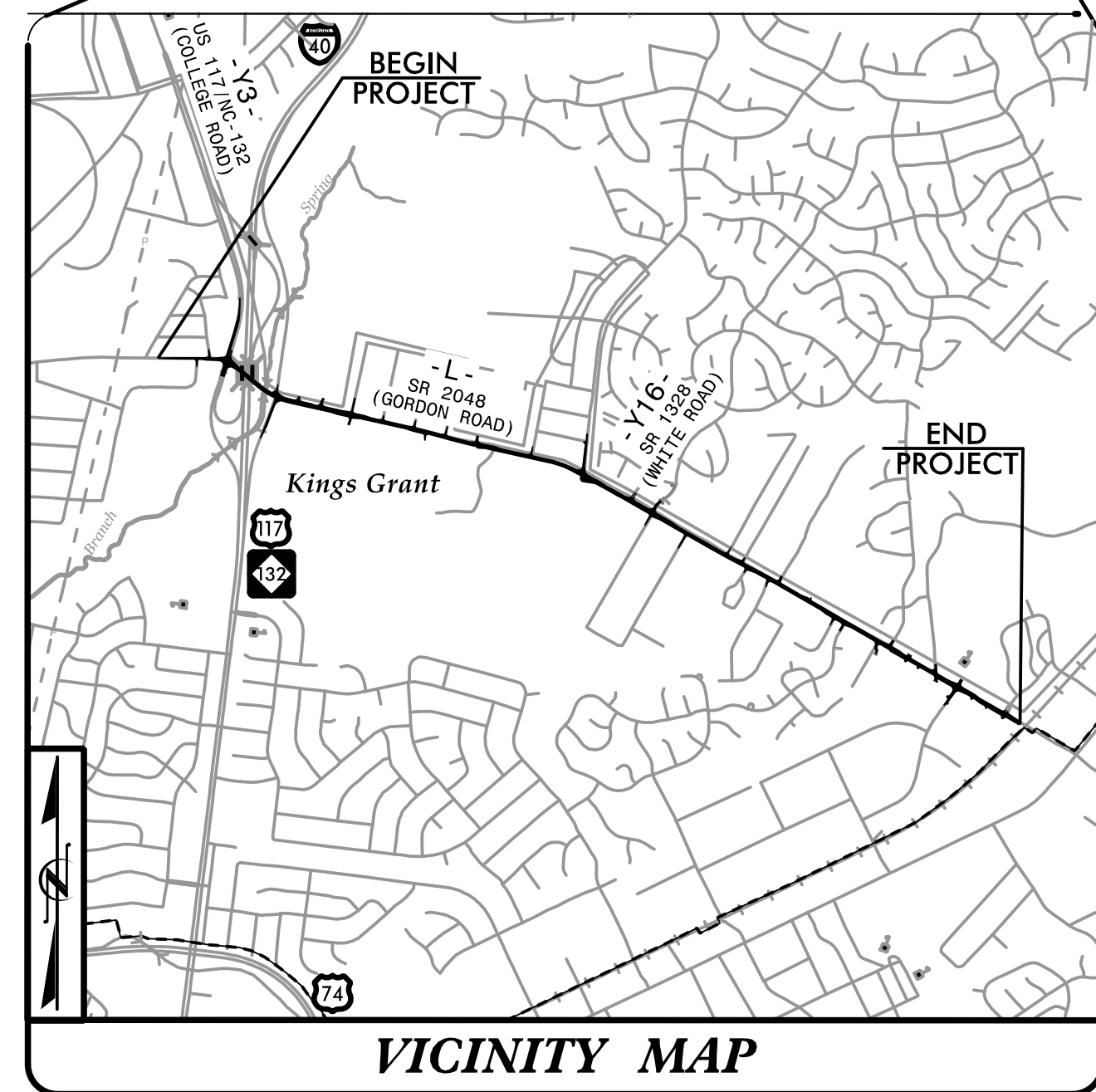
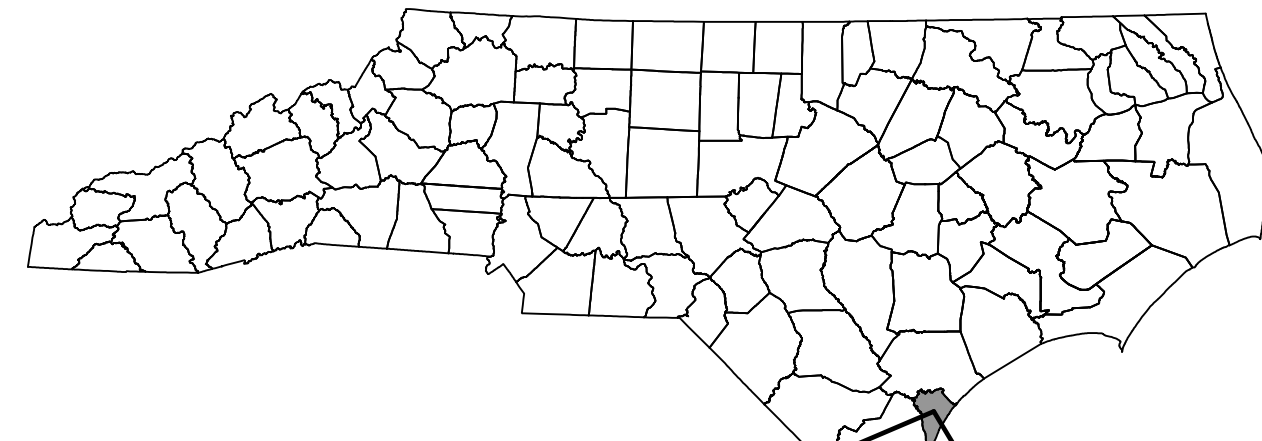


STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

TRANSPORTATION MANAGEMENT PLAN

NEW HANOVER COUNTY



LOCATION: SR 2048 (GORDON ROAD) FROM WEST OF INTERSTATE-40 TO WEST OF US 17 BUS (MARKET STREET)

TYPE OF WORK: GRADING, DRAINAGE, PAVING, CULVERT, AND SIGNALS

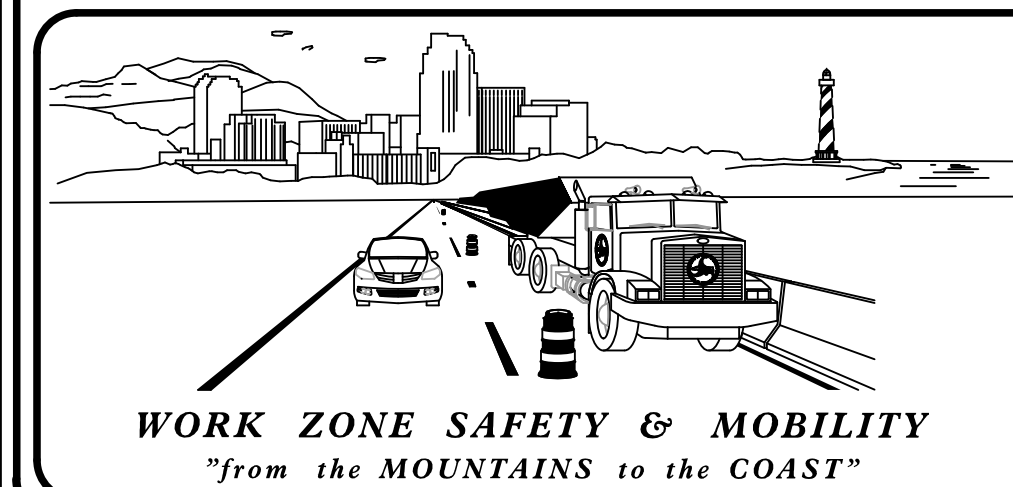
<u>SHEET NO.</u>	<u>TITLE</u>
TMP-1	TITLE SHEET: VICINITY MAP AND INDEX OF SHEETS
TMP-1A	LIST OF APPLICABLE ROADWAY STANDARD DRAWINGS, LEGEND, AND TEMPORARY PAVEMENT MARKINGS
TMP-1B - 1C	TRANSPORTATION OPERATIONS PLAN: (MANAGEMENT STRATEGIES, GENERAL NOTES, AND LOCAL NOTES)
TMP-2	-L- DETOUR AT COLLEGE ROAD
TMP-2A	TEMPORARY SIGN DESIGN
TMP-2B	GORDON RD LANE CLOSURE FOR UTILITY WORK
TMP-2C	PORTABLE CONCRETE BARRIER AT TEMPORARY SHORING LOCATIONS
TMP-2D	TEMPORARY SHORING DATA
TMP-3	PHASING
TMP-4 - 16	PHASE I DETAILS
TMP-17 - 20	PHASE II DETAILS
TMP-21 - 31	PHASE IIA DETAILS
TMP-32 - 38	PHASE III DETAILS

SHEET NO.
TMP-1

U-6202

TIP PROJECT:

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PLANS PREPARED BY:

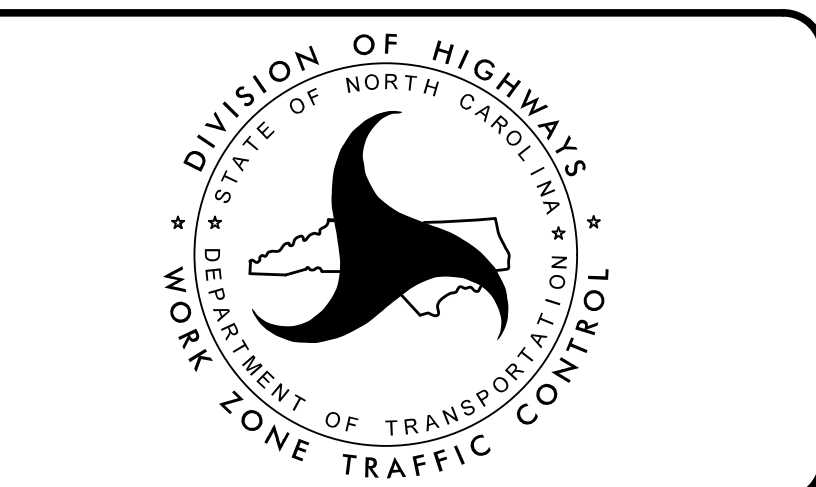
H. SHYU, P.E.
TRAFFIC CONTROL ENGINEER

G. RODRIGUEZ, E.I.
TRAFFIC CONTROL DESIGNER

NCDOT CONTACTS:

K.E. MILLER, P.E.
PROJECT ENGINEER

A. LYUDMIRSKAYA
PROJECT DESIGN ENGINEER



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DATE: 5/16/2024

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ROADWAY STANDARD DRAWINGS

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

STD. NO.	TITLE
1101.01	WORK ZONE WARNING SIGNS
1101.02	TEMPORARY LANE CLOSURES
1101.03	TEMPORARY ROAD CLOSURES
1101.04	TEMPORARY SHOULDER CLOSURES
1101.05	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
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 RAMP
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
1250.01	RAISED PAVEMENT MARKERS - INSTALLATION SPACING
1251.01	RAISED PAVEMENT MARKERS - (TEMPORARY)
1261.01	GUARDRAIL AND BARRIER DELINEATORS - INSTALLATION SPACING
1261.02	GUARDRAIL AND BARRIER DELINEATORS - TYPES AND MOUNTING
1262.01	GUARDRAIL END DELINEATION
1266.01	RAISED PAVEMENT MARKERS - TUBULAR MARKERS

LEGEND

GENERAL

- DIRECTION OF TRAFFIC FLOW
- DIRECTION OF PEDESTRIAN TRAFFIC FLOW
- EXIST. PVMT.
- NORTH ARROW
- PROPOSED PVMT.
- TEMPORARY PAVEMENT
- REMOVAL
- WORK AREA
- WEDGE/ WIDEN (LANE CLOSURE REQUIRED)
- ONGOING CONSTRUCTION
- INCIDENTAL STONE

TRAFFIC CONTROL DEVICES

- BARRICADE (TYPE III)
- CONE
- DRUM SKINNY DRUM TUBULAR MARKER
- TEMPORARY CRASH CUSHION
- FLASHING ARROW PANEL (TYPE C)
- FLAGGER
- LAW ENFORCEMENT
- TRUCK MOUNTED ATTENUATOR (TMA)
- CHANGEABLE MESSAGE SIGN
- FLASHING ARROW PANEL IN 'CAUTION MODE'
- PORTABLE CONCRETE BARRIER (PCB)
- PEDESTRIAN BARRICADE
- TEMPORARY SHORING

TEMPORARY SIGNING

- PORTABLE SIGN
- STATIONARY SIGN
- STATIONARY OR PORTABLE SIGN

SIGNALS

- EXISTING
- PROPOSED
- TEMPORARY

PAVEMENT MARKINGS

- EXISTING LINES
- TEMPORARY LINES

PAVEMENT MARKING SYMBOLS

- PAVEMENT MARKING SYMBOLS
- EXISTING MARKING SYMBOLS

TEMPORARY PAVEMENT MARKING

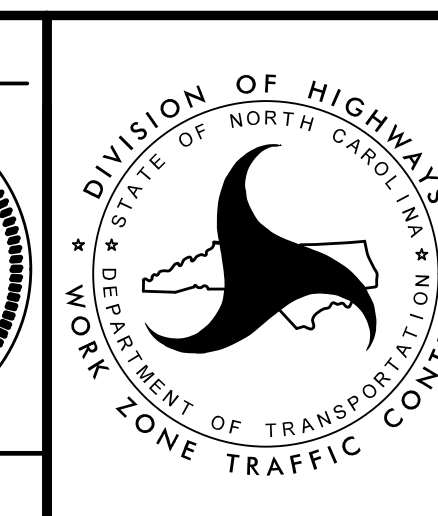
SYMBOL	DESCRIPTION
PAVEMENT MARKING LINES	
PAINT (4")	
P1	WHITE EDGELINE
P2	WHITE SOLID LANE LINE
P3	10FT. WHITE SKIP
P4	3FT - 9FT/SP WHITE MINISKIP
P5	2 FT - 6 FT/SP WHITE MINISKIP
P10	YELLOW EDGELINE
P11	YELLOW SINGLE CENTER
P12	10 FT. YELLOW SKIP
P13	YELLOW DOUBLE CENTER LINE
P14	2 FT - 6 FT/SP YELLOW MINISKIP
PAINT (6")	
P20	WHITE EDGELINE
P21	WHITE SOLID LANE LINE
P22	10 FT. WHITE SKIP
P23	3 FT. -9 FT./SP WHITE MINISKIP
P30	YELLOW EDGELINE
PAINT (8")	
P40	WHITE GORELINE
P41	WHITE DIAGONAL
P42	YELLOW DIAGONAL
P43	WHITE SOLID LANE LINE
P44	3 FT - 9FT/SP WHITE MINISKIP
PAINT (12")	
P52	YELLOW DIAGONAL
PAINT (24")	
P61	WHITE STOP BAR
P62	WHITE CROSSWALK LINE
PAVEMENT MARKING SYMBOLS & CHARACTERS	
P70	LEFT TURN ARROW
P71	RIGHT TURN ARROW
P72	STRAIGHT ARROW
P73	COMBO. LEFT/STRAIGHT ARROW
P74	COMBO. RIGHT/STRAIGHT ARROW
P77	U-TURN ARROW
P79	MERGE ARROW
P80	WRONG WAY RAMP ARROW
P81	ELONGATED STRAIGHT ARROW
P100	ALPHANUMERIC CHARACTER
P102	12" YIELD TRIANGLE
P103	24" YIELD TRIANGLE

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

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APPROVED:
DATE: 5/16/2024
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TRANSPORTATION
MANAGEMENT PLAN
**ROADWAY STANDARD
DRAWINGS AND
LEGEND**

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MANAGEMENT STRATEGIES

PROJECT INVOLVES WIDENING GORDON ROAD TO A 4 LANE ROAD BETWEEN I-40 AND MARKET STREET.

PHASE I:
USING LANE CLOSURES, WEDGE AND WIDEN -L- AS MUCH AS POSSIBLE. WIDEN -L- TO THE RIGHT BETWEEN -Y11- AND -Y20-.

STAGE CONSTRUCT CULVERT NEAR STA 98+00+/-.

USE WEEKEND OFFSITE DETOUR TO INSTALL PROPOSED 66" RCP AT COLLEGE ROAD INTERSECTION.

PHASE II:
SHIFT TRAFFIC AND CONSTRUCT MEDIAN ISLANDS BETWEEN BEGINNING OF PROJECT AND STA 59+00+/-.

PHASE IIA:
SHIFT TRAFFIC TO THE RIGHT BETWEEN -Y11- AND -Y20-. USING LANE CLOSURES, COMPLETE -L- (LT) AND COMPLETE -Y-LINES. (DETOUR -Y13-.) CONSTRUCT MEDIAN ISLANDS WHERE POSSIBLE.

AWAY FROM TRAFFIC, COMPLETE CULVERT.

PHASE III:
SHIFT TRAFFIC TO PROPOSED PATTERN AND USING LANE CLOSURES, COMPLETE MEDIAN ISLANDS.

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:

<u>ROAD NAME</u>	<u>DAY AND TIME RESTRICTIONS</u>
-L- GORDON RD -Y3- COLLEGE RD -Y4- I-40 AND ALL RAMPS -Y14- HARRIS RD -Y16- WHITE RD	MONDAY THRU SUNDAY 6:00 AM - 8:00 PM
ANY OTHER ROAD	MONDAY THRU FRIDAY 7:00 AM - 9:00 AM 4:00 PM - 6:00 PM

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

<u>ROAD NAME</u>
ALL ROADS
<u>HOLIDAY</u>
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 8:00 P.M. JANUARY 2ND. IF NEW YEAR'S DAY IS ON A FRIDAY, SATURDAY, SUNDAY, OR MONDAY THEN UNTIL 8:00 P.M. THE FOLLOWING TUESDAY.

GENERAL NOTES

3. FOR EASTER, BETWEEN THE HOURS OF 6:00 A.M. THURSDAY AND 8:00 P.M. MONDAY.
4. FOR MEMORIAL DAY, BETWEEN THE HOURS OF 6:00 A.M. FRIDAY TO 8:00 P.M. TUESDAY.
5. FOR INDEPENDENCE DAY, BETWEEN THE HOURS OF 6:00 A.M. THE DAY BEFORE INDEPENDENCE DAY AND 8:00 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 8:00 P.M. THE TUESDAY AFTER INDEPENDENCE DAY.
6. FOR LABOR DAY, BETWEEN THE HOURS OF 6:00 A.M. FRIDAY TO 8:00 P.M. TUESDAY.
7. FOR THANKSGIVING DAY, BETWEEN THE HOURS OF 6:00 A.M. TUESDAY TO 8:00 P.M. MONDAY.
8. FOR CHRISTMAS, BETWEEN THE HOURS OF 6:00 A.M. THE FRIDAY BEFORE THE WEEK OF CHRISTMAS DAY AND 8:00 P.M. THE FOLLOWING TUESDAY AFTER THE WEEK OF CHRISTMAS.
9. FOR THE WEEK OF THE ANNUAL NORTH CAROLINA AZALEA FESTIVAL, BETWEEN THE HOURS OF 6:00 AM WEDNESDAY THE WEEK OF THE FESTIVAL AND 9:00 AM THE FOLLOWING MONDAY AFTER THE FESTIVAL. VISIT THE FESTIVAL'S WEBSITE AT WWW.NCAZALEAFESTIVAL.ORG TO CONFIRM THE DATES OF THE FESTIVAL.

C) DO NOT STOP TRAFFIC AS FOLLOWS:

<u>ROAD NAME</u>	<u>DAY AND TIME RESTRICTIONS</u>	<u>DURATION AND OPERATION</u>
ANY ROAD	5:00 AM TO 12:00 AM (MIDNIGHT)	30 MINUTES FOR TRAFFIC SHIFTS

D) 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

- 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 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.
- 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.

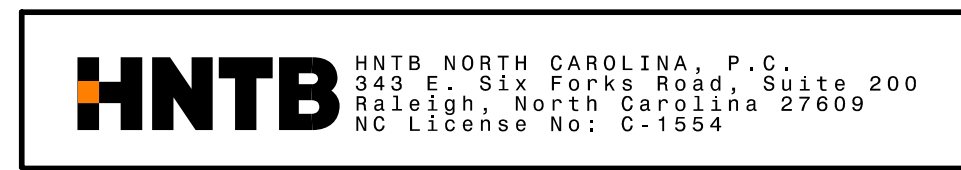
I) DO NOT WORK SIMULTANEOUSLY WITHIN 15 FT ON BOTH SIDES OF AN OPEN TRAVELWAY, RAMP, OR LOOP WITHIN THE SAME LOCATION UNLESS PROTECTED WITH GUARDRAIL OR BARRIER.


J) DO NOT INSTALL MORE THAN 1 MILE OF LANE CLOSURE ON -L- (GORDON ROAD) MEASURED FROM THE BEGINNING OF THE MERGE TAPER TO THE END OF THE LANE CLOSURE.

K) DO NOT INSTALL MORE THAN ONE (1) SIMULTANEOUS LANE CLOSURE IN ANY ONE DIRECTION ON ANY ROAD.

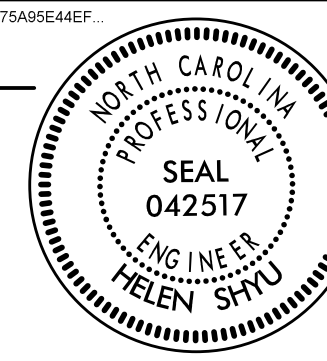
L) PROVIDE A MINIMUM OF 2500 FT BETWEEN LANE CLOSURES IN ANY DIRECTION ON ANY ROAD MEASURED FROM THE END OF ONE CLOSURE TO THE FIRST SIGN OF THE NEXT CLOSURE.

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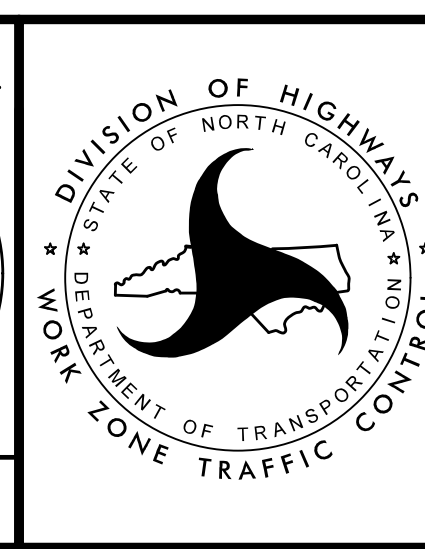


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TRANSPORTATION
MANAGEMENT PLAN

**GENERAL NOTES AND
MANAGEMENT
STRATEGIES**

GENERAL NOTES

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 OPEN TRAVEL LANE THAT HAS A DROP-OFF AS FOLLOWS:

BACKFILL DROP-OFFS THAT EXCEED 2 INCHES ON ROADWAYS WITH POSTED SPEED LIMITS OF 45 MPH OR GREATER.

BACKFILL DROP-OFFS THAT EXCEED 3 INCHES ON ROADWAYS WITH POSTED SPEED LIMITS LESS THAN 45 MPH.

BACKFILL WITH SUITABLE COMPACTED MATERIAL, AS APPROVED BY THE ENGINEER, AT NO EXPENSE TO THE DEPARTMENT.

N) DO NOT EXCEED A DIFFERENCE OF 2 INCHES IN ELEVATION BETWEEN OPEN LANES OF TRAFFIC FOR NOMINAL LIFTS OF 1.5 INCHES. INSTALL ADVANCE WARNING "UNEVEN LANES" SIGNS (W8-11) (350 FT) IN ADVANCE AND A MINIMUM OF ONCE EVERY HALF MILE THROUGHOUT THE UNEVEN AREA.

TRAFFIC PATTERN ALTERATIONS

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

SIGNING

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 TRAFFIC CONTROL 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 TRAFFIC CONTROL 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 TRAFFIC CONTROL 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.

TRAFFIC BARRIER

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 IMPACT 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:

POSTED SPEED LIMIT	MINIMUM OFFSET
40 OR LESS	15 FT
45 - 50	20 FT
55	25 FT
60 MPH or HIGHER	30 FT

TRAFFIC CONTROL DEVICES

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

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

Y) PLACE ADDITIONAL SETS OF THREE CHANNELIZING DEVICES (DRUMS, CONES, OR SKINNY DRUMS) PERPENDICULAR TO THE EDGE OF TRAVELWAY ON 500 FT CENTERS WHEN UNOPENED LANES ARE CLOSED TO TRAFFIC.

PAVEMENT MARKINGS AND MARKERS

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

ROAD NAME	MARKING	MARKER
ALL ROADS	PAINT	TEMPORARY RAISED

AA) PLACE ONE APPLICATION OF PAINT FOR TEMPORARY TRAFFIC PATTERNS. PLACE A SECOND APPLICATION OF PAINT SIX (6) MONTHS AFTER THE INITIAL APPLICATION AND EVERY SIX MONTHS AS DIRECTED BY THE ENGINEER.

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

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

DD) TRACE THE PROPOSED MONOLITHIC ISLAND LOCATIONS WITH THE PROPER COLOR PAVEMENT MARKINGS PRIOR TO INSTALLATION. PLACE DRUMS, CONES, OR TUBULAR MARKERS TO DELINEATE ANY EXISTING AND/OR PROPOSED MONOLITHIC ISLANDS AFTER REMOVAL AND/OR BEFORE INSTALLATION.

MISCELLANEOUS

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

FF) IN THE EVENT A TIE-IN CANNOT BE MADE IN ONE DAY'S TIME, BRING THE TIE-IN AREA TO AN APPROPRIATE ROADWAY ELEVATION AS DETERMINED BY THE ENGINEER. PLACE BLACK ON ORANGE "LOOSE GRAVEL" SIGNS (W8-7) AND BLACK ON ORANGE "PAVEMENT ENDS" SIGNS (W8-3) (350 FT) AND (700 FT) RESPECTIVELY IN ADVANCE OF THE UNEVEN AREAS. USE DRUMS TO DELINEATE THE EDGE OF ROADWAY ALONG UNPAVED AREAS.


GG) 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.

HH) CONTRACTOR SHALL MAINTAIN SIDEWALK ACCESS AT ALL TIMES AS STATED IN THE PHASING. CONTRACTOR SHALL BE RESPONSIBLE TO PROVIDE TEMPORARY SIDEWALKS (CONCRETE, ASPHALT, OR OTHER SUITABLE MATERIAL AS APPROVED BY THE ENGINEER) AT ALL LOCATIONS WHERE THE OPEN PEDESTRIAN TRAVELWAY HAS BEEN REMOVED FOR CONSTRUCTION OPERATIONS (UTILITIES, DRAINAGE, ETC.).

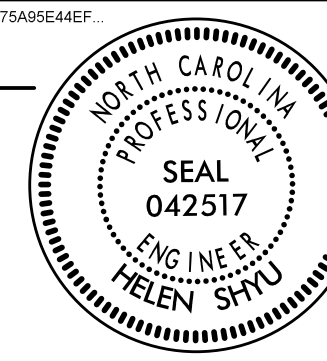
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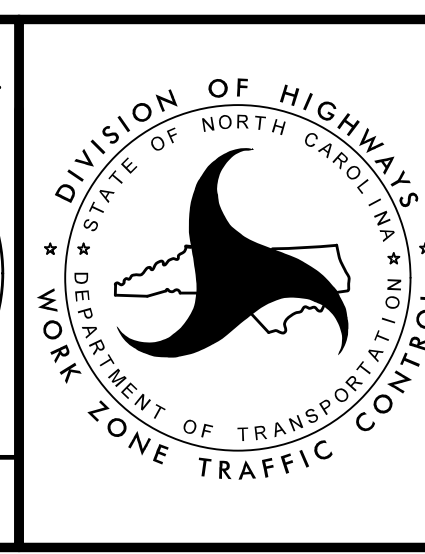


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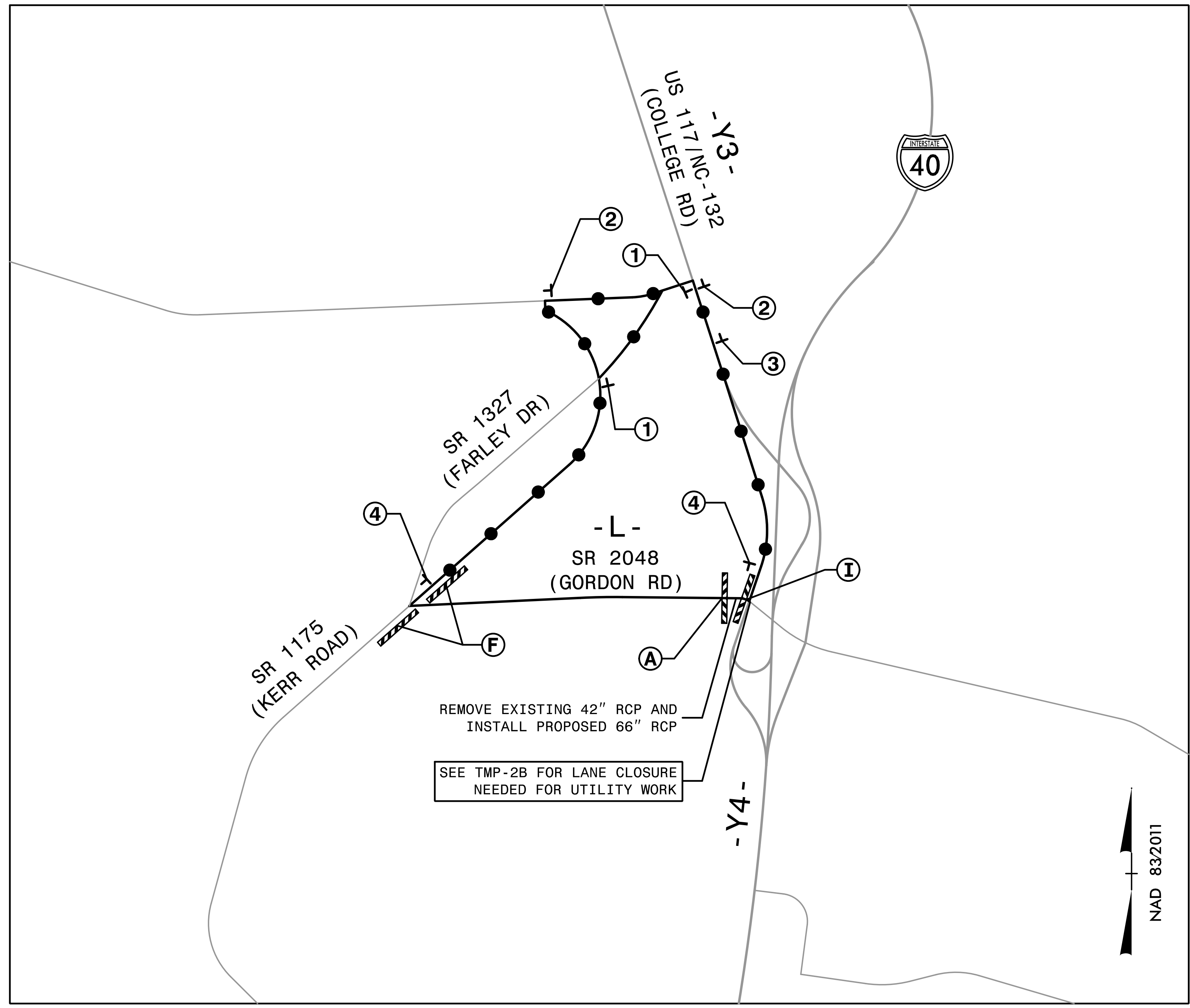


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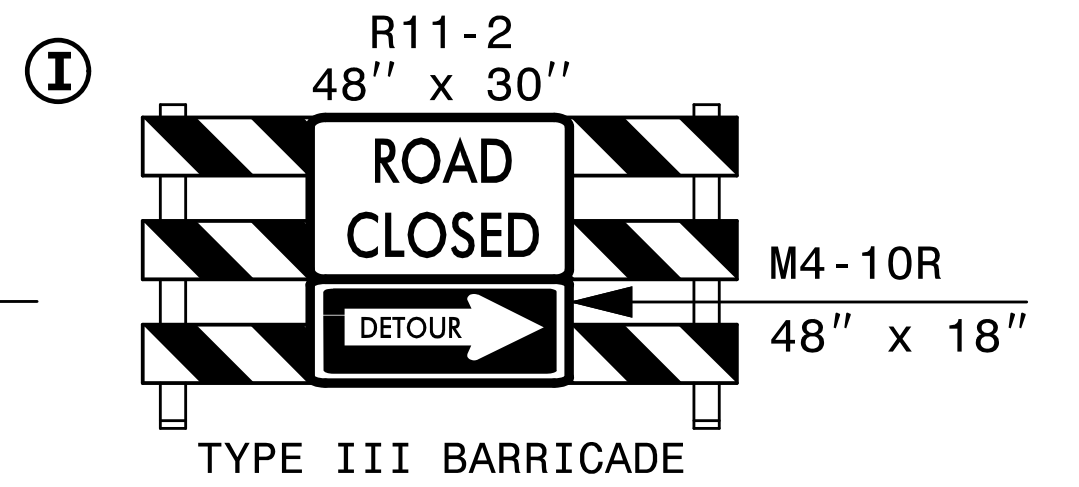
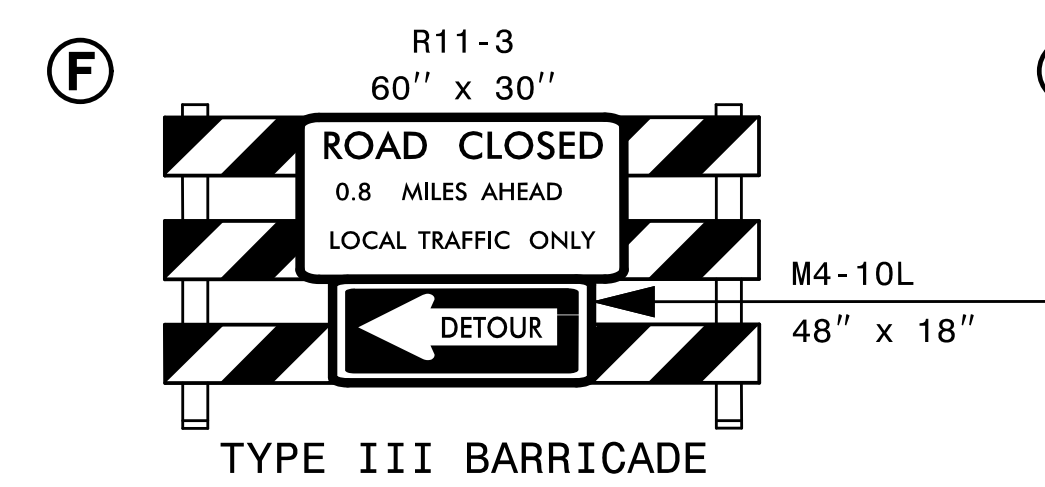
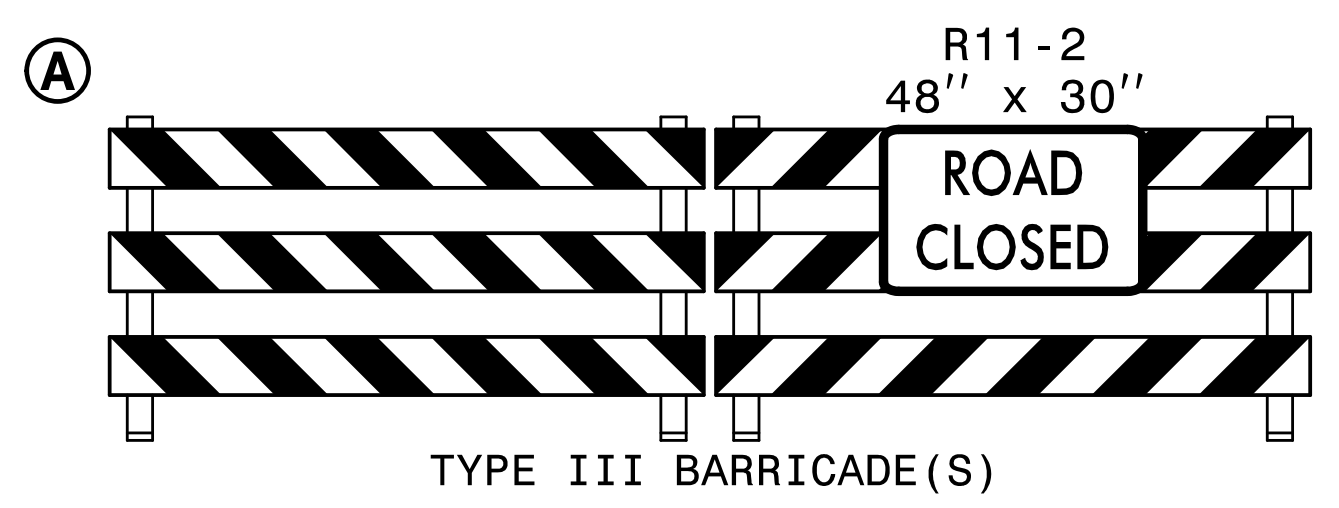
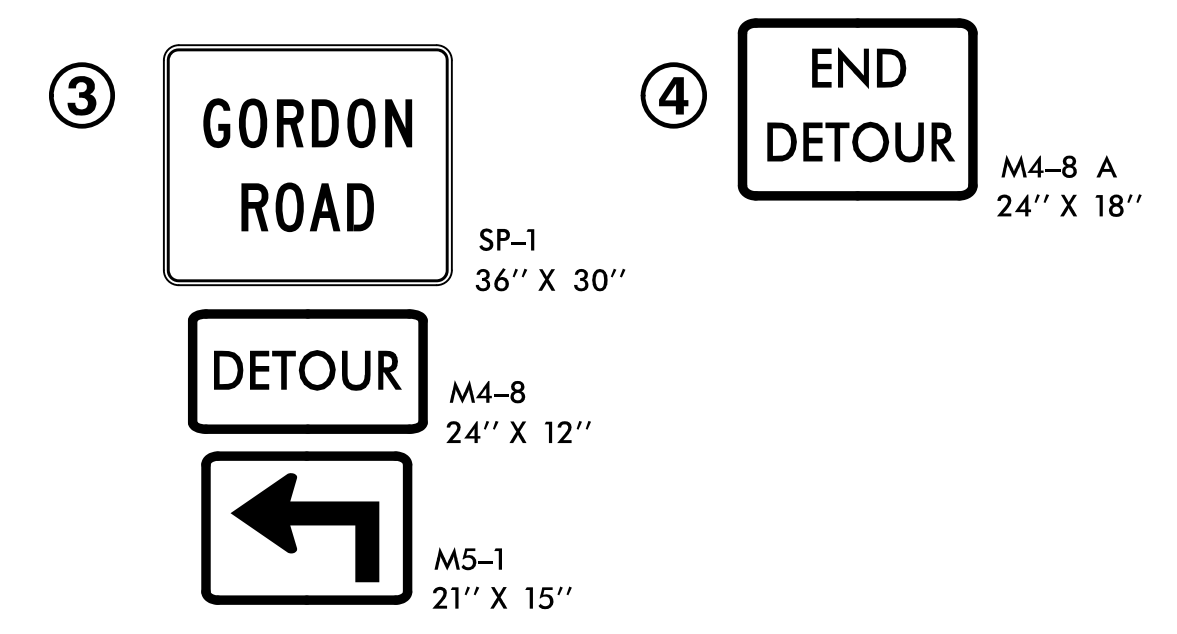
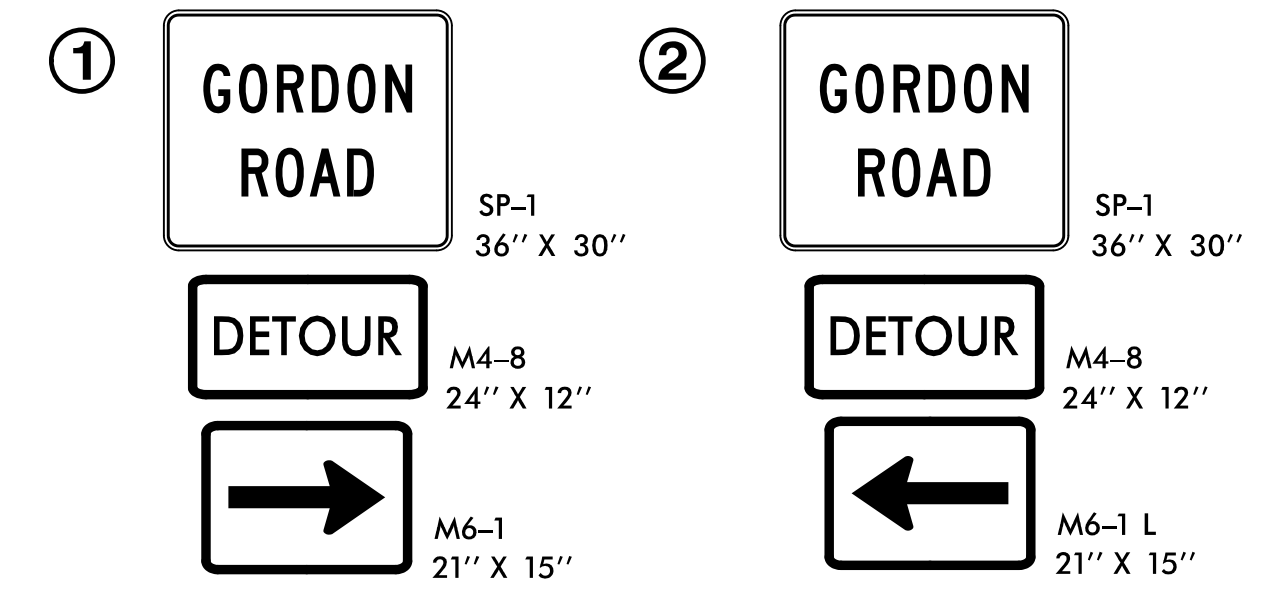


TRANSPORTATION
MANAGEMENT PLAN

GENERAL NOTES



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



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APPROVED: *Helen Shyu*
 DATE: 5/16/2024
 SEAL
 NORTH CAROLINA PROFESSIONAL SEAL 042517 ENGINEER HELEN SHYU



TRANSPORTATION MANAGEMENT PLAN
 -L-
 DETOUR AT COLLEGE ROAD

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

SIGN NUMBER: SP-1	BACKG COLOR: Fluorescent Orange	DESIGN BY: TRT	CHECKED BY: ADK	DATE: March 2022
TYPE: D	COPY COLOR: Black	PROJECT ID: U-6202	DIV: 03	
QUANTITY: 5				
SIGN WIDTH: 3'-0"				
HEIGHT: 2'-6"				
TOTAL AREA: 7.5 Sq.Ft.				
BORDER TYPE: RECESSED				
RECESS: 0.38"				
WIDTH: 0.38"				
RADII: 1.5"				
NO. Z BARS: N/A	MAT'L: 0.080" ALUMINUM			
LENGTH: N/A				

NOTES:

- Legend and border shall be direct applied non-reflective sheeting.
- Background shall be Grade B, fluorescent orange, reflective sheeting.
- To be mounted with Detour signing.

BORDER
R=1.5"
TH=0.38"
IN=0.38"

Spacing Factor is 1 unless specified otherwise

Letter positions											Series/Size
Letter spacings are to start of next letter											Text Length
	G	O	R	D	O	N					C 2000
4.9	4.4	4.7	4.4	4.4	4.7	3.4	4.9				26.1
	R	O	A	D							C 2000
9.7	4.3	4.3	4.7	3.4	9.7						16.6

SIGN NUMBER: SP-2	BACKG COLOR: Fluorescent Orange	DESIGN BY: TRT	CHECKED BY: ADK	DATE: December 2023
TYPE: D	COPY COLOR: Black	PROJECT ID: U-6202	DIV: 03	
QUANTITY: 5				
SIGN WIDTH: 3'-0"				
HEIGHT: 2'-6"				
TOTAL AREA: 7.5 Sq.Ft.				
BORDER TYPE: RECESSED				
RECESS: 0.38"				
WIDTH: 0.38"				
RADII: 1.5"				
NO. Z BARS: N/A	MAT'L: 0.080" ALUMINUM			
LENGTH: N/A				

NOTES:

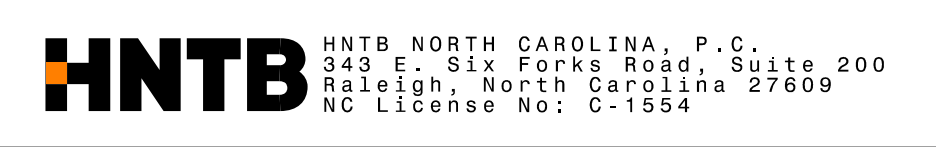
- Legend and border shall be direct applied non-reflective sheeting.
- Background shall be Grade B, fluorescent orange, reflective sheeting.
- To be mounted with Detour signing.

BORDER
R=1.5"
TH=0.38"
IN=0.38"

Spacing Factor is 1 unless specified otherwise

Letter positions											Series/Size
Letter spacings are to start of next letter											Text Length
	A	S	H	E	T	O	N				C 2000
3.5	4.4	4.4	4.7	3.6	3.8	4.7	3.4	3.5			28.9
	R	O	A	D							C 2000
9.7	4.3	4.3	4.7	3.4	9.7						16.6

4/2/2024
 U:\6202_fc_TMP-02A.Gordon-Detour-Sign.dgn
 \$\$\$DATE\$\$\$



APPROVED: *Helen Shyu*

DATE: 5/16/2024

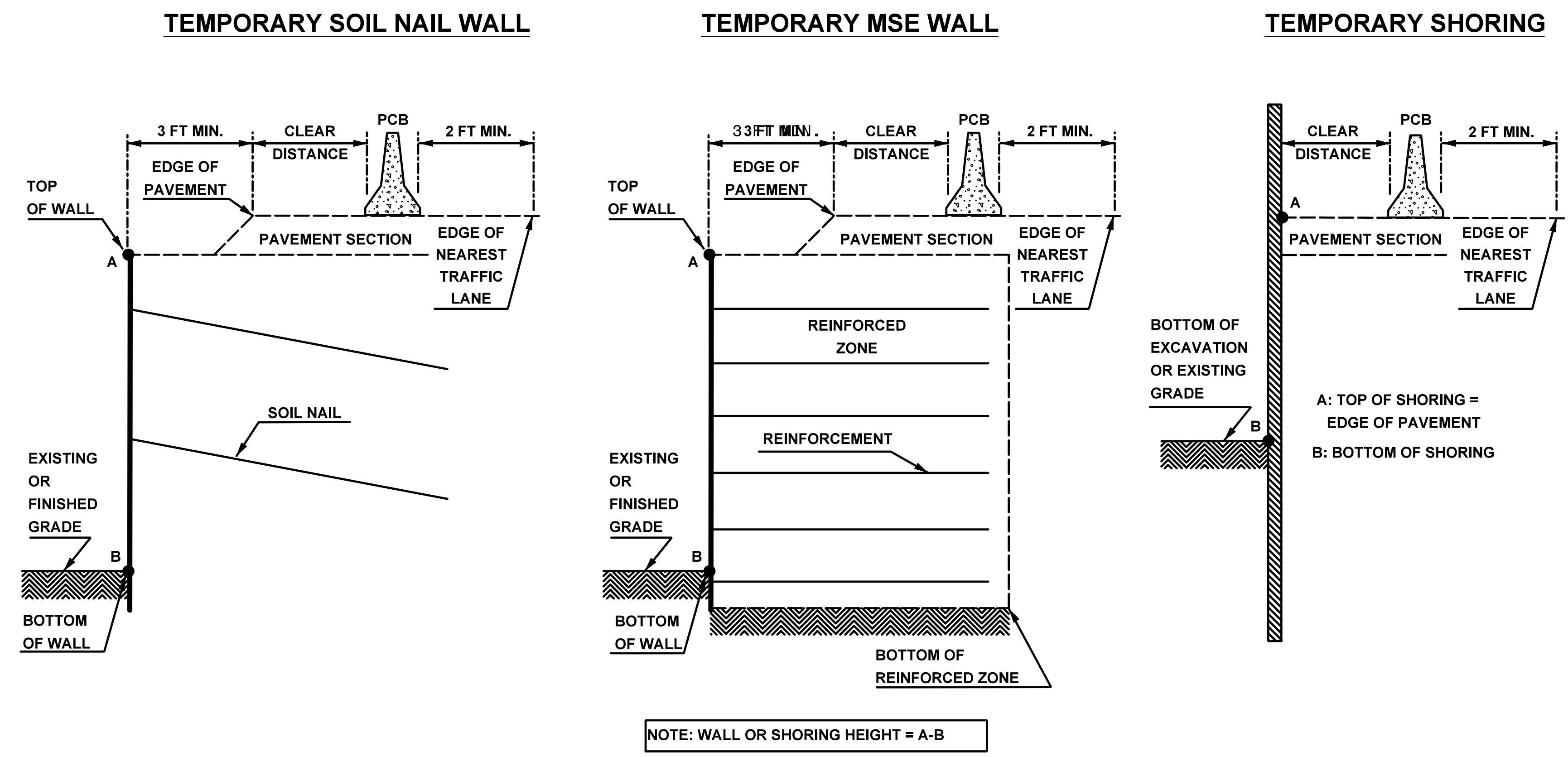
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TRANSPORTATION
MANAGEMENT PLAN

TEMPORARY SIGN
DESIGN



NOTE: WALL OR SHORING HEIGHT = A-B

FIGURE A

NOTES

- REFER TO THE TRAFFIC CONTROL PLANS FOR TEMPORARY SHORING LOCATIONS AND NOTES.
- REFER TO THE "TEMPORARY SHORING" STANDARD PROVISION FOR INFORMATION ABOUT TEMPORARY SHORING AND PORTABLE CONCRETE BARRIER (PCB).
- 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).
- 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.
- 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.
- USE NCDOT PORTABLE CONCRETE BARRIER (PCB) IN ACCORDANCE WITH ROADWAY STANDARD DRAWING NO. 1170.01 AND SECTION 1170 OF THE STANDARD SPECIFICATIONS.
- 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.
- 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.
- TABLE SHOWN IN FIGURE B IS BASED ON NCDOT RESEARCH PROJECT NO. 2005-010 WITH VEHICLE TYPE USED FOR NCHRP 350 CRASH TESTS.

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	
Anchored PCB	Asphalt	All Offsets	24 for All Design Speeds					
		Concrete (including bridge approach slabs)	All Offsets	12 for All Design Speeds				

* See Figure Below

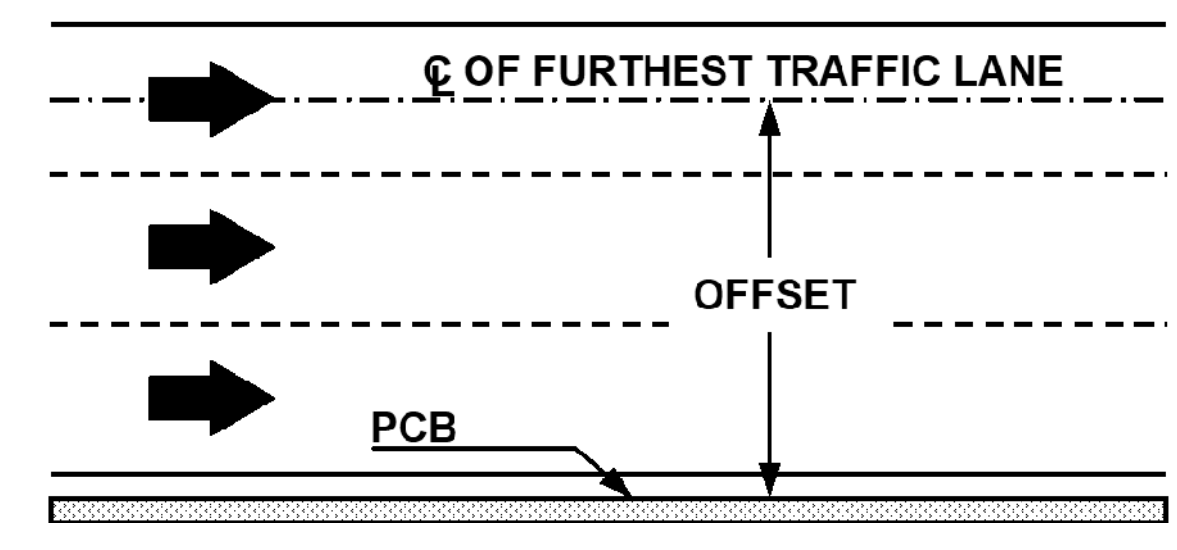
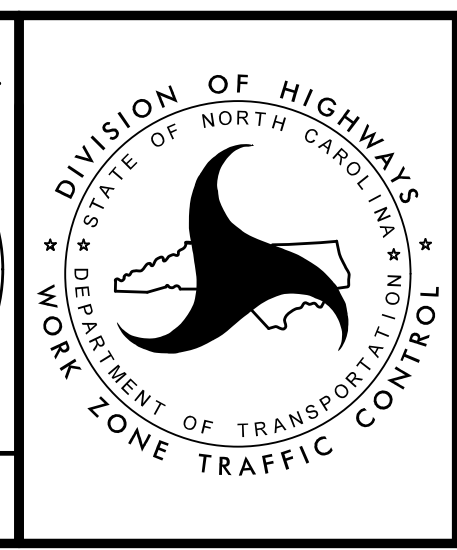


FIGURE B

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APPROVED: *Helen Shyu*
 DATE: 5/16/2024
 SEAL



PORTABLE CONCRETE BARRIER
 AT
 TEMPORARY SHORING LOCATIONS

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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 2 AND 3 OF 3), INSTALL WORK ZONE ADVANCE WARNING SIGNS ON -L-, -Y3-, -Y4RPD-, -Y14-, AND -Y16-.

NOTE: PHASE I STEPS 2 THRU 5 MAY BE DONE SIMULTANEOUSLY.

STEP 2: -L- FROM STA 14+50+/- TO 71+00+/-: COMPLETE PHASE I STEPS 2A THRU 2E. PHASE I STEPS 2C THRU 2E MAY BE DONE AT THE SAME TIME AS STEP 2B.

STEP 2A: COLLEGE ROAD AND I-40 RAMPS: INSTALL TEMPORARY SIGNAL AT -L- AND -Y3-. USING RSD 1101.02 (SHEET 3 AND 7 OF 19), INSTALL TEMPORARY PAVEMENT MARKINGS AS SHOWN ON TMP-5 BETWEEN -Y3-/-Y4RPC-/-Y4LPC- AND -Y4RPA-/-Y4RPD-. SHIFT TRAFFIC TO TEMPORARY PATTERN AND ACTIVATE TEMP SIGNAL.

STEP 2B: IN ADDITION TO TEMP SIGNAL IN STEP 2A, INSTALL TEMP SIGNALS ON -L- AT -Y4RPA-/-Y4RPD- AND -Y6-/-Y7-. USING RSD 1101.02 (SHEET 1, 2, 3 AND 7 OF 19), REMOVE EXISTING MEDIAN ISLANDS THEN WEDGE AND WIDEN -L- FROM STA 14+50+/- TO -Y11-(LT) AND STA 66+52+/- (RT) AND ADJACENT Y-LINES. USE TEMPORARY PAVEMENT AS LEVELING COURSE TO MAINTAIN TRAFFIC IN EXISTING PATTERN. AWAY FROM TRAFFIC, CONSTRUCT -L- STA 66+52+/- TO STA 71+00+/- AND TEMPORARY PAVEMENT. (SEE TMP-4 THRU TMP-8 AND TMP-16 FOR DETAILS.)

STEP 2C: INSTALL AND COVER DETOUR SIGNS AND DEVICES AS SHOWN ON TMP-2. COMPLETE PHASE I STEPS 2D AND 2E.

COMPLETE THE REQUIREMENTS OF PHASE I STEP 2D AND 2E IN ANY ONE (1) WEEKEND, FROM FRIDAY 8:00 P.M. TO THE FOLLOWING MONDAY 6:00 A.M. (SEE INTERMEDIATE CONTRACT TIME AND LIQUIDATED DAMAGES)

STEP 2D: PROPOSED 66" PIPE AT -L- AND -Y3- INTERSECTION: UNCOVER DETOUR SIGNS AS SHOWN ON TMP-2. IMPLEMENT TEMP SIGNAL AND CLOSE -L-. CONSTRUCT PROPOSED 66" PIPE AND OPEN -L- TO TRAFFIC. (SEE TMP-5)

STEP 2E: UTILITY WORK: WHILE -L- IS CLOSED AT -Y3- INTERSECTION IN PHASE I STEP 2D, IMPLEMENT LANE CLOSURE IN EASTBOUND LANE AS SHOWN ON TMP-2B. COMPLETE UTILITY WORK IN THE AREA AS NEEDED. WHEN THE 66" PIPE IS COMPLETED AND -L- IS OPENED TO TRAFFIC, LANE CLOSED FOR UTILITY WORK SHOULD BE OPEN TO TRAFFIC AS WELL.

STEP 3: -L- FROM STA 71+00+/- TO -Y18-: INSTALL TEMP SIGNALS ON -L- AT -Y14- AND -Y16-. USING RSD 1101.02 (SHEET 1, 2, 3 AND 7 OF 19), WEDGE AND WIDEN -L- FROM STA 71+87+/- TO STA 95+22+/- (RT) AND -Y17-. USE TEMPORARY PAVEMENT AS LEVELING COURSE TO MAINTAIN TRAFFIC IN EXISTING PATTERN. AWAY FROM TRAFFIC, CONSTRUCT -L- STA 71+00+/- TO STA 71+87+/- (SEE TMP-8 THRU TMP-10 FOR DETAILS.)

STEP 4: CULVERT AT -L- STA 98+33+/-: USING RSD 1101.02 (SHEET 1 OF 19), PLACE TEMPORARY PAVMENT MARKINGS AS SHOWN ON TMP-10 AND 11 AND SHIFT TRAFFIC TO NARROW LANES. USING RSD 1101.02 (SHEET 1 OF 19), PLACE PCB AS SHOWN ON TMP-10. AWAY FROM TRAFFIC, INSTALL SHORING #1, REMOVE PART OF EXISTING CULVERT, INSTALL PORTION OF PROPOSED CULVERT, INSTALL SHORING #2, AND AS MUCH OF -L- (RT) AND TEMPORARY GUARDRAIL AS POSSIBLE. USING RSD 1101.02 (SHEET 1 OF 19) AS NEEDED, CONSTRUCT -L- FROM STA 95+22+/- TO 102+44+/- (RT). (SEE TMP-10 THRU TMP-11 FOR DETAILS.)

STEP 5: -L- FROM STA 102+44+/- TO END: INSTALL TEMP SIGNAL ON -L- AT -Y26-. USING RSD 1101.02 (SHEET 1, 2, 3 AND 7 OF 19), WEDGE AND WIDEN -L- FROM STA 102+44+/- TO STA 150+41.89 AND ADJACENT Y-LINES. USE TEMPORARY PAVEMENT AS LEVELING COURSE TO MAINTAIN TRAFFIC IN EXISTING PATTERN. UTILIZE WIDENED PAVEMENT TO SHIFT TRAFFIC WITH DRUMS WHILE INSTALLING 48" PIPE NEAR -Y21- IN A CONTINUOUS MANNER. (SEE TMP-11 THRU TMP-15 FOR DETAILS.)

PHASE II

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

STEP 1: -L- SHIFT FROM STA 14+50+/- TO 59+00+/-: COMPLETE PHASE I STEP 2. INSTALL TEMPORARY SIGNAL ON -L- AT -Y3- AND -Y6-/-Y7-. USING RSD 1101.02 (SHEET 1, 2, 3, AND 7 OF 19), TEMPORARY PAVEMENT MARKINGS AS SHOWN ON TMP-17 THRU 20 AND TMP-31. SHIFT TRAFFIC TO PHASE II PATTERN.

STEP 2: -L- MEDIAN: USING RSD 1101.02 (SHEET 1, 2, 3, AND 7 OF 19), CONSTRUCT MEDIAN CONCRETE ISLANDS AND MEDIAN CURB AND GUTTERS BETWEEN -Y3- AND -L- STA 49+72.86+/- (SEE TMP-18 THRU TMP-20 FOR DETAILS.)

PHASE IIA

NOTE: PHASE IIA MAY BE DONE AT THE SAME TIME AS PHASE II STEP 2

STEP 1: -L- SHIFT: COMPLETE PHASE I STEPS 2 THRU 5 AND PHASE II STEP 1. INSTALL TEMPORARY SIGNAL ON -L- AT -Y14-, -Y16-/-Y17-, -Y24-, AND -Y26-. INSTALL DETOUR SIGNS FOR ASHETON ROAD AS SHOWN ON TMP-23 AND 24. USING RSD 1101.02 (SHEET 1, 2, 3, AND 7 OF 19), INSTALL TEMPORARY PAVEMENT MARKINGS AS SHOWN ON TMP-21 THRU 30. INSTALL PCB AS SHOWN ON TMP-23. USE TMA IF NEEDED WHEN INSTALLING TEMPORARY GUARDRAIL END UNITS, THEN SHIFT TRAFFIC TO PHASE IIA PATTERN AND CLOSE -Y13- ACCESS TO GORDON ROAD.

NOTE: PHASE IIA STEPS 2 THRU 5 MAY BE DONE SIMULTANEOUSLY UNLESS STATED OTHERWISE.

STEP 2: -L- (LT) AND -Y13-: USING RSD 1101.02 (SHEET 1, 2, 3, AND 7 OF 19), WEDGE AND WIDEN -L- FROM -Y11- THRU STA 95+22+/- (LT) AND -Y12-, -Y14-, -Y15-, AND -Y16-. AWAY FROM TRAFFIC, CONSTRUCT -L- FROM STA 66+52+/- TO STA 71+87+/- AND -Y13-. (SEE TMP-22 THRU TMP-26 FOR DETAILS.)

STEP 3: CULVERT AT -L- STA 98+33+/-: AFTER TRAFFIC SHIFTS TO PHASE IIA PATTERN IN PHASE IIA STEP 1, AWAY FROM TRAFFIC REMOVE REMAINING CULVERT AND COMPLETE PROPOSED CULVERT. AWAY FROM TRAFFIC AND MAINTAINING DRIVEWAY ACCESS WITH GRAVEL AS NEEDED, COMPLETE -L- (LT) BETWEEN STA 95+22+/- TO 101+50+/- (SEE TMP-25 THRU TMP-26 FOR DETAILS.)

STEP 4: -L- MEDIAN: WHERE CONTRACTOR HAS COMPLETED PHASE IIA STEP 2, CONTRACTOR MAY THEN USE RSD 1101.02 (SHEET 1, 2, 3, AND 7 OF 19) TO CONSTRUCT MEDIAN CONCRETE ISLANDS AND MEDIAN CURB AND GUTTERS FROM:
- -L- STA 49+72.86+/- TO STA 60+23+/- (SEE TMP-21)
- -Y12- (SEE TMP-23)
- -L- STA 71+87+/- TO STA 74+16+/- (SEE TMP-23)
- -Y14- (SEE TMP-24)
- -L- STA 79+00+/- TO STA 87+62+/- (SEE TMP-24 AND 25)
- -Y15- (SEE TMP-24)
- -L- STA 114+76+/- TO END OF PROJECT (SEE TMP-27 TO 30)
- -Y25- (SEE TMP-28)
- -Y26- (SEE TMP-29)

STEP 5: -Y19-: AFTER TRAFFIC SHIFTS TO PHASE IIA PATTERN IN PHASE IIA STEP 1, USE FLAGGERS AND GRAVEL TO CONSTRUCT -Y19- AND -L- BETWEEN STA 101+50+/- AND STA 102+49+/- (LT). (SEE TMP-26)

PHASE III

NOTE: PHASE III MAY BE DONE AT THE SAME TIME AS PHASE II STEP 2

STEP 1: -L- SHIFT: COMPLETE ALL STEPS IN PHASE IIA. INSTALL TEMPORARY SIGNAL ON -L- AT -Y14-, -Y16-/-Y17-, AND -Y24-. USING RSD 1101.02 (SHEET 3 AND 7 OF 19), INSTALL TEMPORARY PAVEMENT MARKINGS AS SHOWN ON TMP-32 THRU 38. SHIFT TRAFFIC TO PHASE III PATTERN.

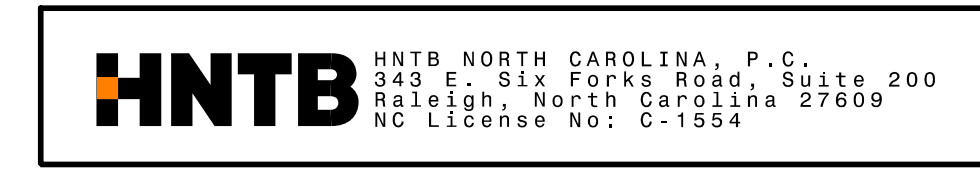
STEP 2: -L- MEDIAN: AFTER TRAFFIC SHIFTS TO PHASE III PATTERN, USE FLAGGERS AND RSD 1101.02 (SHEET 3 AND 7 OF 19) TO COMPLETE MEDIAN ISLANDS ON -L-.


PHASE IV

STEP 1: COMPLETE ALL REMAINING WORK. USING RSD 1101.02 (SHEET 1, 2, 3, AND 7 OF 19), PLACE FINAL LAYER OF SURFACE AND FINAL PAVEMENT MARKINGS AND MARKERS.

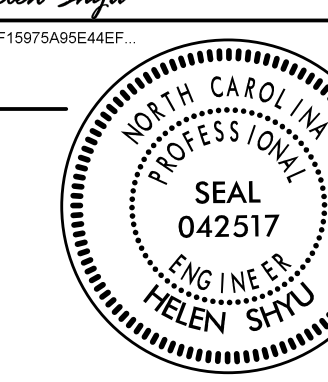
STEP 2: REMOVE ALL TRAFFIC CONTROL DEVICES.

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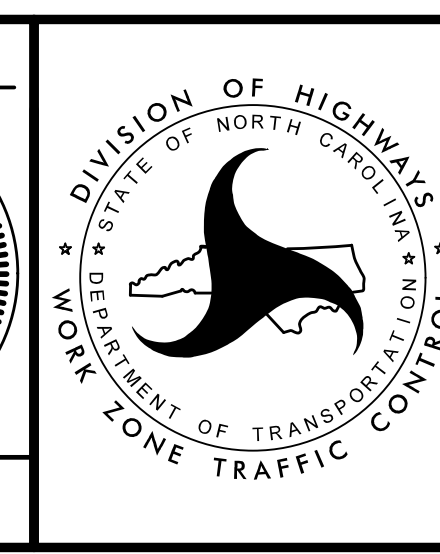


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DATE: 5/16/2024

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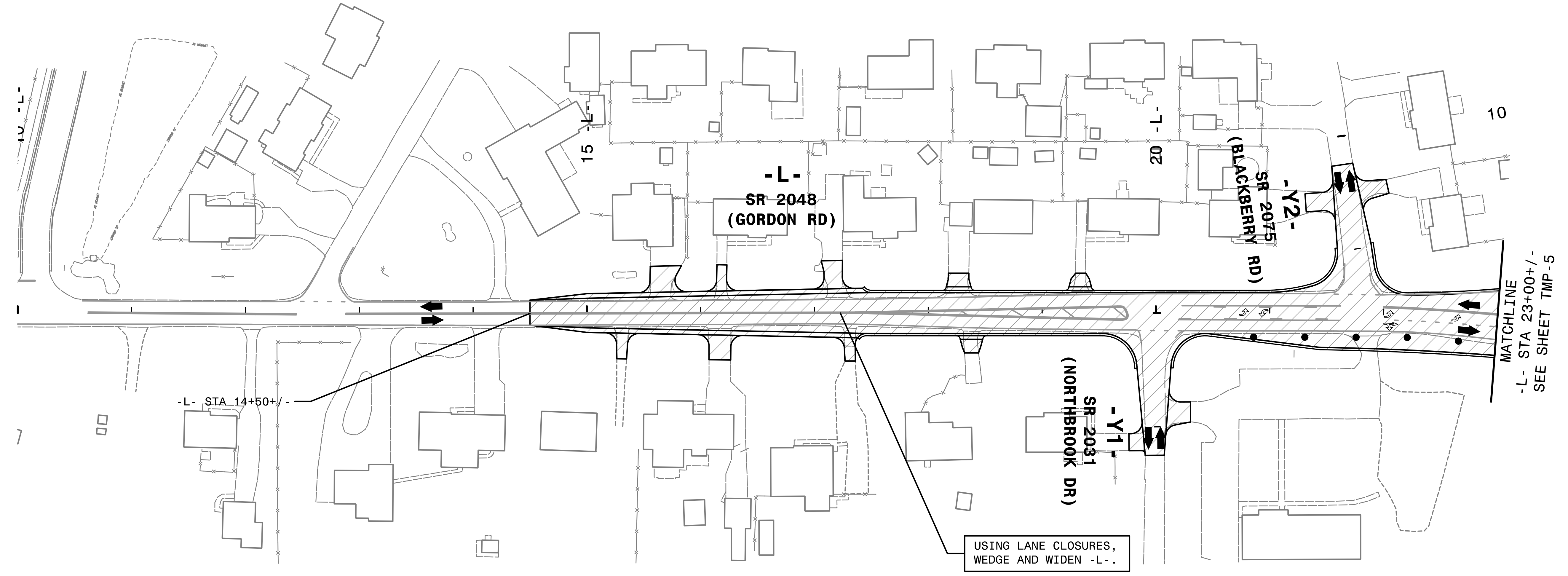
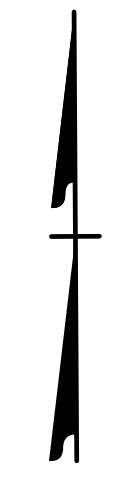


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TRANSPORTATION MANAGEMENT PLAN

PHASING



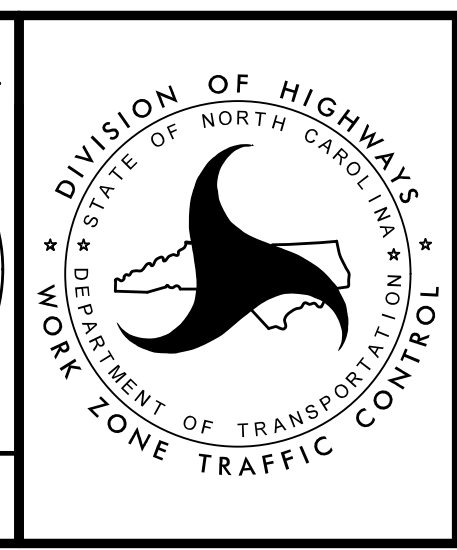
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Professional Engineer
 DATE: 5/16/2024

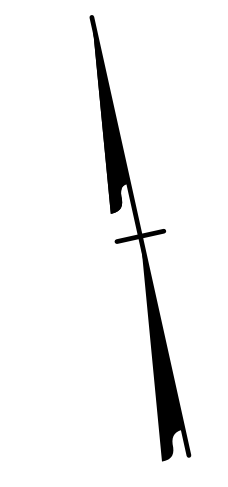
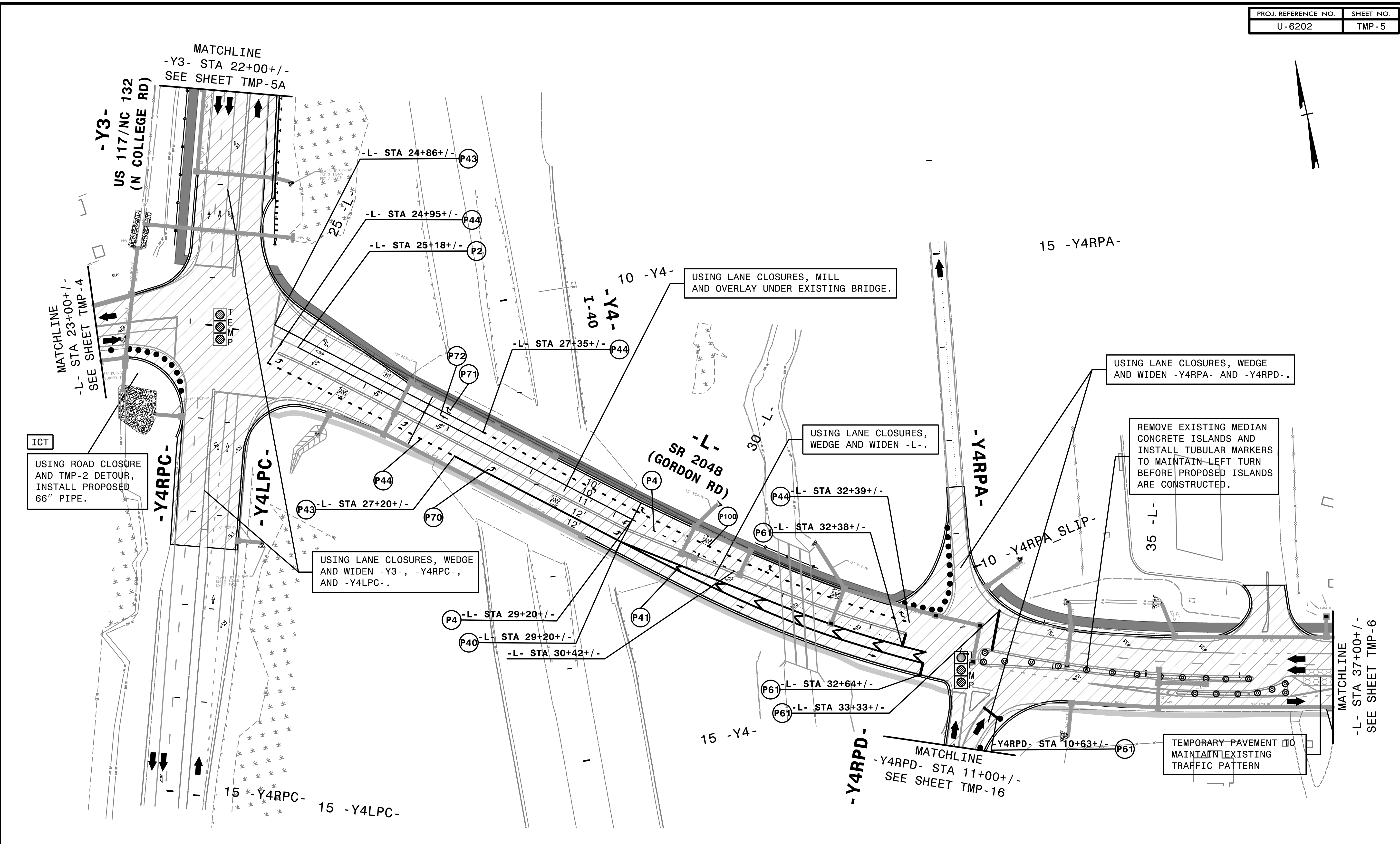
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TRANSPORTATION
MANAGEMENT PLAN

PHASE I
DETAIL



ICT
USING ROAD CLOSURE AND TMP-2 DETOUR, INSTALL PROPOSED 66" PIPE.

USING LANE CLOSURES, WEDGE AND WIDEN -Y3-, -Y4RPC-, AND -Y4LPC-.

USING LANE CLOSURES, MILL AND OVERLAY UNDER EXISTING BRIDGE.

USING LANE CLOSURES, WEDGE AND WIDEN -L-.

USING LANE CLOSURES, WEDGE AND WIDEN -Y4RPA- AND -Y4RPD-.


REMOVE EXISTING MEDIAN CONCRETE ISLANDS AND INSTALL TUBULAR MARKERS TO MAINTAIN LEFT TURN BEFORE PROPOSED ISLANDS ARE CONSTRUCTED.

TEMPORARY PAVEMENT TO MAINTAIN EXISTING TRAFFIC PATTERN

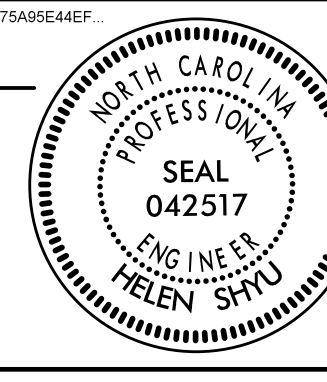
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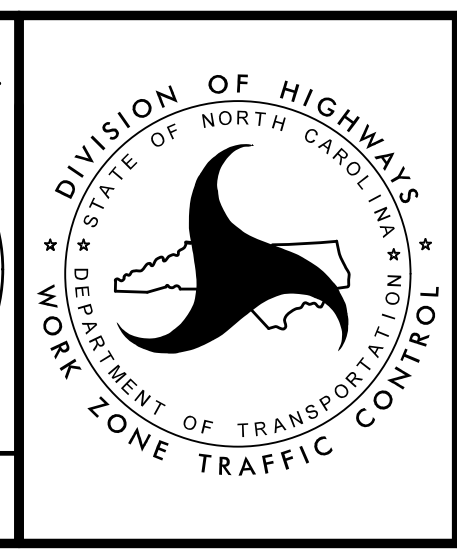


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DATE: 5/16/2024

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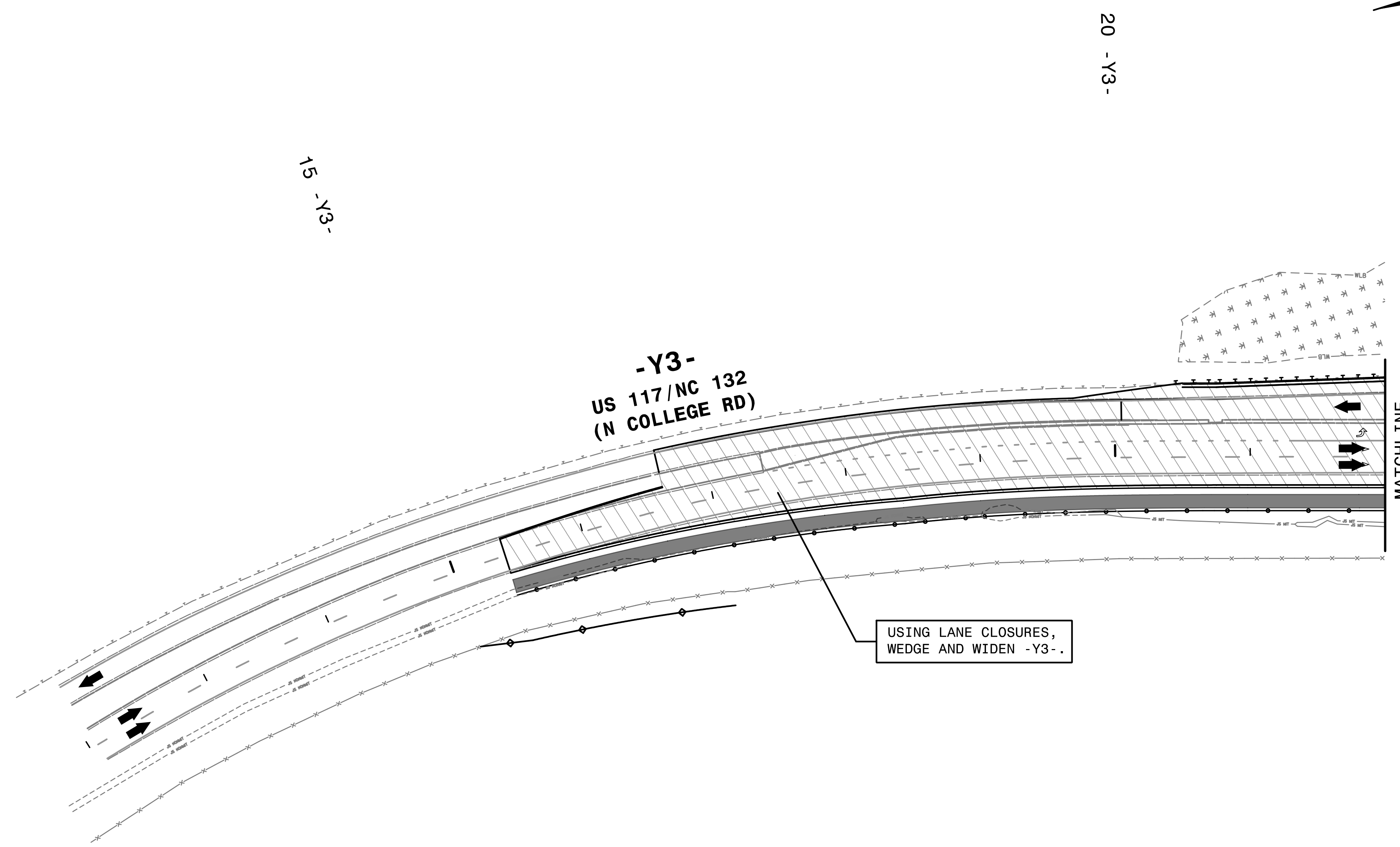
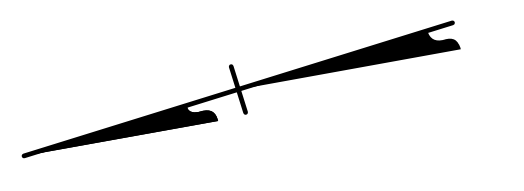


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TRANSPORTATION MANAGEMENT PLAN

PHASE I
DETAIL



USING LANE CLOSURES,
WEDGE AND WIDEN -Y3-.

MATCHLINE
-Y3- STA 22+00+/- -
SEE SHEET TMP-5

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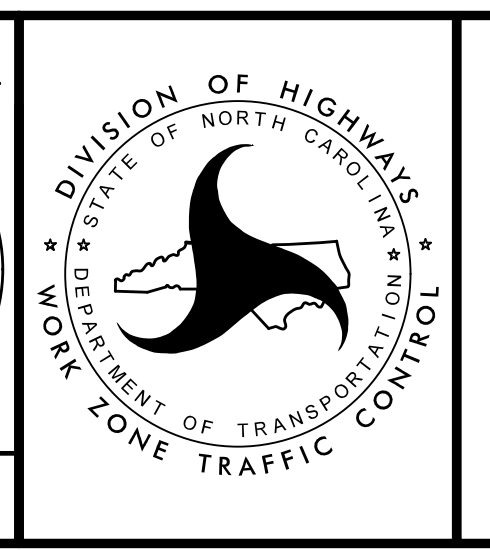
HNTB HNTB NORTH CAROLINA, P.C.
343 E. Six Forks Road, Suite 200
Raleigh, North Carolina 27609
NC License No: C-1554

APPROVED: *Helen Shyu*
DATE: 5/16/2024

SEAL

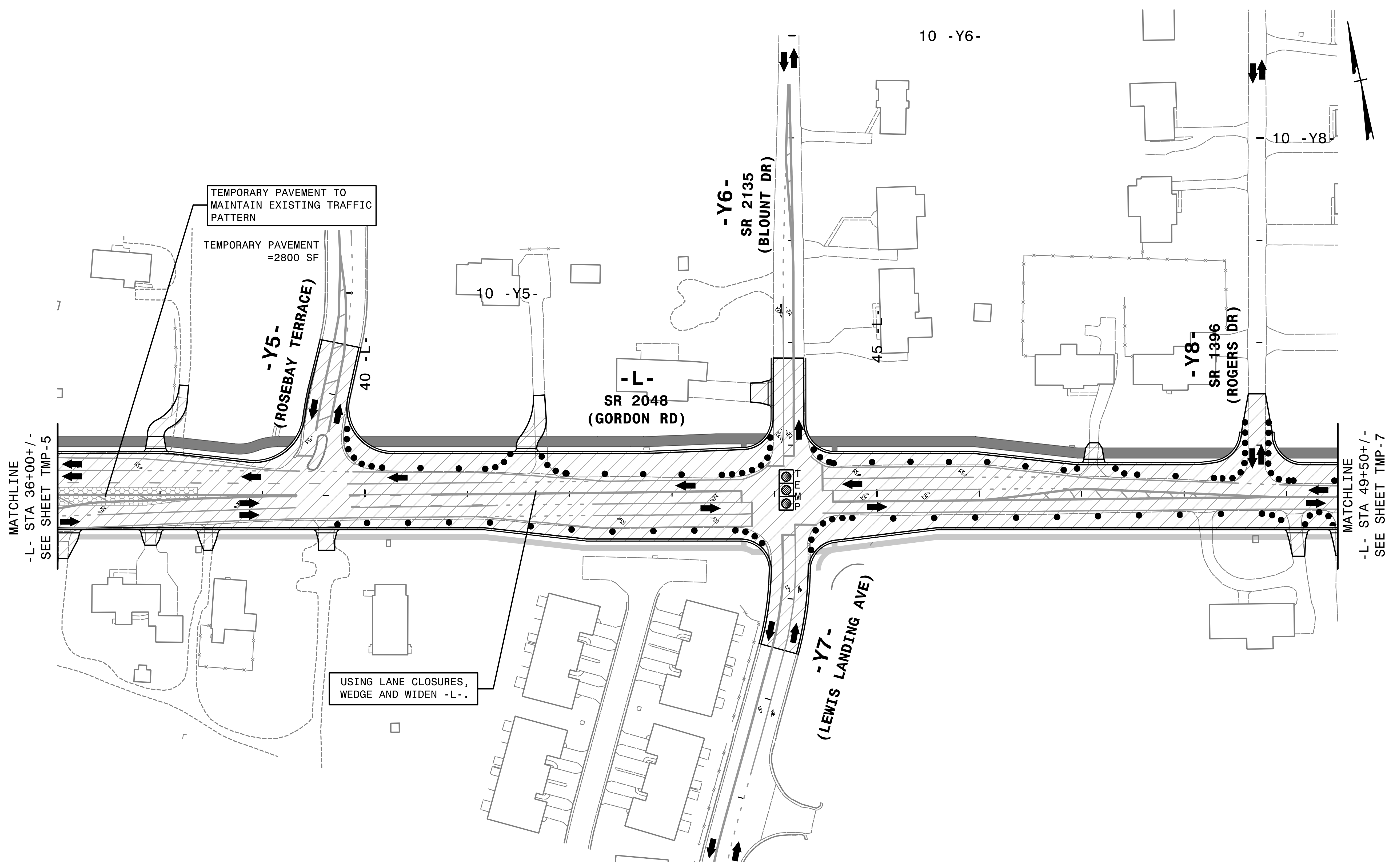
Professional Engineer Seal: NORTH CAROLINA PROFESSIONAL ENGINEER HELEN SHYU 042517

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TRANSPORTATION
MANAGEMENT PLAN

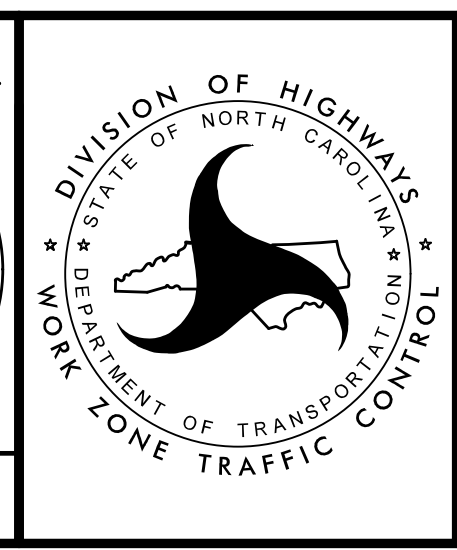
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DETAIL



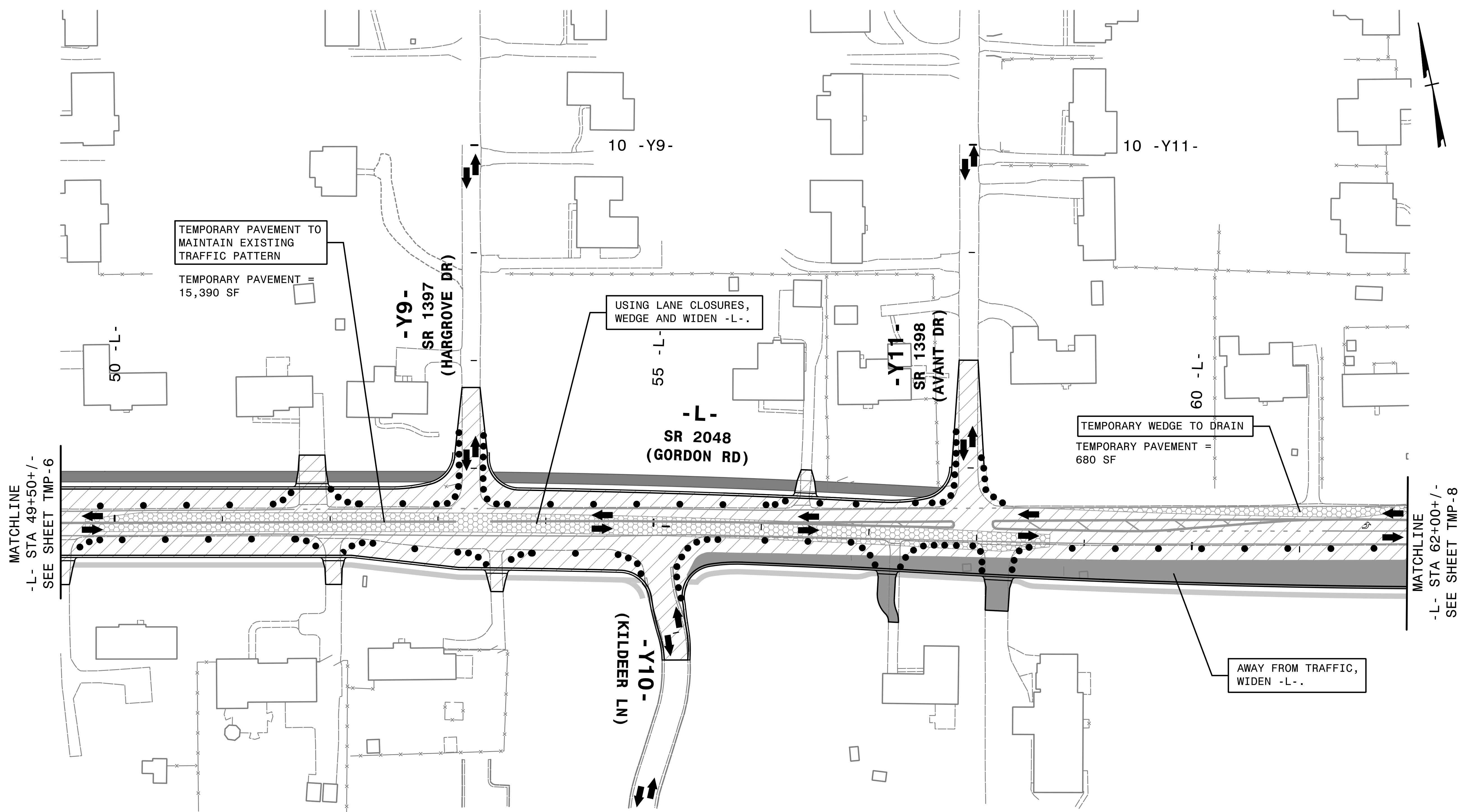
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 4/2/2024



APPROVED: *Helen Shyu*
 DATE: 5/16/2024
 SEAL
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TRANSPORTATION
 MANAGEMENT PLAN
 PHASE I
 DETAIL



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 DATE: 5/16/2024

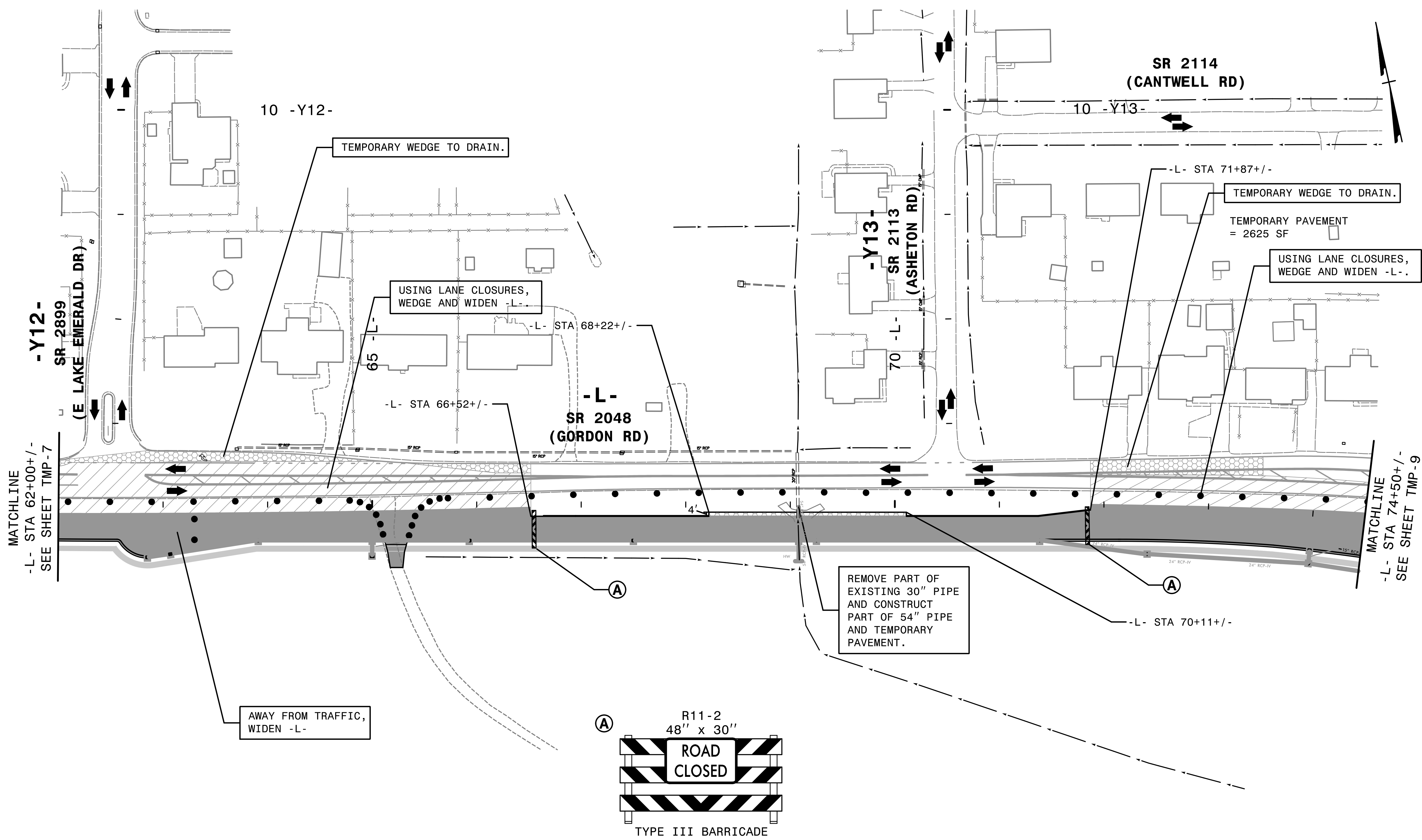
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**TRANSPORTATION
MANAGEMENT PLAN**

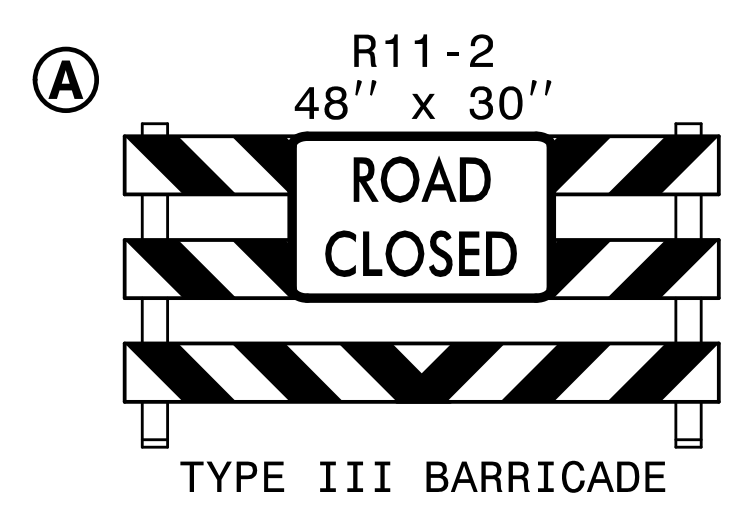
**PHASE I
DETAIL**



MATCHLINE
-L- STA 62+00+/-
SEE SHEET TMP-7

MATCHLINE
-L- STA 74+50+/-
SEE SHEET TMP-9

AWAY FROM TRAFFIC,
WIDEN -L-



NOTE: DRAINAGE INFORMATION SHOWN IS FOR CONCEPT ONLY.

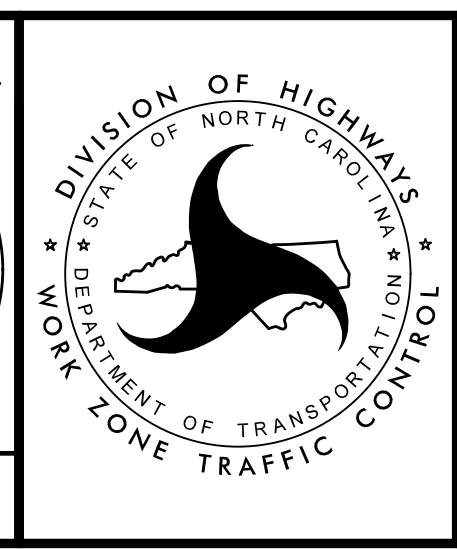
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348 E. Six Forks Road, Suite 200
Raleigh, North Carolina 27609
NC License No: C-1554

APPROVED: *Helen Shyu*
DATE: 5/16/2024

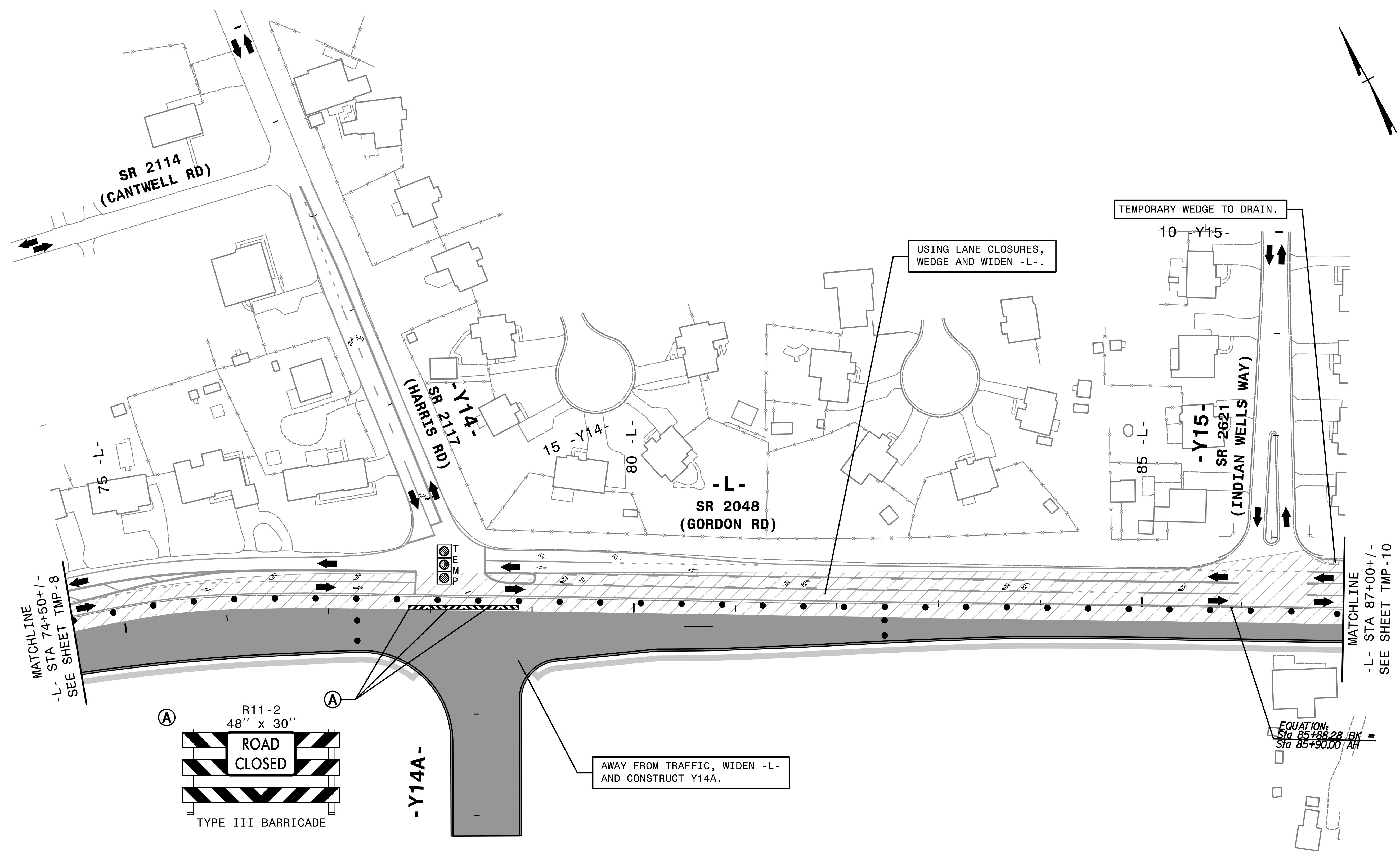
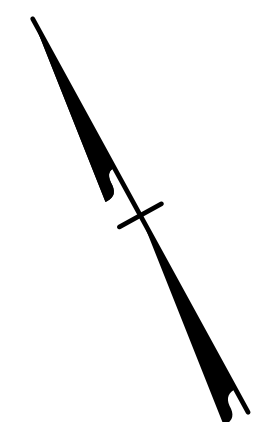
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TRANSPORTATION
MANAGEMENT PLAN

PHASE I
DETAIL



MATCHLINE
-L- STA 74+50+/-
SEE SHEET TMP-8

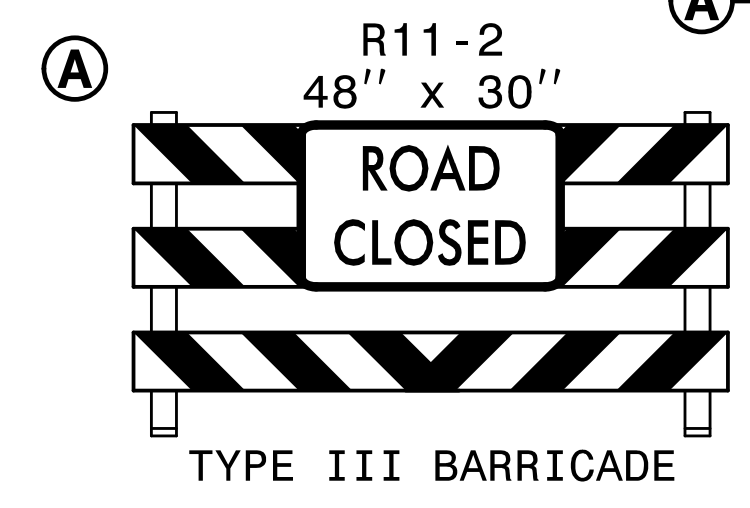
MATCHLINE
-L- STA 87+00+/-
SEE SHEET TMP-10

USING LANE CLOSURES,
WEDGE AND WIDEN -L-.

TEMPORARY WEDGE TO DRAIN.

AWAY FROM TRAFFIC, WIDEN -L-
AND CONSTRUCT Y14A.

EQUATION:
Sta 85+88.28 BK =
Sta 85+90.00 AH



-Y14A-

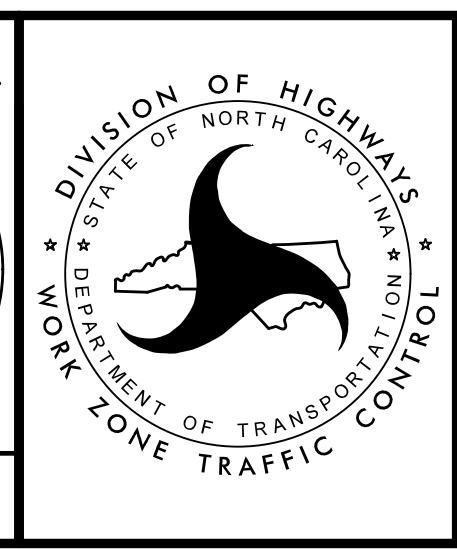
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DATE: 5/16/2024

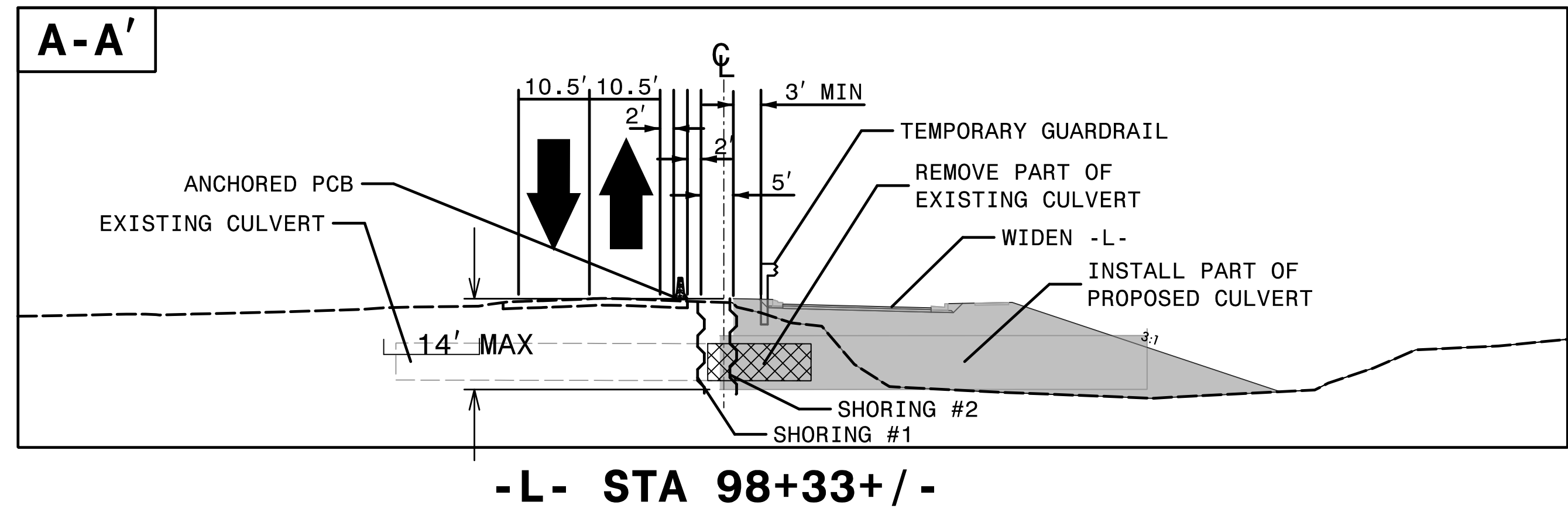
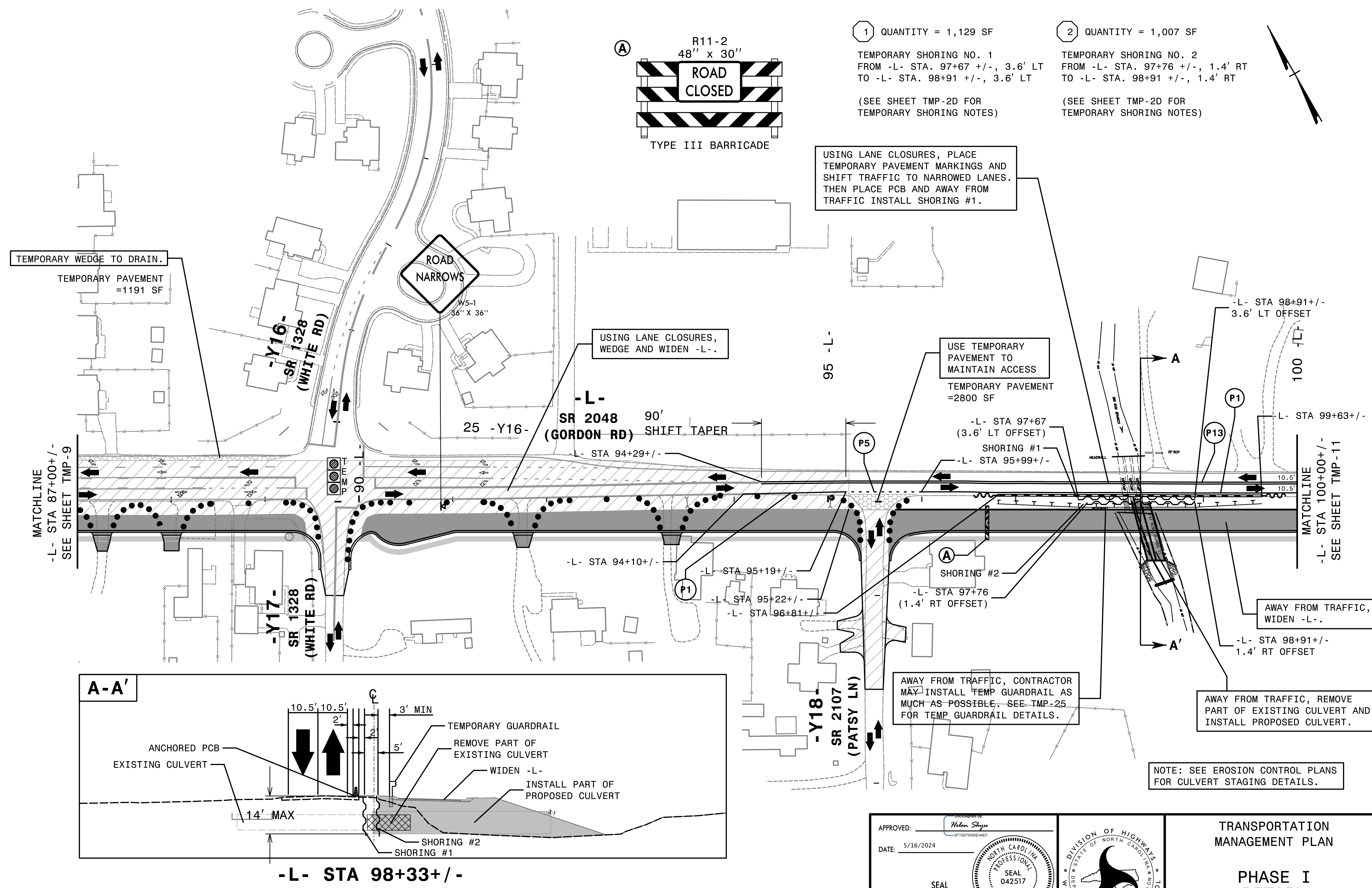
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TRANSPORTATION
MANAGEMENT PLAN

PHASE I
DETAIL



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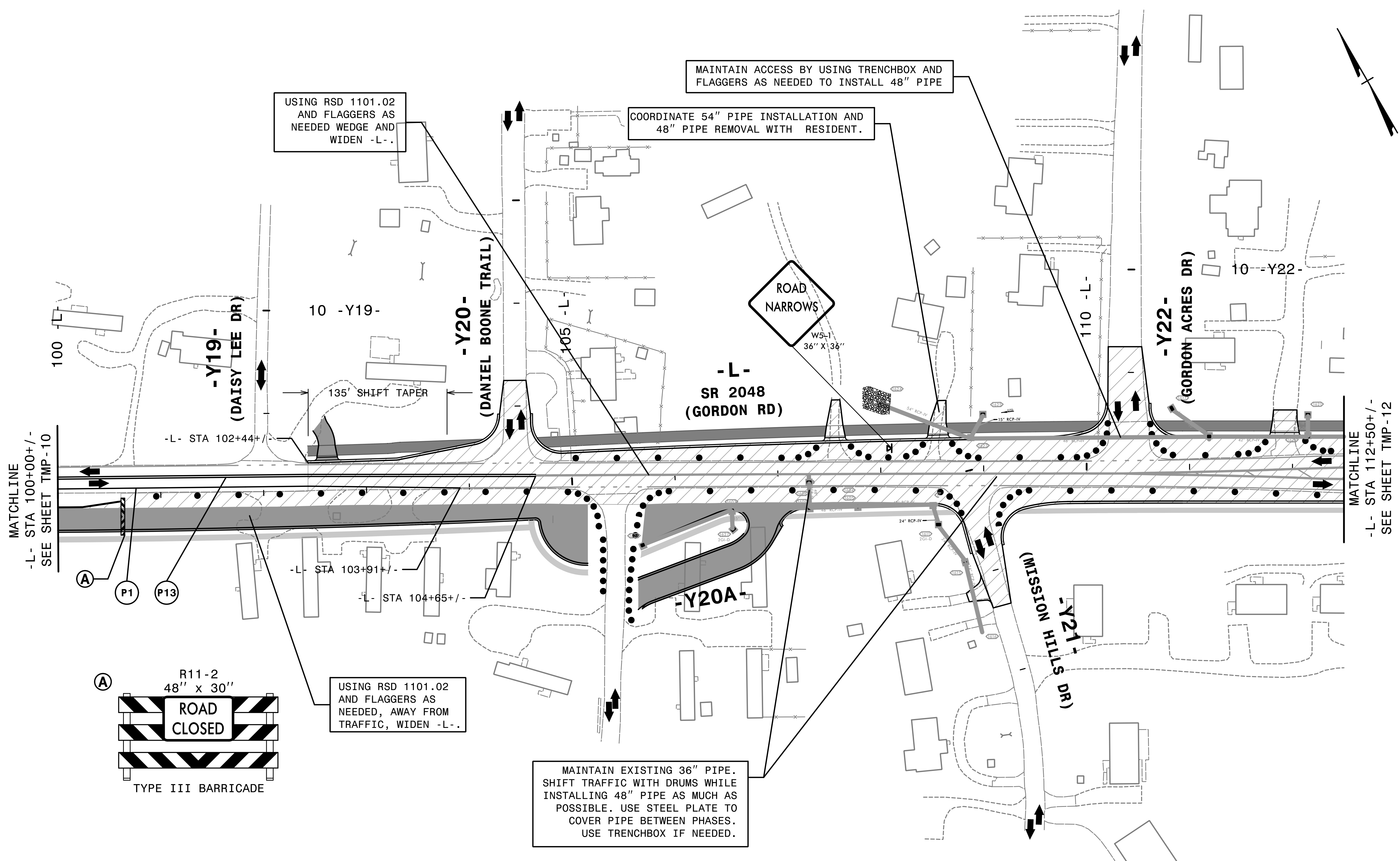
PROFESSIONAL ENGINEER
HELEN SHYU
042517
NORTH CAROLINA

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TRANSPORTATION
MANAGEMENT PLAN

PHASE I
DETAIL



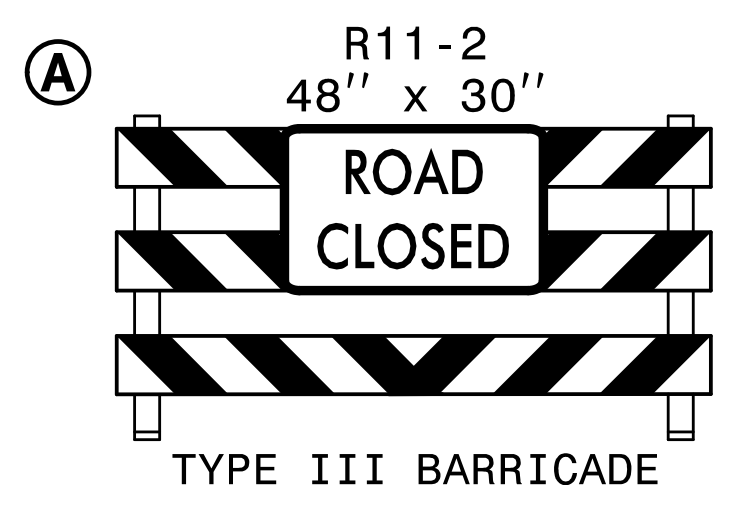
USING RSD 1101.02 AND FLAGGERS AS NEEDED WEDGE AND WIDEN -L-.

MAINTAIN ACCESS BY USING TRENCHBOX AND FLAGGERS AS NEEDED TO INSTALL 48" PIPE

COORDINATE 54" PIPE INSTALLATION AND 48" PIPE REMOVAL WITH RESIDENT.

MATCHLINE
-L- STA 100+00 +/-
SEE SHEET TMP-10

MATCHLINE
-L- STA 112+50 +/-
SEE SHEET TMP-12



USING RSD 1101.02 AND FLAGGERS AS NEEDED, AWAY FROM TRAFFIC, WIDEN -L-.

MAINTAIN EXISTING 36" PIPE. SHIFT TRAFFIC WITH DRUMS WHILE INSTALLING 48" PIPE AS MUCH AS POSSIBLE. USE STEEL PLATE TO COVER PIPE BETWEEN PHASES. USE TRENCHBOX IF NEEDED.

NOTE: DRAINAGE INFORMATION SHOWN IS FOR CONCEPT ONLY.

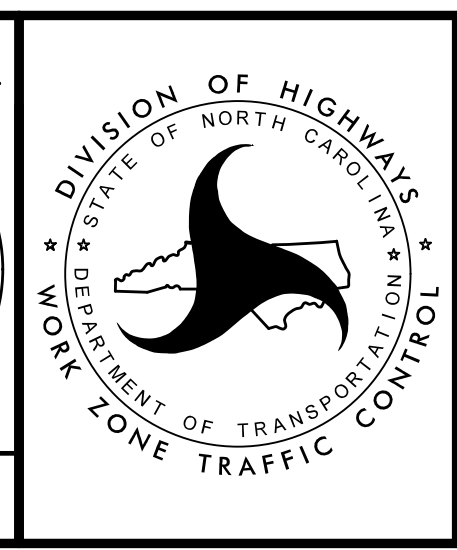
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DATE: 5/16/2024

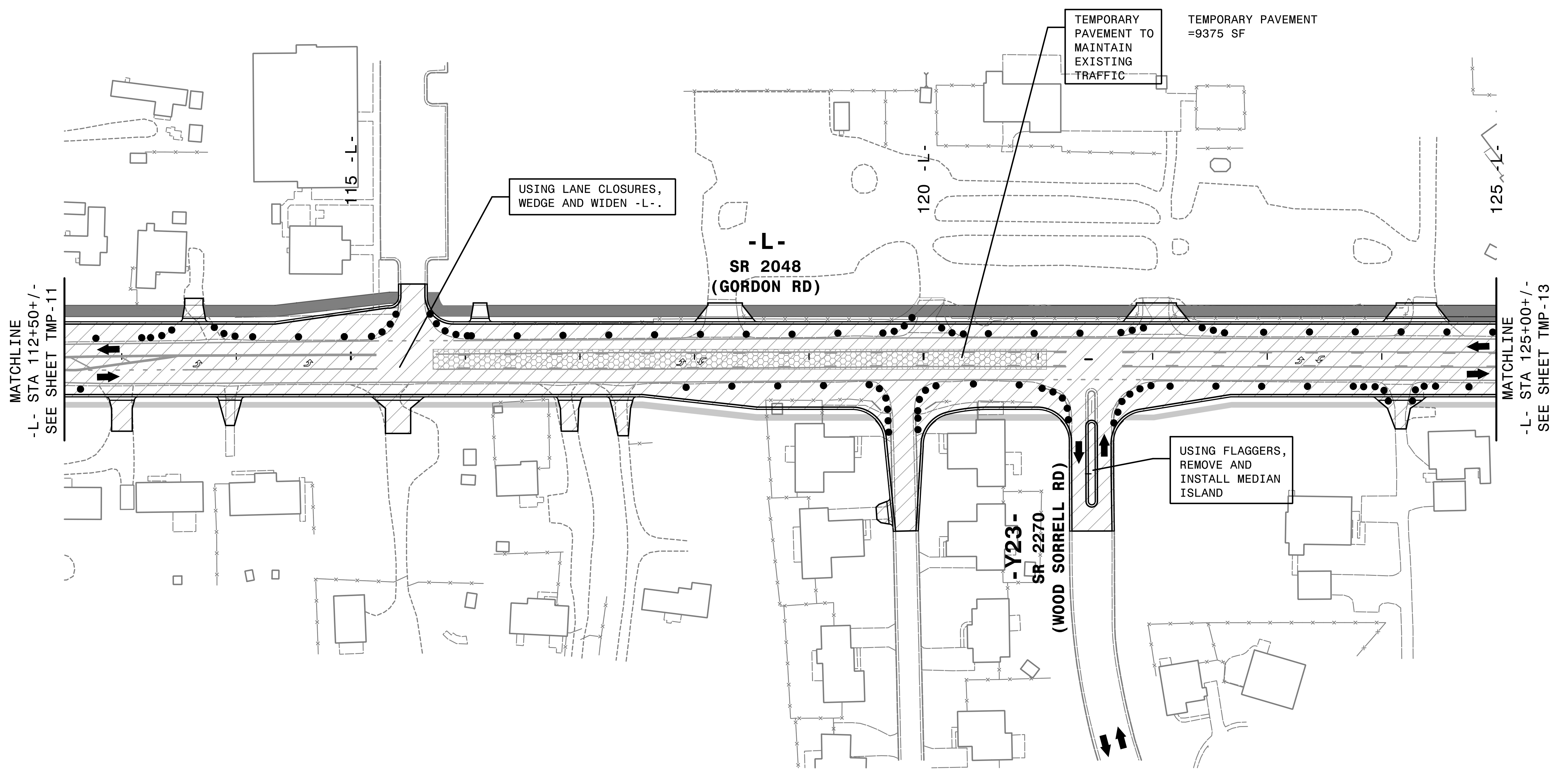
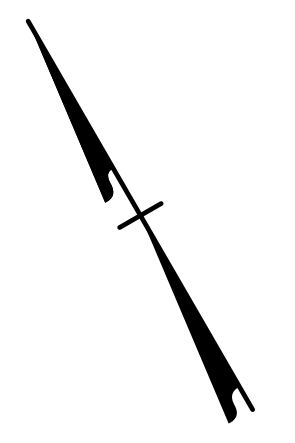
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TRANSPORTATION
MANAGEMENT PLAN

PHASE I
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 4/2/2024

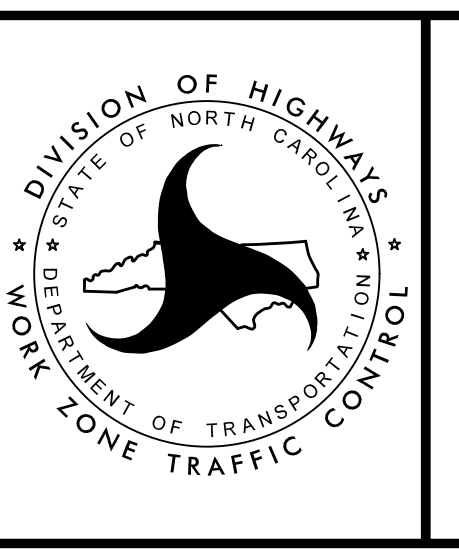


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 DATE: 5/16/2024

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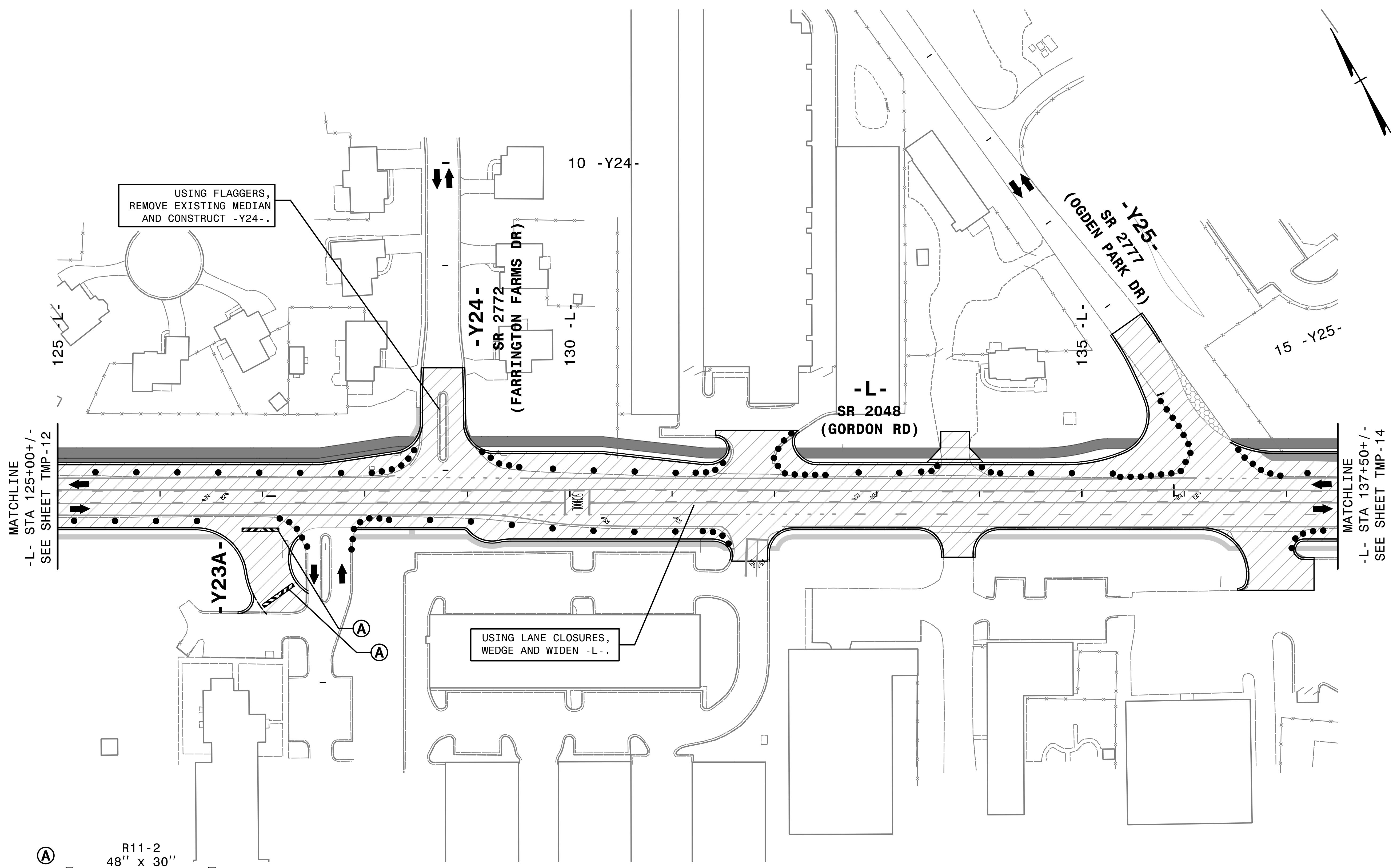
Professional Engineer Seal: HELLEN SHYU, ENGINEER, NO. 042517, NORTH CAROLINA.

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TRANSPORTATION MANAGEMENT PLAN

PHASE I DETAIL

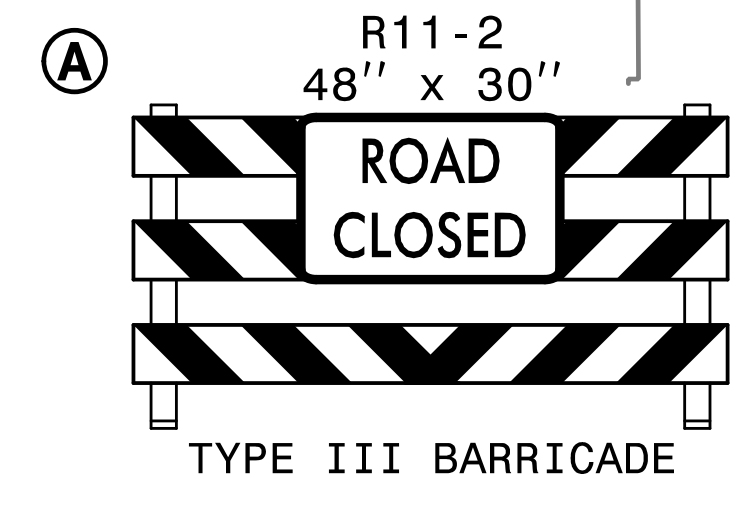


USING FLAGGERS,
REMOVE EXISTING MEDIAN
AND CONSTRUCT -Y24-.

USING LANE CLOSURES,
WEDGE AND WIDEN -L-.

MATCHLINE
-L- STA 125+00+/-
SEE SHEET TMP-12

MATCHLINE
-L- STA 137+50+/-
SEE SHEET TMP-14



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4/2/2024

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

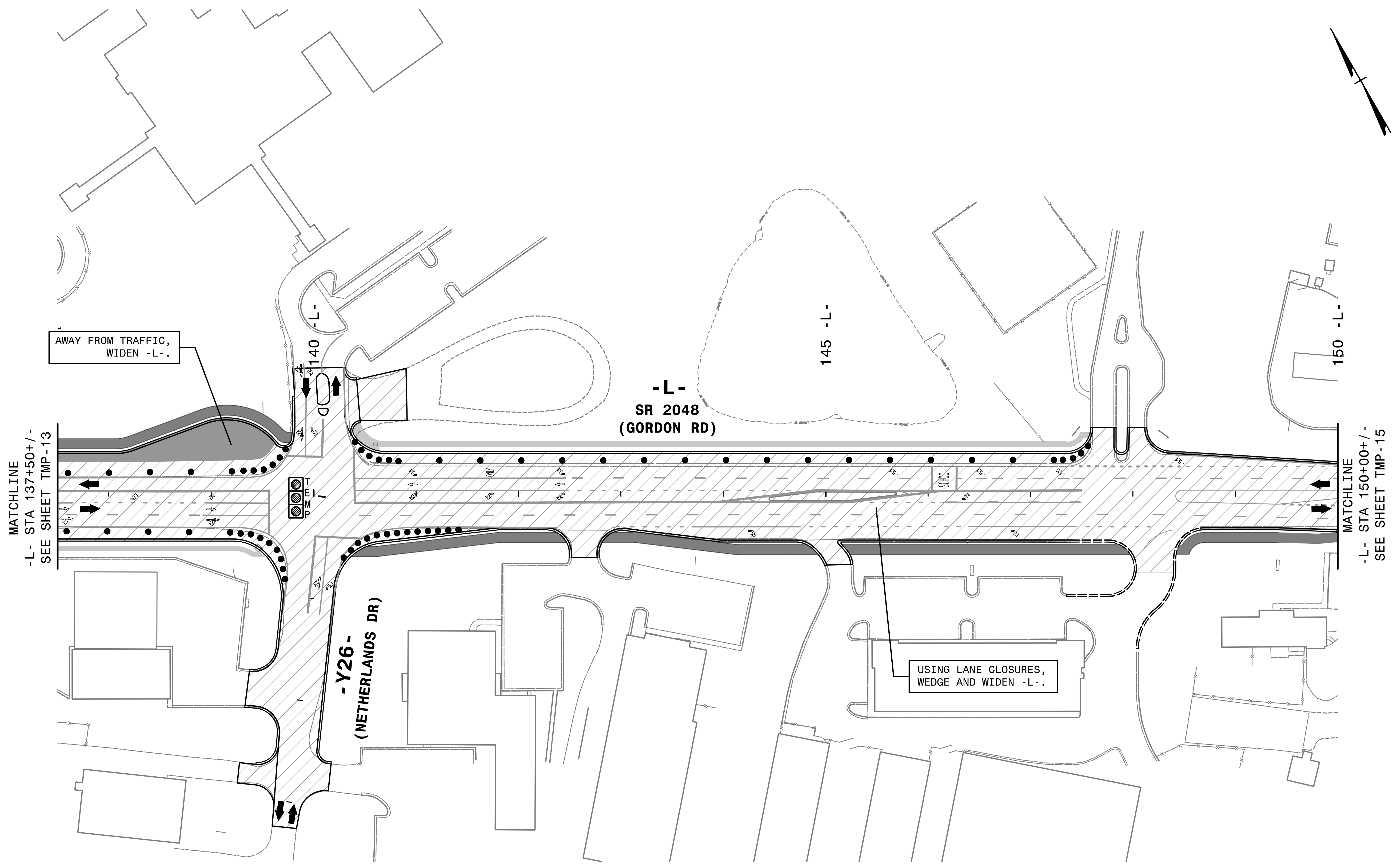
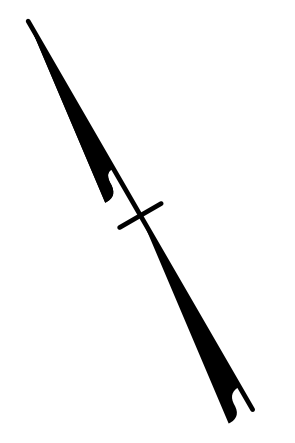
APPROVED: *Helen Shyu*
DATE: 5/16/2024

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TRANSPORTATION
MANAGEMENT PLAN

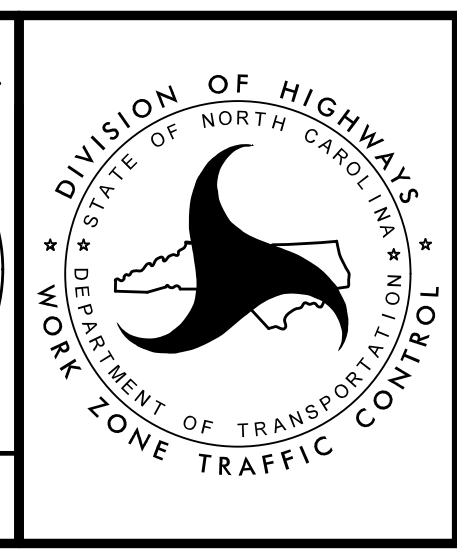
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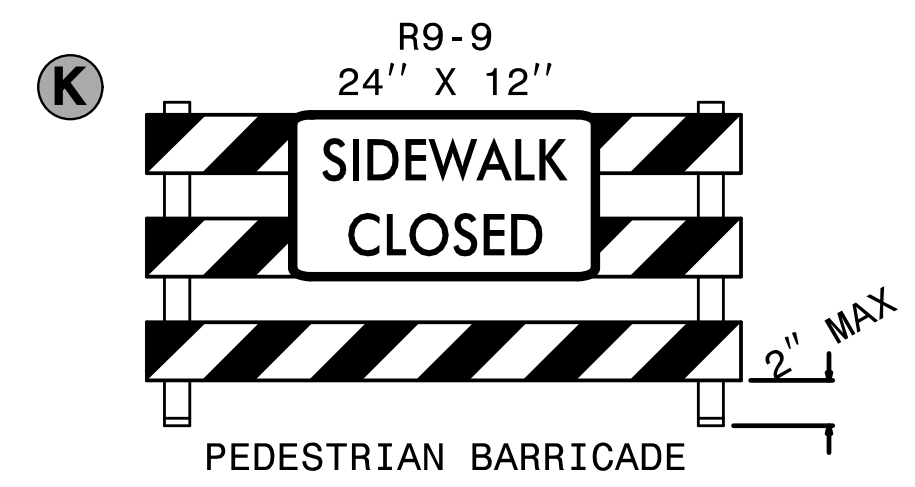
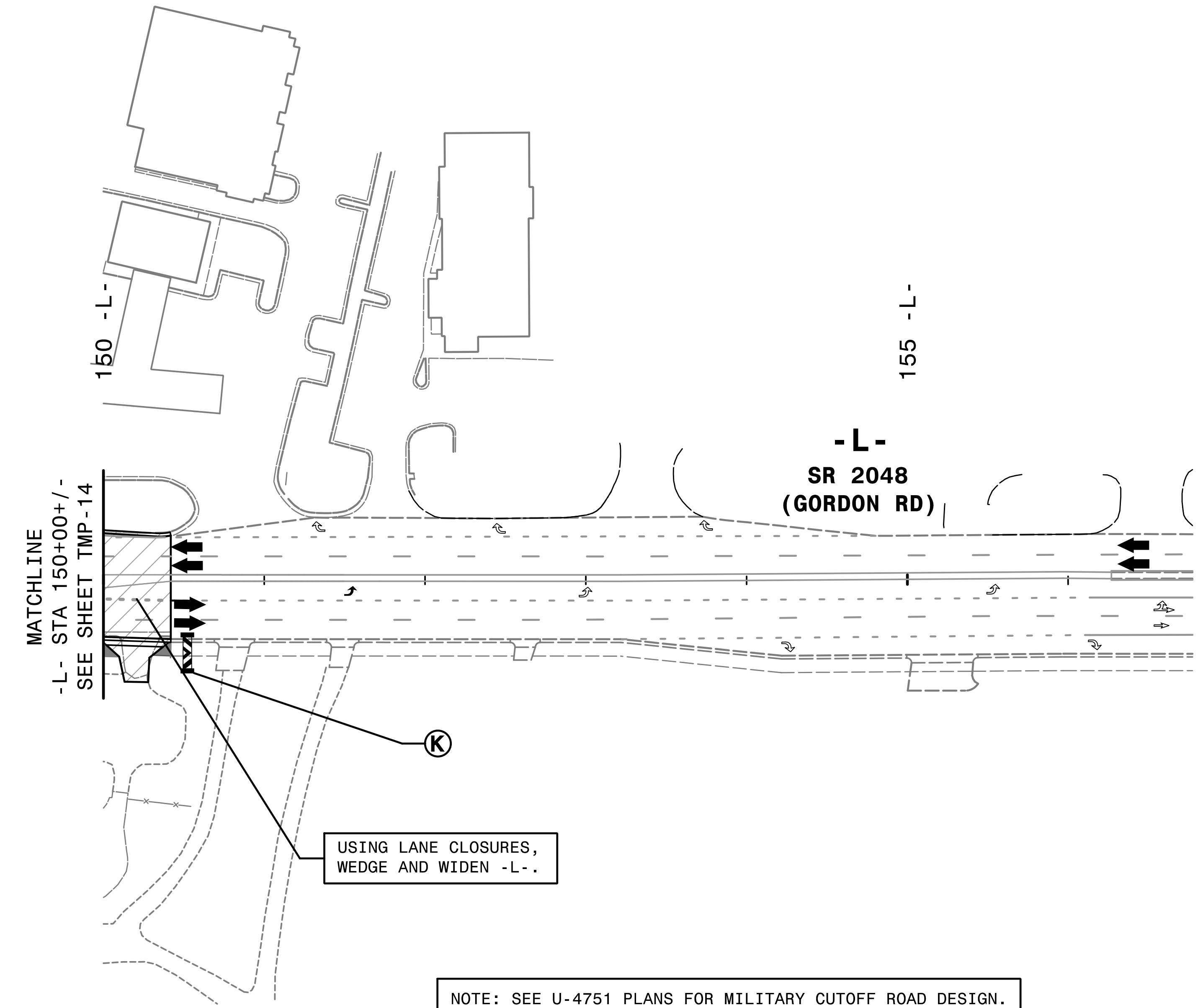
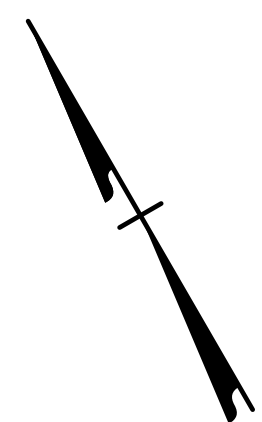
HNTB HNTB NORTH CAROLINA, P.C.
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 DATE: 5/16/2024
 SEAL
 NORTH CAROLINA PROFESSIONAL SEAL 042517
 ENGINEER HELEN SHYU



TRANSPORTATION MANAGEMENT PLAN
 PHASE I DETAIL

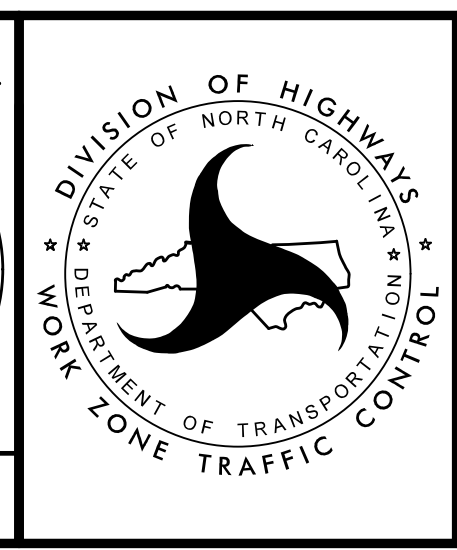
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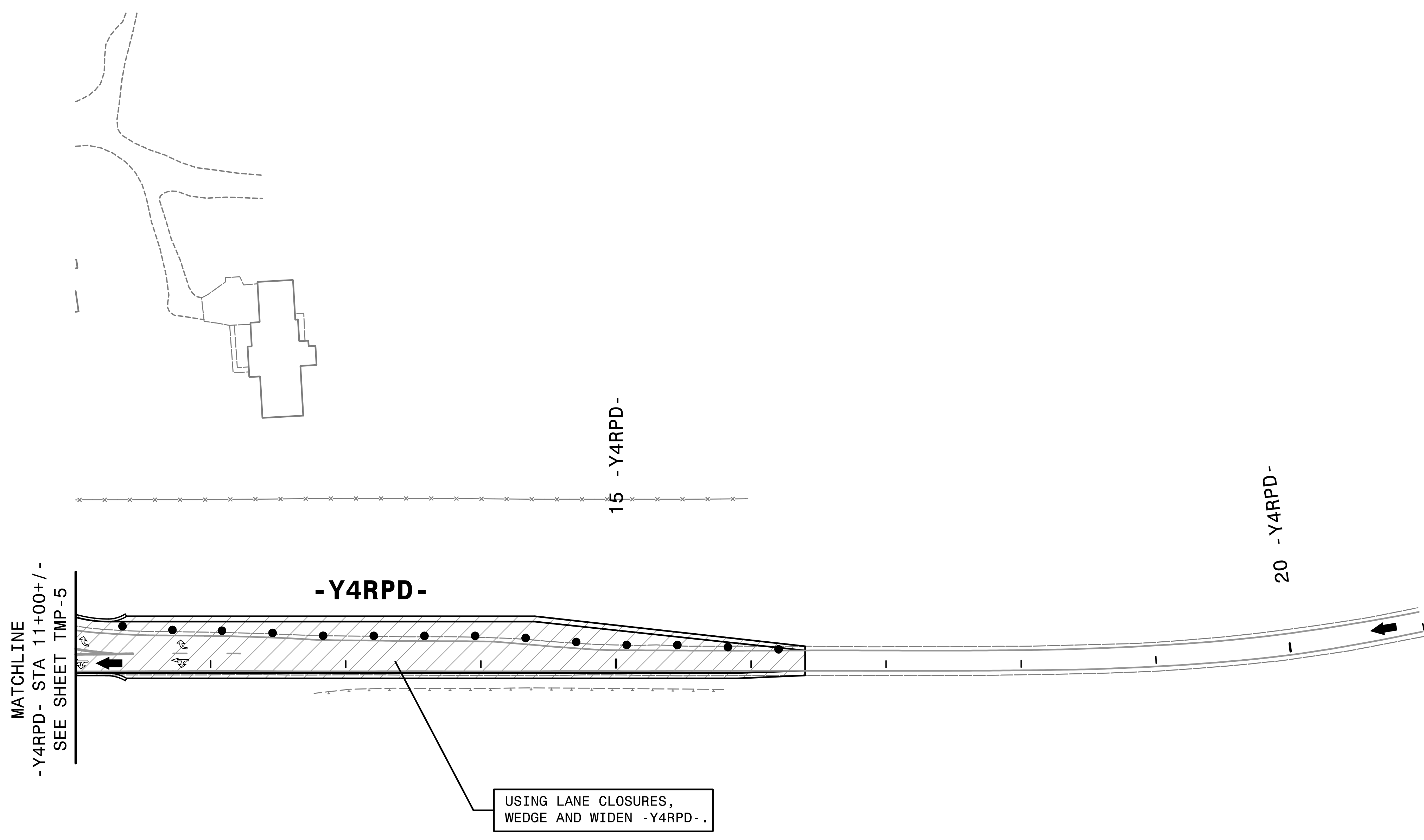
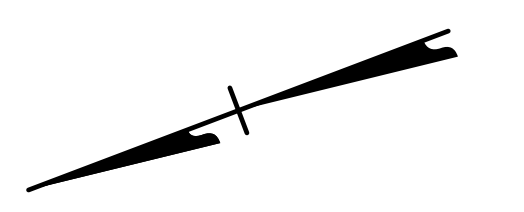
APPROVED: *Helen Shyu*
 DATE: 5/16/2024
 SEAL
 NORTH CAROLINA PROFESSIONAL ENGINEER
 SEAL 042517
 HELEN SHYU



TRANSPORTATION
 MANAGEMENT PLAN

 PHASE I
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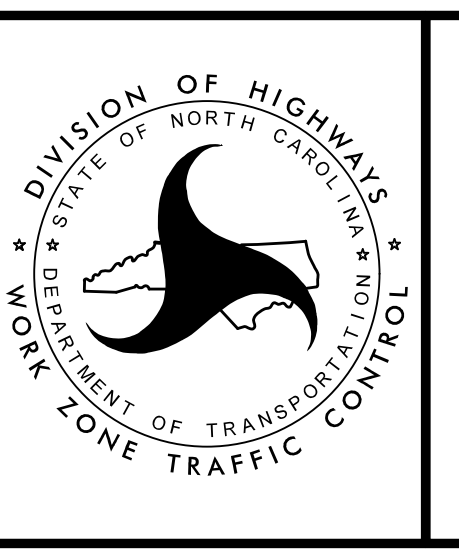
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 343 E. Six Forks Road, Suite 200
 Raleigh, North Carolina 27609
 NC License No: C-1554

APPROVED: *Helen Shyu*
 DATE: 5/16/2024

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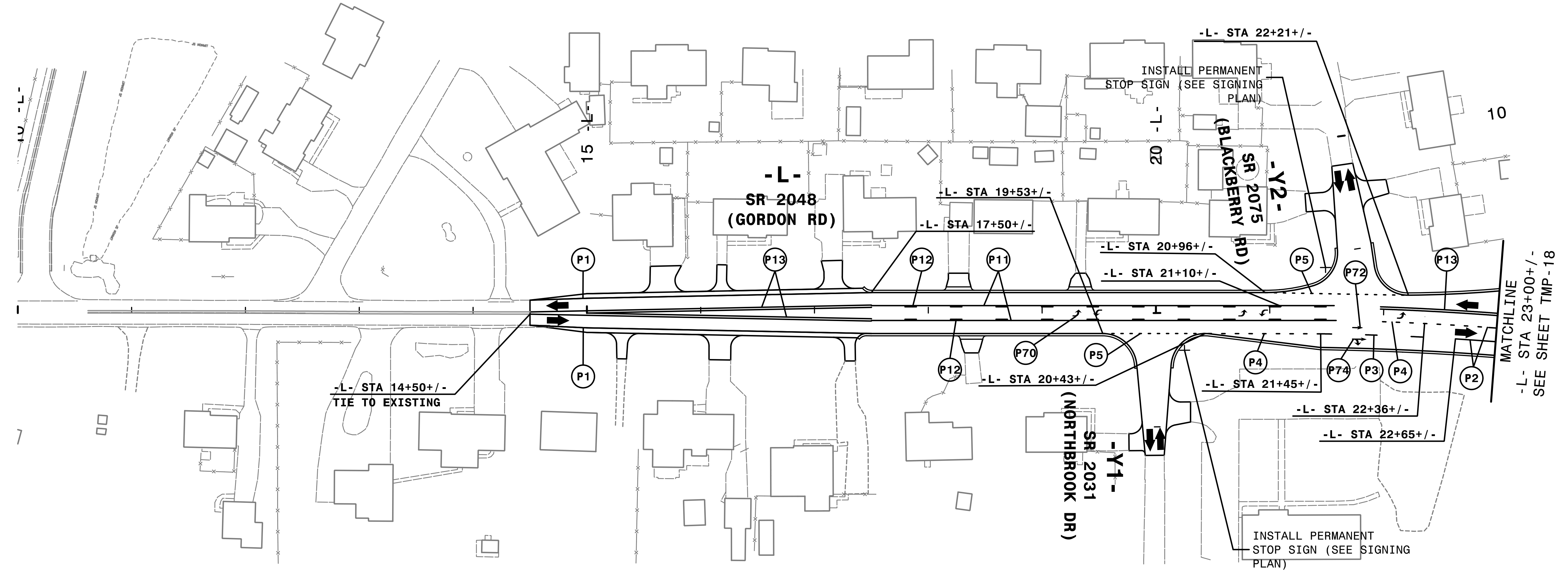
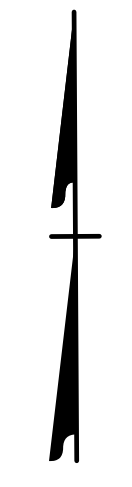
PROFESSIONAL SEAL
 NORTH CAROLINA
 ENGINEER
 HELEN SHYU
 042517

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TRANSPORTATION
 MANAGEMENT PLAN

**PHASE I
 DETAIL**



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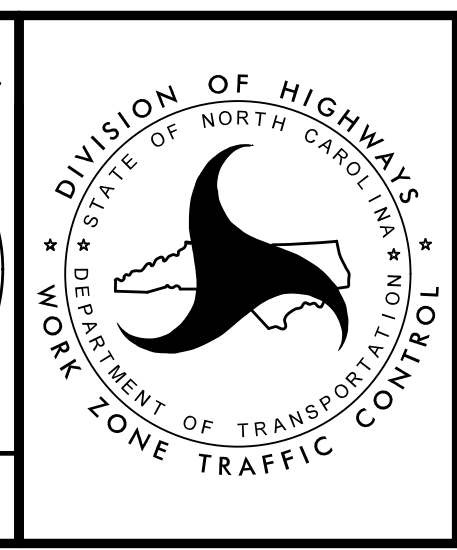
APPROVED: *Helen Shyu*
OF 15073A85E44EF

DATE: 5/16/2024

SEAL

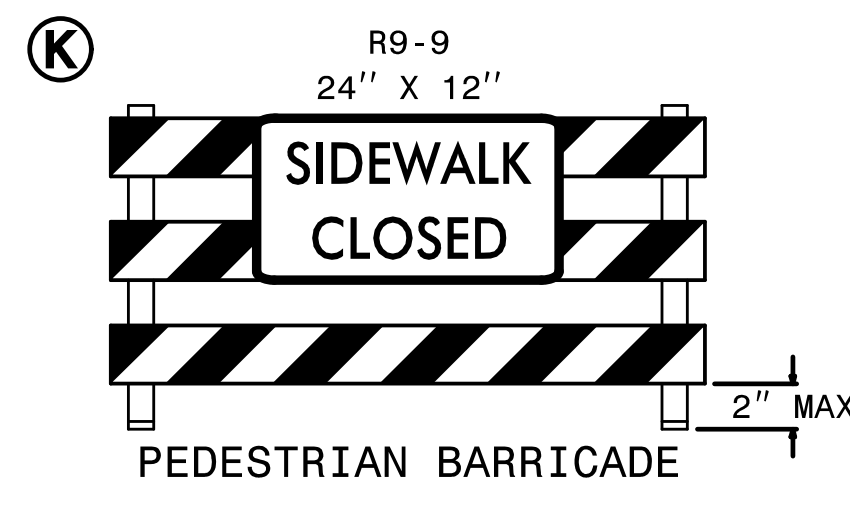
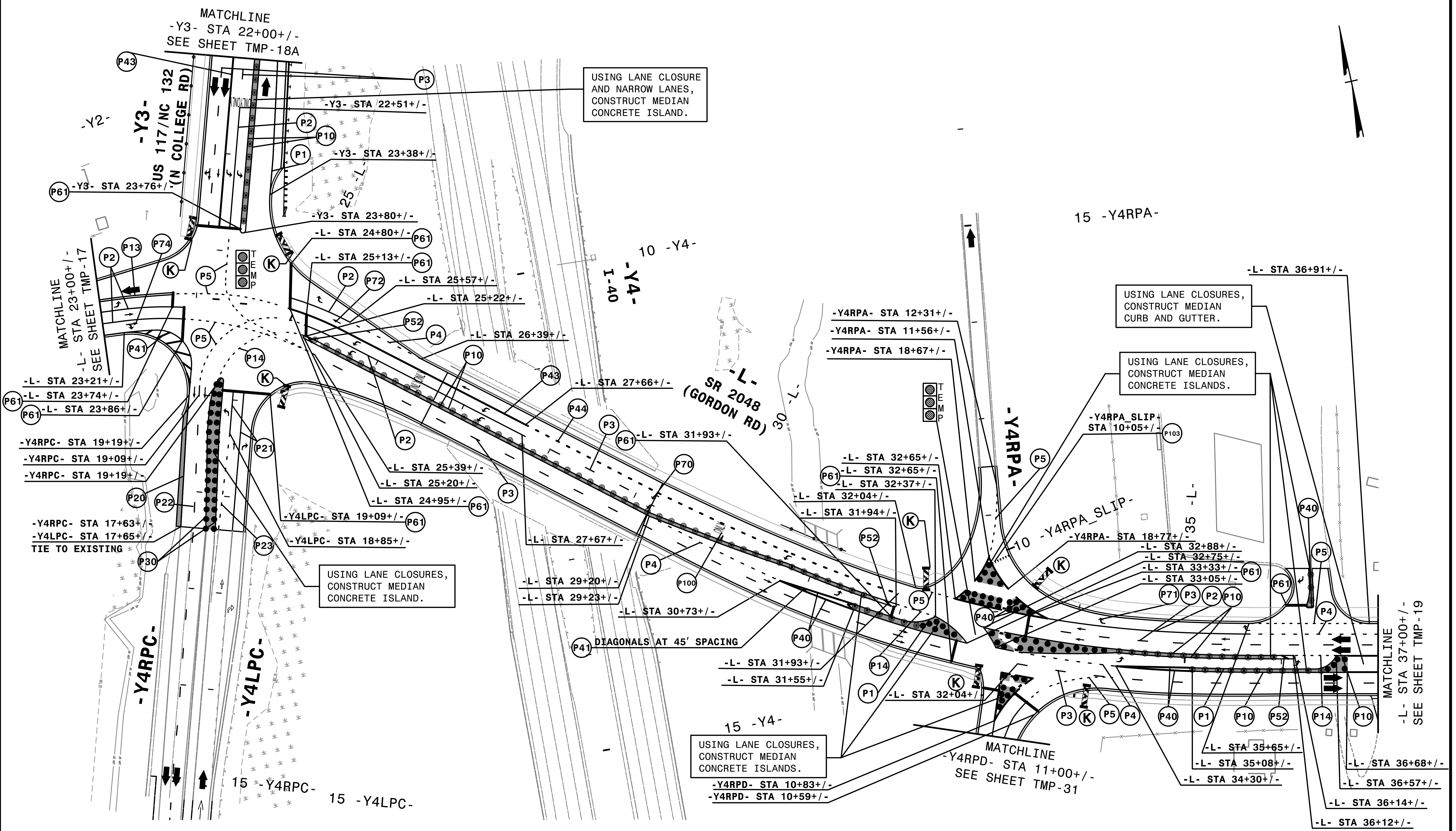
SEAL
 NORTH CAROLINA
 PROFESSIONAL
 ENGINEER
 HELEN SHYU
 042517

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TRANSPORTATION
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PHASE II
 DETAIL



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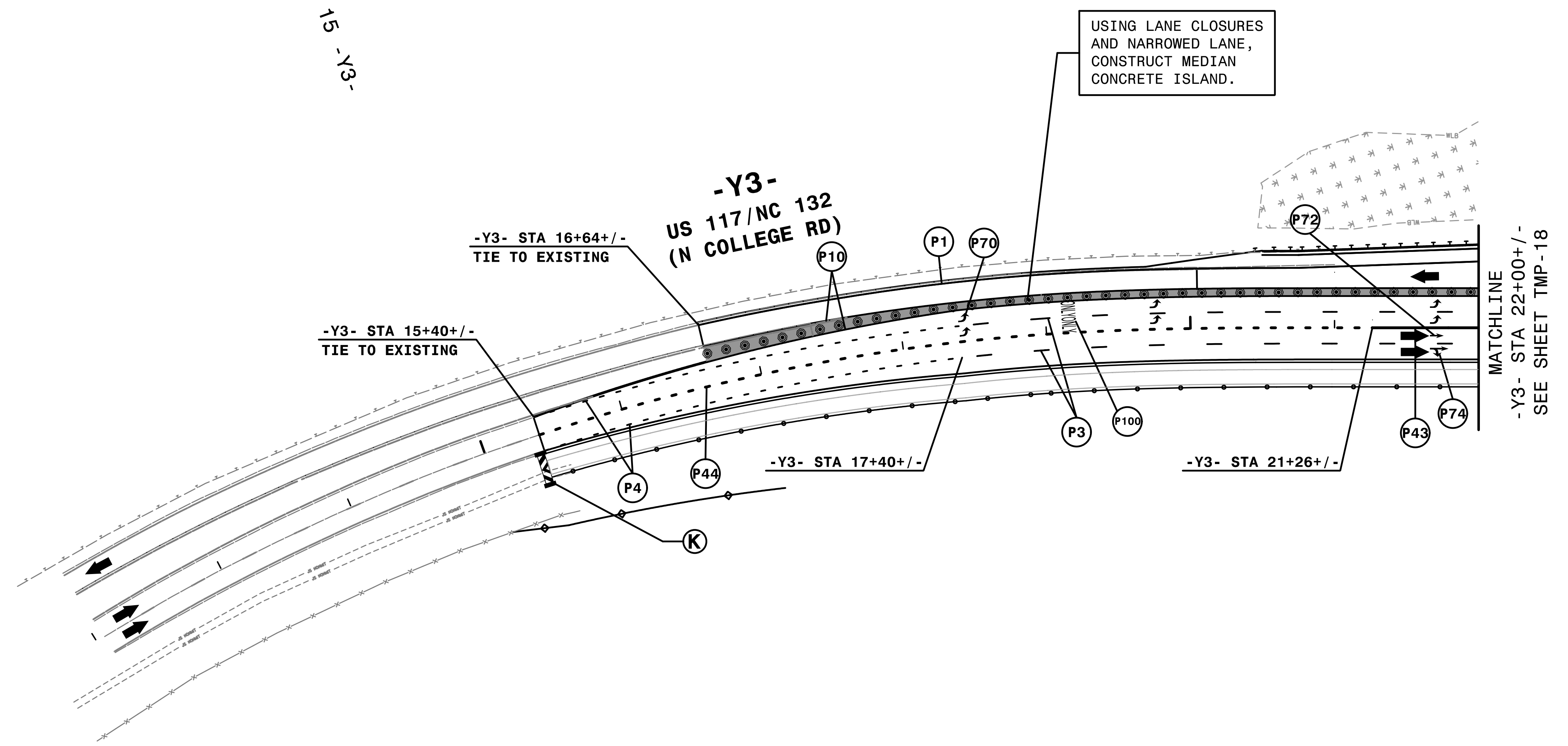
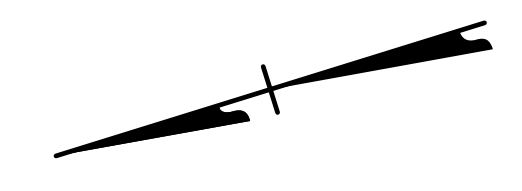
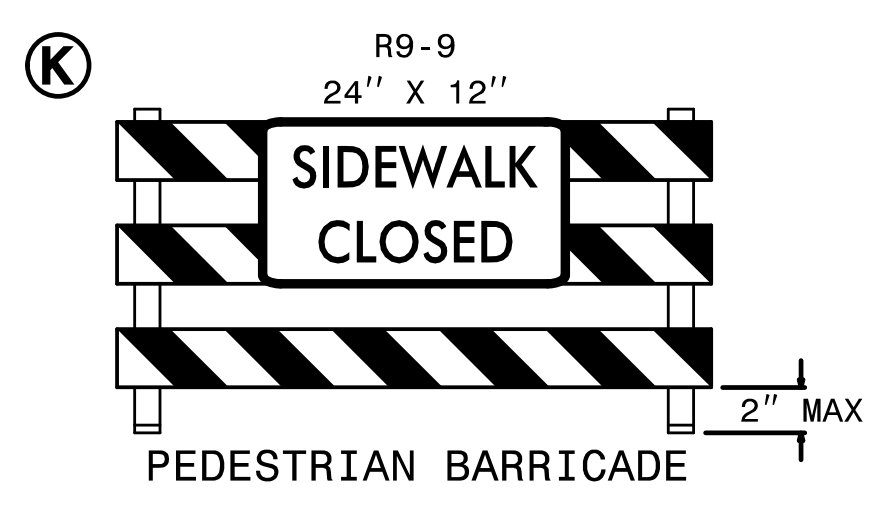
APPROVED: *Helen Shyu*
 DATE: 5/16/2024
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 NORTH CAROLINA PROFESSIONAL ENGINEER
 SEAL 042517
 HELEN SHYU



TRANSPORTATION MANAGEMENT PLAN
 PHASE II DETAIL

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 4/2/2024



USING LANE CLOSURES AND NARROWED LANE, CONSTRUCT MEDIAN CONCRETE ISLAND.

MATCHLINE
-Y3- STA 22+00 +/-
SEE SHEET TMP-18

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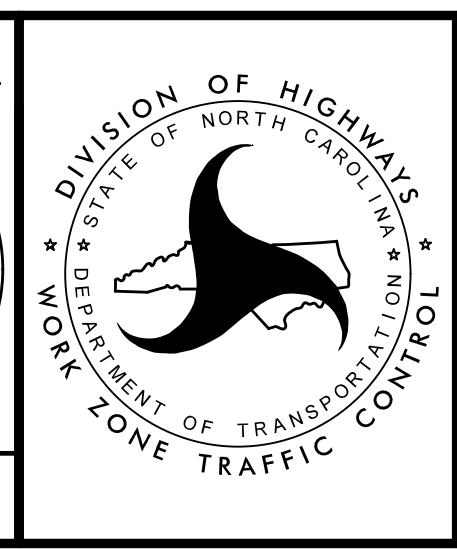
HNTB HNTB NORTH CAROLINA, P.C.
 343 E. Six Forks Road, Suite 200
 Raleigh, North Carolina 27609
 NC License No: C-1554

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DESIGNED BY: Helen Shyu
OF 15073AB5E44EF

DATE: 5/16/2024

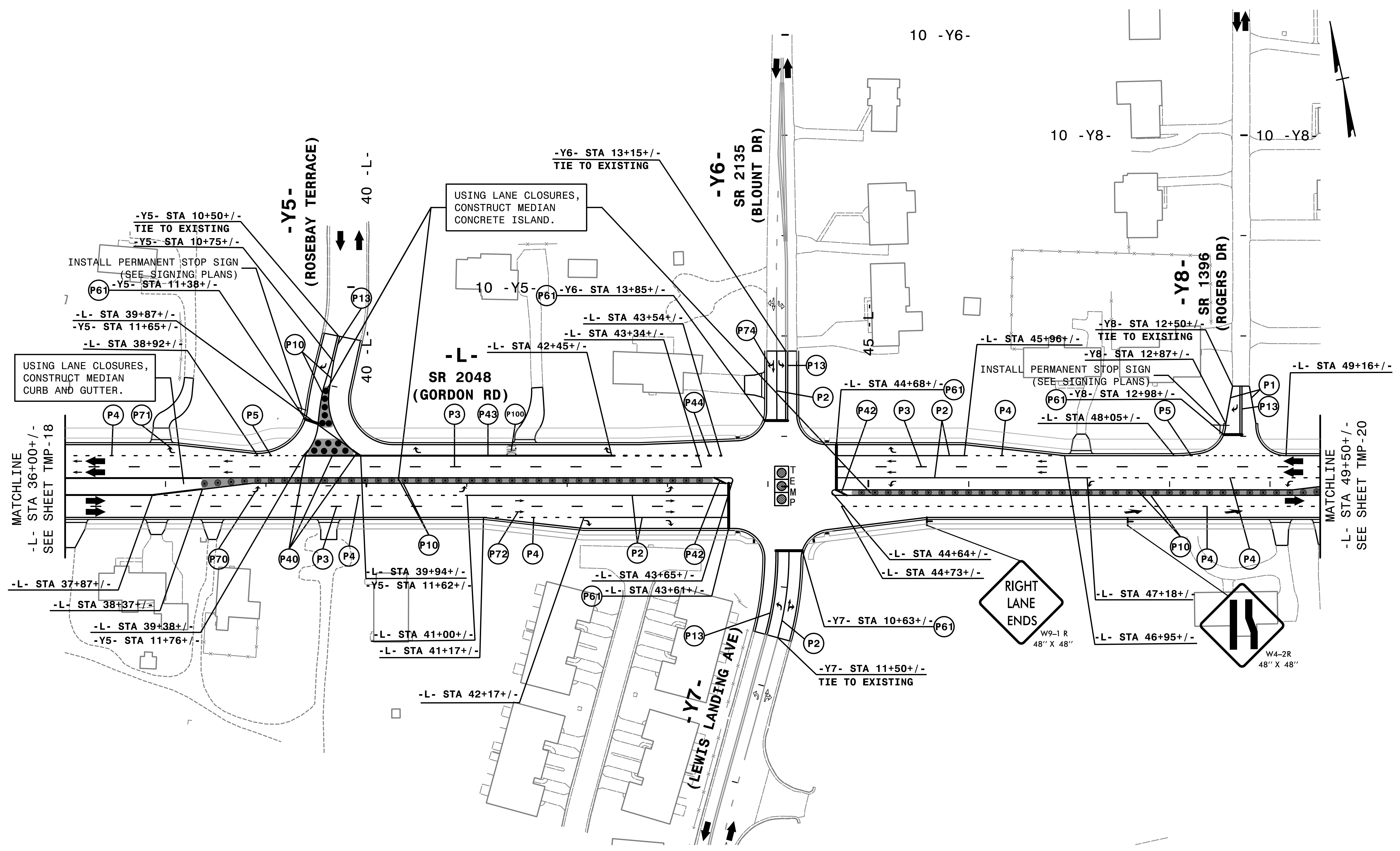
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TRANSPORTATION
MANAGEMENT PLAN

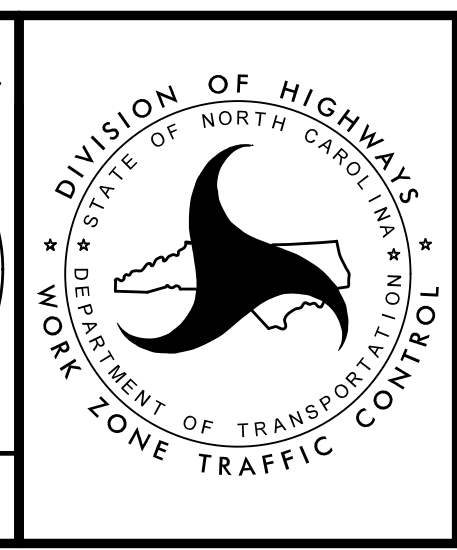
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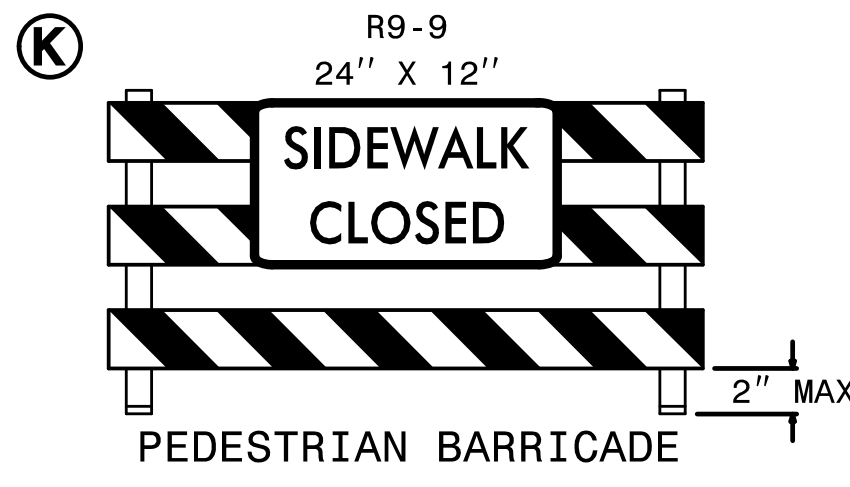
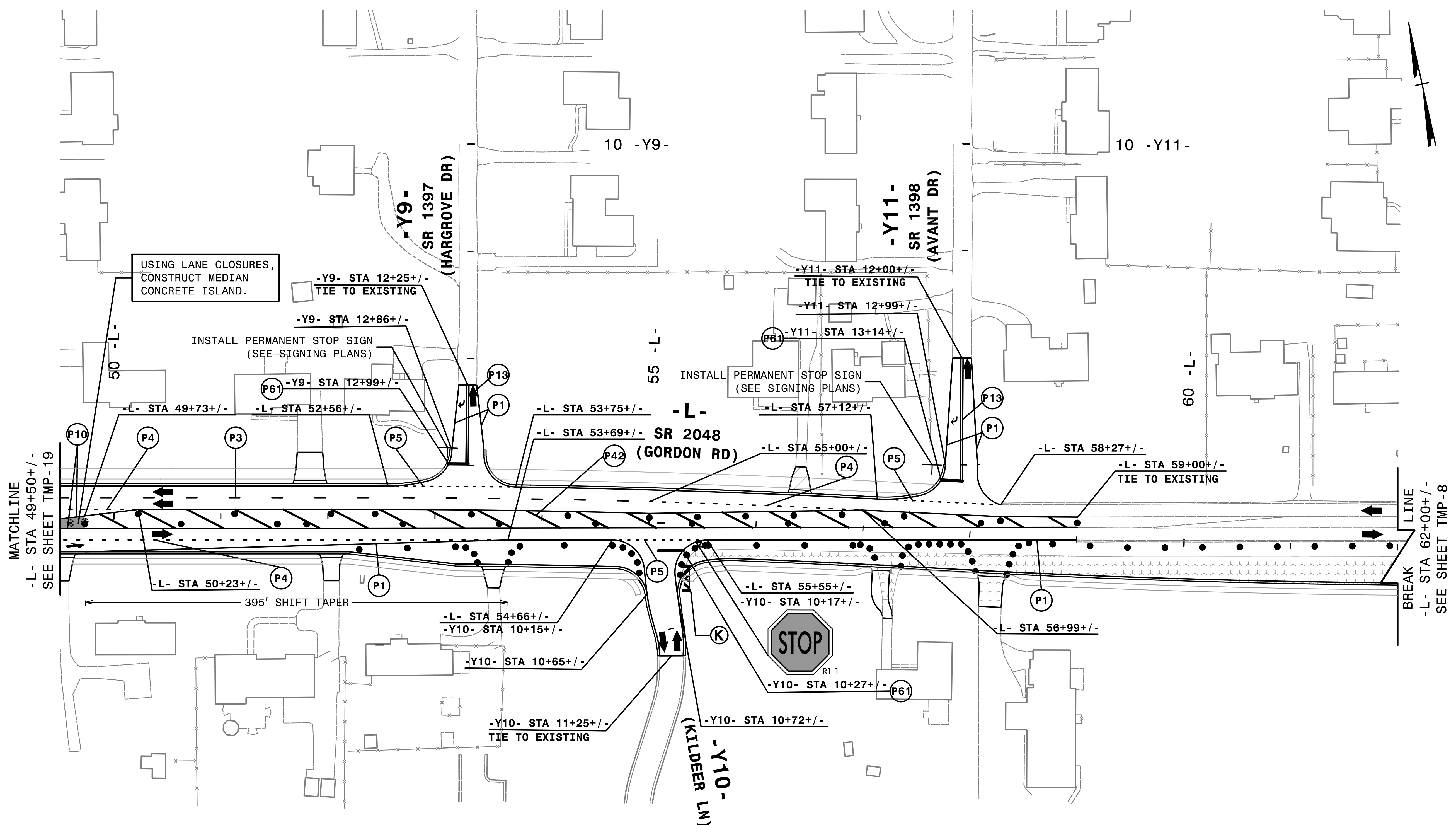
HNTB HNTB NORTH CAROLINA, P.C.
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APPROVED: *Helen Shyu*
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 SEAL 042517
 HELEN SHYU



TRANSPORTATION MANAGEMENT PLAN
 PHASE II DETAIL

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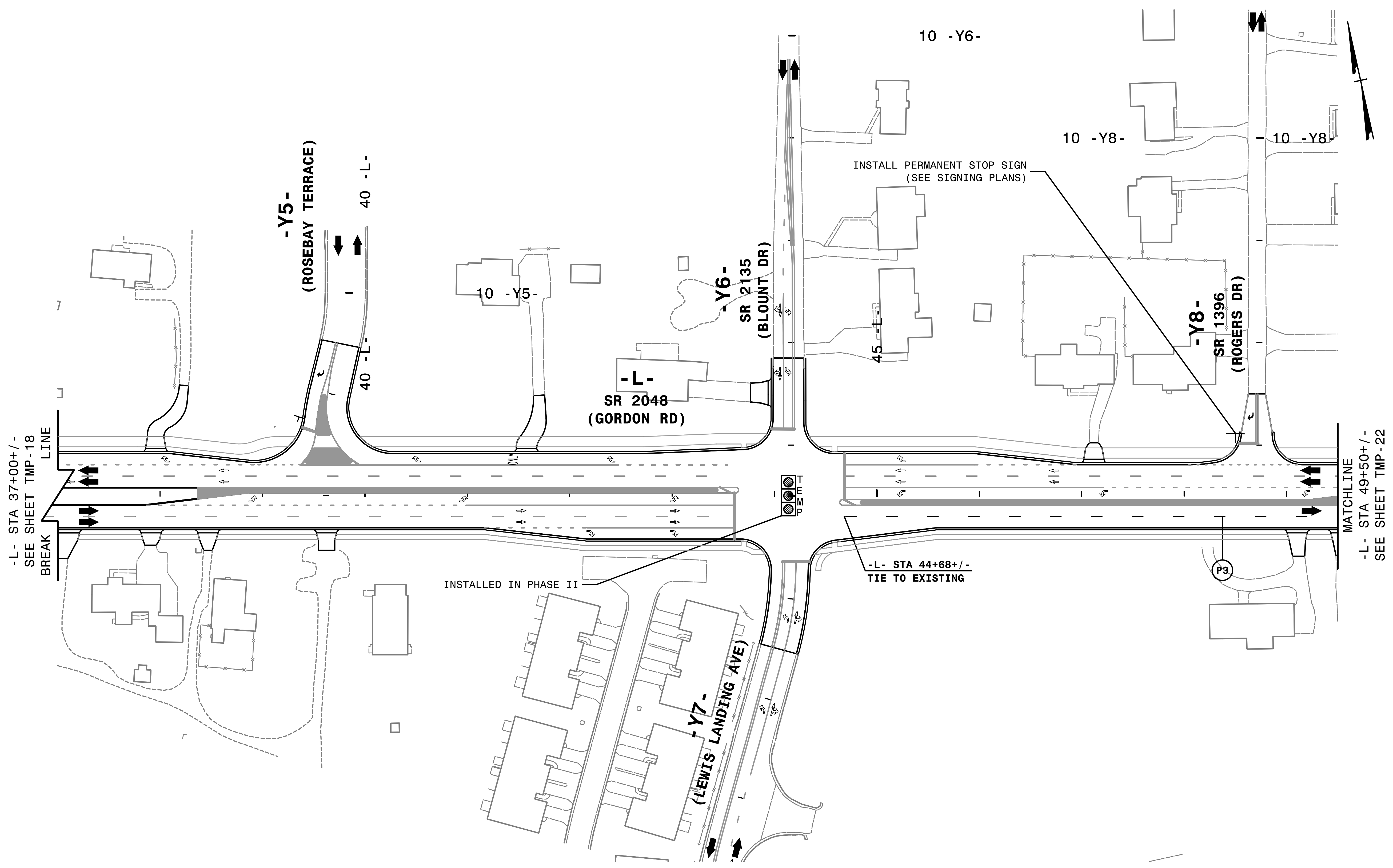


APPROVED: *Helen Shyu*
DATE: 5/16/2024
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NORTH CAROLINA PROFESSIONAL SEAL 042517 ENGINEER HELEN SHYU



TRANSPORTATION MANAGEMENT PLAN
PHASE II DETAIL

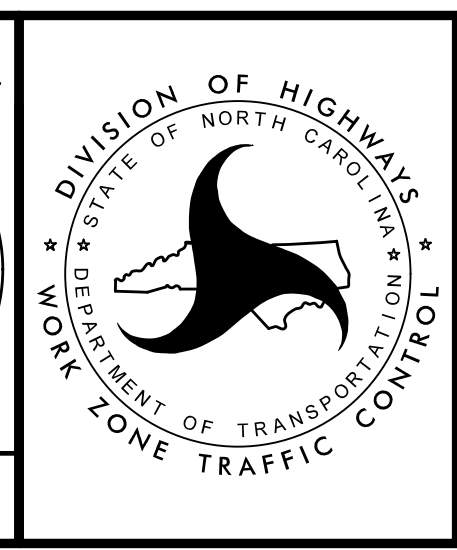
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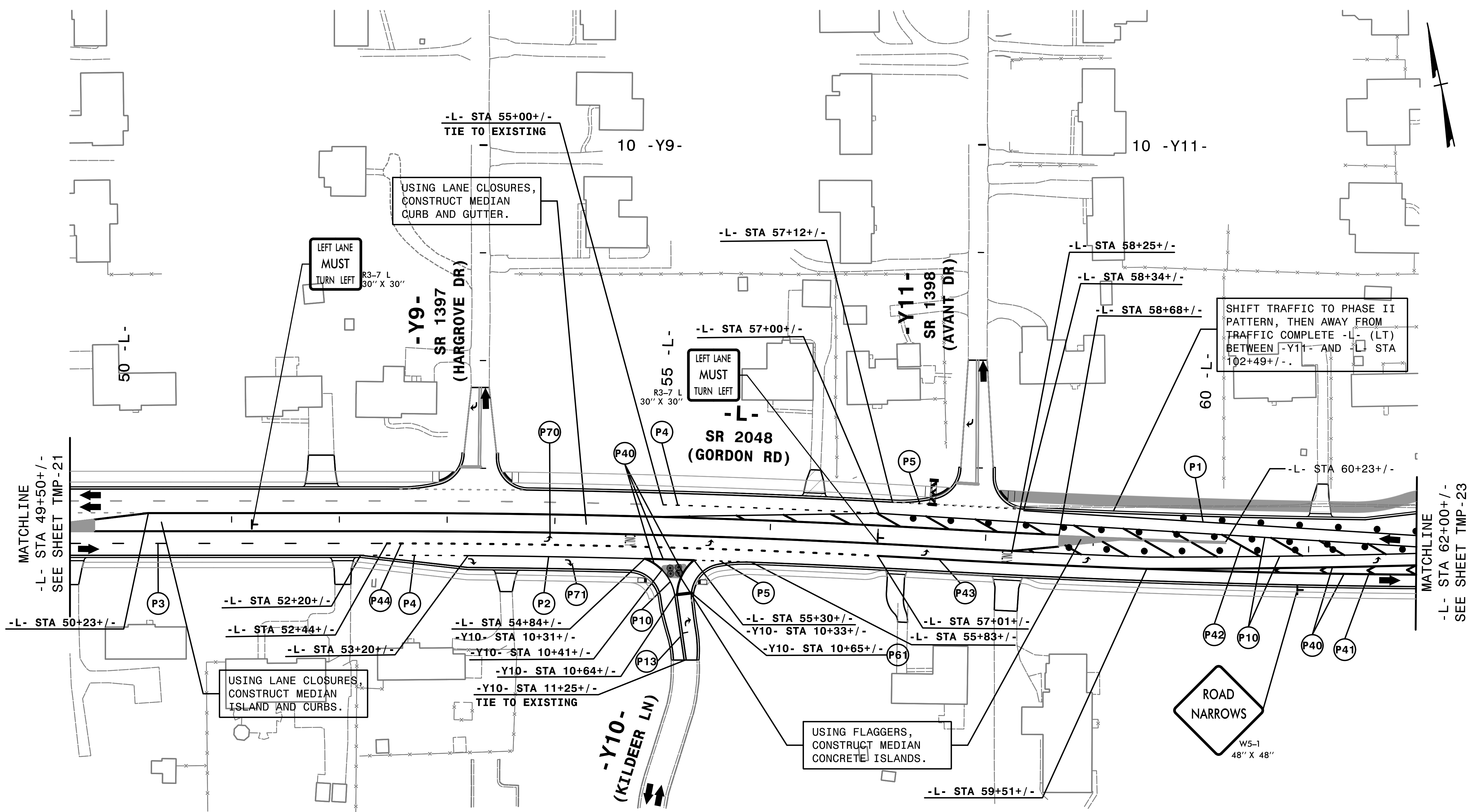
HNTB HNTB NORTH CAROLINA, P.C.
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APPROVED: *Helen Shyu*
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TRANSPORTATION MANAGEMENT PLAN
 PHASE IIA
 DETAIL

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MATCHLINE
-L- STA 49+50+/-
SEE SHEET TMP-21

MATCHLINE
-L- STA 62+00+/-
SEE SHEET TMP-23

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

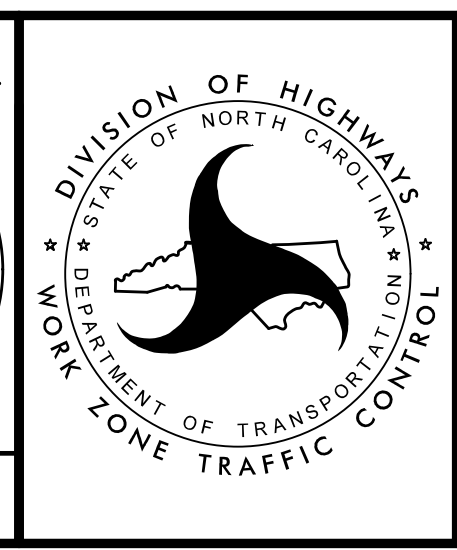
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DATE: 5/16/2024

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DESIGNED BY:
Helen Shyu
OF 15073AR6E44EF

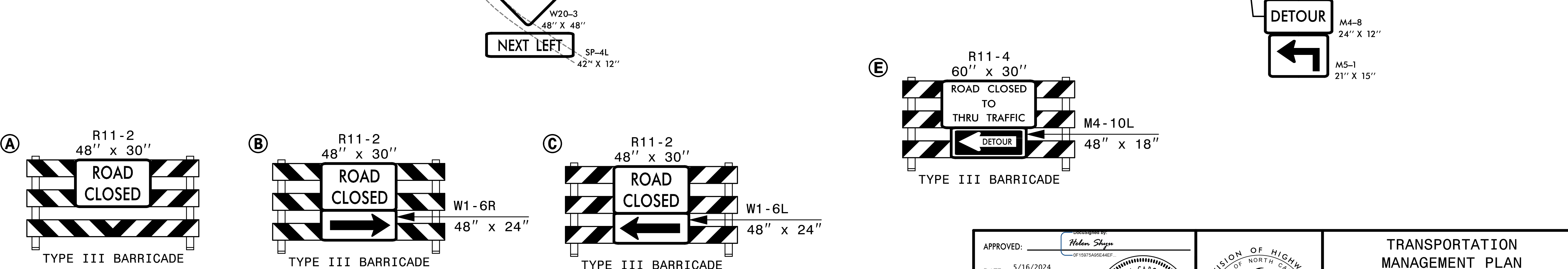
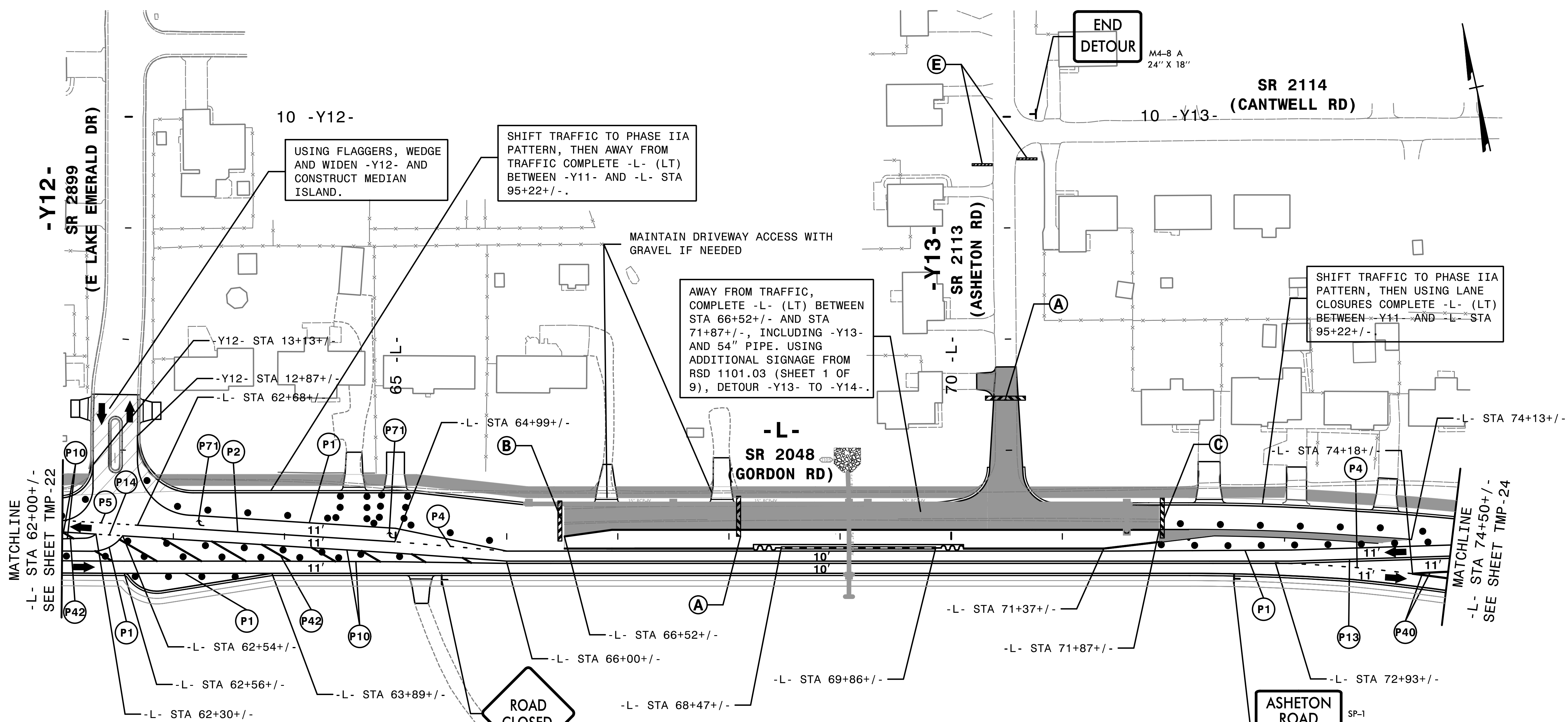
PROFESSIONAL SEAL
042517
ENGINEER
HELEN SHYU

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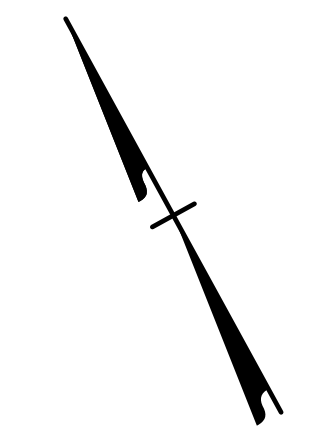
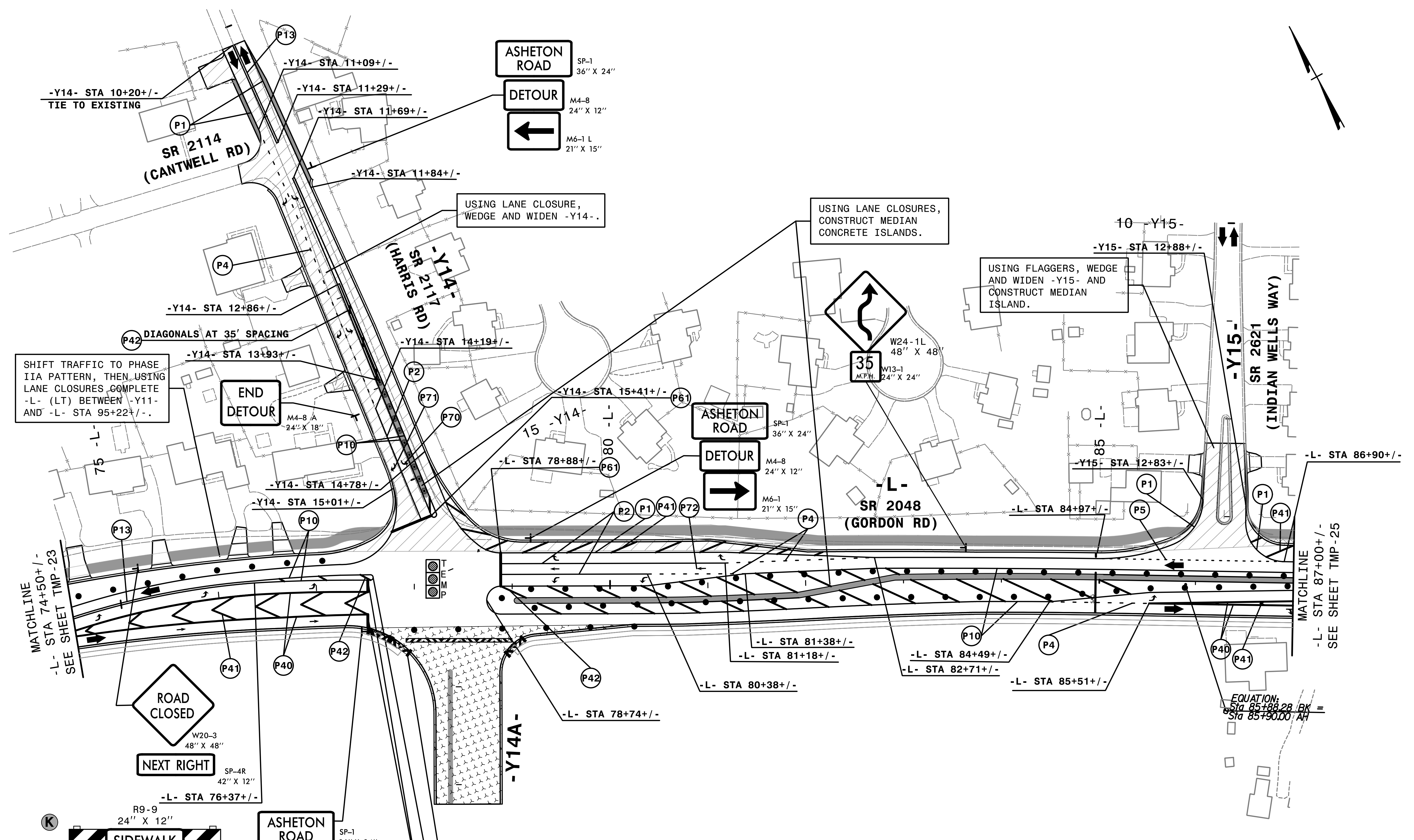
APPROVED: *Helen Shyu*
 DATE: 5/16/2024
 SEAL

SEAL
 NORTH CAROLINA PROFESSIONAL ENGINEER
 SEAL 042517
 HELEN SHYU

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

TRANSPORTATION MANAGEMENT PLAN
 PHASE IIA DETAIL



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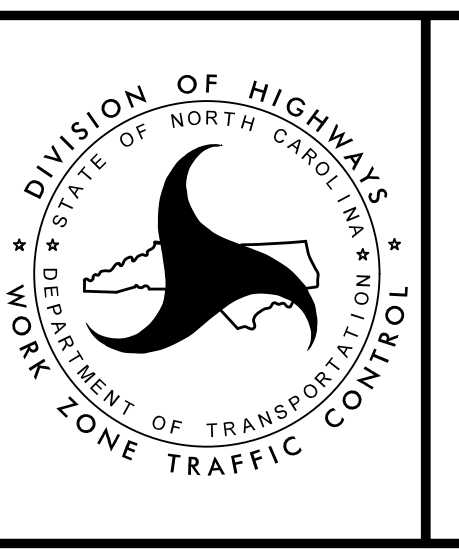


APPROVED: *Helen Shyu*
 DATE: 5/16/2024

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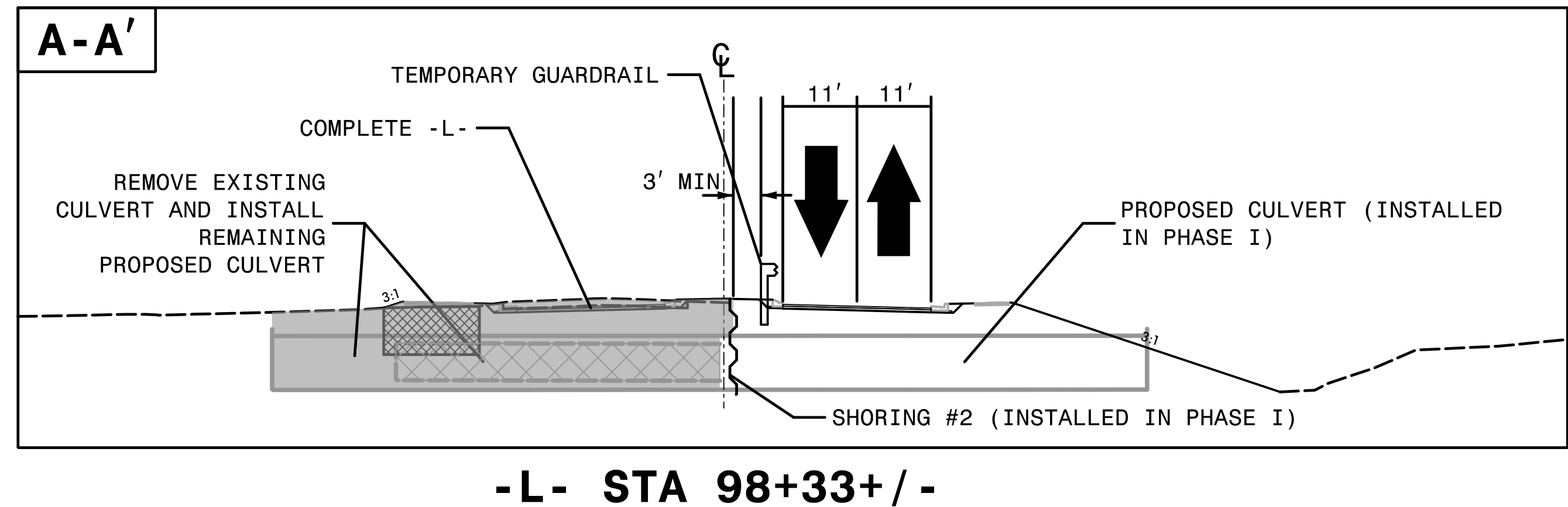
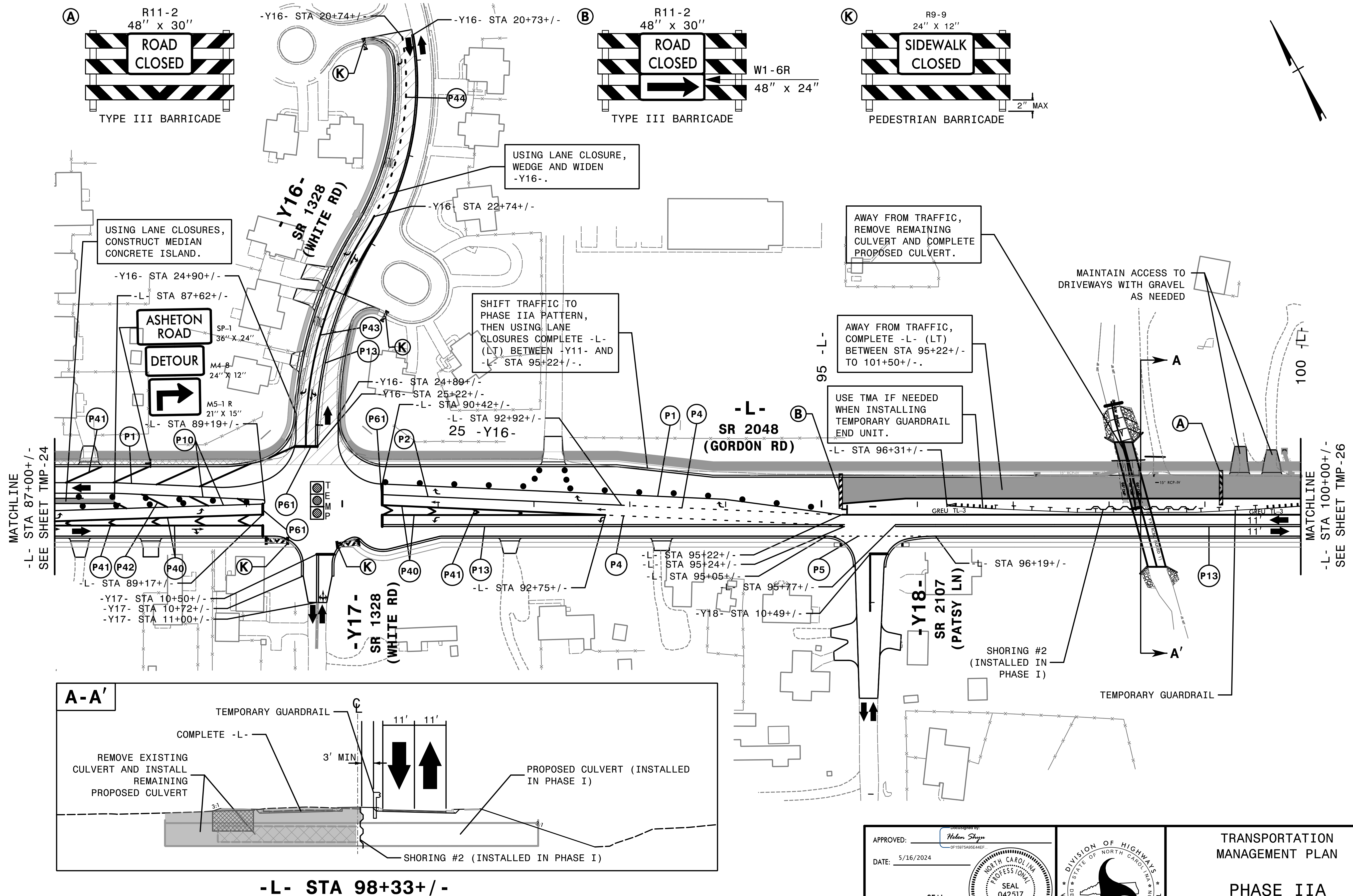
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TRANSPORTATION
 MANAGEMENT PLAN

PHASE IIA
 DETAIL



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4/2/2024

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: 5/16/2024

SEAL

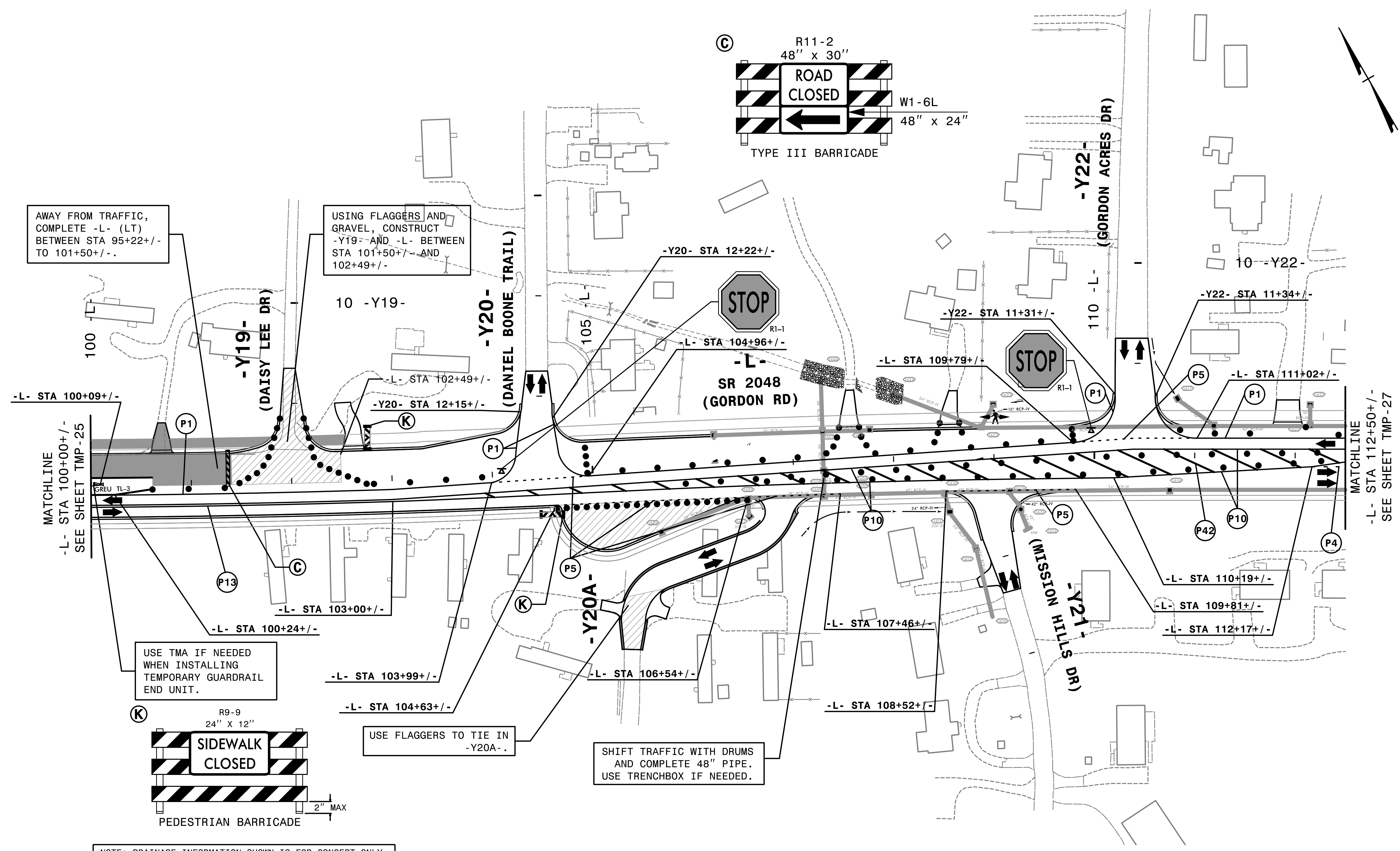
PROFESSIONAL SEAL
NORTH CAROLINA
042517
ENGINEER
HELEN SHYU

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

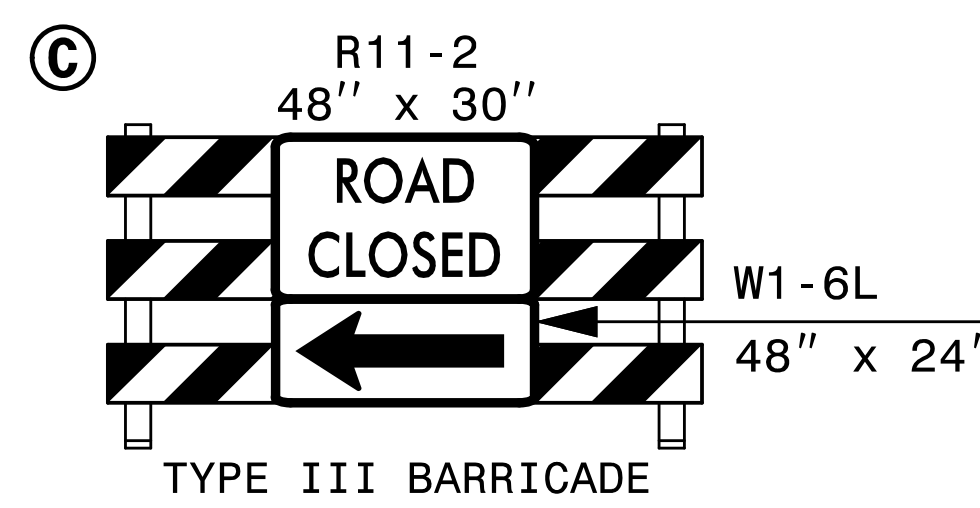
TRANSPORTATION
MANAGEMENT PLAN

PHASE IIA
DETAIL

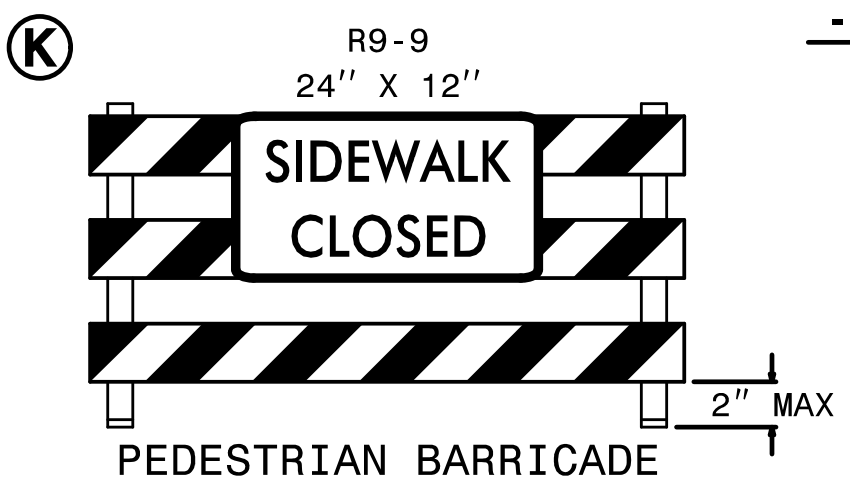


AWAY FROM TRAFFIC, COMPLETE -L- (LT) BETWEEN STA 95+22+/- TO 101+50+/-.

USING FLAGGERS AND GRAVEL, CONSTRUCT -Y19- AND -L- BETWEEN STA 101+50+/- AND 102+49+/-.



USE TMA IF NEEDED WHEN INSTALLING TEMPORARY GUARDRAIL END UNIT.



USE FLAGGERS TO TIE IN -Y20A-.

SHIFT TRAFFIC WITH DRUMS AND COMPLETE 48" PIPE. USE TRENCHBOX IF NEEDED.

NOTE: DRAINAGE INFORMATION SHOWN IS FOR CONCEPT ONLY.

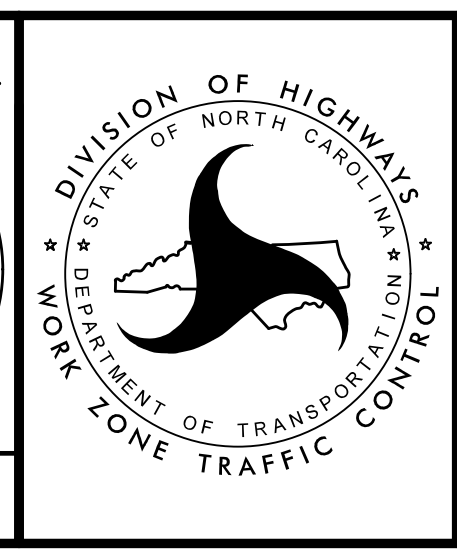
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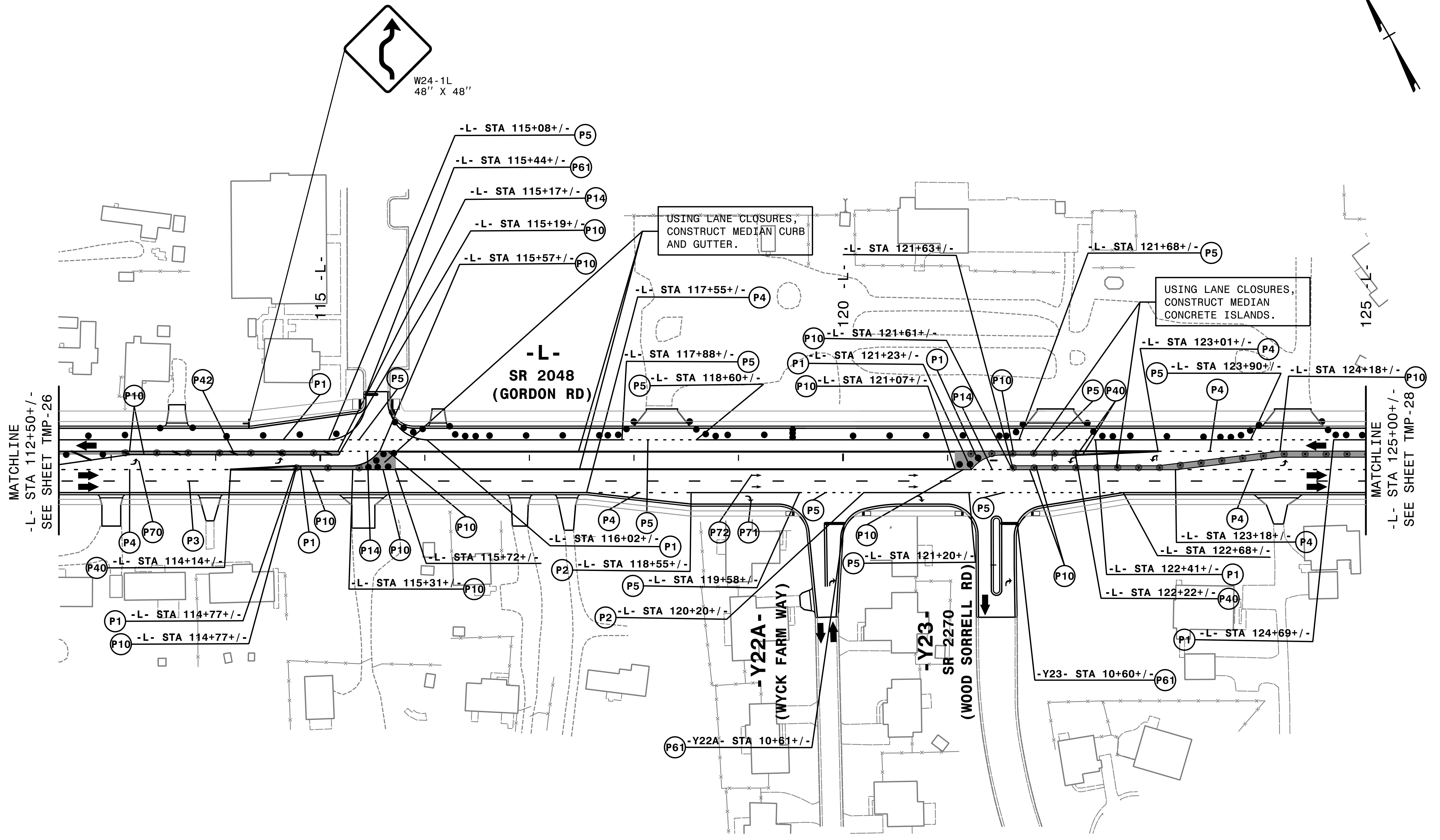
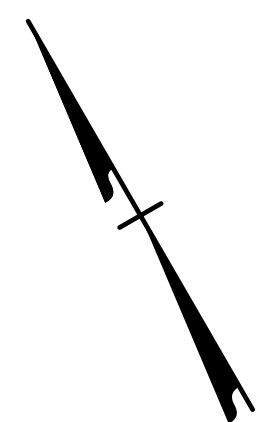
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TRANSPORTATION MANAGEMENT PLAN

PHASE IIA DETAIL



MATCHLINE
-L- STA 112+50+/-
SEE SHEET TMP-26

MATCHLINE
-L- STA 125+00+/-
SEE SHEET TMP-28

-L-
SR 2048
(GORDON RD)

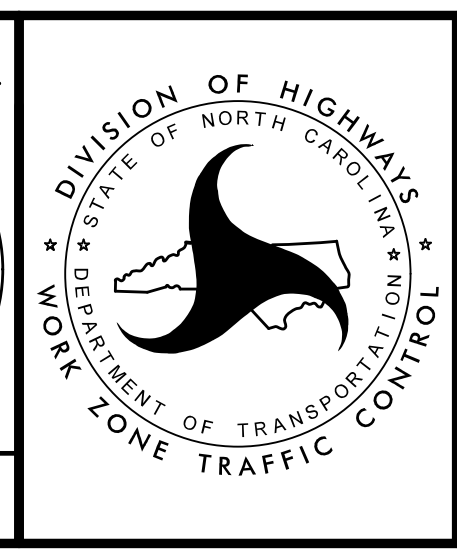
-Y22A-
(WYCK FARM WAY)

-Y23-
SR 2270
(WOOD SORRELL RD)

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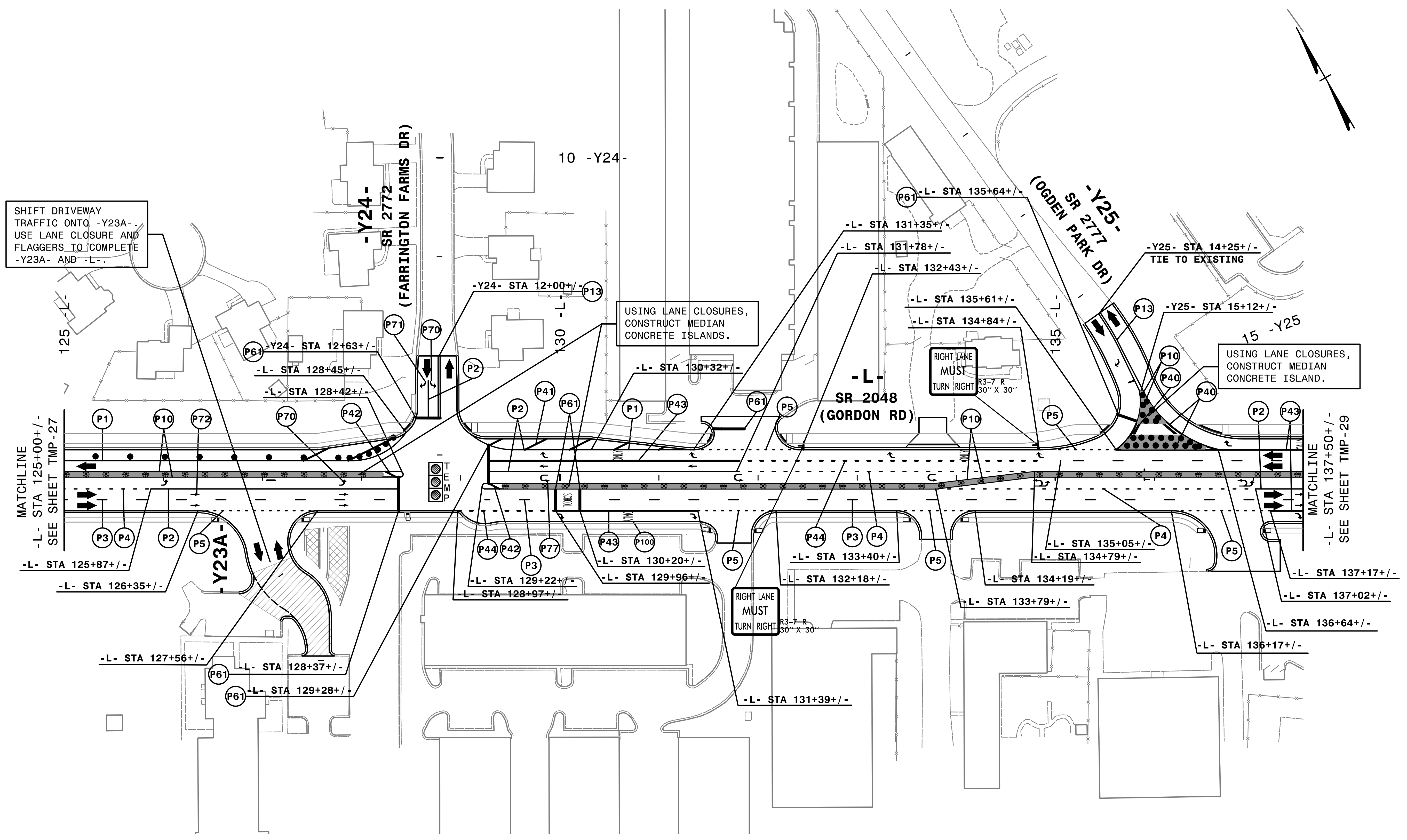
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NORTH CAROLINA PROFESSIONAL ENGINEER
SEAL 042517
HELEN SHYU



TRANSPORTATION
MANAGEMENT PLAN

PHASE IIA
DETAIL

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SHIFT DRIVEWAY TRAFFIC ONTO -Y23A-. USE LANE CLOSURE AND FLAGGERS TO COMPLETE -Y23A- AND -L-.

USING LANE CLOSURES, CONSTRUCT MEDIAN CONCRETE ISLANDS.

RIGHT LANE MUST TURN RIGHT
R3-7 R
30" X 30"

USING LANE CLOSURES, CONSTRUCT MEDIAN CONCRETE ISLAND.

RIGHT LANE MUST TURN RIGHT
R3-7 R
30" X 30"

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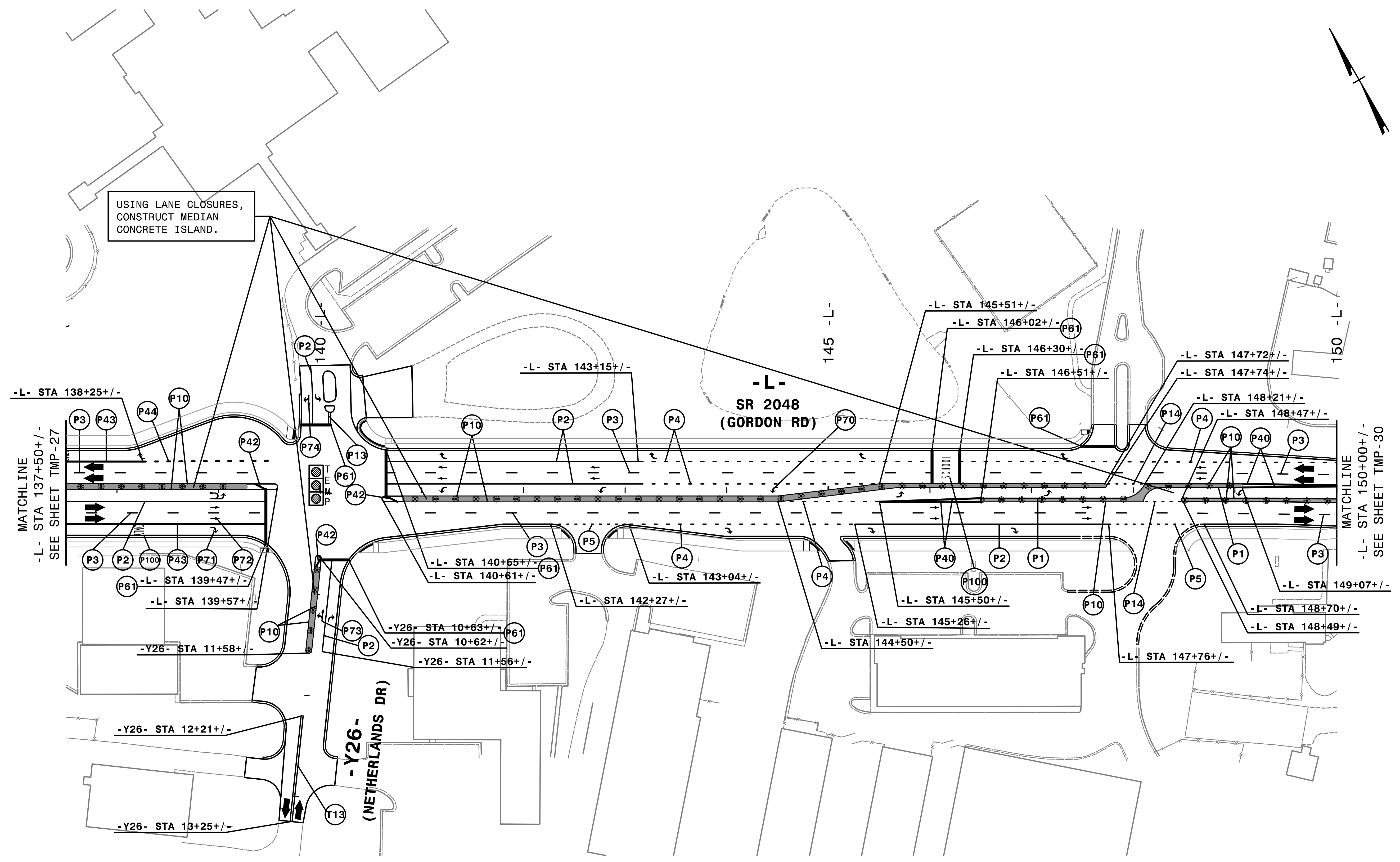
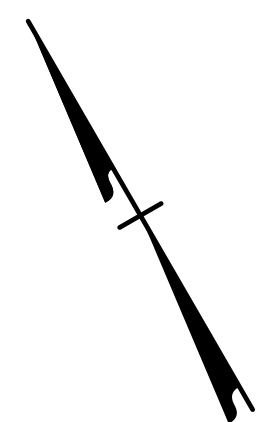
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DATE: 5/16/2024
SEAL
NORTH CAROLINA PROFESSIONAL ENGINEER
SEAL 042517
ENGINEER HELEN SHYU

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

TRANSPORTATION MANAGEMENT PLAN
PHASE IIA
DETAIL

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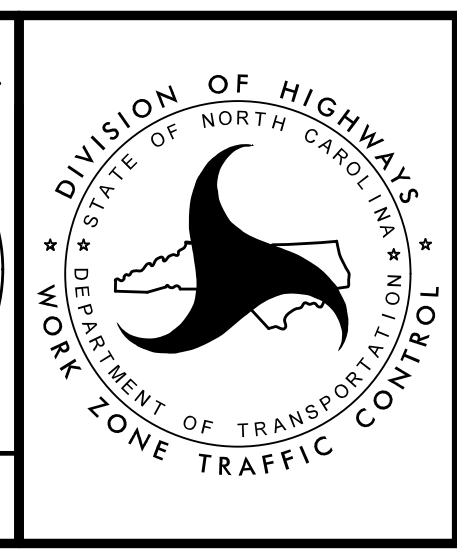
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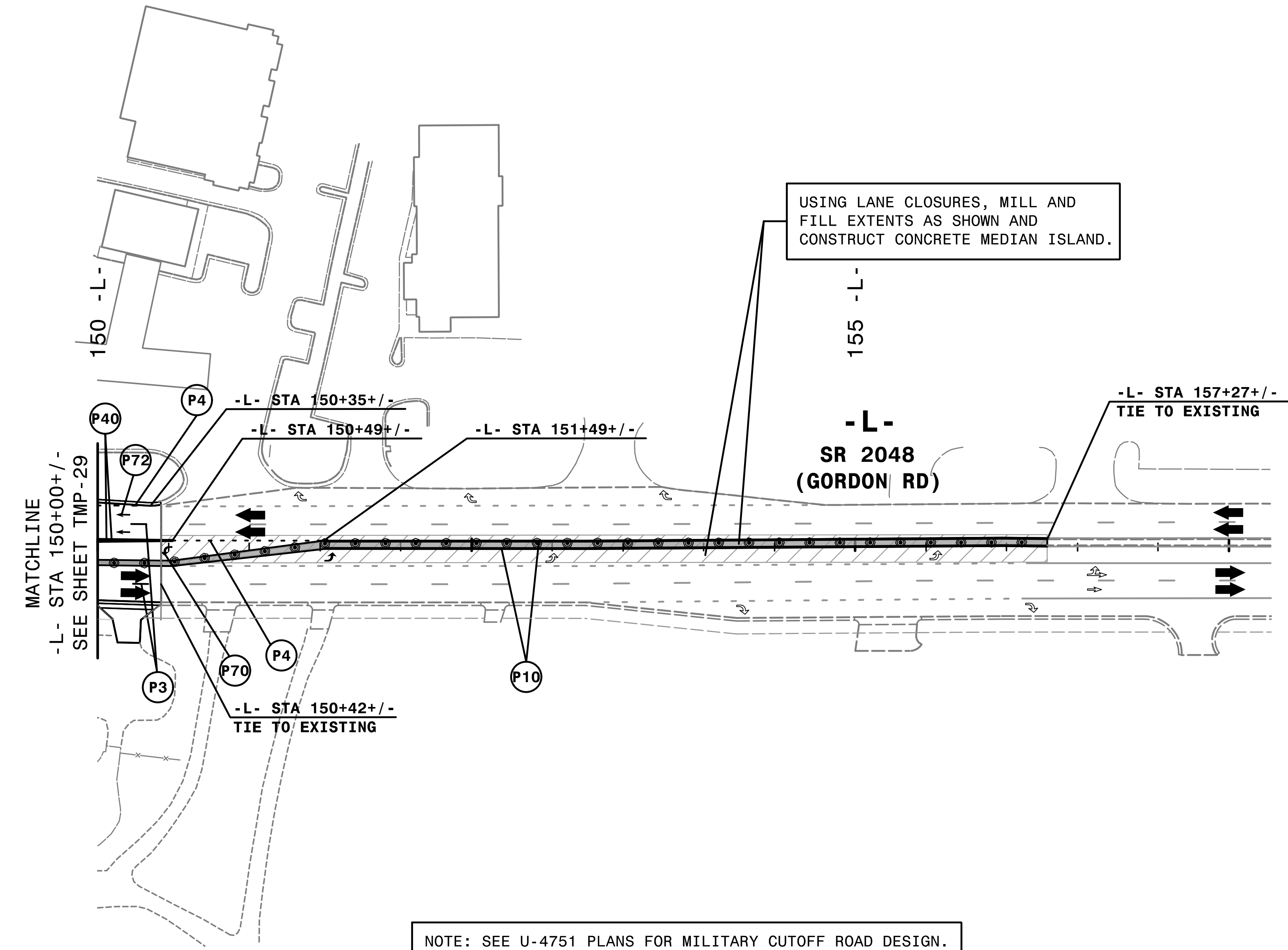
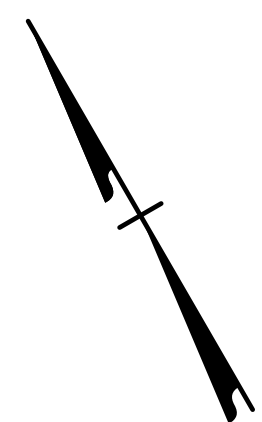
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TRANSPORTATION
 MANAGEMENT PLAN

PHASE IIA
 DETAIL



NOTE: SEE U-4751 PLANS FOR MILITARY CUTOFF ROAD DESIGN.

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4/2/2024

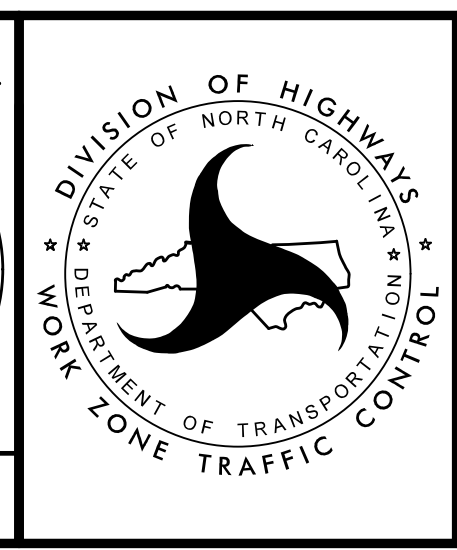


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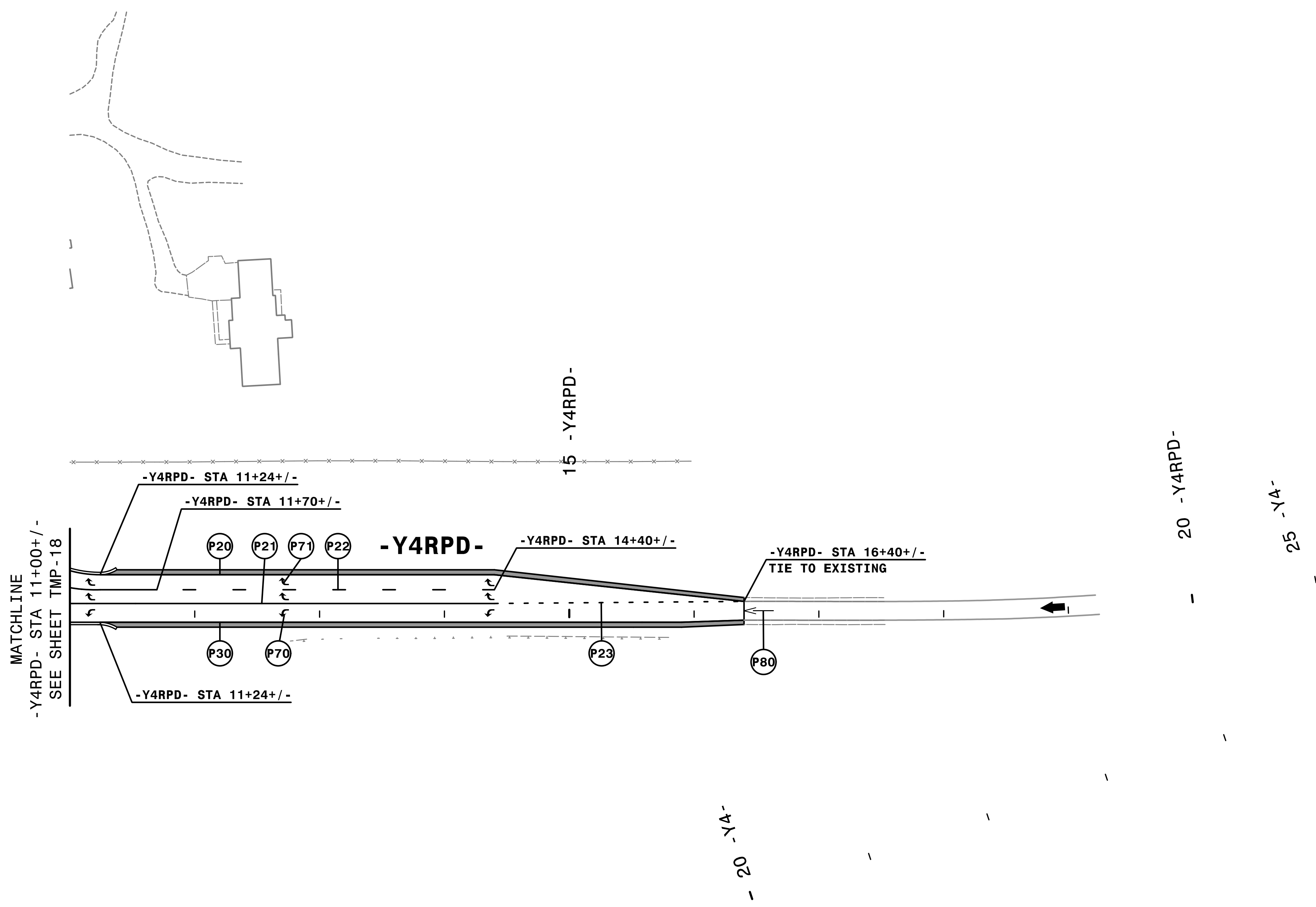
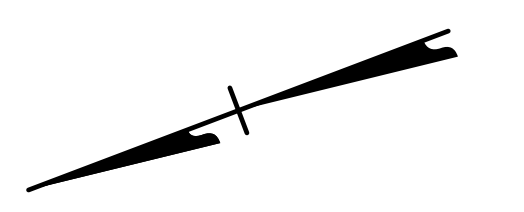
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PROFESSIONAL
ENGINEER
042517
HELEN SHYU

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TRANSPORTATION
MANAGEMENT PLAN

PHASE IIA
DETAIL



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 4/2/2024

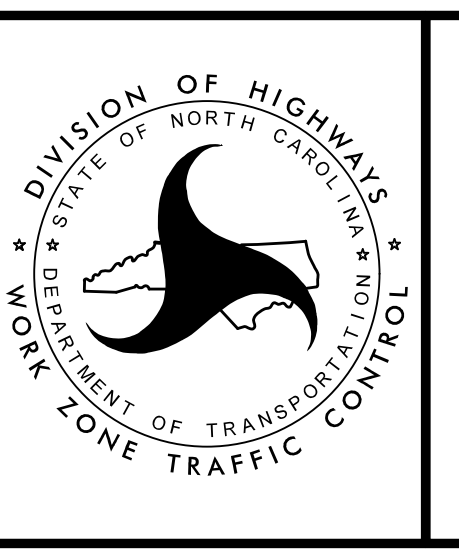


APPROVED: *Helen Shyu*
DESIGNED BY: Helen Shyu OF 15073A85E44EF

DATE: 5/16/2024

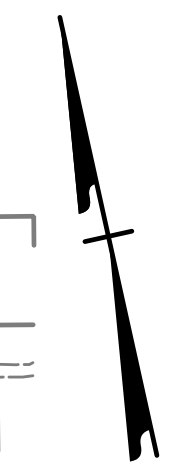
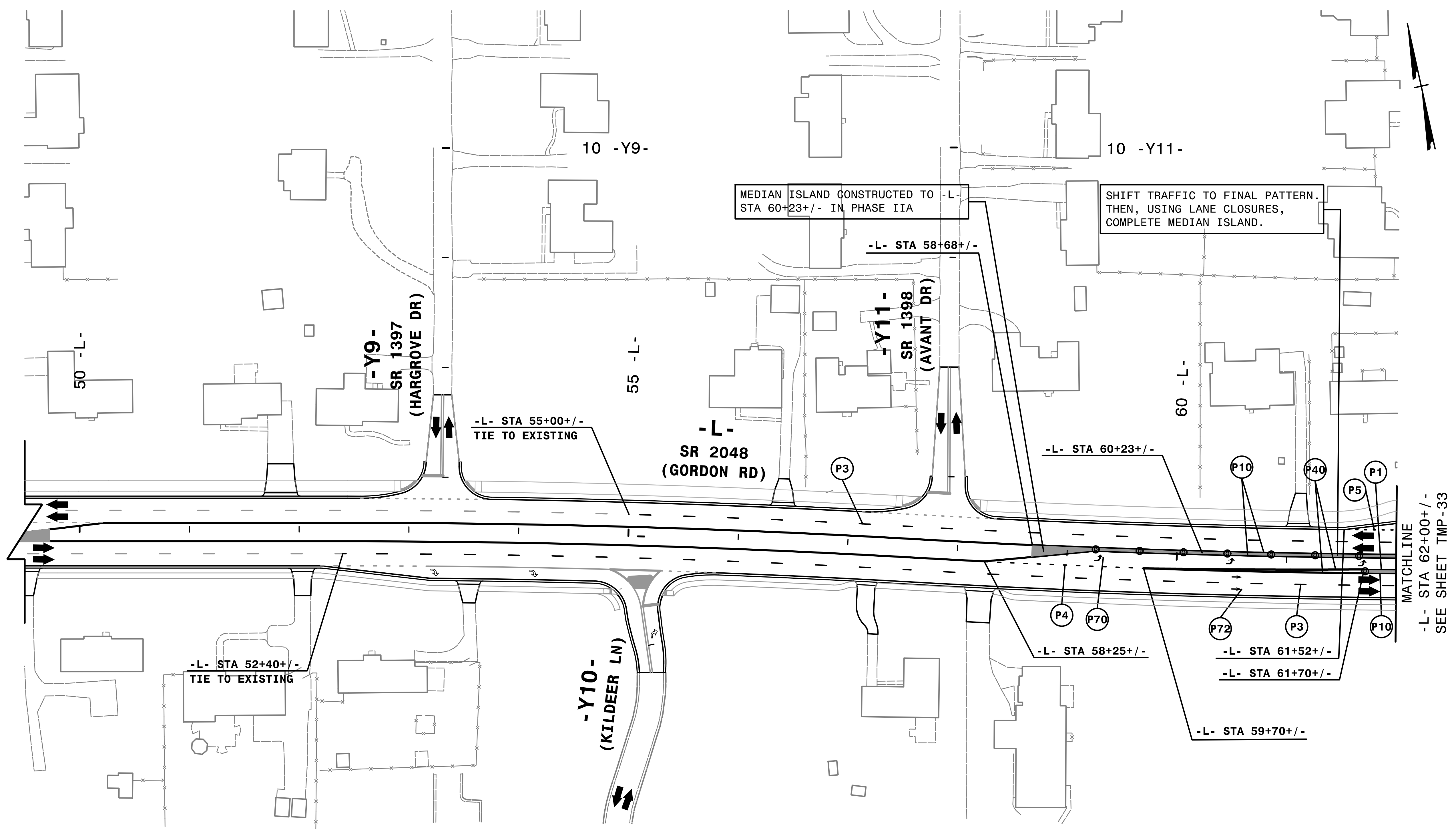
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TRANSPORTATION
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PHASE IIA
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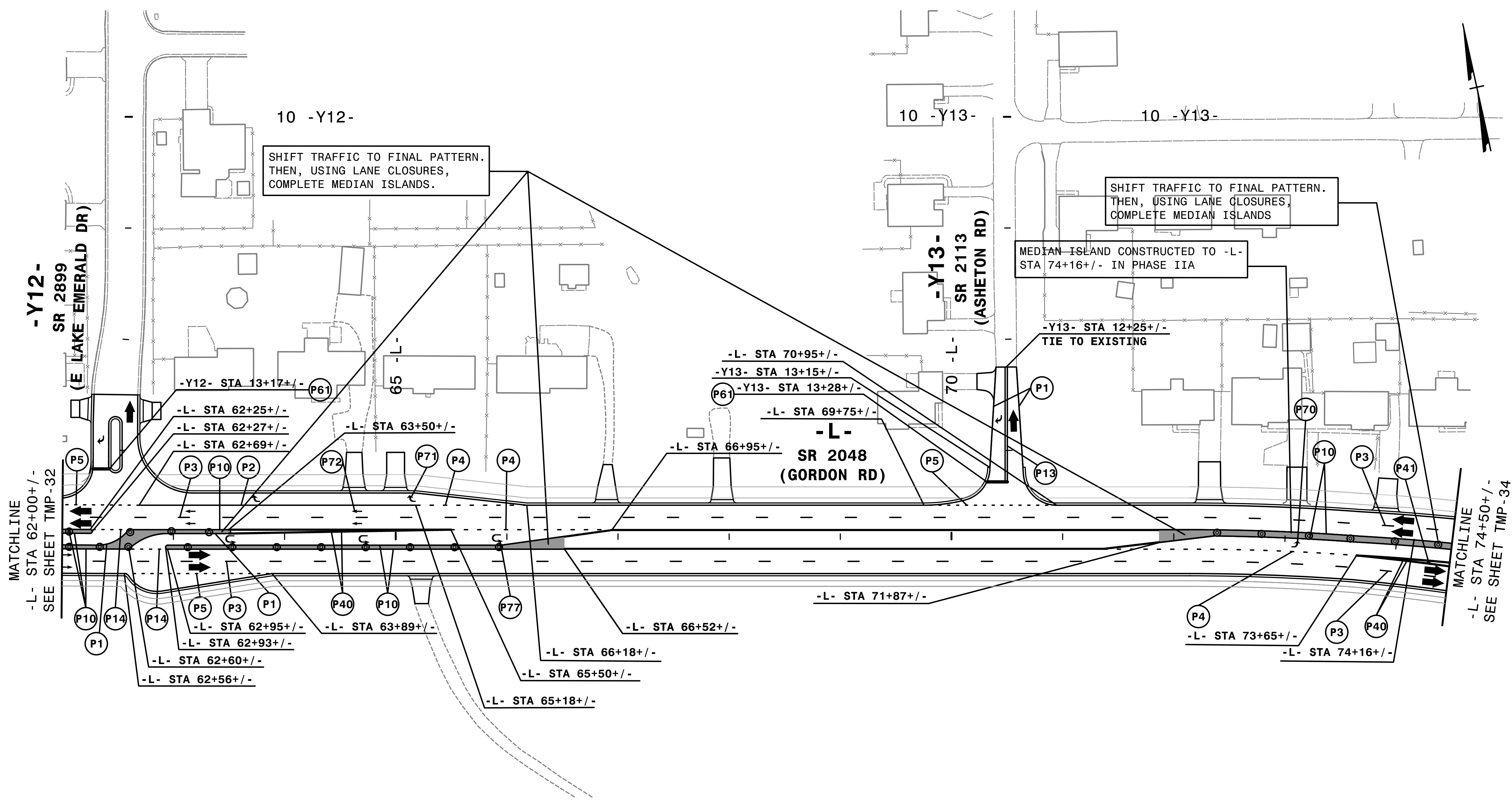
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 NORTH CAROLINA
 DEPARTMENT OF TRANSPORTATION
 WORK ZONE TRAFFIC CONTROL

TRANSPORTATION
 MANAGEMENT PLAN

 PHASE III
 DETAIL

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SHIFT TRAFFIC TO FINAL PATTERN.
THEN, USING LANE CLOSURES,
COMPLETE MEDIAN ISLANDS.

SHIFT TRAFFIC TO FINAL PATTERN.
THEN, USING LANE CLOSURES,
COMPLETE MEDIAN ISLANDS.

MEDIAN ISLAND CONSTRUCTED TO -L-
STA 74+16+/- IN PHASE IIA

-Y13- STA 12+25+/-
TIE TO EXISTING

MATCHLINE
-L- STA 62+00+/-
SEE SHEET TMP-32

MATCHLINE
-L- STA 74+50+/-
SEE SHEET TMP-34

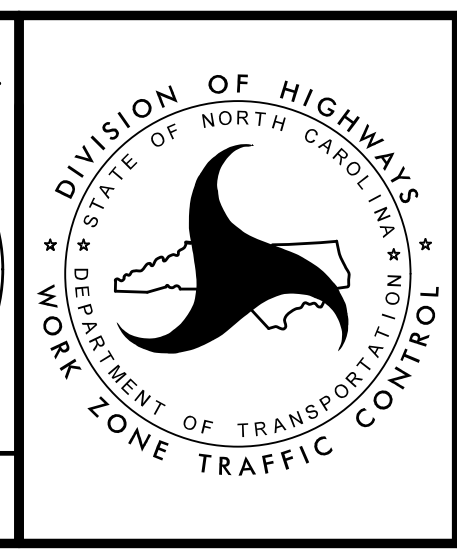
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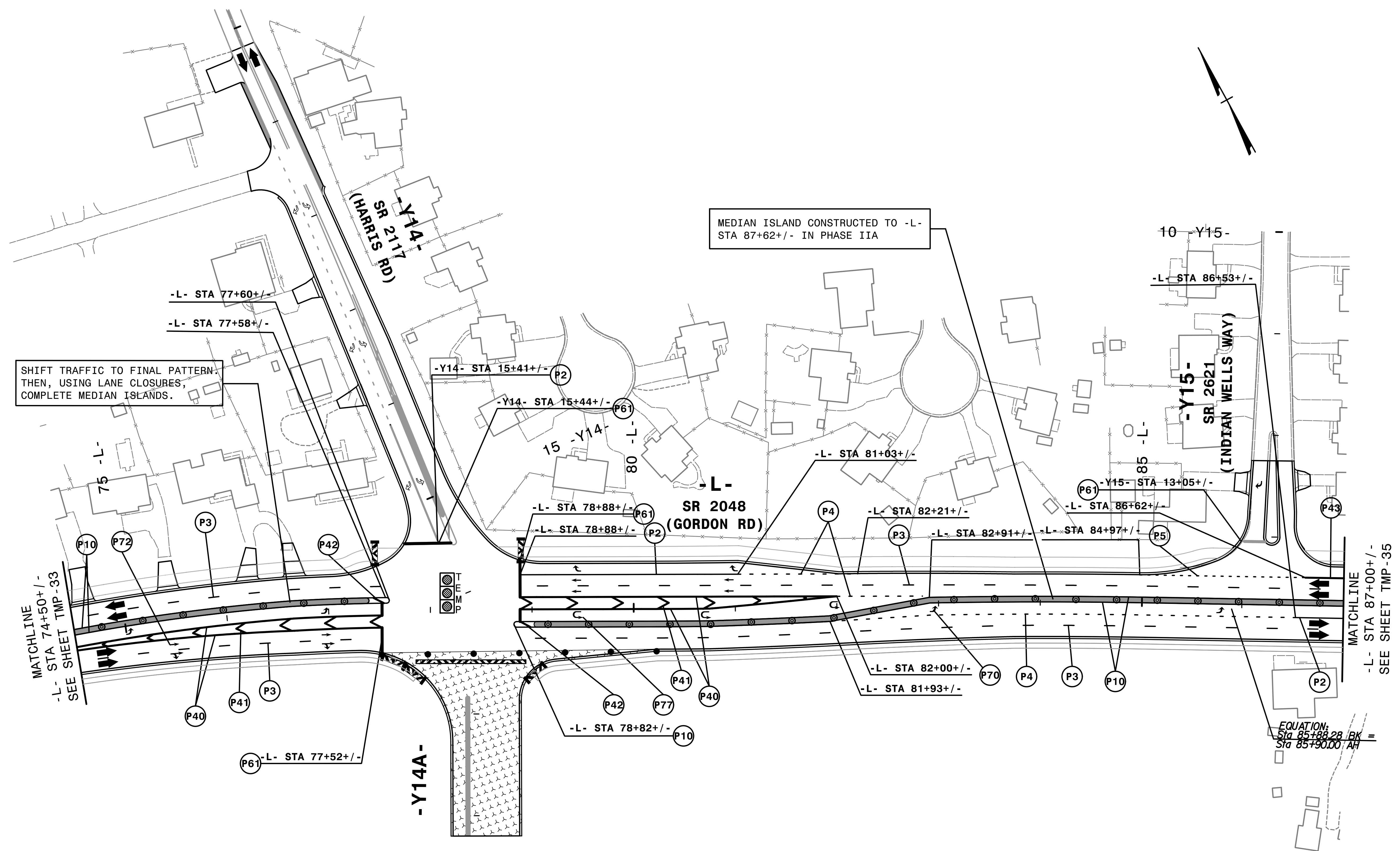
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TRANSPORTATION
MANAGEMENT PLAN

PHASE III
DETAIL



SHIFT TRAFFIC TO FINAL PATTERN, THEN, USING LANE CLOSURES, COMPLETE MEDIAN ISLANDS.

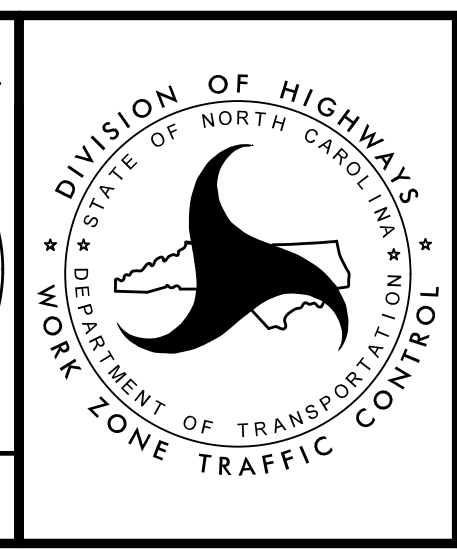
MEDIAN ISLAND CONSTRUCTED TO -L- STA 87+62+/- IN PHASE IIA

EQUATION:
Sta 85+88.28 BK =
Sta 85+90.00 AH

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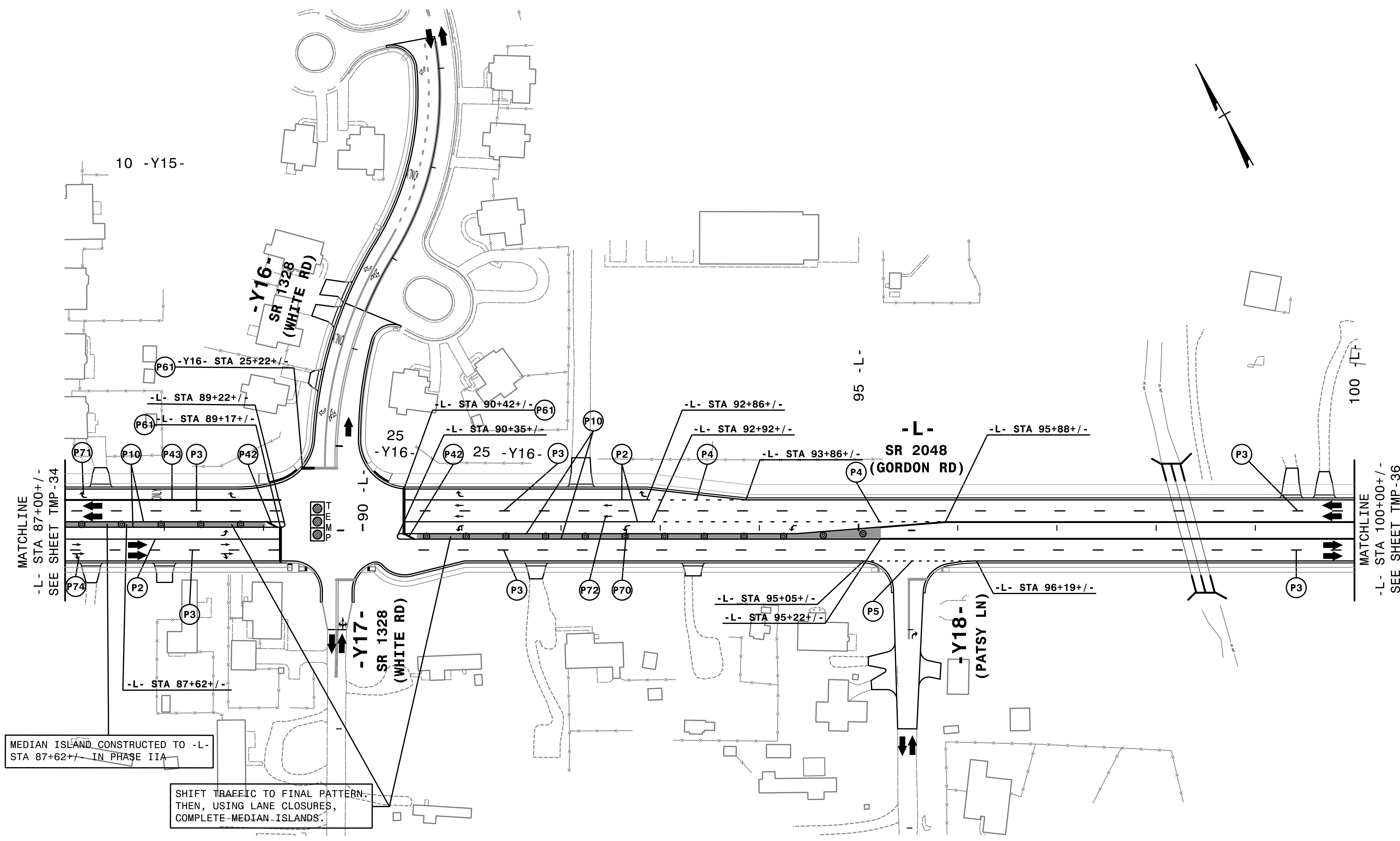
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343 E. Six Forks Road, Suite 200
Raleigh, North Carolina 27609
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SEAL
NORTH CAROLINA PROFESSIONAL SEAL 042517
ENGINEER HELEN SHYU



TRANSPORTATION MANAGEMENT PLAN
PHASE III DETAIL

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MEDIAN ISLAND CONSTRUCTED TO -L- STA 87+62+/- IN PHASE IIA

SHIFT TRAFFIC TO FINAL PATTERN. THEN, USING LANE CLOSURES, COMPLETE MEDIAN ISLANDS.

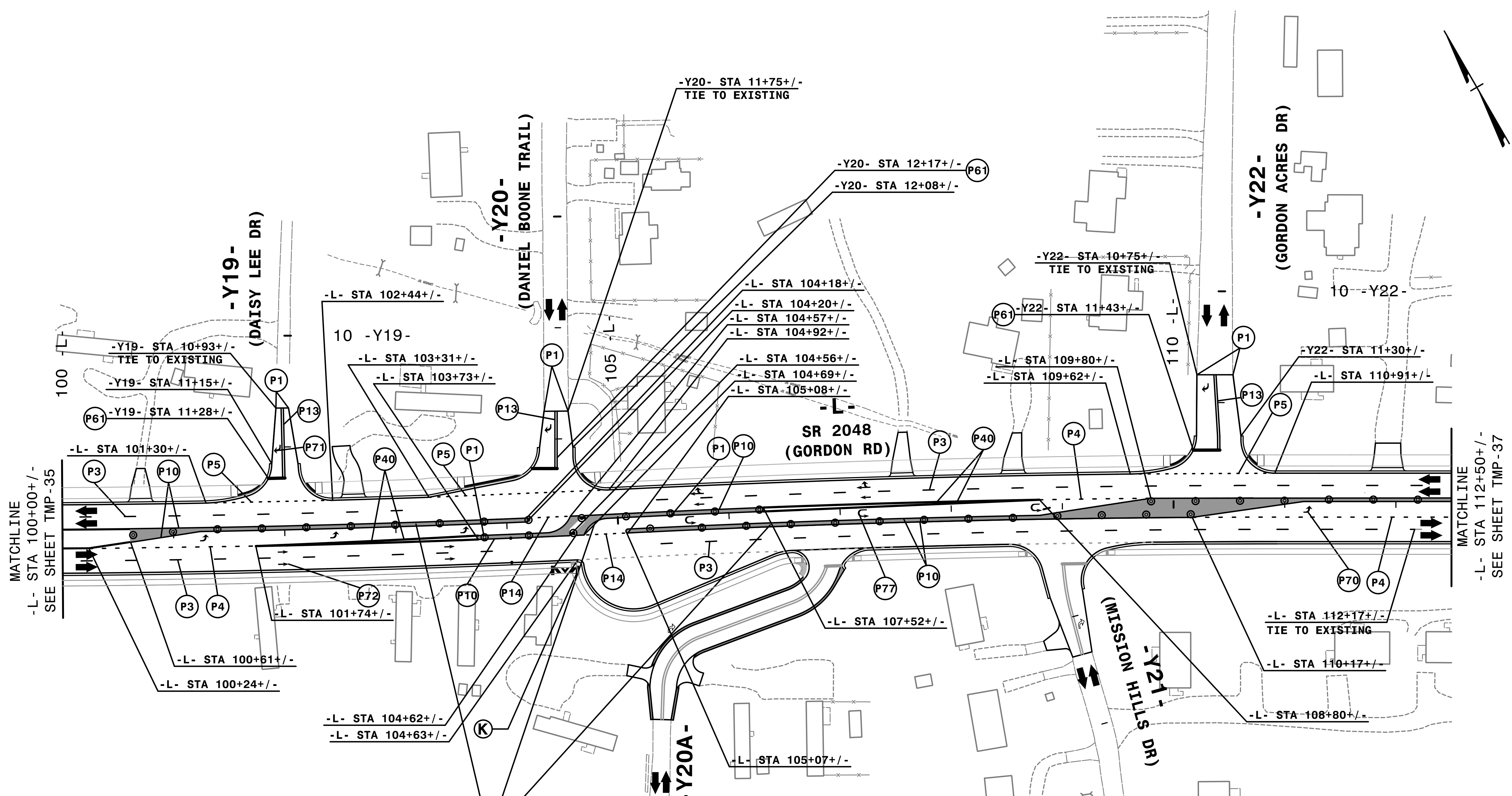
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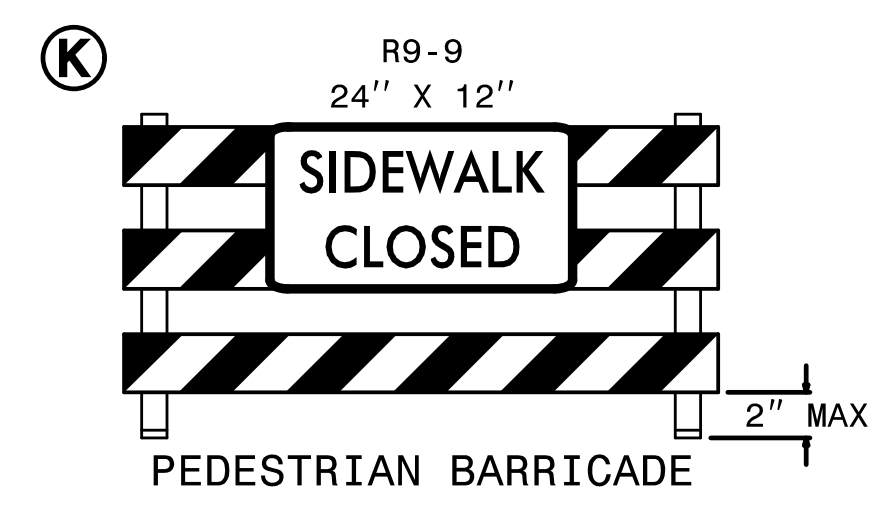
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 NORTH CAROLINA
 STATE OF NORTH CAROLINA
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 WORK ZONE TRAFFIC CONTROL

TRANSPORTATION
 MANAGEMENT PLAN
 PHASE III
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SHIFT TRAFFIC TO FINAL PATTERN.
THEN, USING LANE CLOSURES,
COMPLETE MEDIAN ISLANDS.



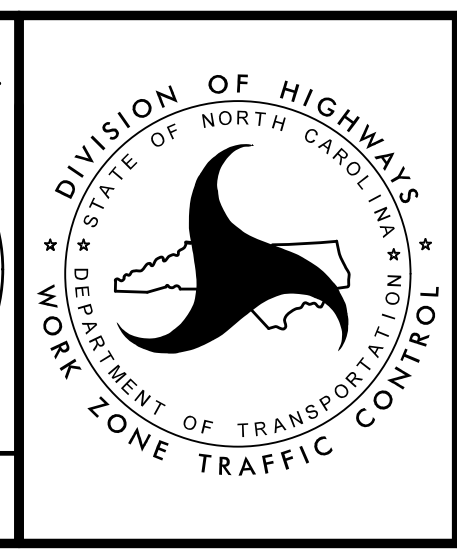
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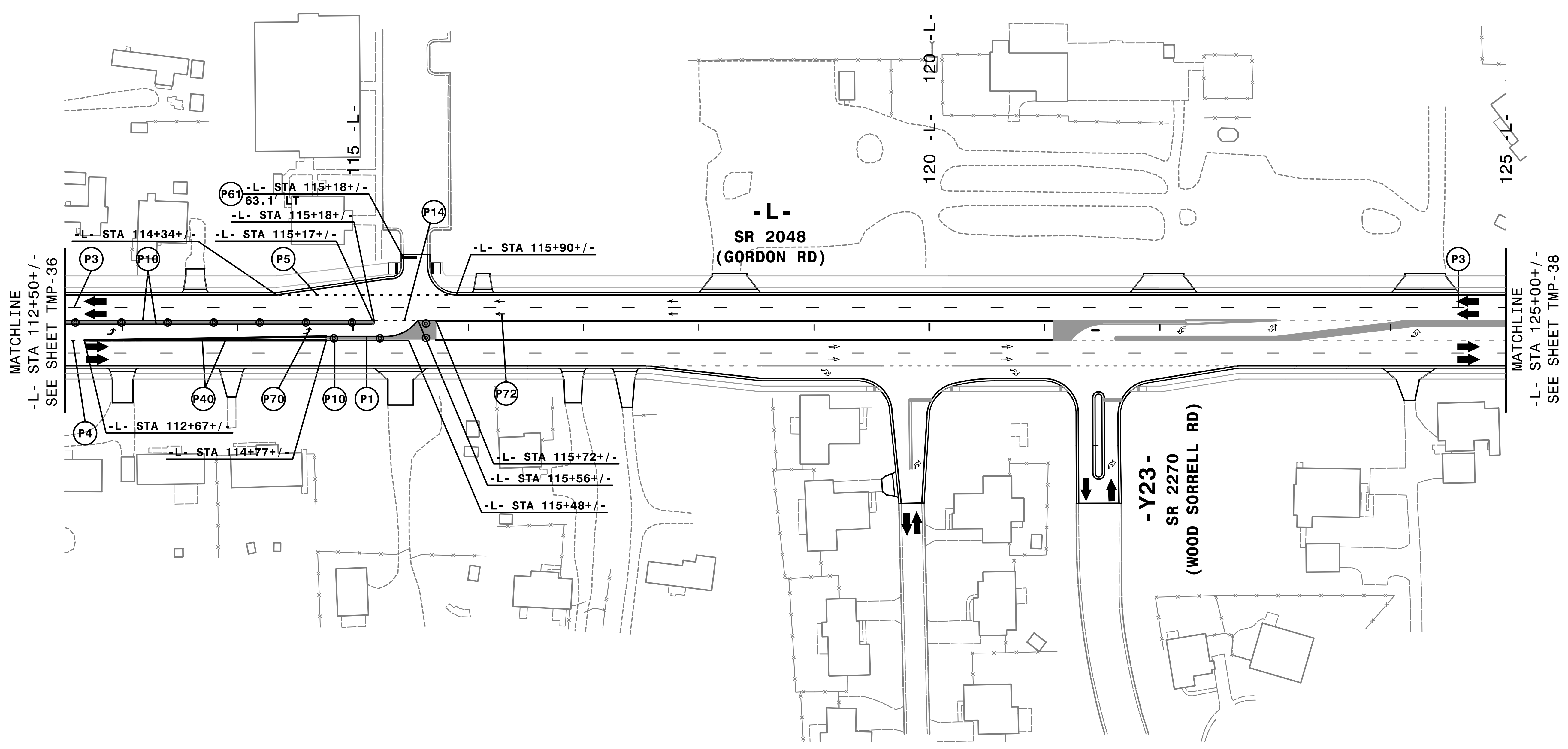
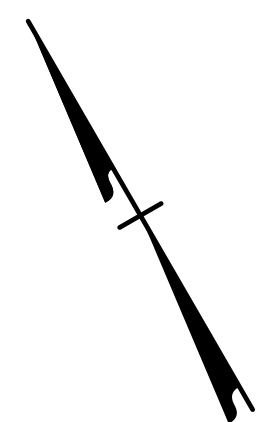
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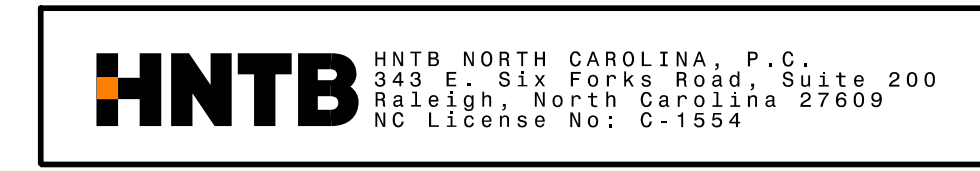


TRANSPORTATION
MANAGEMENT PLAN

PHASE III
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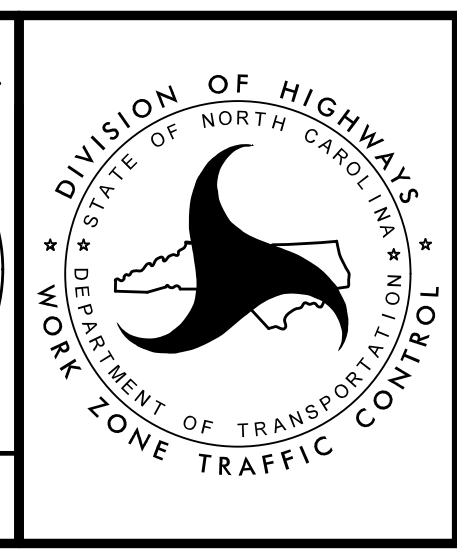


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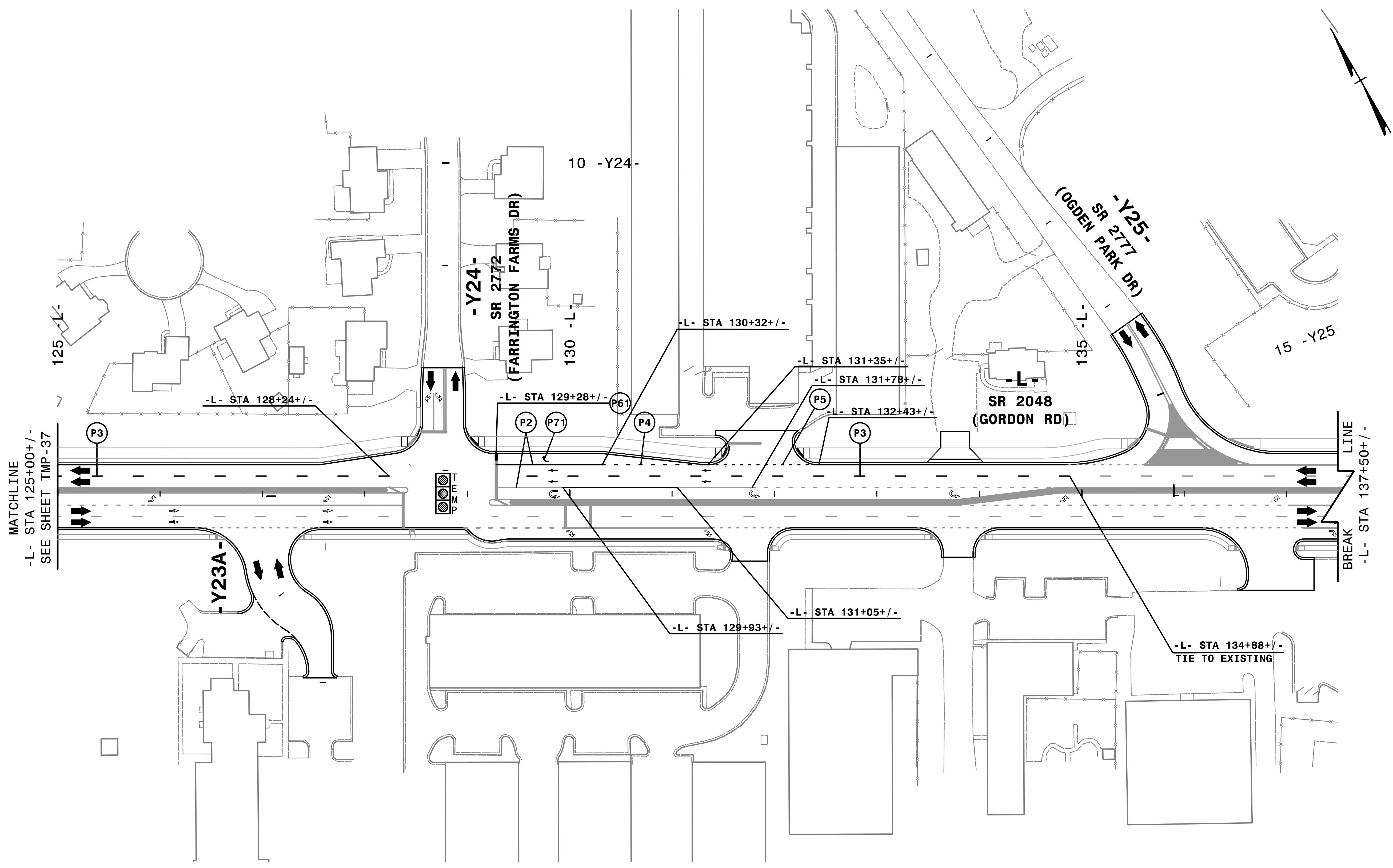
Professional Engineer
 Helen Shyu
 No. 042517
 State of North Carolina

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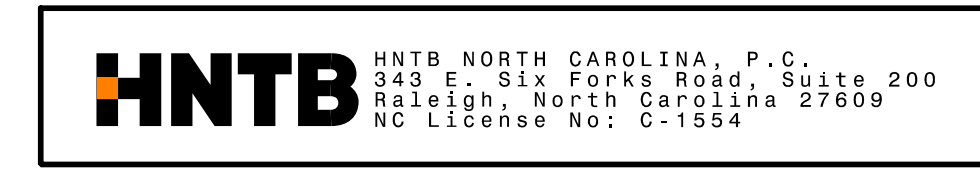


TRANSPORTATION
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PHASE III
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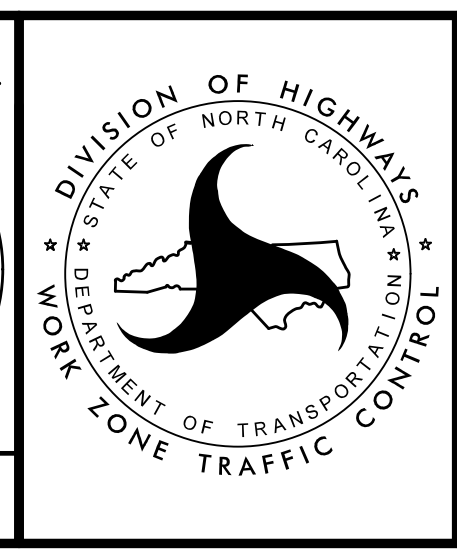
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