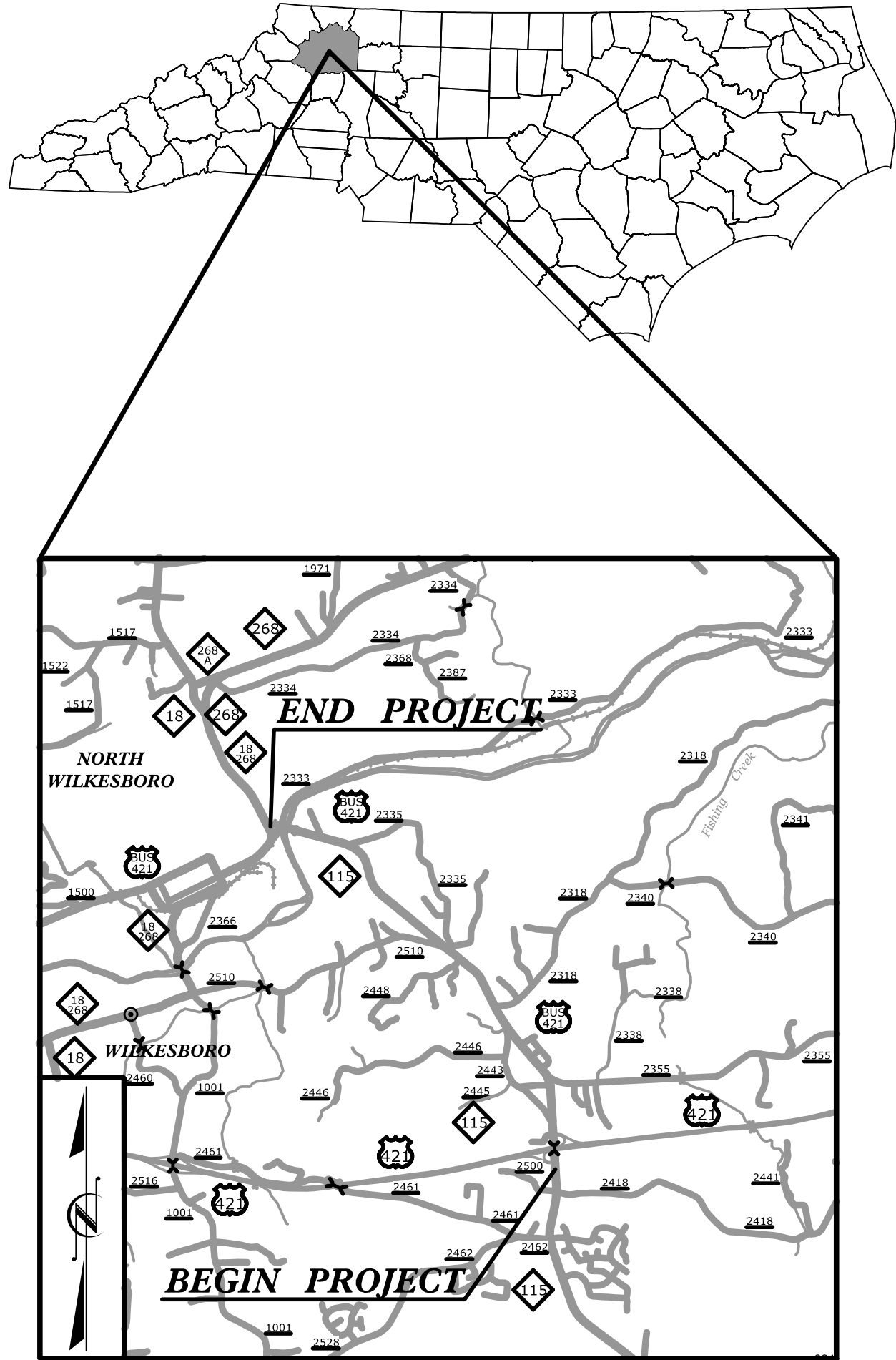


STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

TRANSPORTATION MANAGEMENT PLAN

WILKES COUNTY



LOCATION: NC 115 /US 421 BUSINESS (STATESVILLE ROAD) FROM US 421 TO NC 18 (2ND STREET) IN NORTH WILKESBORO.

INDEX OF SHEETS

SHEET NO.	TITLE
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 AND 1C	TRANSPORTATION OPERATIONS PLAN: (MANAGEMENT STRATEGIES, GENERAL NOTES, AND LOCAL NOTES)
TMP-2	PORTABLE CONCRETE BARRIER AT TEMPORARY SHORING LOCATIONS
TMP-2A	-L- (STATESVILLE ROAD) DETOUR FOR DRAINAGE (30" AT -L- STA 42+00+/-)
TMP-2B	-L- (STATESVILLE ROAD) DETOUR FOR DRAINAGE (48" AT -L- STA 46+00+/-)
TMP-2C	-Y4- (OLD US 421) DETOUR
TMP-2D	-Y13- (EASTOVER DRIVE) DETOUR
TMP-2E	-Y14- (HIGHLAND DRIVE) DETOUR
TMP-2F	-Y15- (ARMORY ROAD) DETOUR
TMP-2G	-Y6REV- (HUNTER ROAD) DETOUR
TMP-2H	SPECIAL SIGN DESIGNS
TMP-2I	-Y12- (CEDAR LANE) DETOUR
TMP-2J	TEMPORARY SHORING DATA
TMP-2K	-DRW1- (HOLLY MOUNTAIN FARM RD) DETOUR
TMP-2L AND 2M	PHASE I AND IA CUT SECTIONS
TMP-3 AND 3A	PHASING
TMP-4 THRU 4B	PHASE I STEP 2 DETAILS
TMP-5 THRU 5A	PHASE I STEP 3 DETAILS
TMP-6 THRU 6C	PHASE I STEP 4 DETAILS
TMP-7 THRU 7D	PHASE I STEP 5 DETAILS
TMP-8 THRU 26	PHASE I AND IA DETAILS
TMP-27 THRU 38	PHASE II DETAILS
TMP-39 THRU 42	PHASE III DETAILS

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UNLESS ALL SIGNATURES COMPLETED

HNTB

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4000 Center at North Hills
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APPROVED: 

DATE: 10/12/2026

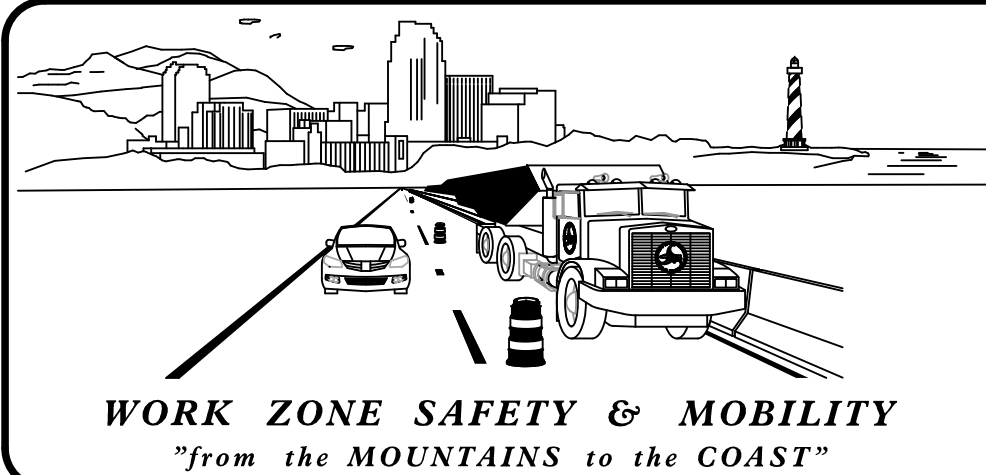
SEAL



TIP PROJECT:

SHEET NO.
TMP-1

R-5759



PLANS PREPARED BY: HNTB

H. SHYU, PE
TRAFFIC CONTROL PROJECT ENGINEER

G. RODRIGUEZ, EIT
TRAFFIC CONTROL DESIGNER

NCDOT CONTACTS:

R. SHAW, P.E.
PROJECT DEVELOPMENT ENGINEER



ROADWAY STANDARD DRAWINGS

THE FOLLOWING ROADWAY STANDARDS AS SHOWN IN "ROADWAY STANDARD DRAWINGS" - 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 ADVANCE WARNING SIGNS
1101.02	TEMPORARY LANE CLOSURES
1101.03	TEMPORARY ROAD CLOSURES
1101.04	TEMPORARY SHOULDER CLOSURES
1101.05	WORK ZONE VEHICLE ACCESSES
1101.06	WARNING SIGNS FOR BLASTING ZONES
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
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 - EXIT AND ENTRANCE RAMPs
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
1205.09	PAVEMENT MARKINGS - PAINTED ISLANDS
1205.10	PAVEMENT MARKINGS - SCHOOL AREAS
1205.12	PAVEMENT MARKINGS - BRIDGES
1205.13	PAVEMENT MARKINGS - LANE REDUCTIONS
1205.14	PAVEMENT MARKINGS - ROUNDABOUTS
1205.17	PAVEMENT MARKINGS - ADJACENT ON/OFF RAMPs
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
1264.01	OBJECT MARKERS - TYPES
1264.02	OBJECT MARKERS - INSTALLATION
1266.01	TUBULAR MARKERS

LEGEND

GENERAL

	DIRECTION OF TRAFFIC FLOW
	DIRECTION OF PEDESTRIAN TRAFFIC FLOW
	EXIST. PVMT.
	NORTH ARROW
	PROPOSED PVMT.
	WORK AREA
	GRAVEL/INCIDENTAL STONE
	REMOVAL
	WEDGE (USING LANE CLOSURES)
	TEMPORARY WEDGING/ TEMPORARY PAVEMENT
	ONGOING CONSTRUCTION

SIGNALS

	EXISTING
	PROPOSED
	TEMP

PAVEMENT MARKINGS

	EXISTING LINES
	TEMPORARY LINES

TRAFFIC CONTROL DEVICES

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

TEMPORARY SIGNING

	PORTABLE SIGN
	STATIONARY SIGN
	STATIONARY OR PORTABLE SIGN

PAVEMENT MARKING SYMBOLS

	PAVEMENT MARKING SYMBOLS
	EXISTING MARKING SYMBOLS

TEMPORARY PAVEMENT MARKING SCHEDULE

SYMBOL	DESCRIPTION
PAINT (4")	
P1	WHITE EDGELINE
P2	WHITE SOLID LANE LINE
P3	10 FT. WHITE SKIP
P4	3 FT. - 9 FT./SP WHITE MINISKIP
P5	2 FT. - 6 FT./SP WHITE MINISKIP
P10	YELLOW EDGELINE
P11	YELLOW SINGLE CENTER
P12	10FT. YELLOW SKIP
P13	YELLOW DOUBLE CENTER
P14	2 FT. - 6 FT./SP YELLOW MINISKIP
PAINT (6")	
P20	WHITE EDGELINE
P21	WHITE SOLID LANE LINE
P24	2 FT. - 6 FT./SP WHITE MINISKIP
P30	YELLOW EDGELINE
P33	YELLOW DOUBLE CENTER
PAINT (8")	
P40	WHITE GORELINE
P42	YELLOW DIAGONAL
P45	3 FT. - 3 FT./SP WHITE MINISKIP
PAINT (12")	
P51	WHITE DIAGONAL
P52	YELLOW DIAGONAL
PAINT (24")	
P61	WHITE STOP BAR
COLD APPLIED PLASTIC, TAPE (4")	
C1	WHITE EDGE LINE
C13	YELLOW DOUBLE CENTER
PAINT	
	LEFT TURN ARROW
	RIGHT TURN ARROW
	STRAIGHT ARROW
	COMBO. LEFT/STRAIGHT ARROW
	COMBO. RIGHT/STRAIGHT ARROW
	U-TURN ARROW
ONLY	ALPHANUMERIC CHARACTER
	24" YIELD LINE TRIANGLE
	FISH-HOOK W/CIRCLE LEFT/STRAIGHT ARROW
	FISH-HOOK W/CIRCLE LEFT/RIGHT/STRAIGHT ARROW
	FISH-HOOK W/CIRCLE RIGHT/STRAIGHT ARROW
	FISH-HOOK W/CIRCLE LEFT/RIGHT ARROW

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

MANAGEMENT STRATEGIES

PROJ. REFERENCE NO.	SHEET NO.
R-5759	TMP-1B

TRAFFIC CONTROL STRATEGIES

- CONSTRUCTION STAGING
- ROAD CLOSURES
- OFF-SITE DETOURS
- LANE CLOSURES, WIDTH REDUCTIONS AND SHIFTS
- HOURLY PROHIBITION RESTRICTIONS FOR LANE CLOSURES, SHOULDER CLOSURES, AND TEMPORARY ROAD CLOSURES
- WORK HOUR RESTRICTIONS FOR PEAK HOUR TRAFFIC
- NIGHT WORK
- WEEKEND WORK

TRAFFIC CONTROL DEVICES

- CHANNELIZING DEVICES
- BARRICADES
- TEMPORARY SIGNS
- TEMPORARY LONGITUDINAL BARRIERS
- WORK ZONE ATTENUATORS
- ARROW PANELS
- CHANGEABLE MESSAGE SIGNS
- TEMPORARY TRAFFIC SIGNALS
- FLAGGERS
- LAW ENFORCEMENT OFFICERS
- TEMPORARY PAVEMENT MARKINGS

PROJECT COORDINATION, CONTRACTING AND INNOVATIVE CONSTRUCTION STRATEGIES

- PROJECT COODINATION

CORRIDOR / NETWORK MANAGEMENT STRATEGIES

- TRAFFIC SIGNAL TIMING / COORDINATION REVISIONS
- TEMPORARY TRAFFIC SIGNALS
- COORDINATION WITH ADJACENT CONSTRUCTION SITES

WORK ZONE SAFETY MANAGEMENT STRATEGIES

- TEMPORARY TRAFFIC SIGNALS
- TEMPORARY LOGITUDINAL BARRIERS
- WORK ZONE ATTENUATORS

TRAFFIC / INCIDENT MANAGEMENT AND ENFORCEMENT STRATEGIES

- COOPERATIVE LAW ENFORCEMENT
- LOCAL DETOUR ROUTES

PUBLIC AWARENESS STRATEGIES

- PRESS RELEASES / MEDIA ALERTS
- COORDINATION WITH MEDIA / EMERGENCY SERVICES / SCHOOLS / BUSINESSES

MOTORISTS INFORMATION STRATEGIES

- CHANGEABLE MESSAGE SIGNS
- TEMPORARY MOTORISTS INFORMATION SIGNS

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. MODIFICATION MAY INCLUDE: MOVING, SUPPLEMENTING, COVERING, OR REMOVAL OF DEVICES AS DIRECTED BY THE ENGINEER.

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

TIME RESTRICTIONS

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

ROAD NAME	DAY AND TIME RESTRICTIONS
-L- (NC 115)	MONDAY THRU FRIDAY 7:00 A.M. - 9:00 A.M. AND 3:00 P.M. - 6:00 P.M. SATURDAY AND SUNDAY 12:00 P.M. - 4:00 P.M.
US 421 AND RAMPS -RPD-/-LPD- AND -RPB-/-LPB-	MONDAY THRU SUNDAY 6:00 A.M. - 9:00 P.M.
ANY OTHER ROAD	MONDAY THRU FRIDAY 7:00 A.M. - 9:00 A.M. AND 3:00 P.M. - 6:00 P.M.

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

ROAD NAME	ANY ROAD
HOLIDAYS	
1.	FOR ANY UNEXPECTED OCCURRENCE THAT CREATES UNUSUALLY HIGH TRAFFIC VOLUMES, AS DIRECTED BY THE ENGINEER.
2.	FOR NEW YEAR'S, BETWEEN THE HOURS OF 6:00 A.M. DECEMBER 31st TO 9:00 P.M. JANUARY 2ND. IF NEW YEAR'S DAY IS ON A FRIDAY, SATURDAY, SUNDAY, OR MONDAY THEN UNTIL 9:00 P.M. THE FOLLOWING TUESDAY.
3.	FOR EASTER, BETWEEN THE HOURS OF 6:00 A.M. THURSDAY AND 9:00 P.M. MONDAY.
4.	FOR MEMORIAL DAY, BETWEEN THE HOURS OF 6:00 A.M. FRIDAY TO 9:00 P.M. TUESDAY.
5.	FOR INDEPENDENCE DAY, BETWEEN THE HOURS OF 6:00 A.M. THE DAY BEFORE INDEPENDENCE DAY AND 9:00 P.M. THE DAY AFTER INDEPENDENCE DAY. IF INDEPENDENCE DAY IS ON A FRIDAY, SATURDAY, SUNDAY OR MONDAY THEN BETWEEN THE HOURS OF 6:00 A.M. THE THURSDAY BEFORE INDEPENDENCE DAY AND 9:00 P.M. THE TUESDAY AFTER INDEPENDENCE DAY.
6.	FOR LABOR DAY, BETWEEN THE HOURS OF 6:00 A.M. FRIDAY AND 9:00 P.M. TUESDAY.
7.	FOR THANKSGIVING DAY, BETWEEN THE HOURS OF 6:00 A.M. TUESDAY TO 9:00 P.M. MONDAY.
8.	FOR CHRISTMAS, BETWEEN THE HOURS OF 6:00 A.M. THE FRIDAY BEFORE THE WEEK OF CHRISTMAS DAY AND 9:00 P.M. THE FOLLOWING TUESDAY AFTER THE WEEK OF CHRISTMAS.
9.	FOR MERLEFEST, BETWEEN THE HOURS OF 6:00 A.M. ON THE TUESDAY BEFORE THE EVENT TO 6:00 A.M. THE DAY AFTER THE FESTIVAL ENDS TUESDAY AFTER THE WEEK OF CHRISTMAS.
10.	FOR BRUSHY MOUNTAIN APPLE FESTIVAL, BETWEEN THE HOURS OF 9:00 P.M. THE DAY BEFORE THE FESTIVAL TO 6:00 A.M. THE DAY AFTER THE FESTIVAL
11.	FOR ANY EVENT, OCCURING AT NORTH WILKESBORO SPEEDWAY, BETWEEN THE HOURS OF 6:00 A.M. THE DAY BEFORE THE START OF THE EVENT AND 9:00 P.M. THE FOLLOWING DAY AFTER THE END OF THE EVENT

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.

D) DO NOT STOP TRAFFIC AS FOLLOWS:

ROAD NAME	DAY AND TIME RESTRICTIONS	DURATION AND OPERATION
-L- (NC 115)	MONDAY THRU SUNDAY 3:00 P.M. - 9:00 A.M.	20 MINUTES FOR ROCK BLASTING
	MONDAY THRU SUNDAY 5:00 A.M. TO 12:00 A.M. (MIDNIGHT)	30 MINUTES FOR TRAFFIC SHIFTS

LANE AND SHOULDER CLOSURE REQUIREMENTS

- E) 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.
- F) 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.
- G) WHEN PERSONNEL AND/OR EQUIPMENT ARE WORKING WITHIN 5 FT OF AN OPEN TRAVEL LANE ON AN UNDIVIDED FACILITY, 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 10 FT OF AN OPEN TRAVEL LANE ON A DIVIDED FACILITY, CLOSE THE NEAREST OPEN TRAVEL LANE USING ROADWAY TANDARD DRAWING NO. 1101.02 UNLESS THE WORK AREA IS PROTECTED BY BARRIER OR GUARDRAIL.
- H) 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.
- I) 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.
- J) DO NOT INSTALL MORE THAN 2500 FT OF LANE CLOSURE ON -L-(NC 115) MEASURED FROM THE BEGINNING OF THE MERGE TAPER TO THE END OF THE LANE CLOSURE.
- K) DO NOT INSTALL MORE THAN 2 SIMULTANEOUS LANE CLOSURES IN ANY ONE DIRECTION ON -L-(NC 115).
- L) PROVIDE A MINIMUM OF ONE MILE BETWEEN LANE CLOSURES, MEASURED FROM THE END OF ONE CLOSURE TO THE FIRST SIGN OF THE NEXT LANE CLOSURE.

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 LANE 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 ONE MILE THROUGHOUT THE UNEVEN AREA.

TRAFFIC PATTERN ALTERATIONS

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

GENERAL NOTES (CONTINUED)

SIGNING

- P) 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.
- Q) 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.
- R) 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.
- S) ENSURE ALL NECESSARY SIGNING IS IN PLACE PRIOR TO ALTERING ANY TRAFFIC PATTERN.
- T) 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.
- 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

- W) USE NON-GATING CRASH CUSHIONS AS REQUIRED IN THE TMP.

TRAFFIC CONTROL DEVICES

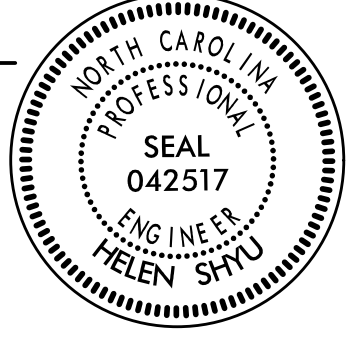
- X) WHEN LANE CLOSURES ARE NOT IN EFFECT SPACE CHANNELIZING DEVICES IN WORK AREAS NO GREATER IN FEET THAN TWICE THE POSTED SPEED LIMIT (MPH) EXCEPT, 10 FT ON-CENTER IN RADII, AND 3 FT OFF THE EDGE OF AN OPEN TRAVELWAY. REFER TO STANDARD SPECIFICATIONS FOR ROADS AND STRUCTURES SECTIONS 1130 (DRUMS), 1135 (CONES) AND 1180 (SKINNY DRUMS) FOR ADDITIONAL REQUIREMENTS.
- Y) PLACE TYPE III BARRICADES, WITH "ROAD CLOSED" SIGN R11-2 ATTACHED, OF SUFFICIENT LENGTH TO CLOSE ENTIRE ROADWAY.
- Z) 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

- AA) INSTALL TEMPORARY PAVEMENT MARKINGS AND TEMPORARY PAVEMENT MARKERS ON INTERIM LAYERS OF PAVEMENT AS FOLLOWS:
- | ROAD NAME | MARKING | MARKER |
|-----------|--|------------------|
| ANY ROADS | PAINT | TEMPORARY RAISED |
| | TEMPORARY TAPE ON BRIDGE (USE APPROVED METHOD FOR REMOVAL) | TEMPORARY RAISED |
- AB) 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.
- AC) TIE PROPOSED PAVEMENT MARKING LINES TO EXISTING PAVEMENT MARKING LINES.
- AD) REMOVE/REPLACE ANY CONFLICTING/DAMAGED PAVEMENT MARKINGS AND MARKERS BY THE END OF EACH DAY'S OPERATION.
- AE) TRACE THE PROPOSED MONOLITHIC ISLAND LOCATIONS WITH PROPER COLOR PAVEMENT MARKINGS PRIOR TO INSTALLATION. PLACE DRUMS TO DELINEATE ANY PROPOSED MONOLITHIC ISLANDS BEFORE INSTALLATION.

MISCELLANEOUS

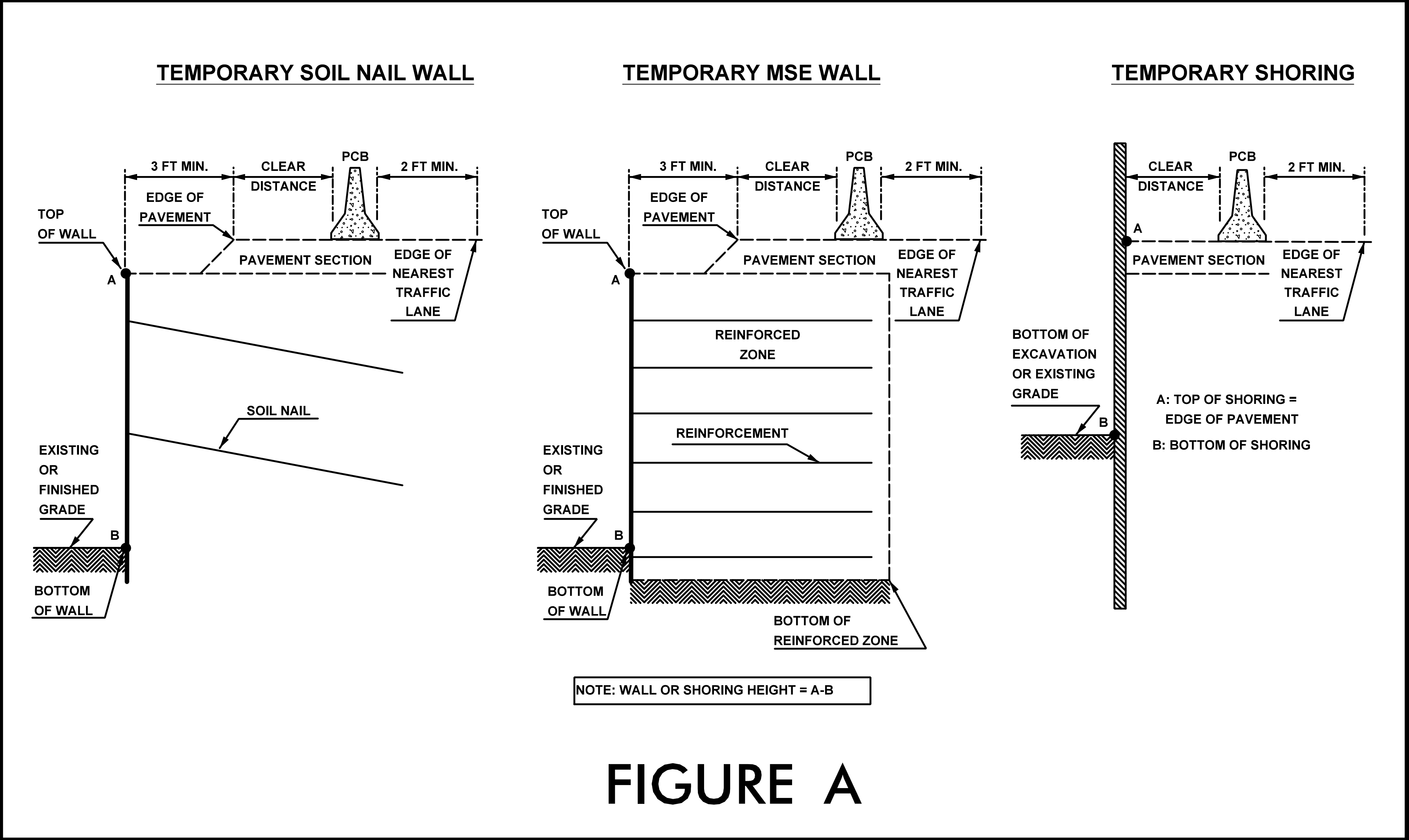
- AF) LAW ENFORCEMENT SHALL BE USED TO MAINTAIN TRAFFIC THROUGH THE WORK AREA AND/OR INTERSECTIONS AS DIRECTED BY THE ENGINEER.
- AG) IN THE EVENT A TIE-IN CANNOT BE MADE IN ONE DAY'S TIME, BRING THE TIE-IN AREA TO AN APPROPRIATE ROADWAY, ELEVATION AS DETERMINED BY THE ENGINEER. PLACE BLACK ON ORANGE "LOOSE GRAVEL" SIGNS (W8-7) AND BLACK ON ORANGE "PAVEMENT ENDS" SIGNS (W8-3) 350 FT AND 700 FT RESPECTIVELY IN ADVANCE OF THE UNEVEN AREAS. USE DRUMS TO DELINEATE THE EDGE OF ROADWAY ALONG UNPAVED AREAS.
- AH) ALL CURB RAMP LOCATIONS SHALL BE DERIVED FROM STATIONING SHOWN ON PAVEMENT MARKING PLANS OR AS DIRECTED BY THE ENGINEER IN COORDINATION WITH THE SIGNING AND DELINEATION UNIT.
- AI) CONTRACTOR SHALL MAINTAIN SIDEWALK ACCESS AT ALL TIMES AS STATED IN THE PHASING. CONTRACTOR SHALL BE RESPONSIBLE TO PROVIDE TEMPORARY SIDEWALKS (CONCRETE, ASPHALT, OR OTHER SUITABLE MATERIAL AS APPROVED BY THE ENGINEER) AT ALL LOCATIONS WHERE THE OPEN PEDESTRIAN TRAVELWAY HAS BEEN REMOVED FOR CONSTRUCTION OPERATIONS (UTILITIES, DRAINAGE, ETC.).
- AJ) COORDINATE WITH EMS AND BROADWAY VFD TO MINIMIZE IMPACTS AND DELAYS DURING CONSTRUCTION.
- AK) COORDINATE WITH WILKES COUNTY PUBLIC SCHOOL, C.C. WRIGHT ELEMENTARY SCHOOL, AND ABRROTES Y NOVEDADES OLEA TO MINIMIZE IMPACTS TO SCHOOL TRANSPORTATION DURING CONSTRUCTION.
- AL) ADA COMPLIANT PEDESTRIAN TRAFFIC CONTROL DEVICES SHALL BE USED TO EITHER CLOSE, REDIRECT, DIVERT, OR DETOUR PEDESTRIAN TRAFFIC. SEE SPECIAL PROVISIONS FOR ADDITIONAL DETAILS.

APPROVED:	DocuSigned by: <i>Helen Shyu</i> 0C1602FA8D8E14E2
DATE:	10/12/2026
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TRANSPORTATION
MANAGEMENT PLAN

MANAGEMENT
STRATEGIES &
GENERAL NOTES



- NOTES
- 1- REFER TO THE TRAFFIC CONTROL PLANS FOR TEMPORARY SHORING LOCATIONS AND NOTES.

2- REFER TO THE "TEMPORARY SHORING" STANDARD PROVISION FOR INFORMATION ABOUT TEMPORARY SHORING AND PORTABLE CONCRETE BARRIER (PCB).

3- PCB IS REQUIRED IF TEMPORARY SHORING/WALL IS LOCATED WITHIN THE CLEAR ZONE IN ACCORDANCE WITH THE AASHTO ROADSIDE DESIGN GUIDE. DO NOT PLACE BARRIER DIRECTLY ON ANY SURFACE OTHER THAN ASPHALT OR CONCRETE. (CONTACT NCDOT PAVEMENT MANAGEMENT FOR APPLICABLE PAVEMENT DESIGN).

4- BASED ON THE CLEAR DISTANCE, OFFSET, DESIGN SPEED AND PAVEMENT TYPE, CHOOSE AN UNANCHORED OR ANCHORED PCB FROM THE TABLE SHOWN IN FIGURE B. CLEAR DISTANCE IS DEFINED AS SHOWN IN FIGURE A AND OFFSET IS DEFINED AS SHOWN IN FIGURE B.

5- AT THE CONTRACTOR'S OPTION OR IF THE MINIMUM REQUIRED CLEAR DISTANCE IS NOT AVAILABLE, SET PCB NEXT TO AND UP AGAINST THE TRAFFIC SIDE OF THE TEMPORARY SHORING/WALLS EXCEPT FOR BARRIER ABOVE TEMPORARY WALLS. PCB WITH THE MINIMUM REQUIRED CLEAR DISTANCE IS REQUIRED ABOVE TEMPORARY WALLS.

6- USE NCDOT PORTABLE CONCRETE BARRIER (PCB) IN ACCORDANCE WITH ROADWAY STANDARD DRAWING NO. 1170.01 AND SECTION 1170 OF THE STANDARD SPECIFICATIONS.

7- SET PCB WITH A MINIMUM HORIZONTAL DISTANCE OF 2 FT BETWEEN THE FRONT FACE OF THE BARRIER AND THE EDGE OF THE NEAREST TRAFFIC LANE AS SHOWN IN FIGURE A UNLESS OTHERWISE SHOWN IN THE PLANS OR APPROVED BY THE ENGINEER.

8- FOR PCB ABOVE AND BEHIND TEMPORARY WALLS, PROVIDE A MINIMUM DISTANCE OF 3 FT BETWEEN THE EDGE OF PAVEMENT AND THE WALL FACE AS SHOWN IN FIGURE A. IF THIS MINIMUM REQUIRED DISTANCE IS NOT AVAILABLE, CONTACT THE ENGINEER.

9- TABLE SHOWN IN FIGURE B IS BASED ON NCDOT RESEARCH PROJECT NO. 2005-010 WITH VEHICLE TYPE USED FOR NCHRP 350 CRASH TESTS.

PROJ. REFERENCE NO.
R-5759

SHEET NO.
TMP-2

MINIMUM REQUIRED CLEAR DISTANCE, inches

Barrier Type	Pavement Type	Offset * ft	Design Speed, mph						
			<30	31-40	41-50	51-60	61-70	71-80	
Unanchored PCB	Asphalt	<8	24	26	29	32	36	40	
		8-14	26	28	31	35	38	42	
		14-20	27	29	34	36	39	43	
		20-26	28	31	35	38	40	44	
		26-32	29	32	36	39	42	45	
		32-38	30	34	38	41	43	46	
		38-44	31	34	41	43	45	48	
		44-50	31	35	41	43	46	49	
		50-56	32	36	42	44	47	50	
		>56	32	36	42	45	47	51	
	Concrete	<8	17	18	21	22	25	26	
		8-14	19	20	23	25	26	29	
		14-20	22	22	24	26	28	31	
		20-26	23	24	26	27	30	34	
		26-32	24	25	27	28	32	35	
		32-38	24	26	27	30	33	36	
		38-44	25	26	28	30	34	37	
		44-50	26	26	28	32	35	37	
		50-56	26	26	28	32	35	38	
		>56	26	27	29	32	36	38	
Anchored PCB	Asphalt	All Offsets	24 for All Design Speeds						
Anchored PCB	Concrete (including bridge approach slabs)	All Offsets	12 for All Design Speeds						

* See Figure Below

☐ OF FURTHEST TRAFFIC LANE

↑

OFFSET

↓

PCB

FIGURE B

APPROVED:

DocuSigned by:
Helen Shyu
0618072A086436C

10/12/2026

DATE: _____

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NORTH CAROLINA
PROFESSIONAL
SEAL
042517
ENGINEER
HELEN SHYU

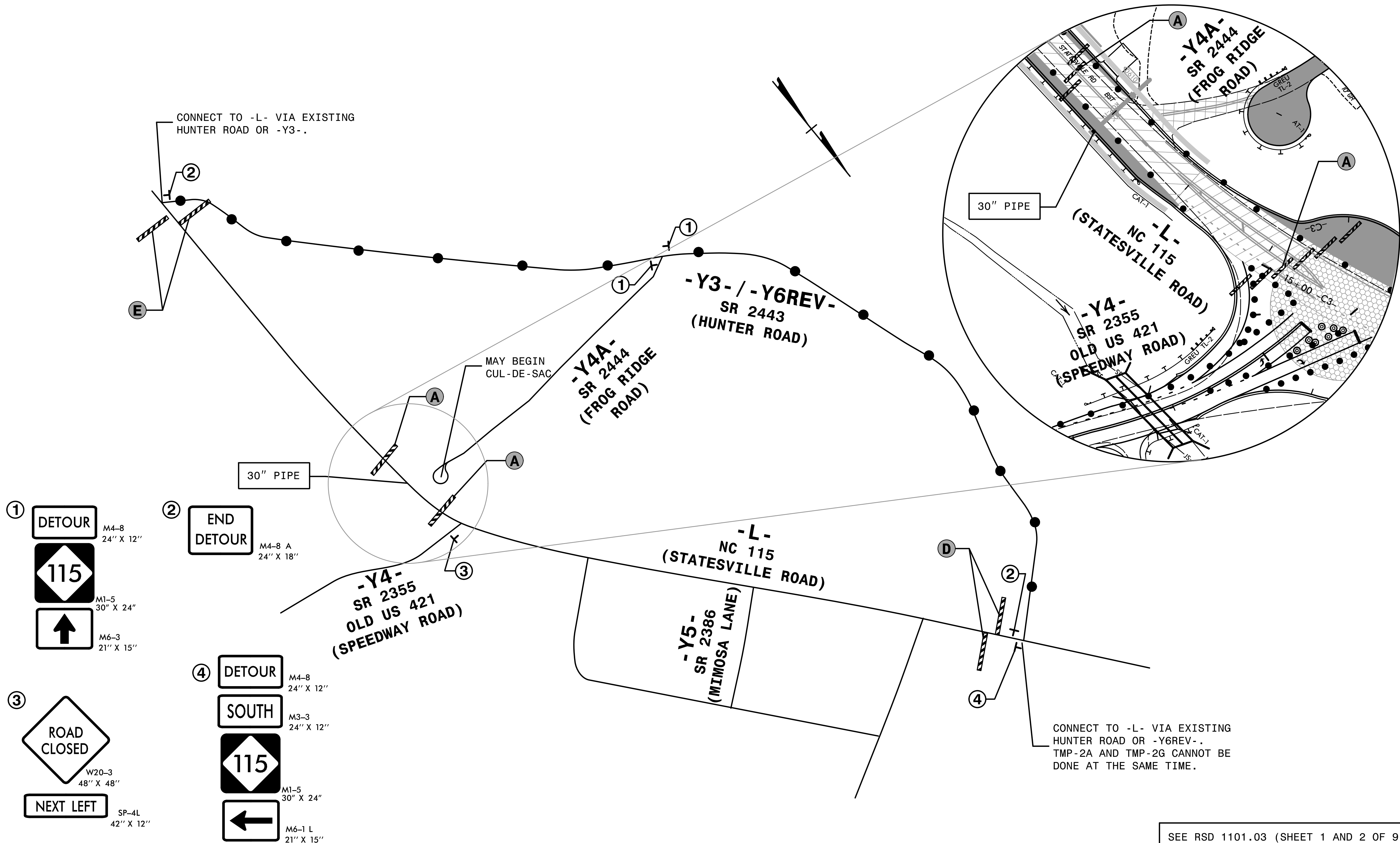
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DIVISION OF HIGHWAYS
STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION
WORK ZONE TRAFFIC CONTROL

TRANSPORTATION
MANAGEMENT PLAN

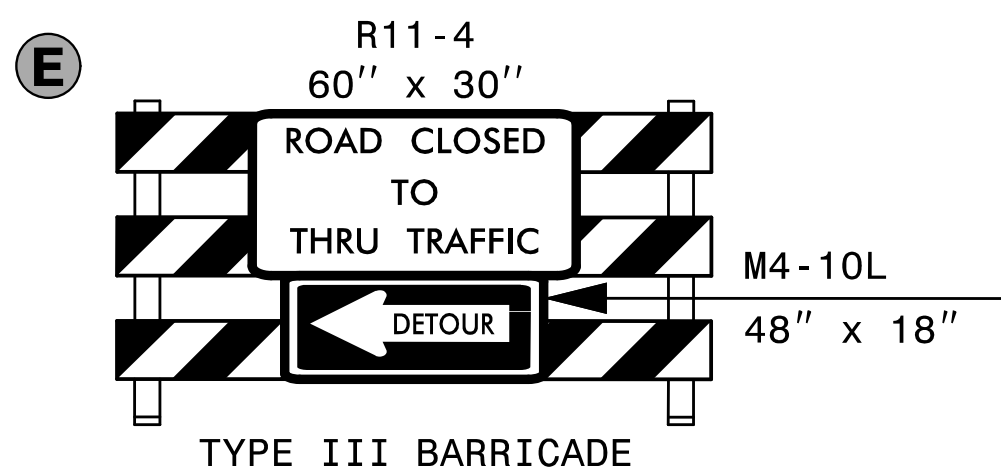
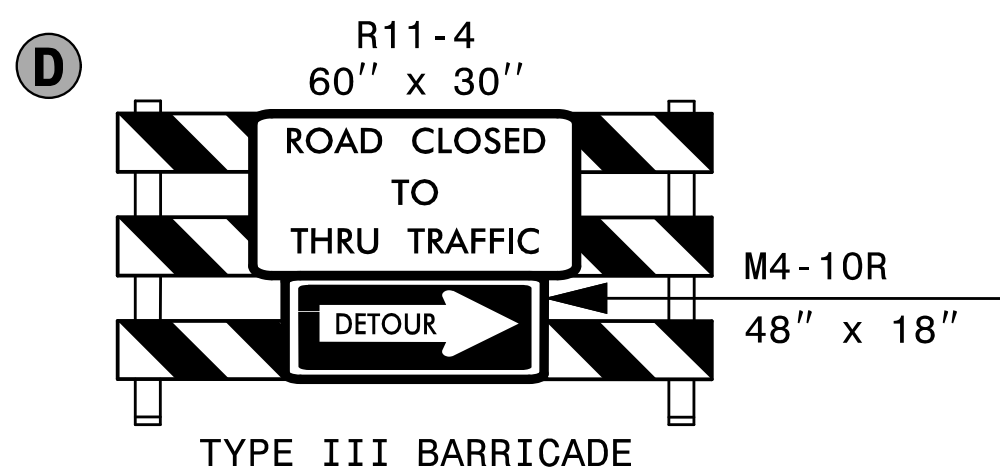
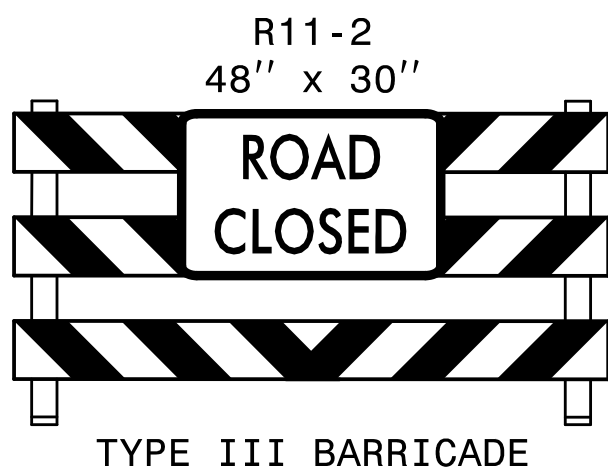
PORTABLE CONCRETE BARRIER
AT
TEMPORARY SHORING LOCATIONS

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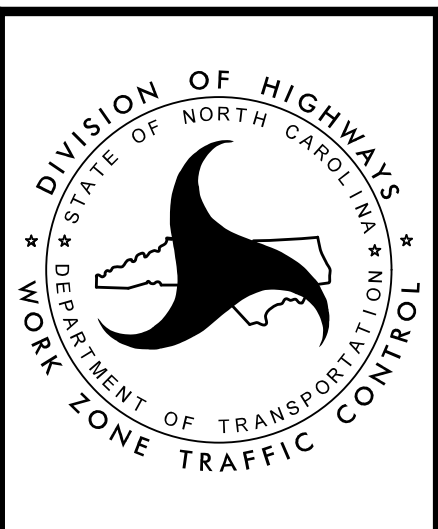
SEE RSD 1101.03 (SHEET 1 AND 2 OF 9) FOR
ADDITIONAL TRAFFIC CONTROL DEVICES.

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7/15/2026



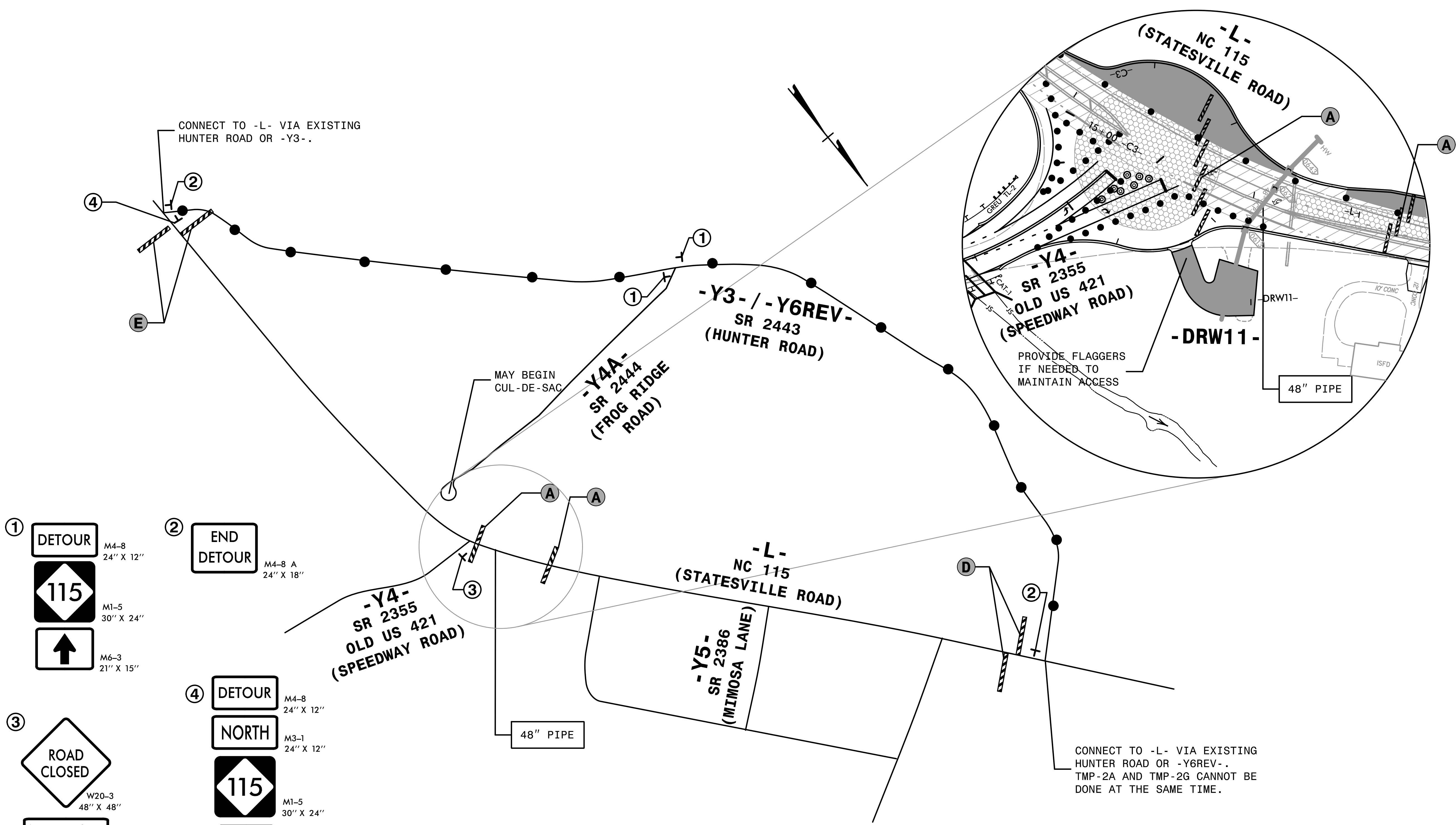
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TRANSPORTATION
MANAGEMENT PLAN

-L-
DETOUR
FOR DRAINAGE



- ①

DETOUR

M4-8
24" X 12"

115

M1-5
30" X 24"

↑

M6-3
21" X 15"
- ②

END
DETOUR

M4-8 A
24" X 18"
- ③

ROAD
CLOSED

W20-3
48" X 48"

NEXT RIGHT

SP-4R
42" X 12"
- ④

DETOUR

M4-8
24" X 12"

NORTH

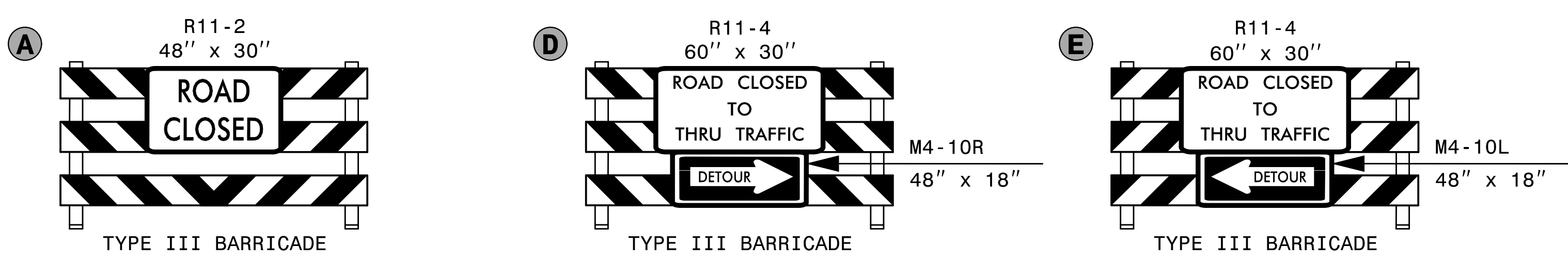
M3-1
24" X 12"

115

M1-5
30" X 24"

→

M6-1R
21" X 15"



SEE RSD 1101.03 (SHEET 1 AND 2 OF 9) FOR
ADDITIONAL TRAFFIC CONTROL DEVICES.

CONNECT TO -L- VIA EXISTING
HUNTER ROAD OR -Y6REV-.
TMP-2A AND TMP-2G CANNOT BE
DONE AT THE SAME TIME.

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7/15/2026

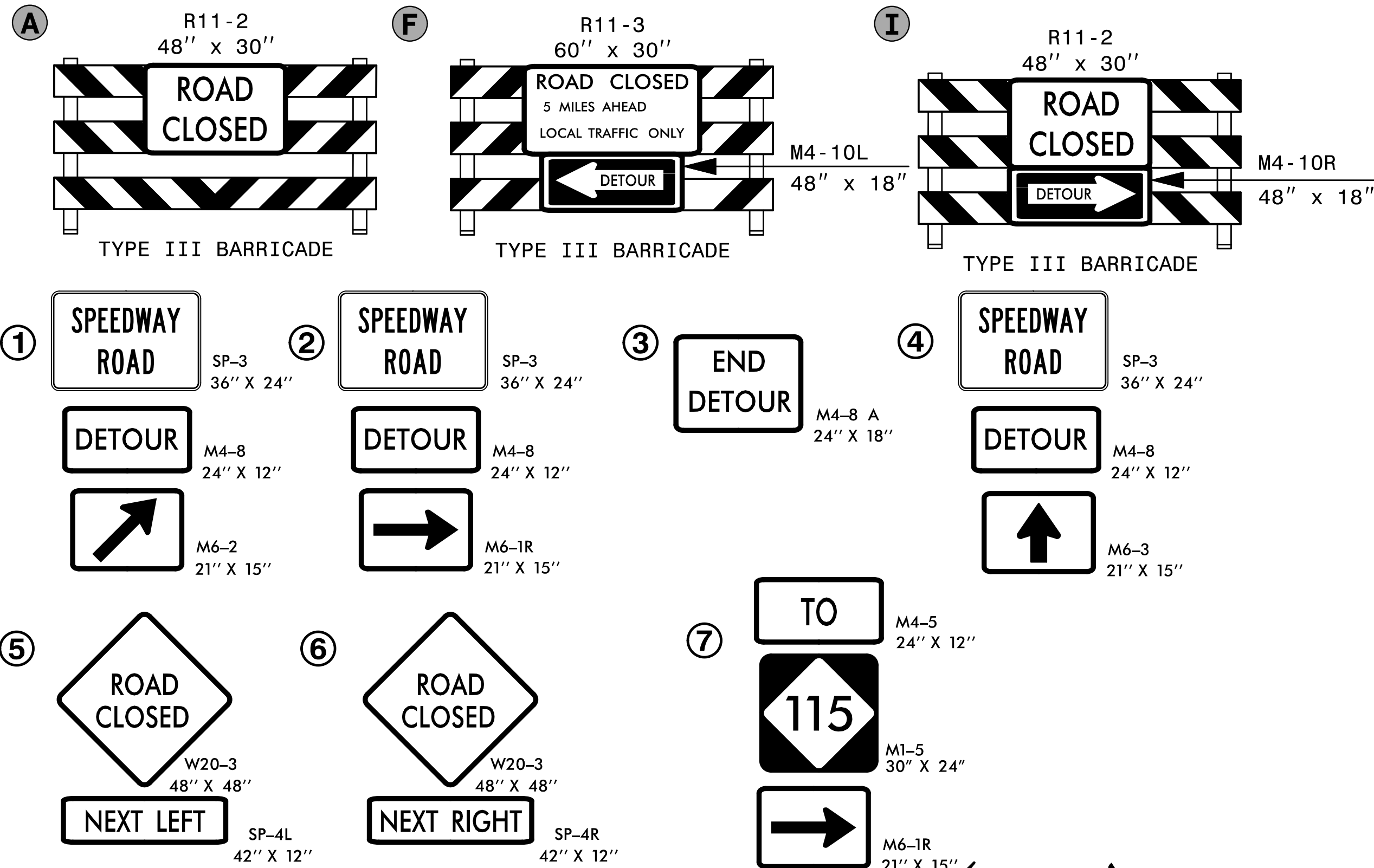
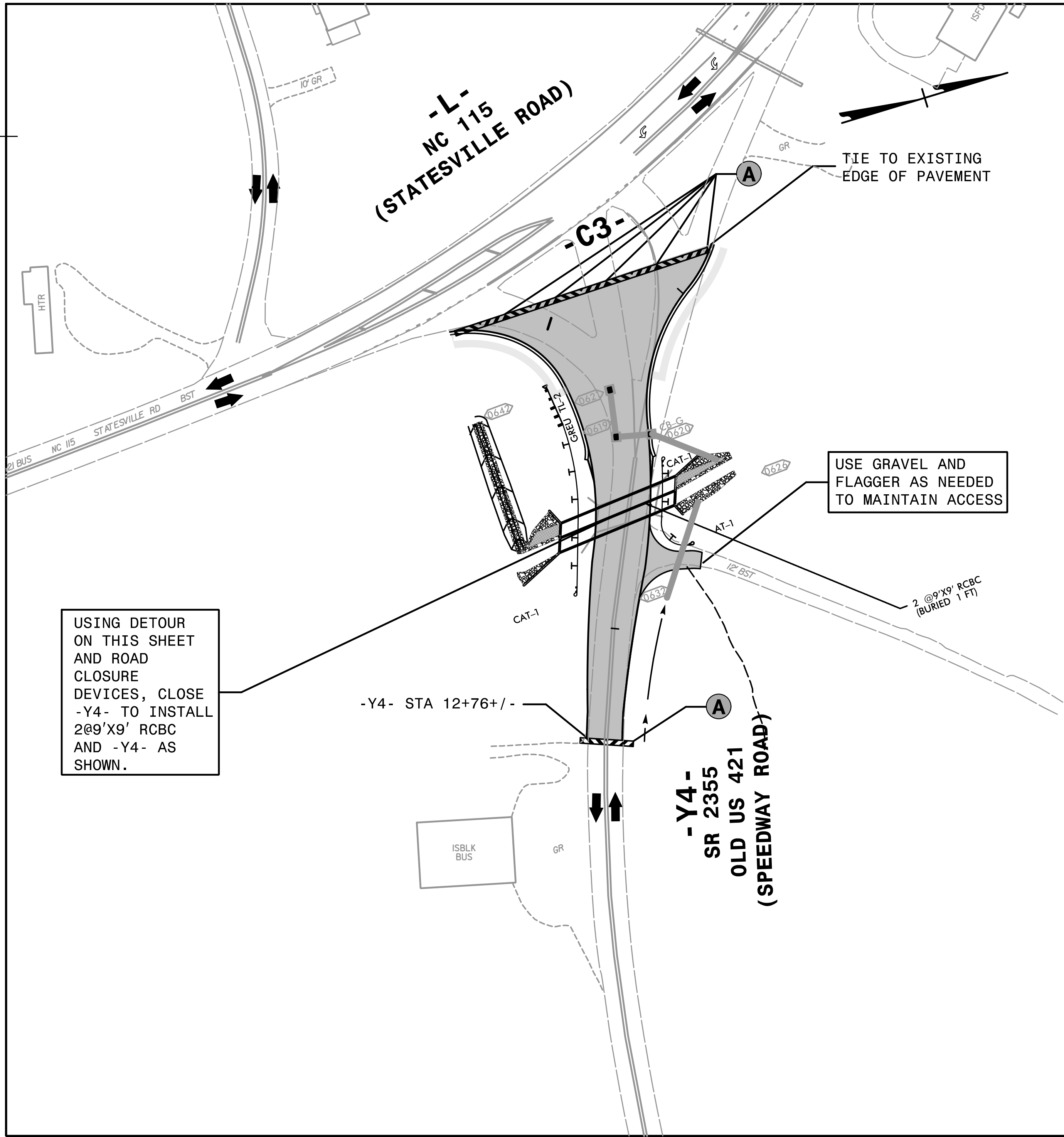
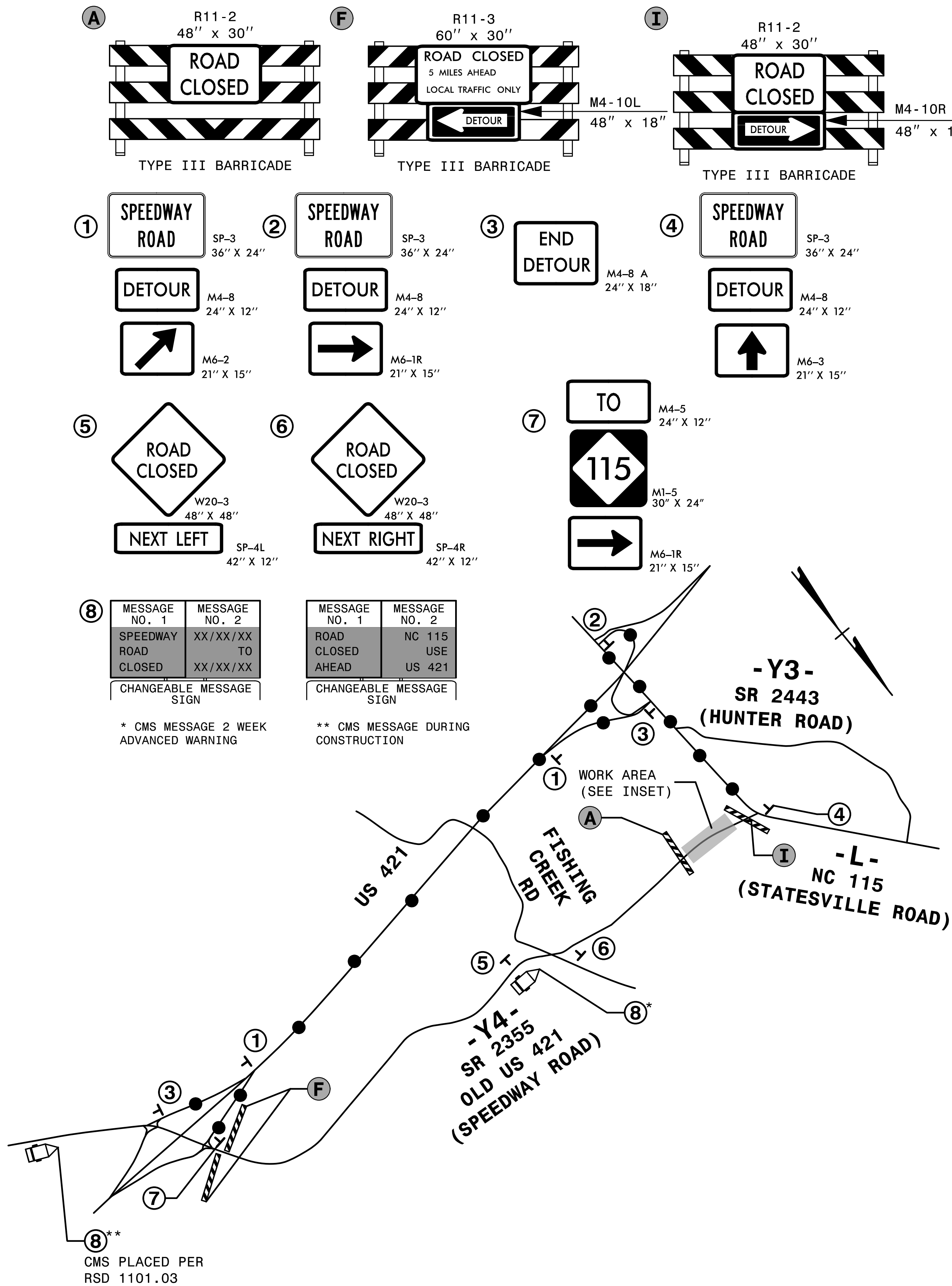
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TRANSPORTATION
MANAGEMENT PLAN

-L-
DETOUR
FOR DRAINAGE



MESSAGE NO. 1	MESSAGE NO. 2	MESSAGE NO. 1	MESSAGE NO. 2
SPEEDWAY ROAD TO CLOSED	XX/XX/XX TO XX/XX/XX	ROAD CLOSED AHEAD	NC 115 USE US 421
CHANGEABLE MESSAGE SIGN		CHANGEABLE MESSAGE SIGN	

* CMS MESSAGE 2 WEEK ADVANCED WARNING

** CMS MESSAGE DURING CONSTRUCTION

SEE RSD 1101.03 (SHEET 1 AND 2 OF 9) FOR ADDITIONAL TRAFFIC CONTROL DEVICES.

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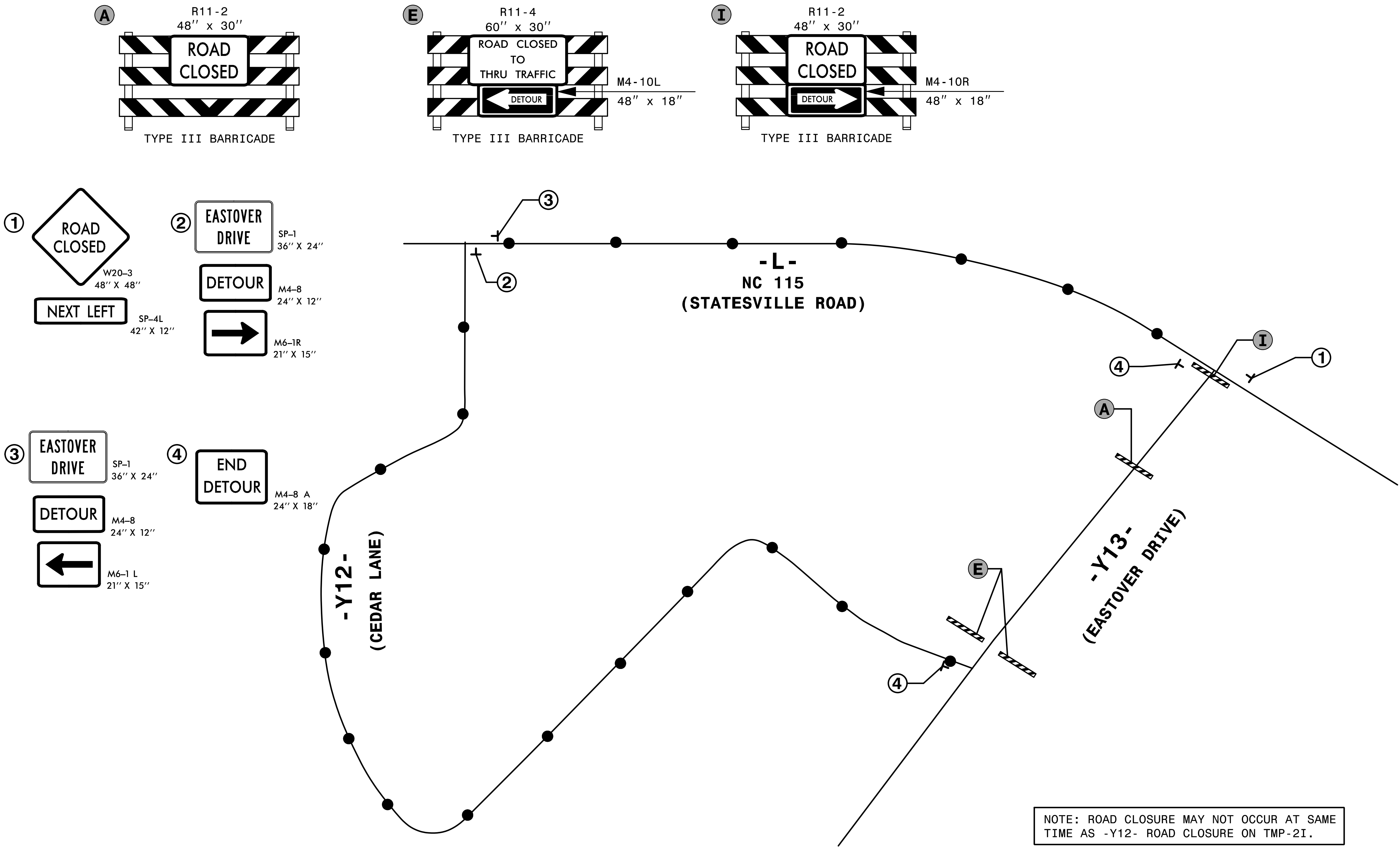
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TRANSPORTATION
MANAGEMENT PLAN

-Y4-
(OLD US 421)
DETOUR



NOTE: ROAD CLOSURE MAY NOT OCCUR AT SAME TIME AS -Y12- ROAD CLOSURE ON TMP-2I.

SEE RSD 1101.03 (SHEET 1 AND 2 OF 9) FOR ADDITIONAL TRAFFIC CONTROL DEVICES

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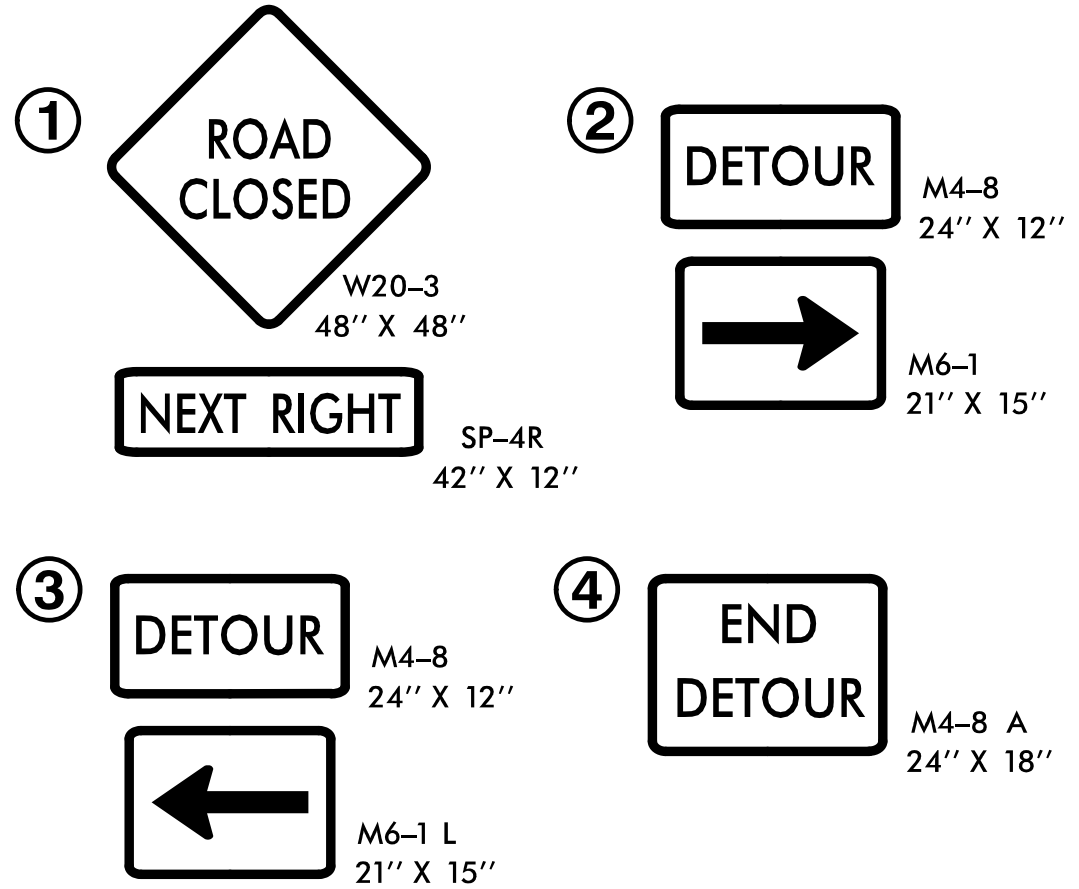
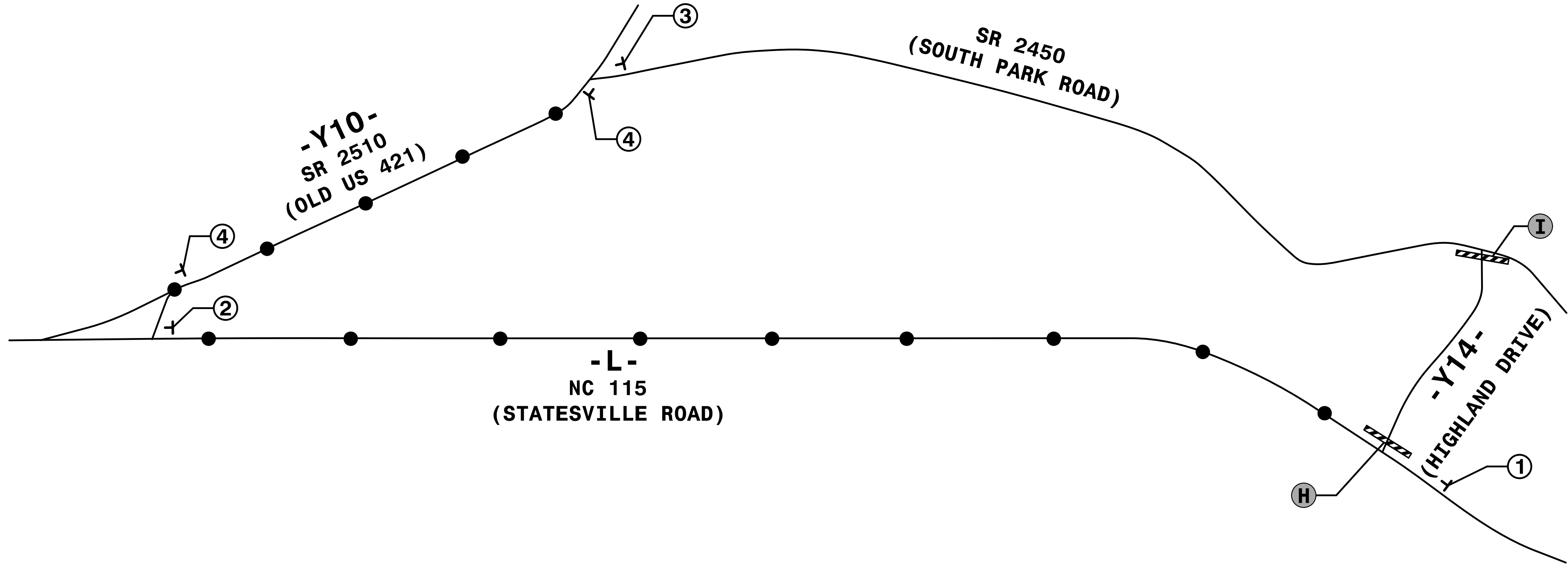
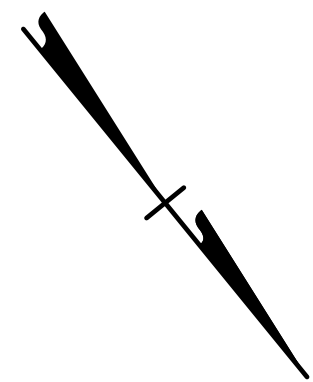
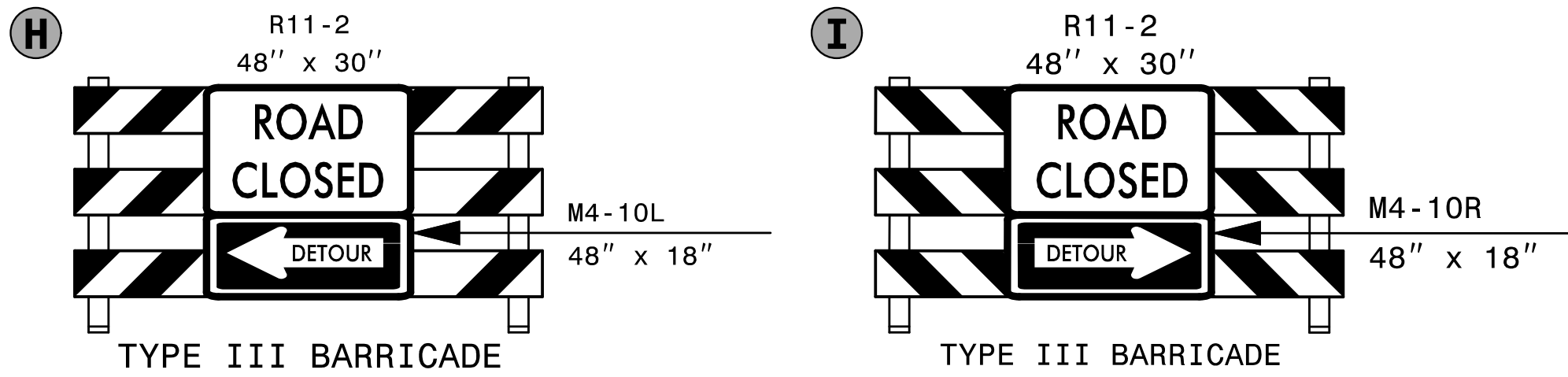
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TRANSPORTATION
MANAGEMENT PLAN

-Y13-
(EASTOVER DRIVE)
DETOUR



SEE RSD 1101.03 (SHEET 2 OF 9) FOR
ADDITIONAL TRAFFIC CONTROL DEVICES

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Helen Shyu
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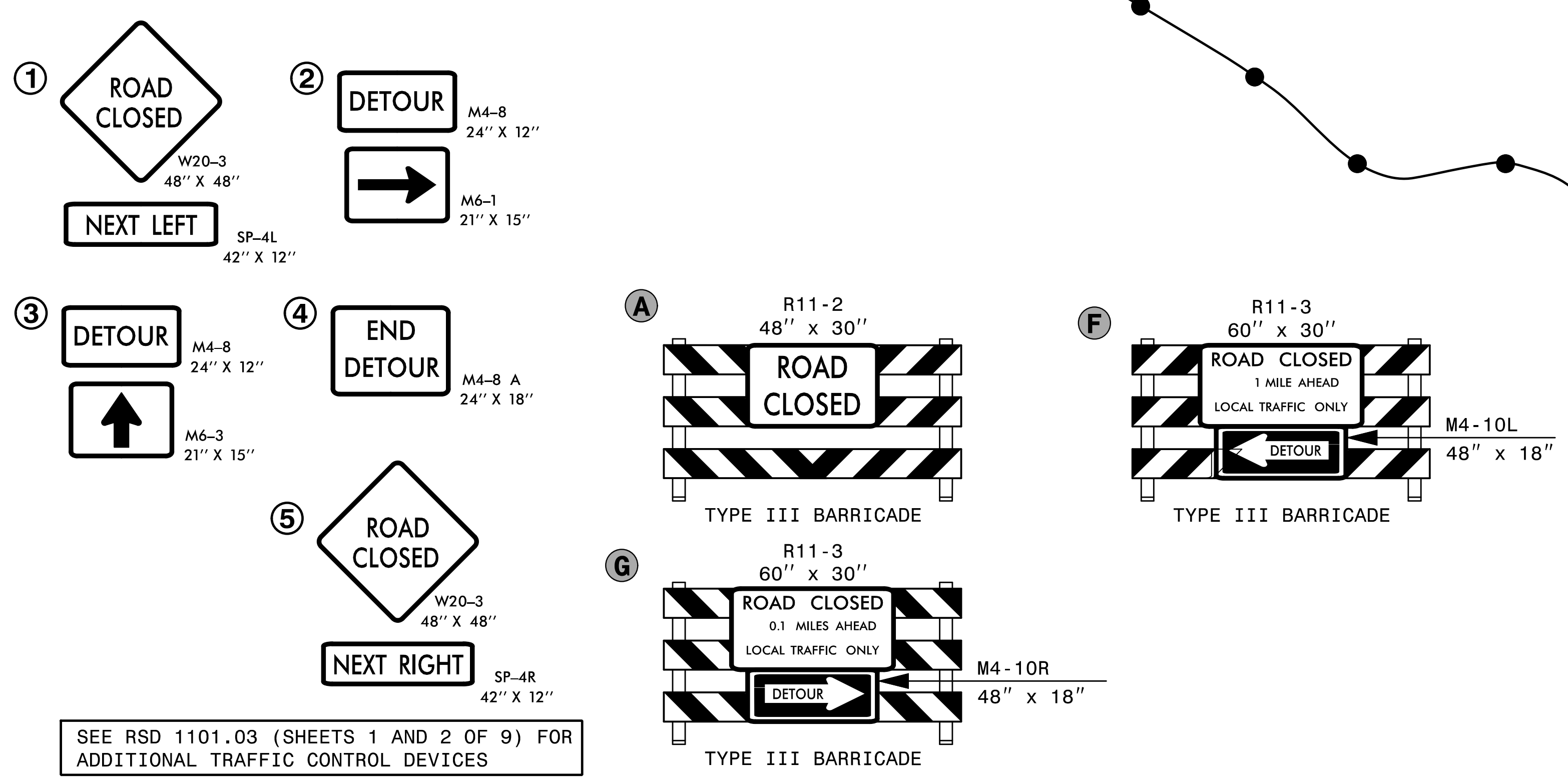
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HELEN SHYU

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TRANSPORTATION
MANAGEMENT PLAN

-Y14-
(HIGHLAND DRIVE)
DETOUR

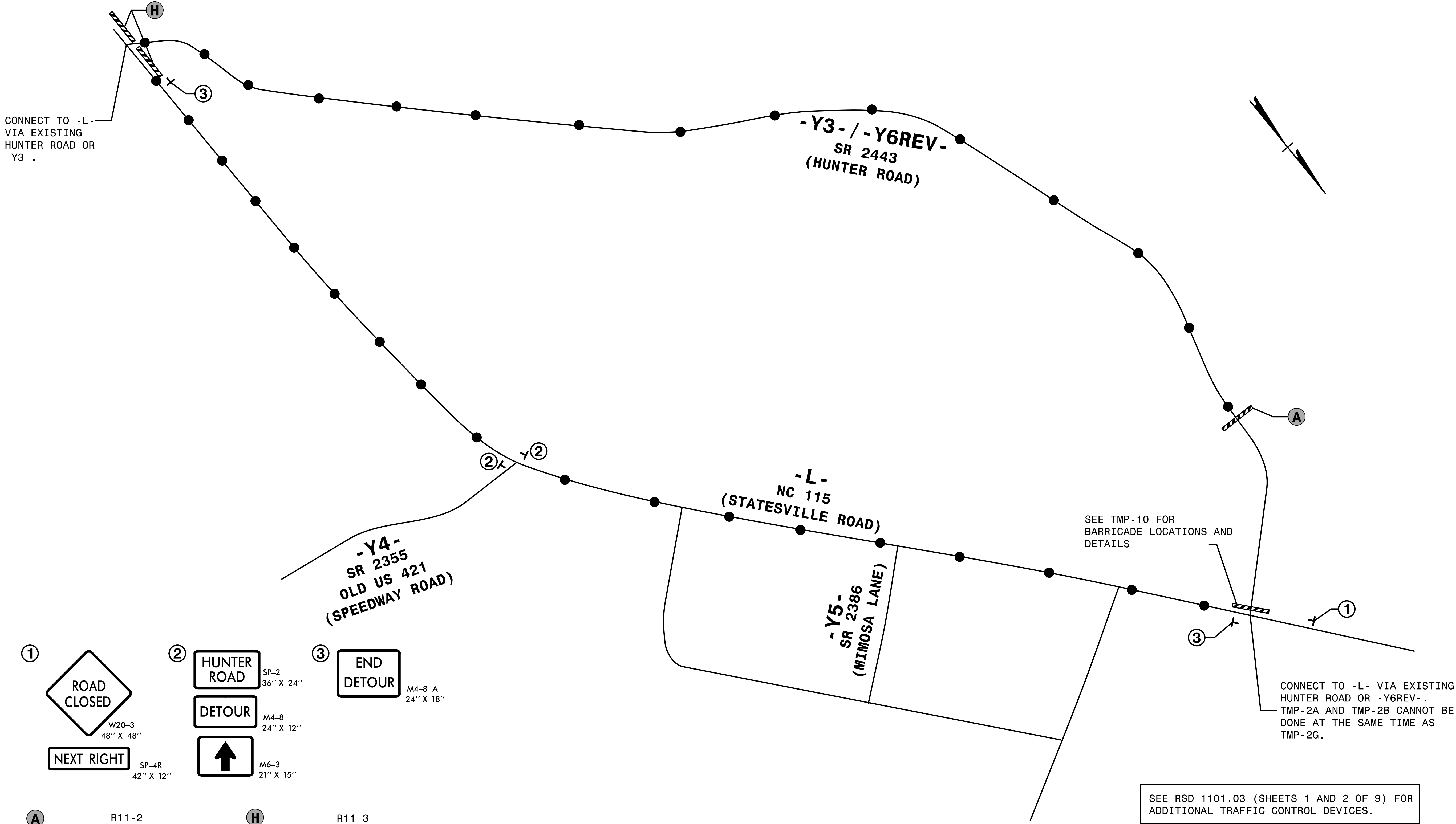


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TRANSPORTATION
MANAGEMENT PLAN

-Y15-
(ARMORY ROAD)
DETOUR

PROJ. REFERENCE NO.	SHEET NO.
R-5759	TMP-2G



①

ROAD CLOSED

W20-3
48" X 48"

NEXT RIGHT

SP-4R
42" X 12"

②

HUNTER ROAD

SP-2
36" X 24"

DETOUR

M4-8
24" X 12"

M6-3
21" X 15"

③

END DETOUR

M4-8 A
24" X 18"

A

R11-2
48" x 30"

ROAD CLOSED

TYPE III BARRICADE

H

R11-3
60" x 30"

ROAD CLOSED
0.5 MILES AHEAD
LOCAL TRAFFIC ONLY

TYPE III BARRICADE

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0C16026A8D5E4A6E

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ENGINEER
HELEN SHYU

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TRANSPORTATION
MANAGEMENT PLAN

**- Y6REV -
(HUNTER ROAD)
DETOUR**

[illegible][illegible]

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SPECIAL SIGN DESIGNS



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10/12/2026	
DATE: _____	
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TRANSPORTATION MANAGEMENT PLAN

-Y12-
(CEDAR LANE)
DETOUR

PROJ. REFERENCE NO.	SHEET NO.
R - 5759	TMP - 2J

SHORING NOTES

TEMPORARY SHORING NO. 1

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 -L- 132+45, 0.5 FT LEFT, TO STATION -L- 133+75, 0.5 FT LEFT, 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 = 1023 FT
WEATHERED ROCK ELEVATION = 1041 FT TO 1023 FT

DESIGN TEMPORARY SHORING FROM STATION -L- 133+75, 0.5 FT LEFT, TO STATION -L- 135+33, 0.5 FT LEFT, FOR THE FOLLOWING ASSUMED SOIL PARAMETERS AND GROUNDWATER ELEVATION:

UNIT WEIGHT (γ) = 120 PCF
FRICTION ANGLE (ϕ) = 24 DEGREES
COHESION (C) = 250 PSF
GROUNDWATER ELEVATION = 1015 FT
WEATHERED ROCK ELEVATION = 1023 FT TO 1004 FT

LIMITED SUBSURFACE INFORMATION IS AVAILABLE IN THE VICINITY OF TEMPORARY SHORING FROM STATION -L- 132+45, 0.5 FT LEFT, TO STATION -L- 135+33, 0.5 FT LEFT. THE INFORMATION PROVIDED FOR TEMPORARY SHORING DESIGN WAS ASSUMED AND MAY NOT BE APPLICABLE TO THE ACTUAL SITE CONDITIONS ENCOUNTERED DURING CONSTRUCTION.

DRIVEN PILING FOR TEMPORARY SHORING FROM STATION -L- 132+45, 0.5 FT LEFT TO STATION -L- 133+75, 0.5 FT LEFT WILL NOT PENETRATE BELOW ELEVATIONS 1041 FT TO 1023 FT DUE TO WEATHERED OR HARD ROCK

DO NOT USE A TEMPORARY WALL FOR TEMPORARY SHORING FROM STATION -L- 132+45, 0.5 FT LEFT, TO STATION -L- 135+33, 0.5 FT LEFT.

IT MAY BE PREFERRED TO USE A TEMPORARY SOIL NAIL WALL FOR TEMPORARY SHORING FROM STATION -L- 132 + 45, 0.5 FT LEFT, TO STATION -L- 135+33, 0.5 FT LEFT. FOR TEMPORARY SOIL NAIL WALLS, SEE TEMPORARY SOIL NAIL WALLS PROVISION.

TEMPORARY SHORING DESIGN SHOULD BE SUBMITTED, WITH THE WALL DESIGN AS A CONSTRUCTION SUBMITTAL.

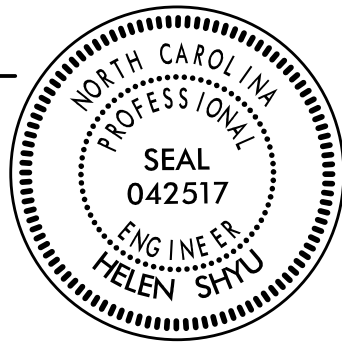
THE TEMPORARY SHORING NOTES SHOWN ON THIS SHEET WERE PROVIDED THROUGH A SEALED DOCUMENT FROM TERRACON CONSULTANTS, INC. THE DOCUMENT WAS SUBMITTED WAS SEALED BY A PROFESSIONAL ENGINEER, ABNER F. RIGGS, JR., LICENSE #14155 ON JANUARY 29, 2026.

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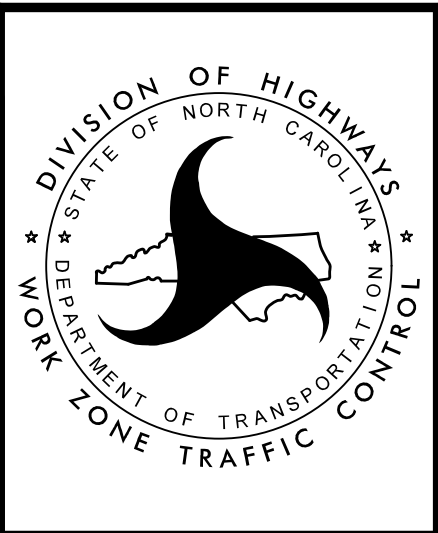
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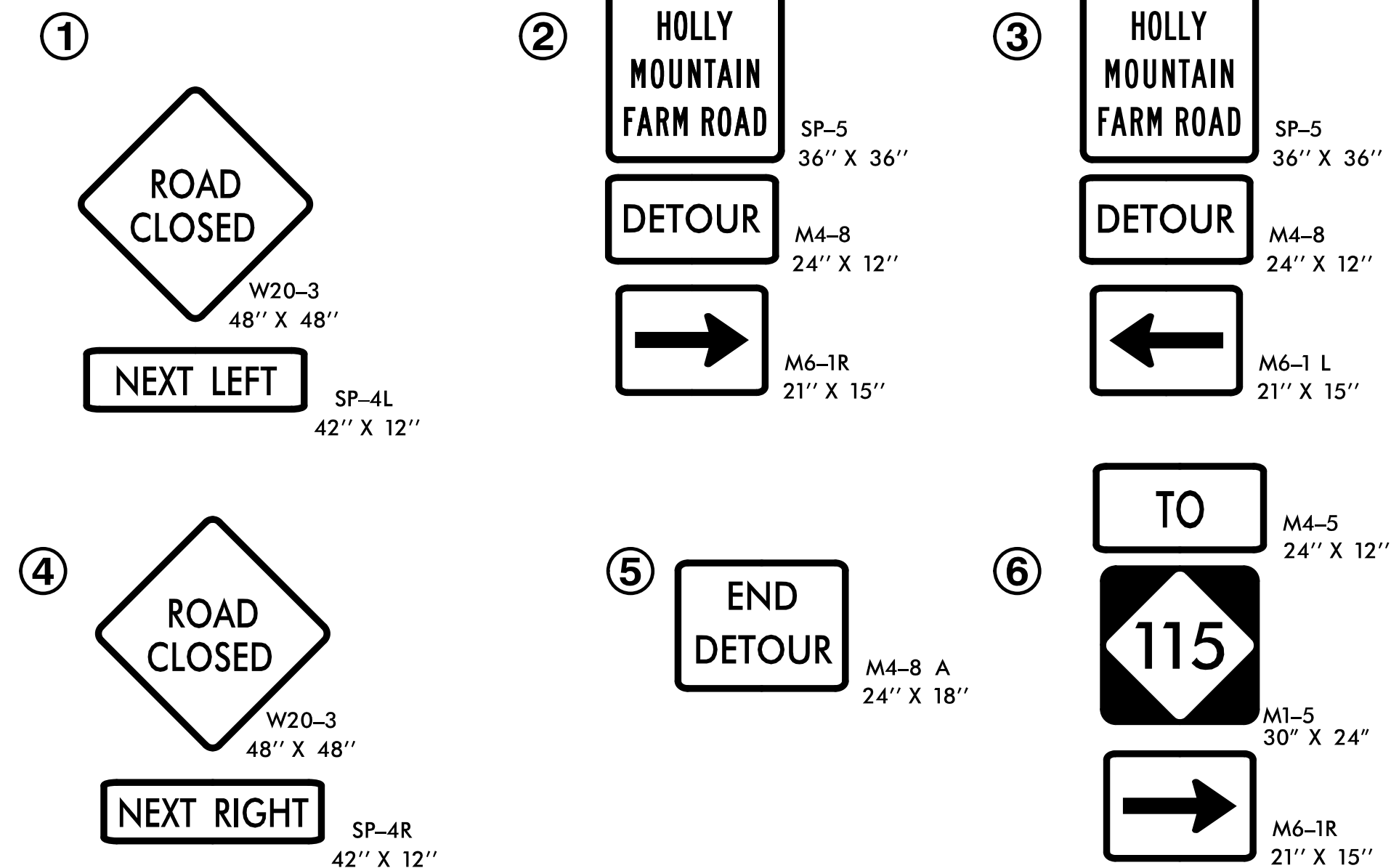
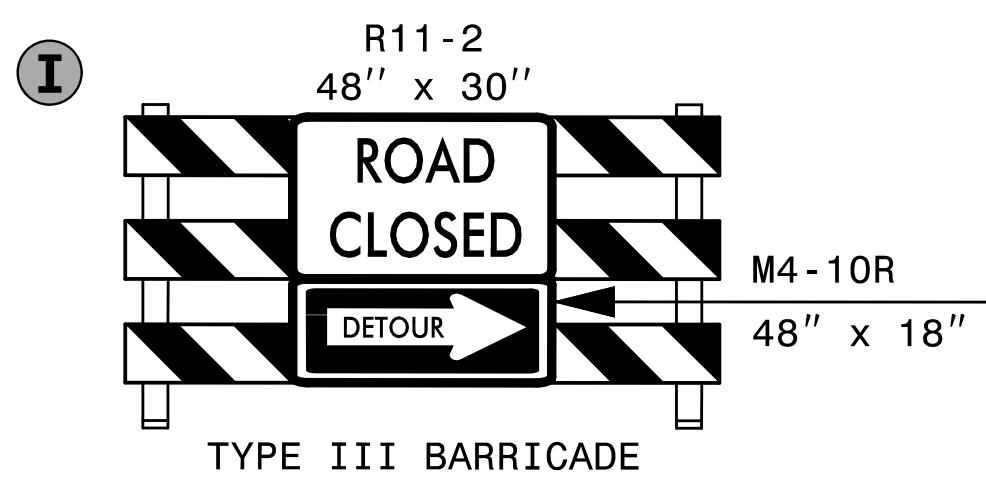
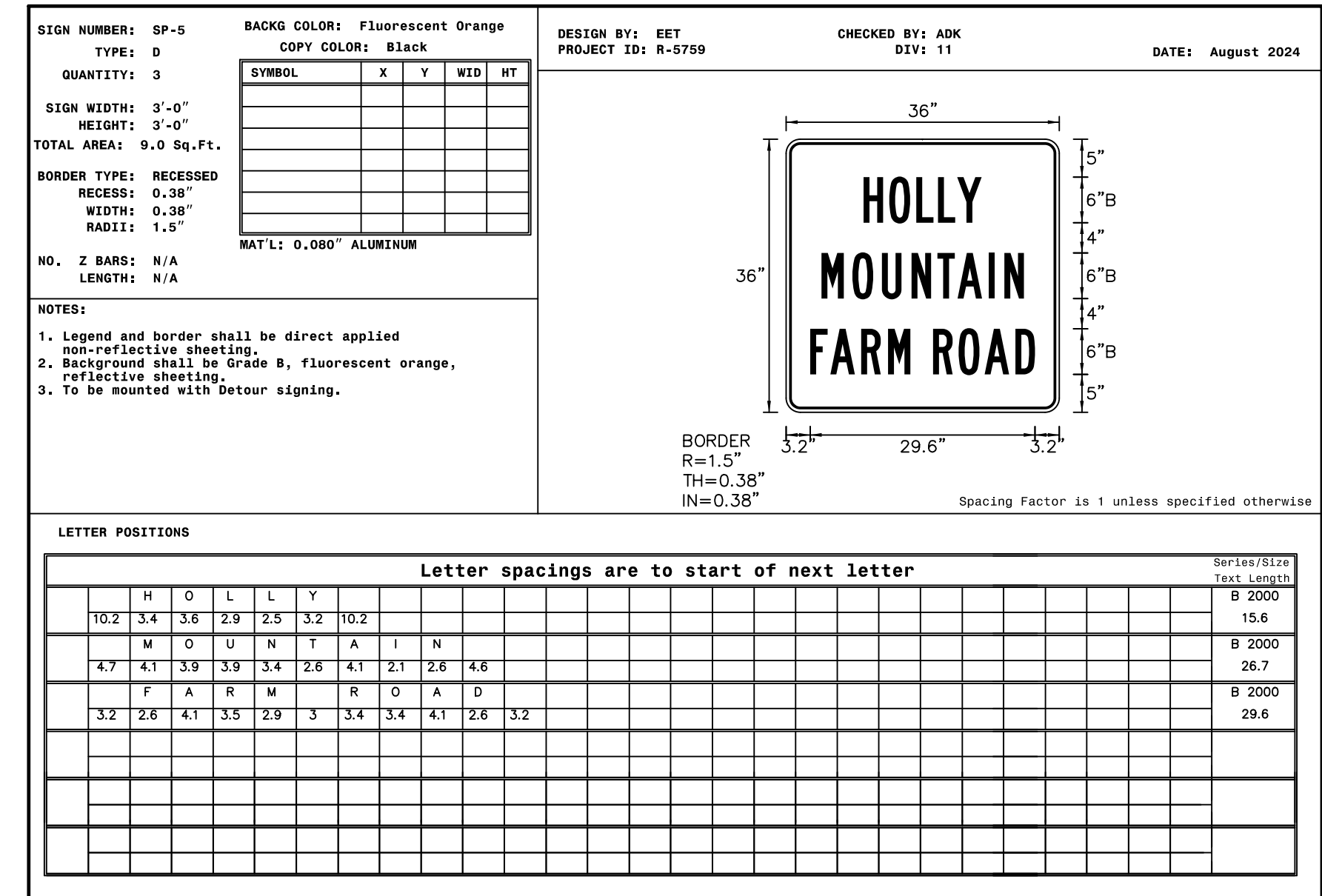


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TRANSPORTATION
MANAGEMENT PLAN

TEMPORARY
SHORING DATA



SEE RSD 1101.03 (SHEET 1 AND 2 OF 9) FOR
ADDITIONAL TRAFFIC CONTROL DEVICES.

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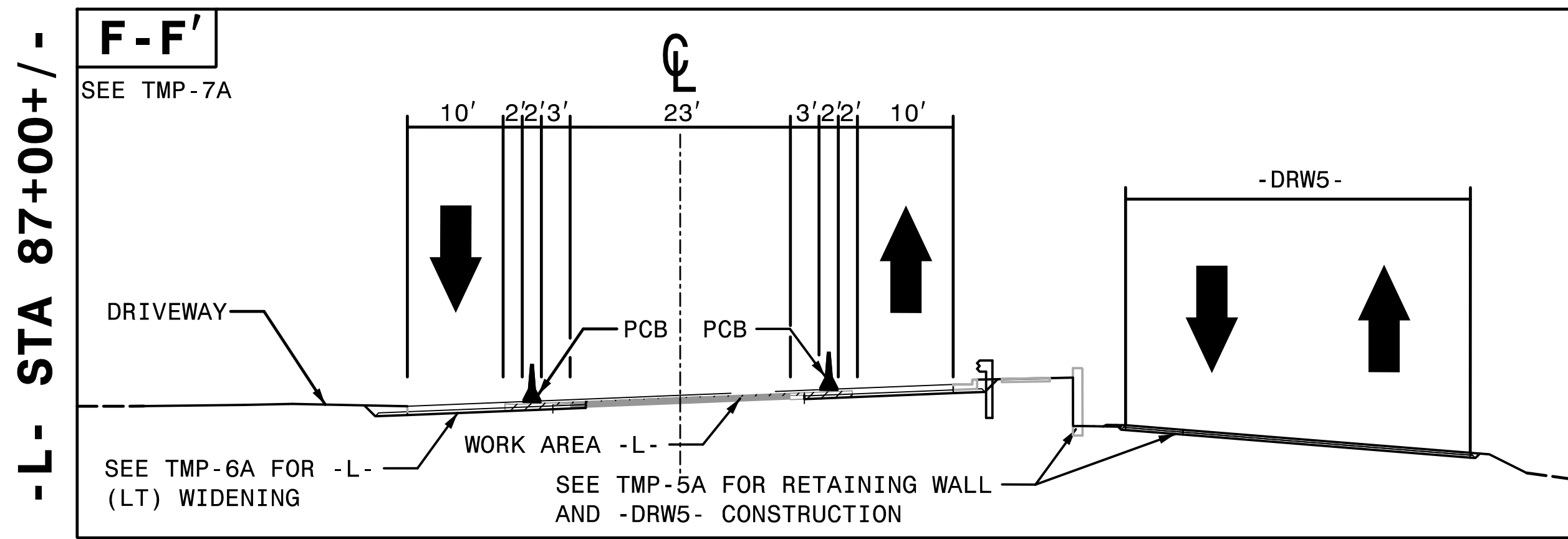
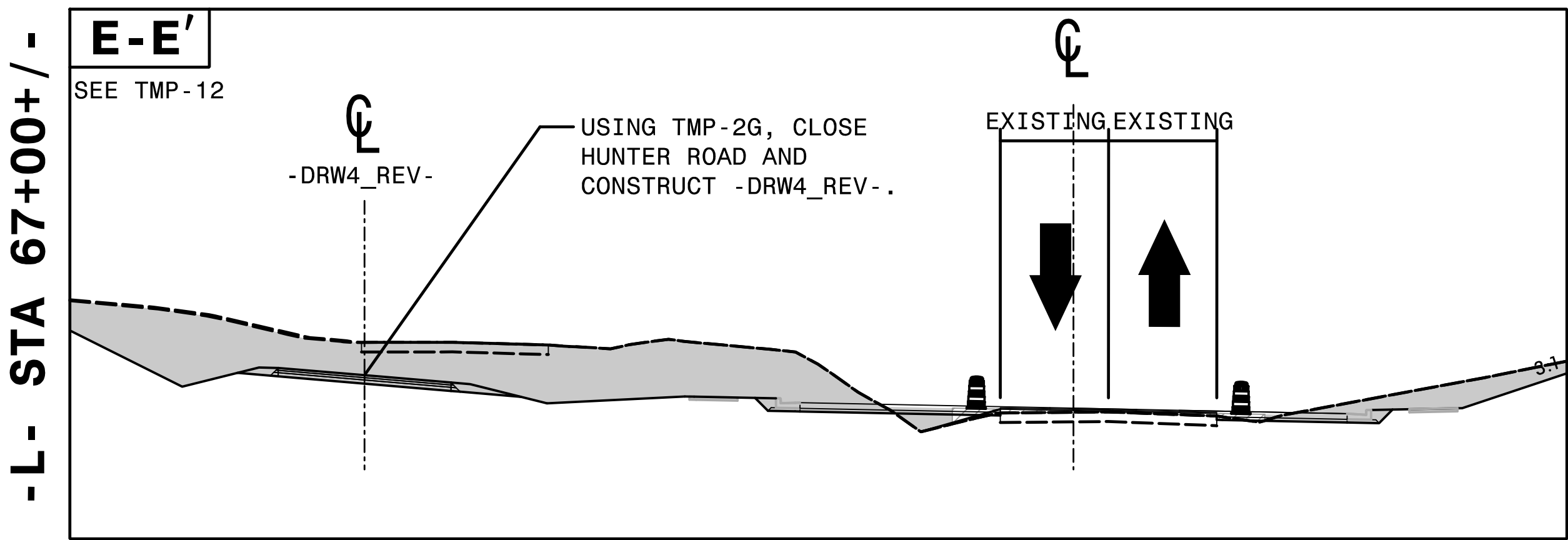
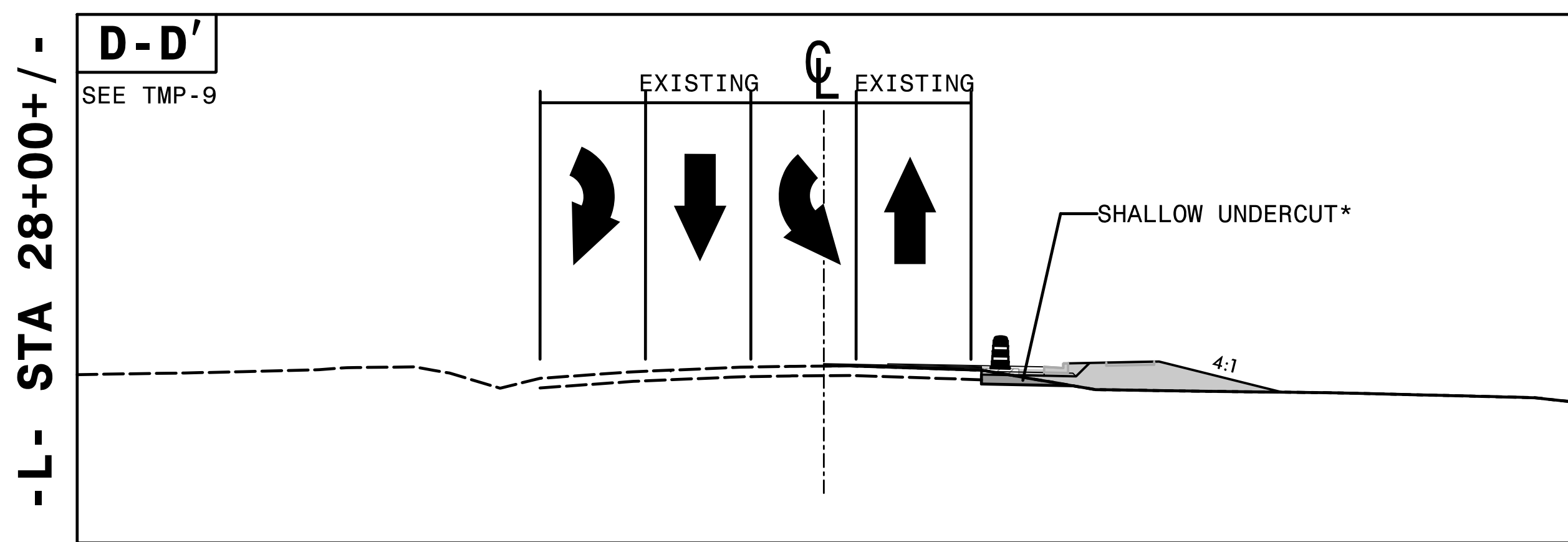
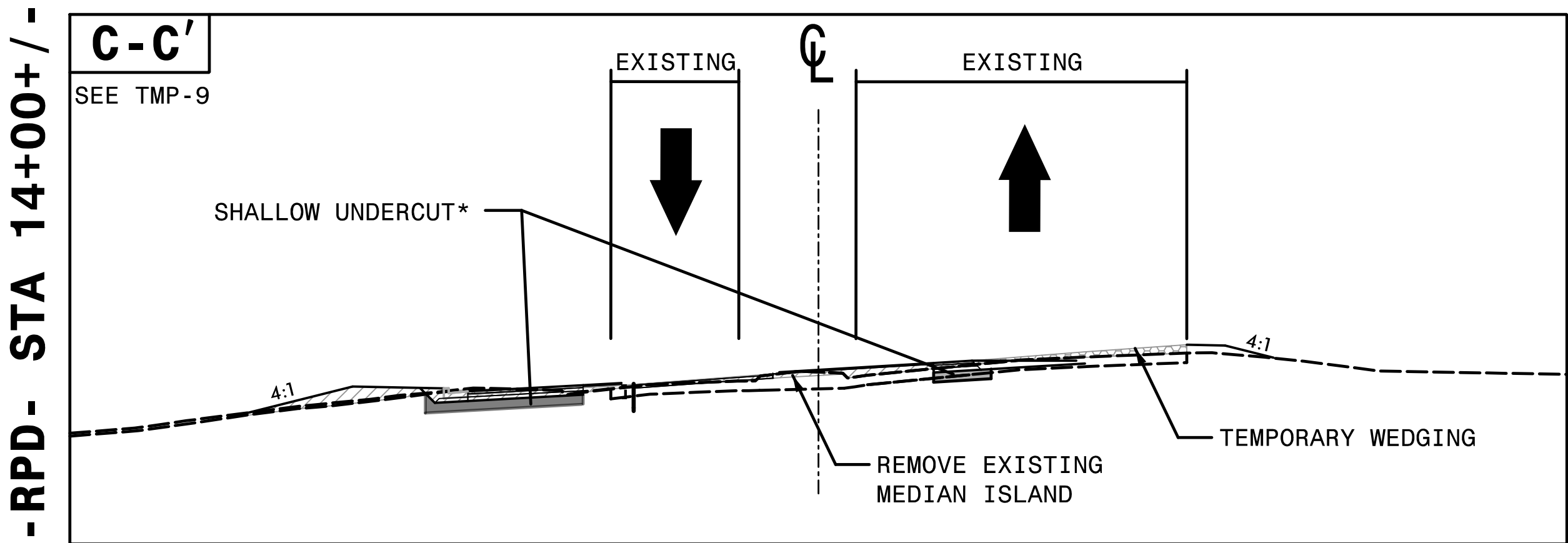
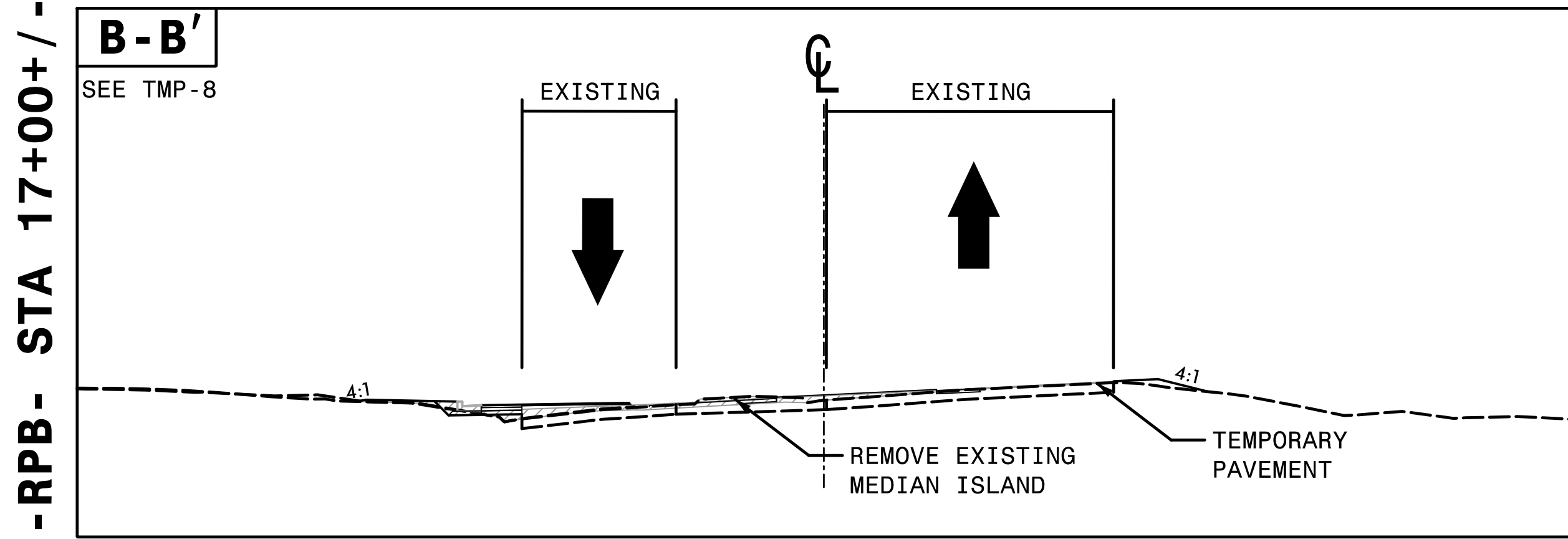
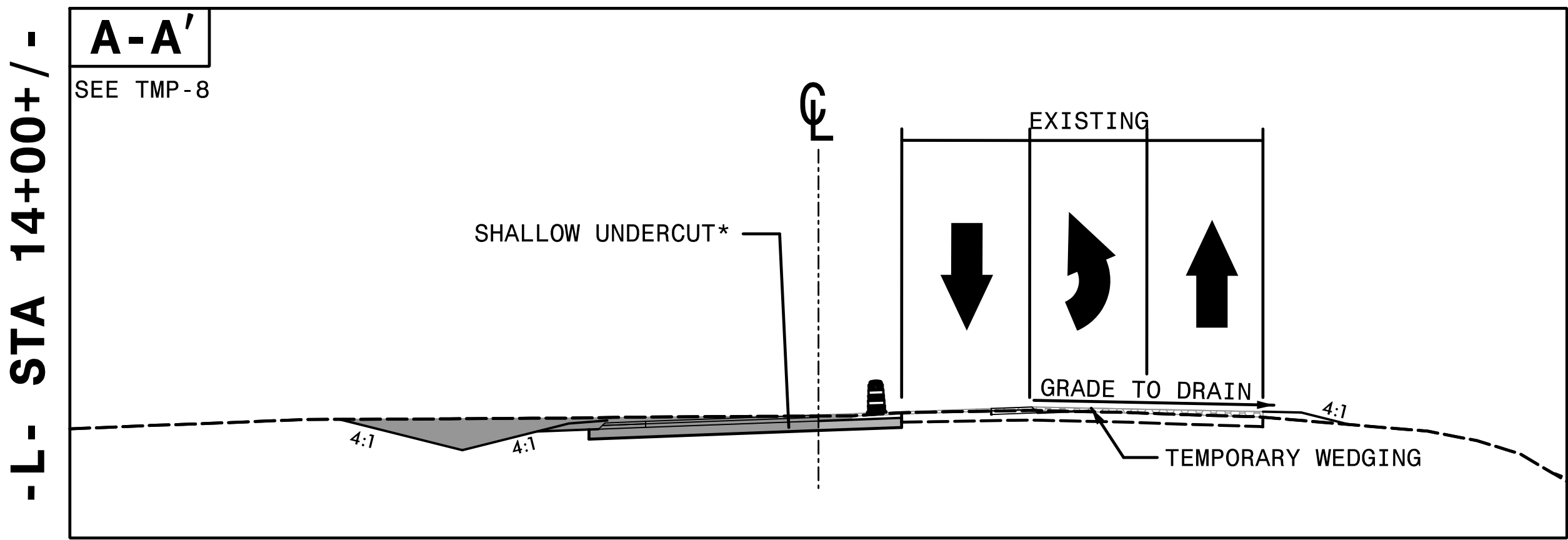
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HELEN SHYU

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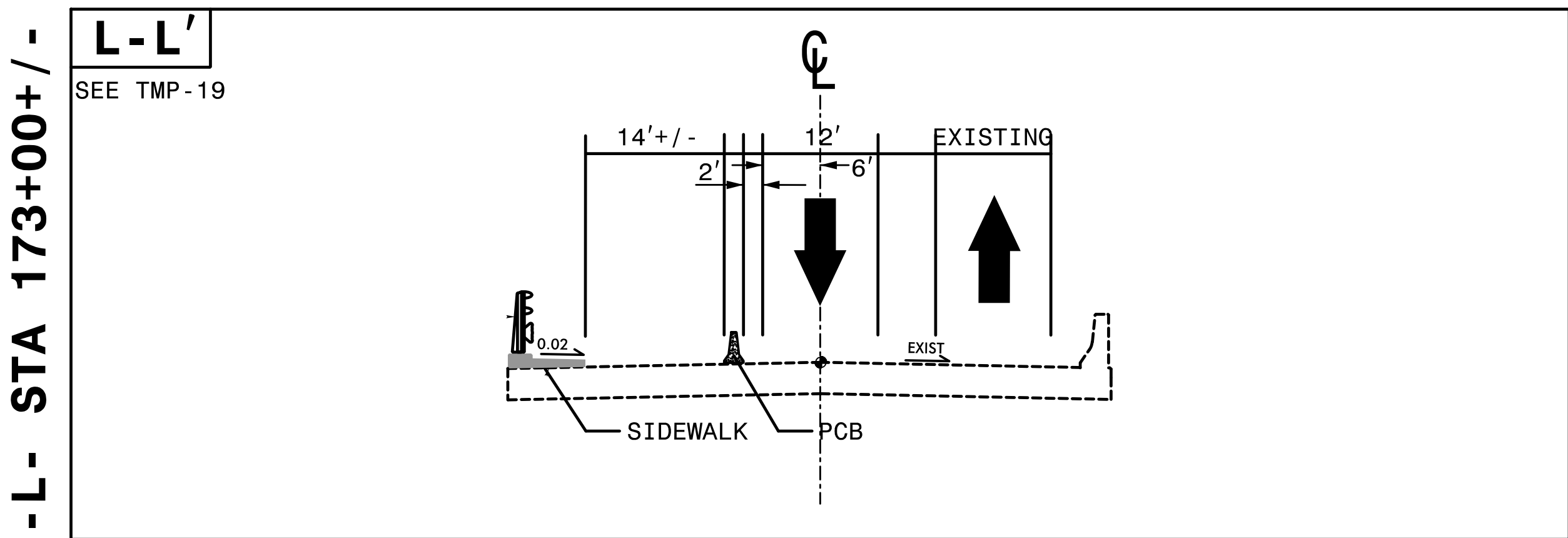
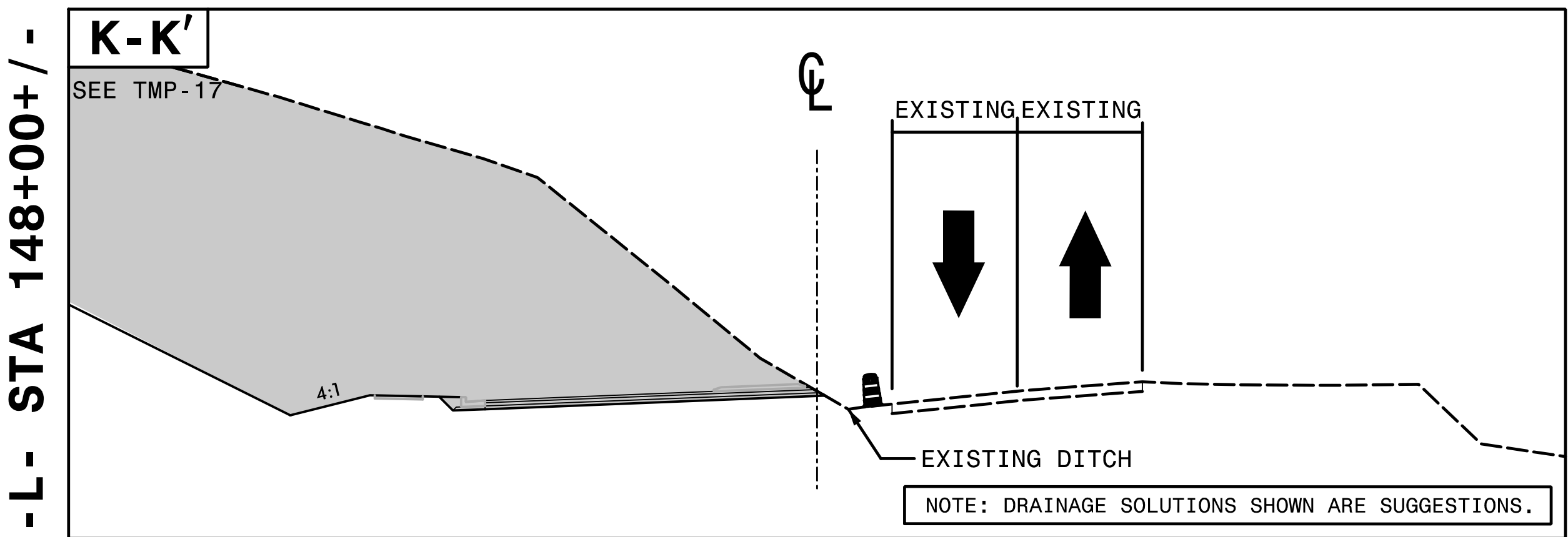
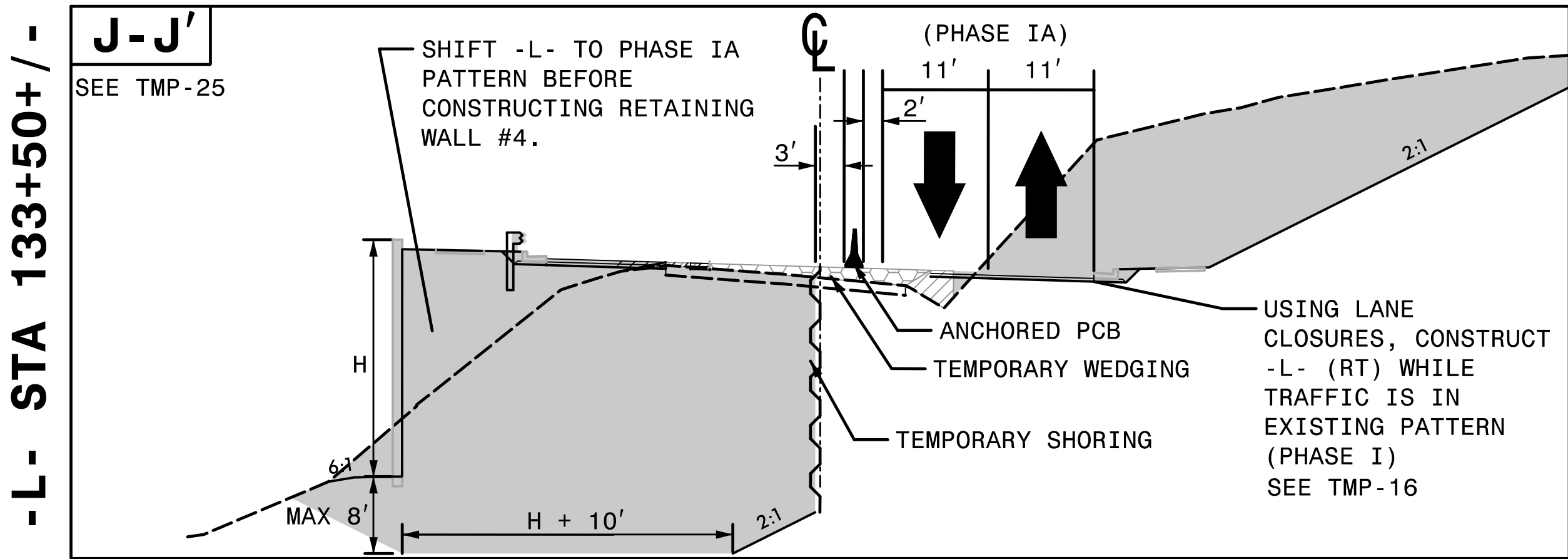
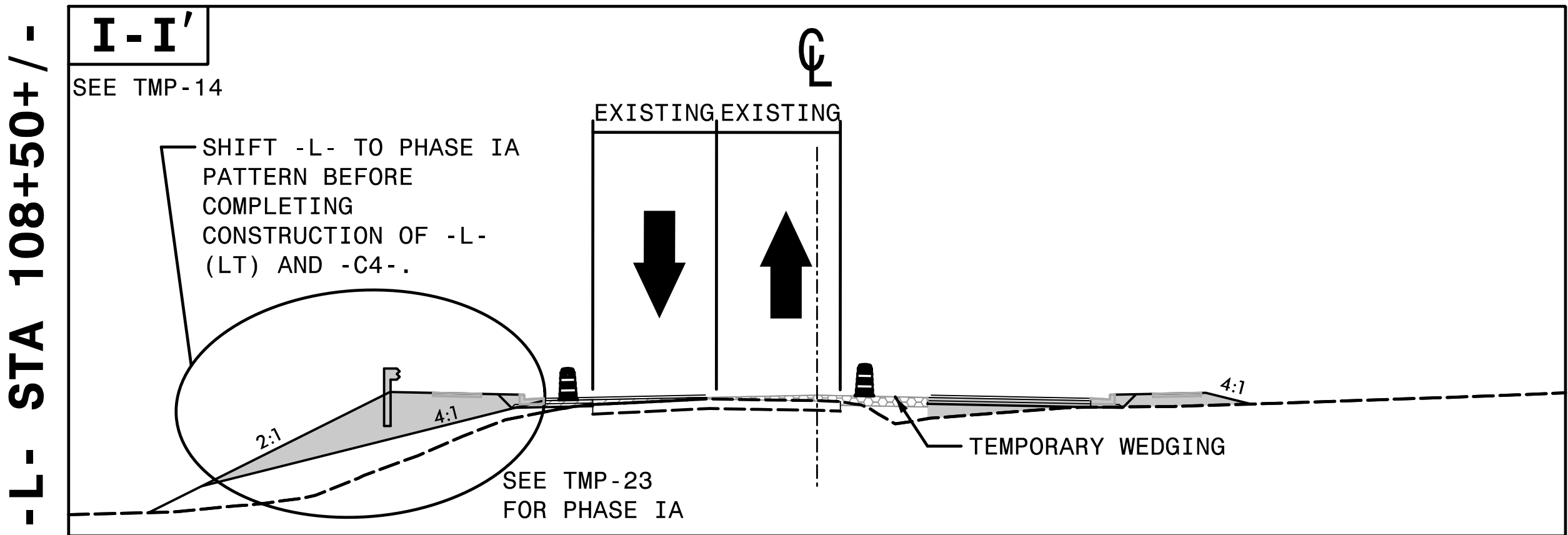
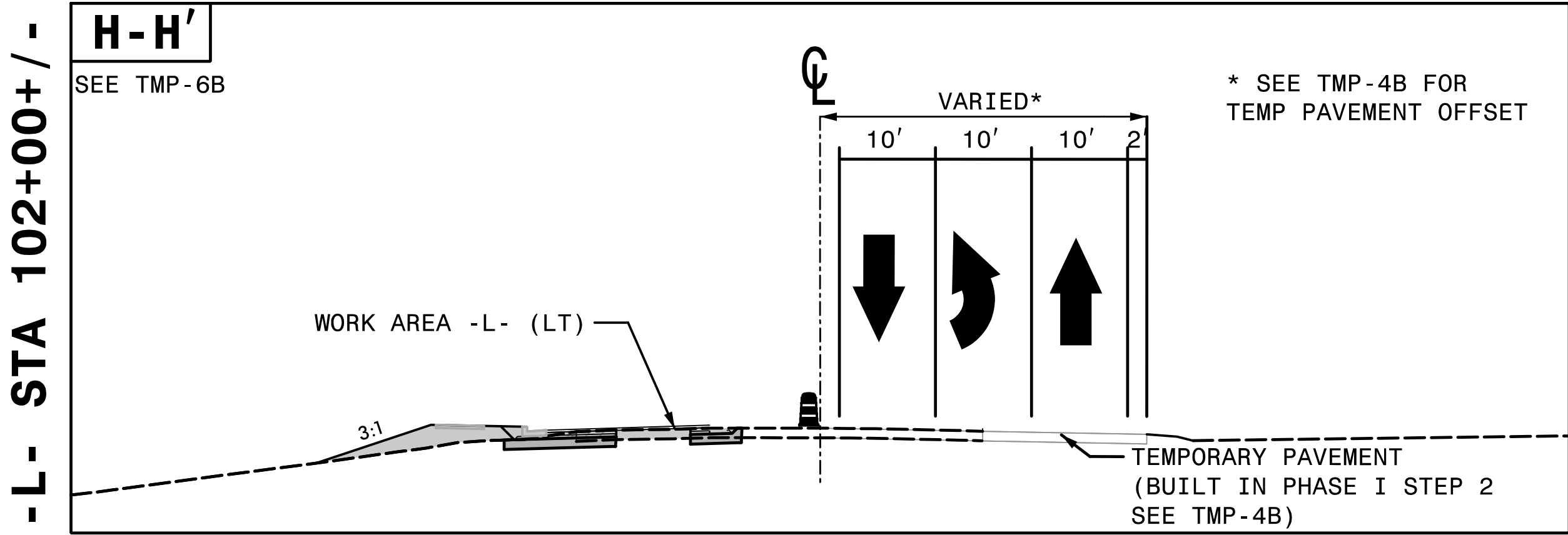
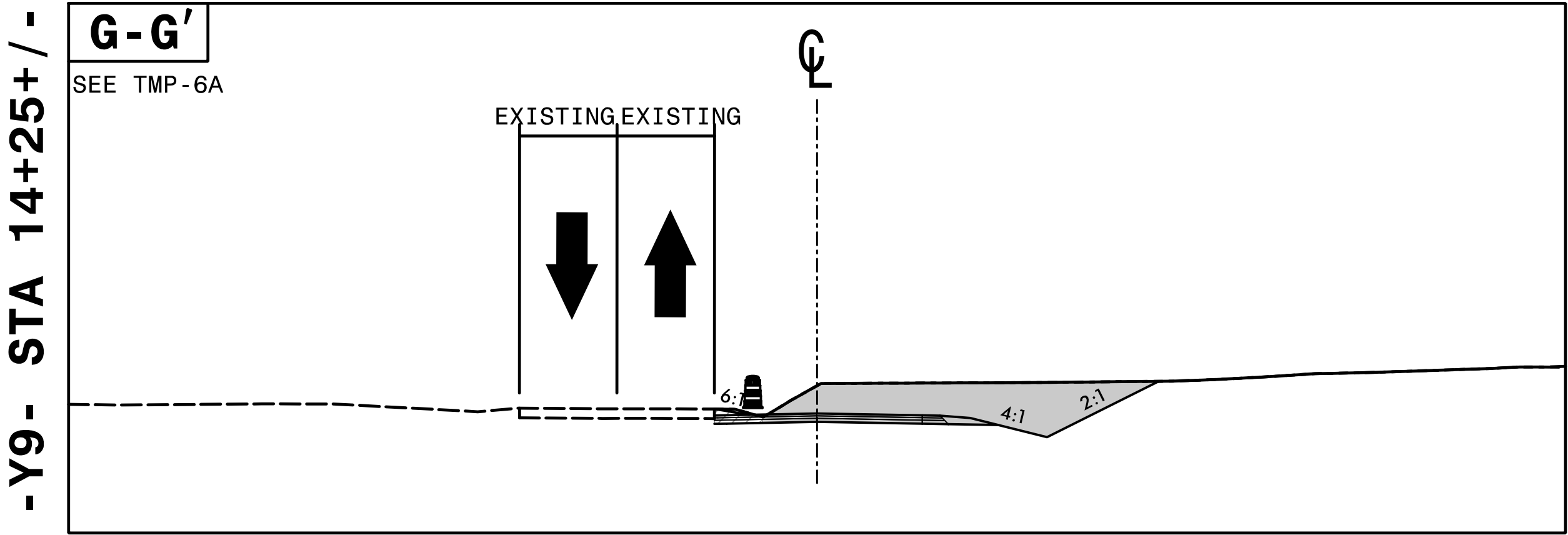


TRANSPORTATION
MANAGEMENT PLAN

- DRW1 -
OFFSITE DETOUR



* SHALLOW UNDERCUT: SEE GEOTECHNICAL REPORT FOR SHALLOW UNDERCUT AREAS. IF PROPOSED BACKFILL CANNOT BE DONE IN A DAY, THEN PROVIDE A 6:1 SLOPE UP TO THE EDGE AND ELEVATION OF EXISTING PAVEMENT, OR PROVIDE POSITIVE PROTECTION AGAINST DROP OFF IF THERE'S ENOUGH ROOM TO MAINTAIN 2 LANES OF TRAFFIC ON EXISTING PAVEMENT IF ALLOWED BY THE ENGINEER.



PHASING

NOTES:

REPLACE MARKINGS AND RETURN TRAFFIC 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 ALL RESIDENCES AND BUSINESSES 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, AND TEMPORARY DITCHES.

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

THE TERM RSD DENOTES "ROADWAY STANDARD DRAWINGS".

PHASE I

STEP 1: USING RSD 1101.01 (SHEET 3 OF 3), INSTALL WORK ZONE ADVANCE WARNING SIGNS ON -L-, -RPB-, -RPD-, -Y4-, -Y10-, AND -Y11-.

NOTE: PHASE I STEPS 2 THRU 5 SHALL BE DONE IN ORDER, BUT MAY BE DONE AT THE SAME TIME AS PHASE I STEPS 6 THRU 9. (PHASE I STEPS 2 THRU 5 ARE REQUIRED TO CONSTRUCT MEDIAN GRAVITY SEWER LINE.)

NOTE: SEE GEOTECH REPORT FOR SHALLOW UNDERCUT AREAS. IF PROPOSED BACKFILL CANNOT BE DONE IN A DAY, THEN PROVIDE A 6:1 SLOPE UP TO THE EDGE AND ELEVATION OF EXISTING PAVEMENT, OR IF ALLOWED BY THE ENGINEER, PROVIDE POSITIVE PROTECTION AGAINST DROP OFF IF THERE IS ENOUGH ROOM TO MAINTAIN 2 LANES OF TRAFFIC ON EXISTING PAVEMENT.

STEP 2: -L- (RT) FROM -Y7- TO -C4-: COMPLETE PHASE I STEPS 2.1 THRU 2.3.

STEP 2.1: USING RSD 1101.02 (SHEET 1 OF 19) AS NEEDED, WEDGE AND WIDEN -L- FROM STA 78+50+/- TO 86+21+/- . ALSO CONSTRUCT FROM THE RIGHT SIDE OF -L- TO -L- STA 82+42+/- (SEE TMP-4)

STEP 2.2 USING RSD 1101.02 (SHEET 1 OF 19) AS NEEDED, WEDGE AND WIDEN -L- (WITH TEMPORARY PAVEMENT AS LEVELING COURSE AS NEEDED TO MAINTAIN TRAFFIC) FROM STA 88+00+/- TO 100+50+/- . CONSTRUCT -Y8- AS MUCH AS POSSIBLE AWAY FROM TRAFFIC. (SEE TMP-4A AND 4B)

STEP 2.3 USING RSD 1101.02 (SHEET 1 OF 19), CONSTRUCT TEMPORARY PAVEMENT ON -L- (RT) FROM STA 100+77+/- TO 106+48+/- . AWAY FROM TRAFFIC, CONSTRUCT -C4- (RT) OF -L- AND TEMPORARY PAVEMENT 88 FT RADII FROM CENTER OF -C4- .

STEP 3: -Y8-: COMPLETE PHASE 1 STEP 2.2 FROM -L- STA 88+00+/- TO 88+88+/- , THEN COMPLETE PHASE I STEPS 3.1 AND 3.2 IN ORDER.

STEP 3.1: USING RSD 1101.02 (SHEET 1 OF 19), TIE IN -Y8- , PLACE TEMPORARY PAVEMENT MARKINGS AS SHOWN ON TMP-5A, AND SHIFT -Y8- TO PROPOSED PATTERN.

STEP 3.2: USING RSD 1101.02 (SHEET 1 OF 19) AND FLAGGERS, COMPLETE -L- (RT) FROM STA 86+21+/- TO STA 88+00+/- , RETAINING WALL, AND -DRW5- AS SHOWN ON TMP-5 AND 5A.

STEP 4: -L- (LT), -DRW8-, -Y8-, -Y9-, AND -Y10-: COMPLETE PHASE I STEP 3, THEN COMPLETE STEPS 4.1 THRU 4.4.

STEP 4.1: USING RSD 1101.02 (SHEET 1 OF 19), PLACE TEMPORARY PAVEMENT IN ISLAND AREA AT INTERSECTION OF -L- AND -Y10- , THEN PLACE TEMPORARY SIGNS AND PAVEMENT MARKINGS ON -L- AND -Y10- AS SHOWN ON TMP-6 THRU 6B AND SHIFT -L- TO TEMPORARY PATTERN.

STEP 4.2: COORDINATE WITH LOCAL RESIDENT AND BUSINESSES BETWEEN -DRW8- AND -Y10- , THEN USE RSD 1101.02 (SHEET 1 OF 19) AS NEEDED TO CONSTRUCT -L- (LT) BETWEEN STATION 78+50+/- TO 102+38+/- . USE GRAVEL AS NEEDED TO MAINTAIN DRIVEWAY ACCESS AS NEEDED. (SEE TMP-6 THRU 6B)

STEP 4.3: -DRW8-: USING FLAGGERS, CONSTRUCT -DRW8- AND U-TURN BULB ON -L- (LT) AS MUCH AS POSSIBLE. (SEE TMP-6)

STEP 4.4: -Y9-: USE RSD 1101.02 (SHEET 1 OF 19) TO CONSTRUCT -Y9- (RT) AS MUCH AS POSSIBLE. (SEE TMP-6A AND CUT SECTION G-G) THEN USE RSD 1101.02 (SHEET 1 OF 19) AND GRAVEL AS NEEDED AND SHIFT TRAFFIC TO NEW ALIGNMENT SHOWN ON TMP-6C.

STEP 5: GRAVITY SEWER IN -L- MEDIAN: COMPLETE PHASE I STEP 4, THEN COMPLETE STEPS 5.1 THRU 5.4

STEP 5.1: USING RSD 1101.02 (SHEET 1 OF 19), PLACE TEMPORARY PAVEMENT MARKINGS ON SOUTHBOUND LANES SHOWN ON TMP-7 THRU 7B AND SHIFT TRAFFIC TO TEMPORARY PATTERN. COORDINATE WITH FIRE DEPARTMENT BEFORE PLACING BARRIER. ADJUST LENGTH OF BARRIER AS NEEDED FOR FLAGGING OPERATIONS, OR CONSTRUCT STRETCH OF GRAVITY SEWER IN MEDIAN IN STAGES BEHIND BARRIER.

STEP 5.2: AWAY FROM TRAFFIC, CONSTRUCT SANITARY SEWER LINE AND DEEP PIPE AND DI (0908 AND 0922).

STEP 5.3: AWAY FROM TRAFFIC, REPAIR/RESTORE PAVEMENT FROM -L- STA 91+34+/- TO -L- STA 99+53+/- AS SHOWN IN TMP-7A AND TMP-7B

STEP 5.4: COORDINATE WITH PARCEL OWNER, THEN CLOSE -DRW6- TO TRAFFIC AS SHOWN ON TMP-7C. USING RSD 1101.03 (SHEET 8 OF 9), REMOVE PCB AND SHIFT TRAFFIC ON THE RIGHT SIDE OF -L- FROM -L- STA 90+17+/- TO 100+67+/- AND INSTALL PCB AS SHOWN ON TMP-7C AND TMP-7D. CONSTRUCT THE REMAINING SECTION OF THE SANITARY SEWER CROSSING FROM -L- TO -DRW6- .

STEP 5.5: USING RSD 1101.03 (SHEET 8 OF 9), REMOVE PCB AT -DRW6- AND INSTALL TEMPORARY PAVEMENT MARKING TO SHIFT TRAFFIC BACK TO ITS ORIGINAL STEP 5 PATTERN (SEE TMP-7A AND TMP-7B). REOPEN -DRW6- TO TRAFFIC. INSTALL PCB FROM -L- STA 90+17+/- TO 100+97+/- FOR FUTURE MEDIAN WORK.

STEP 6: -C1-: COMPLETE STEPS 6.1 AND 6.2.

STEP 6.1: INSTALL DETOUR SIGNS AND DEVICES AS SHOWN ON TMP-2K, AND CLOSE -DRW1- . AWAY FROM TRAFFIC, CONSTRUCT -DRW1- .

STEP 6.2: USING RSD 1101.02 (SHEETS 1, 10 AND 11 OF 19), WEDGE AND WIDEN -L- (WITH TEMPORARY WEDGING AS NEEDED TO MAINTAIN TRAFFIC) FROM BEGINNING OF PROJECT TO EXISTING BRIDGE OVER US 421, -C1-, -RPB-, AND -LPB- AS SHOWN ON TMP-8. RETIME TEMPORARY SIGNAL AS DIRECTED BY THE ENGINEER.

STEP 7: -C2-, -Y2-, -Y3-, -C3-, -Y5-, -Y6REV-, AND -Y7-: INSTALL TEMPORARY SIGNAL AT -Y1-/-LPD-/-RPD-. USING RSD 1101.02 (SHEET 1 AND 2 OF 19), WEDGE AND WIDEN -L- (WITH TEMPORARY WEDGING AS NEEDED TO MAINTAIN TRAFFIC) FROM EXISTING BRIDGE OVER US 421 TO STA 78+50+/- WHILE COMPLETING STEPS 7.1 THRU 7.10 SIMULTANEOUSLY AND IN ANY ORDER UNLESS STATED OTHERWISE.

STEP 7.1: -LPD-/-RPD-: USING RSD 1101.02 (SHEETS 10 AND 11 OF 19), WEDGE AND WIDEN -LPD- AND -RPD- WITH TEMPORARY WEDGING AS NEEDED TO MAINTAIN TRAFFIC. (SEE TMP-9)

STEP 7.2: -Y2-/-Y2A-: AWAY FROM TRAFFIC, CONSTRUCT -Y2- AND -Y2A- . USE TEMPORARY 2% GRADE AS NEEDED TO MAINTAIN EXISTING HUNTER ROAD ACCESS. (SEE TMP-9 AND TMP-20)

STEP 7.3: -DRW2-: CONSTRUCT -DRW2- AWAY FROM TRAFFIC AS MUCH AS POSSIBLE WHILE MAINTAINING ACCESS TO EXISTING DRIVEWAY. USE FLAGGERS TO PLACE TEMP PAVEMENT MARKINGS AS SHOWN ON TMP-28, SHIFT TRAFFIC TO PROPOSED DRIVEWAY, AND COMPLETE CURB CONSTRUCTION. (SEE TMP-9)

STEP 7.4: -Y3-: AWAY FROM TRAFFIC, CONSTRUCT NEW LOCATION OF -Y3- AS MUCH AS POSSIBLE. (SEE TMP-10)

STEP 7.5: COORDINATE WITH WILKES COUNTY SCHOOL TRANSPORTATION AND EMS. INSTALL AND COVER DETOUR SIGNS AND DEVICES AS SHOWN ON TMP-2A, TMP-2B, TMP-2C, AND TMP-2G. COMPLETE STEPS 7.6 THRU 7.9 IN ANY ORDER BUT MAY NOT BE DONE AT THE SAME TIME.

COMPLETE THE REQUIREMENTS OF PHASE I STEP 7.6 BETWEEN 6:00 PM FRIDAY TO 7:00 AM THE FOLLOWING MONDAY. WORK SHALL NOT BE CONDUCTED DURING ANY EVENT AT THE NORTH WILKESBORO SPEEDWAY.(SEE INTERMEDIATE CONTRACT TIME AND LIQUIDATED DAMAGES.)

STEP 7.6: 30" PIPE: UNCOVER DETOUR SIGNS AS SHOWN ON TMP-2A AND CLOSE -L- TO INSTALL 30" PIPE. CLOSE -Y4A- AND BEGIN CONSTRUCTING CUL-DE-SAC AND REMOVE EXISTING PAVEMENT. COMPLETE PIPE INSTALLATION AND OPEN -L- TO TRAFFIC. (SEE TMP-10)

COMPLETE THE REQUIREMENTS OF PHASE I STEP 7.7 BETWEEN APRIL 1, 2028 OR APRIL 1, 2029 AND THE FOLLOWING MAY 31ST OF THE SAME YEAR. (SEE INTERMEDIATE CONTRACT TIME AND LIQUIDATED DAMAGES.)

STEP 7.7: -Y4- CULVERT: UNCOVER DETOUR SIGNS AS SHOWN ON TMP-2C AND CLOSE -Y4- TO INSTALL 2@9'X9' RCBC. CONSTRUCT -Y4- AND -C3- (USE TEMPORARY WEDGING) AS MUCH AS POSSIBLE WITHOUT AFFECTING -L- . PLACE TEMPORARY PAVEMENT MARKINGS ON -Y4- AS SHOWN ON TMP-10 AND OPEN -Y4- TO TRAFFIC.

COMPLETE THE REQUIREMENTS OF PHASE I STEP 7.8 BETWEEN 6:00 PM FRIDAY TO 7:00 AM THE FOLLOWING MONDAY. WORK SHALL NOT BE CONDUCTED DURING ANY EVENT AT THE NORTH WILKESBORO SPEEDWAY. (SEE INTERMEDIATE CONTRACT TIME AND LIQUIDATED DAMAGES.)

STEP 7.8: 48" PIPE: UNCOVER DETOUR SIGNS AS SHOWN ON TMP-2B AND CLOSE -L- TO INSTALL 48" PIPE. CONSTRUCT -DRW11- . COMPLETE PIPE INSTALLATION AND OPEN -L- TO TRAFFIC. (SEE TMP-10)

NOTE: STEP 7.9 CANNOT BE DONE AT SAME TIME AS STEP 7.6 OR STEP 7.8

STEP 7.9: -Y6REV-: UNCOVER DETOUR SIGNS AS SHOWN ON TMP-2G AND CLOSE -Y6REV- AS SHOWN ON TMP-12, WHERE BROADWAY TOWER ROAD ACCESS IS MAINTAINED. CONSTRUCT -Y6REV- AND -DRW4 REV- AWAY FROM TRAFFIC. USING FLAGGERS AS NEEDED FOR DRIVEWAY ACCESS, WEDGE AND WIDEN -Y6REV- FROM STA 15+00+/- TO DRIVEWAY AS SHOWN ON TMP-12. AWAY FROM TRAFFIC, PLACE TEMPORARY PAVEMENT MARKINGS AS SHOWN ON TMP-21 AND OPEN TO TRAFFIC.

STEP 7.10:-Y7-: USING RSD 1101.02 (SHEET 1 OF 19), WEDGE AND WIDEN -Y7- AS MUCH AS POSSIBLE FROM STA 10+75+/- TO STA 14+00. (SEE TMP-13)

STEP 8: -L-, -C4-/-Y10-/-Y11-, -Y12-, -Y13-, -Y14-, AND -Y15-: USING RSD 1101.02 (SHEET 1 OF 19), WEDGE AND WIDEN -L- (WITH TEMPORARY WEDGING AS NEEDED TO MAINTAIN TRAFFIC) FROM -Y11- TO -DRW7- WHILE COMPLETING STEPS 8.1 THRU 8.8.

STEP 8.1: -C4-/-Y10-: CONSTRUCT -Y10- AWAY FROM TRAFFIC AS MUCH POSSIBLE. USING RSD 1101.02 (SHEET 1 OF 19), WEDGE AND WIDEN TIE-INS WHILE USING GRAVEL TO MAINTAIN DRIVEWAY ACCESS AS NEEDED.

STEP 8.2: -L- (RT) AT -C4-/-Y11-: USING RSD 1101.02 (SHEET 1 OF 19), WIDEN -L- (RT) FROM -C4- TO -L- STA 110+61+/- . AWAY FROM TRAFFIC, CONSTRUCT ALIGNED -Y11- AS SHOWN ON TMP-14.

STEP 8.3: -DRW10-, -DRW15-, AND -DRW7-: AWAY FROM TRAFFIC, CONSTRUCT -DRW7- AND -DRW10- AS MUCH AS POSSIBLE. COMPLETE -DRW7- AND -DRW10- AND SHIFT TRAFFIC ONTO IT BEFORE CONSTRUCTING -L- (LT) CURB AND GUTTER, SIDEWALK, AND HANDRAIL. USING FLAGGERS, CONSTRUCT -DRW15- . (SEE TMP-15, 16, 24, AND 25)

STEP 8.4: INSTALL AND COVER DETOUR SIGNS AND DEVICES AS SHOWN ON TMP-2D AND TMP-2I, THEN COMPLETE STEPS 8.5 AND 8.6 IN ANY ORDER BUT MAY NOT BE DONE AT THE SAME TIME.

STEP 8.5: -Y12-: UNCOVER DETOUR SIGNS AS SHOWN ON TMP-2I AND CLOSE -Y12- TO TRAFFIC AND DETOUR TO -Y13- TO CONSTRUCT -Y12- . COMPLETE -Y12- , PLACE TEMPORARY PAVEMENT MARKINGS AS SHOWN ON TMP-24, AND OPEN TO TRAFFIC. (SEE TMP-15)

STEP 8.6: -Y13-: USING RSD 1101.02 (SHEET 1 OF 19), CONSTRUCT -L- (RT) FROM -DRW7- TO STA 136+00+/- . UNCOVER DETOUR SIGNS SHOWN ON TMP-2D AND CLOSE -Y13- TO TRAFFIC AND DETOUR TO -Y12- . USING RSD 1101.02 (SHEET 1 OF 19), CONSTRUCT -L- FROM STA 136+00+/- TO 138+50+/- . AWAY FROM TRAFFIC, CONSTRUCT INSTALL 60" PIPE, PROPOSED RETAINING WALL NEXT TO -Y13-, AND COMPLETE -Y13- . COMPLETE -Y13- AND OPEN TO TRAFFIC. (SEE TMP-16)

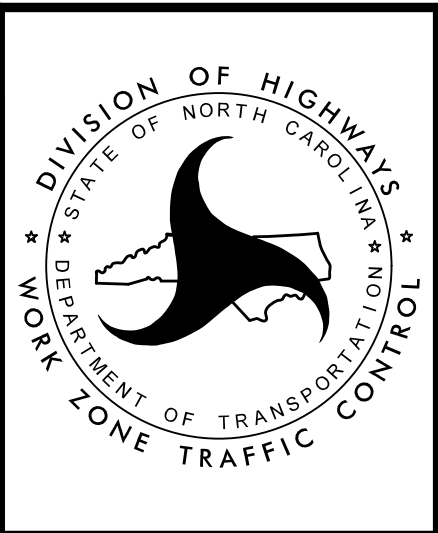
STEP 8.7: -Y14-: INSTALL AND COVER DETOUR SIGNS AND DEVICES AS SHOWN ON TMP-2E. UNCOVER DETOUR SIGNS AND CLOSE EXISTING HIGHLAND DRIVE, AND COMPLETE -Y14- NEW ALIGNMENT. USING RSD 1101.02 (SHEET 1 OF 19), CONSTRUCT -L- (LT) FROM STA 138+50 TO STA 151+98+/- AND USE TEMPORARY PAVEMENT AS TEMPORARY WEDGING AS NEEDED TO MAINTAIN TRAFFIC. SEE GEOTECH REPORT FOR ROCK BLASTING EXTENTS AND USE RSD 1101.06 TO STOP TRAFFIC AS NEEDED. (SEE GENERAL NOTES FOR TIME RESTRICTIONS) USING RSD 1101.02 (SHEET 1 OF 19), CONSTRUCT TEMPORARY PAVEMENT IN PROPOSED MEDIAN AS SHOWN ON TMP-17.

STEP 8.8: -Y15-: AWAY FROM TRAFFIC, CONSTRUCT -Y15- REALIGNMENT. USE RSD 1101.02 (SHEET 1 OF 19) TO INSTALL TEMPORARY STEEL PLATE FOR DRAINAGE STRUCTURE, THEN COVER WITH ASPHALT BEFORE OPENING UP TO LIVE TRAFFIC. (SEE TMP-17)

TRANSPORTATION
MANAGEMENT PLAN

PHASING

APPROVED:	DocuSigned by: <i>Helen Shyu</i> 0C1602A8D8E6A16E2
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PHASING

PHASE I (CONT.)

- STEP 9: YADKIN RIVER BRIDGE: COMPLETE STEPS 9.1 THRU 9.4 IN ORDER.
- STEP 9.1: USING RSD 1101.02 (SHEET 3 AND 7 OF 19), INSTALL TEMPORARY PAVEMENT MARKINGS ON -L- NORTHBOUND FROM -Y15- TO END OF PROJECT AND CLOSE OUTSIDE LANE, THEN WEDGE AND WIDEN -L- FROM -L- FROM STA 151+98+/- TO EXISTING BRIDGE (INCLUDING -Y16-). (SEE TMP-17 THRU 19)
- STEP 9.2: INSTALL TEMPORARY SIGNAL AT END OF PROJECT. USE DRUMS TO CLOSE OUTSIDE LEFT TURN LANE OF 2ND STREET ONTO NC 115. RECORD EXISTING PAVEMENT MARKINGS, THEN USING RSD 1101.02 (SHEET 3 AND 7 OF 19), INSTALL TEMPORARY PAVEMENT MARKINGS AT INTERSECTION AND ON -L- SOUTHBOUND FOR 2 LANE 2 WAY PATTERN ON BRIDGE AS SHOWN ON TMP-19. PLACE PEDESTRIAN BARRICADE AT INTERSECTION. USE RSD 1101.02 (SHEET 3 OF 19) TO PLACE PCB, THEN AWAY FROM TRAFFIC CONSTRUCT SIDEWALK ON BRIDGE. RETIME TEMPORARY SIGNAL AS DIRECTED BY THE ENGINEER.
- STEP 9.3: USING PEDESTRIAN BARRICADE AND TEMPORARY CURB RAMPS AS NEEDED TO MAINTAIN PEDESTRIAN ACCESS, REPLACE CURBS AND SIDEWALK AT INTERSECTION OF -L- AND 2ND ST. (SEE TMP-19)
- STEP 9.4: COMPLETE PHASE I STEPS 9.2 AND 9.3. REMOVE PCB ON BRIDGE AND RESTORE SOUTHBOUND PAVEMENT MARKINGS BETWEEN -Y16- AND END OF PROJECT. REMOVE TEMP SIGNAL, REMOVE DRUMS AT INTERSECTION, AND OPEN BOTH LANES OF -L- SOUTHBOUND TO TRAFFIC.

PHASE IA

NOTE: PHASE IA MAY BE DONE AT THE SAME TIME AS PHASE I UNLESS STATED OTHERWISE.

- STEP 1: -Y6REV-: COMPLETE PHASE I STEP 7.9. USING FLAGGERS AS NEEDED, COMPLETE -DRW4 REV-, -L- WIDENING, AND CONSTRUCT PROPOSED RETAINING WALL AS SHOWN ON TMP-21.
- STEP 2: -Y7-: COMPLETE PHASE I STEP 7.10. USING RSD 1101.02 (SHEET 1 OF 19), PLACE TEMPORARY PAVEMENT MARKINGS AS SHOWN ON TMP-22 AND SHIFT -Y7- TO TEMPORARY PATTERN. AWAY FROM TRAFFIC, COMPLETE -Y7-.
- STEP 3: -C4- AND -DRW9-: COMPLETE PHASE I STEP 8.1 AND -L- (RT) WIDENING IN PHASE I STEP 8.2. USING RSD 1101.02 (SHEET 1 AND 2 OF 19), PLACE TEMPORARY PAVEMENT MARKINGS AS SHOWN ON TMP-23 AND TMP-24, AND SHIFT -L- AND -Y10- INTO PHASE IA PATTERN. THEN USING RSD 1101.02 (SHEET 1 OF 19) AS NEEDED, REMOVE OLD US 421 EXISTING PAVEMENT AND CONSTRUCT PROPOSED CURB AND GUTTER FOR -C4- AS SHOWN ON TMP-23. USING RSD 1101.02 (SHEET2 OF 19) IF NEEDED, CONSTRUCT -Y11- TIE-IN TO -C4- AS MUCH AS POSSIBLE. (-Y11- REALIGNMENT IS NOT OPEN TO TRAFFIC YET.) AWAY FROM TRAFFIC, CONSTRUCT -DRW9- AS MUCH AS POSSIBLE.
- STEP 4: WALL #4: COMPLETE PHASE I STEP 8.3 (-DRW10-, -DRW15-, AND -DRW7-), PHASE I STEP 8.6 (-L- AND -Y13-, INCLUDING RETAINING WALL), AND -Y14- IN PHASE I STEP 8.7 (CONTRACTOR MAY CONTINUE WORKING ON -L- (LT)). USING RSD 1101.02 (SHEET 1 OF 19) AS NEEDED, PLACE TEMPORARY PAVEMENT MARKINGS ON -L- AND -Y14- AS SHOWN ON TMP-25 AND 26 (SEE PMP FOR ADDITIONAL -Y14- PAVEMENT MARKINGS). SHIFT TRAFFIC TO PHASE IA PATTERN AND OPEN -Y14-. USING RSD 1101.02 (SHEET 1 OF 19), PLACE ANCHORED PCB AS SHOWN ON TMP-25. AWAY FROM TRAFFIC, INSTALL TEMPORARY SHORING AND CONSTRUCT RETAINING WALL #4, THEN COMPLETE -L- (LT) AND USING RSD 1101.02 (SHEET 1 OF 19), REMOVE PCB.
- STEP 5: -Y15-: COMPLETE PHASE I STEP 8.8, THEN COMPLETE PHASE IA STEPS 5.1 AND 5.2 IN ORDER.
- STEP 5.1: INSTALL AND COVER DETOUR SIGNS AS SHOWN ON TMP-2F. COORDINATE WITH ARMORY BEFORE UNCOVERING DETOUR SIGNS AND CLOSING -Y15- TO THROUGH TRAFFIC.
- STEP 5.2: AWAY FROM TRAFFIC, REPLACE 66" PIPE, CONSTRUCT -Y15-, AND ARMORY CONCRETE DRIVEWAY. INSTALL TEMPORARY PAVEMENT MARKINGS ON -L- AND -Y15- INTERSECTION AS SHOWN ON TMP-26 AND SHIFT -Y15- TO PROPOSED ALIGNMENT. USING RSD 1101.02 (SHEET 1 AND 3 OF 19) AS NEEDED, CONSTRUCT -DRW12- AND -L- (RT) CURB AND GUTTER FROM -Y15- TO STA 151+98+/- . COMPLETE PIPE INSTALLATION AND OPEN -Y15- TO TRAFFIC.

PHASE II

NOTE: IF ALLOWED BY THE ENGINEER, PHASE II STEPS MAY BE DONE SIMULTANEOUSLY DONE AT THE SAME TIME AS PHASE I AND IA, UNLESS STATED OTHERWISE. CONTRACTOR SHALL PROVIDE TEMPORARY PAVEMENT MARKINGS FOR TRAFFIC SHIFT PER RSD TO TRANSITION NC 115 TRAFFIC FOR THE ENGINEER'S APPROVAL. IF NOT ALLOWED, THEN NC 115 TRAFFIC SHIFTS IN PHASE II STEPS SHALL BE DONE SIMULTANEOUSLY OR IN ORDER OF TRAFFIC FLOW.

- STEP 1: -C1-: COMPLETE PHASE I STEP 6. USING RSD 1101.02 (SHEET 14 AND 18 OF 19) AS NEEDED, PLACE TEMPORARY PAVEMENT MARKINGS ON -L-, -DRW1-, -RPD, AND -LPB- AS SHOWN ON TMP-27. SHIFT TRAFFIC TO PROPOSED PATTERN AND OPEN -DRW1-. USING RSD 1101.02 (SHEET 18 OF 19), COMPLETE MEDIAN ISLANDS, CURB AND GUTTER, AND REMOVE EXCESS PAVEMENT.
- STEP 2: -C2-/-Y1-/-LPD-/-RPD-, -Y2-, AND -Y3-: COMPLETE PHASE I STEPS 7.2 THRU 7.4. THEN COMPLETE PHASE II STEPS 2.1 AND 2.2 IN ORDER.
- STEP 2.1: -Y3- AND -DRW3-: USING RSD 1101.02 (SHEET 1 OF 19), PLACE TEMPORARY PAVEMENT MARKINGS ON -Y3- AS SHOWN ON TMP-29 AND SHIFT -Y3- TO PROPOSED PATTERN. USING RSD 1101.02 (SHEET 1 AND 2 OF 19), CONSTRUCT -DRW3-, REMOVE EXISTING PAVEMENT, AND COMPLETE -L- BETWEEN -Y2- AND -Y3-. (SEE TMP-28 AND TMP-29)

COMPLETE THE REQUIREMENTS OF PHASE II STEP 2.2 BETWEEN JUNE 15, 2028 OR JUNE 15, 2029 AND THE FOLLOWING AUG 15TH. (SEE INTERMEDIATE CONTRACT TIME AND LIQUIDATED DAMAGES.)

- STEP 2.2: -C2-: INSTALL TEMP SIGNAL. PLACE TEMPORARY PAVEMENT MARKINGS ON -L-, -LPD-, -RPD-, AND -Y2-/-Y2A- AS SHOWN ON TMP-28 AND 38. OPEN -Y2-/-Y2A- TO TRAFFIC AND CLOSE -Y1-. SHIFT -L-, -LPD, AND -RPD- TO PHASE II PATTERN. AWAY FROM TRAFFIC, COMPLETE -Y1-. USING RSD 1101.02 (SHEET 18 OF 19), PLACE -C2- PAVEMENT MARKINGS AS SHOWN ON TMP-39 AND SHIFT -Y1-, -LPD-, -RPD- TO PHASE III PATTERN AND BEGIN CONSTRUCTING MEDIAN ISLAND. OPEN -Y1- TO TRAFFIC.
- STEP 3: -C3-/-Y4-, -Y5-, AND -Y6REV-: COMPLETE PHASE I STEP 7.6 THRU 7.8, AND PHASE IA STEP 1. USING RSD 1101.02 (SHEET 1 AND 18 OF 19), PLACE TEMPORARY PAVEMENT MARKINGS ON -L- AND -Y4- AS SHOWN ON TMP-29 THRU 31. SHIFT -L- AND -Y4- TO PHASE II PATTERN AND BEGIN CONSTRUCTING MEDIAN ISLANDS AND CURB AND GUTTER WITH NARROW LANES AND FLAGGERS AS NEEDED.
- STEP 4: -Y7-, -Y8-, -Y9-, -C4-/-Y10-/-Y11-, AND -DRW9-: COMPLETE PHASE I STEPS 2 THRU 5, AND PHASE IA STEPS 2 AND 3. COMPLETE STEP 4.1, THEN STEPS 4.2 THRU 4.6 MAY BE DONE SIMULTANEOUSLY. STEP 4.7 MAY BE DONE SIMULTANEOUSLY AS 4.2 THRU 4.6, IF NOT IN CONFLICT.
- STEP 4.1: USING RSD 1101.02 (SHEET 1 AND 18 OF 19), PLACE TEMPORARY PAVEMENT MARKINGS ON -L-, -Y7-, -Y8-, -Y9-, -Y10-, AND -C4- AS SHOWN ON TMP-31 THRU 34. SHIFT -L- AND -C4- TO PHASE II PATTERN.
- STEP 4.2: USING FLAGGERS, MAINTAIN FIRE STATION ACCESS WHILE CONSTRUCTING EMERGENCY CROSSING IN -L- MEDIAN. (SEE TMP-33)
- STEP 4.3: OPEN -DRW9-, REMOVE OLD PAVEMENT, AND USE NARROW LANES AND RSD 1101.02 (SHEET 1 OF 19) TO COMPLETE -L- BETWEEN -C4- AND -DRW10-. (SEE TMP-32)
- STEP 4.4: USING RSD 1101.02 (SHEET 18 OF 19), COMPLETE -C4- AND -L- (RT) CURB AND SIDEWALK BETWEEN -L- STA 100+60+/- TO -Y11-
- STEP 4.5: USING NARROW LANES AND FLAGGERS AS NEEDED, CONSTRUCT MEDIAN ISLANDS AND CURB AND GUTTER BETWEEN -Y7- AND -DRW9-, EXCEPT BETWEEN -L- STA 98+91 +/- TO -C4-.

PHASE II (CONT.)

- STEP 5: -DRW10-, -Y12-, -Y13-, -Y14-, AND -Y15-: COMPLETE PHASE I STEP 7 AND 8 AND PHASE IA STEPS 6 AND 7. USING RSD 1101.02 (SHEET 1 OF 19), PLACE TEMPORARY PAVEMENT MARKINGS ON -L-, -Y12-, -Y13-, AND -Y15- AS SHOWN ON TMP-35 THRU 37. SHIFT -L- TO PHASE II PATTERN. USING RSD 1101.02 (SHEET 1 OF 19), WEDGE AND WIDEN -L- (RT) BETWEEN STA 140+60+/- TO -Y15-. USING NARROW LANES AND FLAGGERS AS NEEDED, CONSTRUCT MEDIAN ISLAND AND CURB AND GUTTERS BETWEEN -DRW9- AND -Y15-.

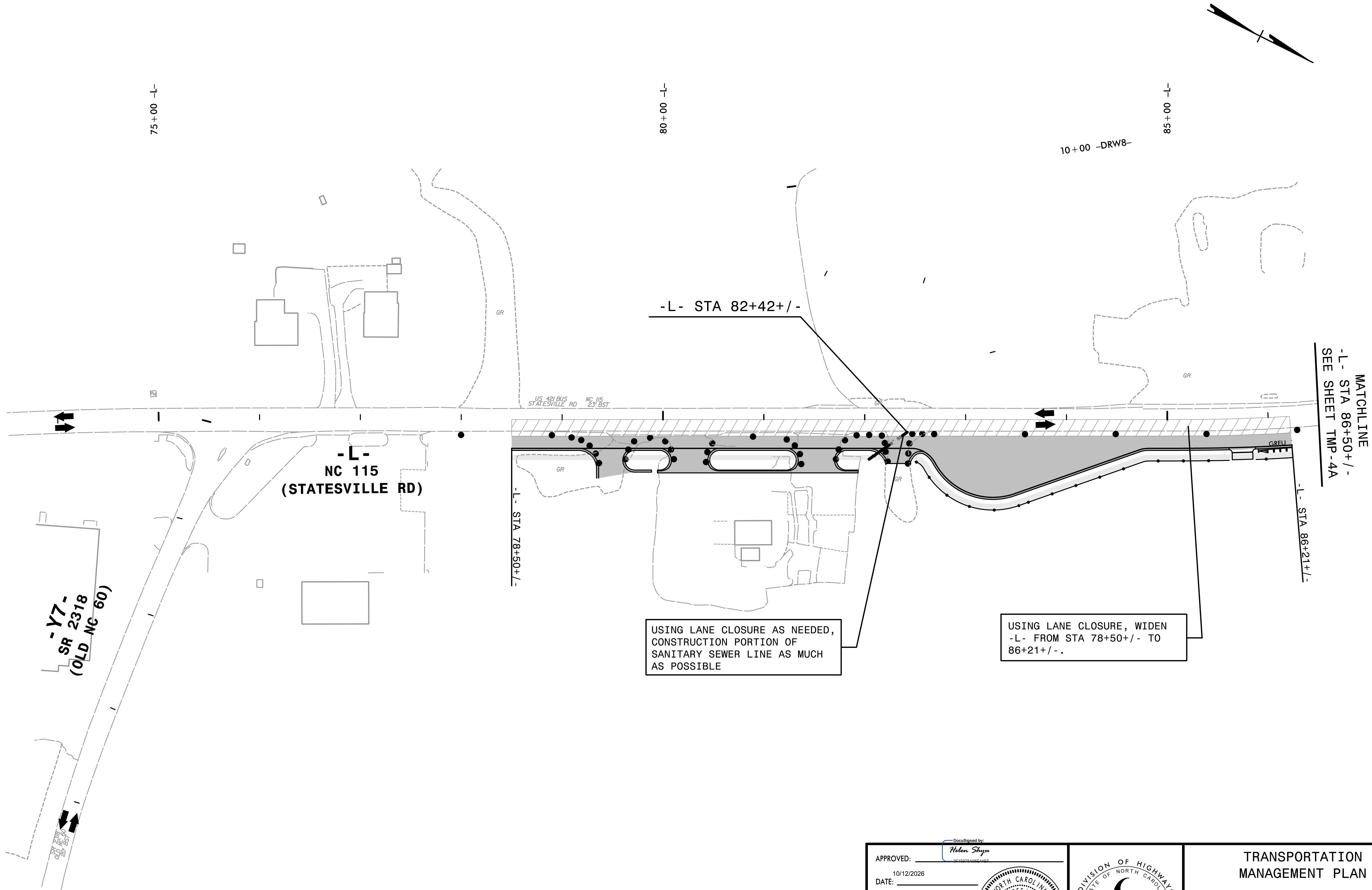
PHASE III

- STEP 1: -C4-: COMPLETE PHASE II STEP 4. USING RSD 1101.02 (SHEET 1 OF 19), COMPLETE -Y11- TIE IN. USING RSD 1101.02 (SHEET 1 AND 18 OF 19), PLACE TEMPORARY PAVEMENT MARKINGS ON -L- AND -Y11-, AS SHOWN ON TMP-40 AND 41. SHIFT TRAFFIC TO TEMPORARY PATTERN AND OPEN -Y11- TO TRAFFIC. USING RSD 1101.02 (SHEET 18 OF 19), COMPLETE MEDIAN ISLANDS, CURB AND GUTTER, AND REMOVE EXCESS PAVEMENT.
- STEP 2: -L- BETWEEN -Y14- AND -Y15-: COMPLETE PHASE II STEP 4: COMPLETE MEDIAN CURB AND GUTTER WITH NARROW LANES AND FLAGGERS.

PHASE IV

- STEP 1: COMPLETE ALL REMAINING WORK.
- USING RSD 1101.02 (SHEETS 1 AND 18 OF 19), PLACE FINAL LAYER OF SURFACE AND FINAL PAVEMENT MARKINGS AND MARKERS.
- STEP 2: REMOVE ALL TRAFFIC CONTROL DEVICES.

PROJ. REFERENCE NO.	SHEET NO.
R-5759	TMP-4



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7/15/2026

HNTB

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APPROVED: _____
DATE: 10/12/2026

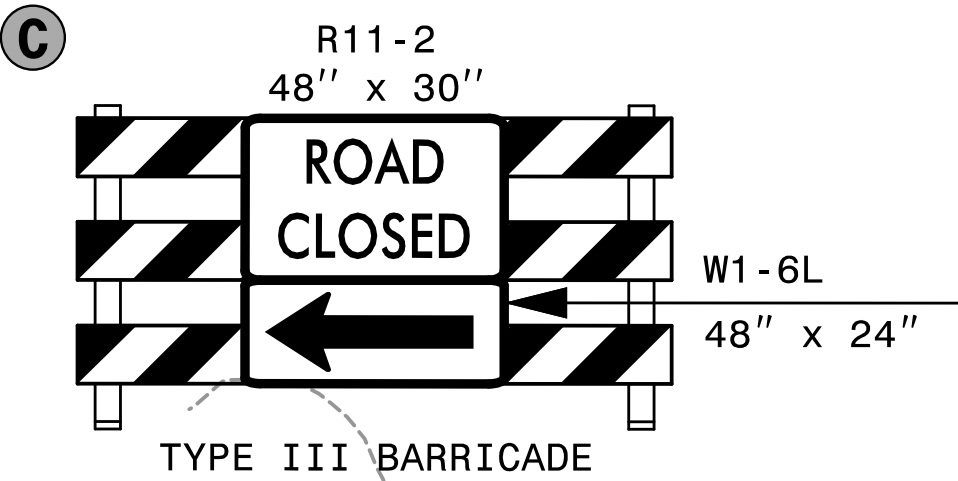
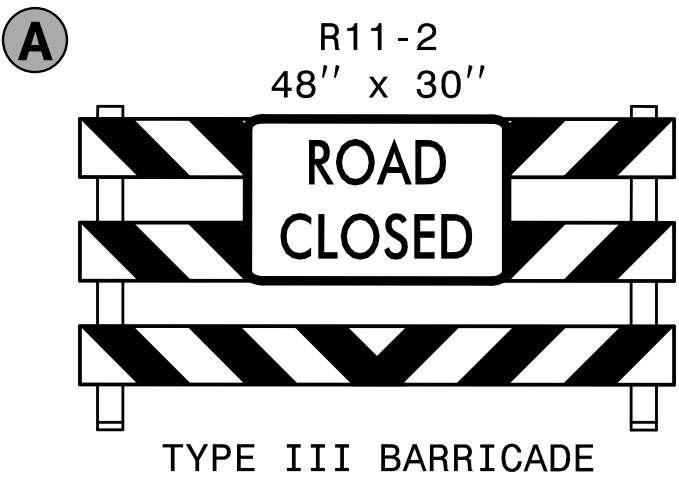
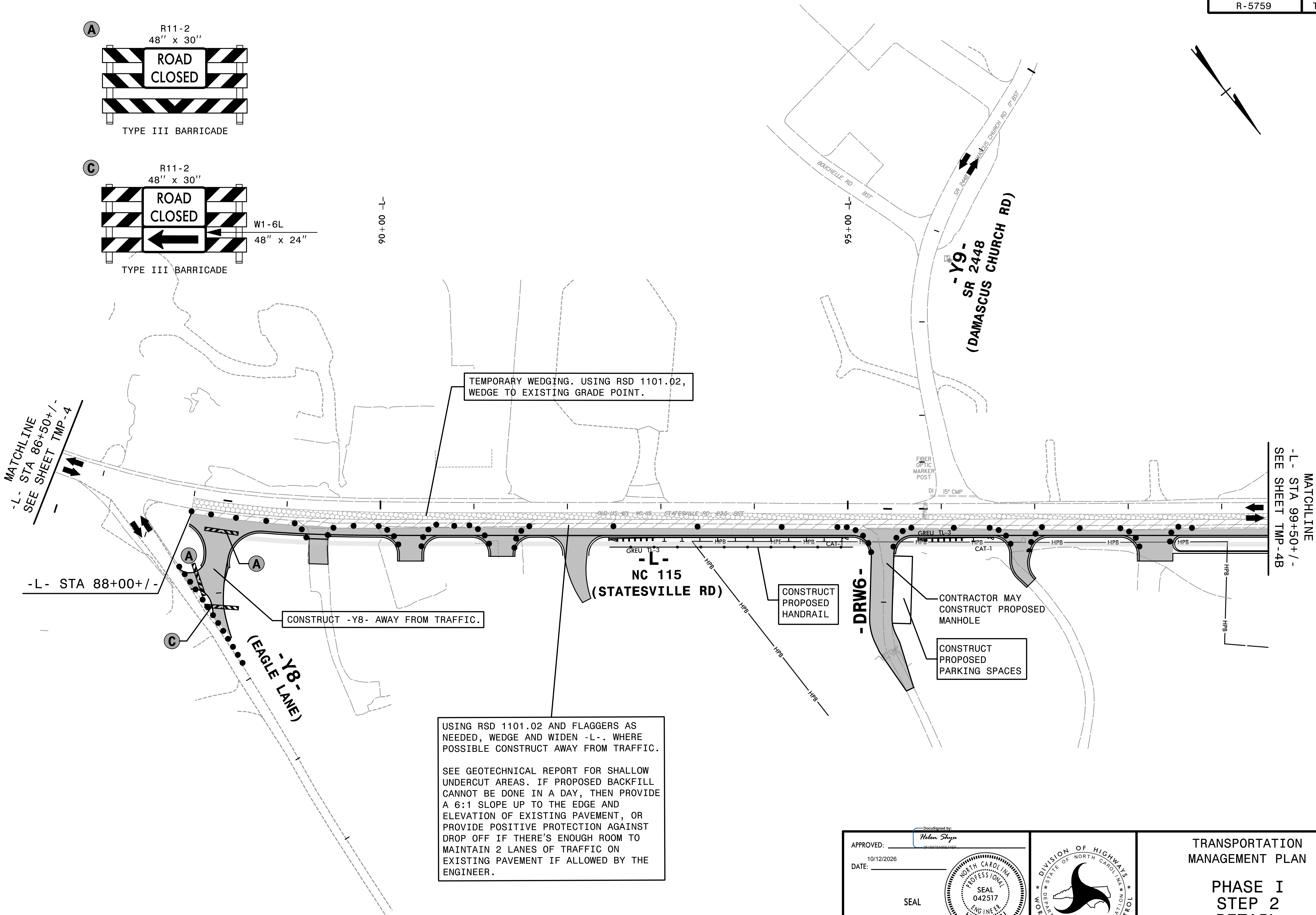
SEAL

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TRANSPORTATION
MANAGEMENT PLAN

PHASE I
STEP 2
DETAIL



TEMPORARY WEDGING. USING RSD 1101.02,
WEDGE TO EXISTING GRADE POINT.

CONSTRUCT -Y8- AWAY FROM TRAFFIC.

USING RSD 1101.02 AND FLAGGERS AS
NEEDED, WEDGE AND WIDEN -L-. WHERE
POSSIBLE CONSTRUCT AWAY FROM TRAFFIC.

SEE GEOTECHNICAL REPORT FOR SHALLOW
UNDERCUT AREAS. IF PROPOSED BACKFILL
CANNOT BE DONE IN A DAY, THEN PROVIDE
A 6:1 SLOPE UP TO THE EDGE AND
ELEVATION OF EXISTING PAVEMENT, OR
PROVIDE POSITIVE PROTECTION AGAINST
DROP OFF IF THERE'S ENOUGH ROOM TO
MAINTAIN 2 LANES OF TRAFFIC ON
EXISTING PAVEMENT IF ALLOWED BY THE
ENGINEER.

CONSTRUCT
PROPOSED
HANDRAIL

CONTRACTOR MAY
CONSTRUCT PROPOSED
MANHOLE

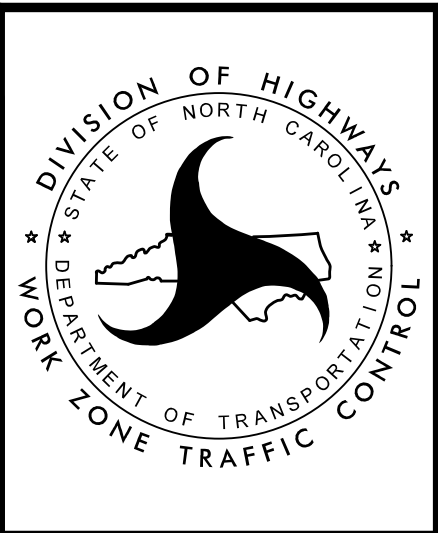
CONSTRUCT
PROPOSED
PARKING SPACES

APPROVED: _____

DATE: 10/12/2026

SEAL

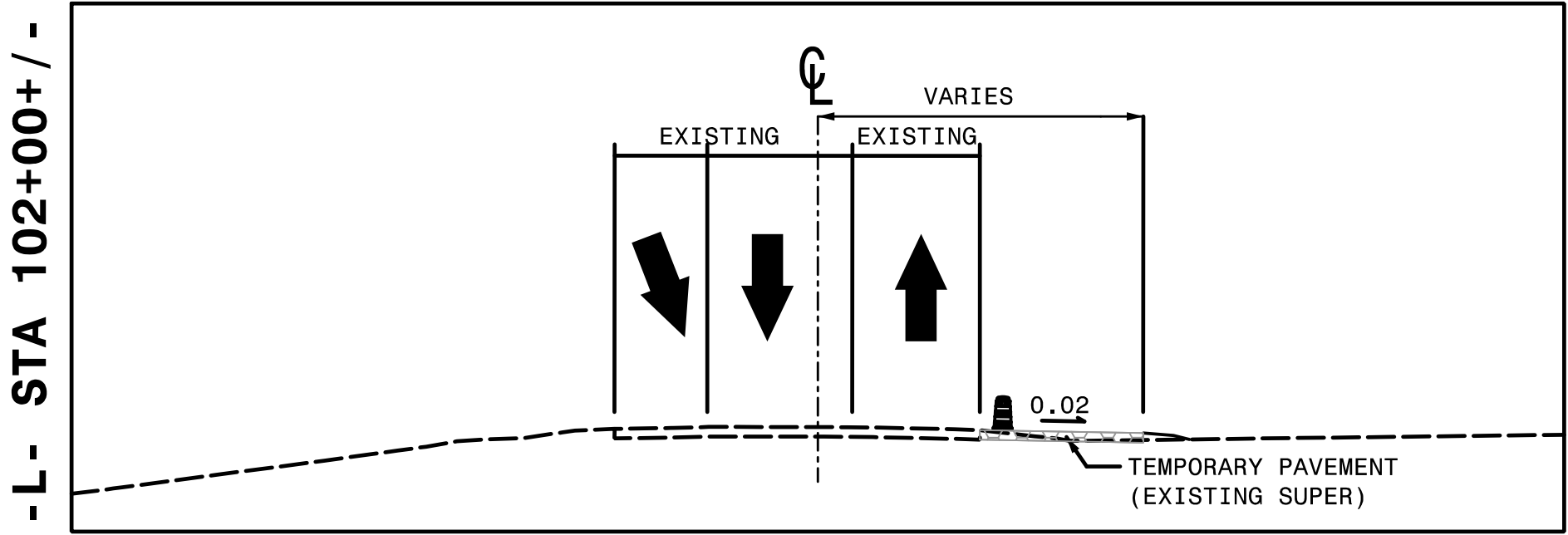
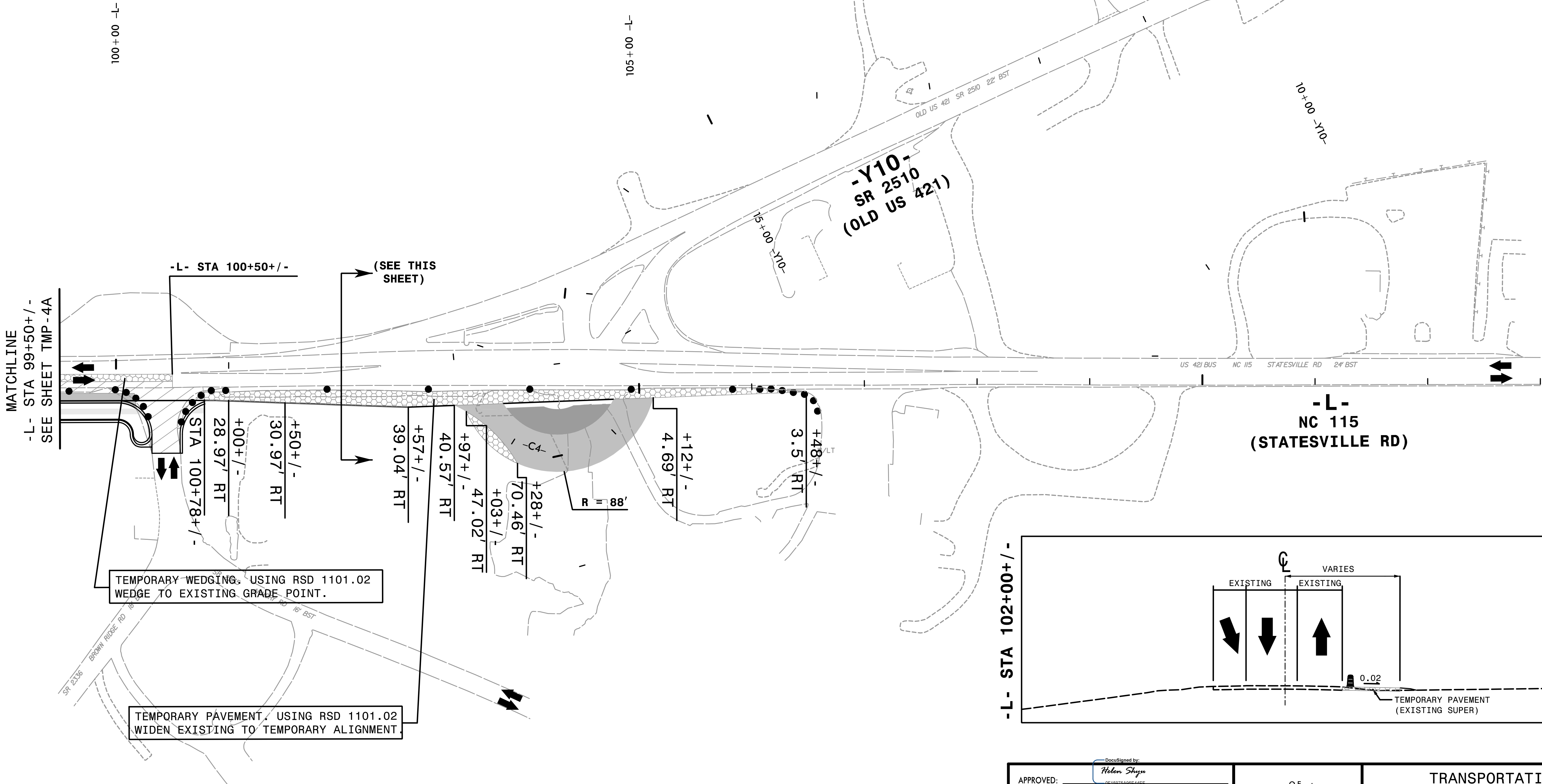
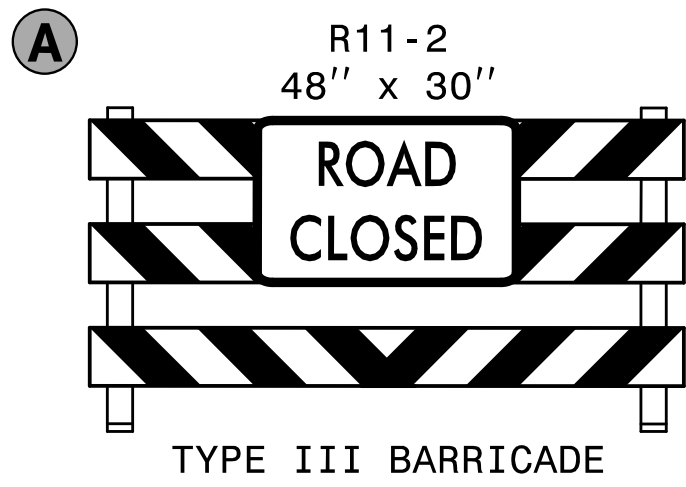
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TRANSPORTATION
MANAGEMENT PLAN

PHASE I
STEP 2
DETAIL

PROJ. REFERENCE NO.	SHEET NO.
R-5759	TMP-4B



2:33:03 PM
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7/15/2026

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4000 Center at North Hills St.
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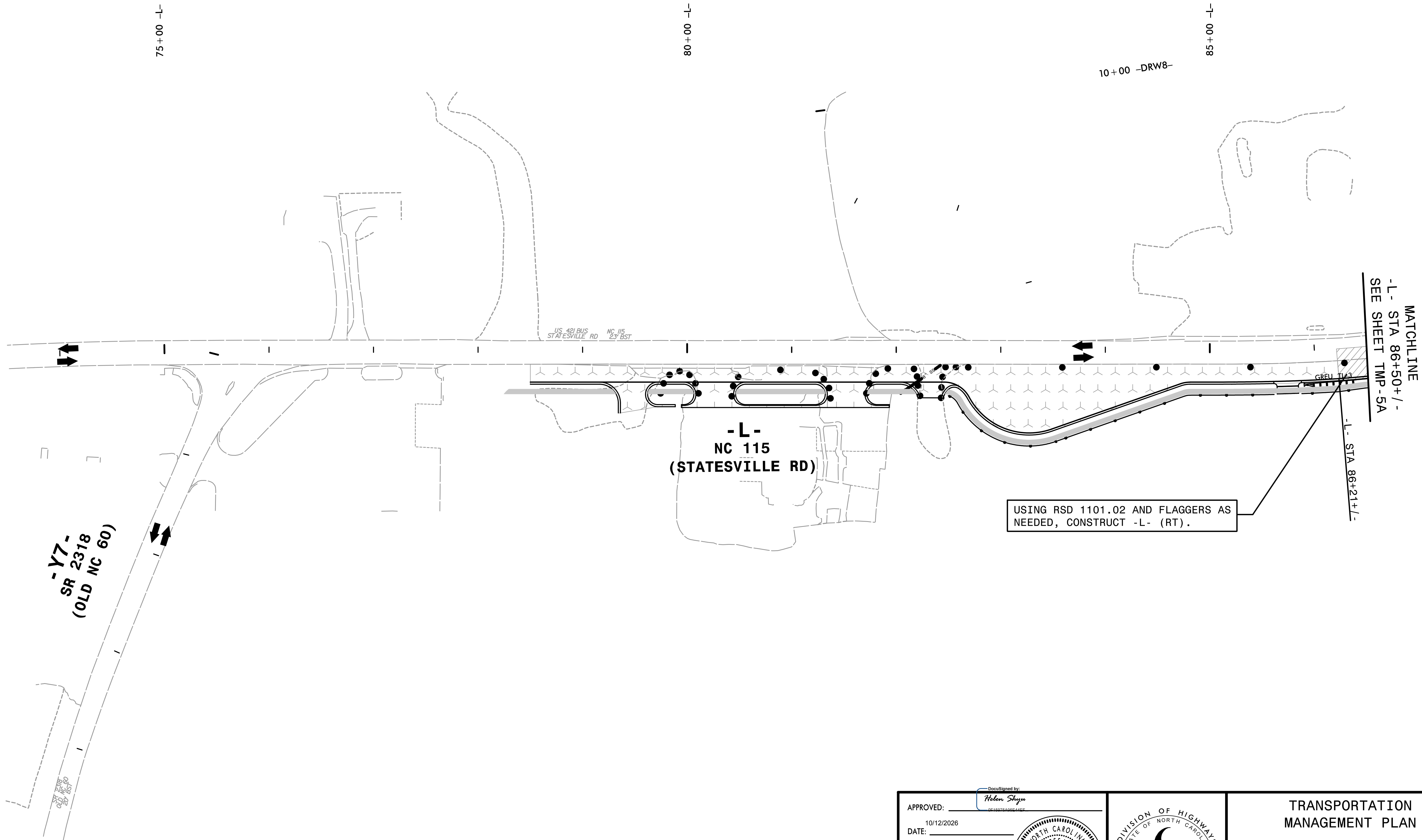
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Seal of the North Carolina Department of Transportation, Division of Highways, State of North Carolina.

TRANSPORTATION
MANAGEMENT PLAN

PHASE I
STEP 2
DETAIL

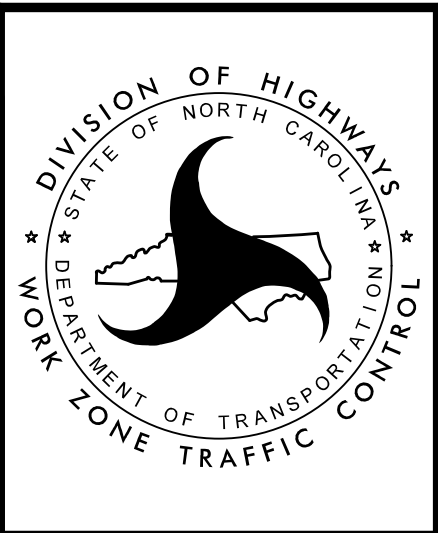
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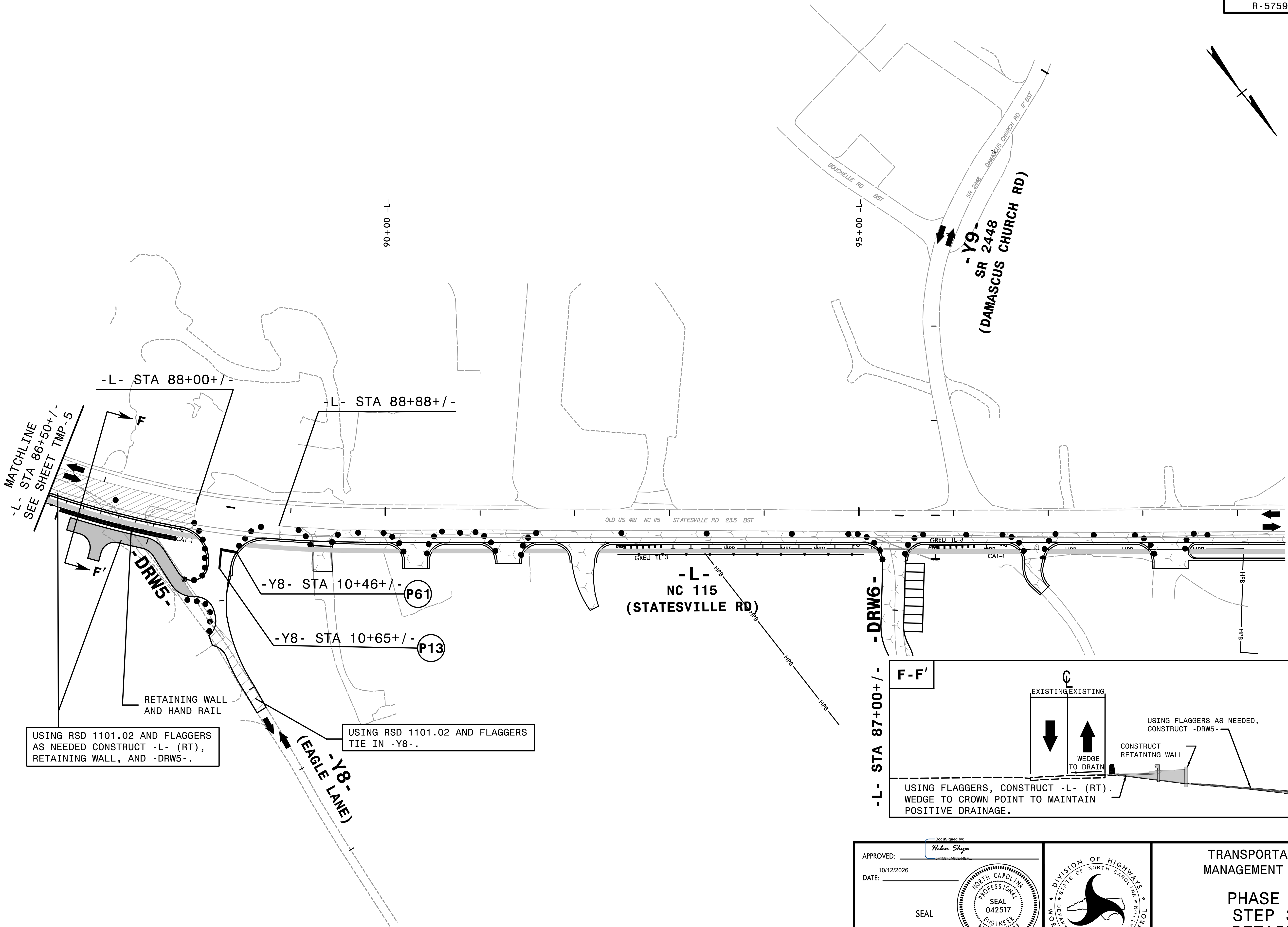
HNTB HNTB NORTH CAROLINA, P.C.
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APPROVED: _____	DocuSigned by: <i>Helen Shyu</i> 0C1607A8D8E416C
DATE: 10/12/2026	
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TRANSPORTATION
MANAGEMENT PLAN

PHASE I
STEP 3
DETAIL



MATCHLINE
-L- STA 86+50+/-
SEE SHEET TMP-5

-L- STA 88+00+/-

-L- STA 88+88+/-

-Y8- STA 10+46+/-

P61

-Y8- STA 10+65+/-

P13

RETAINING WALL
AND HAND RAIL

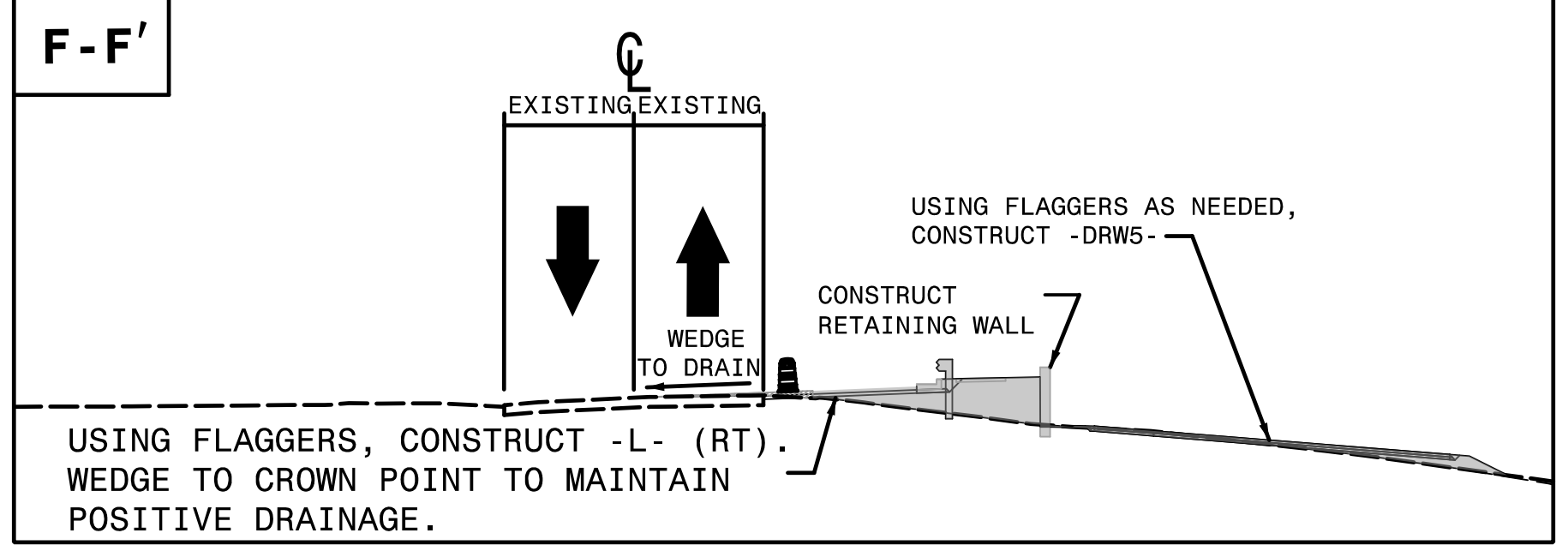
USING RSD 1101.02 AND FLAGGERS
AS NEEDED CONSTRUCT -L- (RT),
RETAINING WALL, AND -DRW5-.

USING RSD 1101.02 AND FLAGGERS
TIE IN -Y8-.

(EAGLE LANE)

-DRW6-

-L- STA 87+00+/-



2:33:00 PM
\\TC\N\R-5759.fc\ROAD\0.dgn
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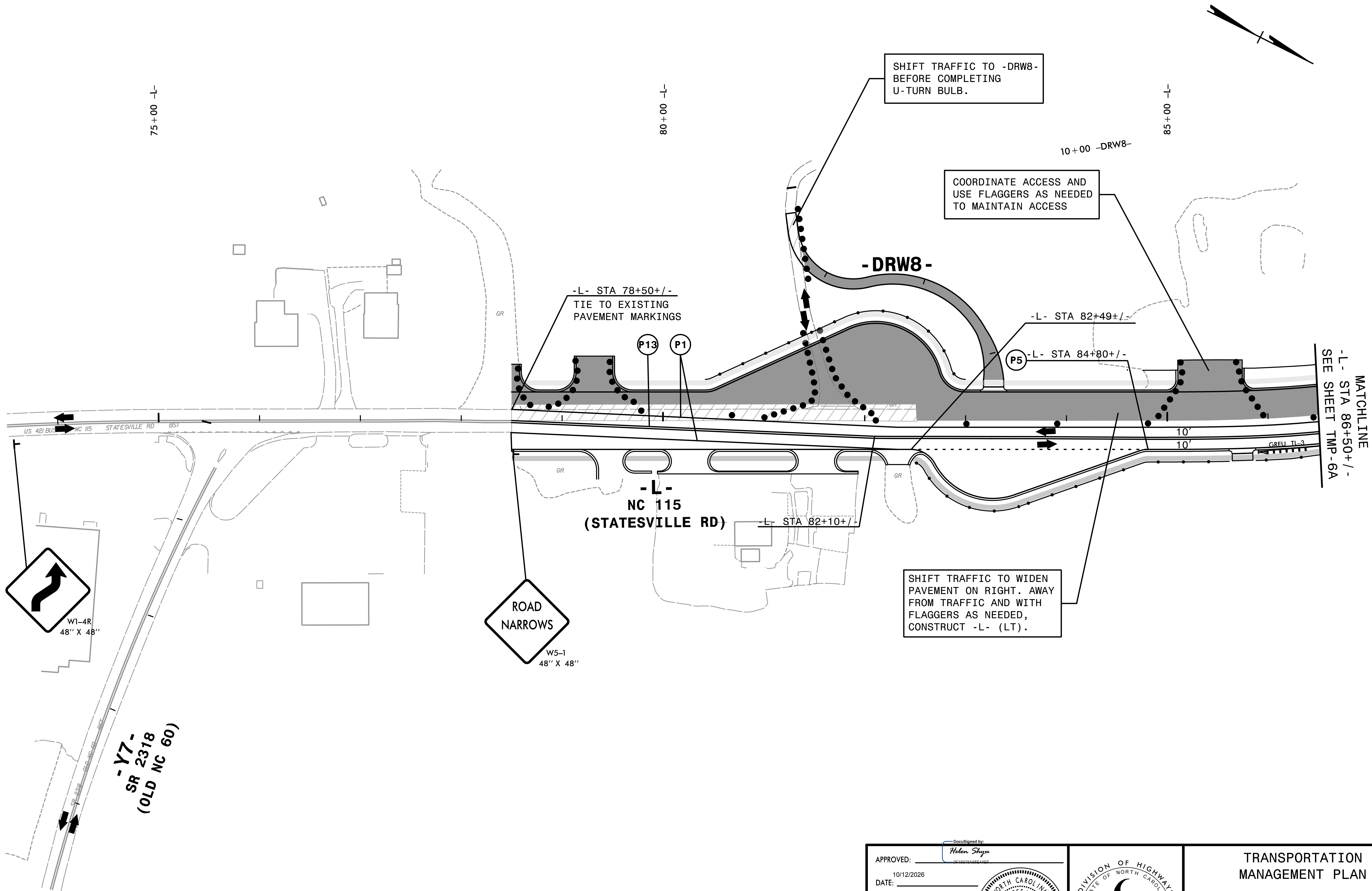
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TRANSPORTATION
MANAGEMENT PLAN

PHASE I
STEP 3
DETAIL

PROJ. REFERENCE NO.	SHEET NO.
R-5759	TMP-6



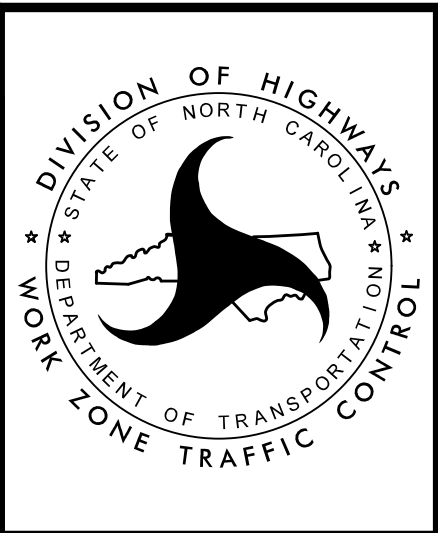
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7/15/2026

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DATE: 10/12/2026

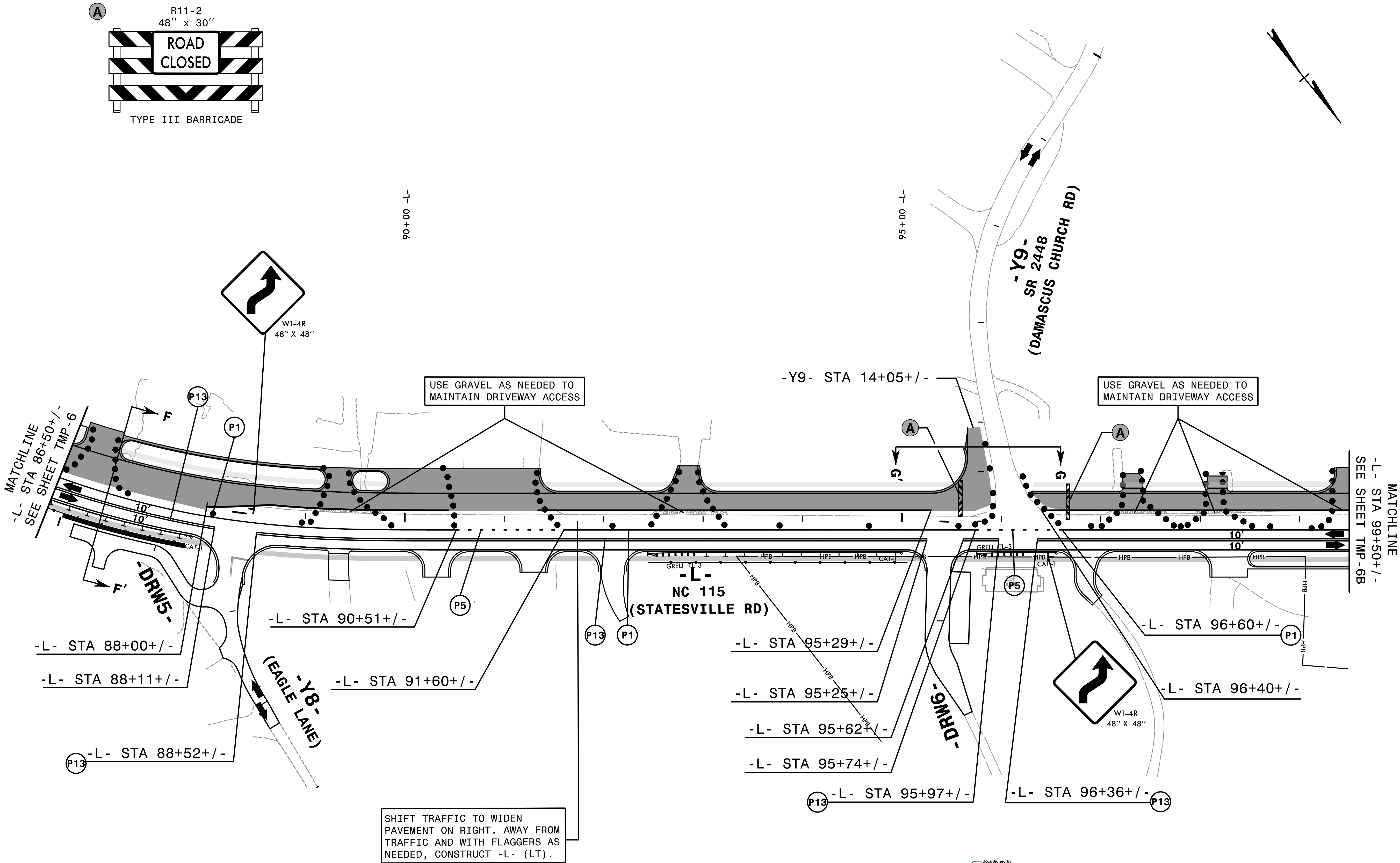
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TRANSPORTATION
MANAGEMENT PLAN

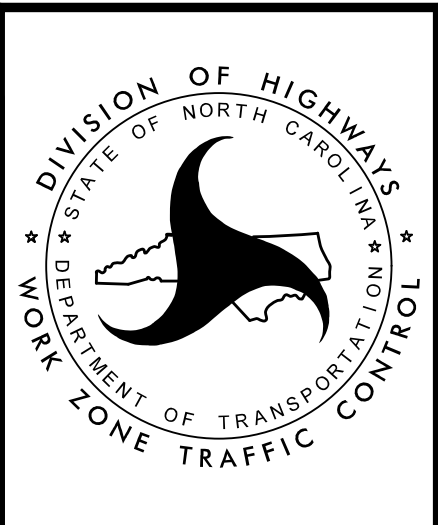
PHASE I
STEP 4
DETAIL



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7/5/2026

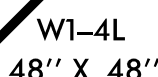
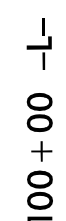
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Suite 500
Raleigh, North Carolina 27609
NC License No: C-1554

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TRANSPORTATION
MANAGEMENT PLAN

PHASE I
STEP 4
DETAIL



SHIFT TRAFFIC TO WIDEN PAVEMENT ON RIGHT. AWAY FROM TRAFFIC AND WITH FLAGGERS AS NEEDED, CONSTRUCT -L-(LT).

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DocuSigned by:
Helen Shyu
161070162.0000000000

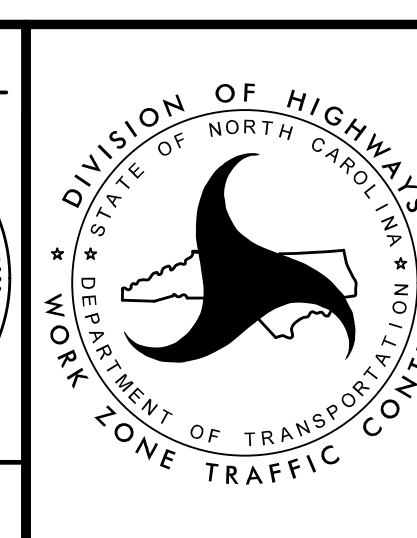
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10/12/2026

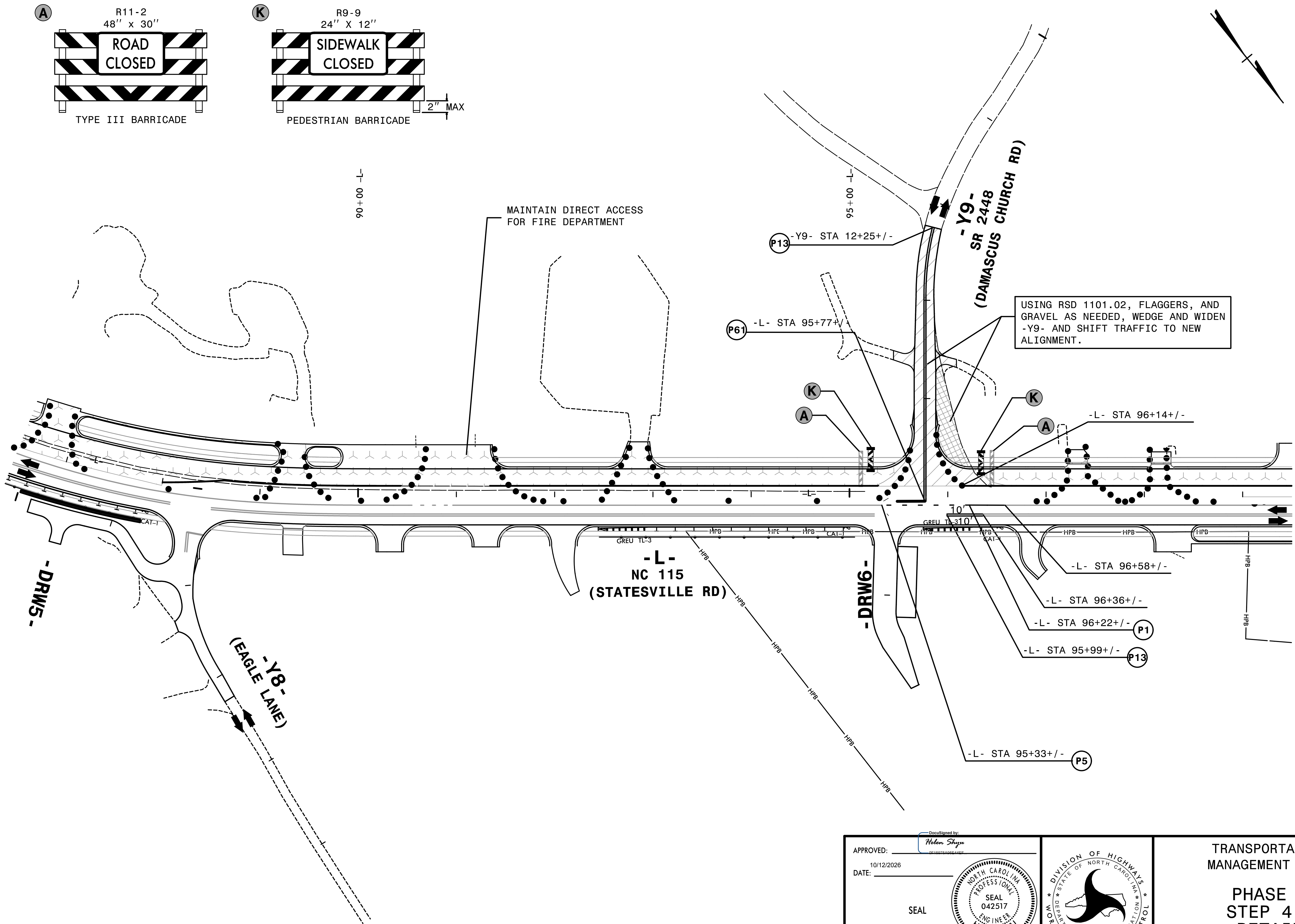
DATE: _____

SEAL

A circular professional engineer seal for the State of North Carolina. The outer ring contains the text "NORTH CAROLINA" at the top and "PROFESSIONAL" at the bottom. Inside the ring, the word "SEAL" is at the top, followed by the license number "042517" in the center. Below the number, it says "ENGINEER" and the name "HELEN SHYU" at the bottom.

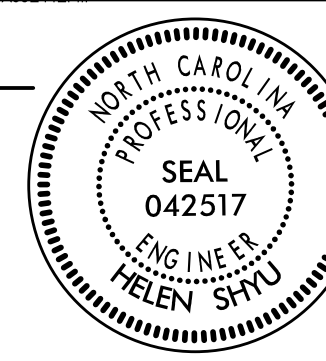
TRANSPORTATION
MANAGEMENT PLAN

PHASE I STEP 4 DETAIL



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7/15/2026

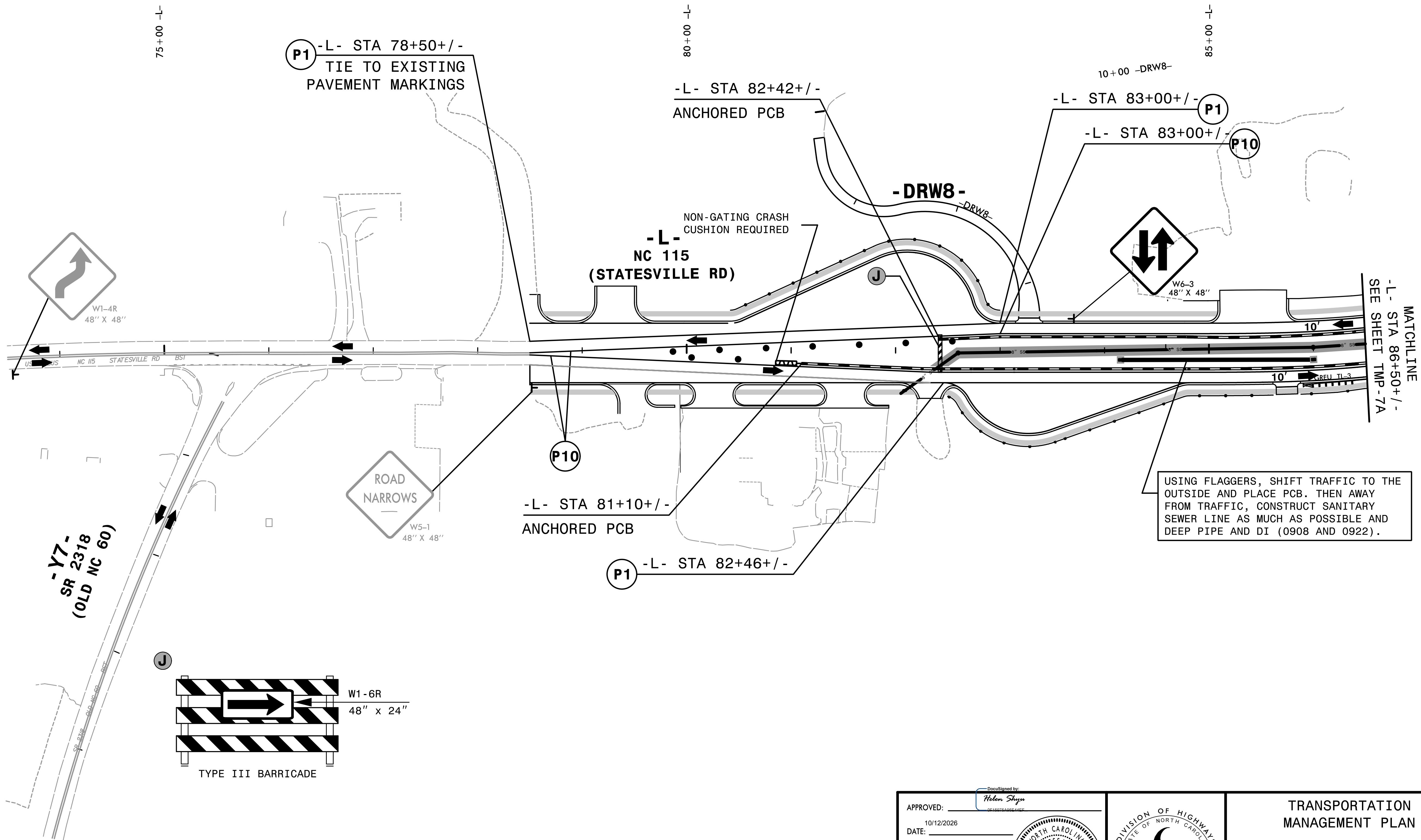
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4000 Center at North Hills St.
Suite 500
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PHASE I
STEP 4.4
DETAIL



SEE SIGNING PLAN AND INSTALL RELEVANT PERMANENT SIGNS.

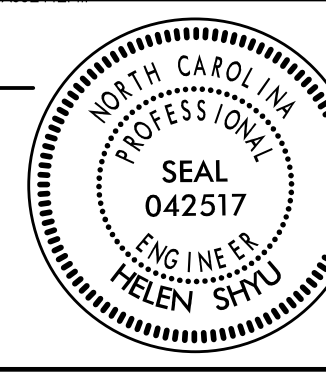
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7/15/2026

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4000 Center at North Hills St.
Suite 500
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NC License No: C-1554

APPROVED: 
DATE: 10/12/2026

SEAL

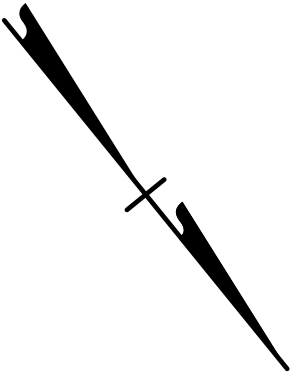


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TRANSPORTATION
MANAGEMENT PLAN

PHASE I
STEP 5
DETAIL



APPROVED: _____
(Signature)
DR-10079-A-RING-F&E

10/12/2026
DATE: _____

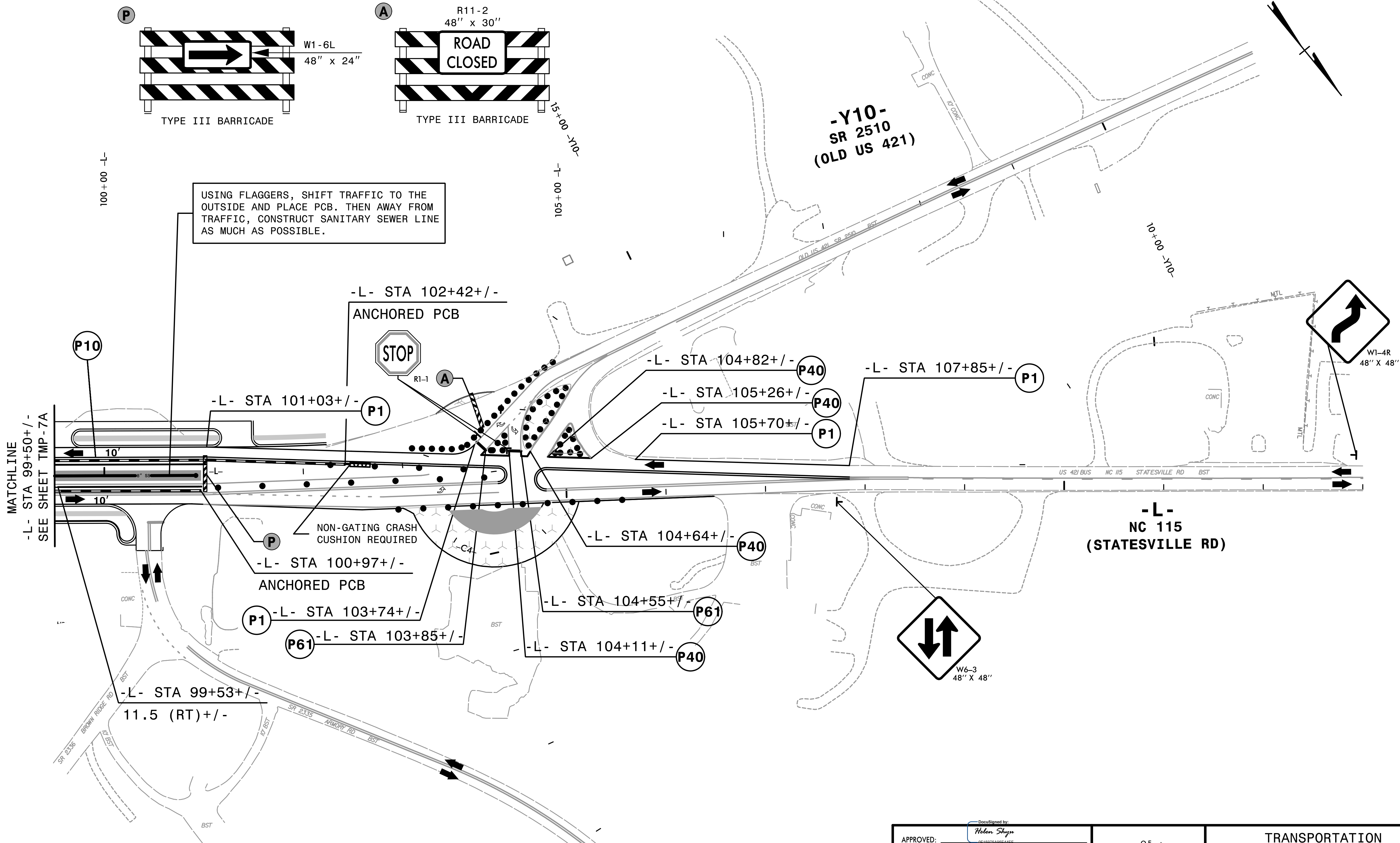
SEAL



A circular professional engineer seal for the State of North Carolina. The outer ring contains the text "NORTH CAROLINA" at the top and "ENGINEER" at the bottom. Inside the ring, the word "PROFESSIONAL" is curved along the top inner edge, and "HELEN SKYY" is curved along the bottom inner edge. In the center of the seal, the word "SEAL" is positioned above the license number "042517".

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SEE SIGNING PLAN AND INSTALL RELEVANT PERMANENT SIGNS.

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8/27/2026

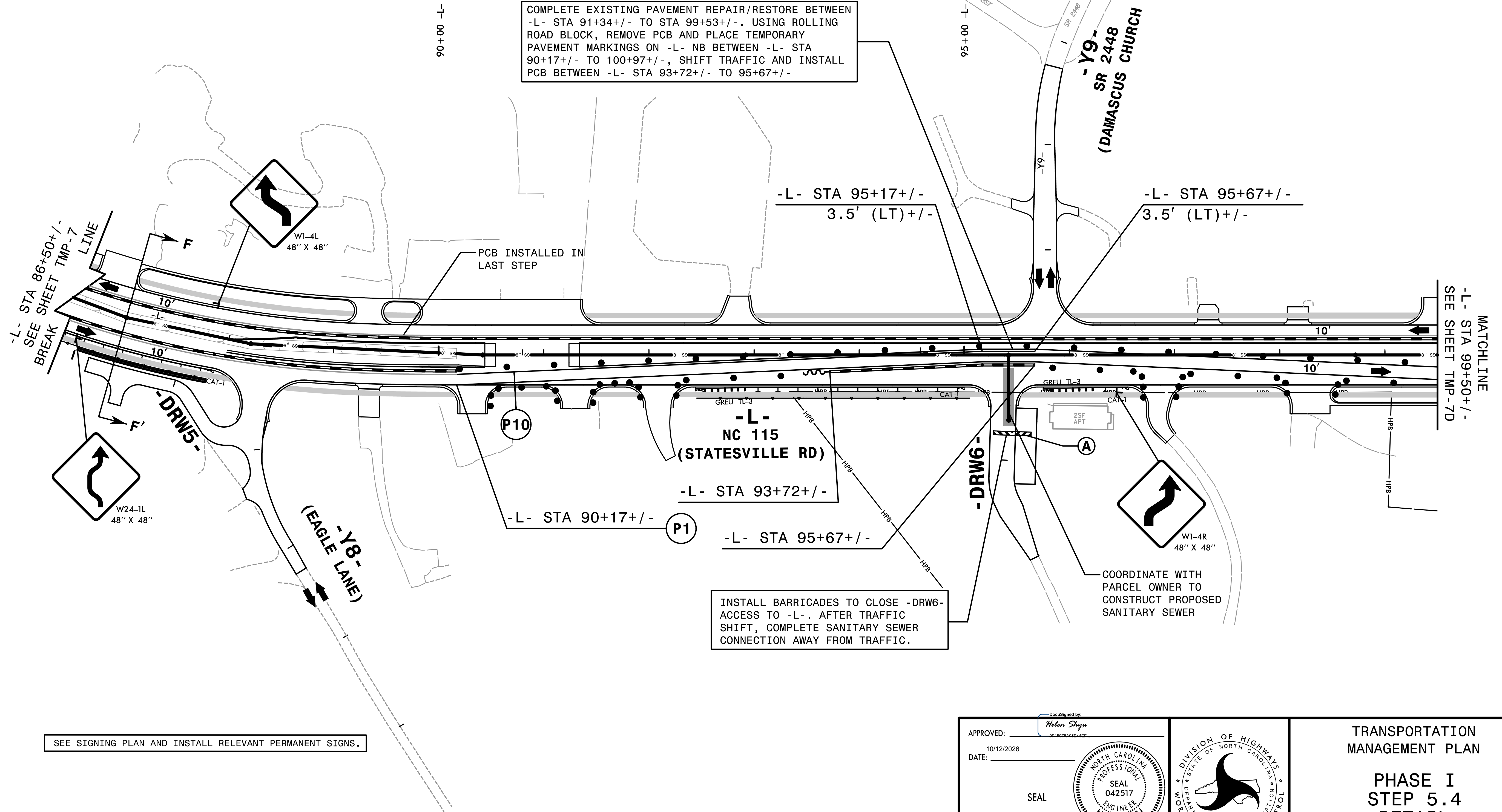
HNTB HNTB NORTH CAROLINA, P.C.
4000 Center at North Hills St.
Suite 500
Raleigh, North Carolina 27609
NC License No: C-1554

APPROVED: *Helen Shyu*
DATE: 10/12/2026
SEAL
NORTH CAROLINA
PROFESSIONAL
SEAL
042517
ENGINEER
HELEN SHYU
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TRANSPORTATION
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PHASE I
STEP 5
DETAIL



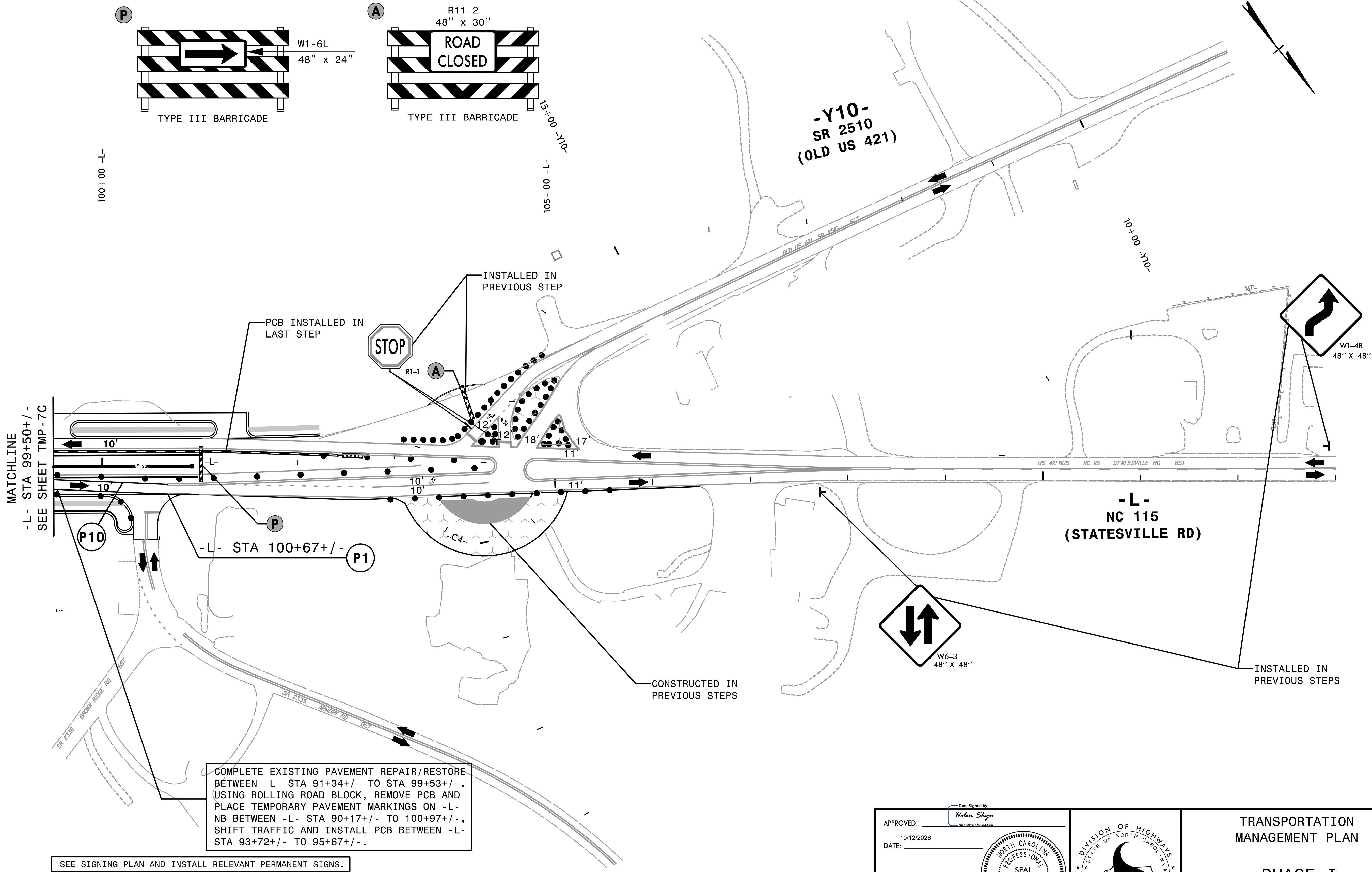
INSTALL BARRICADES TO CLOSE -DRW6-
ACCESS TO -L-. AFTER TRAFFIC
SHIFT, COMPLETE SANITARY SEWER
CONNECTION AWAY FROM TRAFFIC.

— COORDINATE WITH
PARCEL OWNER TO
CONSTRUCT PROPOSED
SANITARY SEWER

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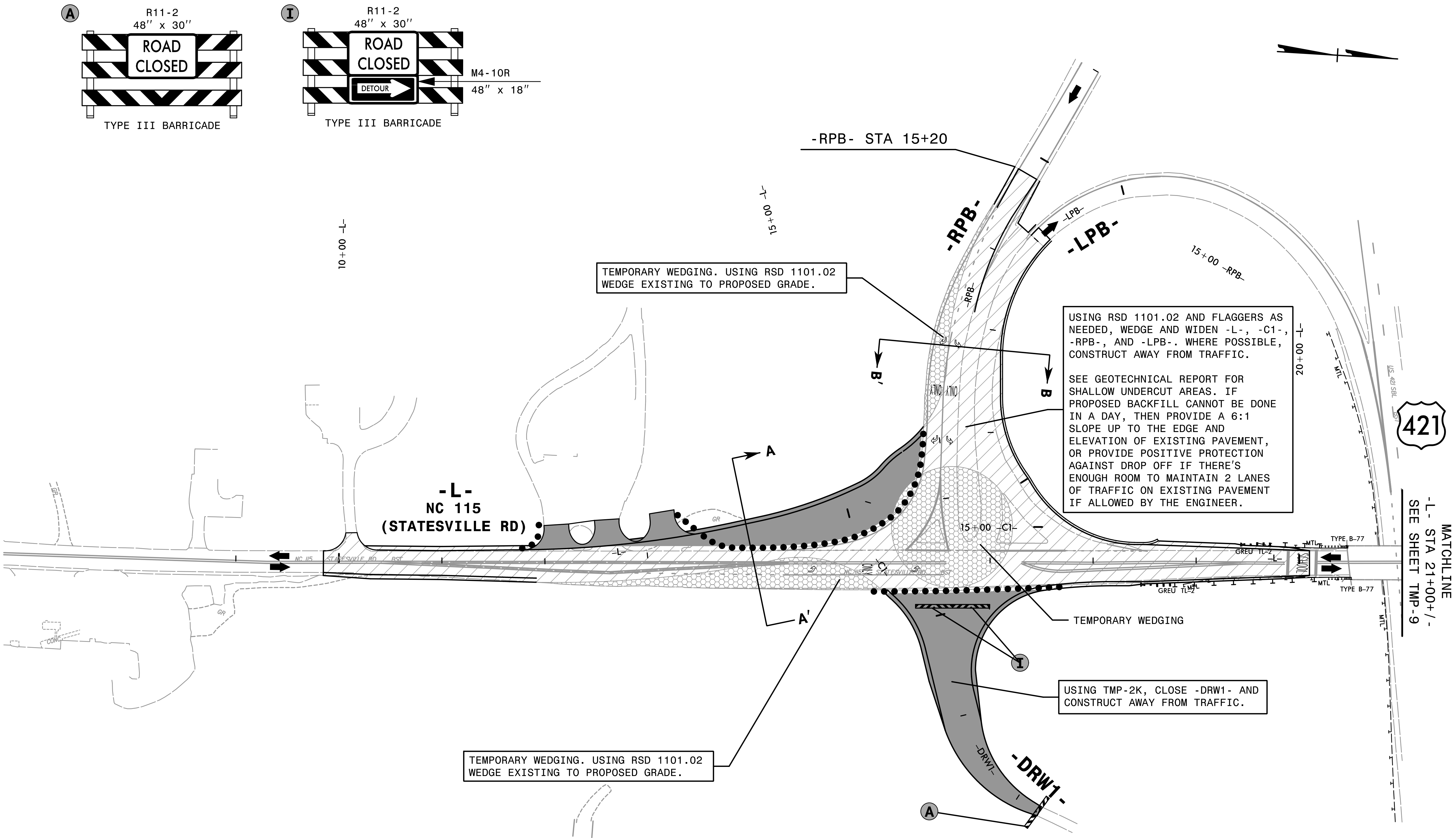
PHASE I
STEP 5.4
DETAIL

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COMPLETE EXISTING PAVEMENT REPAIR/RESTORE BETWEEN -L- STA 91+34+/- TO STA 99+53+/- . USING ROLLING ROAD BLOCK, REMOVE PCB AND PLACE TEMPORARY PAVEMENT MARKINGS ON -L- NB BETWEEN -L- STA 90+17+/- TO 100+97+/- , SHIFT TRAFFIC AND INSTALL PCB BETWEEN -L- STA 93+72+/- TO 95+67+/- .

SEE SIGNING PLAN AND INSTALL RELEVANT PERMANENT SIGNS.



2:33:40 PM
\\TCP\R-5759.fc.PID4.dgn
7/5/2026

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DATE: 10/12/2026

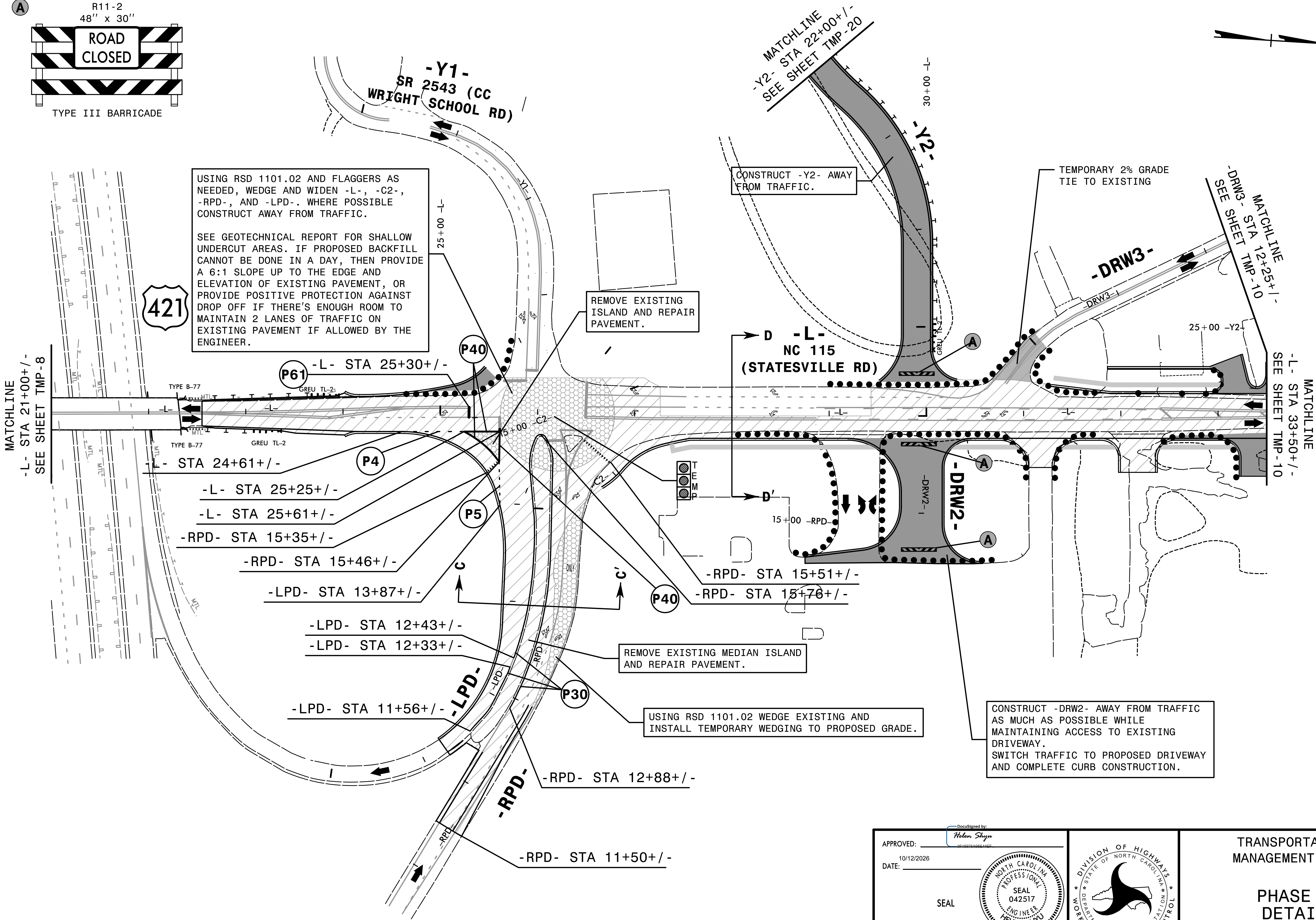
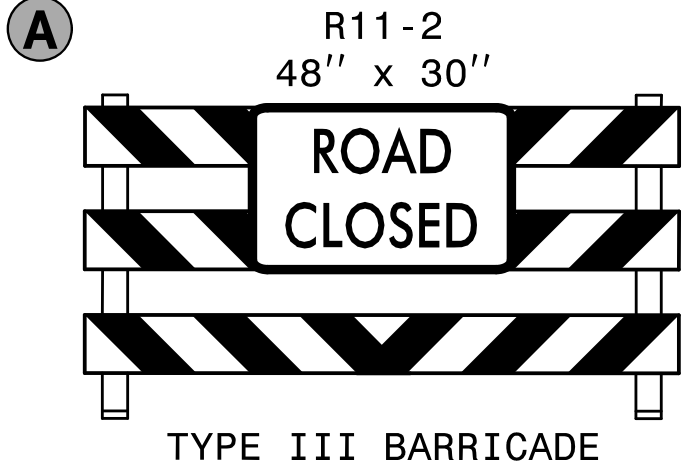
SEAL

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TRANSPORTATION
MANAGEMENT PLAN

PHASE I
DETAIL



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7/5/2026

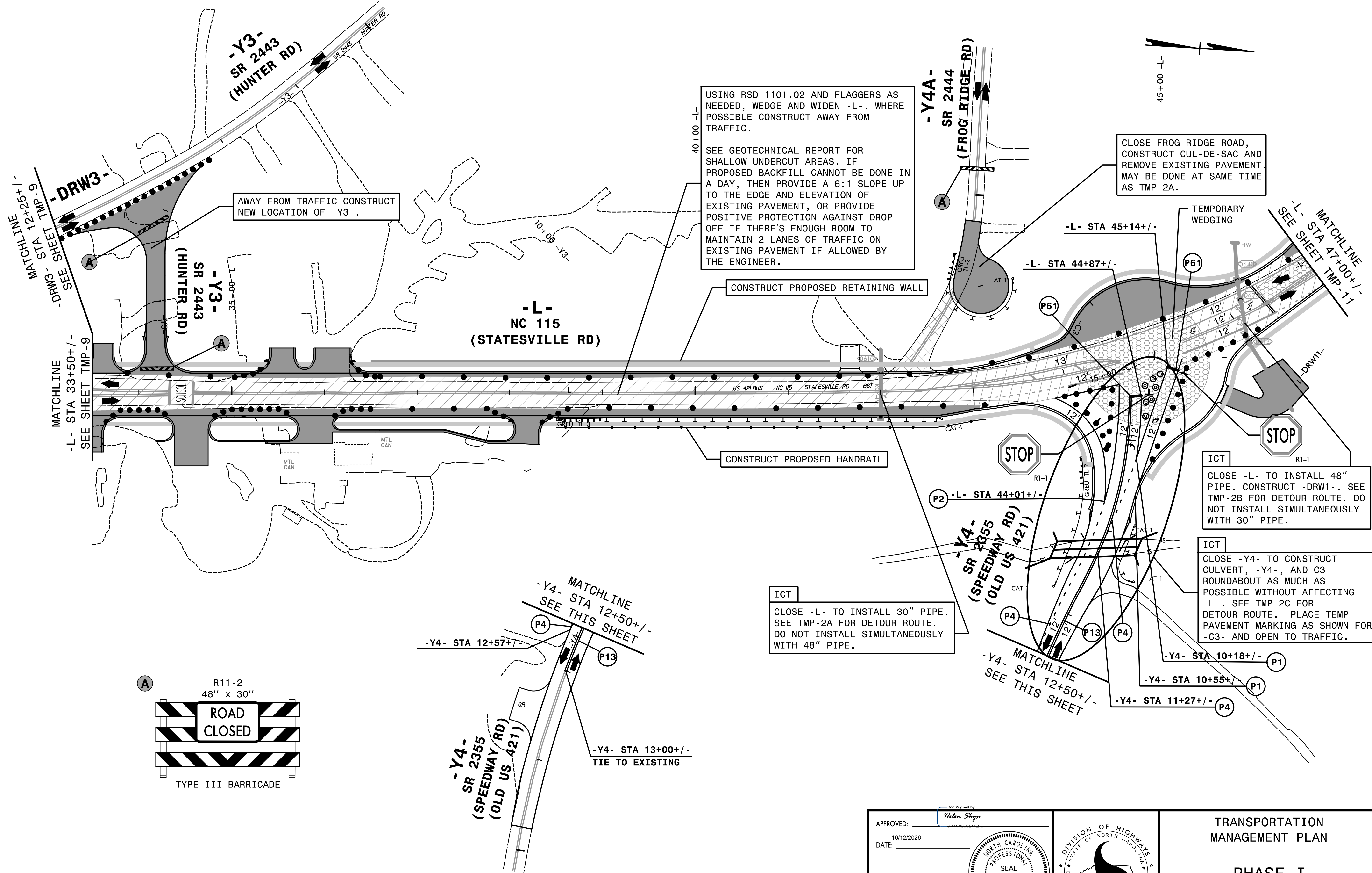
HNTB HNTB NORTH CAROLINA, P.C.
4000 Center at North Hills St.
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TRANSPORTATION
MANAGEMENT PLAN

PHASE I
DETAIL



USING RSD 1101.02 AND FLAGGERS AS NEEDED, WEDGE AND WIDEN -L-. WHERE POSSIBLE CONSTRUCT AWAY FROM TRAFFIC.

SEE GEOTECHNICAL REPORT FOR SHALLOW UNDERCUT AREAS. IF PROPOSED BACKFILL CANNOT BE DONE IN A DAY, THEN PROVIDE A 6:1 SLOPE UP TO THE EDGE AND ELEVATION OF EXISTING PAVEMENT, OR PROVIDE POSITIVE PROTECTION AGAINST DROP OFF IF THERE'S ENOUGH ROOM TO MAINTAIN 2 LANES OF TRAFFIC ON EXISTING PAVEMENT IF ALLOWED BY THE ENGINEER.

CLOSE FROG RIDGE ROAD, CONSTRUCT CUL-DE-SAC AND REMOVE EXISTING PAVEMENT. MAY BE DONE AT SAME TIME AS TMP-2A.

ICT
CLOSE -L- TO INSTALL 48" PIPE. CONSTRUCT -DRW1-. SEE TMP-2B FOR DETOUR ROUTE. DO NOT INSTALL SIMULTANEOUSLY WITH 30" PIPE.

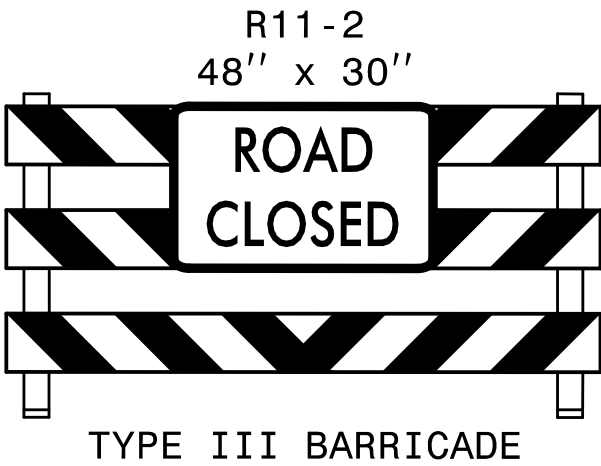
ICT
CLOSE -Y4- TO CONSTRUCT CULVERT, -Y4-, AND C3 ROUNDABOUT AS MUCH AS POSSIBLE WITHOUT AFFECTING -L-. SEE TMP-2C FOR DETOUR ROUTE. PLACE TEMP PAVEMENT MARKING AS SHOWN FOR -C3- AND OPEN TO TRAFFIC.

ICT
CLOSE -L- TO INSTALL 30" PIPE. SEE TMP-2A FOR DETOUR ROUTE. DO NOT INSTALL SIMULTANEOUSLY WITH 48" PIPE.

AWAY FROM TRAFFIC CONSTRUCT NEW LOCATION OF -Y3-.

CONSTRUCT PROPOSED RETAINING WALL

CONSTRUCT PROPOSED HANDRAIL



9:54:29 AM
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7/7/2026

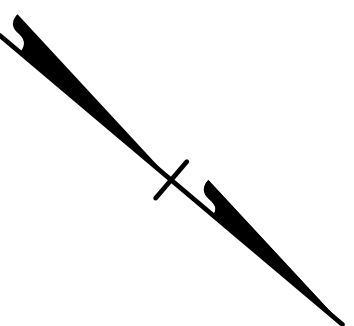
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TRANSPORTATION
MANAGEMENT PLAN

PHASE I
DETAIL



MATCHLINE
-L- STA 60+50+/-
SEE SHEET TMP-12

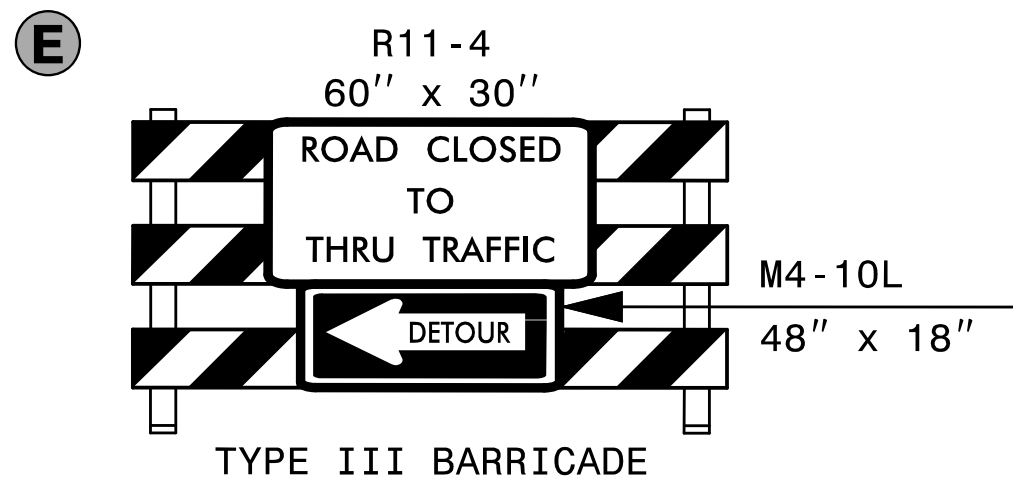
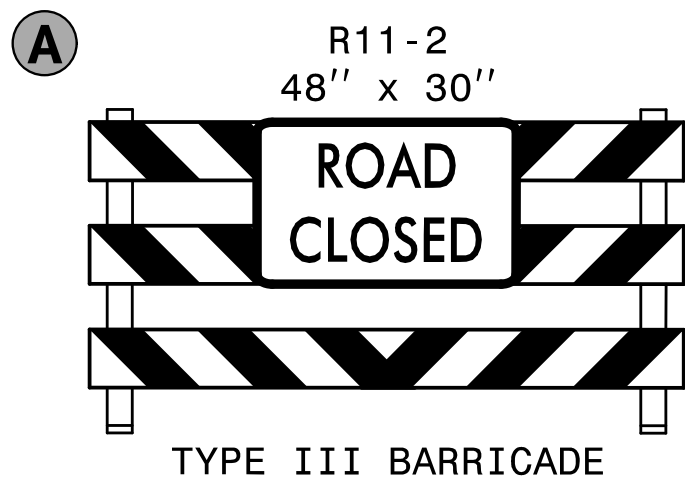
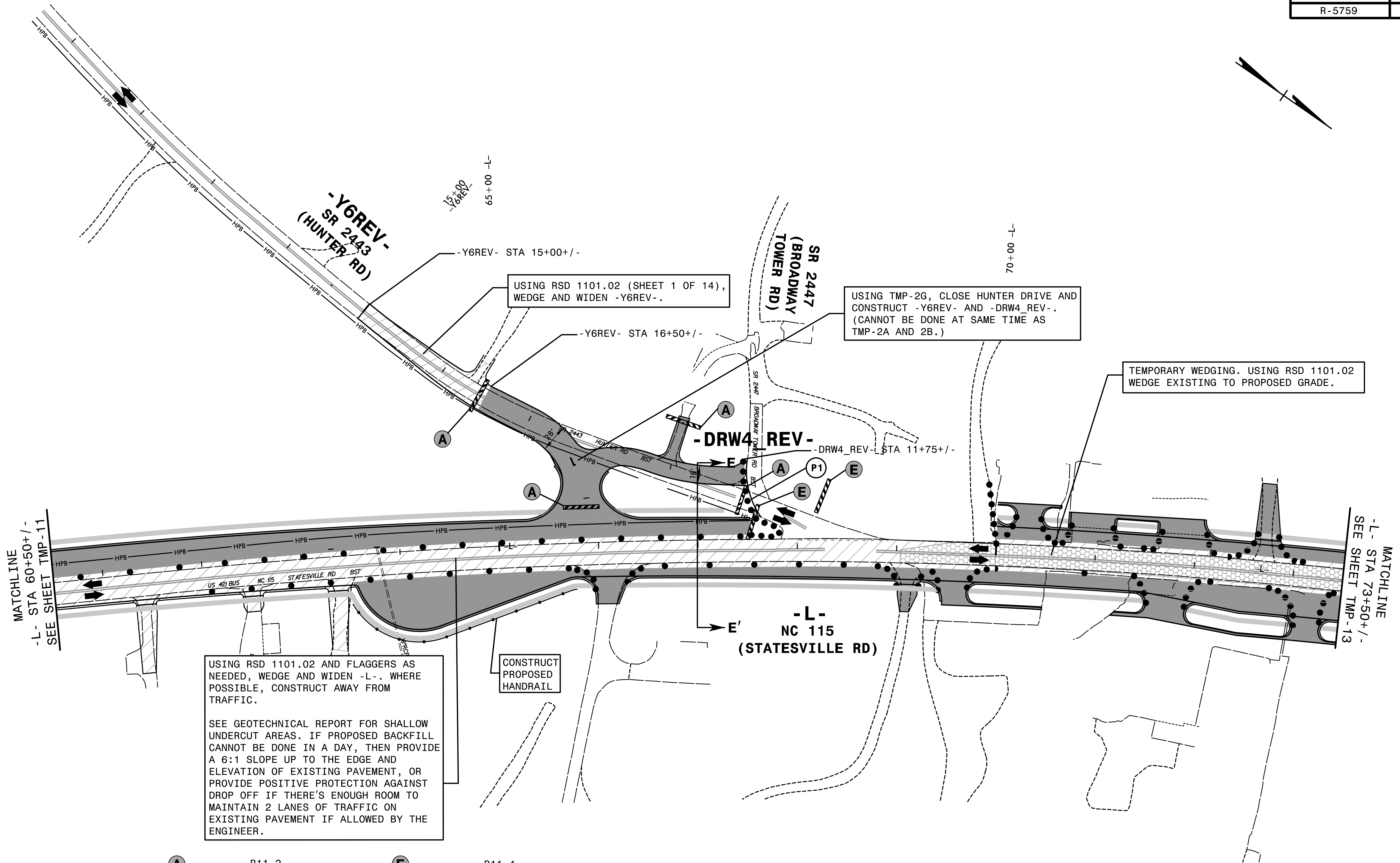
SEE GEOTECHNICAL REPORT FOR SHALLOW UNDERCUT AREAS. IF PROPOSED BACKFILL CANNOT BE DONE IN A DAY, THEN PROVIDE A 6:1 SLOPE UP TO THE EDGE AND ELEVATION OF EXISTING PAVEMENT, OR PROVIDE POSITIVE PROTECTION AGAINST DROP OFF IF THERE'S ENOUGH ROOM TO MAINTAIN 2 LANES OF TRAFFIC ON EXISTING PAVEMENT IF ALLOWED BY THE ENGINEER.

**-Y5-
SR 2386
(MIMOSA LN)**

SR 2352
(BESHEARS ST)

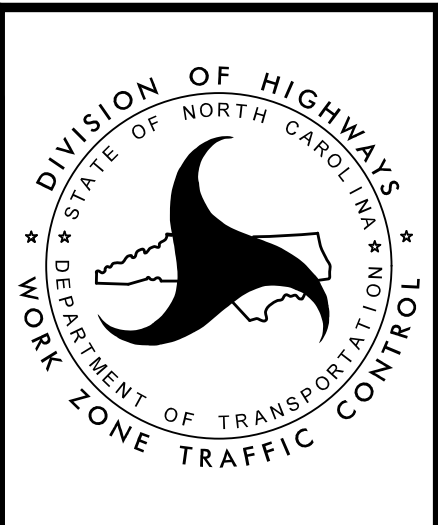
HNTB HNTB NORTH CAROLINA, P.C.
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PHASE I DETAIL



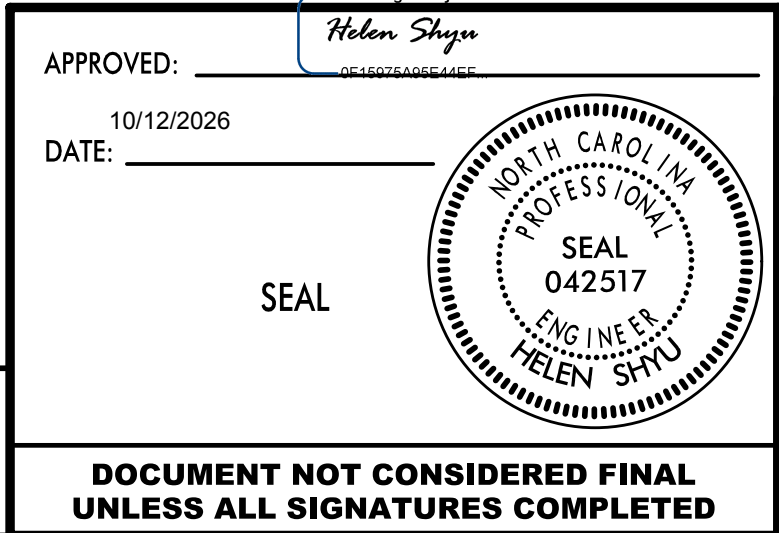
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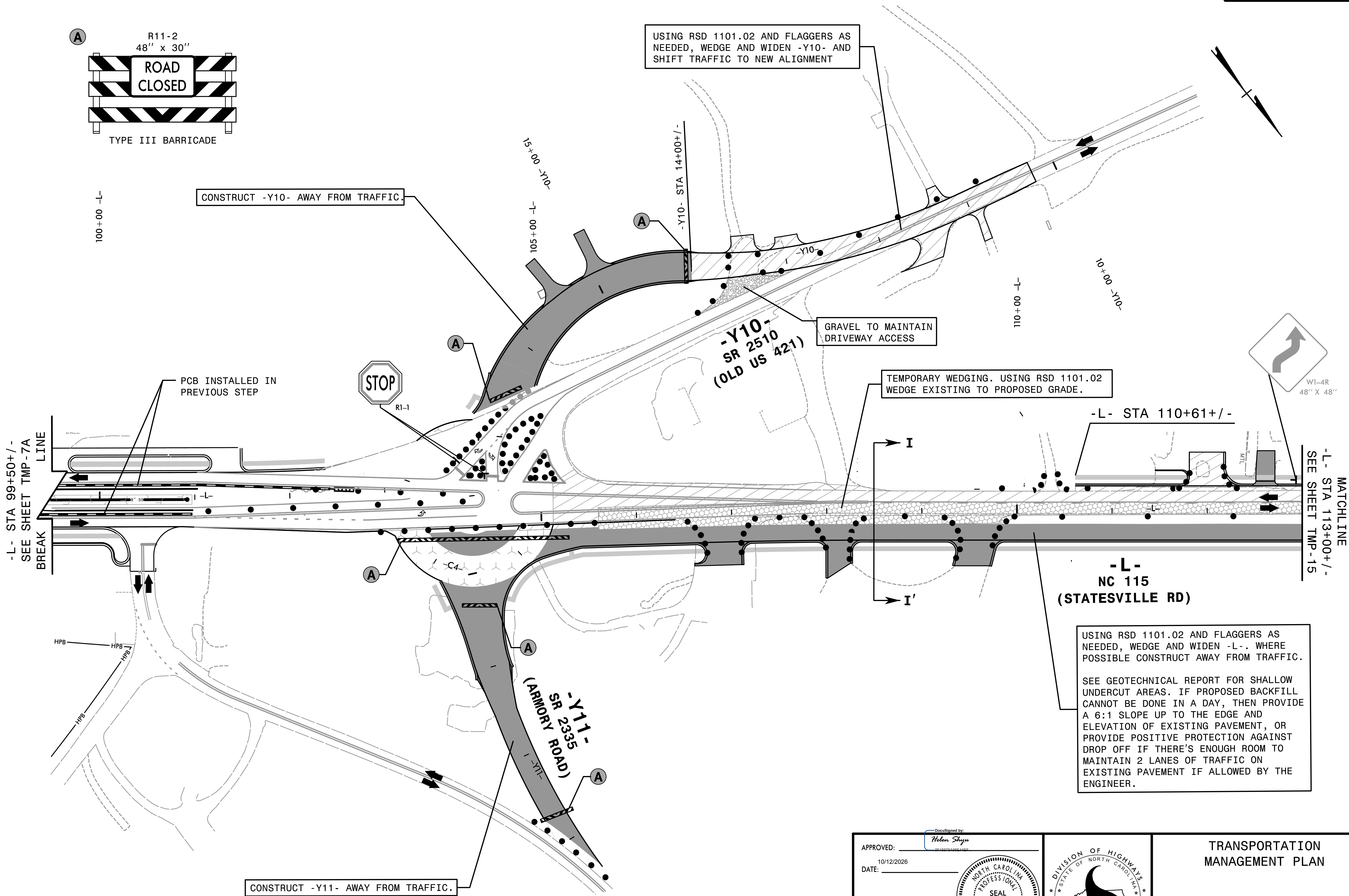


TRANSPORTATION
MANAGEMENT PLAN

PHASE I
DETAIL



PHASE I DETAIL



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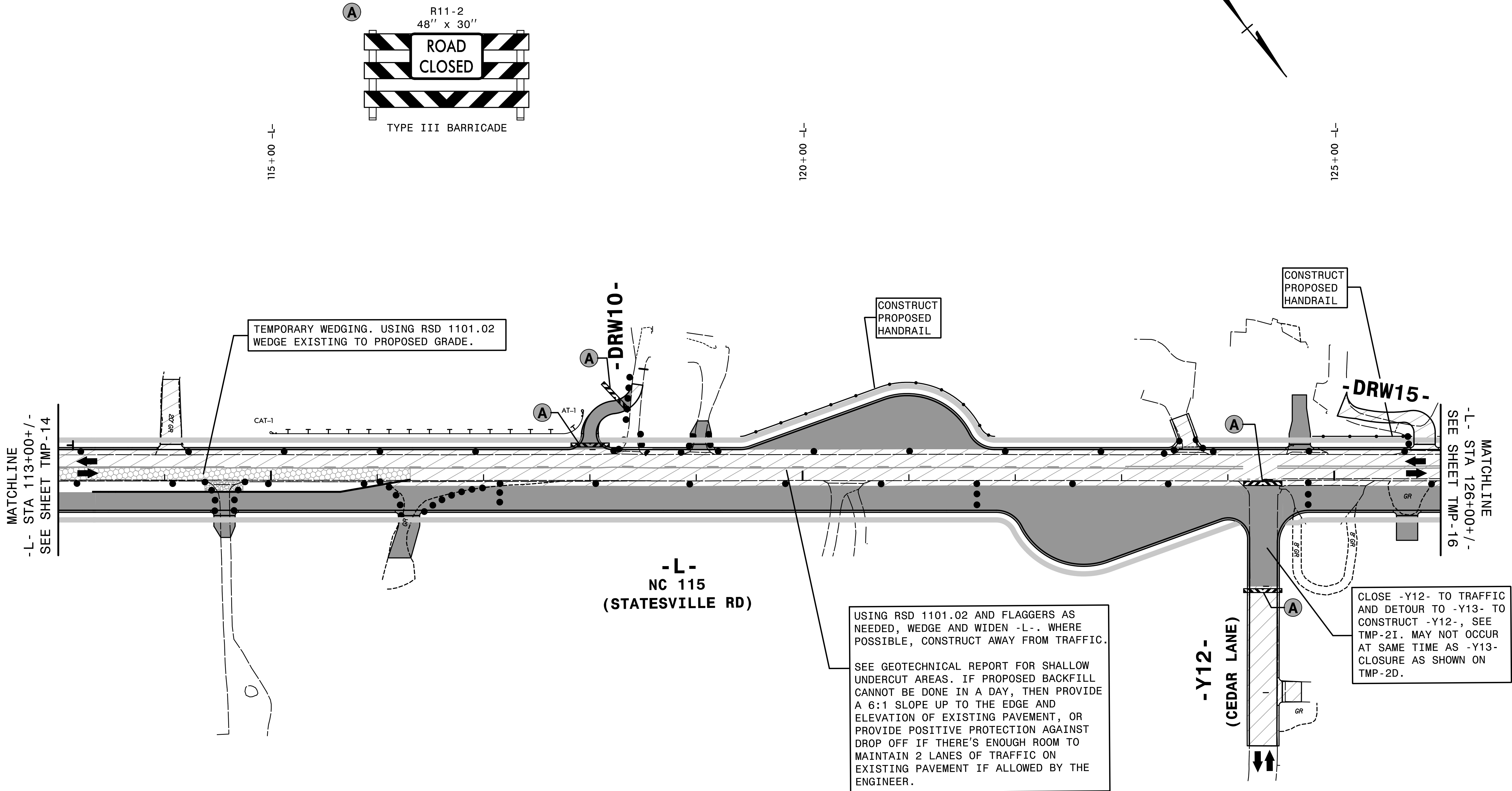
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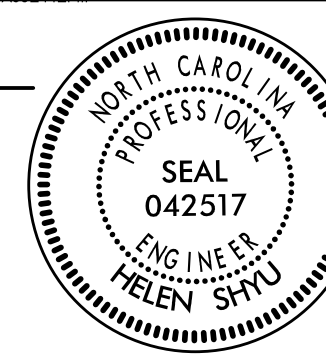
TRANSPORTATION
MANAGEMENT PLAN

PHASE I
DETAIL



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7/5/2026

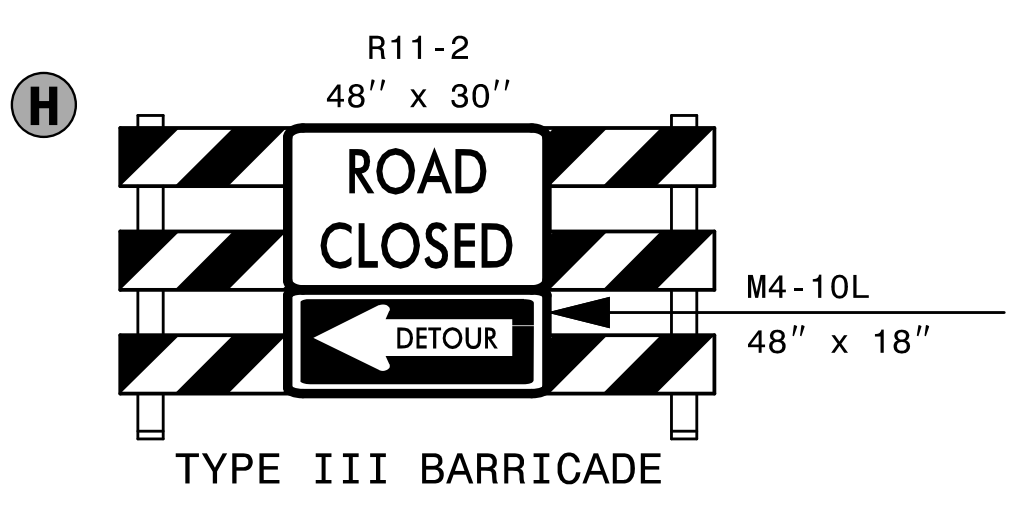
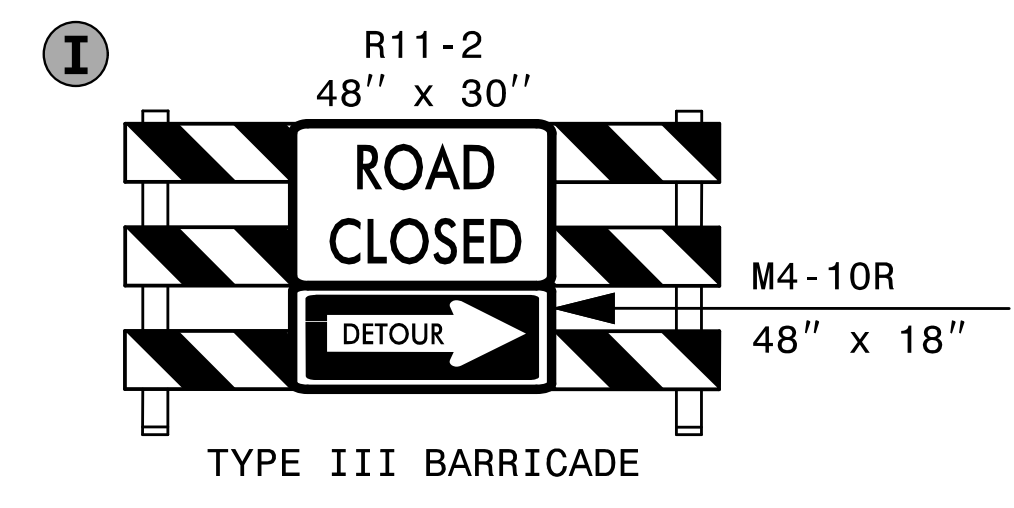
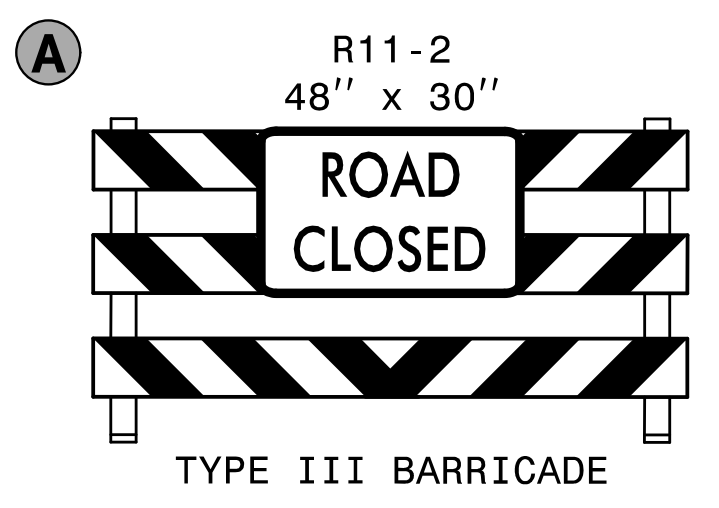
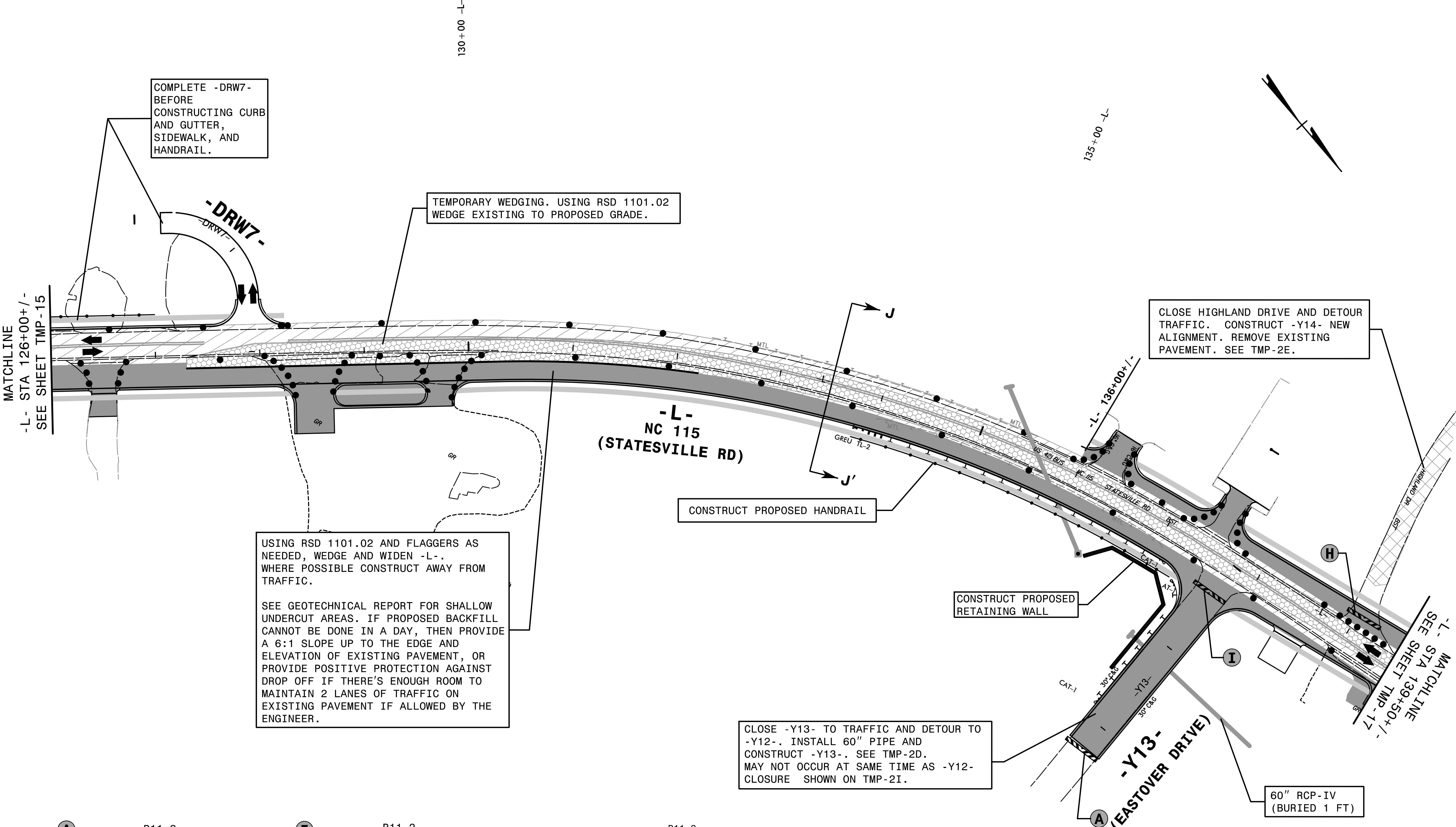
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Raleigh, North Carolina 27609
NC License No: C-1554

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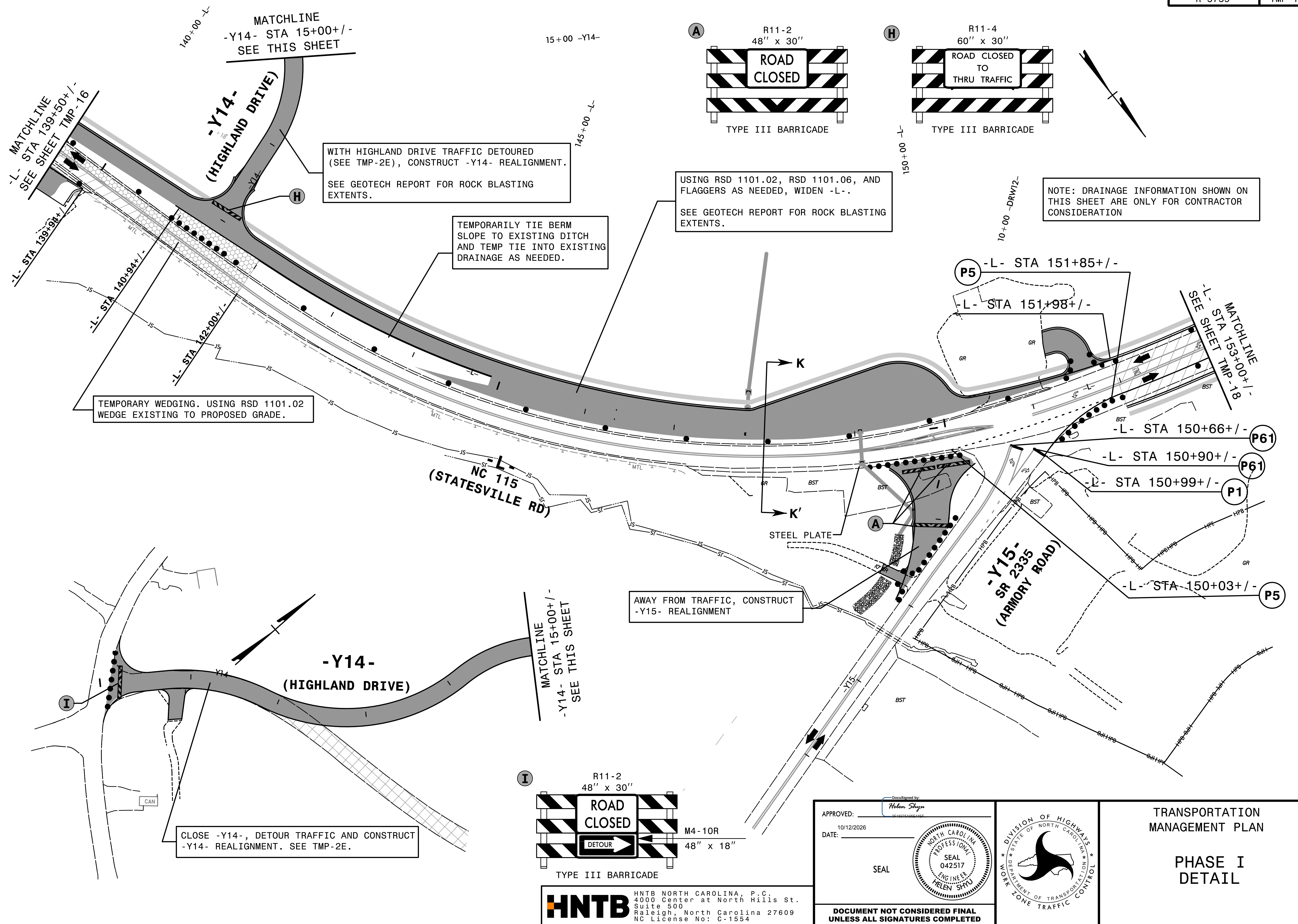
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TRANSPORTATION
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PHASE I
DETAIL

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7/15/2026





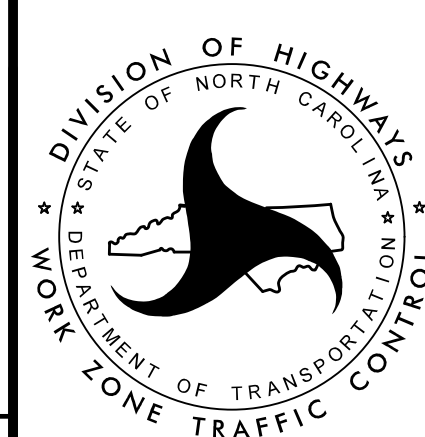
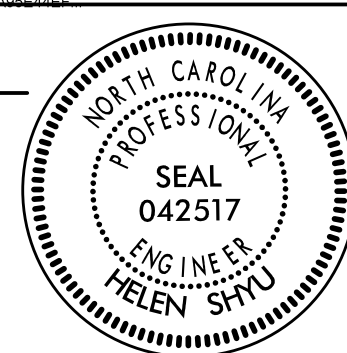
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Helen Shyu
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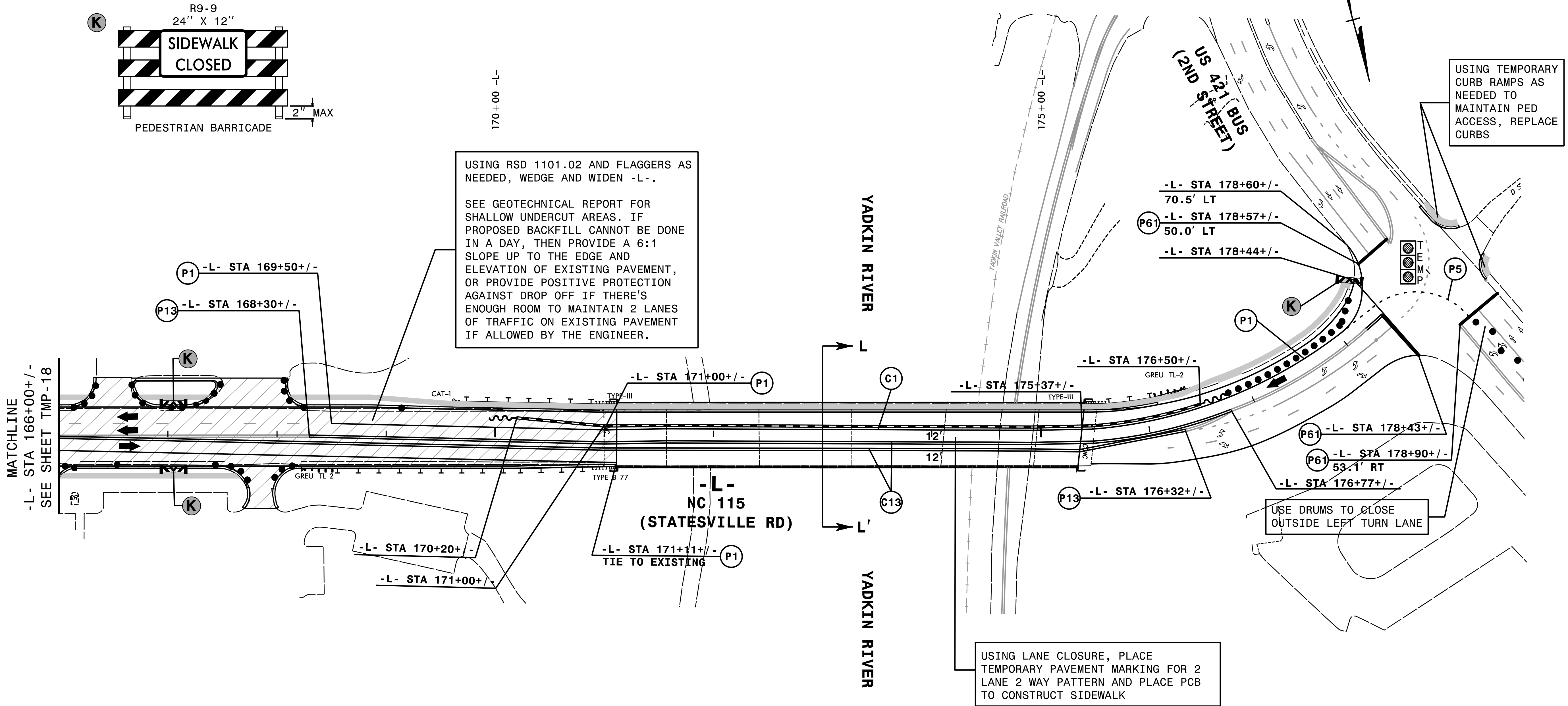
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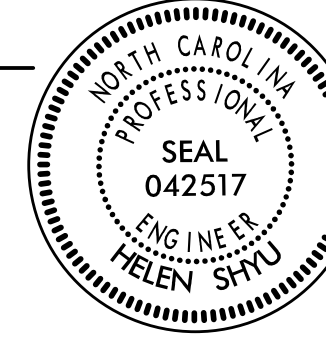
PHASE I DETAIL

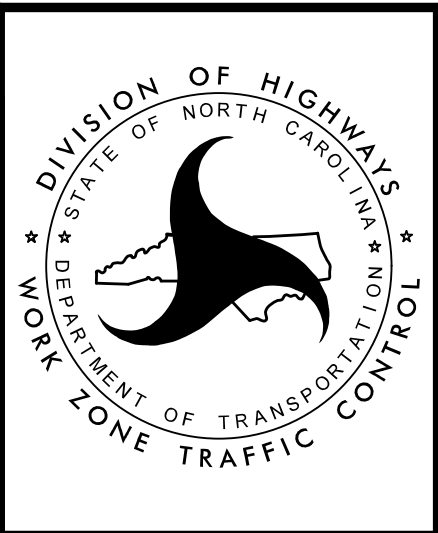
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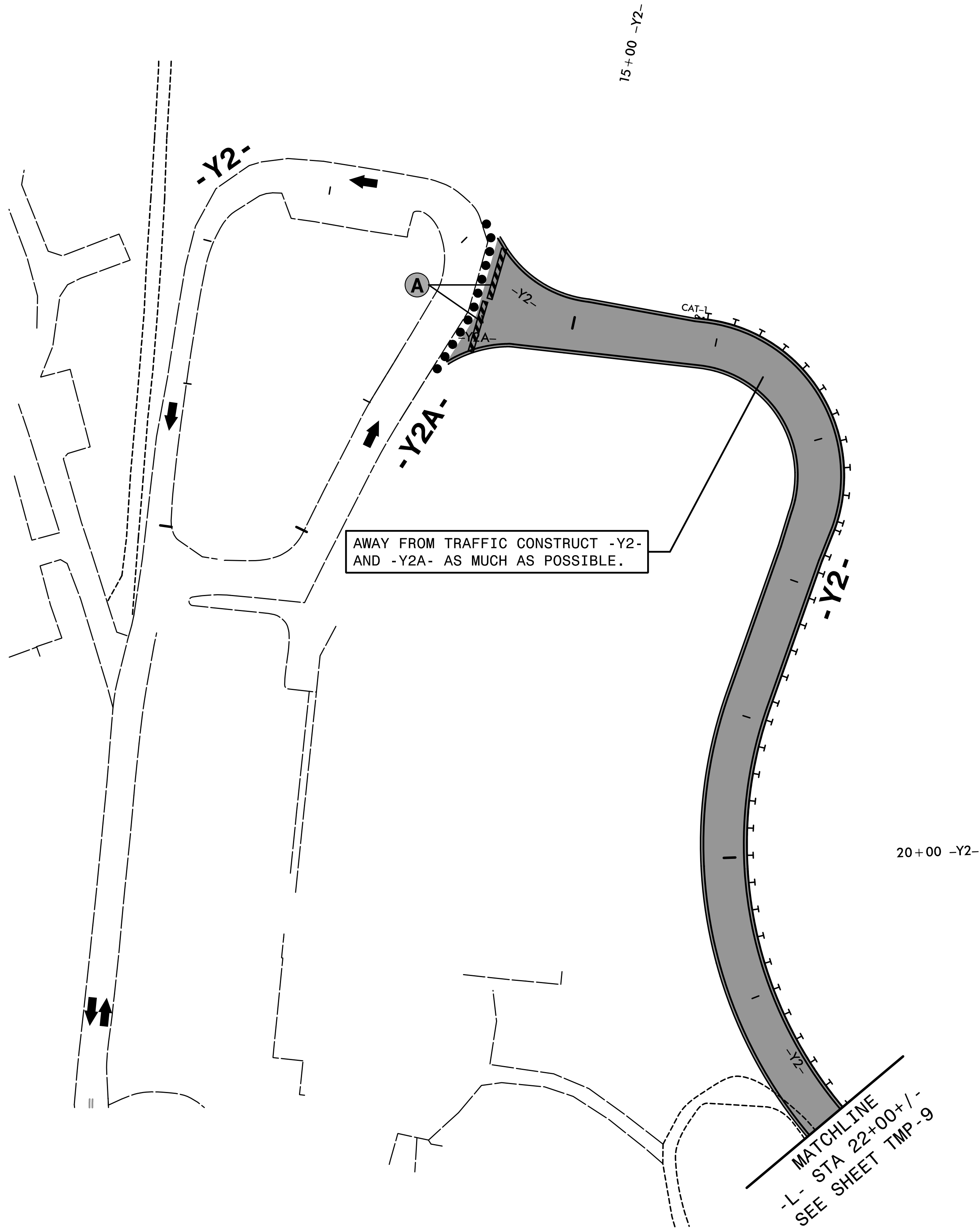
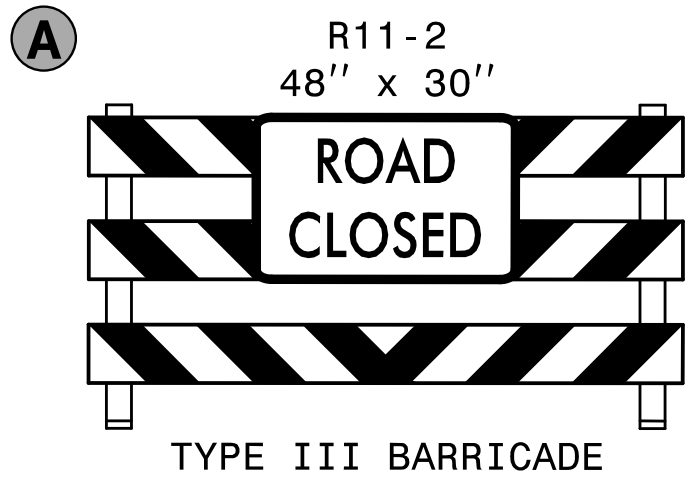
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0C4007A8D5E4A5C7

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ENGINEER
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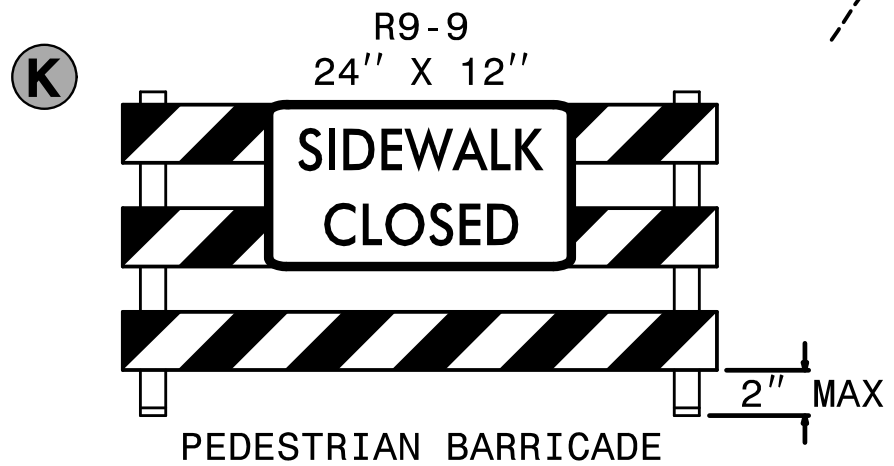
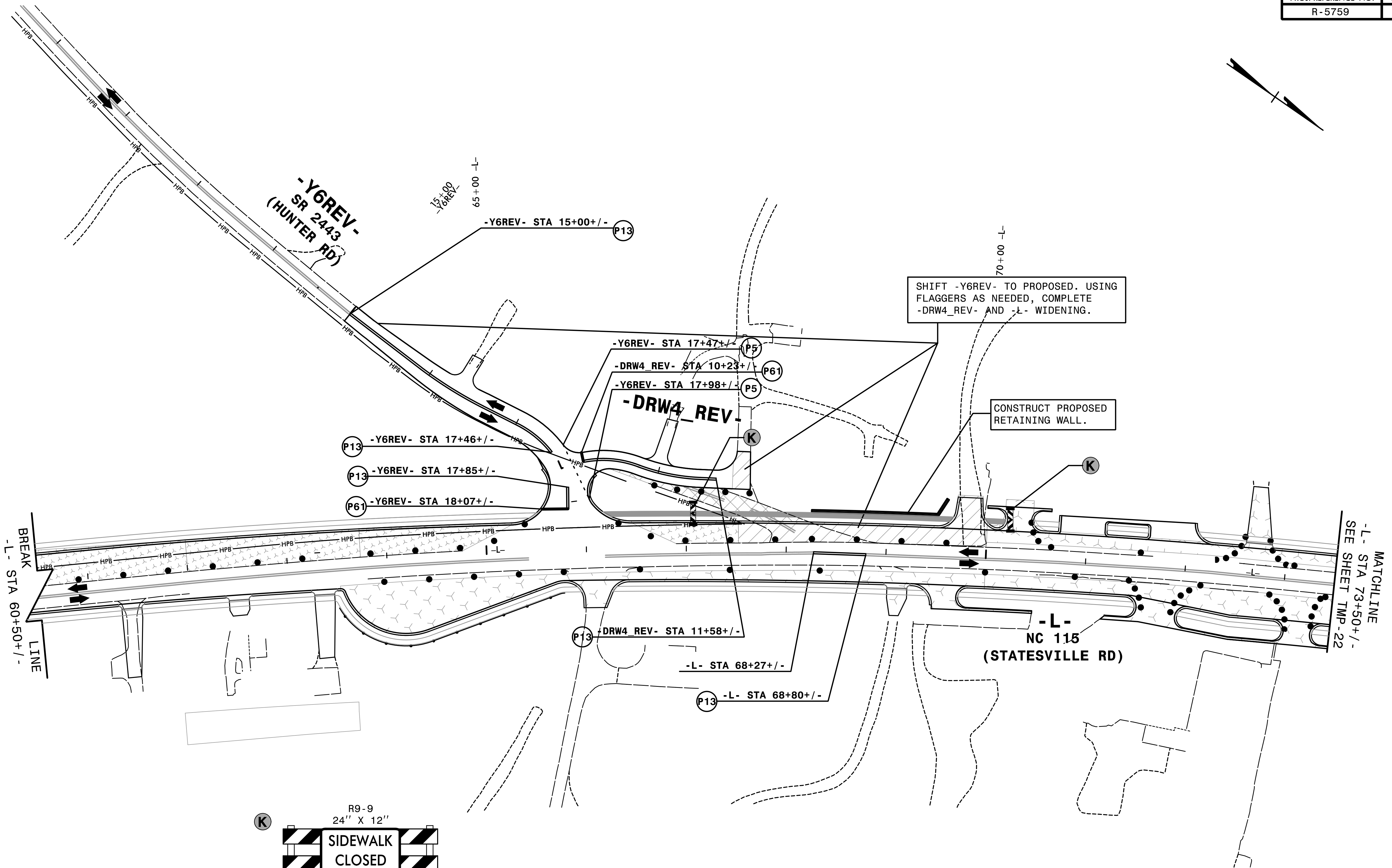
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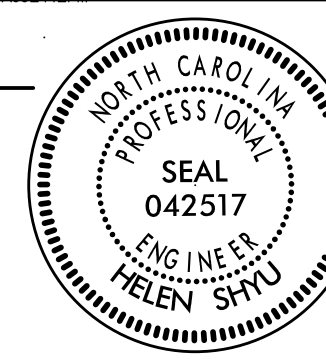


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7/5/2026

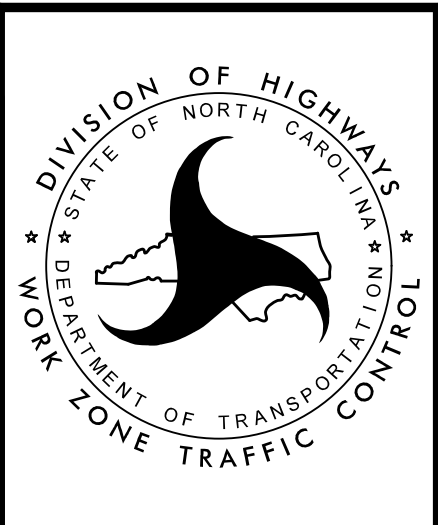
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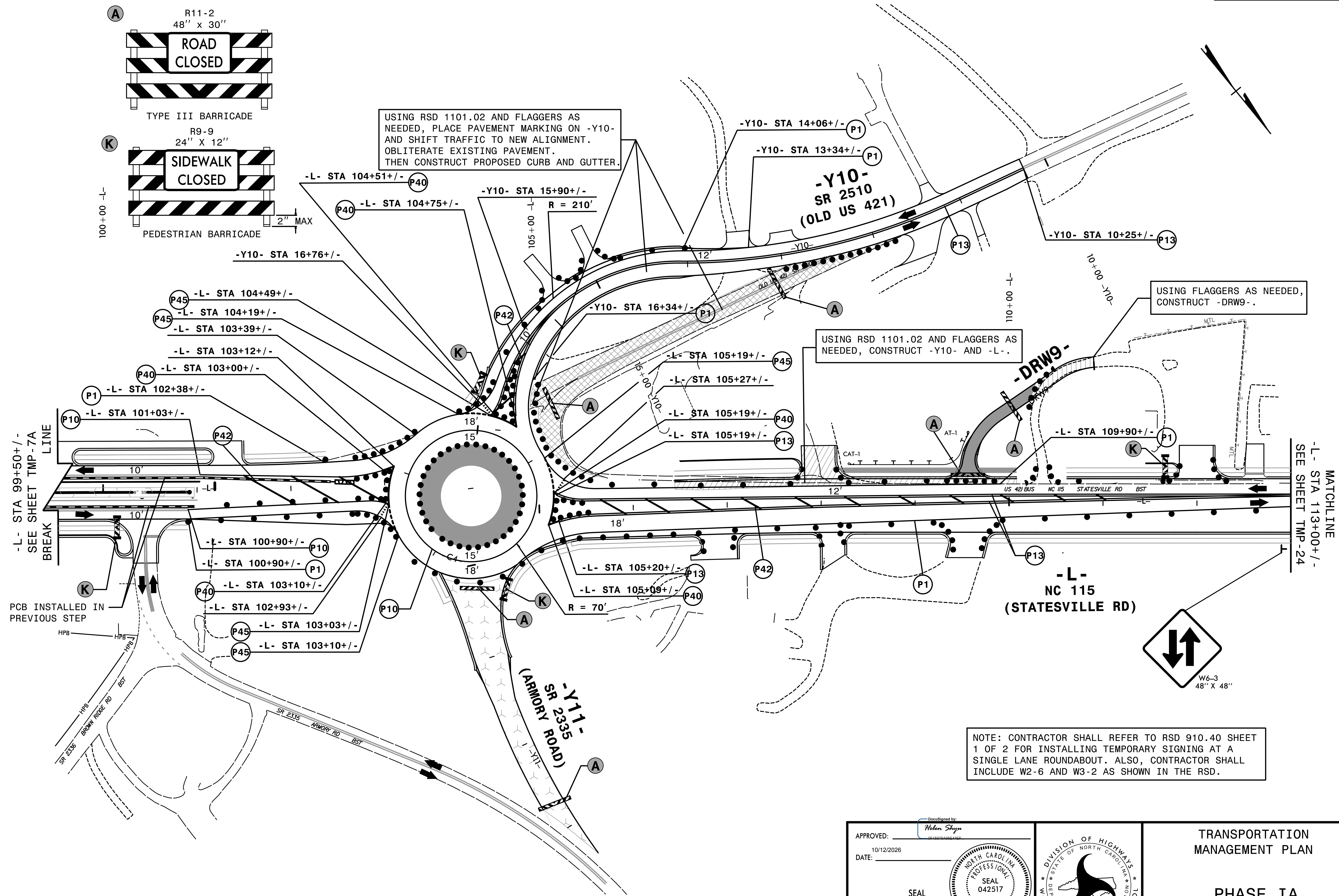
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