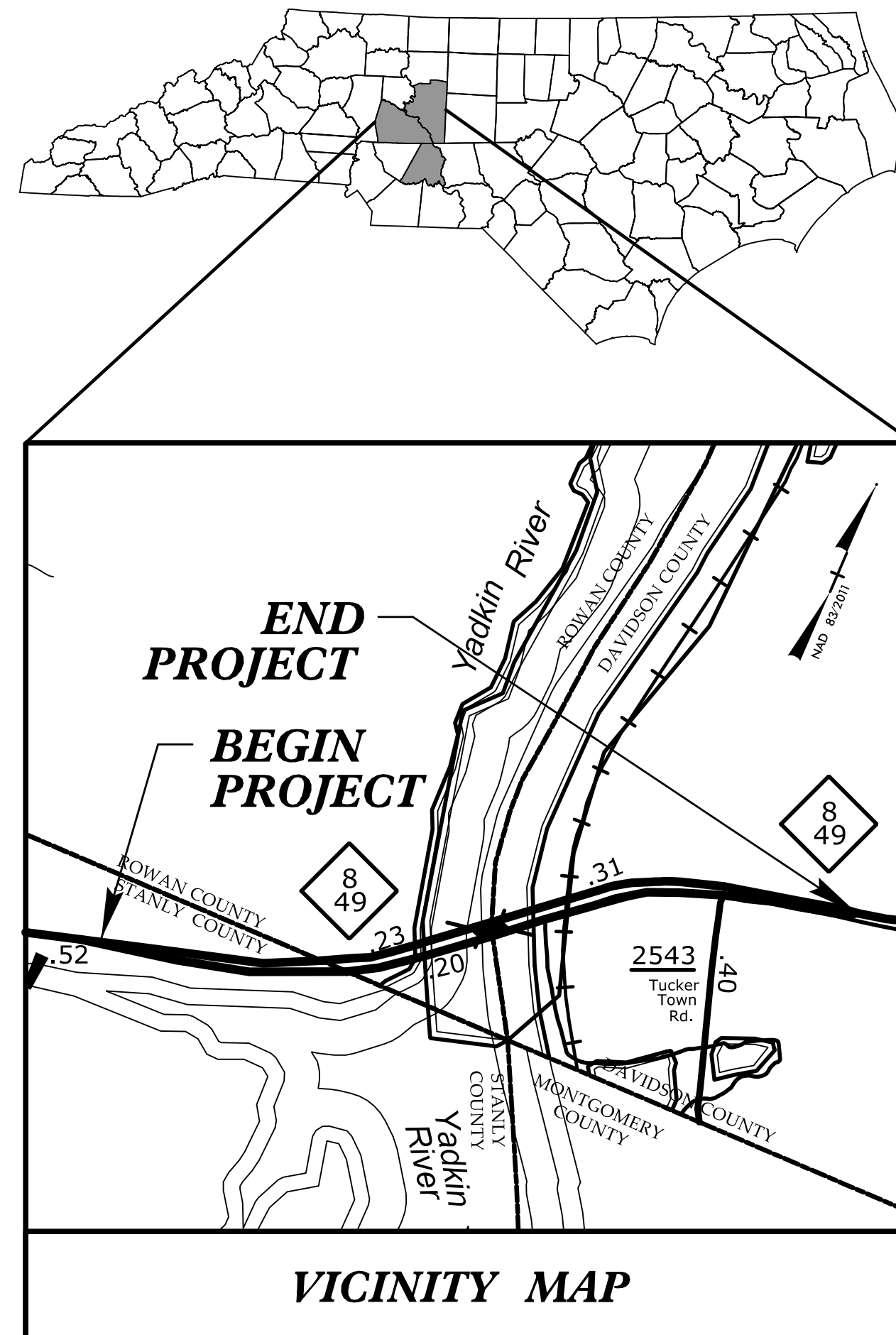


STATE OF NORTH CAROLINA  
DIVISION OF HIGHWAYS

**TRANSPORTATION MANAGEMENT PLAN**  
**STANLY, ROWAN, AND DAVIDSON COUNTIES**



**LOCATION:** REPLACE BRIDGE 790003 AND APPLY DECK PRESERVATION TREATMENT TO BRIDGE 790008 OVER YADKIN RIVER AND WINSTON-SALEM SOUTHBOUND RAILROAD

**TYPE OF WORK:** GRADING, DRAINAGE, PAVING, AND STRUCTURES

<b>INDEX OF SHEETS</b>	
<u>SHEET NO.</u>	<u>TITLE</u>
TMP-1	TITLE SHEET, VICINITY MAP AND INDEX OF SHEETS
TMP-1A	LIST OF APPLICABLE ROADWAY STANDARD DRAWINGS, LEGEND AND TEMPORARY PAVEMENT MARKING SCHEDULE
TMP-1B	TRANSPORTATION OPERATIONS PLAN: (MANAGEMENT STRATEGIES AND GENERAL NOTES)
TMP-2	TEMPORARY TRAFFIC CONTROL PHASING
TMP-3-6	TEMPORARY TRAFFIC CONTROL PHASE I DETAILS
TMP-7-10	TEMPORARY TRAFFIC CONTROL PHASE II DETAILS
TMP-11-14	TEMPORARY TRAFFIC CONTROL PHASE III DETAILS

SHEET NO.  
TMP-1

**B-4626**

**TIP PROJECT:**

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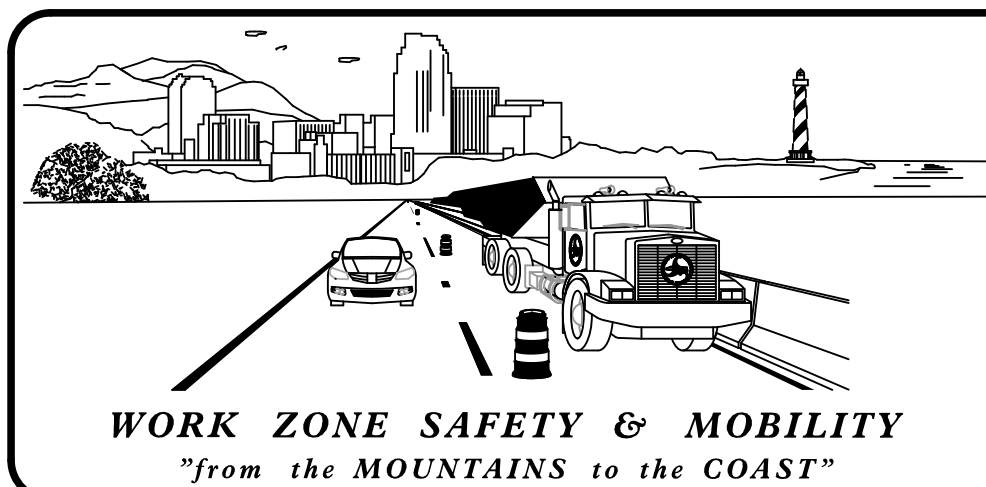
H. SHYU, P.E. \_\_\_\_\_ TRAFFIC CONTROL PROJECT ENGINEER  
R. B. EARLY, P.E. \_\_\_\_\_ QUALITY CONTROL ENGINEER

APPROVED: *Helen Shyu*  
DATE: 9/13/2021

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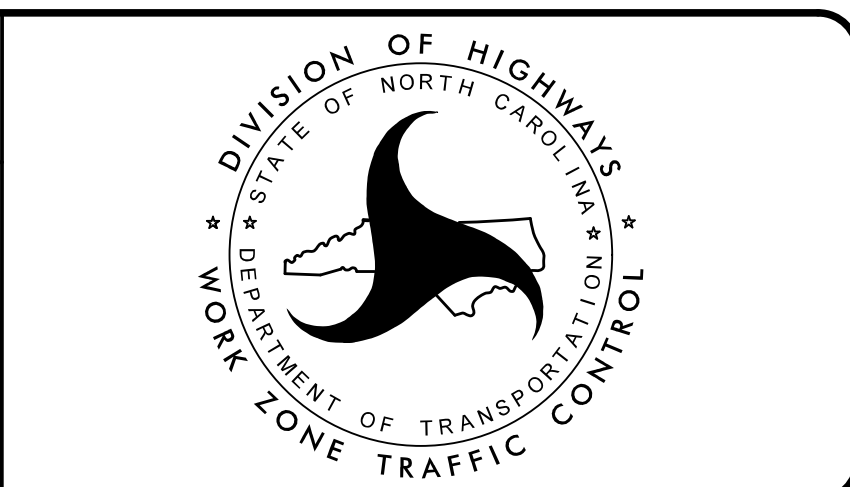
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Raleigh, North Carolina 27609  
NC License No: C-1554

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**N.C.D.O.T. WORK ZONE TRAFFIC CONTROL**  
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750 N. GREENFIELD PARKWAY, GARNER, NC 27529 (DELIVERY)  
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A. Y. LYUDMIRSKYA TRAFFIC CONTROL DESIGN ENGINEER



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# 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:

STD. NO.	TITLE
1101.01	WORK ZONE ADVANCE WARNING SIGNS
1101.02	TEMPORARY LANE CLOSURES
1101.03	TEMPORARY ROAD CLOSURES
1101.04	TEMPORARY SHOULDER CLOSURES
1101.05	WORK ZONE VEHICLE ACCESSES
1101.11	TRAFFIC CONTROL DESIGN TABLES
1110.01	STATIONARY WORK ZONE SIGNS
1110.02	PORTABLE WORK ZONE SIGNS
1115.01	FLASHING ARROW BOARDS
1130.01	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 MULTI-LANE ROADWAYS
1205.04	PAVEMENT MARKINGS - INTERSECTIONS
1205.05	PAVEMENT MARKINGS - TURN LANES
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
1262.01	GUARDRAIL END DELINEATION

# LEGEND

## GENERAL

- DIRECTION OF TRAFFIC FLOW
- DIRECTION OF PEDESTRIAN TRAFFIC FLOW
- EXIST. PVMT.
- NORTH ARROW
- PROPOSED PVMT.
- TEMP. SHORING (LOCATION PURPOSES ONLY)
- WORK AREA (AWAY FROM TRAFFIC)
- REMOVAL
- PROPOSED CONSTRUCTION (USING LANE CLOSURES AND/OR FLAGGERS)

## PAVEMENT MARKINGS

- EXISTING LINES
- TEMPORARY LINES

## TEMPORARY SIGNING

- PORTABLE SIGN
- STATIONARY SIGN
- STATIONARY OR PORTABLE SIGN

## TRAFFIC CONTROL DEVICES

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

## PAVEMENT MARKERS

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

## PAVEMENT MARKING SYMBOLS

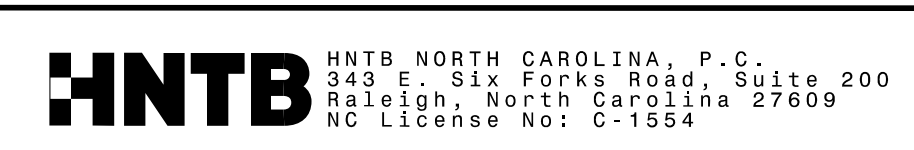
- PAVEMENT MARKING SYMBOLS

## TEMPORARY PAVEMENT MARKING

SYMBOL	DESCRIPTION	PAY ITEM
<u>PAVEMENT MARKING LINES</u>		
PAINT (4")		
P8	2 FT. - 6 FT./SP WHITE MINISKIP	
PA	WHITE EDGELINE	
PB	YELLOW EDGELINE	
PC	10 FT. WHITE SKIP	
PD	3 FT. - 9 FT./SP WHITE MINISKIP	
PE	WHITE SOLID LANE LINE	
PI	DOUBLE YELLOW CENTER LINE	
PAINT (8")		
PP	YELLOW DIAGONAL	
PN	WHITE GORELINE	
PAINT (24")		
P2	WHITE STOPBAR	

NOTE: FOR EACH PAINT PAVEMENT MARKING ITEM, REFER TO GENERAL NOTES FOR NUMBER OF APPLICATIONS.

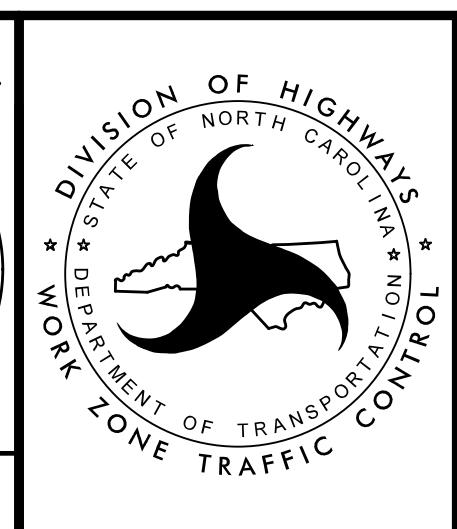
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DATE: 9/13/2021

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TRANSPORTATION  
MANAGEMENT PLAN

**ROADWAY STANDARD  
DRAWINGS, LEGEND &  
TEMPORARY PAVEMENT  
MARKING SCHEDULE**

## MANAGEMENT STRATEGIES

MAINTENANCE OF TRAFFIC FOR THIS PROJECT HAS BEEN DIVIDED INTO THREE PHASES: CONSTRUCT ROAD WIDENING, THEN SHIFT EASTBOUND TRAFFIC TO ONSITE DETOUR OVER THE EXISTING WESTBOUND BRIDGE No 790008. AFTER REPLACEMENT OF THE EASTBOUND BRIDGE No 790003, RETURN TRAFFIC TO FINAL PATTERN OVER BOTH BRIDGES.

DURING PHASE I, USE LANE CLOSURES TO WIDEN TO PROPOSED ON BOTH SIDES OF THE BRIDGES TO ALLOW TEMPORARY TRAFFIC SHIFT.

DURING PHASE II, USE LANE CLOSURES TO REMOVE EXISTING PAINT, PAINT TEMPORARY TRAFFIC PATTERN, AND SHIFT EASTBOUND TRAFFIC TO TEMPORARY TRAFFIC PATTERN. CLOSE EASTBOUND ROAD AND CONSTRUCT BRIDGE No 790003. OVERLAY ASPHALT AND INSTALL PAINT FOR FINAL TRAFFIC PATTERN.

DURING PHASE III, APPLY DECK PRESERVATION AND OVERLAY WESTBOUND ROAD UP TO BRIDGE. APPLY FINAL PAVEMENT MARKINGS.

## 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 UNDESIRED OVERLAPPING OF DEVICES. MODIFICATIONS 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 DURING HOLIDAYS AND SPECIAL EVENTS AS FOLLOWS:

#### ROAD NAME

NC 49

#### HOLIDAY

1. FOR ANY UNEXPECTED OCCURRENCE THAT CREATES UNUSUALLY HIGH TRAFFIC VOLUMES, AS DIRECTED BY THE ENGINEER.
2. FOR NEW YEAR'S DAY BETWEEN THE HOURS OF 6:00 AM DECEMBER 31ST TO 7:00 PM JANUARY 2ND. IF NEW YEAR'S DAY IS ON A FRIDAY, SATURDAY, SUNDAY, OR MONDAY, THEN UNTIL 7:00 PM THE FOLLOWING TUESDAY.
3. FOR EASTER, BETWEEN THE HOURS OF 6:00 AM THURSDAY AND 7:00 PM MONDAY.
4. FOR MEMORIAL DAY, BETWEEN THE HOURS OF 6:00 AM FRIDAY TO 7:00 PM TUESDAY.
5. FOR INDEPENDENCE DAY, BETWEEN THE HOURS OF 6:00 AM THE DAY BEFORE INDEPENDENCE DAY AND 7:00 PM THE DAY AFTER INDEPENDENCE DAY.

IF INDEPENDENCE DAY IS ON A FRIDAY, SATURDAY, SUNDAY OR MONDAY THEN BETWEEN THE HOURS OF 6:00 AM THE THURSDAY BEFORE INDEPENDENCE DAY AND 7:00 PM THE TUESDAY AFTER INDEPENDENCE DAY.

6. FOR LABOR DAY, BETWEEN THE HOURS OF 6:00 AM FRIDAY AND 7:00 PM TUESDAY.

7. FOR THANKSGIVING DAY, BETWEEN THE HOURS OF 6:00 AM TUESDAY TO 7:00 PM MONDAY.

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

B) DO NOT STOP TRAFFIC AS FOLLOWS:

<u>ROAD NAME</u>	<u>DAY AND TIME RESTRICTIONS</u>	<u>DURATION AND OPERATION</u>
NC 49	MONDAY THRU SUNDAY 6:00 AM - 7:00 PM	30 MINUTES FOR TRAFFIC SHIFT

C) 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

D) REMOVE LANE CLOSURE DEVICES FROM THE LANE WHEN WORK IS NOT BEING PERFORMED BEHIND THE LANE CLOSURE OR WHEN A LANE CLOSURE IS NO LONGER NEEDED OR AS DIRECTED BY THE ENGINEER.

E) WHEN PERSONNEL AND/OR EQUIPMENT ARE WORKING WITHIN 15 FT OF AN OPEN TRAVEL LANE, CLOSE THE NEAREST OPEN SHOULDER USING ROADWAY STANDARD DRAWING NO. 1101.04 UNLESS THE WORK AREA IS PROTECTED BY BARRIER OR GUARDRAIL OR A LANE CLOSURE IS INSTALLED.

F) WHEN PERSONNEL AND/OR EQUIPMENT ARE WORKING ON THE SHOULDER ADJACENT TO AN UNDIVIDED FACILITY AND WITHIN 5 FT OF AN OPEN TRAVEL LANE, CLOSE THE NEAREST OPEN TRAVEL LANE USING ROADWAY STANDARD DRAWING NO. 1101.02 UNLESS THE WORK AREA IS PROTECTED BY BARRIER OR GUARDRAIL.

WHEN PERSONNEL AND/OR EQUIPMENT ARE WORKING ON THE SHOULDER ADJACENT TO A DIVIDED FACILITY AND WITHIN 10 FT OF AN OPEN TRAVEL LANE, CLOSE THE NEAREST OPEN TRAVEL LANE USING ROADWAY STANDARD DRAWING NO. 1101.02 UNLESS THE WORK AREA IS PROTECTED BY BARRIER OR GUARDRAIL.

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

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

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

### PAVEMENT EDGE DROP OFF REQUIREMENTS

J) 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.

K) 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) 500 FEET IN ADVANCE AND A MINIMUM OF EVERY HALF MILE THROUGHOUT THE UNEVEN AREA.

### TRAFFIC PATTERN ALTERATIONS

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

M) MAINTAIN ACCESS TO -Y2- (TUCKERTOWN RD).

### SIGNING

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

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

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

Q) INSTALL BLACK ON ORANGE "DIP" SIGNS (W8-2) AND/OR "BUMP" SIGNS (W8-1) 500 FT IN ADVANCE OF THE UNEVEN AREA, OR AS DIRECTED BY THE ENGINEER.

### TRAFFIC CONTROL DEVICES

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

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

T) PLACE ADDITIONAL SETS OF THREE CHANNELIZING DEVICES PERPENDICULAR TO THE EDGE OF TRAVELWAY ON 500 FT CENTERS WHEN UNOPENED LANES ARE CLOSED TO TRAFFIC.

### PAVEMENT MARKINGS AND MARKERS

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

<u>ROAD NAME</u>	<u>MARKING</u>	<u>MARKER</u>
NC 49	PAINT	TEMPORARY RAISED

V) 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.

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

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

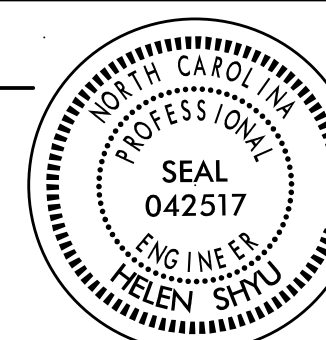
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Y) LAW ENFORCEMENT SHALL BE USED TO MAINTAIN TRAFFIC THROUGH THE WORK AND/OR INTERSECTIONS AS DIRECTED BY THE ENGINEER.

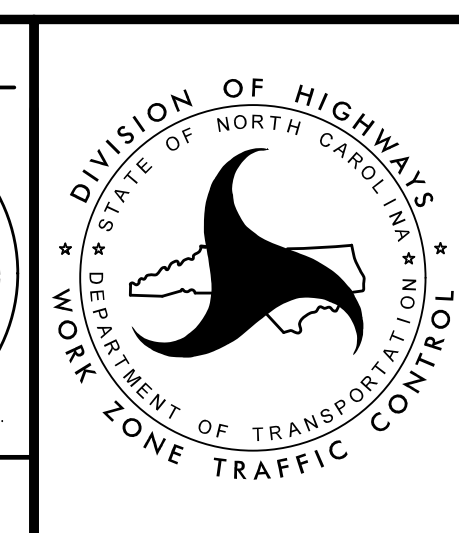
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*Helen Shyu*  
APPROVED: \_\_\_\_\_  
DATE: 9/13/2021

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TRANSPORTATION  
MANAGEMENT PLAN

TRANSPORTATION  
OPERATIONS PLAN:  
(MANAGEMENT STRATEGIES  
AND GENERAL NOTES)

## PHASING

**NOTE:**

REPLACE MARKINGS AND RETURN TO THE CURRENT TRAFFIC PATTERN AT THE END OF EACH WORK PERIOD UNLESS OTHERWISE NOTED IN THE PHASING OR DIRECTED BY THE ENGINEER.

MAINTAIN VEHICULAR ACCESS TO BOAT RAMP DURING THE LIFE OF THE CONTRACT UNLESS OTHERWISE NOTED IN THE PHASING OR DIRECTED BY THE ENGINEER.

COMPLETE ANY PROPOSED WIDENING IN SUCH A MANNER THAT PONDING OF WATER WILL NOT OCCUR IN THE TRAVEL LANE. THIS MAY REQUIRE A COMBINATION OF INSTALLATION OF PROPOSED PIPES, TEMPORARY PIPES, STEEL PLATES, TEMPORARY MEDIAN, AND OUTSIDE DITCHES.

PAVE PROPOSED CONSTRUCTION UP TO BUT NOT INCLUDING THE FINAL LAYER OF SURFACE COURSE, IN ALL PHASES UNTIL STATED TO INSTALL FINAL LAYER IN PHASING.

THE TERM RSD REFERS TO ROADWAY STANDARD DRAWINGS.

### PHASE I

**STEP 1:**

USING RSD 1101.01 (SHEET 3 OF 3), INSTALL ADVANCE WARNING SIGNS ON -WBL-/-EBL- AND -Y2-.

NOTE: STEPS 2 THRU 6 MAY BE DONE IN ANY ORDER

**STEP 2:**

USING RSD 1101.04, CLOSE SHOULDER AND CONSTRUCT NARROW WIDENING ON -WBL- FROM STA 15+39+/- TO STA 16+92+/- . (SEE TMP-3)

**STEP 3:**

USING RSD 1101.02 (SHEET 3 OF 14), INSTALL PROPOSED GUARDRAIL ON -WBL- :  
- FROM STA 24+25+/- TO STA 27+25+/- . (SEE TMP-4)  
- FROM STA 33+50+/- TO STA 34+80+/- AND LAP FOR 2-LANE 2-WAY TRAFFIC. (SEE TMP-4)

**STEP 4:**

USING RSD 1101.02 (SHEET 3 OF 14), CONSTRUCT PROPOSED WIDENING ON -WBL- FROM STA 46+07+/- TO STA 49+00+/- , INSTALL GUARDRAIL AND LAP FOR 2-LANE 2-WAY TRAFFIC. (SEE TMP-5)

**STEP 5:**

USING RSD 1101.02 (SHEET 3 OF 14), CONSTRUCT PROPOSED WIDENING ON -WBL- FROM STA 52+50+/- TO STA 55+69+/- AND FROM STA 56+73+/- TO STA 57+22+/- . (SEE TMP-5)

**STEP 6:**

USING RSD 1101.02 (SHEET 3 OF 14) AND RSD 1101.04 AS NEEDED, CONSTRUCT WIDENING ON -WBL- FROM STA 60+00+/- TO STA 64+02+/- . (SEE TMP-6)

### PHASE II

**STEP 1:**

USING RSD 1101.02 (SHEET 3 OF 14), RSD 1101.03 (SHEET 8 OF 9), AND POLICE AS NEEDED AT -Y2-, INSTALL PHASE II TEMPORARY PAVEMENT MARKINGS AND SHIFT -WBL-/-EBL- TRAFFIC TO PHASE II PATTERN. (SEE TMP-7 THRU TMP-10). COVER CONFLICTING SIGNS SUCH AS DO NOT ENTER AND WRONG WAY THAT WERE USED FOR DIVIDED ROAD.

**STEP 2:**

AWAY FROM TRAFFIC, COMPLETE BRIDGE CONSTRUCTION, CONSTRUCT -EBL- AS NEEDED, AND INSTALL PHASE III TEMPORARY PAVEMENT MARKINGS. (SEE TMP-7 THRU TMP-10)

**STEP 3:**

USING RSD 1101.02 (SHEET 1 OF 14) AND FLAGGERS, WEDGE AND WIDEN -Y2- AND -EBL- FROM STA 55+94+/- TO STA 56+68+/- . (SEE TMP-9)

**STEP 4:**

USING RSD 1101.02 (SHEET 1 OF 14) AND FLAGGERS, CONSTRUCT WEDGING AND WIDENING OF -WBL-/-EBL- FROM -EBL- STA 10+32+/- TO STA 13+50+/- AND STA 64+03+/- TO 70+32+/- . (SEE TMP-7 AND 10) USING RSD 1101.02 (SHEET 1 OF 14) AND FLAGGERS, INSTALL PHASE III TEMPORARY PAVEMENT MARKINGS, SHIFT EASTBOUND TRAFFIC TO PHASE III PATTERN ON PROPOSED BRIDGE AND PLACE DRUMS TO KEEP -WBL- IN ONE LANE PATTERN. (SEE TMP-11 THRU TMP-14)

### PHASE III

**STEP 1:**

USING DRUMS TO KEEP -WBL- OPEN TO ONE LANE AND SHIFTING TRAFFIC AS NEEDED, COMPLETE WEDGING OF -WBL- .

COMPLETE ALL REMAINING WORK, INCLUDING THE RELAP OF GUARDRAIL WHERE NEEDED.

**STEP 2:**

USING RSD 1101.02 (SHEETS 1, 2, AND 3 OF 14) AS NEEDED, PLACE FINAL LAYER OF SURFACE AND FINAL PAVEMENT MARKINGS AND MARKERS.

**STEP 3:**

REMOVE ALL TRAFFIC CONTROL DEVICES.

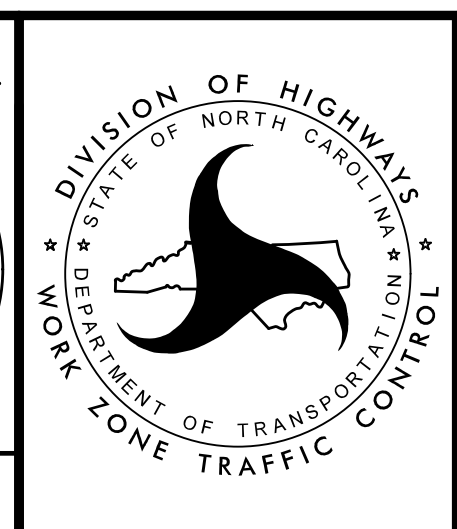
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DATE: 9/13/2021

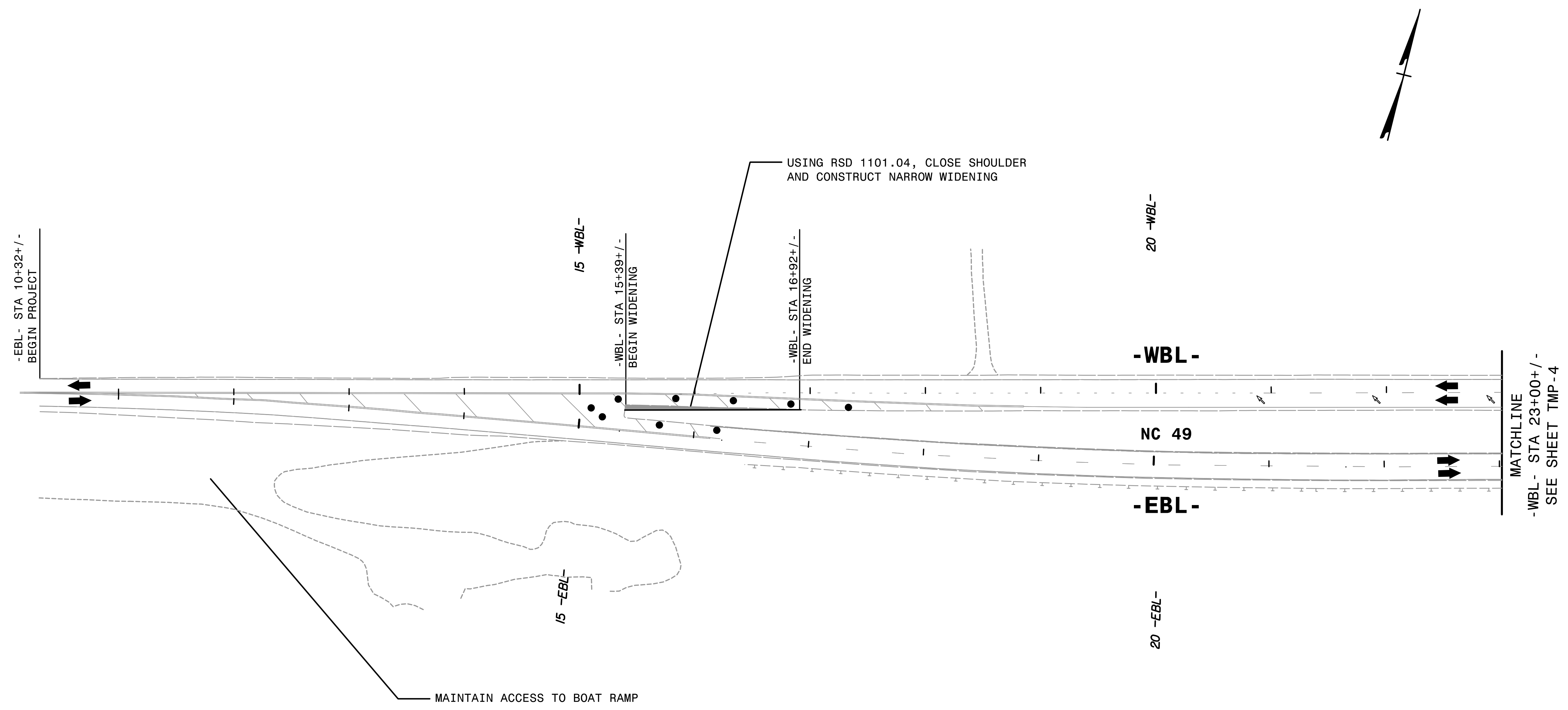
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TRANSPORTATION  
MANAGEMENT PLAN

**PHASING**



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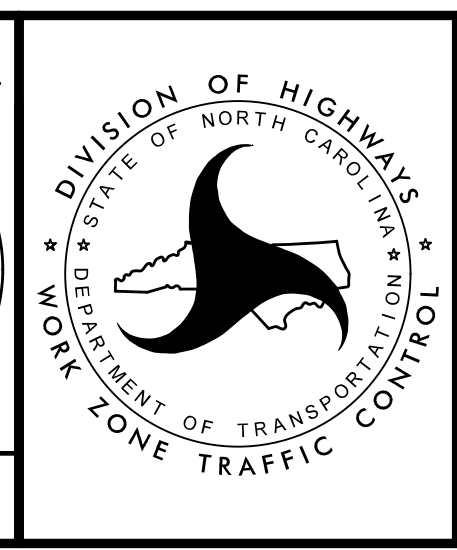
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 343 E. SIX FORKS ROAD, SUITE 200  
 RALEIGH, NORTH CAROLINA 27609  
 NC LICENSE NO: C-1554

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 DATE: 9/13/2021

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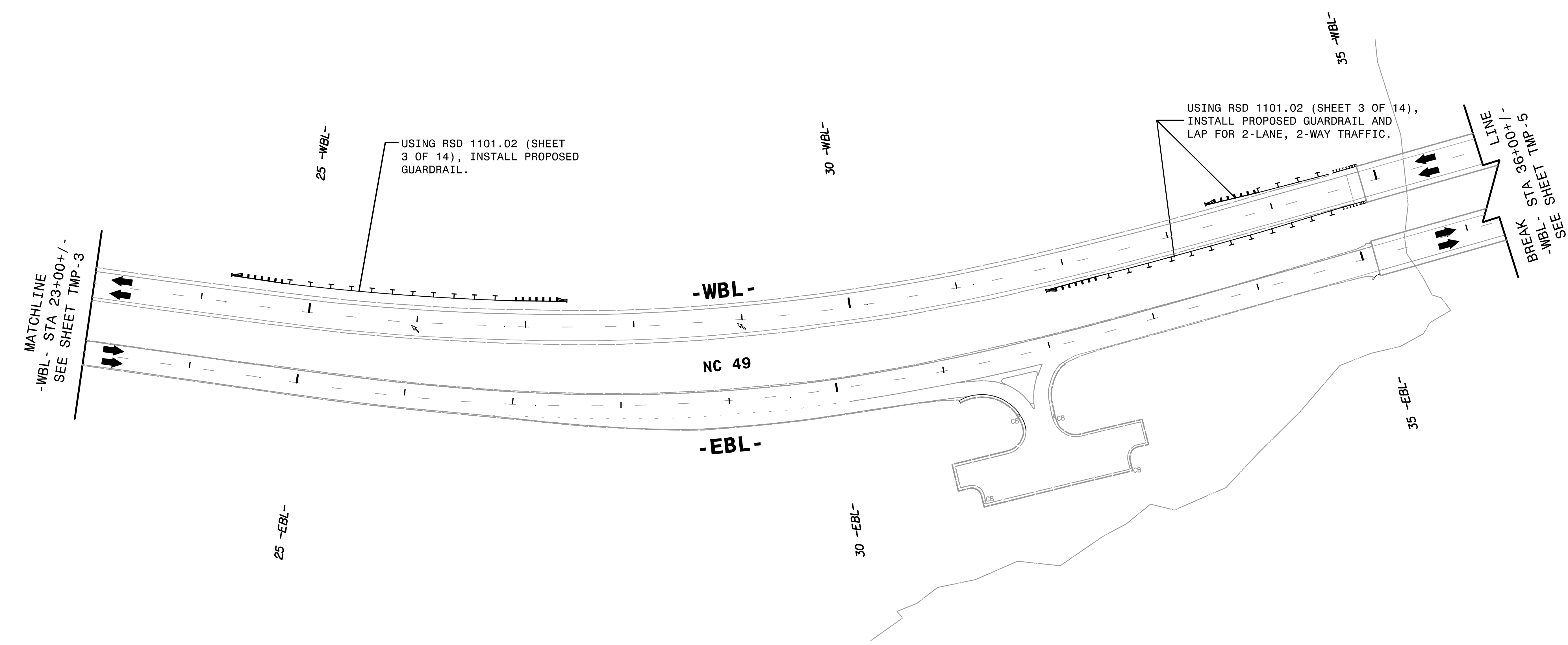
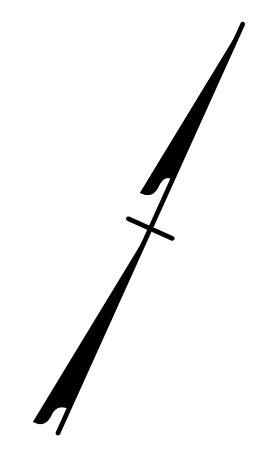
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 ENGINEER  
 HELEN SHYU

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TRANSPORTATION  
 MANAGEMENT PLAN

PHASE I  
 DETAIL



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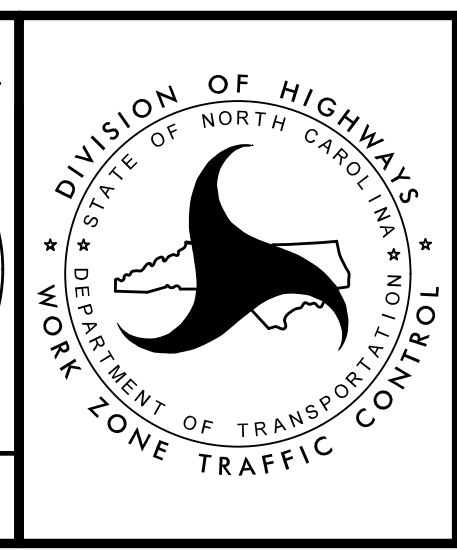
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APPROVED: *Helen Shyu*  
DocuSigned by:  
 Helen Shyu  
 DN: cn=Helen Shyu, o=HNTB, ou=HNTB, email=hshyu@hntb.com

DATE: 9/13/2021

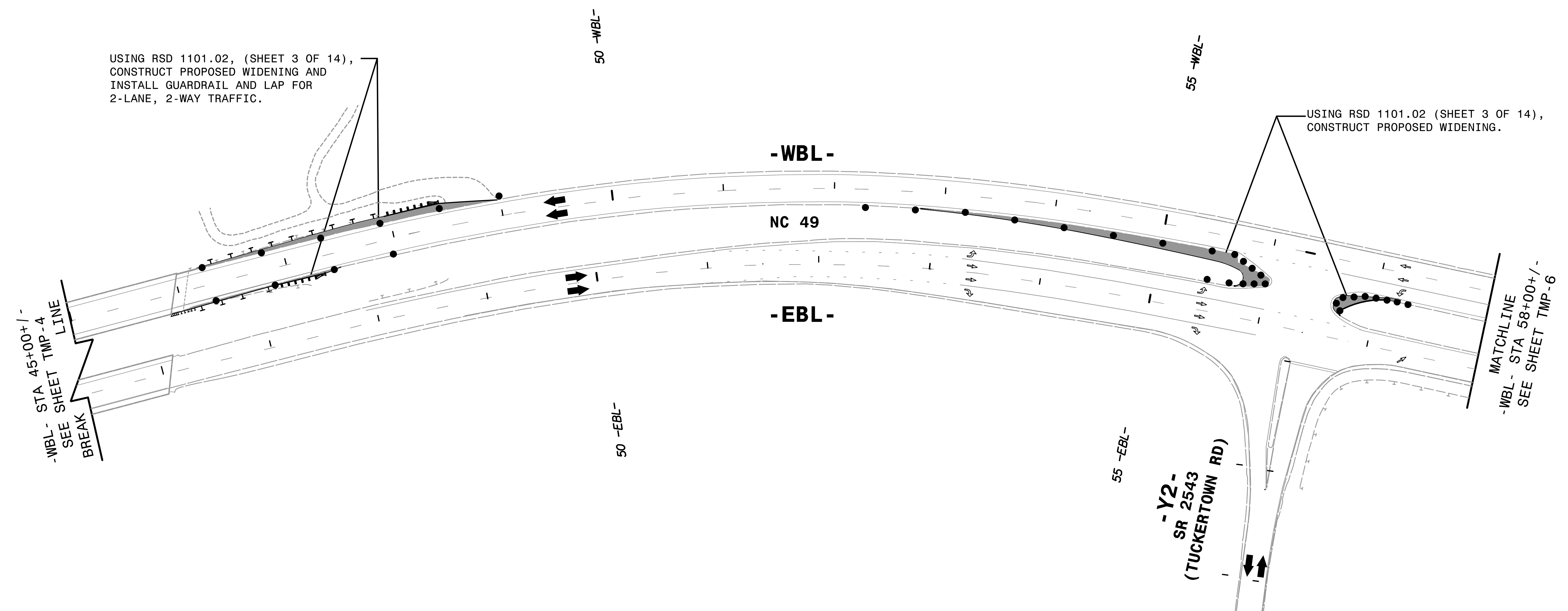
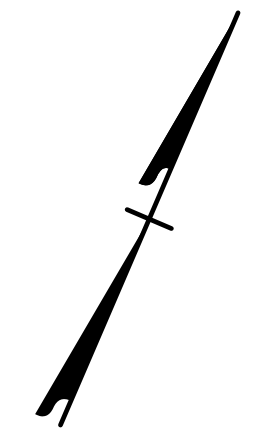
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TRANSPORTATION  
 MANAGEMENT PLAN

PHASE I  
 DETAIL



USING RSD 1101.02, (SHEET 3 OF 14),  
CONSTRUCT PROPOSED WIDENING AND  
INSTALL GUARDRAIL AND LAP FOR  
2-LANE, 2-WAY TRAFFIC.

USING RSD 1101.02 (SHEET 3 OF 14),  
CONSTRUCT PROPOSED WIDENING.

-WBL- STA 45+00+/-  
SEE SHEET TMP-4  
BREAK

MATCHLINE  
-WBL- STA 58+00+/-  
SEE SHEET TMP-6

-Y2-  
SR 2543  
(TUCKERTOWN RD)

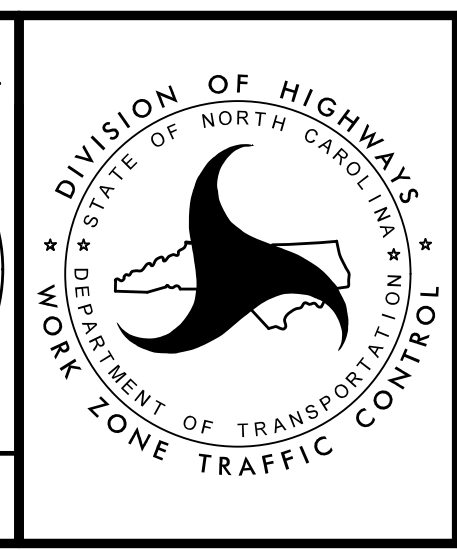
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HNTB

**HNTB**  
HNTB NORTH CAROLINA, P.C.  
343 E. SIX FORKS ROAD, SUITE 200  
RALEIGH, NORTH CAROLINA 27609  
NC LICENSE NO: C-1554

APPROVED: *Helen Shyu*  
DATE: 9/13/2021

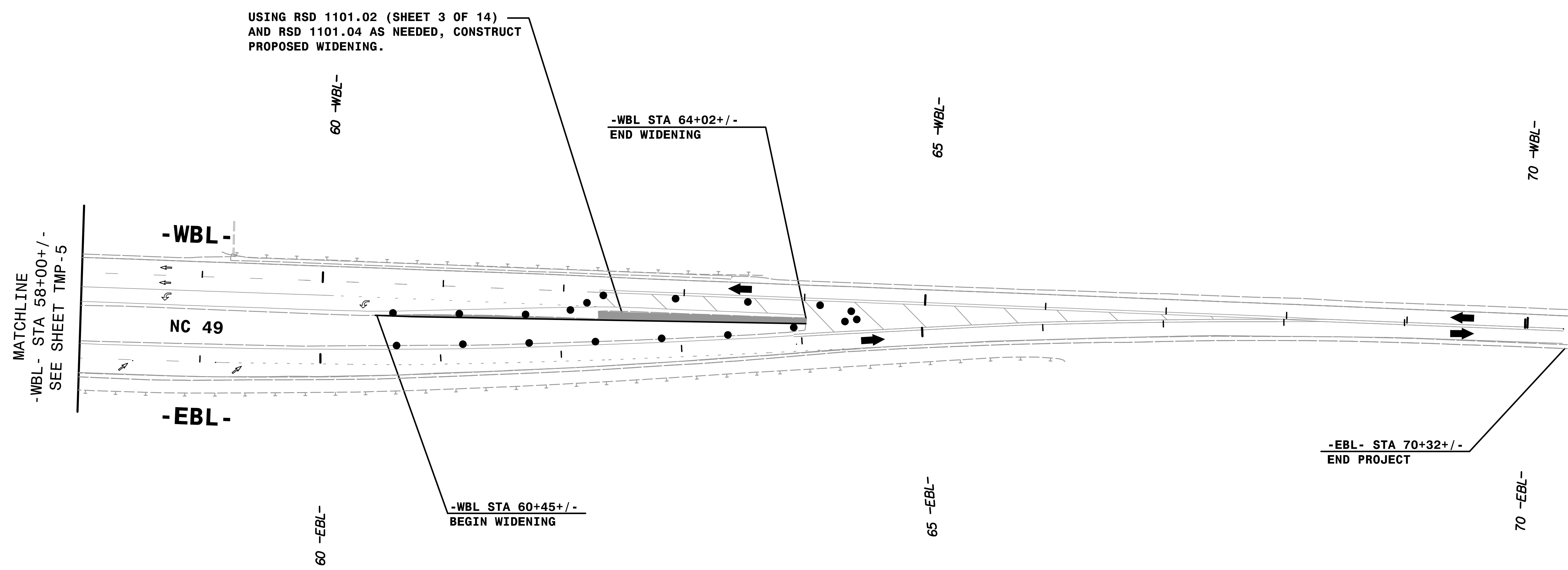
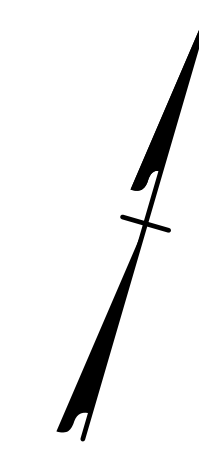
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TRANSPORTATION  
MANAGEMENT PLAN

PHASE I  
DETAIL



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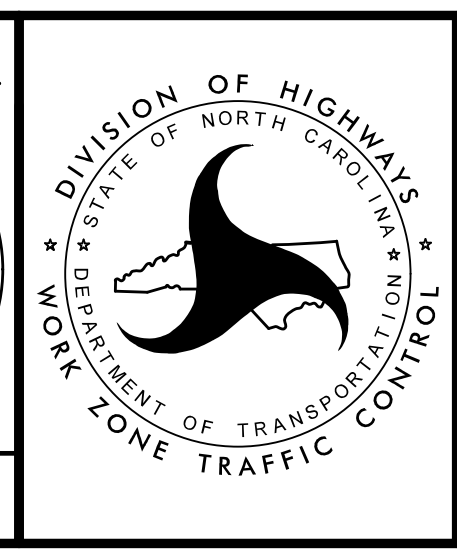


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DocuSigned by:  
Helen Shyu  
DN: cn=Helen Shyu, o=HNTB

DATE: 9/13/2021

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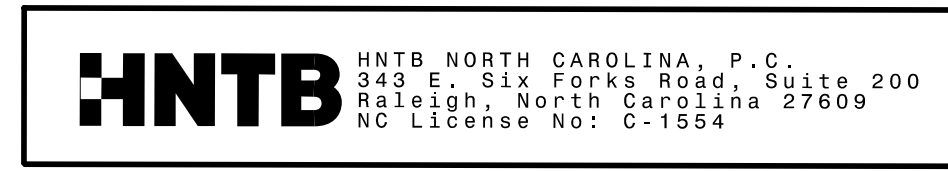
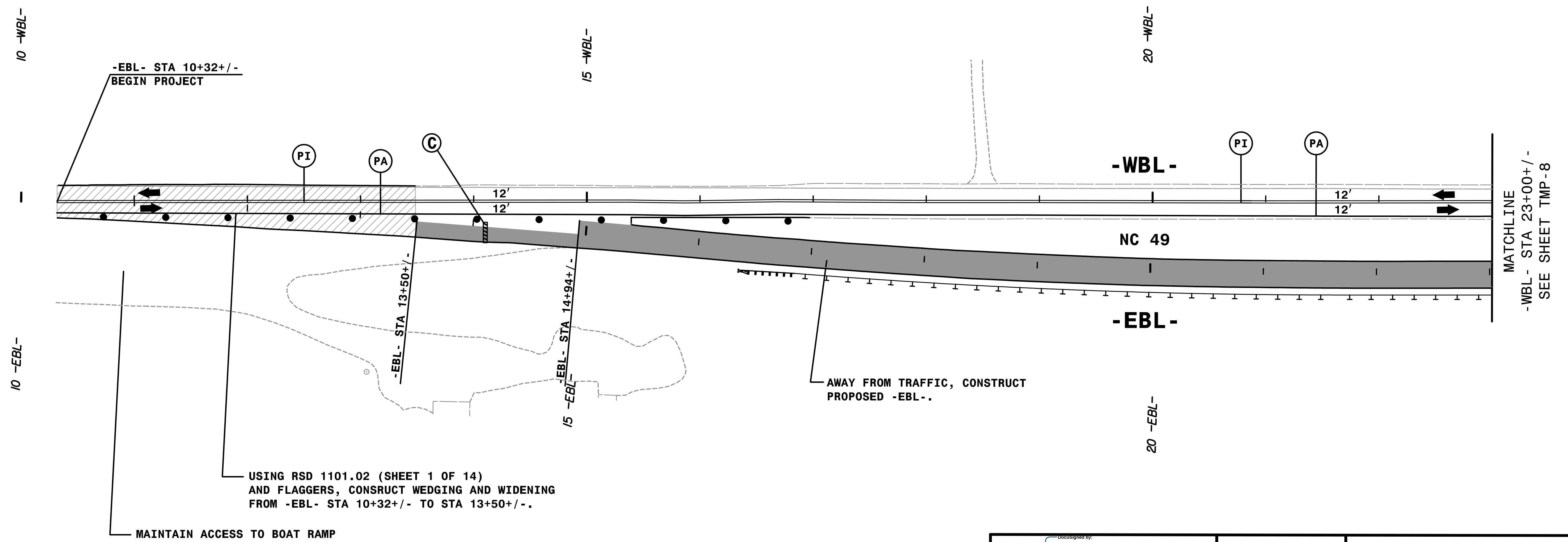
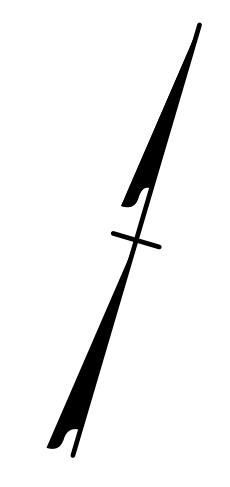
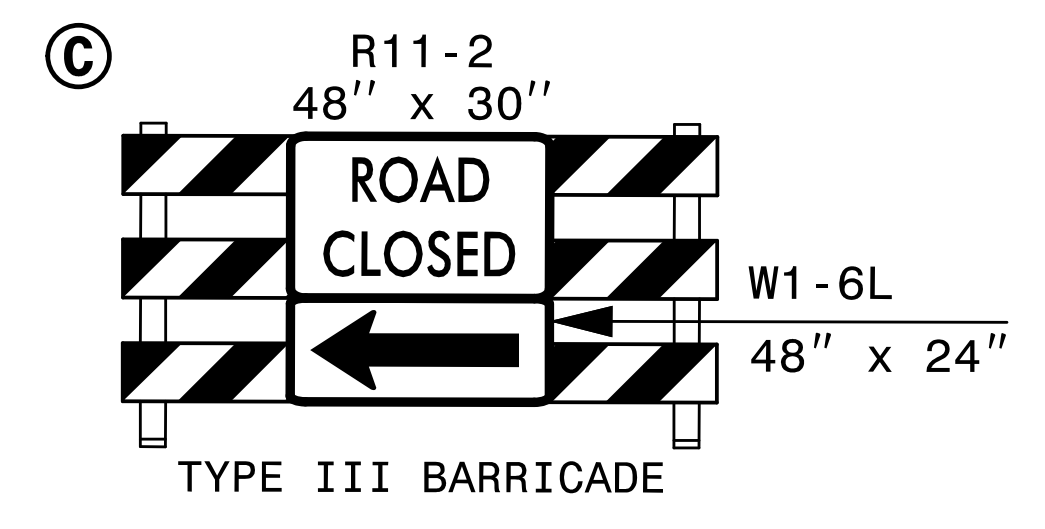
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TRANSPORTATION  
MANAGEMENT PLAN

PHASE I  
DETAIL

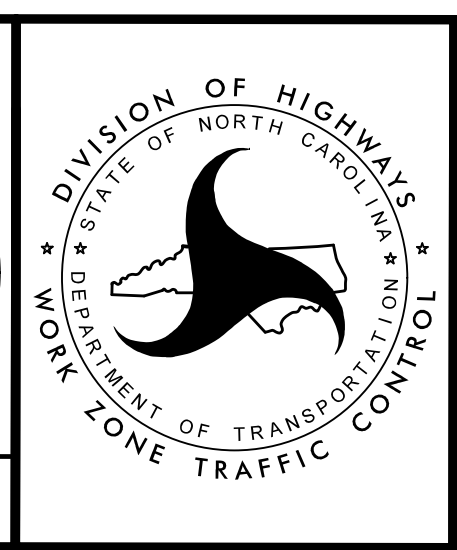




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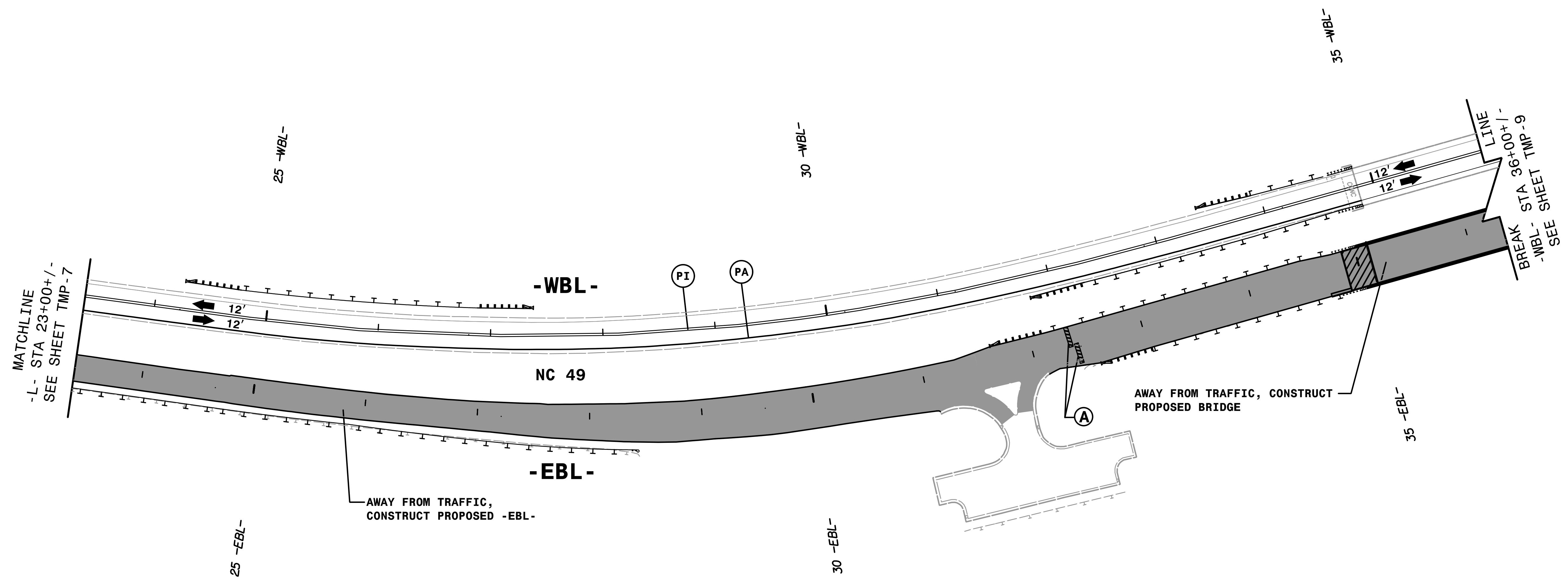
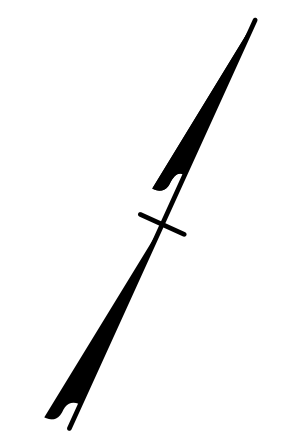
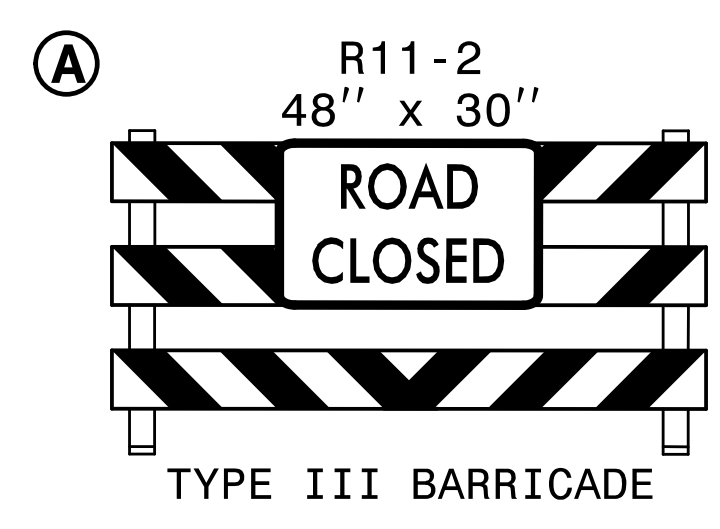
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TRANSPORTATION  
 MANAGEMENT PLAN

PHASE II  
 DETAIL



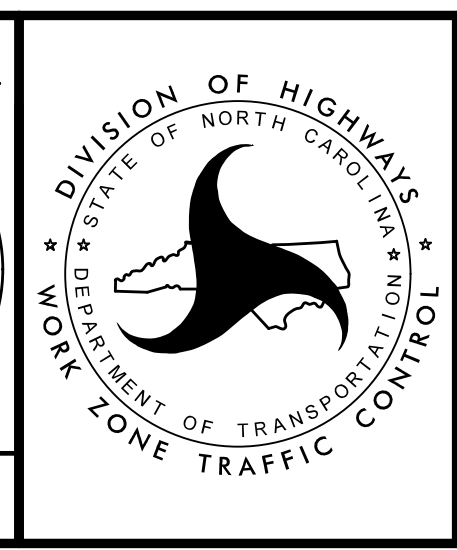
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**HNTB**  
 HNTB NORTH CAROLINA, P.C.  
 343 E. SIX FORKS ROAD, SUITE 200  
 RALEIGH, NORTH CAROLINA 27609  
 NC LICENSE NO: C-1554

APPROVED: *Helen Shyu*  
 DATE: 9/13/2021

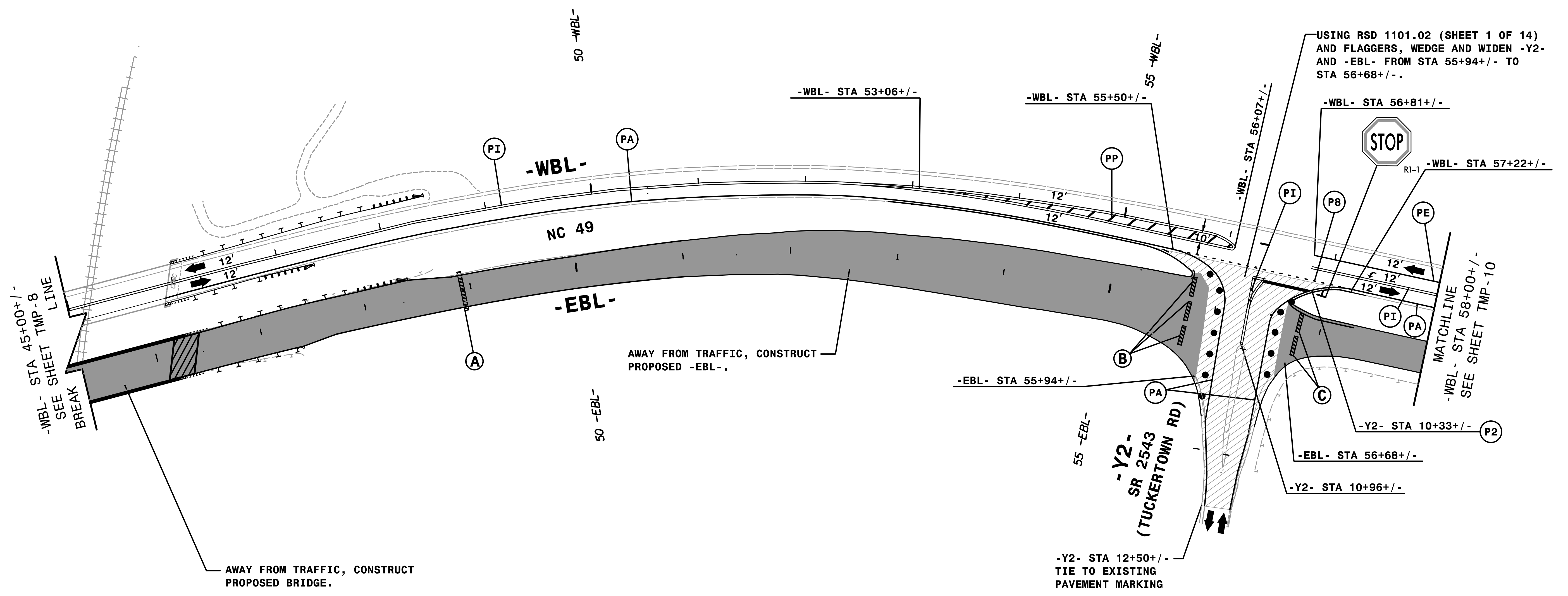
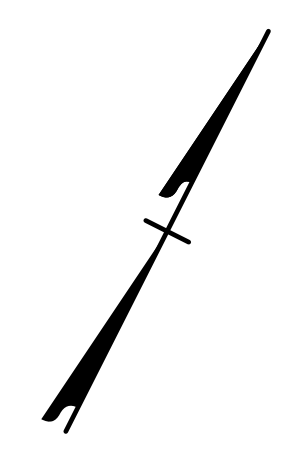
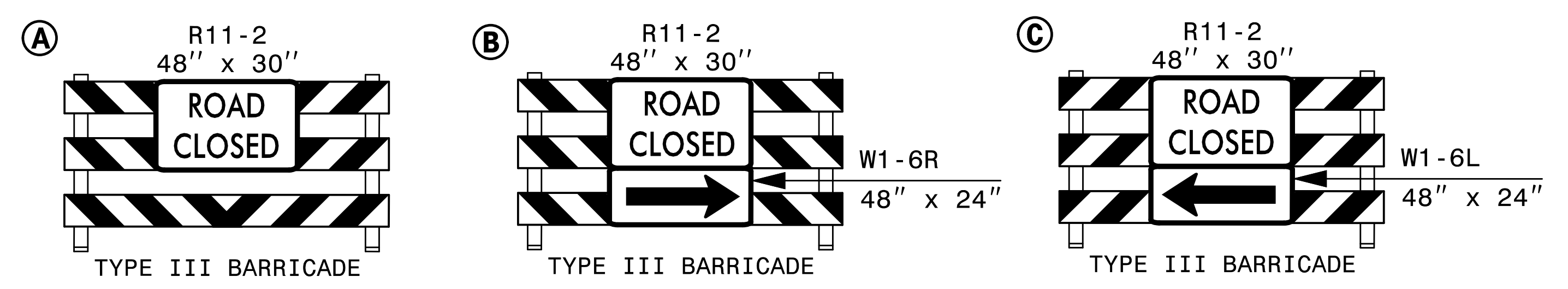
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TRANSPORTATION  
 MANAGEMENT PLAN

PHASE II  
 DETAIL



USING RSD 1101.02 (SHEET 1 OF 14) AND FLAGGERS, WEDGE AND WIDEN -Y2- AND -EBL- FROM STA 55+94+/- TO STA 56+68+/-.

-WBL- STA 45+00+/-  
SEE SHEET TMP-8  
BREAK

AWAY FROM TRAFFIC, CONSTRUCT PROPOSED BRIDGE.

AWAY FROM TRAFFIC, CONSTRUCT PROPOSED -EBL-.

-Y2- STA 12+50+/-  
TIE TO EXISTING PAVEMENT MARKING



MATCHLINE  
-WBL- STA 58+00+/-  
SEE SHEET TMP-10

LOCATE STOP BAR AT LEAST 10' FROM TRAVEL LANE AND AS DIRECTED BY THE ENGINEER.

3/3/2020  
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**HNTB**  
HNTB NORTH CAROLINA, P.C.  
343 E. Six Forks Road, Suite 200  
Raleigh, North Carolina 27609  
NC License No: C-1554

APPROVED: *Helen Shyu*  
DATE: 9/13/2021

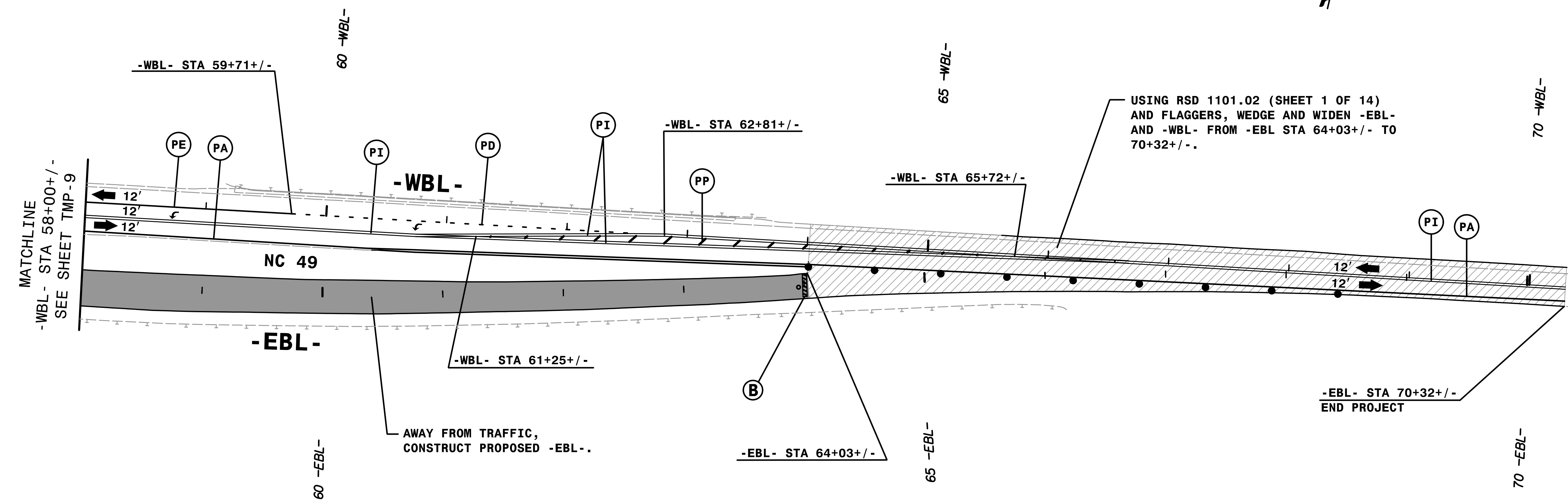
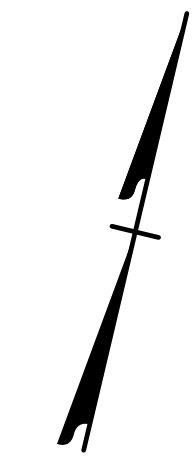
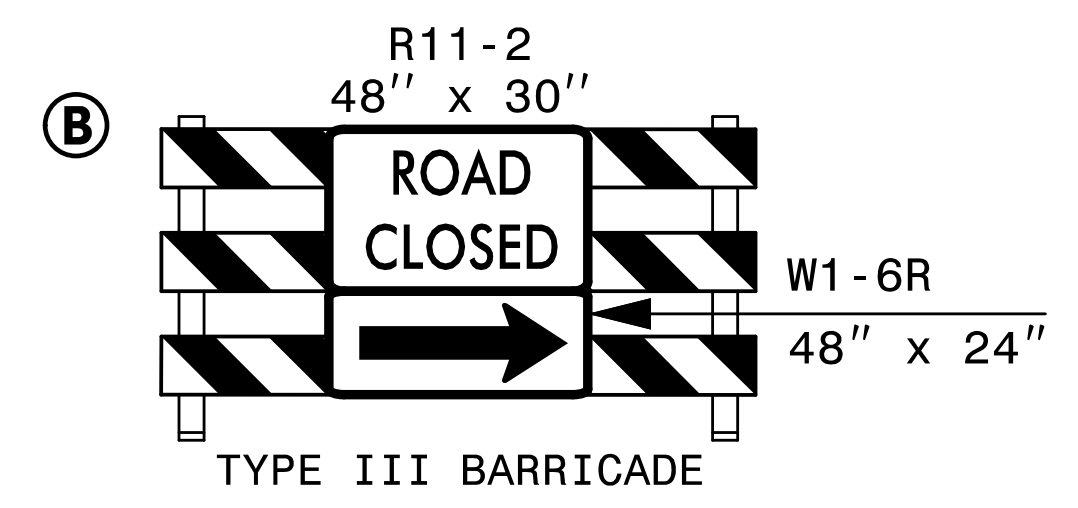
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TRANSPORTATION MANAGEMENT PLAN

PHASE II DETAIL



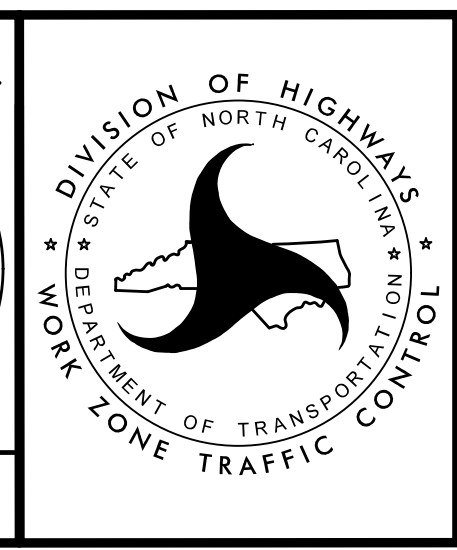
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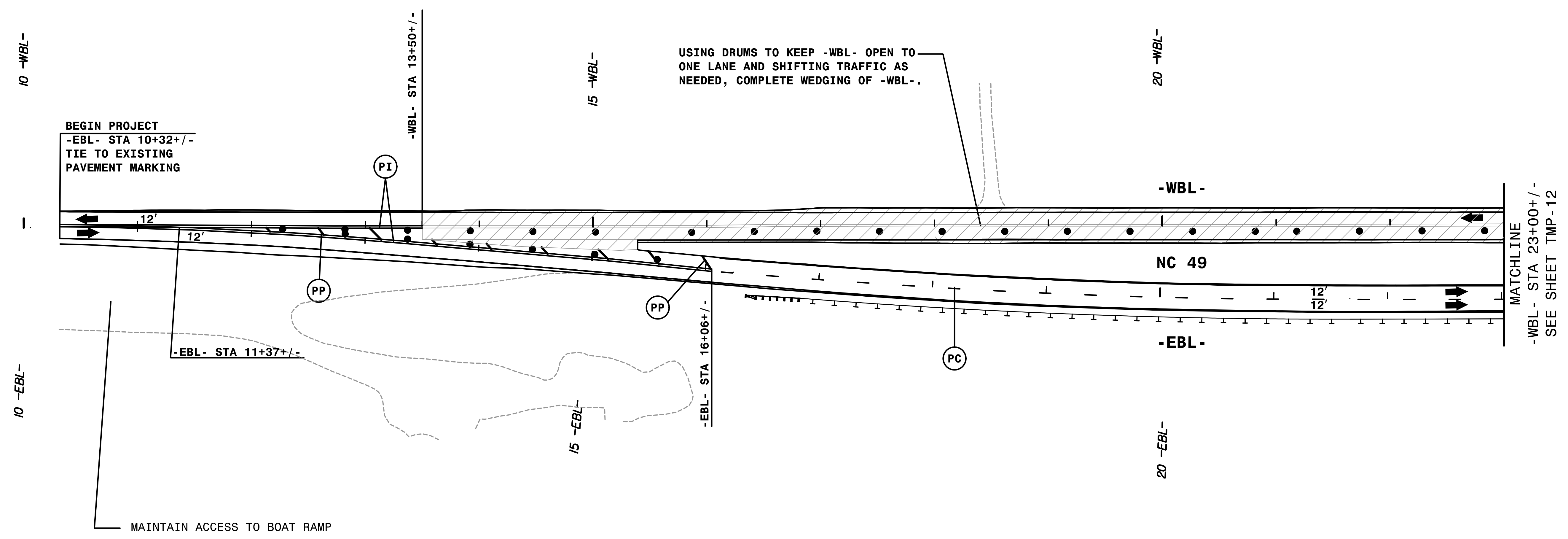
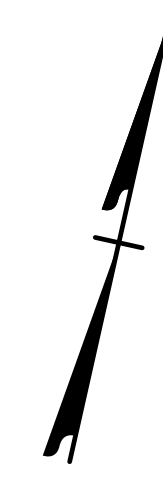
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TRANSPORTATION  
MANAGEMENT PLAN

PHASE II  
DETAIL



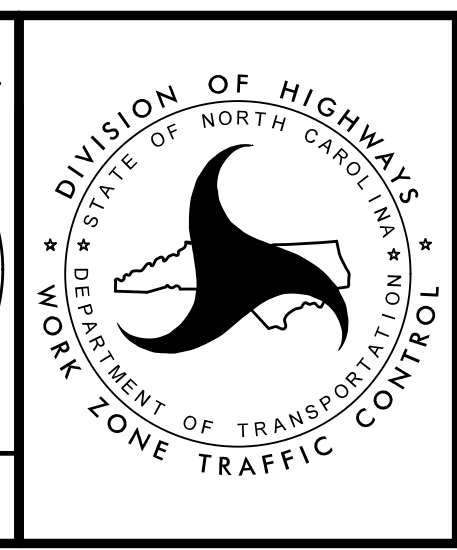
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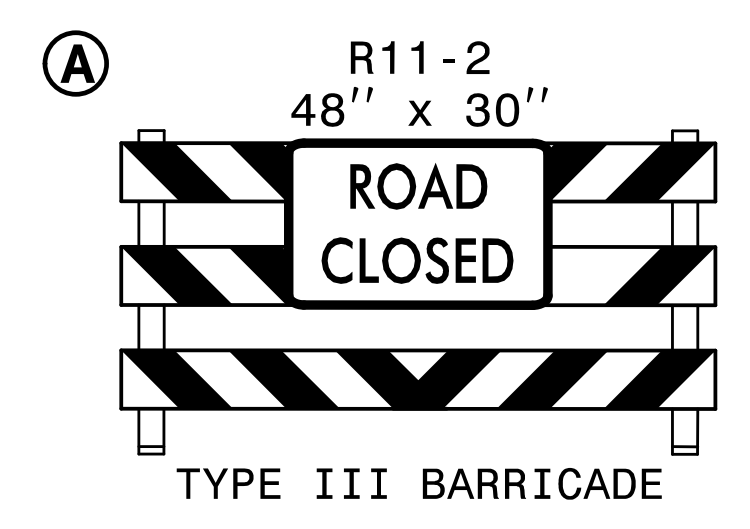
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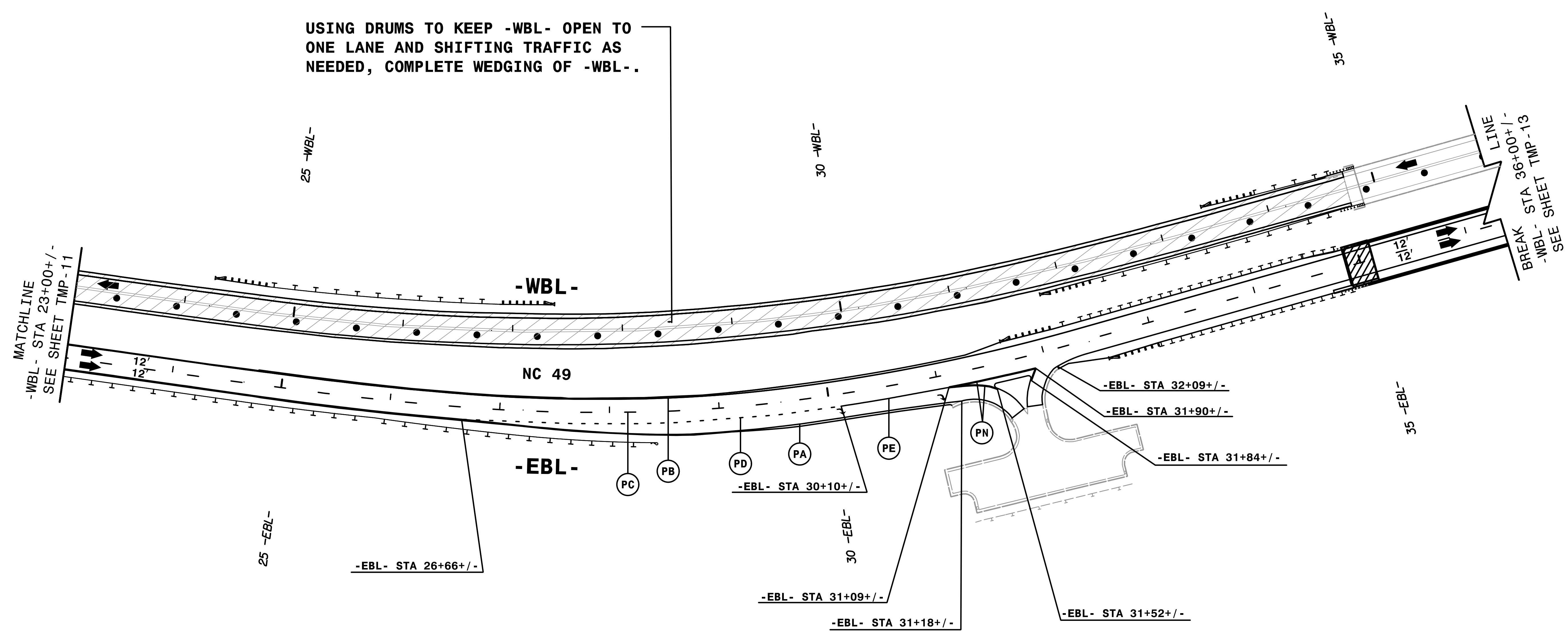


TRANSPORTATION  
MANAGEMENT PLAN

PHASE III  
DETAIL



USING DRUMS TO KEEP -WBL- OPEN TO ONE LANE AND SHIFTING TRAFFIC AS NEEDED, COMPLETE WEDGING OF -WBL-.



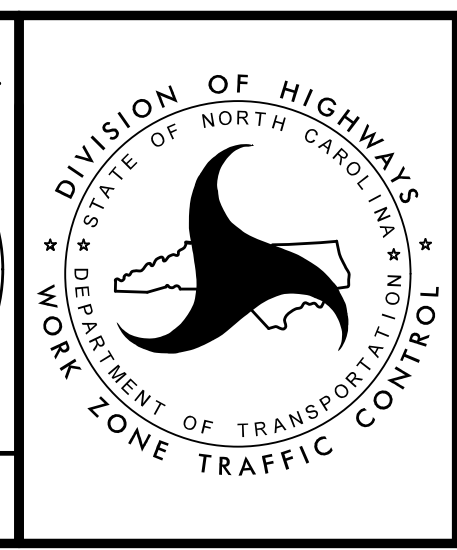
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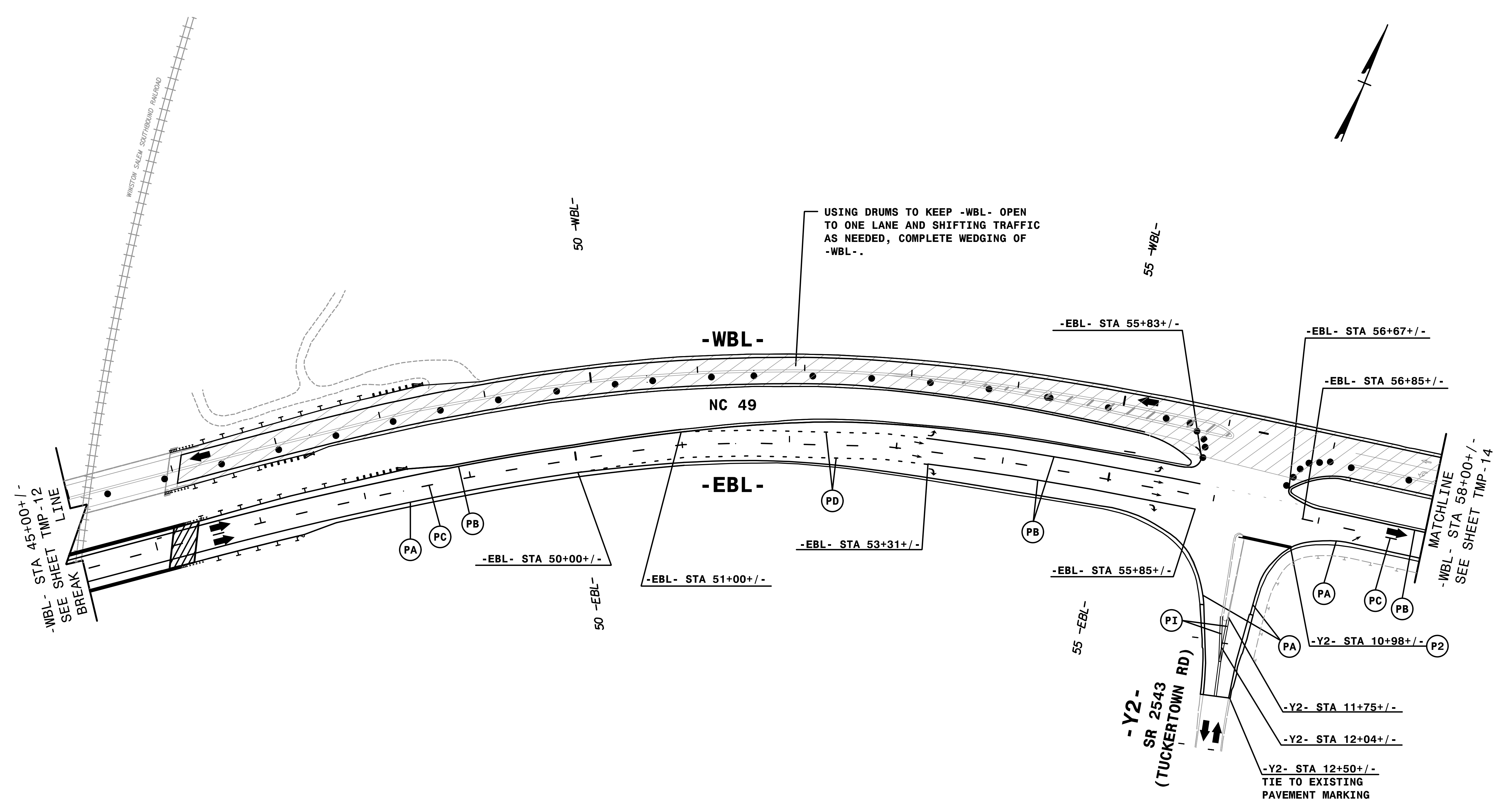
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 MANAGEMENT PLAN

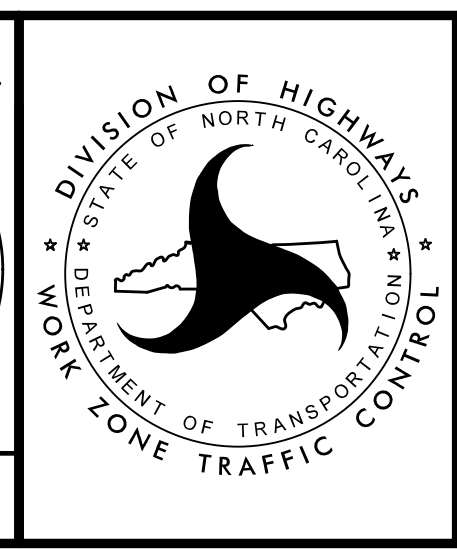
PHASE III  
 DETAIL



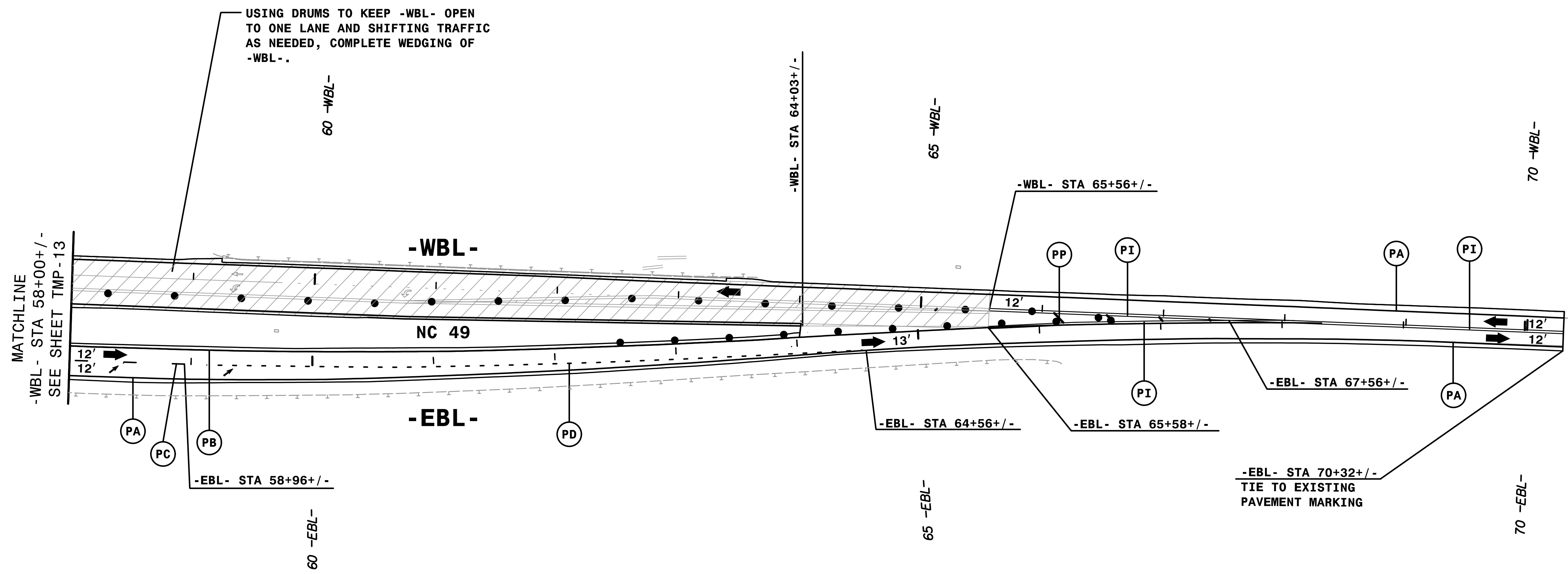
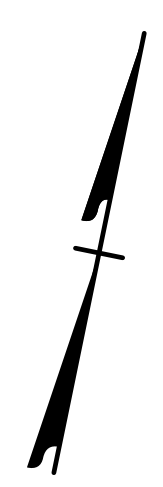
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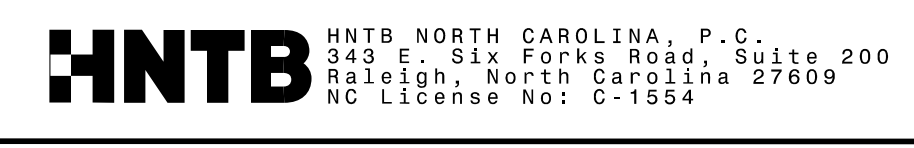
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TRANSPORTATION  
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 PHASE III  
 DETAIL



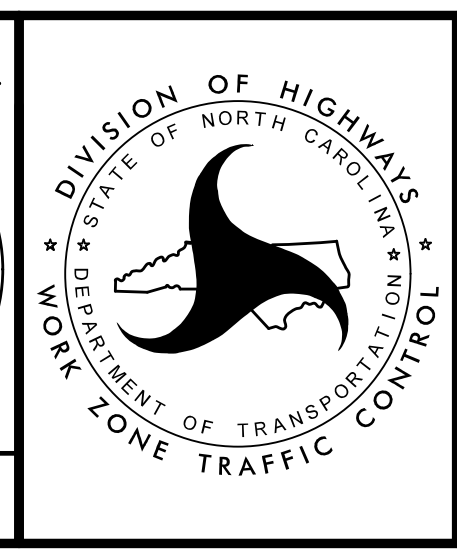
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TRANSPORTATION  
 MANAGEMENT PLAN

PHASE III  
 DETAIL