

STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

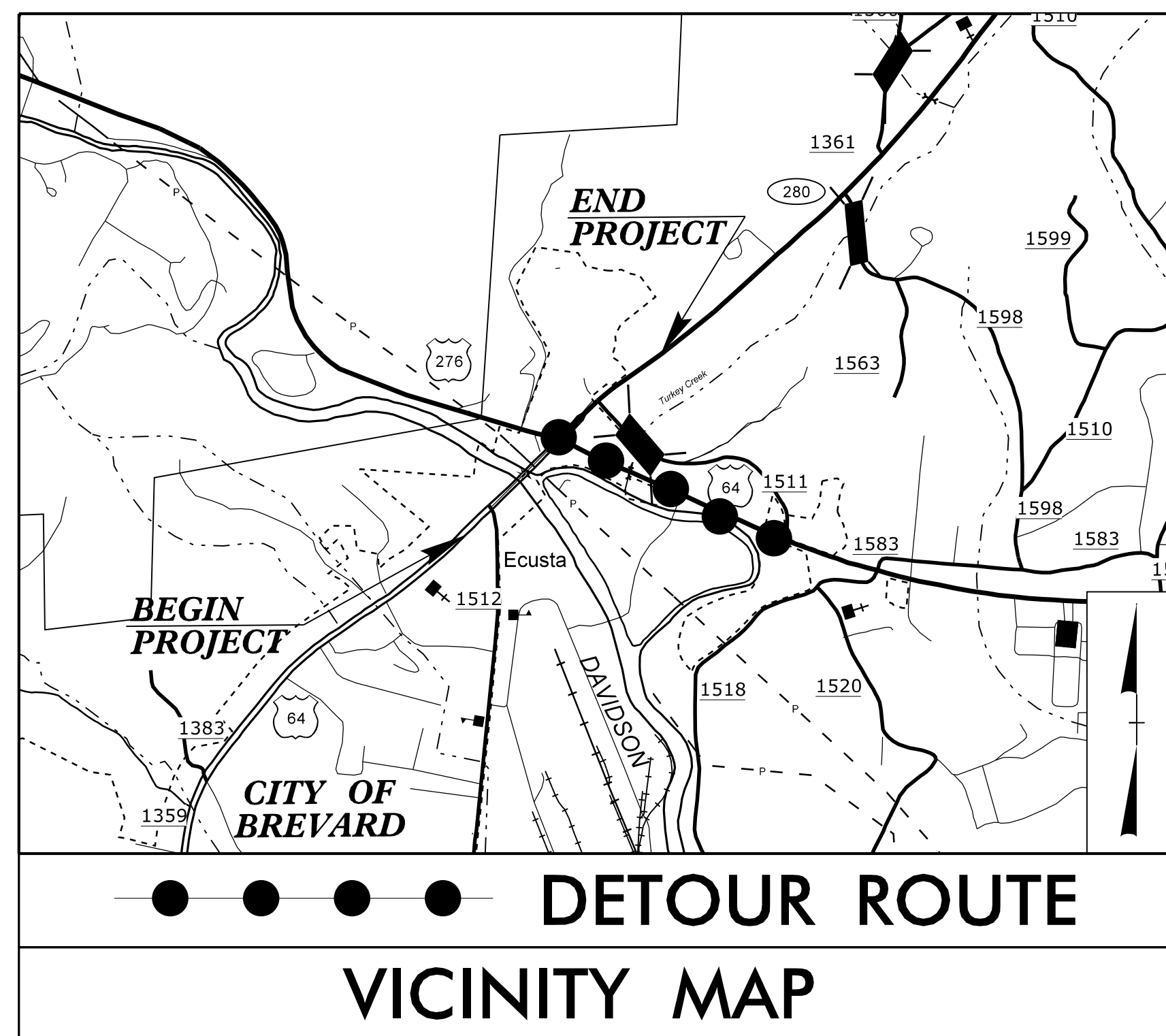
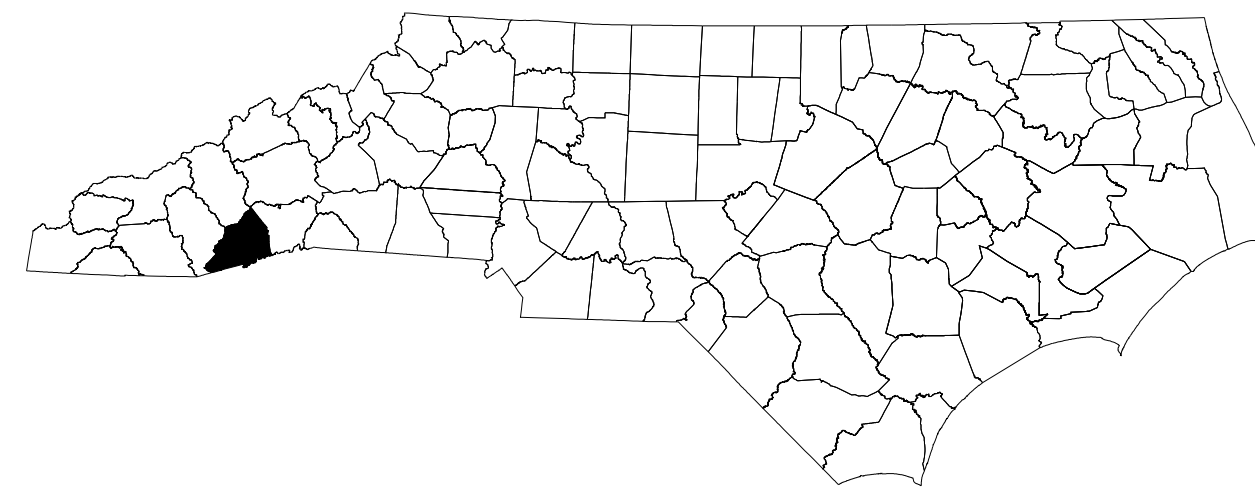
TRANSPORTATION MANAGEMENT PLAN

TRANSYLVANIA COUNTY

LOCATION: INTERSECTIONS OF US 64, US 276 AND NC 280

CONSTRUCT INTERSECTION IMPROVEMENTS

TYPE OF WORK: GRADING, PAVING, DRAINAGE, CULVERT,
RETAINING WALLS, SIGNALS, AND SIGNING



INDEX OF SHEETS

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TMP-1B THRU 1D	TRANSPORTATION OPERATIONS PLAN: (MANAGEMENT STRATEGY, GENERAL NOTES, AND LOCAL NOTES)
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TMP-2B	REVISED PAVEMENT MARKING BRIDGES ROADWAY STANDARD DRAWING
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TMP-21 THRU 23	PHASE VI STEP 2 DETAILS

SHEET NO.
TMP-1

R-5799

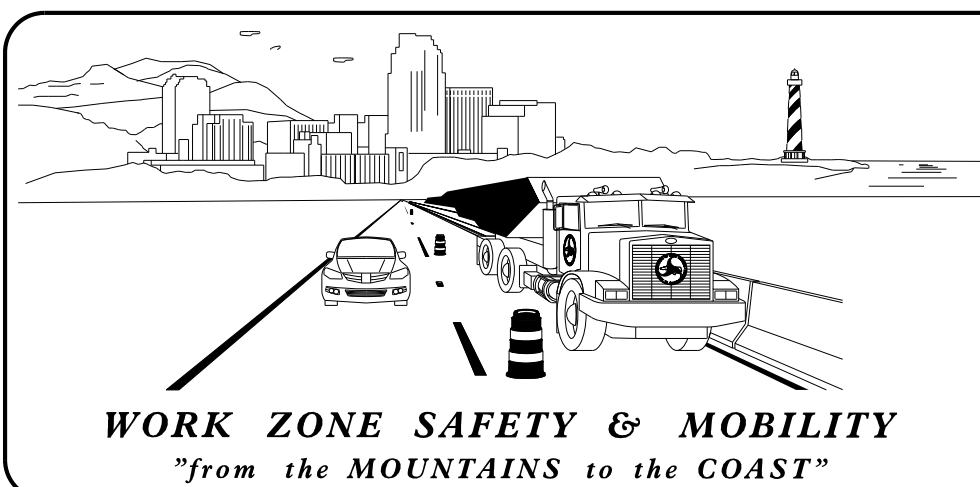
TIP PROJECT:

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APPROVED: Allison C. Drake
DATE: 6/15/2023

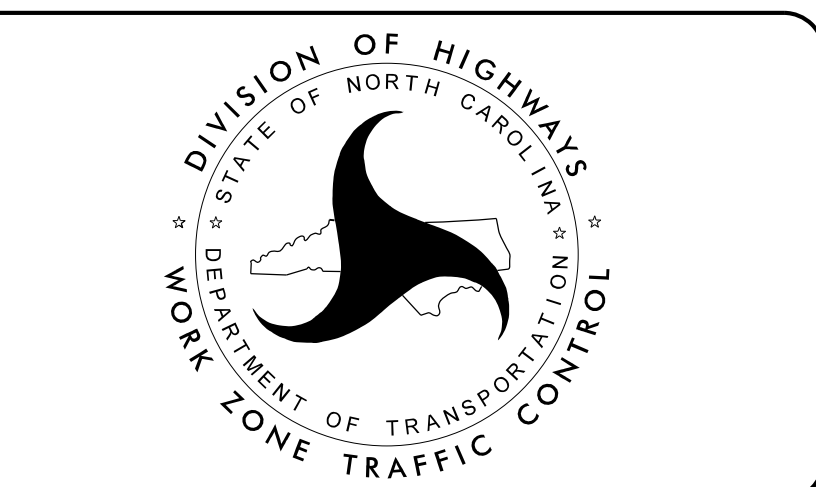


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PLANS PREPARED BY:
ALLISON C. DRAKE, P.E.
PROJECT ENGINEER
REBECCA E. MCLAUGHLIN, E.I.
PROJECT DESIGN ENGINEER

NCDOT CONTACTS:
BARRY MOSTELLER
NCDOT PROJECT CONTACT



ROADWAY STANDARD DRAWINGS

THE FOLLOWING ROADWAY STANDARDS AS SHOWN IN "ROADWAY STANDARD DRAWINGS" - N.C. DEPARTMENT OF TRANSPORTATION - RALEIGH, N.C., DATED JANUARY 2018 ARE APPLICABLE TO THIS PROJECT AND BY REFERENCE HEREBY ARE CONSIDERED A PART OF THESE PLANS:

STD. NO.	TITLE
1101.01	WORK ZONE WARNING SIGNS
1101.02	TEMPORARY LANE CLOSURES
1101.03	TEMPORARY ROAD CLOSURES
1101.04	TEMPORARY SHOULDER CLOSURES
1101.11	TRAFFIC CONTROL DESIGN TABLES
1110.01	STATIONARY WORK ZONE SIGNS
1110.02	PORTABLE WORK ZONE SIGNS
1115.01	FLASHING ARROW BOARDS
1130.01	DRUMS
1145.01	BARRICADES
1150.01	FLAGGING DEVICES
1160.01	TEMPORARY CRASH CUSHION
1165.01	TRUCK MOUNTED ATTENUATOR
1170.01	PORTABLE CONCRETE BARRIER
1180.01	SKINNY - DRUMS
1205.01	PAVEMENT MARKINGS - LINE TYPES AND OFFSETS
1205.02	PAVEMENT MARKINGS - TWO LANE AND MULTILANE ROADWAYS
1205.04	PAVEMENT MARKINGS - INTERSECTIONS
1205.05	PAVEMENT MARKINGS - TURN LANES
1205.07	PAVEMENT MARKINGS - PEDESTRIAN CROSSWALKS
1205.08	PAVEMENT MARKINGS - SYMBOLS AND WORD MESSAGES
1205.09	PAVEMENT MARKINGS - PAINTED ISLANDS
1205.14	PAVEMENT MARKINGS - ROUNDABOUTS
1250.01	RAISED PAVEMENT MARKERS - INSTALLATION SPACING
1251.01	RAISED PAVEMENT MARKERS - (PERMANENT AND TEMPORARY)
1253.01	RAISED PAVEMENT MARKERS - (SNOWPLOWABLE)
1261.01	GUARDRAIL AND BARRIER DELINEATORS - INSTALLATION SPACING
1261.02	GUARDRAIL AND BARRIER DELINEATORS - TYPES AND MOUNTING
1262.01	GUARDRAIL END DELINEATION

LEGEND

GENERAL

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

- WORK AREA
- CONTINUOUS WORK AREA
- WEDGING
- REMOVAL
- TEMPORARY PAVEMENT

SIGNALS

- EXISTING
- PROPOSED
- TEMPORARY

PAVEMENT MARKINGS

- EXISTING LINES
- TEMPORARY LINES

TEMPORARY PAVEMENT MARKING

P1	WHITE EDGELINE (4")	P46	WHITE CROSSWALK LINE (8")
P2	WHITE SOLID LANE LINE (4")	P61	WHITE STOPBAR (24")
P3	10FT. WHITE SKIP (4")	P70	LEFT TURN ARROW
P4	3FT.-9FT./SP WHITE MINISKIP (4")	P71	RIGHT TURN ARROW
P5	2FT.-6FT./SP WHITE MINISKIP (4")	P72	STRAIGHT ARROW
P10	YELLOW EDGELINE (4")	P73	COMBO. LEFT/STRAIGHT ARROW
P13	DOUBLE YELLOW CENTERLINE (4")	P74	COMBO. RIGHT/STRAIGHT ARROW
P21	WHITE LANE LINE (6")	P76	COMBO. LEFT/RIGHT/STRAIGHT ARROW
P40	WHITE GORELINE (8")	P100	ALPHANUMERIC CHARACTER
P42	YELLOW DIAGONAL (8")	P103	24" YIELD LINE TRIANGLE

TRAFFIC CONTROL DEVICES

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

TEMPORARY SIGNING

- PORTABLE SIGN
- STATIONARY SIGN
- STATIONARY OR PORTABLE SIGN

PAVEMENT MARKERS

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

PROPOSED PAVEMENT MARKING SYMBOLS

- PAVEMENT MARKING SYMBOLS

EXISTING PAVEMENT MARKING SYMBOLS

- PAVEMENT MARKING SYMBOLS

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APPROVED: DATE: 6/15/2023			<h3>ROADWAY STANDARD DRAWINGS & LEGEND</h3>
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RS&H 1520 SOUTH BOULEVARD, SUITE 200
 CHARLOTTE, NC 28203
 NC FIRM LICENSE No: F-0493

MANAGEMENT STRATEGY

PHASE I: USING A COMBINATION OF SHORT TERM LANE CLOSURES, POSITIVE PROTECTION AND TEMPORARY SHORING, CONSTRUCT WEDGING AND WIDENING OF -Y2- (US 64 HENDERSONVILLE HWY).

PHASE II: WITH TRAFFIC IN EXISTING PATTERN, USE SHORT TERM LANE CLOSURES, A TEMPORARY SIGNAL, AND A PEDESTRIAN DETOUR TO CONSTRUCT WEDGING AND WIDENING OF -Y1- (ECUSTA RD), PROPOSED LEFT TURN LANE AND WEDGING ON -L- (US 276/64/NC 280 ASHEVILLE HWY), SIDEWALK ON -Y1- AND -L- (LT), AND PEDESTRIAN REFUGES.

PHASE III: USING SHORT TERM LANE CLOSURES AND A TEMPORARY SIGNAL AT -Y1-, REMOVE EXISTING MEDIANS AND WEDGE ALONG -L-, -Y2-, AND -Y3- (US 276 PISGAH HWY).

PHASE IV: USING A COMBINATION OF SHORT TERM LANE CLOSURES, TEMPORARY SIGNALS, ROAD CLOSURES, AND A DETOUR ALONG -Y2-, CONSTRUCT WEDGING AND WIDENING OF -L- (RT), -Y2-, AND -Y4- (DEAVOR RD).

PHASE V: SHIFT TRAFFIC INTO NEW TRAFFIC PATTERN. USING SHORT TERM LANE CLOSURES, TEMPORARY SIGNALS, AND ROAD CLOSURES, CONSTRUCT WEDGING AND WIDENING OF -L- (LT) , -Y3-, -Y4-, AND -Y5- (FOREST GATE DR).

PHASE VI: USING SHORT TERM LANE CLOSURES, CONSTRUCT PEDESTRIAN REFUGES AND MEDIANS ALONG -L-, -Y2-, -Y3-, -Y4-, -Y5-, -RA1-, AND -RA2-. SHIFT TRAFFIC INTO FINAL PATTERN.

GENERAL NOTES / LOCAL 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
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1. US 64/276/NC 280 M - SUN, 7 AM-9 PM
2. US 64 M - SUN, 7 AM-9 PM
3. ECUSTA ROAD M - F, 6-9 AM and 2:30-4:30 PM, WHEN SCHOOL IS IN SESSION

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

US 64/276/NC 280, US 64, AND, ECUSTA ROAD

HOLIDAY

1. FOR ANY UNEXPECTED OCCURRENCE THAT CREATES UNUSUALLY HIGH TRAFFIC VOLUMES, AS DIRECTED BY THE ENGINEER.
2. FOR NEW YEAR'S, BETWEEN THE HOURS OF 9:00 P.M. DECEMBER 31st TO 7:00 A.M. JANUARY 2ND. IF NEW YEAR'S DAY IS ON A FRIDAY, SATURDAY, SUNDAY, OR MONDAY THEN UNTIL 7:00 A.M. THE FOLLOWING TUESDAY.
3. FOR EASTER, BETWEEN THE HOURS OF 9:00 P.M. THURSDAY AND 7:00 A.M. MONDAY.
4. FOR MEMORIAL DAY, BETWEEN THE HOURS OF 9:00 P.M. FRIDAY TO 7:00 A.M. TUESDAY.
5. FOR INDEPENDENCE DAY, BETWEEN THE HOURS OF 9:00 P.M. THE DAY BEFORE INDEPENDENCE DAY AND 7:00 A.M. THE DAY AFTER INDEPENDENCE DAY.

IF INDEPENDENCE DAY IS ON A FRIDAY, SATURDAY, SUNDAY OR MONDAY



THEN BETWEEN THE HOURS OF 9:00 P.M. THE THURSDAY BEFORE INDEPENDENCE DAY AND 7:00 A.M. THE TUESDAY AFTER INDEPENDENCE DAY.

6. FOR LABOR DAY, BETWEEN THE HOURS OF 9:00 P.M. FRIDAY AND 7:00 A.M. TUESDAY.
7. FOR THANKSGIVING DAY, BETWEEN THE HOURS OF 9:00 P.M. TUESDAY TO 7:00 A.M. MONDAY.
8. FOR CHRISTMAS, BETWEEN THE HOURS OF 9:00 P.M. THE FRIDAY BEFORE THE WEEK OF CHRISTMAS DAY AND 7:00 A.M. THE FOLLOWING TUESDAY AFTER THE WEEK OF CHRISTMAS.
9. FOR AUTUMN LEAF SEASON, OCTOBER THRU NOVEMBER, M-SUN, BETWEEN THE HOURS OF 6:00 A.M. TO 9:00 P.M.

LANE AND SHOULDER CLOSURE REQUIREMENTS

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

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<p>DocuSigned by: <i>Allison C. Drake</i></p> <p>APPROVED: _____</p> <p>DATE: 7/12/2023</p>			<p>TRANSPORTATION OPERATIONS PLAN: (MANAGEMENT STRATEGY, GENERAL NOTES, AND LOCAL NOTES)</p>
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GENERAL NOTES / LOCAL NOTES

LANE AND SHOULDER CLOSURE REQUIREMENTS

E) 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.

F) 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.

G) 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.

H) DO NOT INSTALL MORE THAN 500 FT OF LANE CLOSURE ON ALL ALIGNMENTS MEASURED FROM THE BEGINNING OF THE MERGE TAPER TO THE END OF THE LANE CLOSURE.

I) DO NOT INSTALL MORE THAN ONE SIMULTANEOUS LANE CLOSURES IN ANY ONE DIRECTION ON ALL ALIGNMENTS.

J) DO NOT INSTALL MORE THAN ONE LANE CLOSURE IN ANY ONE DIRECTION ON ALL ALIGNMENTS.

K) PROVIDE A MINIMUM OF 500 FT BETWEEN LANE CLOSURES, MEASURED FROM THE END OF ONE CLOSURE TO THE FIRST SIGN OF THE NEXT LANE CLOSURE.

L) PROVIDE TRAFFIC CONTROL FOR APPROPRIATE LANE CLOSURES FOR SURVEYING DONE BY THE DEPARTMENT.

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

TRAFFIC PATTERN ALTERATIONS

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

SIGNING

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

Q) CONTRACTOR WILL BE RESPONSIBLE FOR PROVIDING SIGNING AND DEVICES REQUIRED TO CLOSE THE ROAD ACCORDING TO THE ROADWAY STANDARD DRAWINGS AND TRAFFIC CONTROL PLANS.

CONTRACTOR WILL BE RESPONSIBLE FOR PROVIDING SIGNING REQUIRED FOR THE OFF-SITE DETOUR ROUTE AS SHOWN IN THE TRAFFIC CONTROL PLANS.

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

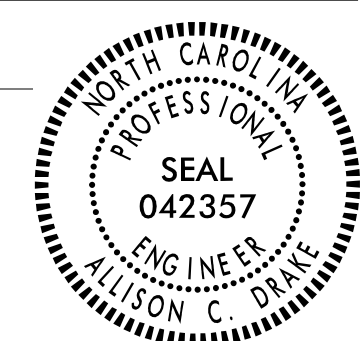

CONTRACTOR WILL COVER OR REMOVE ALL SIGNS REQUIRED FOR THE OFF-SITE DETOUR WHEN THE DETOUR IS NOT IN OPERATION.

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) 100 FT IN ADVANCE OF THE UNEVEN AREA, OR AS DIRECTED BY THE ENGINEER.

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CHARLOTTE, NC 28203
NC FIRM LICENSE No: F-0493

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GENERAL NOTES / LOCAL NOTES

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 PREFORMED 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.

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 EACH 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.

PAVEMENT MARKINGS AND MARKERS

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

ROAD NAME	MARKING	MARKER
ALL ROADS	PAINT	NONE

Z) 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.

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

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

CC) 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

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

EE) 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) 100 FT AND 100 FT RESPECTIVELY IN ADVANCE OF THE UNEVEN AREAS. USE DRUMS TO DELINEATE THE EDGE OF ROADWAY ALONG UNPAVED AREAS.

FF) 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.


GG) 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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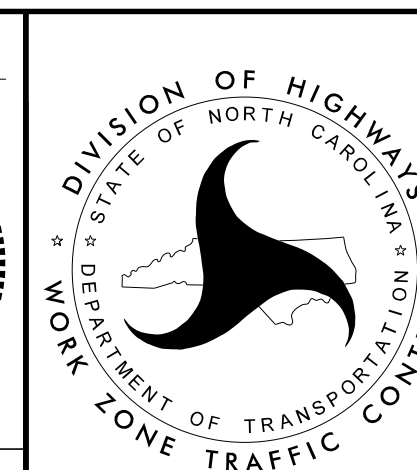
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Allison C. Drake
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ENGINEER
ALLISON C. DRAKE

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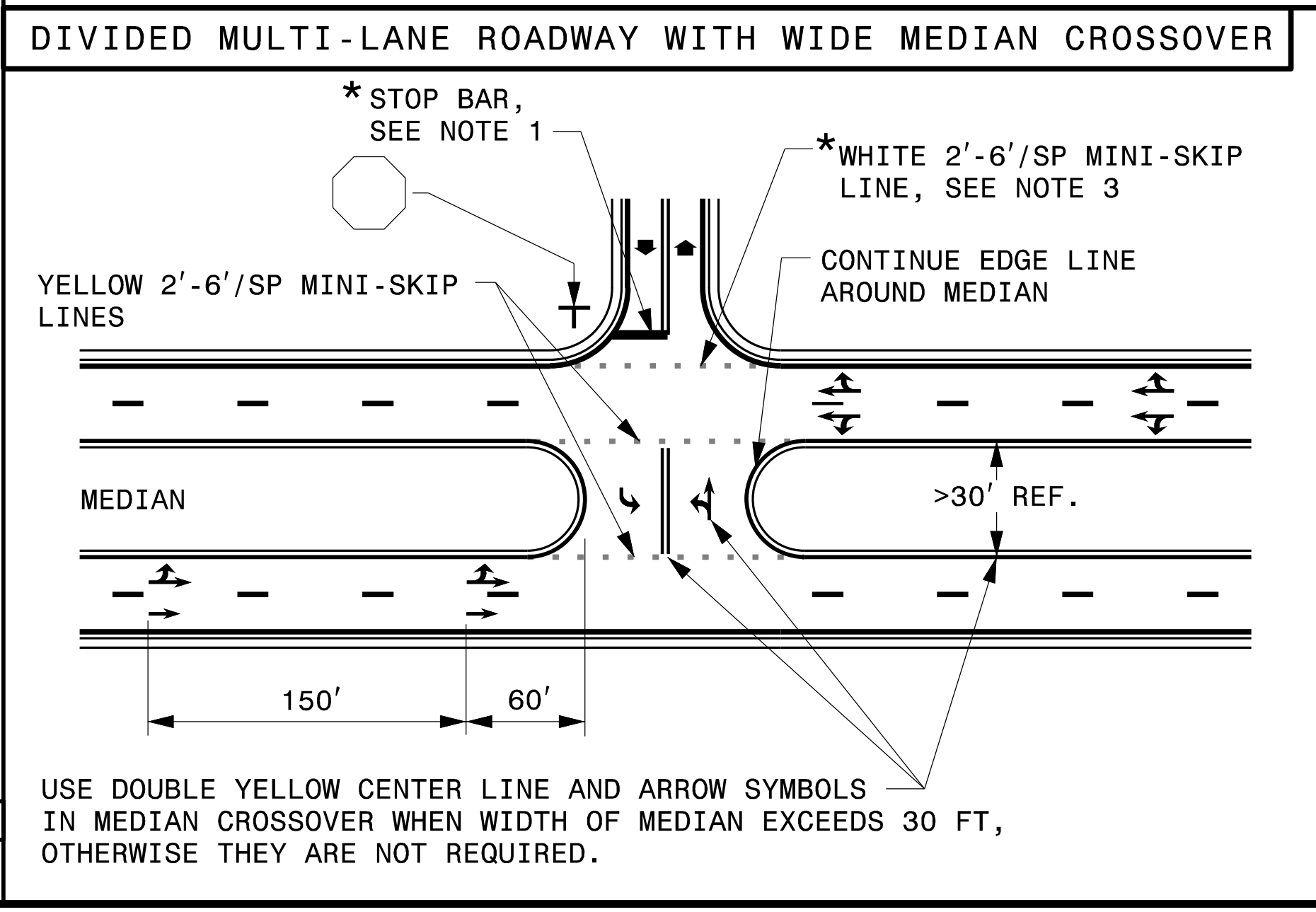
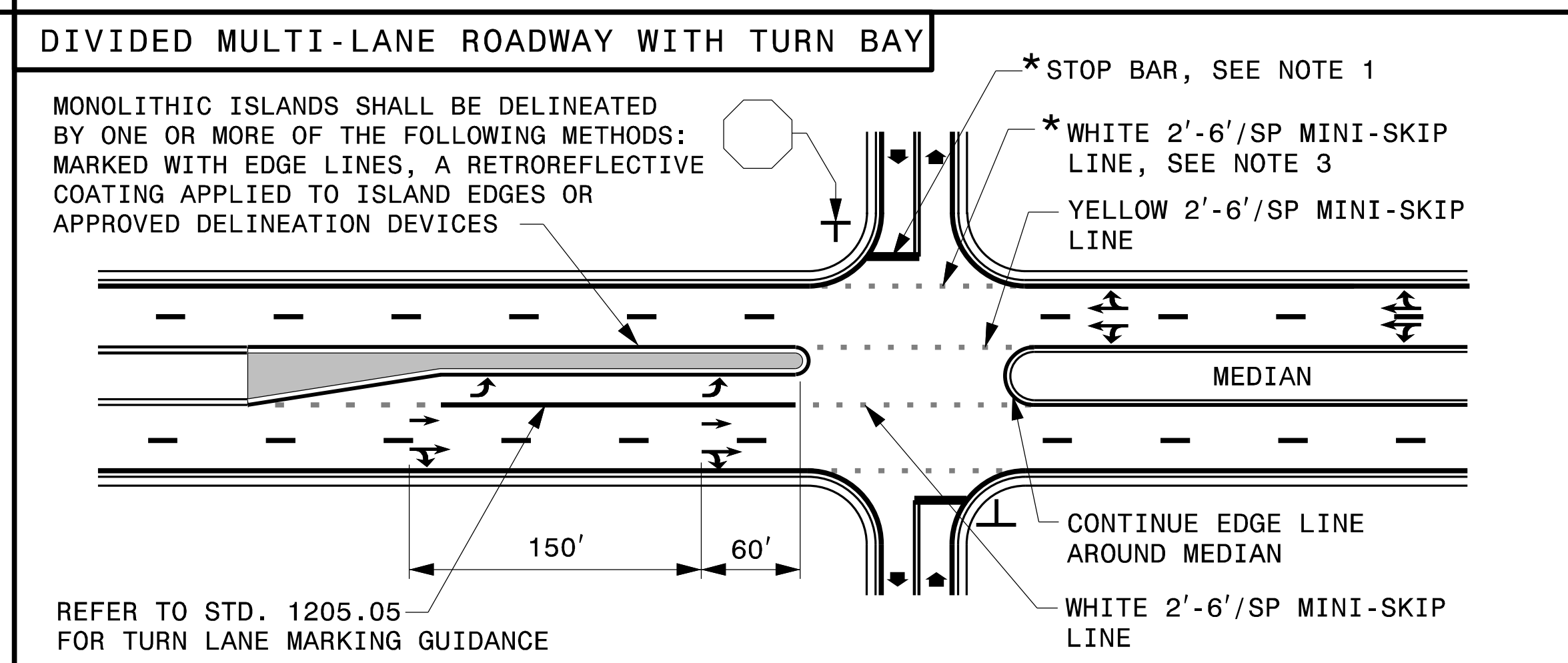
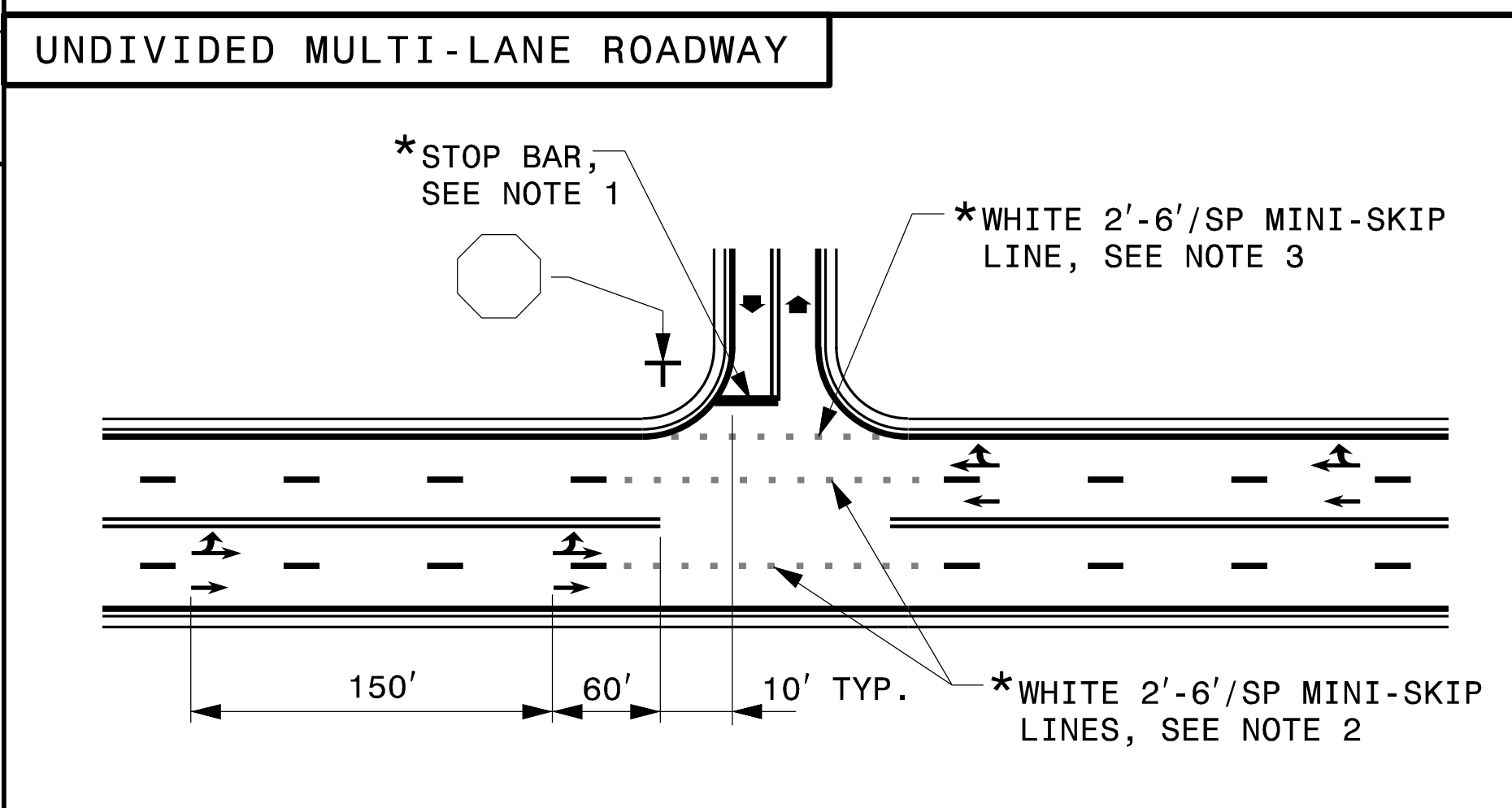
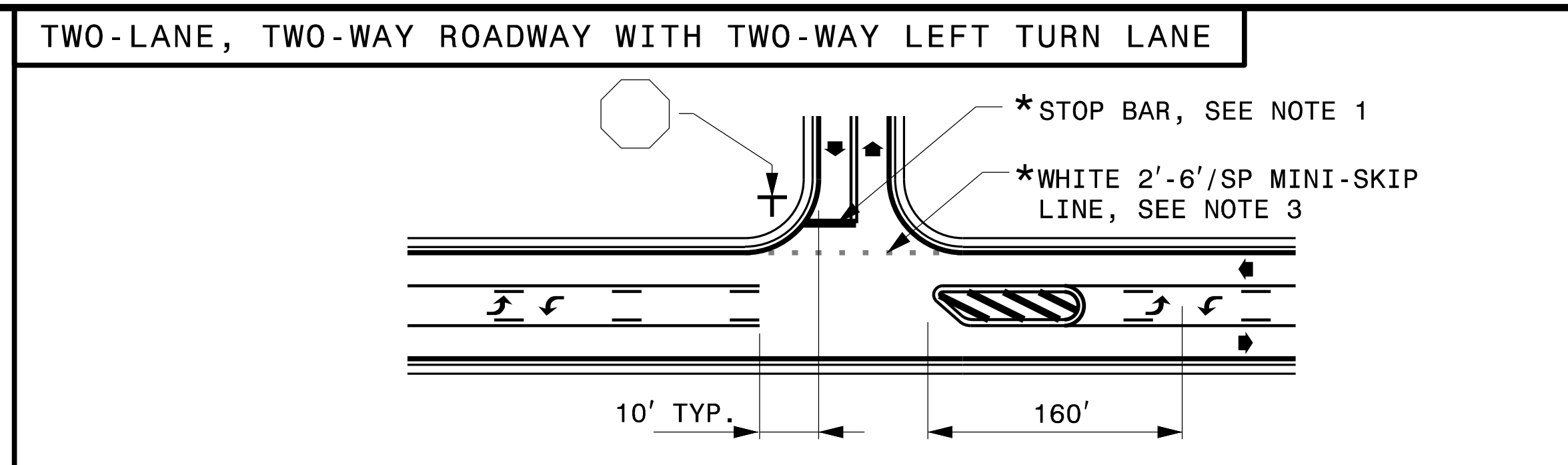
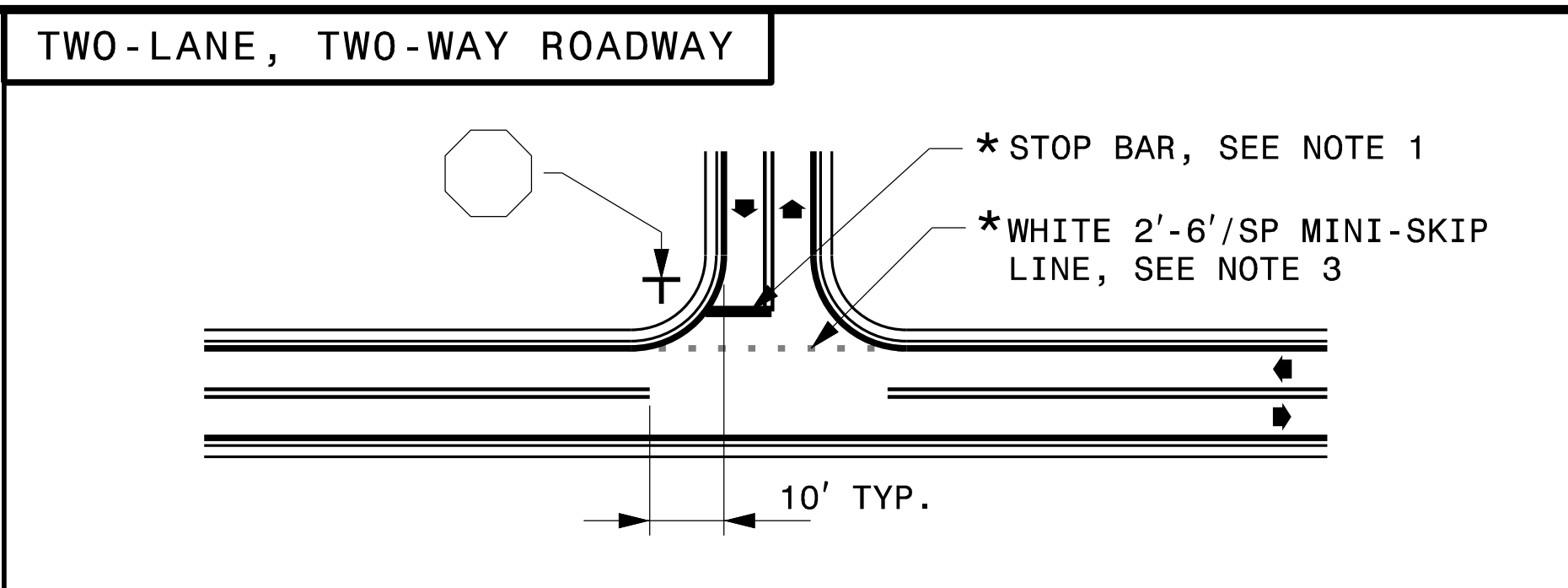
**TRANSPORTATION
OPERATIONS PLAN:
(MANAGEMENT STRATEGY,
GENERAL NOTES, AND
LOCAL NOTES)**

TIP NO. R-5799	SHEET NO. TMP-2A
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APPROVED: <i>Matthew V. Springer</i>	
DATE: 8/13/2019	
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STATE OF NORTH CAROLINA
 DEPT. OF TRANSPORTATION
 DIVISION OF HIGHWAYS
 RALEIGH, N.C.

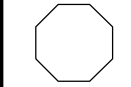
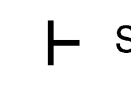
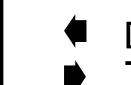

ENGLISH DETAIL DRAWING FOR
PAVEMENT MARKINGS
 INTERSECTIONS

SHEET 2 OF 2
1205D04



GENERAL NOTES:

- 1- PLACEMENT OF STOP BARS AT NON-SIGNALIZED INTERSECTIONS IS OPTIONAL AND USED WHERE IT IS IMPORTANT TO INDICATE THE POINT WHICH VEHICLES ARE REQUIRED TO STOP. PLACE STOP BARS NO LESS THAN 4 FEET AND NO MORE THAN 30 FEET FROM THE NEAREST EDGE OF THE INTERSECTING ROADWAY. USE 10 FEET AS THE TYPICAL SETBACK DISTANCE OR AS DIRECTED BY THE ENGINEER.
- 2- MINI-SKIP LANE LINE EXTENSIONS SHOULD BE USED AT INTERSECTIONS THAT HAVE REDUCED VISIBILITY CONDITIONS SUCH AS OFFSET, SKEWED, OR CURVED ROADWAYS.
- 3- MINI-SKIP EDGE LINE EXTENSIONS MAY BE PLACED THROUGH INTERSECTIONS AND MAJOR DRIVEWAYS.
- 4- REFER TO ROADWAY STANDARD DRAWINGS 1205.01, 1205.02, 1205.05, 1205.08 AND 1205.09 FOR ADDITIONAL PAVEMENT MARKING GUIDANCE.

LEGEND	
	STOP SIGN
	STATIONARY SIGN
	DIRECTION OF TRAFFIC FLOW
	PAVEMENT MARKING SYMBOLS
*	OPTIONAL


SHEET 2 OF 2
1205D04

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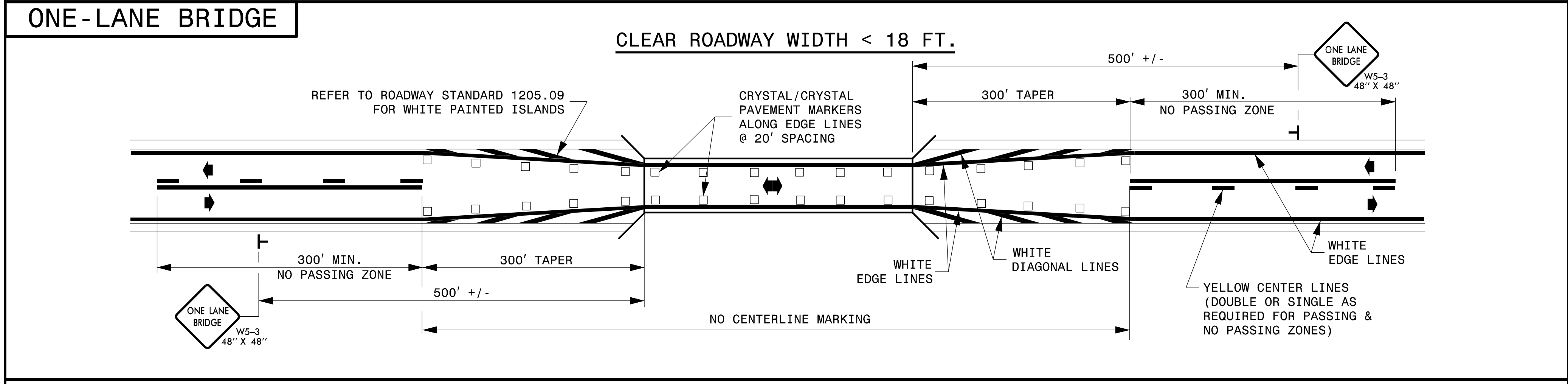
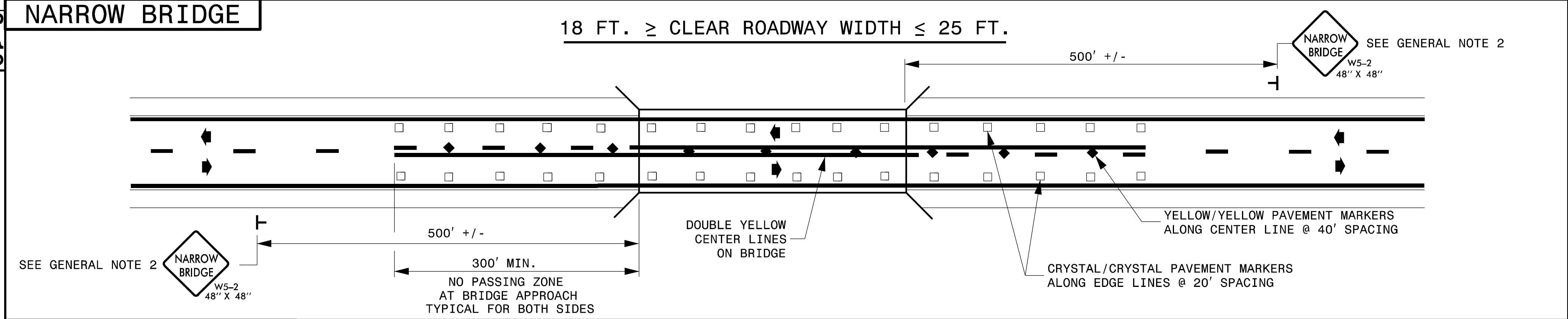
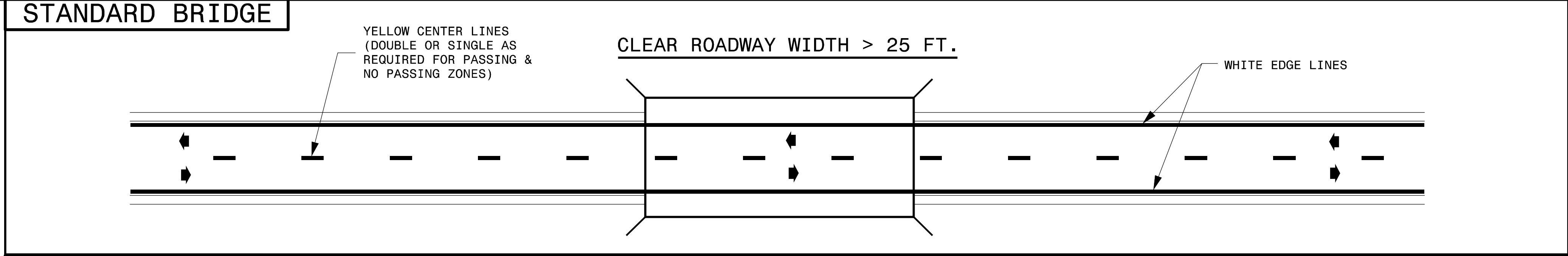
ENGLISH DETAIL DRAWING FOR
PAVEMENT MARKINGS
 INTERSECTIONS

SHEET 2 OF 2
1205D04

REVISED PAVEMENT MARKING ROADWAY STANDARD DRAWING

TIP NO. R-5799	SHEET NO. TMP-2B
DocuSigned by: <i>Matthew V. Springer</i>	
APPROVED: <i>Matthew V. Springer</i>	
DATE: 8/30/2019	
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- GENERAL NOTES:
- 1- NO PASSING ZONES SHOWN ARE MINIMUMS. APPLY MINIMUM PASSING AND STOPPING SIGHT DISTANCES AS DETERMINED BY THE ENGINEER.
 - 2- FOR BRIDGES WITH 18 TO 25 FEET CLEAR ROADWAY WIDTH, SIGNS MUST BE USED WHEN THE APPROACH PAVEMENT WIDTH IS 2 FOOT OR GREATER THAN THE CLEAR ROADWAY WIDTH.

LEGEND	
←	DIRECTION OF TRAFFIC FLOW
◆	YELLOW/YELLOW PAVEMENT MARKER
⊥	STATIONARY SIGN
□	CRYSTAL/CRYSTAL PAVEMENT MARKER

SHEET 1 OF 1
1205D12

SHEET 1 OF 1
1205D12

REVISED PAVEMENT MARKING ROADWAY STANDARD DRAWING

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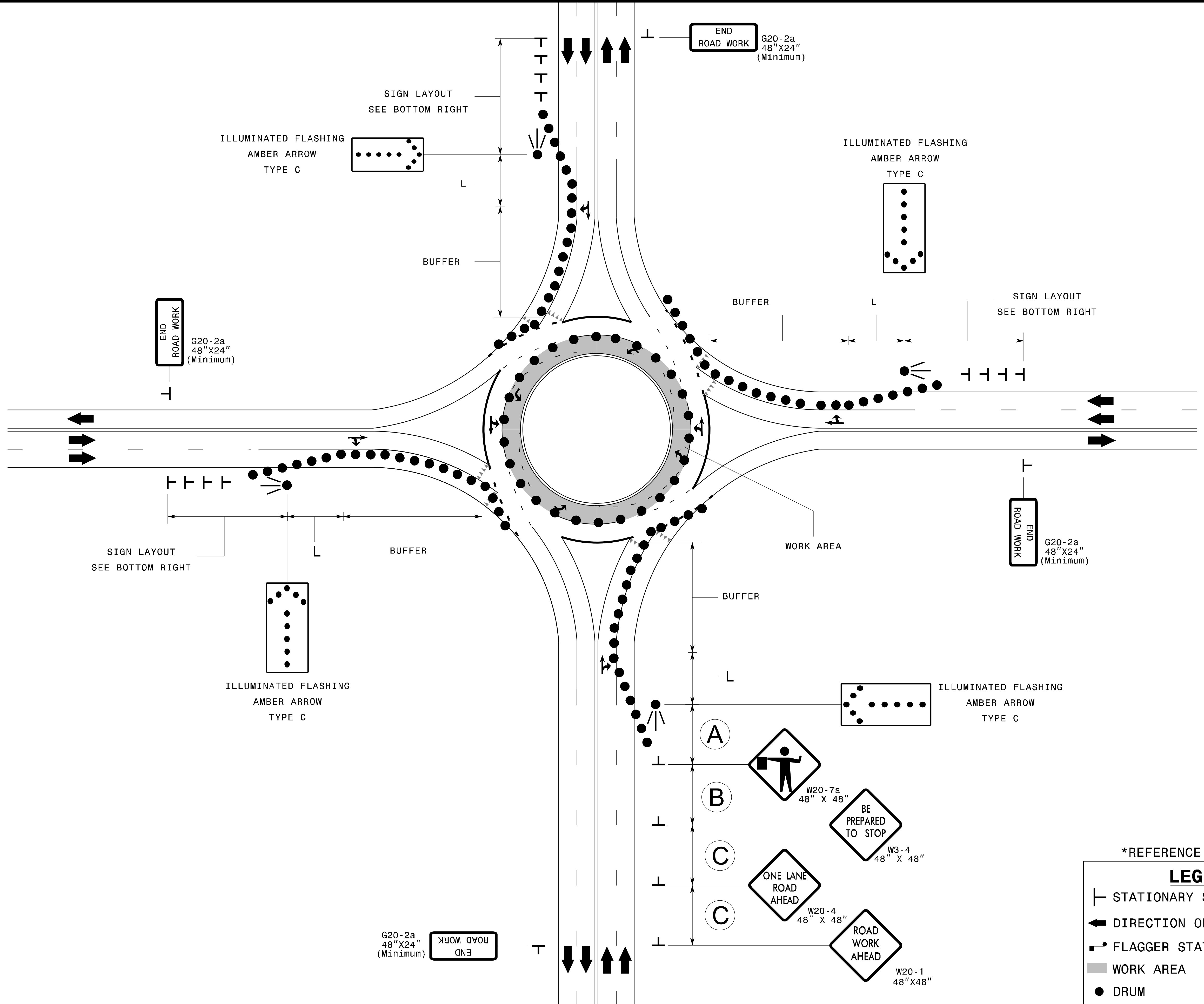
2021

ROADWAY STANDARD DRAWING FOR
TEMPORARY LANE CLOSURES
INSIDE LANE CLOSURE ON TWO-LANE ROUNDABOUT

STATE OF NORTH CAROLINA
DEPT. OF TRANSPORTATION
DIVISION OF HIGHWAYS
RALEIGH, N.C.

2021

ROADWAY STANDARD DRAWING FOR
TEMPORARY LANE CLOSURES
INSIDE LANE CLOSURE ON TWO-LANE ROUNDABOUT



*REFERENCE GENERAL NOTES

LEGEND

- ┃ STATIONARY SIGN
- ➔ DIRECTION OF TRAFFIC FLOW
- FLAGGER STATION
- WORK AREA
- DRUM

GENERAL NOTES

1. EACH ROUNDABOUT IS UNIQUE AND THE TRAFFIC CONTROL MUST BE DEVELOPED TO MEET THE SPECIFIC CONDITIONS OF THE LOCATION AND THE WORK OPERATION. A DETOUR COULD POSSIBLY BETTER SERVE TRAFFIC MOVEMENT AND MUST BE CONSIDERED AS AN ALTERNATIVE TO A FLAGGING OPERATION.
2. PLACE ARROW BOARDS ON THE SHOULDER (PAVED OR UNPAVED). PLACE ARROW BOARDS WITHIN THE TAPER IF SHOULDERS DO NOT EXIST. MEET THE REQUIREMENTS FOR STOPPING SIGHT DISTANCE AT THE ARROW BOARD LOCATION. IF NEEDED, EXTEND LANE CLOSURES AT THE BUFFER SPACE, SUCH THAT STOPPING SIGHT DISTANCE TO THE ARROW BOARD IS MET (REFER TO RSD 1101.11, SHEET 2 OF 4).
3. PLACE DRUMS IN TAPERS AT THE MAXIMUM SPACING EQUAL IN FEET TO THE POSTED SPEED LIMIT. PLACE DRUMS ALONG THE WORK AREA AT THE MAXIMUM SPACING EQUAL IN FEET TO 2 TIMES THE POSTED SPEED LIMIT.
4. REFER TO RSD 1101.11, SHEET 1 & 4, FOR "L" DISTANCE AND SIGN SPACING.
5. INSTALL LANE CLOSURES WITH THE TRAFFIC FLOW, BEGINNING WITH DEVICES ON THE UPSTREAM SIDE OF TRAFFIC. REMOVE LANE CLOSURES AGAINST THE FLOW OF TRAFFIC, BEGINNING WITH DEVICES ON THE DOWNSTREAM SIDE OF TRAFFIC.
6. FLASHING WARNING LIGHTS MAY BE USED TO CALL ATTENTION TO THE ADVANCE WARNING SIGNS IN ACCORDANCE WITH MUTCD (6), STATE OR LOCAL STANDARDS OR GUIDELINES.
7. A PORTABLE CHANGEABLE MESSAGE SIGN (PCMS) SHOULD BE CONSIDERED AS PART OF THE TRAFFIC CONTROL PLAN TO PROVIDE CLEAR GUIDANCE TO MOTORIST ON ALL APPROACHES OF THE ROUNDABOUT, ESPECIALLY APPROACHES THAT MUST REVERSE TRAFFIC FLOW.
8. VEHICLE HAZARD WARNING SIGNALS SHALL NOT BE USED INSTEAD OF THE VEHICLE'S HIGH INTENSITY AMBER ROTATING, FLASHING, OSCILLATING, OR STROBE LIGHTS. VEHICLE HAZARD WARNING SIGNALS CAN BE USED TO SUPPLEMENT HIGH INTENSITY AMBER ROTATING, FLASHING, OSCILLATING, OR STROBE LIGHTS.
9. PERIODIC ADJUSTMENTS TO THE CHANNELIZING DEVICES MAY BE ALLOWED IN AN ACTIVE WORK ZONE TO ACCOMMODATE THE TURNING MOVEMENTS OF TRACTOR TRAILER VEHICLES AND OTHER LARGE VEHICLES.
10. REFER TO RSD 1205.14, SHEET 2 OF 2, FOR PAVEMENT MARKINGS ON ROUNDABOUTS.
11. IN CASES WHERE PAVEMENT MARKINGS ARE NO LONGER APPLICABLE TO THE TRAFFIC PATTERN, CONSIDER REMOVING OR COVERING THE MARKINGS AT THE DISCRETION OF THE ENGINEER.
12. DO NOT INSTALL ADVANCE WARNING SIGNS MORE THAN 3 DAYS PRIOR TO BEGINNING OF WORK UNLESS COVERED.
13. COVER EXISTING SIGNS THAT CONFLICT WITH WORK ZONE TRAFFIC PATTERN DURING ACTIVE WORK HOURS. UNCOVER SIGNS WHENEVER WORK IS NOT TAKING PLACE.
14. PROVIDE PEDESTRIAN ACCOMMODATIONS WHEN CLOSING OFF CROSSWALKS.

STATE OF NORTH CAROLINA
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2021

ROADWAY STANDARD DRAWING FOR
TEMPORARY LANE CLOSURES
 INSIDE LANE CLOSURE ON TWO-LANE ROUNDABOUT

STATE OF NORTH CAROLINA
 DEPT. OF TRANSPORTATION
 DIVISION OF HIGHWAYS
 RALEIGH, N.C.

2021

ROADWAY STANDARD DRAWING FOR
TEMPORARY LANE CLOSURES
 INSIDE LANE CLOSURE ON TWO-LANE ROUNDABOUT

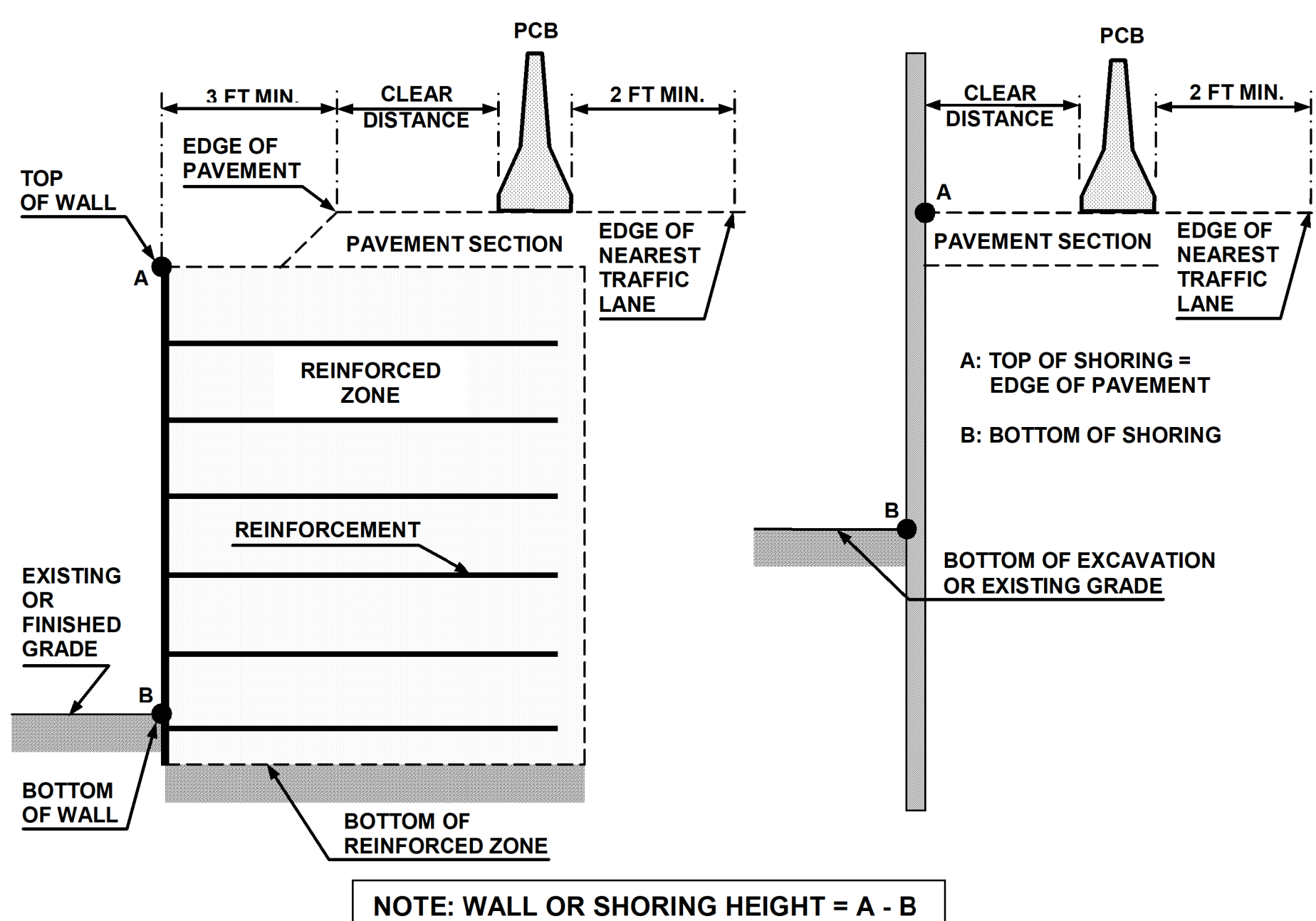


FIGURE A

NOTES

- REFER TO THE TRAFFIC CONTROL PLANS FOR TEMPORARY SHORING LOCATIONS AND NOTES.
- REFER TO THE "TEMPORARY SHORING" PROJECT SPECIAL PROVISION FOR INFORMATION ABOUT TEMPORARY SHORING AND PORTABLE CONCRETE BARRIER (PCB).
- PCB IS REQUIRED IF TEMPORARY SHORING 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 UNIT 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 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.
- PCB REQUIREMENTS FOR TEMPORARY WALLS APPLY TO TEMPORARY MECHANICALLY STABILIZED EARTH (MSE) WALLS AND TEMPORARY SOIL NAIL WALLS.
- 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 AND OR AS 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 THESE MINIMUM REQUIRED DISTANCES ARE 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. BARRIER DEFLECTIONS AND RESULTING MINIMUM REQUIRED CLEAR DISTANCES MIGHT VARY SIGNIFICANTLY FOR LARGER HEAVIER VEHICLES, RUNS OF BARRIER LESS THAN 200 FT IN LENGTH AND WET OR DRY PAVEMENT.

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

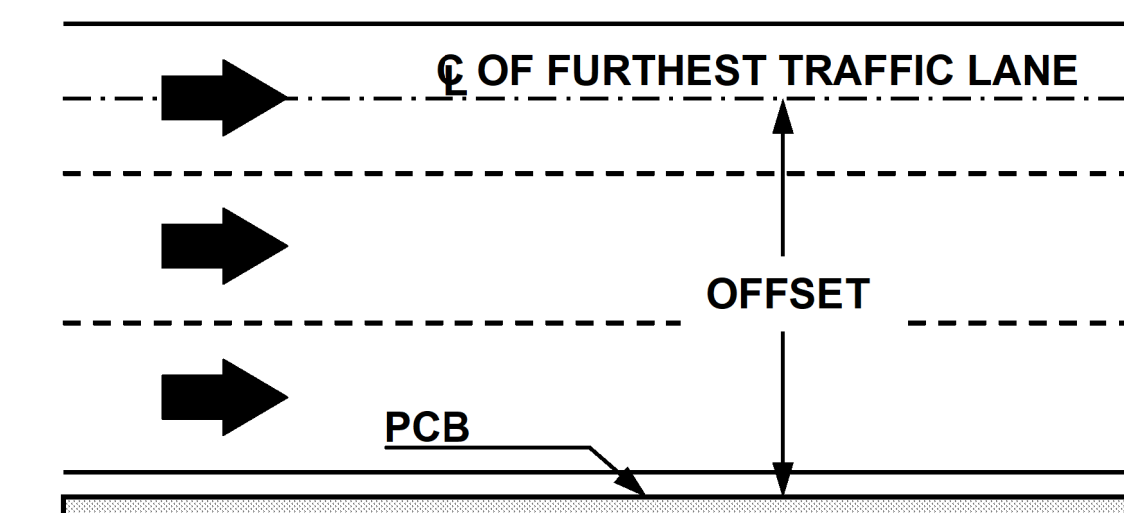
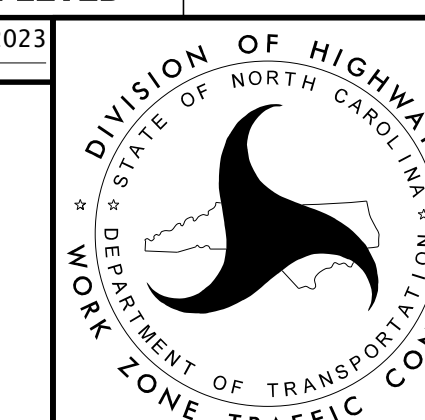
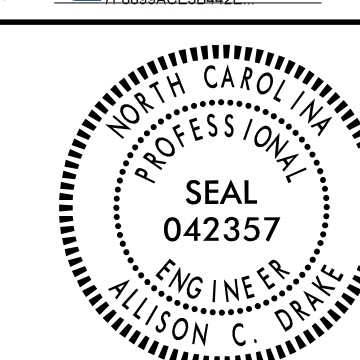


FIGURE B

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UNLESS ALL SIGNATURES COMPLETED

APPROVED: *Allison C. Drake* DATE: 5/15/2023



RS&H 1520 SOUTH BOULEVARD, SUITE 200
CHARLOTTE, NC 28203
NC FIRM LICENSE No: F-0493

PORTABLE CONCRETE BARRIER
AT
TEMPORARY SHORING LOCATIONS

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PROJ. REFERENCE NO.	SHEET NO.
R-5799	TMP-2F



TEMPORARY SHORING NOTES

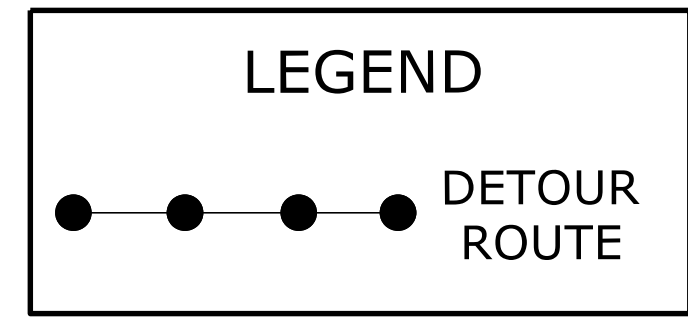
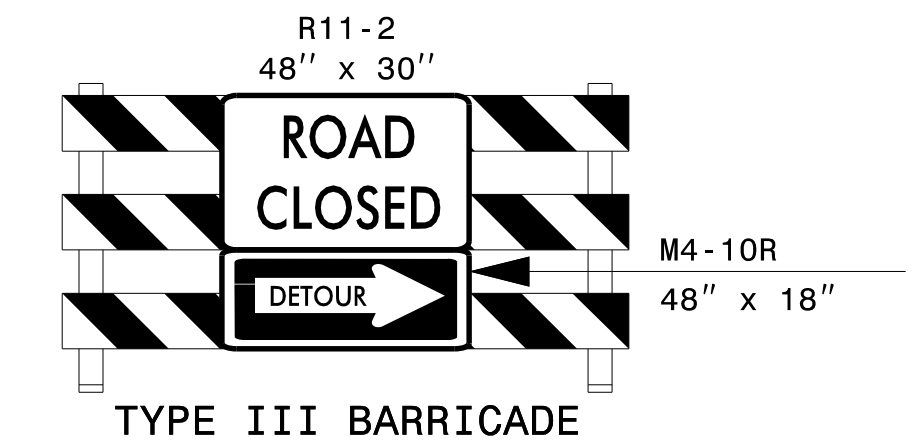
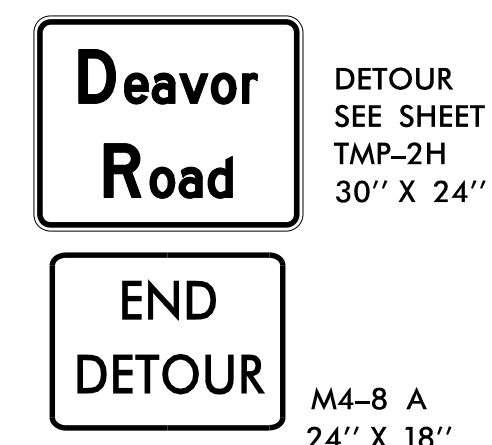
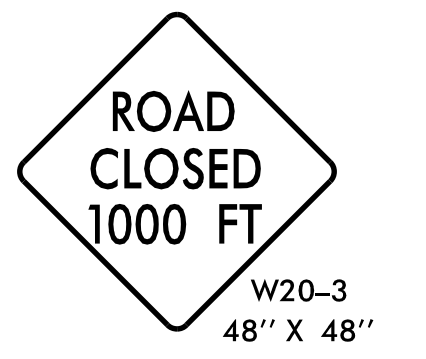
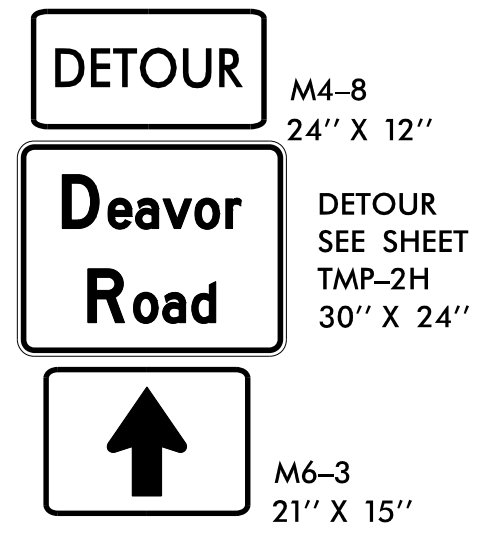
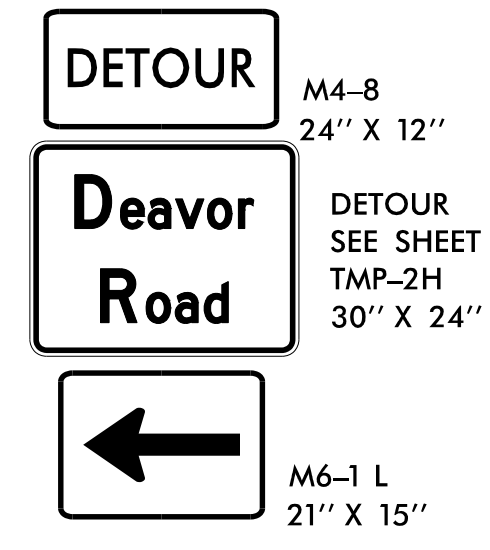
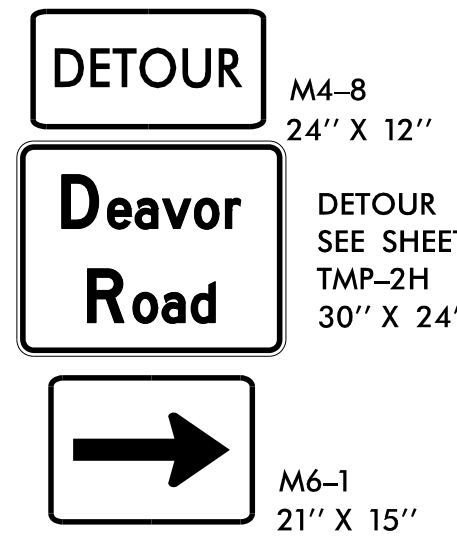
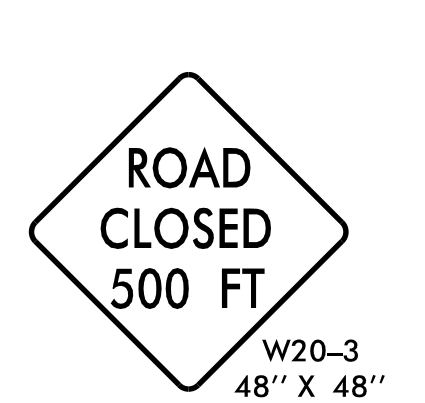
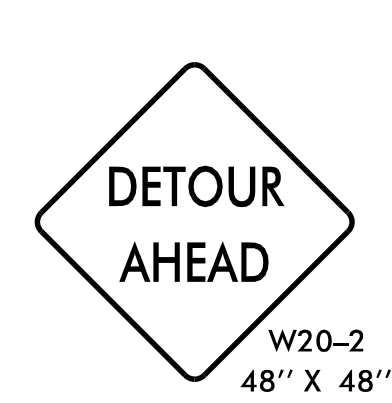
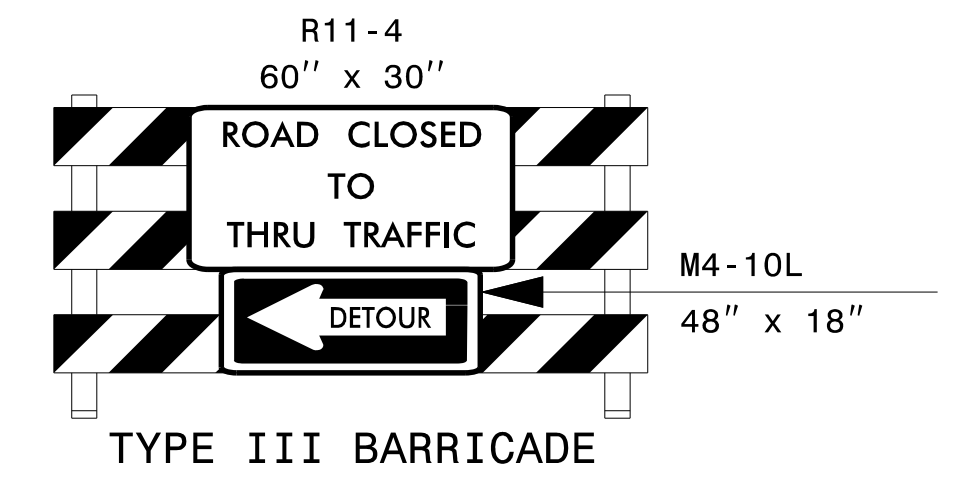
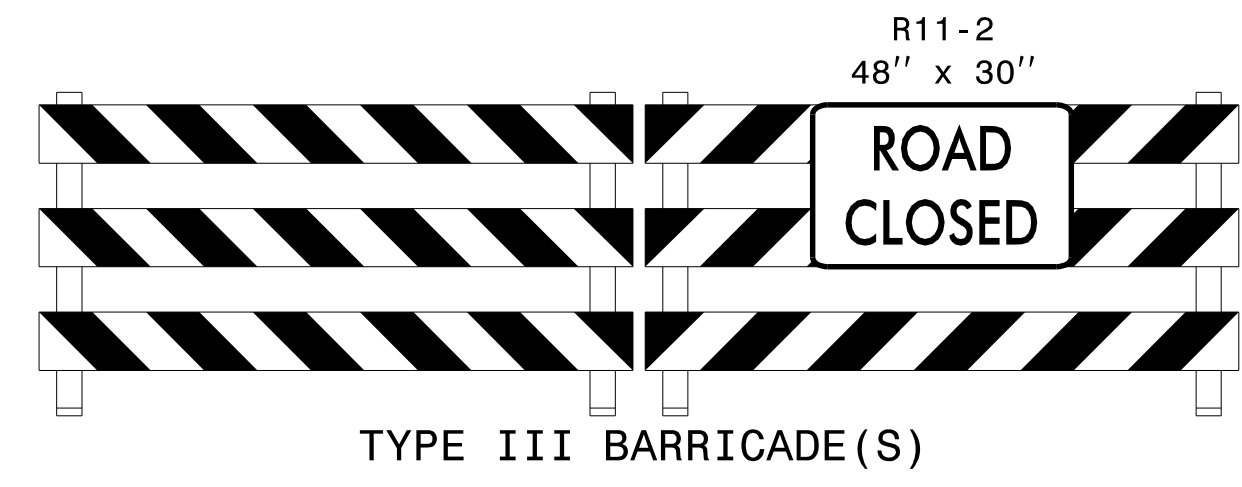
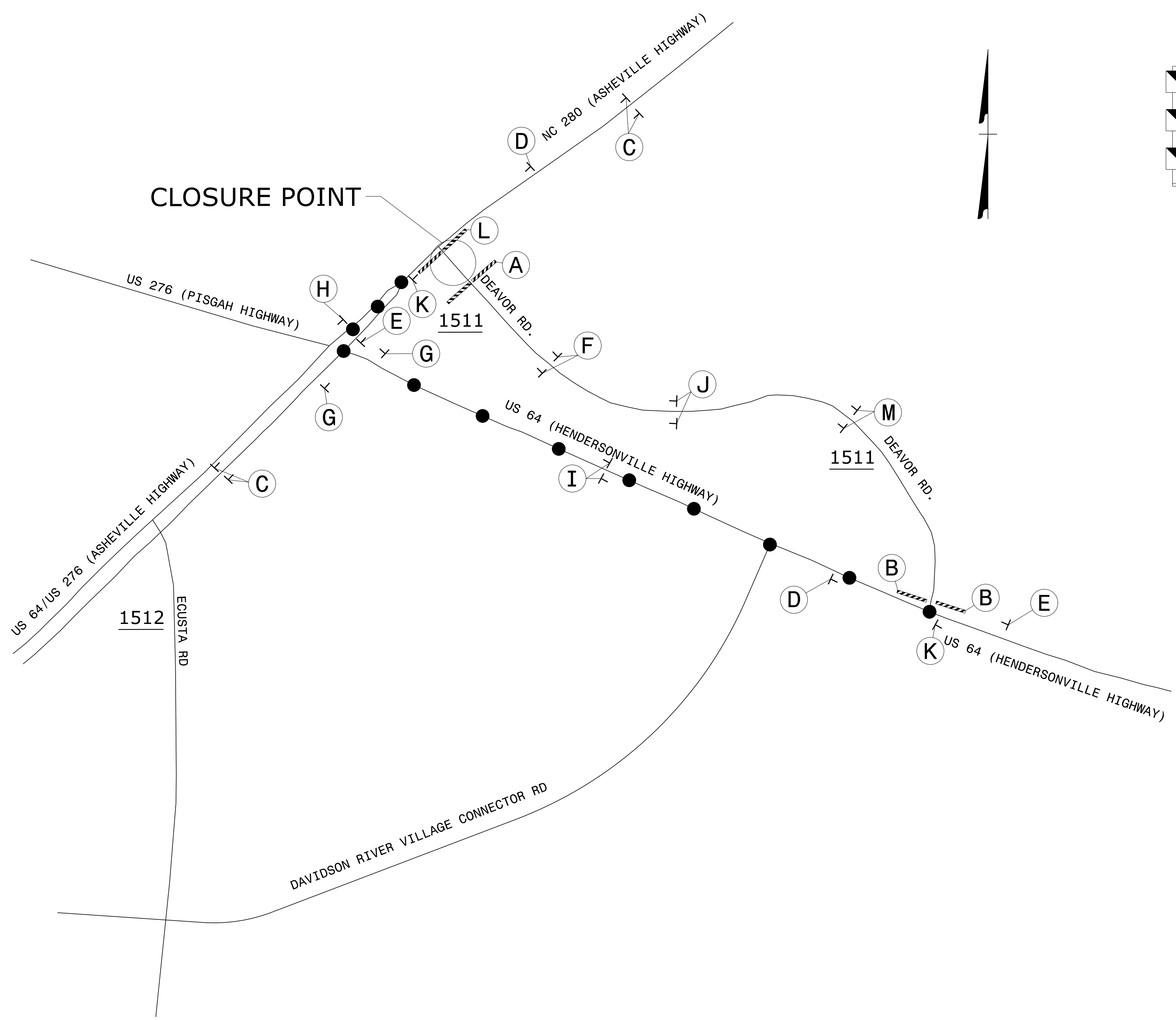
SHORING LOCATION NO. ①
 FOR TEMPORARY SHORING AND POSITIVE PROTECTION FOR TEMPORARY SHORING, SEE PLANS AND TEMPORARY SHORING PROVISION.
 BEFORE BEGINNING TEMPORARY SHORING DESIGN OR CONSTRUCTION, SURVEY EXISTING GROUND ELEVATIONS IN THE VICINITY OF SHORING LOCATIONS TO DETERMINE ACTUAL SHORING HEIGHTS.
 DESIGN TEMPORARY SHORING FROM STATION -Y2- 17+00±, 32.9' LT, TO STATION -Y2- 18+06±, 34.4' LT, FOR THE FOLLOWING ASSUMED SOIL PARAMETERS AND GROUNDWATER ELEVATION:
 UNIT WEIGHT = 120 LB/CF
 FRICTION ANGLE = 30 DEGREES
 COHESION = 0 LB/SF
 GROUNDWATER ELEVATION = 7.5 FT ±
 DO NOT USE A TEMPORARY WALL FOR TEMPORARY SHORING FROM STATION -Y2- 17+00±, 32.9' LT, TO STATION -Y2- 18+06±, 34.4' LT.
 IT MAY BE PREFERRED TO USE A TEMPORARY SOIL NAIL WALL FOR TEMPORARY SHORING FROM STATION -Y2- STA. 17+00 +/-, 32.9' LT, TO STATION -Y2- STA. 18+06 +/-, 34.4' LT. FOR TEMPORARY SOIL NAIL WALLS, SEE TEMPORARY SOIL NAIL WALLS PROVISION.

SHORING LOCATION NO. ②
 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 -Y2- 17+00±, 36.2' RT, TO STATION -Y2- 18+00±, 34.8' RT, FOR THE FOLLOWING ASSUMED SOIL PARAMETERS AND GROUNDWATER ELEVATION:
 UNIT WEIGHT = 120 LB/CF
 FRICTION ANGLE = 30 DEGREES
 COHESION = 0 LB/SF
 GROUNDWATER ELEVATION = 7.5 FT ±
 DO NOT USE A TEMPORARY WALL FOR TEMPORARY SHORING FROM STATION -Y2- 17+00±, 36.2' RT, TO STATION -Y2- 18+00±, 34.8' RT.
 IT MAY BE PREFERRED TO USE A TEMPORARY SOIL NAIL WALL FOR TEMPORARY SHORING FROM STATION -Y2- STA. 17+00 +/-, 36.2' RT, TO STATION -Y2- STA. 18+00 +/-, 34.8' RT. FOR TEMPORARY SOIL NAIL WALLS, SEE TEMPORARY SOIL NAIL WALLS PROVISION.

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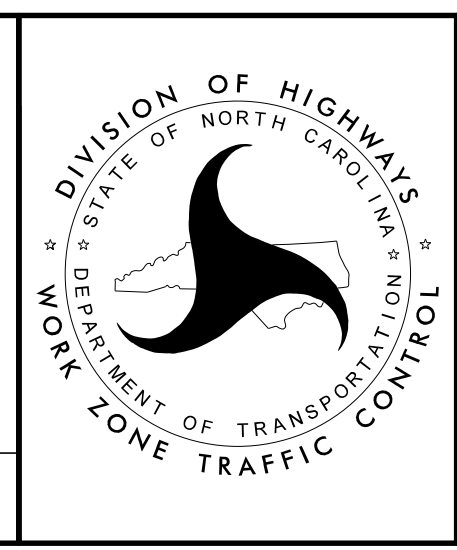
RS&H 1520 SOUTH BOULEVARD, SUITE 200
 CHARLOTTE, NC 28203
 NC FIRM LICENSE No: F-0493

DocuSigned by: APPROVED: <i>Allison C. Drake</i> <small>32890AC658142E</small> DATE: 6/15/2023			<h3>TEMPORARY SHORING NOTES</h3>
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED			



APPROVED: *Allison C. Drake*
 DATE: 6/15/2023

Seal of Allison C. Drake, Professional Engineer, No. 042357, State of North Carolina.



**PHASE IV AND PHASE V
 DETOUR ROUTE**

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 CHARLOTTE, NC 28203
 NC FIRM LICENSE No: F-0493

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6/6/2023
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PHASING NOTES

NOTE:

'RSD' REFERS TO NCDOT ROADWAY STANDARD DRAWINGS.

COMPLETE ANY PROPOSED OR TEMPORARY WIDENING IN SUCH A MATTER THAT PONDING OF WATER WILL NOT OCCUR IN THE TRAVEL LANE.

ALL PROPOSED ASPHALT ROADWAY CONSTRUCTION IS UP TO BUT NOT INCLUDING THE FINAL LAYER OF SURFACE COURSE UNLESS OTHERWISE NOTED.

PHASE I

STEP 1:

USING RSD 1101.01 (SHEETS 2 AND 3 OF 3) PLACE ALL ADVANCE WARNING SIGNS.

STEP 2:

USING A TRAFFIC SHIFT AND RSD 1101.02 (SHEETS 2 AND 3 OF 14), RSD 1101.04, SHORT TERM LANE CLOSURES, INSTALL POSITIVE PROTECTION, TEMPORARY DRAINAGE, TEMPORARY PAVEMENT, AND TEMPORARY SHORING (SEE TMP-2F), AND CONSTRUCT WEDGING THEN WIDENING OF THE FOLLOWING (SEE SHEETS TMP-4 AND TMP-5):

- Y2- (US 64 HENDERSONVILLE HWY) LT STA 11+99± TO -Y2- LT STA 18+56±
- Y2- LT STA 19+29± TO -Y2- LT STA 27+30±
- Y2- LT STA 19+06± (TEMPORARY DRIVEWAY)
- Y2- RT STA 12+25± TO -Y2- RT STA 15+19±
- Y2- RT STA 16+62± TO -Y2- RT STA 27+14±

COMPLETE CULVERT CONSTRUCTION, THEN FINISH CURB AND GUTTER AT -Y2- LT STA 18+56± TO -Y2- LT STA 19+29±, AND -Y2- RT STA 15+19± TO -Y2- RT STA 16+62±, AND REMOVE TEMPORARY DRIVEWAY AND TEMPORARY PAVEMENT.

PHASE II

STEP 1:

USE RSD 1101.02 (SHEETS 1 AND 2 OF 14), RSD 1101.04, SHORT TERM LANE CLOSURES, RIGHT LANE CLOSURE AT -L- (US 64/US 276/NC 280 ASHEVILLE HWY) LT STA. 14+47±, WEDGING, A TEMPORARY SIGNAL AT -Y1- (ECUSTA RD), AND A PEDESTRIAN DETOUR ALONG -Y1- LT, CONSTRUCT THE FOLLOWING (SEE SHEET TMP-6):

- L- STA 9+33± TO -L- STA 13+42±
- L- STA 12+95± LT TO -L- STA 13+55± LT (SIDEWALK, CURB AND GUTTER)
- L- STA 13+90± LT TO -L- STA 14+31± LT (SIDEWALK, CURB AND GUTTER)
- L- STA 13+08± RT TO -L- STA 13+56± RT (PEDESTRIAN REFUGE)
- Y1- STA 10+49± TO -Y1- STA 11+31± (EXIST. ISLAND REMOVAL)
- Y1- STA 11+10± RT TO -Y1- STA 16+61± RT WEDGING AND WIDENING

PHASE II:

STEP 2:

USING RSD 1101.02 (SHEETS 1 AND 2 OF 14), RSD 1101.04, LANE CLOSURES, WEDGING, A TEMPORARY SIGNAL AT -Y1- (ECUSTA RD), AND A PEDESTRIAN DETOUR ALONG -Y1- RT, CONSTRUCT THE FOLLOWING (SEE SHEET TMP-7):

- L- (US 64/US 276/NC 280 ASHEVILLE HWY) STA 14+29± LT TO -L- STA 14+89± LT (SIDEWALK, CURB AND GUTTER)
- L- STA 14+25± TO -L- STA 14+49± (EXIST. ISLAND REMOVAL)
- Y1- (ECUSTA RD) STA 10+82± TO -L- STA 14+74± (PEDESTRIAN REFUGE)
- L- STA 15+15± TO -Y1- STA 16+35± (LT)

PHASE III:

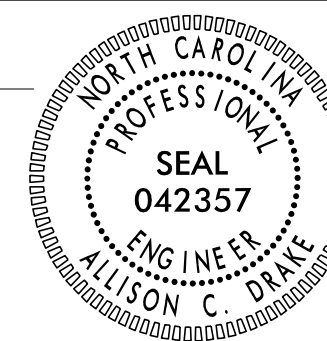
WITH TRAFFIC IN EXISTING PATTERN, USE RSD 1101.02 (SHEETS 1 AND 3 OF 14), SHORT TERM LANE CLOSURES, AND A TEMPORARY SIGNAL AT -Y1- (ECUSTA RD), REMOVE EXISTING MONOLITHIC ISLANDS ALONG -L- (US 276/US 64/NC 280 ASHEVILLE HWY), -Y2- (US 64 HENDERSONVILLE HWY), AND -Y3- (US 276 PISGAH HWY), AND BEGIN WEDGING AND MEDIAN CONSTRUCTION UP TO, BUT NOT INCLUDING, THE FINAL LAYER OF PAVEMENT (SEE SHEETS TMP-8 THRU TMP-10):

- L- STA 7+00± TO -L- STA 12+88±
- L- STA 14+50± TO -L- STA 18+06±
- L- STA 19+24± TO -L- STA 22+65±
- L- STA 23+82± TO -L- STA 28+27±
- Y2- STA 10+14± TO -Y2- STA 11+25±
- Y2- STA 10+79± TO -Y2- STA 11+06±
- Y3- STA 10+50± TO -Y3- STA 11+69±
- Y3- STA 10+14± TO -Y3- STA 10+76±
- Y3- STA 11+13 ± TO -Y3- STA 11+85±

5/5/2023
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User:McLaughl

RS&H 1520 SOUTH BOULEVARD, SUITE 200
CHARLOTTE, NC 28203
NC FIRM LICENSE No: F-0493

DocuSigned by:
Allison C. Drake
APPROVED: 375899AC258442E
DATE: 6/15/2023



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UNLESS ALL SIGNATURES COMPLETED**



PHASING NOTES

PHASING NOTES CONTINUED

PHASE IV

USING RSD 1101.03 (SHEETS 1 AND 2 OF 9) AND AN OFF-SITE DETOUR (SEE SHEET TMP-2G), BEGIN CONSTRUCTION OF -Y4- (DEAVOR RD) (SEE SHEET TMP-13).

USING RSD 1101.02 (SHEETS 1 AND 3 OF 14), PLACE TEMPORARY PAVEMENT MARKINGS. USING TEMPORARY SIGNALS AT -Y1-, -Y2-/-Y3-, AND -Y4-, SHIFT TRAFFIC INTO NEW PATTERN ALONG -L- (US 276/US 64/NC 280 ASHEVILLE HWY). THEN CONSTRUCT WIDENING AND WEDGING OF THE FOLLOWING (SEE SHEET TMP-11 THRU TMP-13):

- L- STA 7+00± (RT) TO -L- STA 12+91± (RT)
- L- STA 14+99± (RT) TO -L- STA 18+21± (RT)
- L- STA 19+55± (RT) TO -Y2- (US 64 HENDERSONVILLE HWY) STA 11+73± (RT)
- Y2- STA 11+99± (LT) TO -L- STA 32+66± (RT)

PHASE V

INTERMEDIATE CONTRACT TIME (ICT): COMPLETE THE WORK REQUIRED IN PHASE V, STEP 1 IN FOURTEEN (14) CONSECUTIVE DAYS. SEE INTERMEDIATE CONTRACT TIME AND LIQUIDATED DAMAGES.

STEP 1:

USING A LONG TERM LANE CLOSURE, A TEMPORARY SIGNAL, AND RSD 1101.02 (SHEET 3 OF 14) CONSTRUCT -L- (US 64/US 276/NC 280 ASHEVILLE HWY) STA 7+00± (LT) TO -L- STA 12+95± (LT) (SEE SHEET TMP-14).

STEP 2:

WITH THE OFF-SITE DETOUR STILL IN PLACE (SEE SHEET TMP-2G), WORKING IN A CONTINUOUS MANNER, AND USING RSD 1101.02 (SHEETS 1 AND 3 OF 14), INSTALL TEMPORARY SIGNAL AT FOREST GATE CIR (BAG UNTIL READY TO SHIFT), PLACE TEMPORARY PAVEMENT MARKINGS, AND REMOVE EXISTING BOLLARDS AT FOREST GATE CIR. REMOVE SIGNAL AT -Y5- (FOREST GATE DR). CLOSE ROADWAY AND SHIFT TRAFFIC INTO TEMP. PATTERN ALONG -L- (US 64/US 276/NC 280 ASHEVILLE HWY) AND USE SHORT TERM LANE CLOSURES TO CONSTRUCT THE FOLLOWING (SEE SHEETS TMP-14 THRU TMP-17):

- L- STA 14+89± (LT) TO -L- STA 17+77± (LT)
- L- STA 19+10± (LT) TO -Y3- (US 276 PISGAH HWY) TIE-IN (LT)
- Y3- STA 17+20± (LT) TO -L- TIE-IN (LT)
- Y3- STA 17+20± (RT) TO -L- TIE-IN (LT)
- Y3- TIE-IN (LT) TO -L- STA 32+66± (LT)
- L- TIE-IN (LT) TO -Y5- STA. 12+75±

STEP 3:

USING RSD 1101.03 (SHEETS 1 AND 2 OF 9) AND THE OFF-SITE DETOUR (SEE SHEET TMP-2G), CONTINUE CONSTRUCTION OF -Y4- (DEAVOR RD) FROM STA 10+25± TO -Y4- STA 12+85± (SEE SHEET TMP-16).

PHASE VI

INTERMEDIATE CONTRACT TIME (ICT): COMPLETE THE WORK REQUIRED IN PHASE VI, STEP 1 C IN 5 CONSECUTIVE DAYS. SEE INTERMEDIATE CONTRACT TIME AND LIQUIDATED DAMAGES.

STEP 1:

- A) USING RSD 1101.02 (SHEET 3 OF 14), A TEMPORARY SIGNAL AT -Y1- (ECUSTA RD), AND A PEDESTRIAN DETOUR, CONSTRUCT THE PEDESTRIAN REFUGE FROM -L- (US 64/US 276/NC 280 ASHEVILLE HWY) STA 12+88± TO -L- STA 13+38± (SEE SHEET TMP-18).
- B) REMOVE TEMP. SIGNALS AT -Y2-(US 64 HENERSONVILLE HWY)/-Y3- (US 276 PISGAH HWY), AND -Y4- (DEAVOR RD).
- C) USE RSD 1101.02 (SHEETS 17 AND 18 OF 20) TO SWITCH TRAFFIC TO ONE LANE ROUNDABOUT CONTROL WITH TEMPORARY CHANNELIZING DRUMS DEFINING ISLANDS AND PLACE PAVEMENT MARKINGS. ADJUST CHANNELIZING DRUMS AROUND INTERIOR CIRCLE AS NECESSARY TO ALLOW TRUCKS TO MAKE LEFT TURNS (SEE SHEETS TMP-19 THRU TMP-20).

STEP 2:

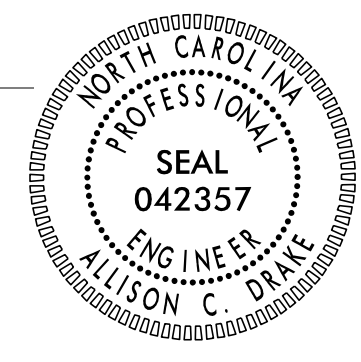

USING RSD 1101.02 (SHEET 3 OF 14), SHORT TERM LANE CLOSURES, TEMP. SIGNAL, AND A PEDESTRIAN DETOUR, CONSTRUCT THE PEDESTRIAN REFUGE ON -L- (US 64/US 276/NC 280 ASHEVILLE HWY) FROM STA 14+33± TO -L- STA 15+50± (SEE SHEET TMP-21).

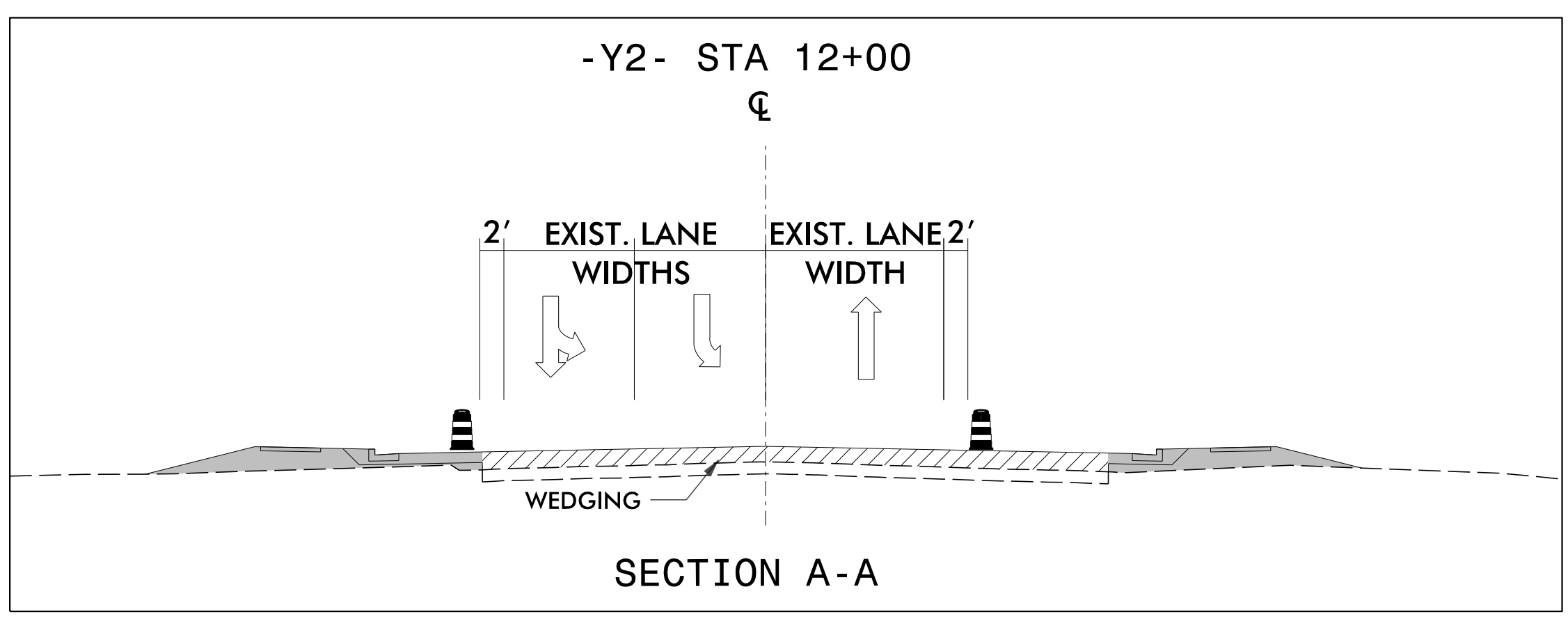
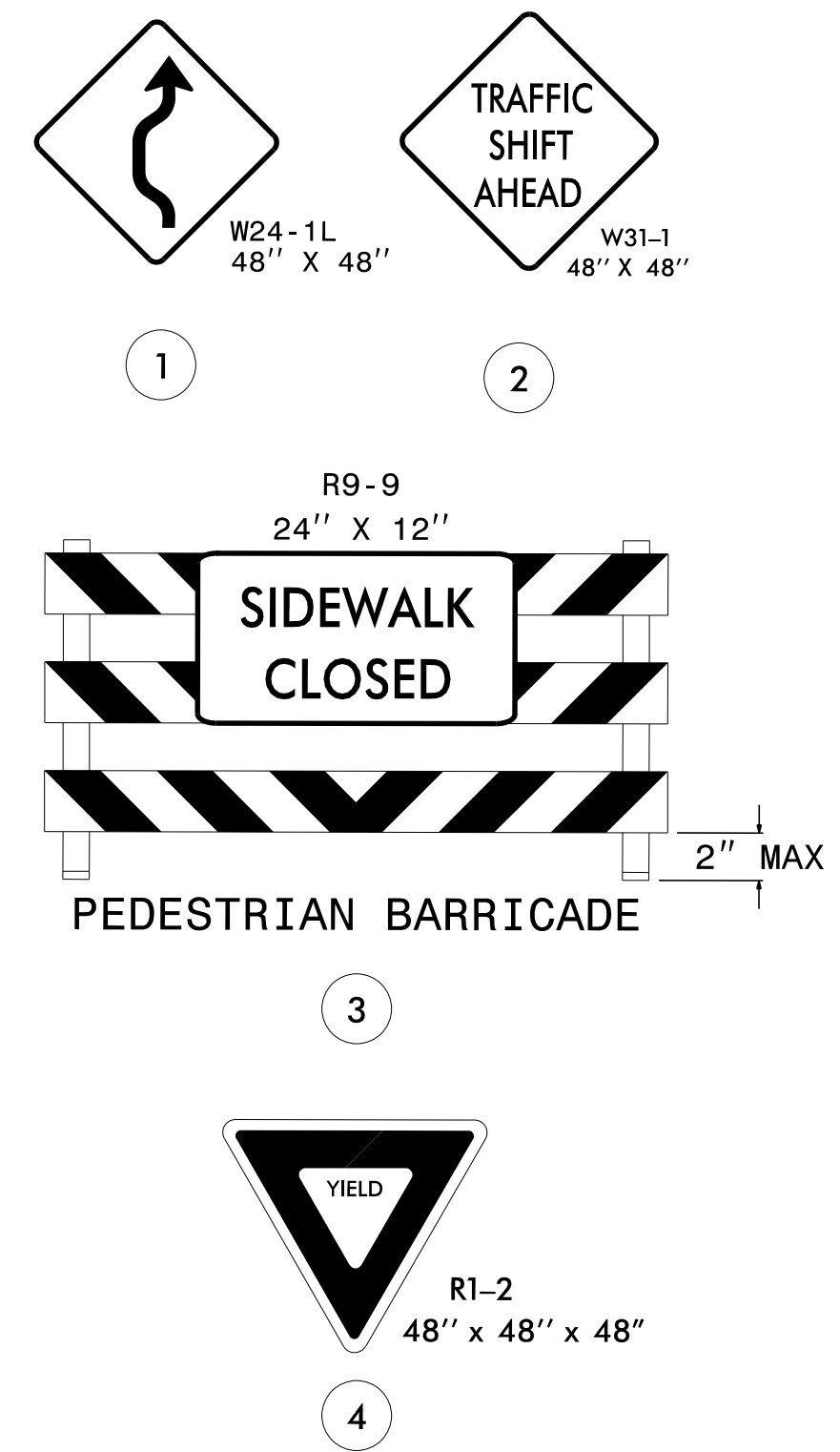
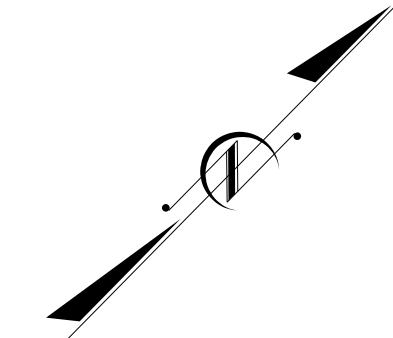
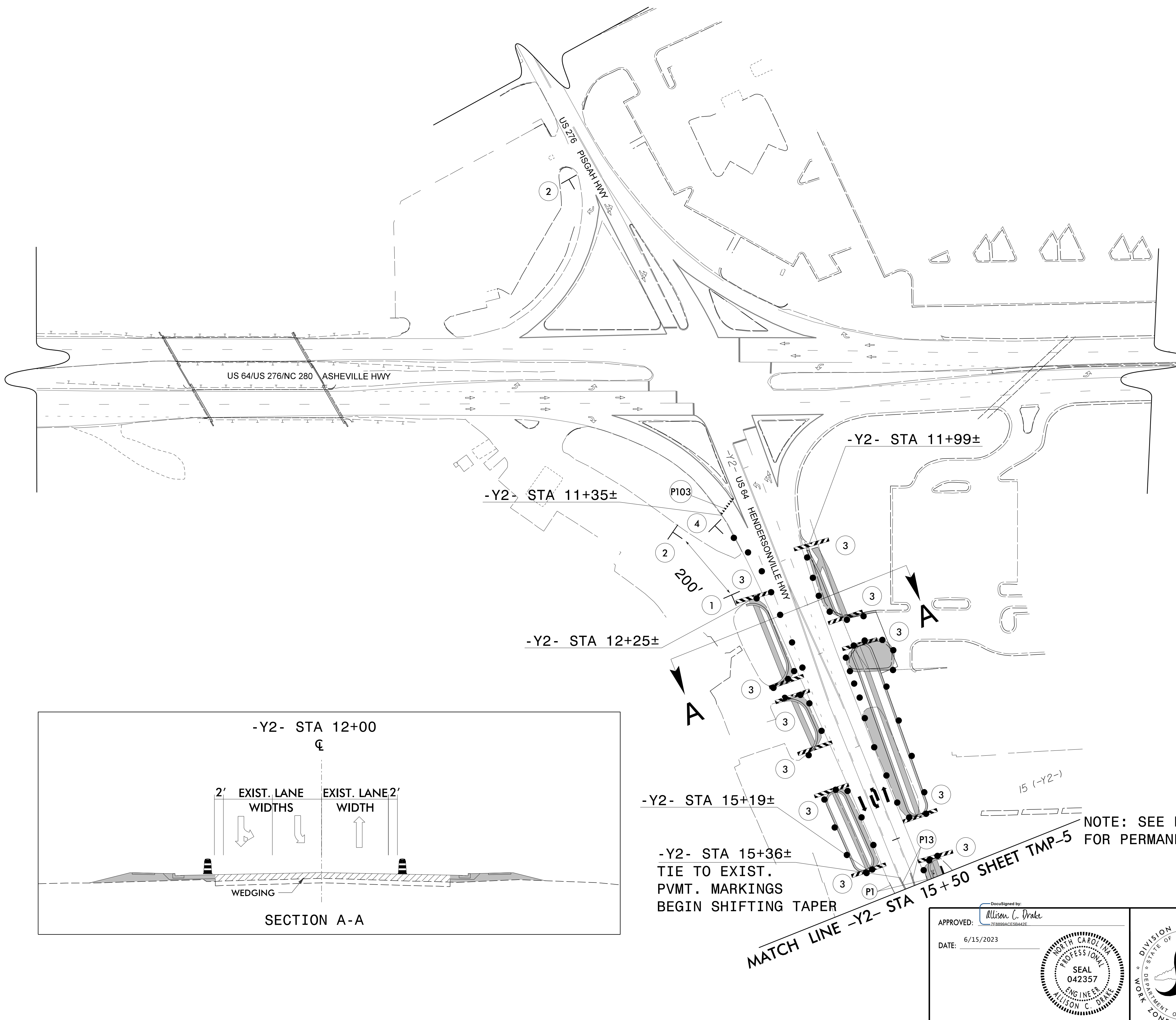
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STEP 3:

USING RSD 1101.02 (SHEET 3 OF 14) AND RSD 1101.02 (SHEETS 17 AND 18 OF 20) AND SHORT TERM LANE CLOSURES, PLACE FINAL LAYER OF SURFACE COURSE, FINAL PAVEMENT MARKINGS AND MARKERS, REMOVE TRAFFIC CONTROL DEVICES, AND OPEN TRAFFIC TO FINAL PATTERN.

7/11/2023
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User:McLaughlin

<p>APPROVED: <i>Allison C. Drake</i></p> <p>DATE: 7/12/2023</p> <div style="text-align: center;">  </div>	<div style="text-align: center;">  </div>	<h2 style="margin: 0;">PHASING NOTES</h2>
<p>DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED</p>		



NOTE: SEE PROPOSED PAVEMENT MARKING PLANS FOR PERMANENT MARKING LOCATIONS AND DETAIL.

RS&H 1520 SOUTH BOULEVARD, SUITE 200
CHARLOTTE, NC 28203
NC FIRM LICENSE No: F-0493

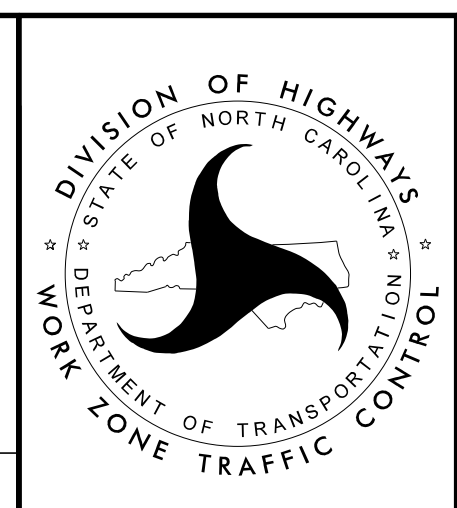
MATCH LINE -Y2- STA 15+50 SHEET TMP-5

-Y2- STA 15+36±
TIE TO EXIST.
PVMT. MARKINGS
BEGIN SHIFTING TAPER

APPROVED: *Allison C. Drake*
DATE: 6/15/2023

DocuSigned by:
Allison C. Drake
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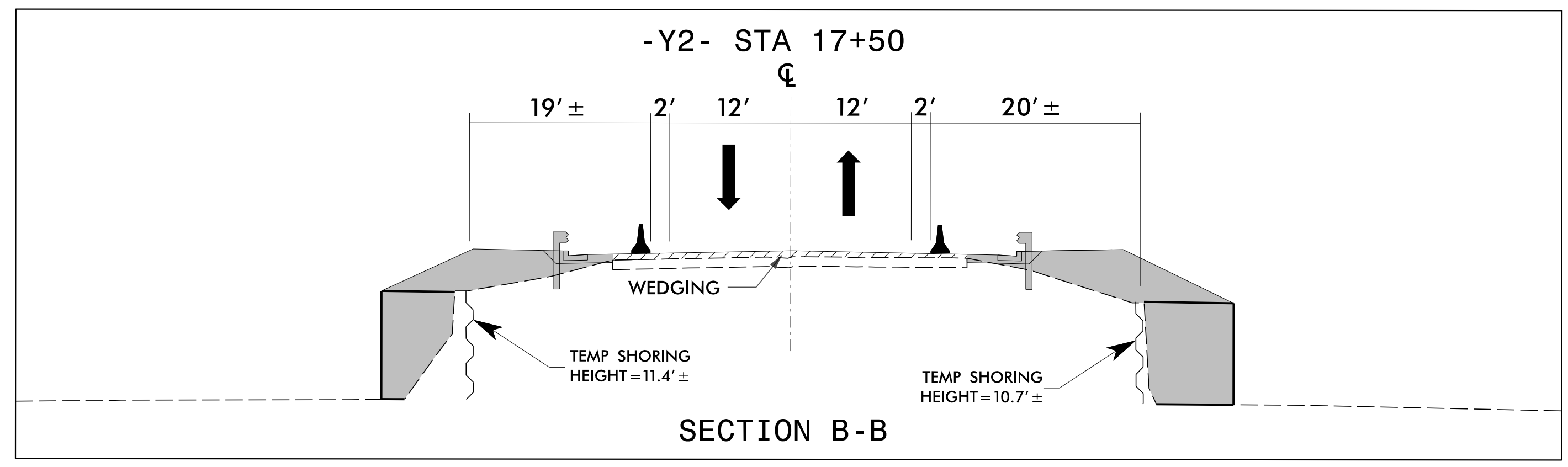
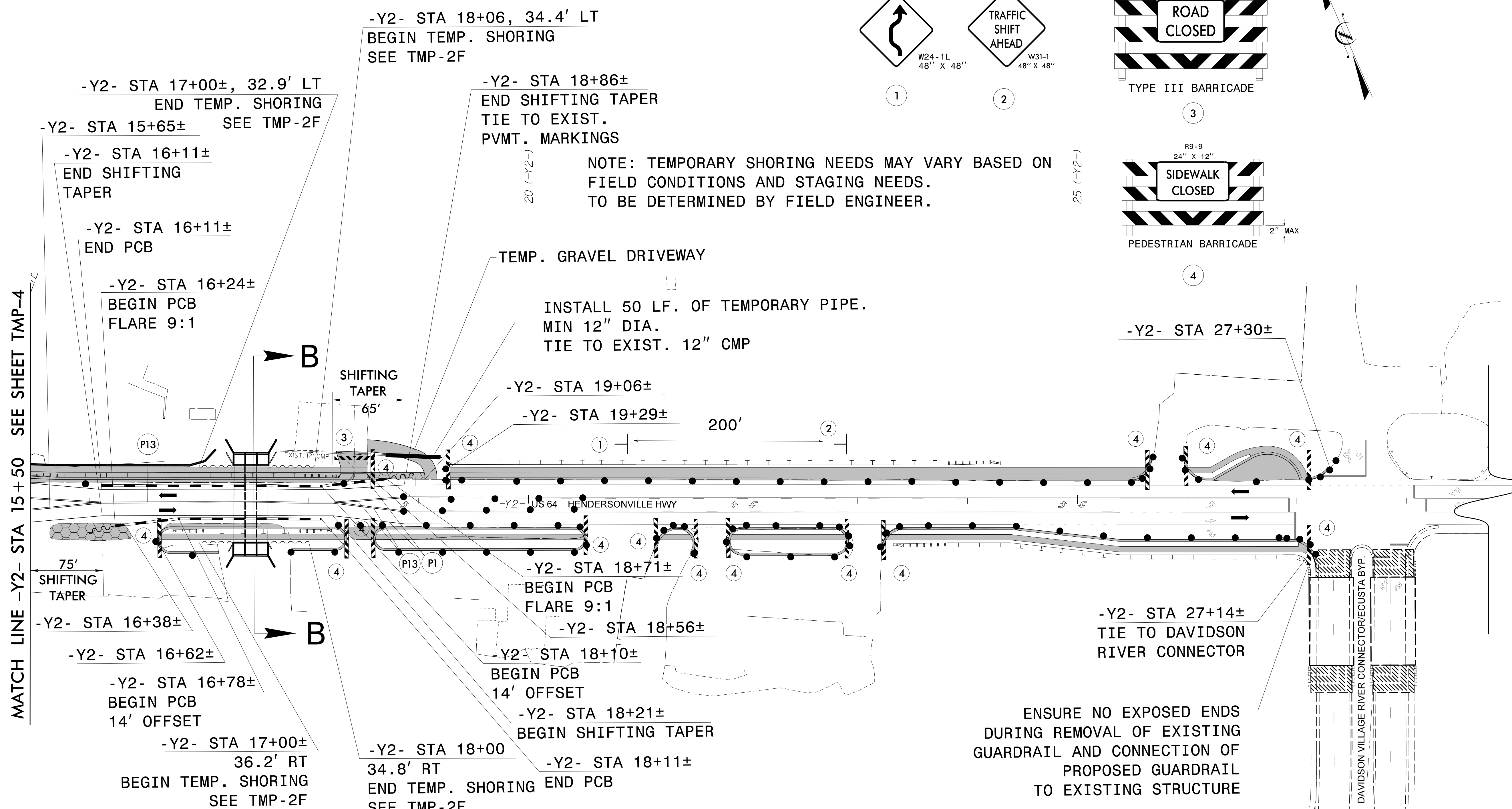
SEAL
042357
ENGINEER
ALLISON C. DRAKE



PHASE I
DETAIL

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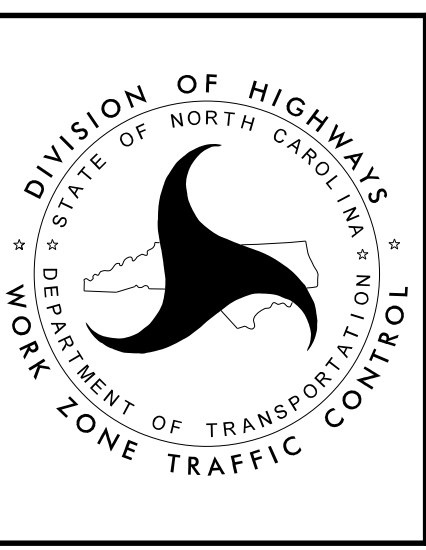
NOTE: SEE PROPOSED PAVEMENT MARKING PLANS FOR PERMANENT MARKING LOCATIONS AND DETAIL.

RS&H 1520 SOUTH BOULEVARD, SUITE 200
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Allison C. Drake
APPROVED: _____
DATE: 6/15/2023

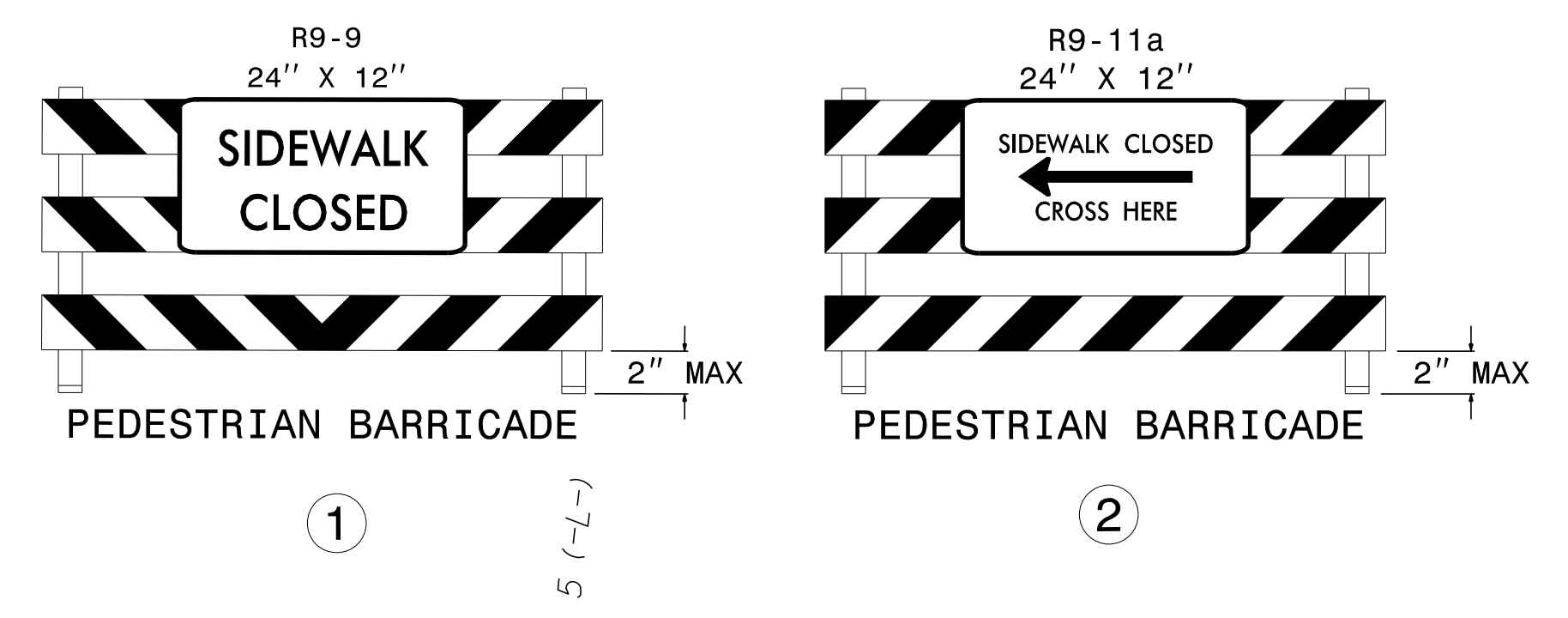
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042357
ENGINEER
ALLISON C. DRAKE

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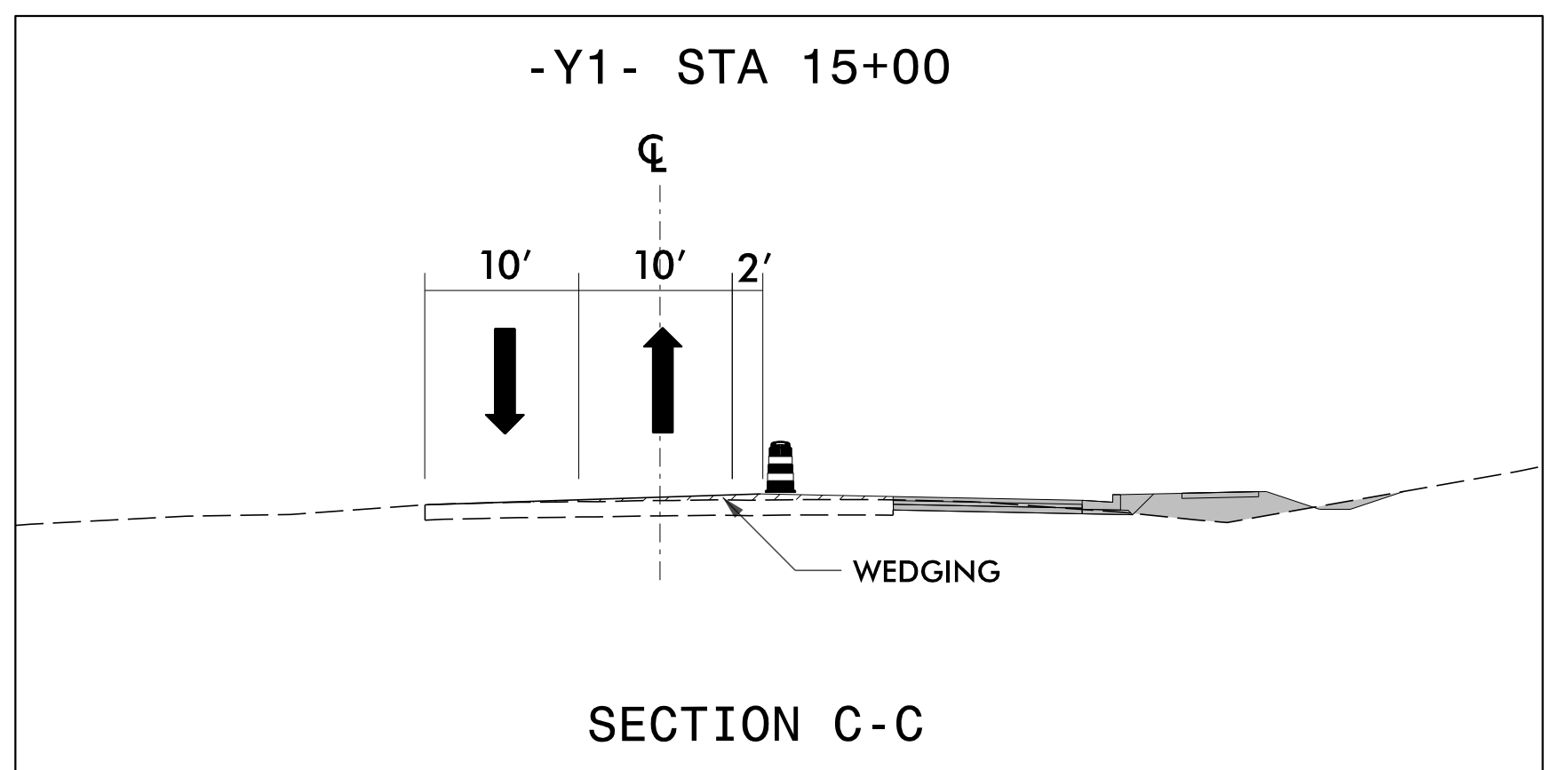
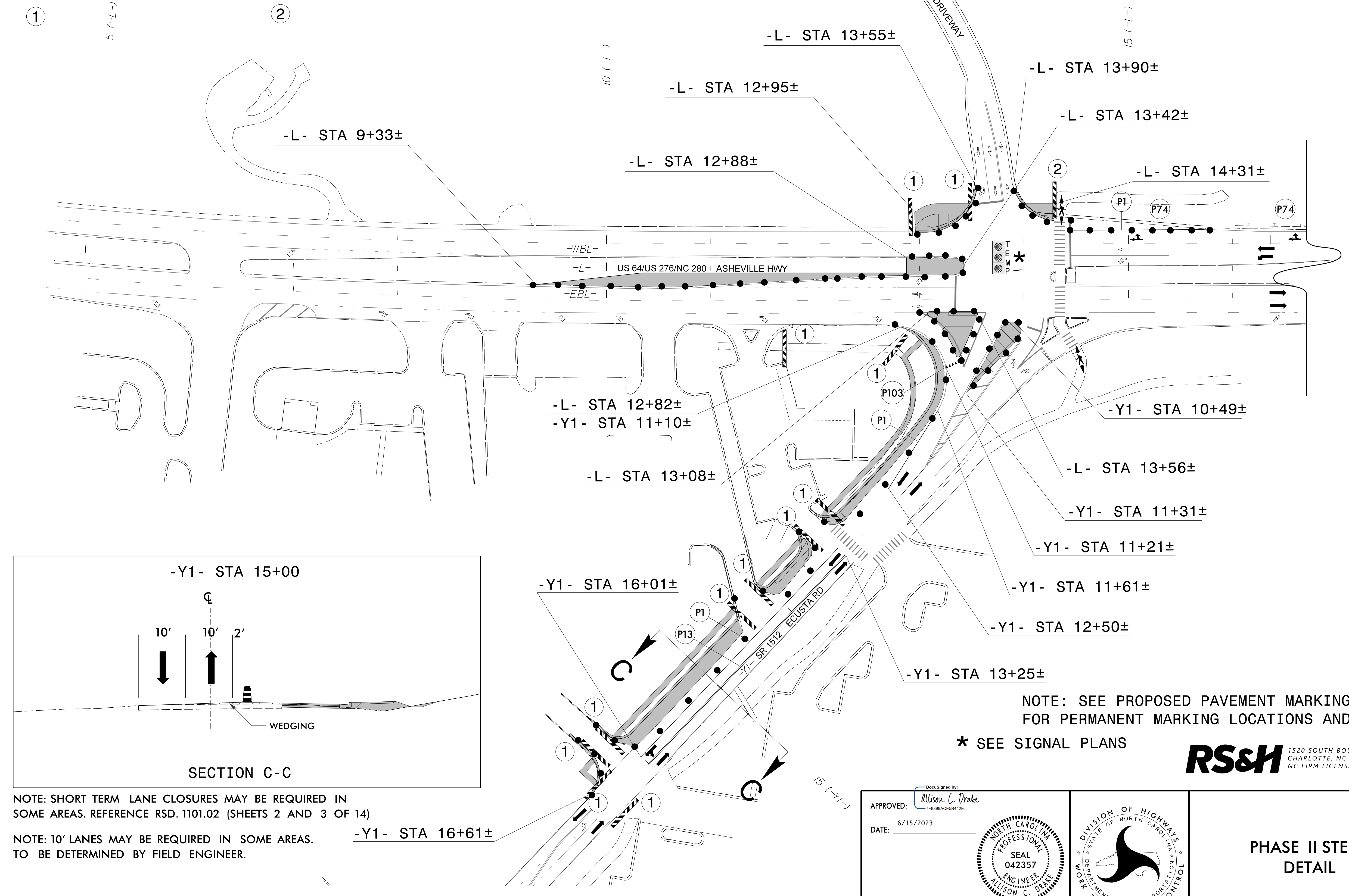
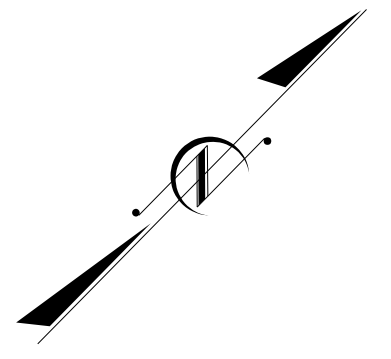


**PHASE I
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5/5/2023
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NOTE: MAINTAIN ACCESS TO STATE EMPLOYEES CREDIT UNION DRIVEWAY AT ALL TIMES. ANY DAY-TIME/BUSINESS HOURS CONSTRUCTION TO BE COMPLETED USING A FLAGGER.



NOTE: SEE PROPOSED PAVEMENT MARKING PLANS FOR PERMANENT MARKING LOCATIONS AND DETAIL.
* SEE SIGNAL PLANS



NOTE: SHORT TERM LANE CLOSURES MAY BE REQUIRED IN SOME AREAS. REFERENCE RSD. 1101.02 (SHEETS 2 AND 3 OF 14)
NOTE: 10' LANES MAY BE REQUIRED IN SOME AREAS. TO BE DETERMINED BY FIELD ENGINEER.

DocuSigned by:
Allison C. Drake
APPROVED: [Signature]
DATE: 6/15/2023

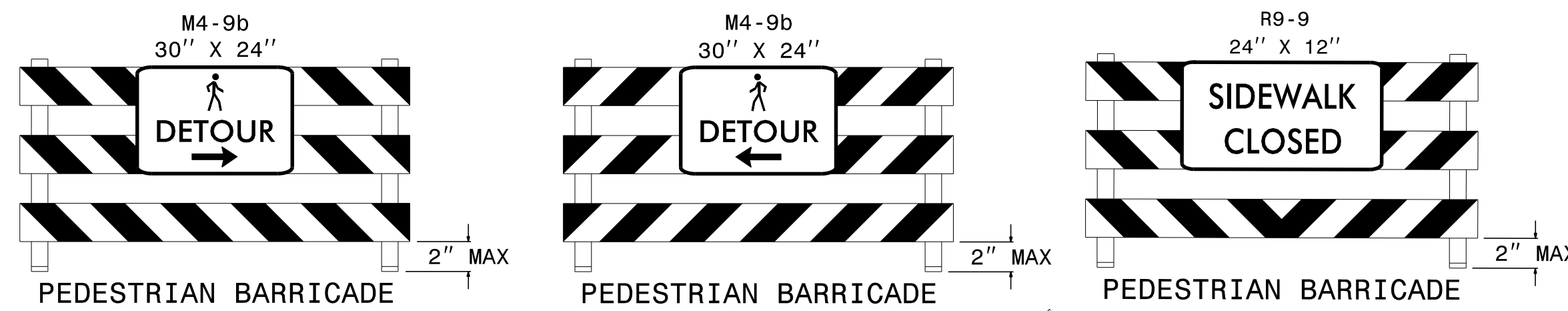
NORTH CAROLINA PROFESSIONAL SEAL 042357 ENGINEER ALLISON C. DRAKE

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

PHASE II STEP 1
DETAIL

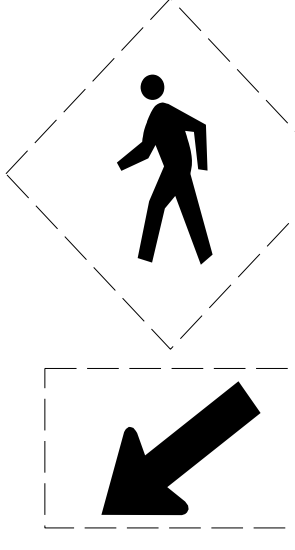
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①

②

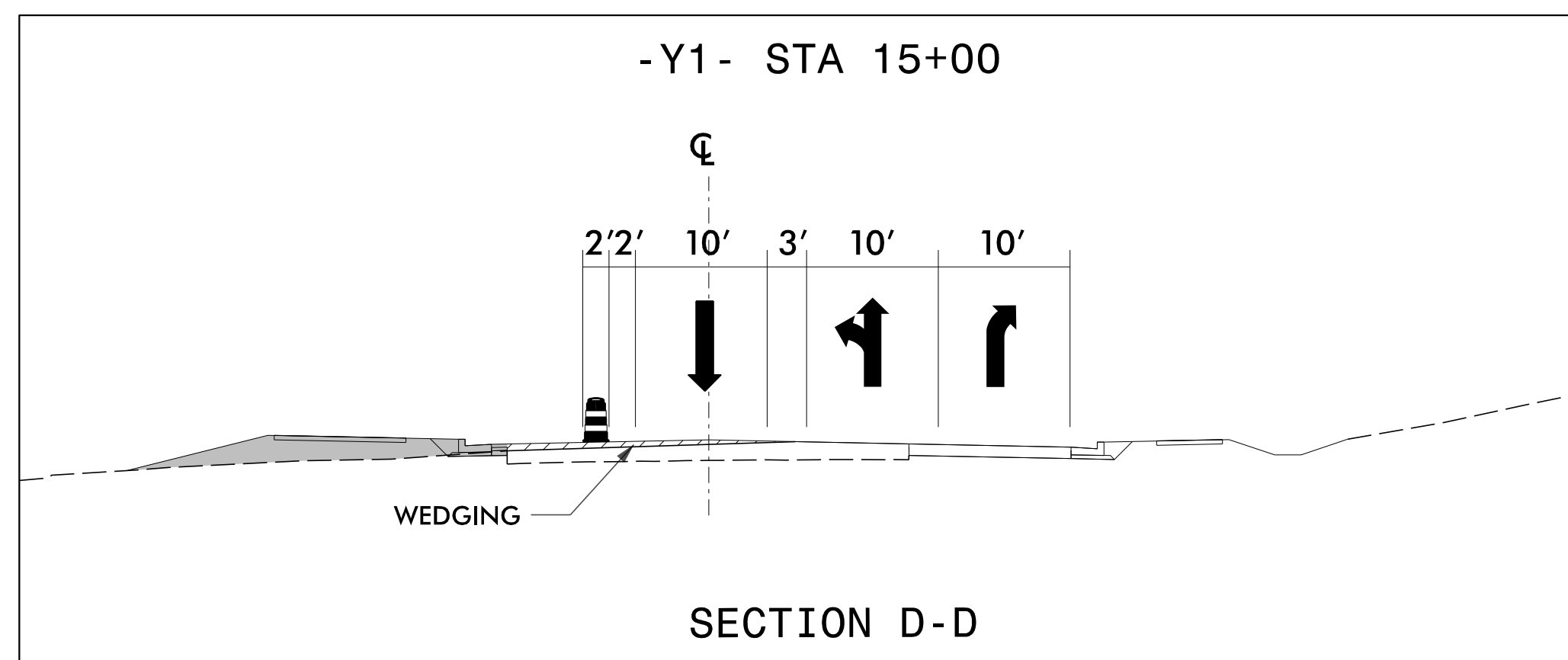
③



④

NOTE: RELOCATE EXISTING SIGN SYSTEM LOCATED AT -Y1- STA. 13+31±

NOTE: MAINTAIN ACCESS TO STATE EMPLOYEES CREDIT UNION DRIVEWAY AT ALL TIMES. ANY DAY-TIME/BUSINESS HOURS CONSTRUCTION TO BE COMPLETED USING A FLAGGER.



-Y1- STA 15+00

SECTION D-D

NOTE: SHORT TERM LANE CLOSURES MAY BE REQUIRED IN SOME AREAS. REFERENCE RSD. 1101.02 (SHEET 1 OF 14)

NOTE: 10' LANES MAY BE REQUIRED IN SOME AREAS. TO BE DETERMINED BY FIELD ENGINEER.

-Y1- STA 16+55±

-Y1- STA 14+45±

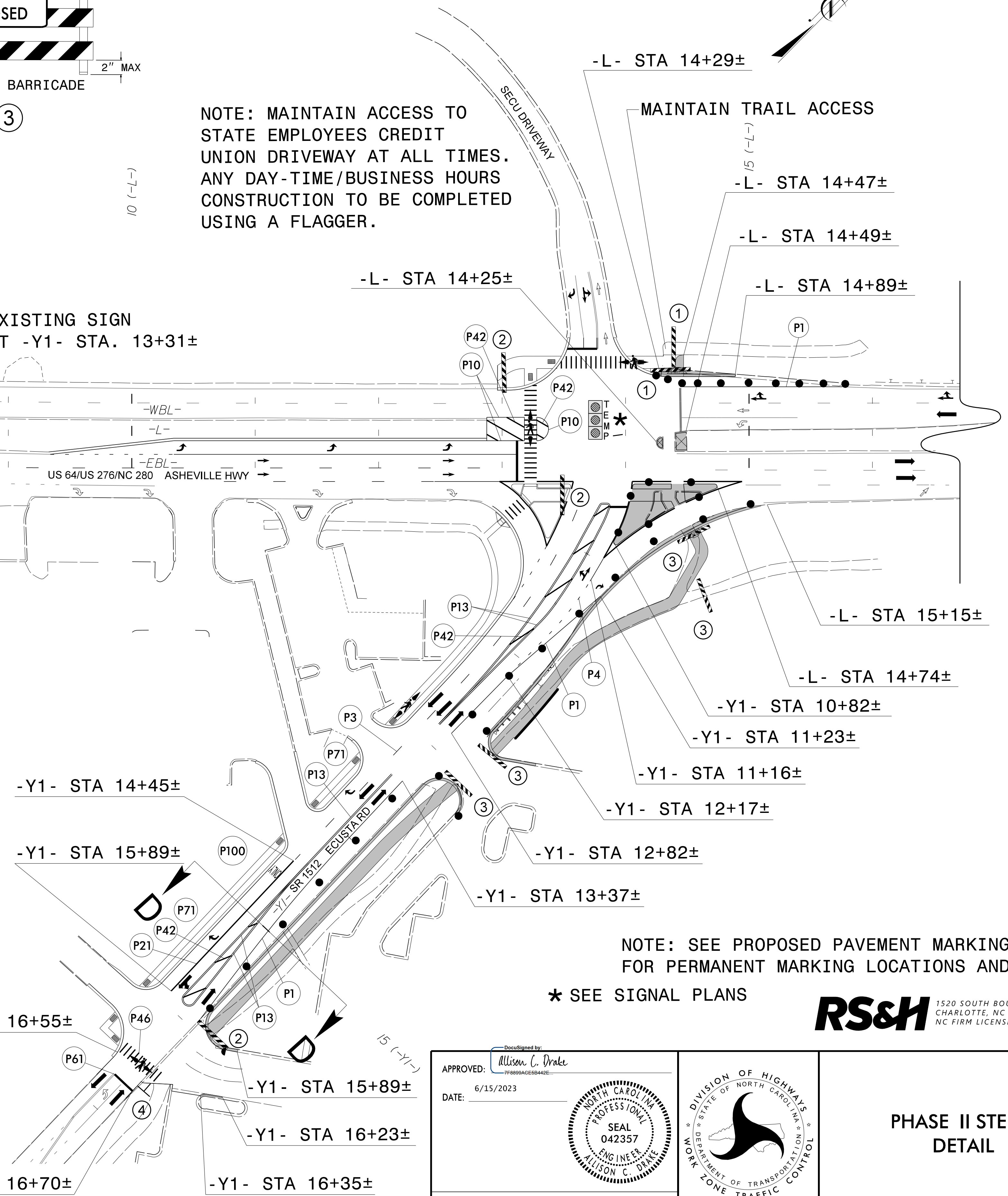
-Y1- STA 15+89±

-Y1- STA 16+70±

-Y1- STA 15+89±

-Y1- STA 16+23±

-Y1- STA 16+35±



-L- STA 14+29±

Maintain TRAIL ACCESS

-L- STA 14+47±

-L- STA 14+49±

-L- STA 14+89±

-L- STA 14+25±

-L- STA 15+15±

-L- STA 14+74±

-Y1- STA 10+82±

-Y1- STA 11+23±

-Y1- STA 11+16±

-Y1- STA 12+17±

-Y1- STA 12+82±

-Y1- STA 13+37±

NOTE: SEE PROPOSED PAVEMENT MARKING PLANS FOR PERMANENT MARKING LOCATIONS AND DETAIL.

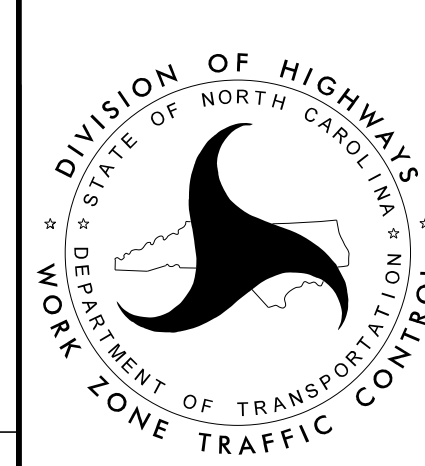
* SEE SIGNAL PLANS



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Allison C. Drake

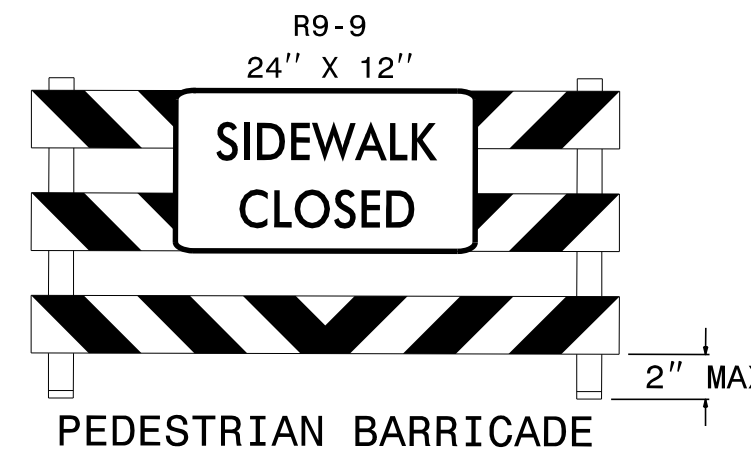
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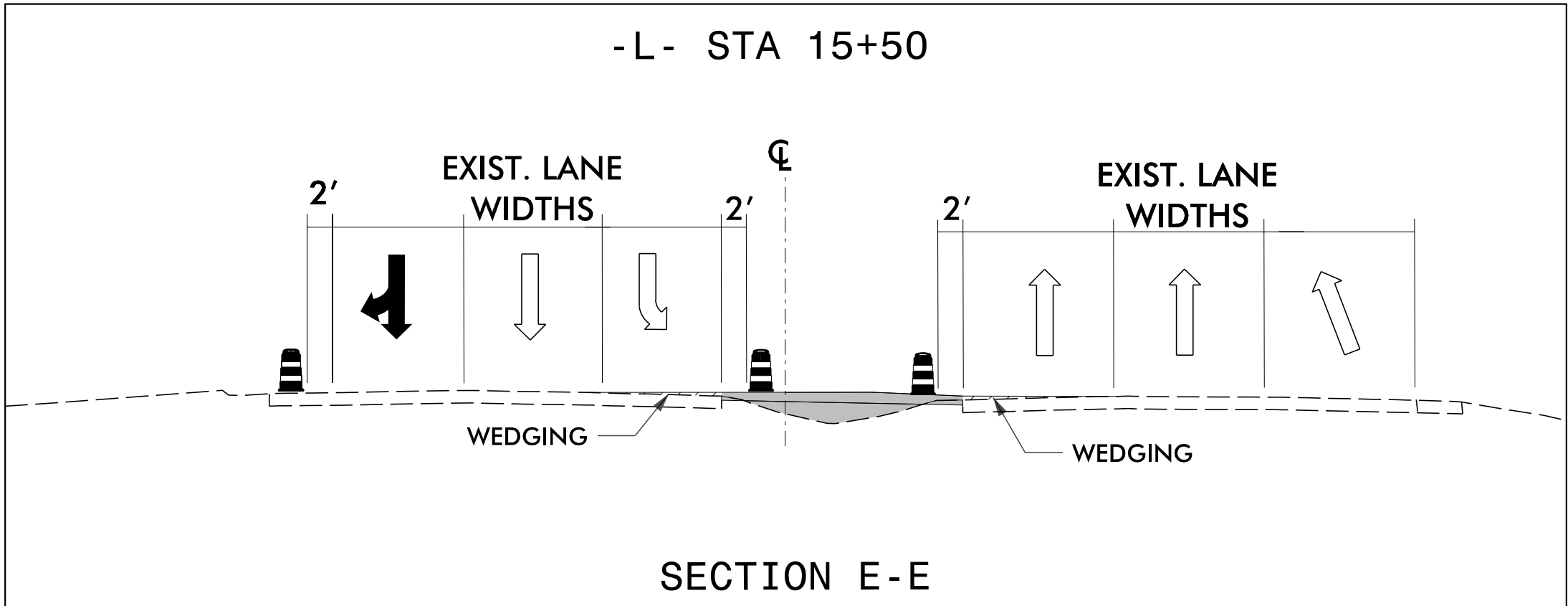
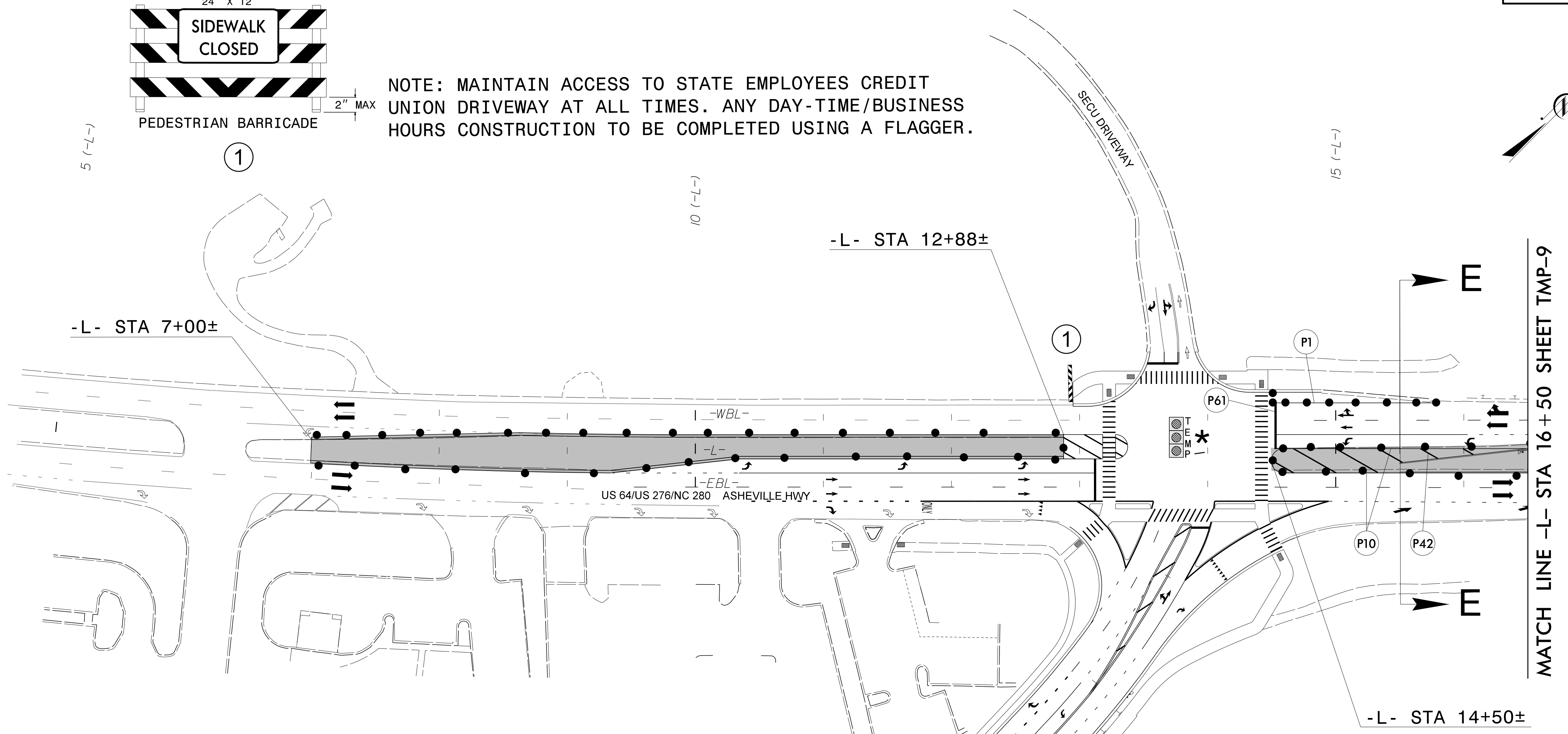


PHASE II STEP 2
DETAIL

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NOTE: MAINTAIN ACCESS TO STATE EMPLOYEES CREDIT UNION DRIVEWAY AT ALL TIMES. ANY DAY-TIME/BUSINESS HOURS CONSTRUCTION TO BE COMPLETED USING A FLAGGER.



NOTE: SHORT TERM LANE CLOSURES MAY BE REQUIRED IN SOME AREAS. REFERENCE RSD. 1101.02 (SHEET 3 OF 14)

NOTE: 10' LANES MAY BE REQUIRED IN SOME AREAS. TO BE DETERMINED BY FIELD ENGINEER.

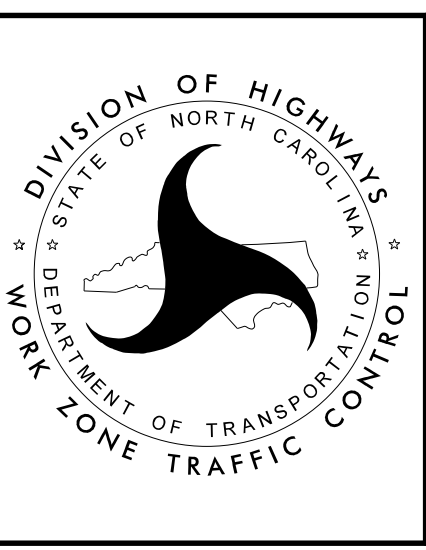
NOTE: SEE PROPOSED PAVEMENT MARKING PLANS FOR PERMANENT MARKING LOCATIONS AND DETAIL.

* SEE SIGNAL PLANS

RS&H 1520 SOUTH BOULEVARD, SUITE 200
CHARLOTTE, NC 28203
NC FIRM LICENSE No: F-0493

APPROVED: *Allison C. Drake*
DATE: 6/15/2023

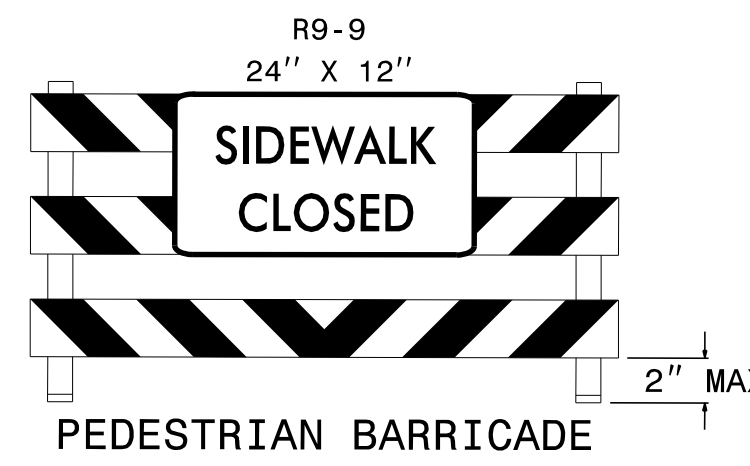
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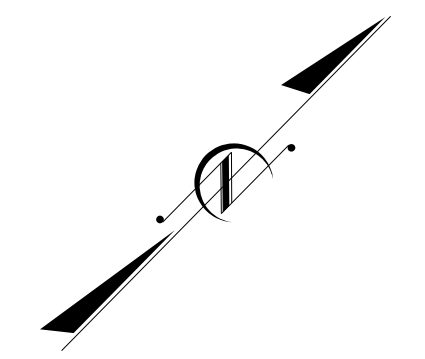
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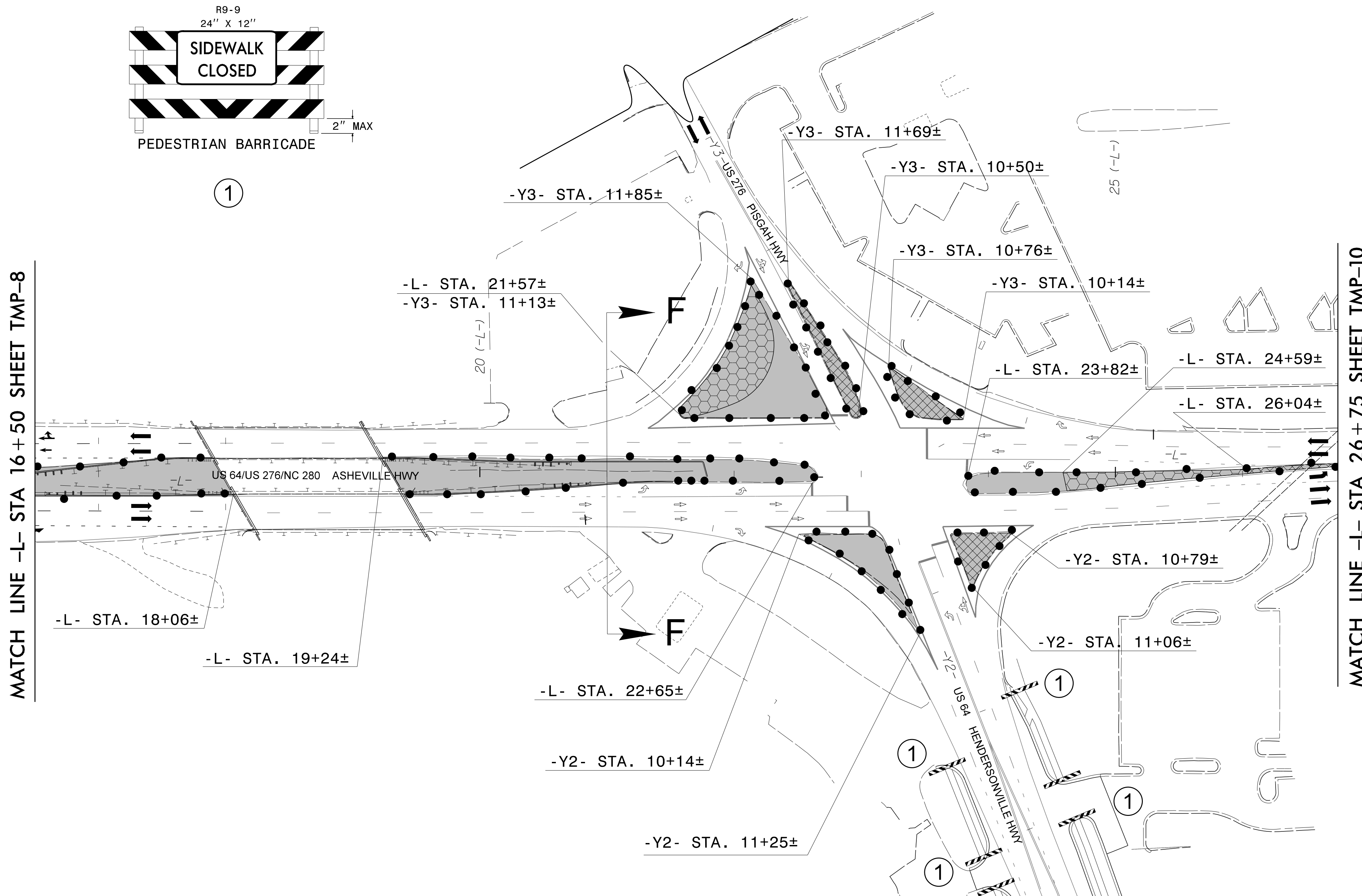
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R-5799	TMP-9



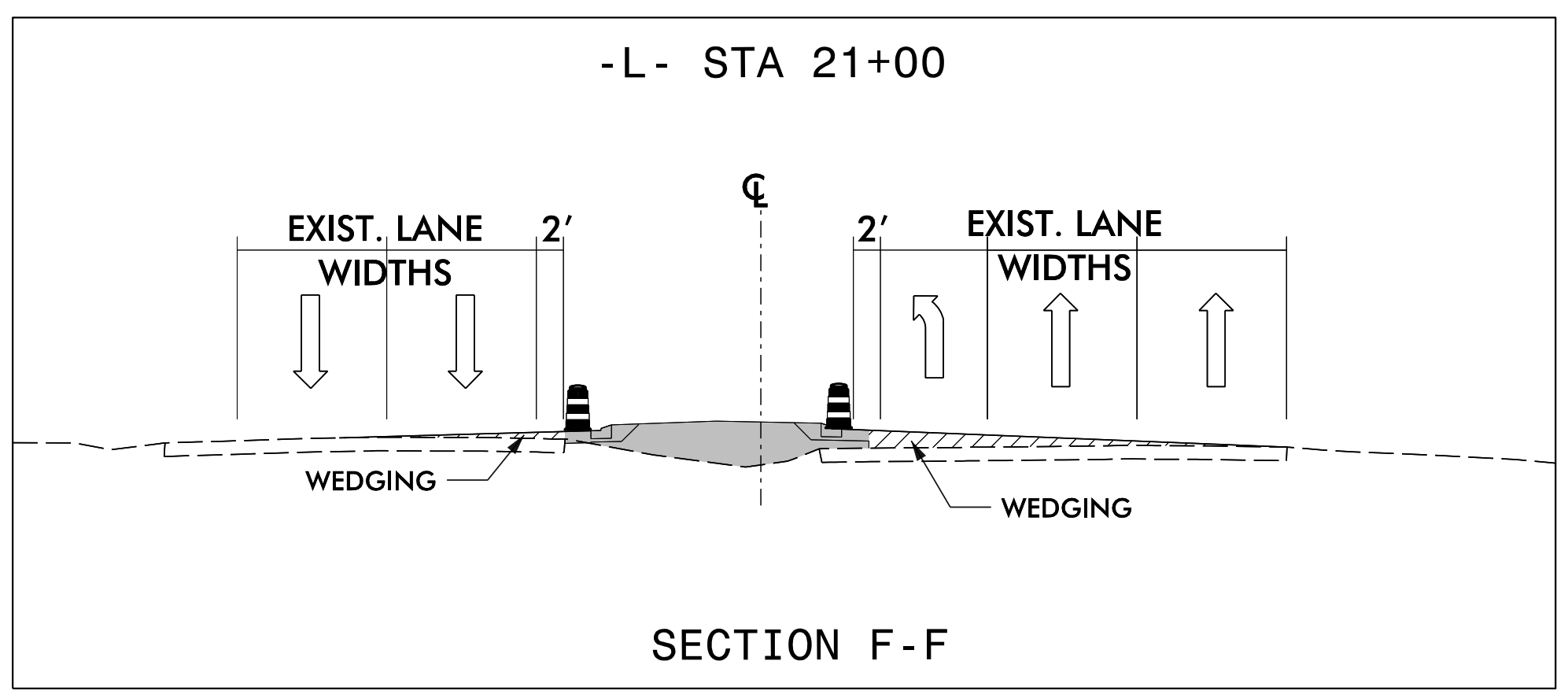
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MATCH LINE -L- STA 16+50 SHEET TMP-8



MATCH LINE -L- STA 26+75 SHEET TMP-10



SECTION F-F

NOTE: SHORT TERM LANE CLOSURES MAY BE REQUIRED IN SOME AREAS. REFERENCE RSD. 1101.02 (SHEET 3 OF 14)
NOTE: 10' LANES MAY BE REQUIRED IN SOME AREAS. TO BE DETERMINED BY FIELD ENGINEER.

NOTE: SEE PROPOSED PAVEMENT MARKING PLANS FOR PERMANENT MARKING LOCATIONS AND DETAIL.

RS&H 1520 SOUTH BOULEVARD, SUITE 200
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NC FIRM LICENSE No: F-0493

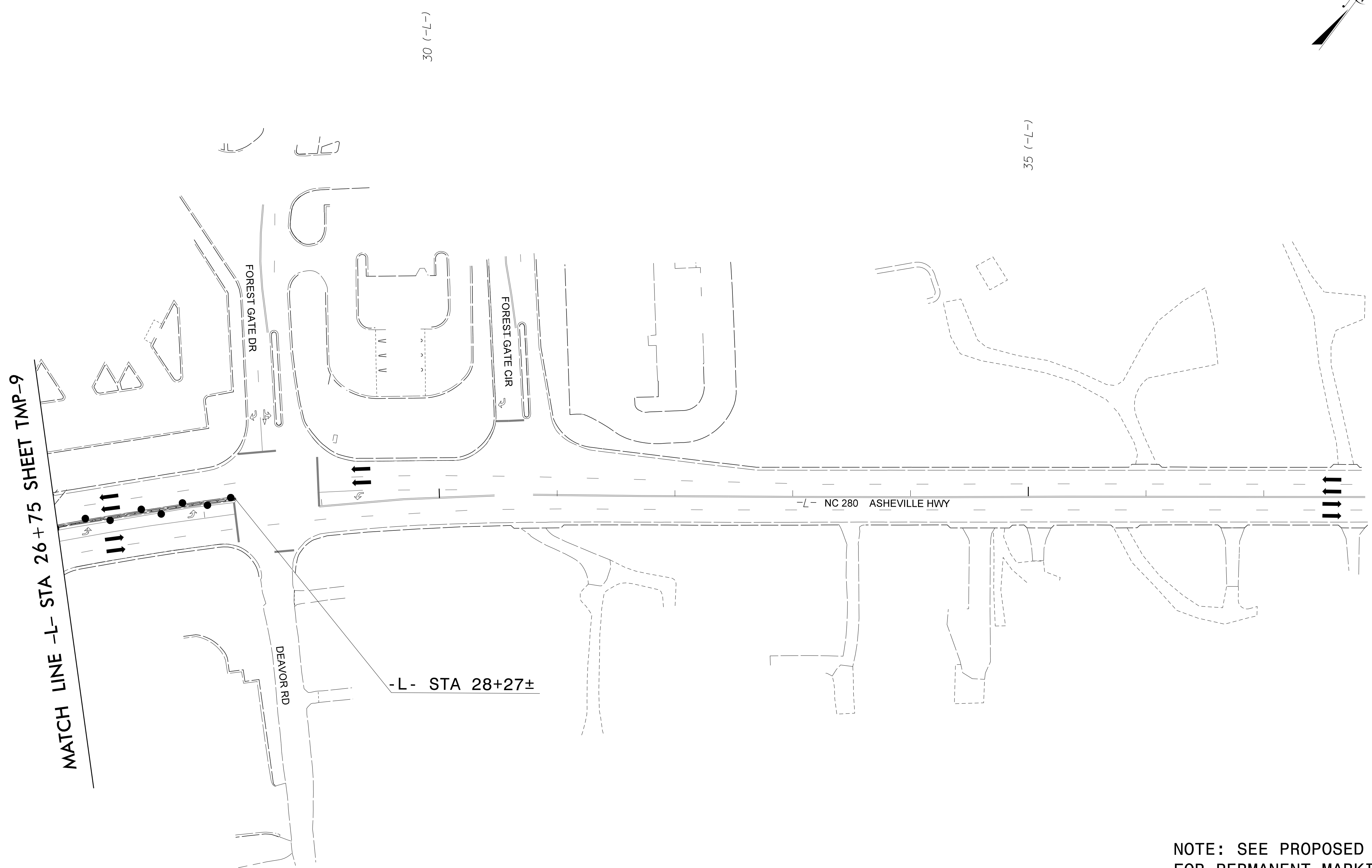
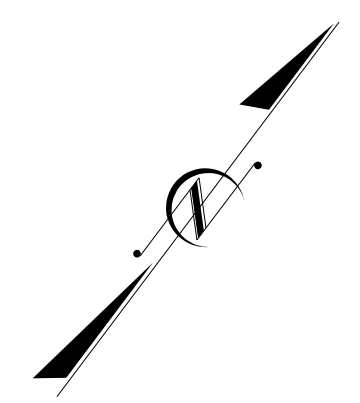
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DATE: 6/15/2023



**PHASE III
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PROJ. REFERENCE NO.	SHEET NO.
R-5799	TMP-10



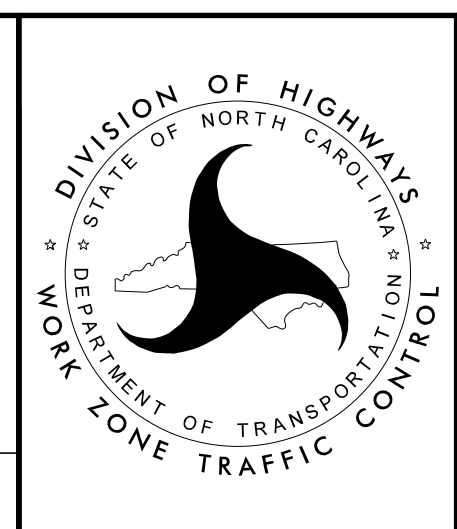
NOTE: SEE PROPOSED PAVEMENT MARKING PLANS FOR PERMANENT MARKING LOCATIONS AND DETAIL.

RS&H 1520 SOUTH BOULEVARD, SUITE 200
CHARLOTTE, NC 28203
NC FIRM LICENSE No: F-0493

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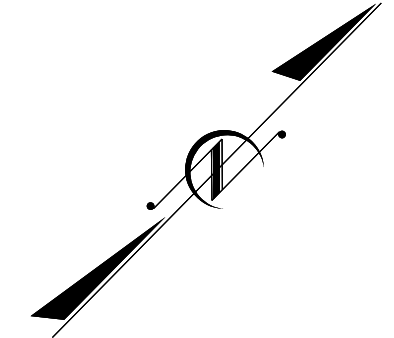
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DATE: 6/15/2023

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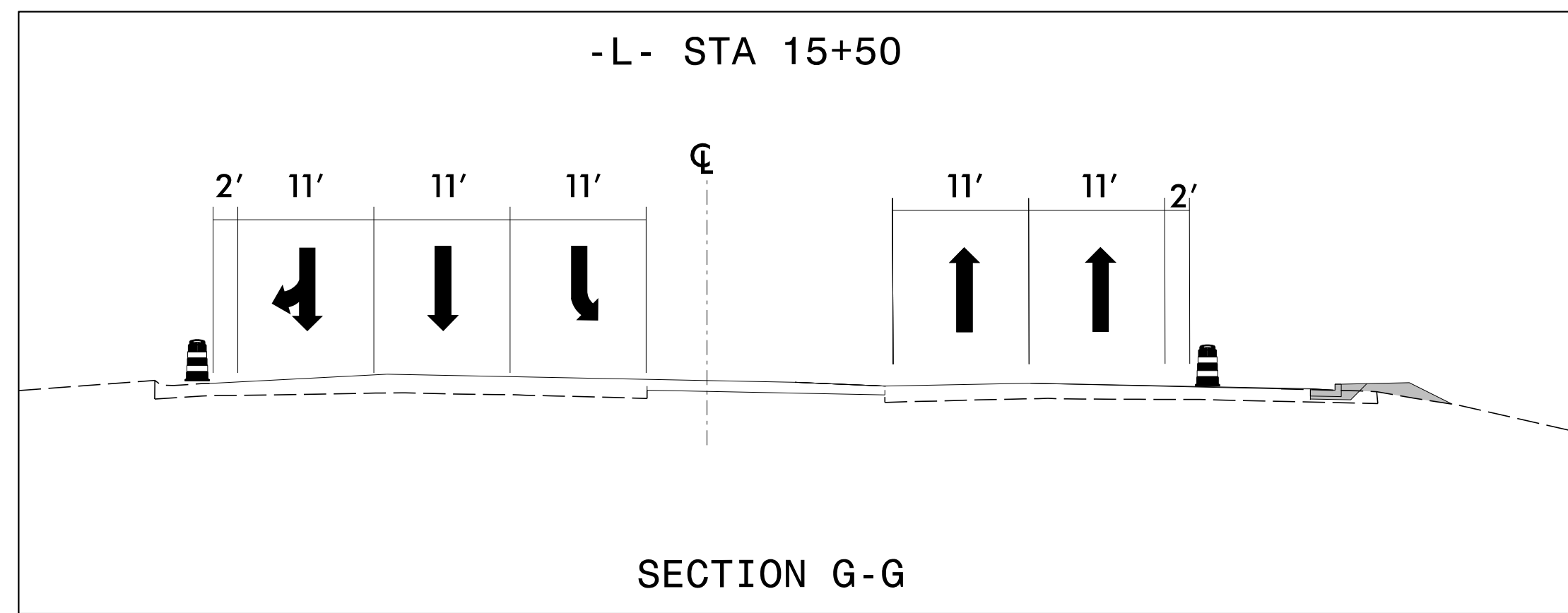
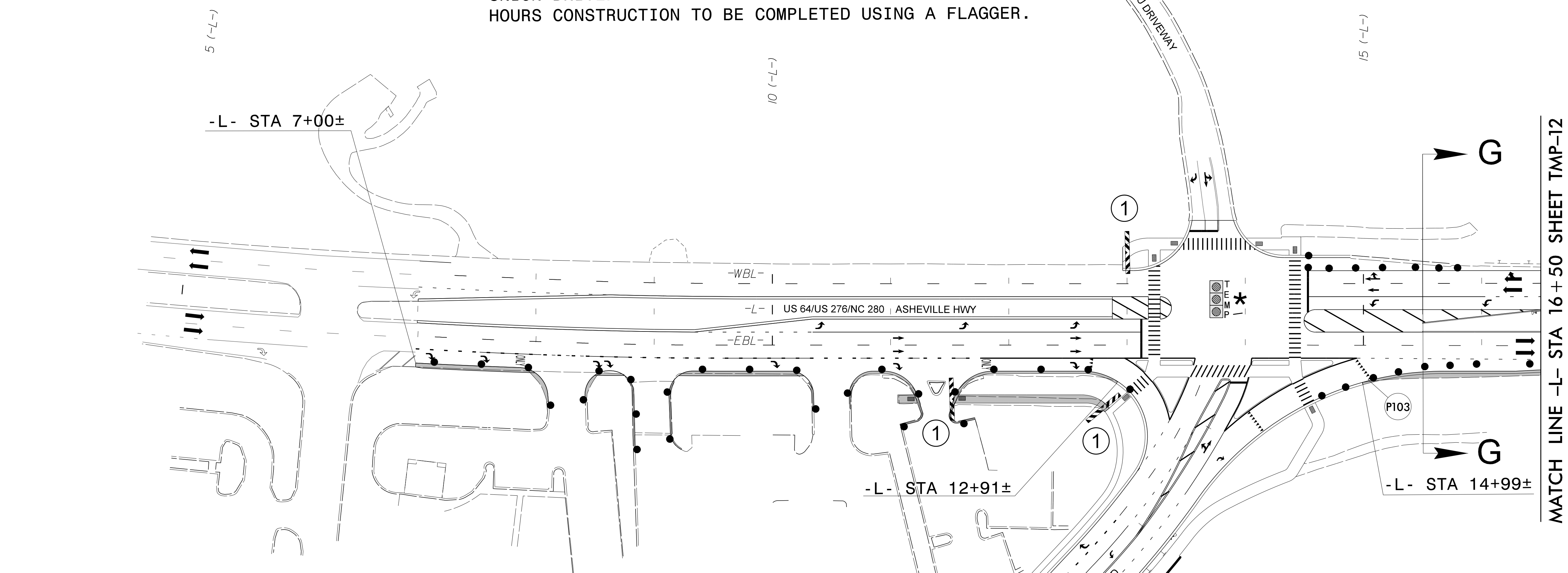


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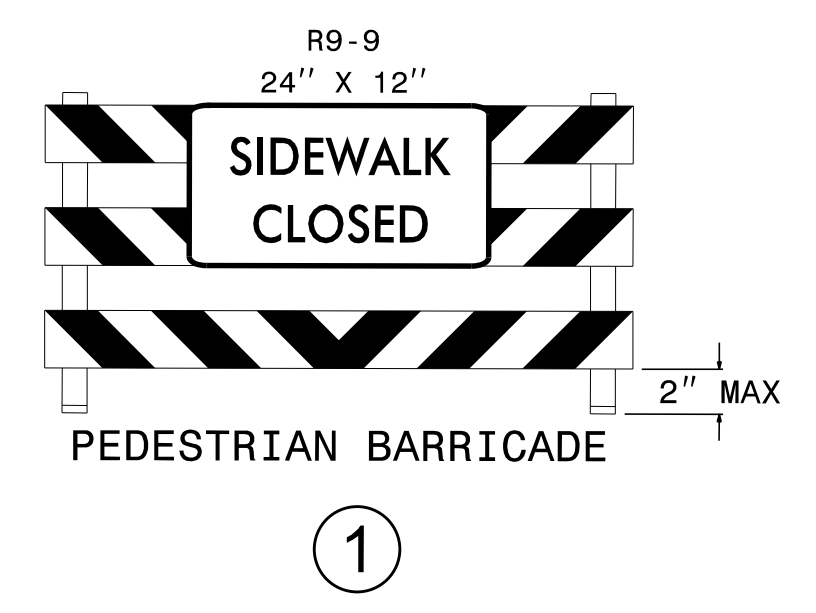
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NOTE: MAINTAIN ACCESS TO STATE EMPLOYEES CREDIT UNION DRIVEWAY AT ALL TIMES. ANY DAY-TIME/BUSINESS HOURS CONSTRUCTION TO BE COMPLETED USING A FLAGGER.



NOTE: SHORT TERM LANE CLOSURES MAY BE REQUIRED IN AREAS ALONG -L-. REFERENCE RSD. 1101.02 (SHEET 3 OF 14)



NOTE: SEE PROPOSED PAVEMENT MARKING PLANS FOR PERMANENT MARKING LOCATIONS AND DETAIL.

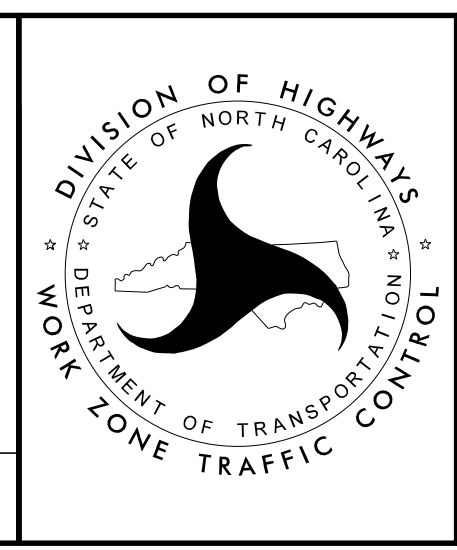
* SEE SIGNAL PLANS

RS&H 1520 SOUTH BOULEVARD, SUITE 200
CHARLOTTE, NC 28203
NC FIRM LICENSE No: F-0493

DocuSigned by:
Allison C. Drake
378690ACE6842E

APPROVED: _____
DATE: 6/15/2023

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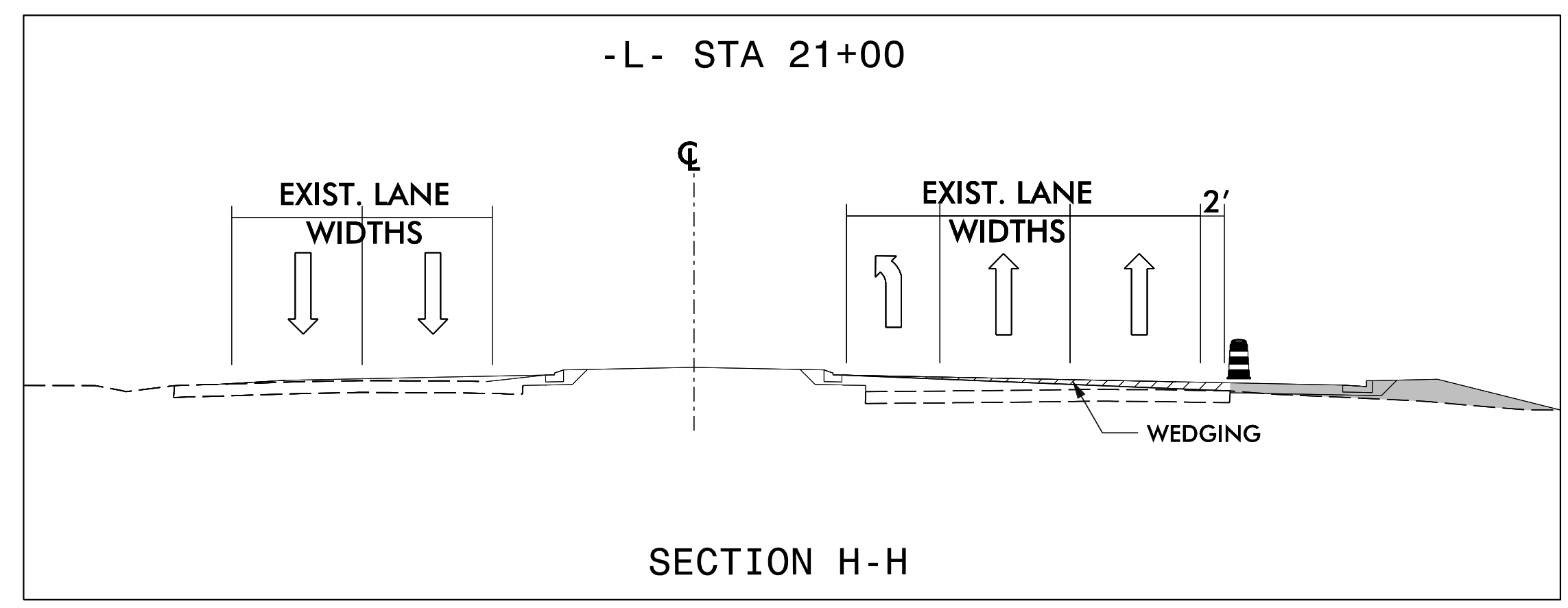
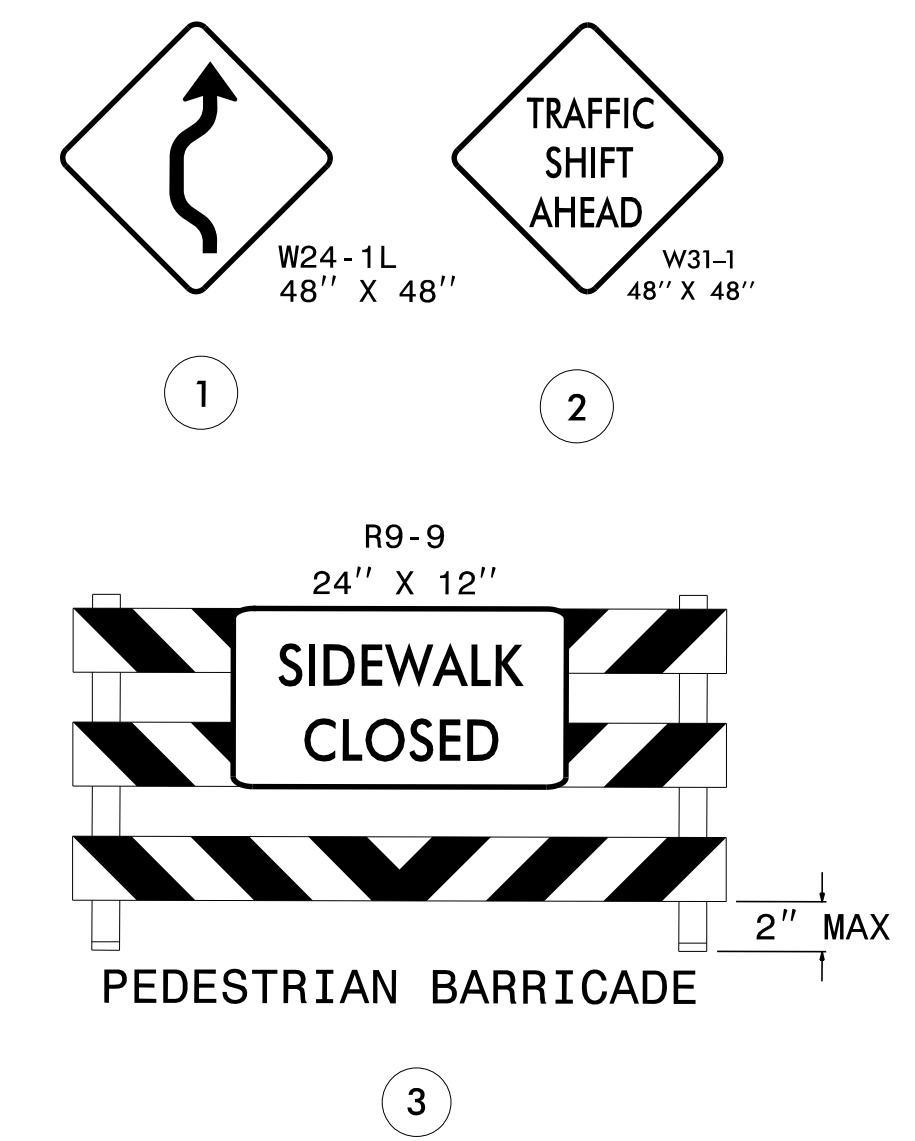
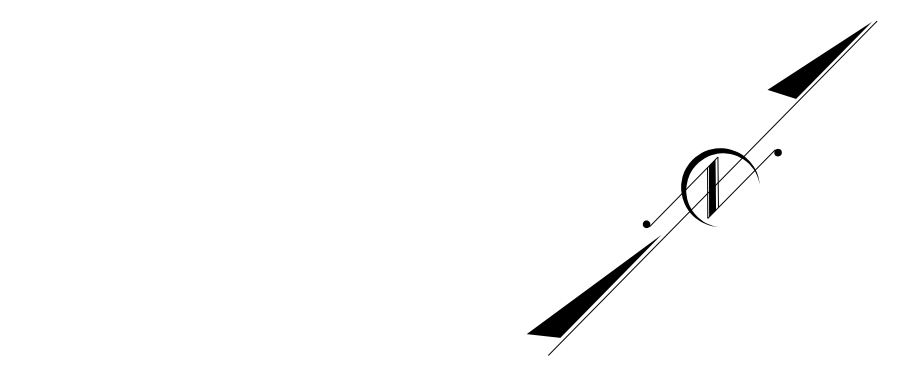
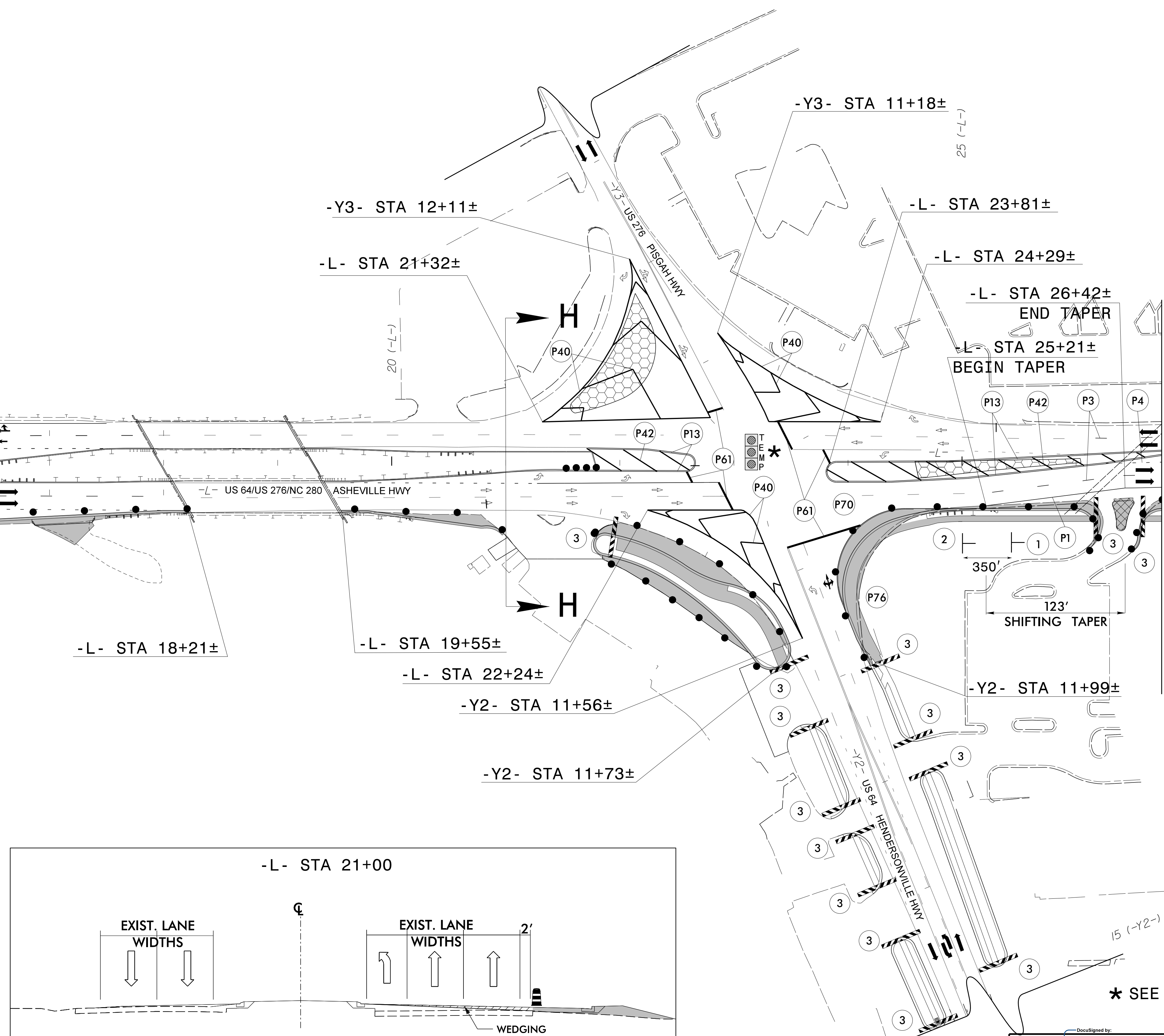


**PHASE IV
DETAIL**

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MATCH LINE -L- STA 16+50 SHEET TMP-11

MATCH LINE -L- STA 26+75 SHEET TMP-13



NOTE: SHORT TERM LANE CLOSURES MAY BE REQUIRED IN AREAS
ALONG -L- AND -Y2-. REFERENCE RSD. 1101.02 (SHEET 3 OF 14)

NOTE: SEE PROPOSED PAVEMENT MARKING PLANS
FOR PERMANENT MARKING LOCATIONS AND DETAIL.

* SEE SIGNAL PLANS

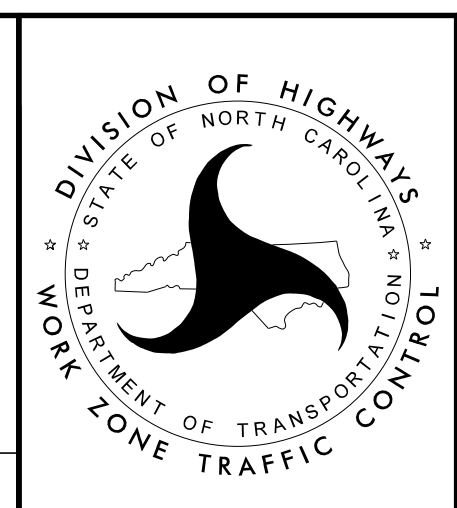
RS&H 1520 SOUTH BOULEVARD, SUITE 200
CHARLOTTE, NC 28203
NC FIRM LICENSE No: F-0493

APPROVED: *Allison C. Drake*
DATE: 6/15/2023

DocuSigned by:
Allison C. Drake
2F8899ACE58442E

PROFESSIONAL
SEAL
042357
ENGINEER
ALLISON C. DRAKE

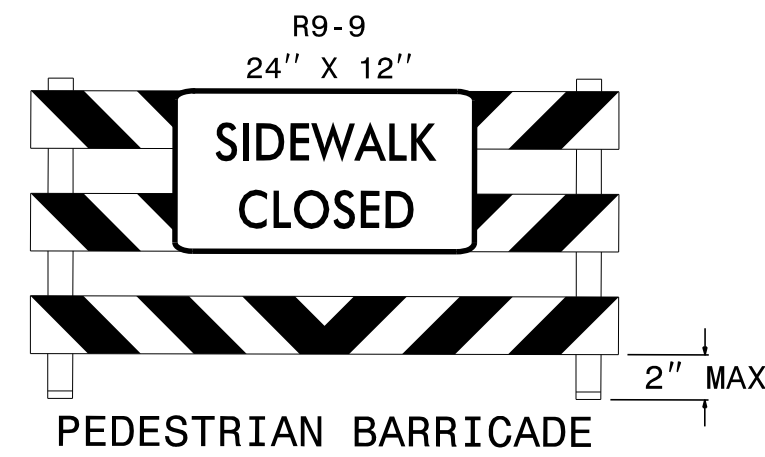
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PHASE IV
DETAIL

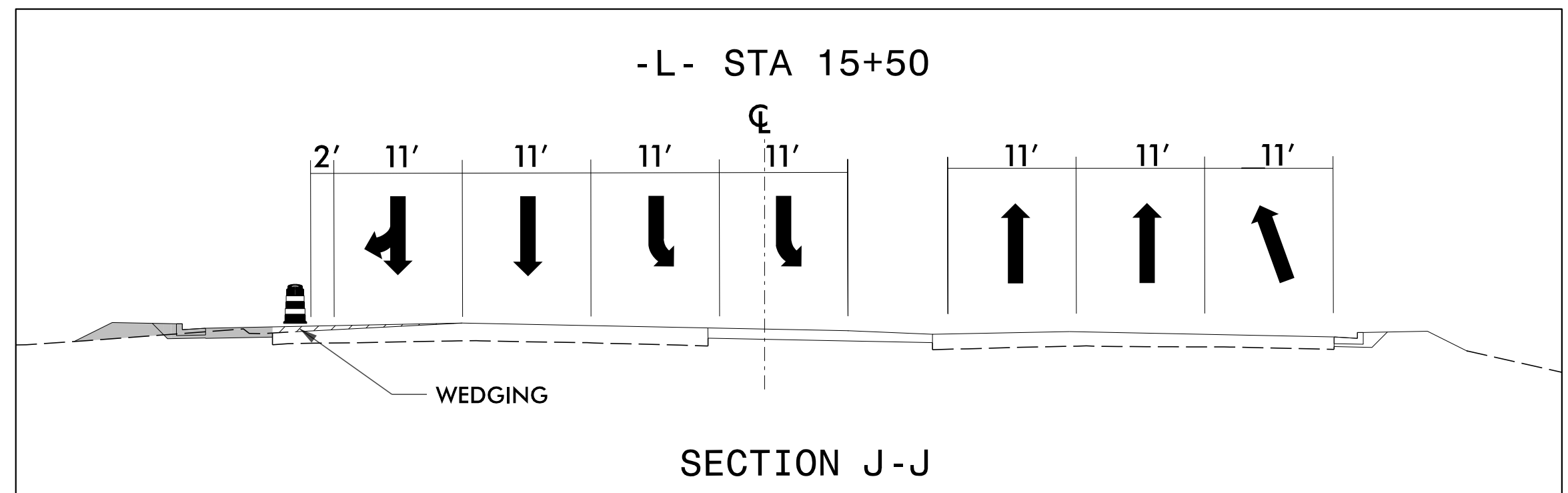
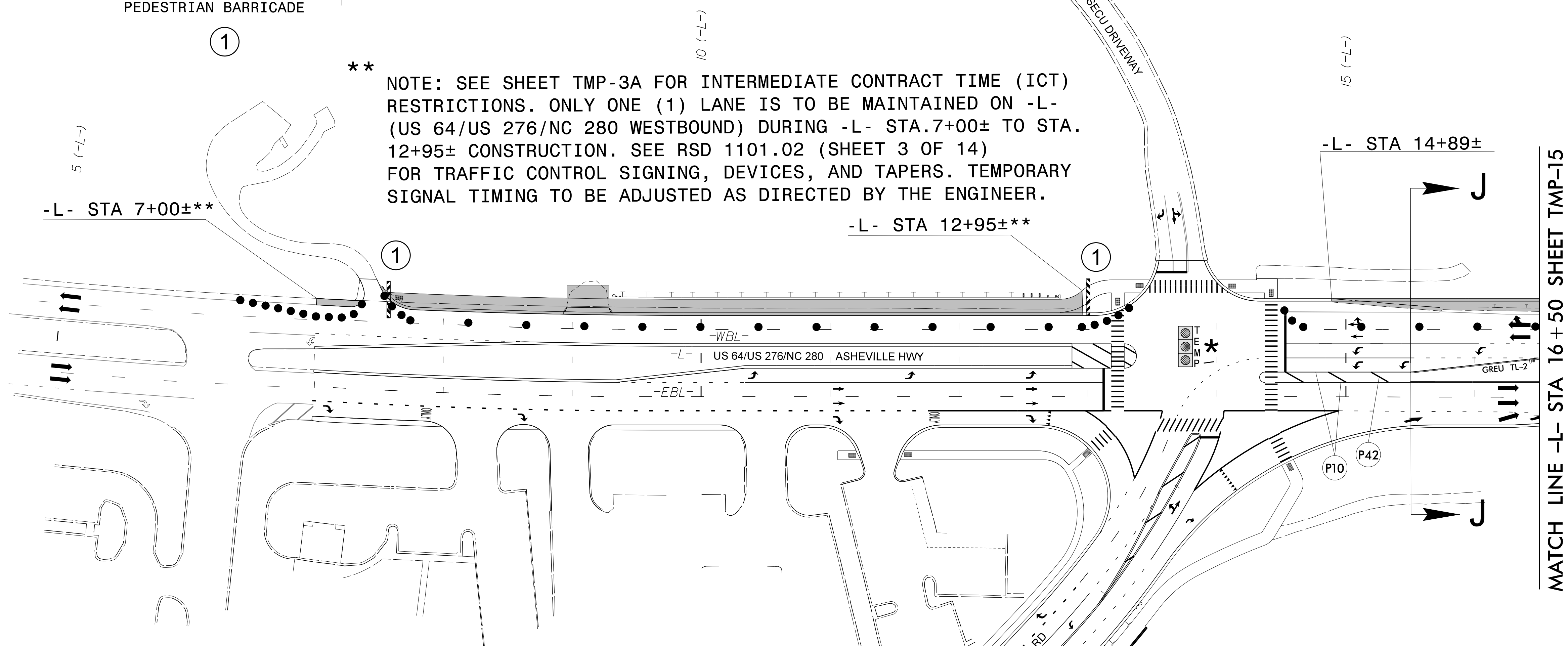
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 User:McLaughlin

PROJ. REFERENCE NO.	SHEET NO.
R-5799	TMP-14



NOTE: MAINTAIN ACCESS TO STATE EMPLOYEES CREDIT UNION DRIVEWAY AT ALL TIMES. ANY DAY-TIME/BUSINESS HOURS CONSTRUCTION TO BE COMPLETED USING A FLAGGER.

** NOTE: SEE SHEET TMP-3A FOR INTERMEDIATE CONTRACT TIME (ICT) RESTRICTIONS. ONLY ONE (1) LANE IS TO BE MAINTAINED ON -L- (US 64/US 276/NC 280 WESTBOUND) DURING -L- STA.7+00± TO STA. 12+95± CONSTRUCTION. SEE RSD 1101.02 (SHEET 3 OF 14) FOR TRAFFIC CONTROL SIGNING, DEVICES, AND TAPERS. TEMPORARY SIGNAL TIMING TO BE ADJUSTED AS DIRECTED BY THE ENGINEER.



NOTE: SHORT TERM LANE CLOSURES MAY BE REQUIRED IN SOME AREAS. REFERENCE RSD. 1101.02 (SHEET 3 OF 14)

NOTE: SEE PROPOSED PAVEMENT MARKING PLANS FOR PERMANENT MARKING LOCATIONS AND DETAIL.

* SEE SIGNAL PLANS



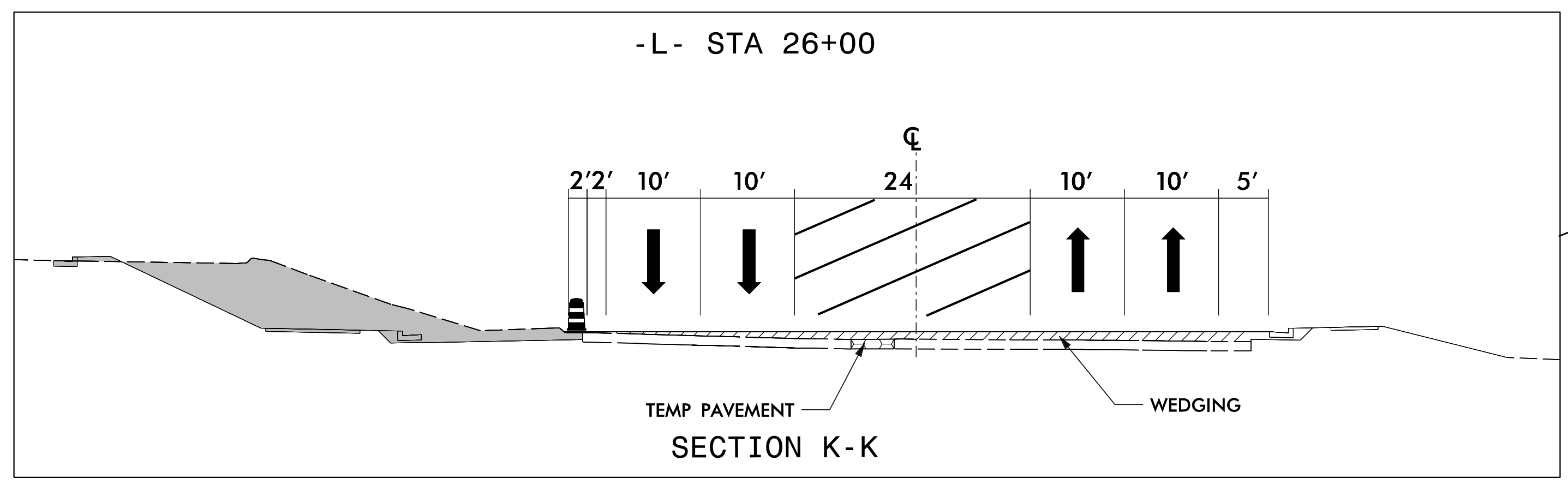
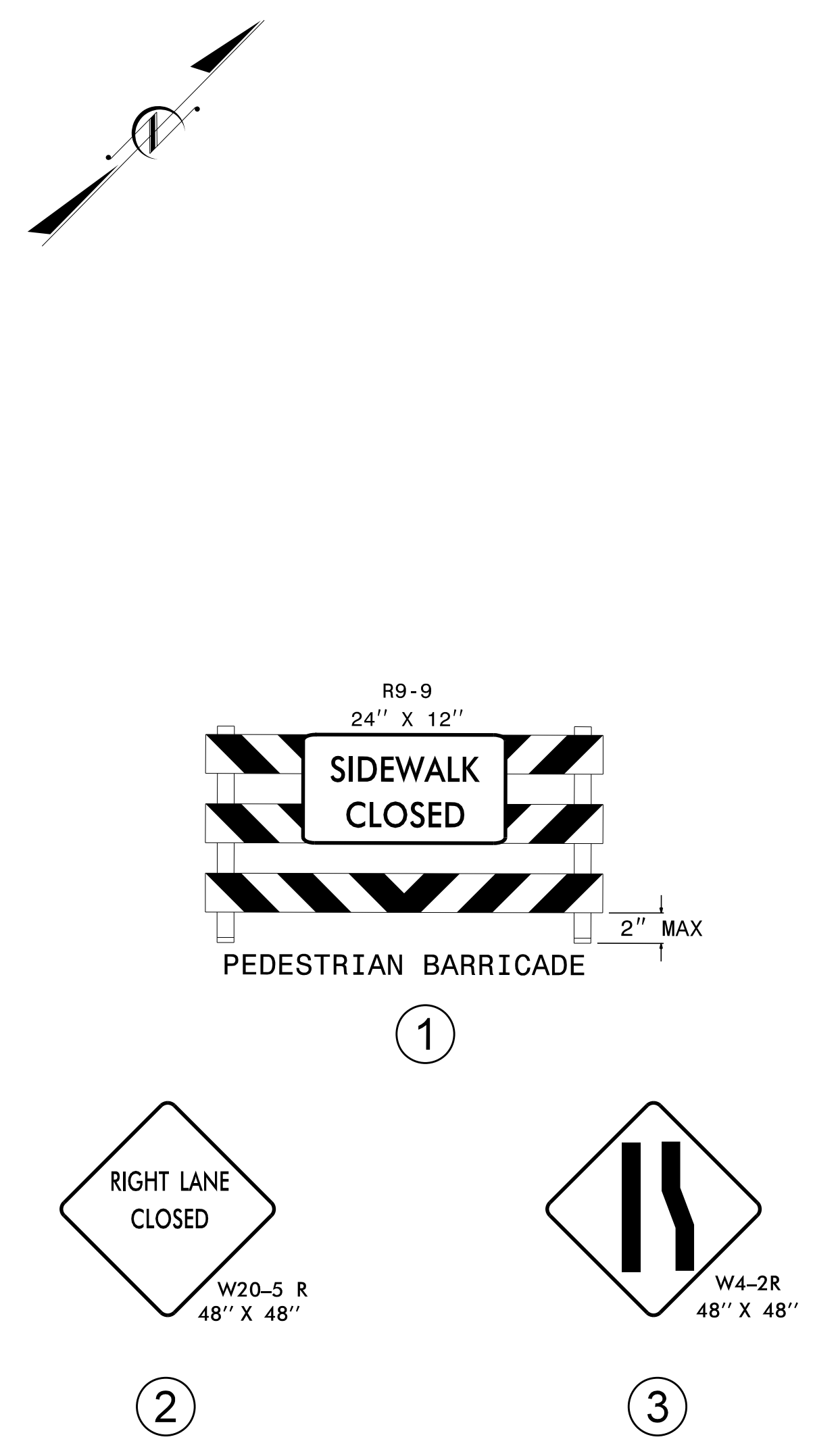
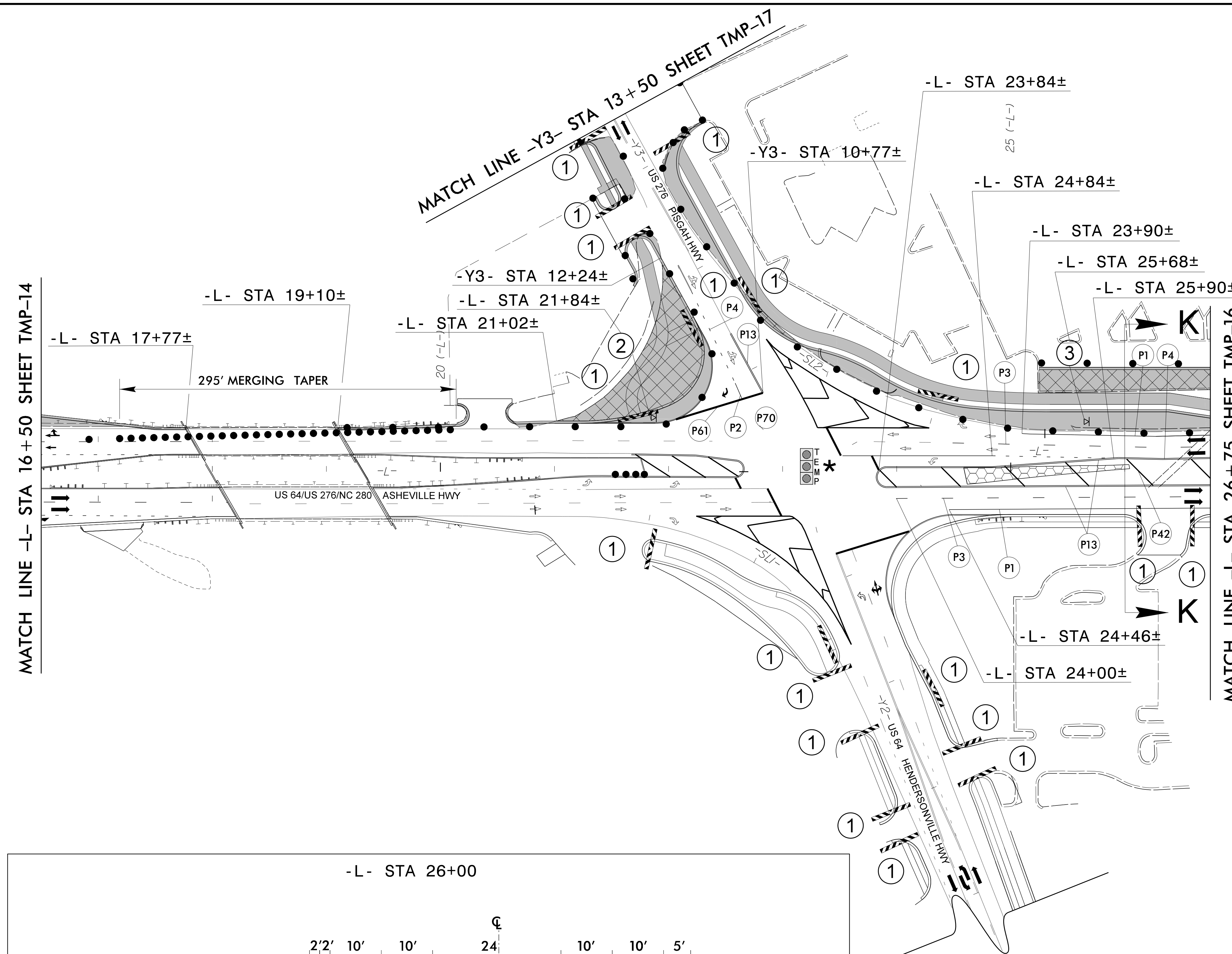
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Allison C. Drake
APPROVED: _____
DATE: 7/12/2023

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**PHASE V
DETAIL**



NOTE: SEE PROPOSED PAVEMENT MARKING PLANS FOR PERMANENT MARKING LOCATIONS AND DETAIL.

* SEE SIGNAL PLANS



NOTE: SHORT TERM LANE CLOSURES MAY BE REQUIRED IN SOME AREAS. REFERENCE RSD.1101.02 (SHEET 3 OF 14)

APPROVED: *Allison C. Drake*

DATE: 7/12/2023

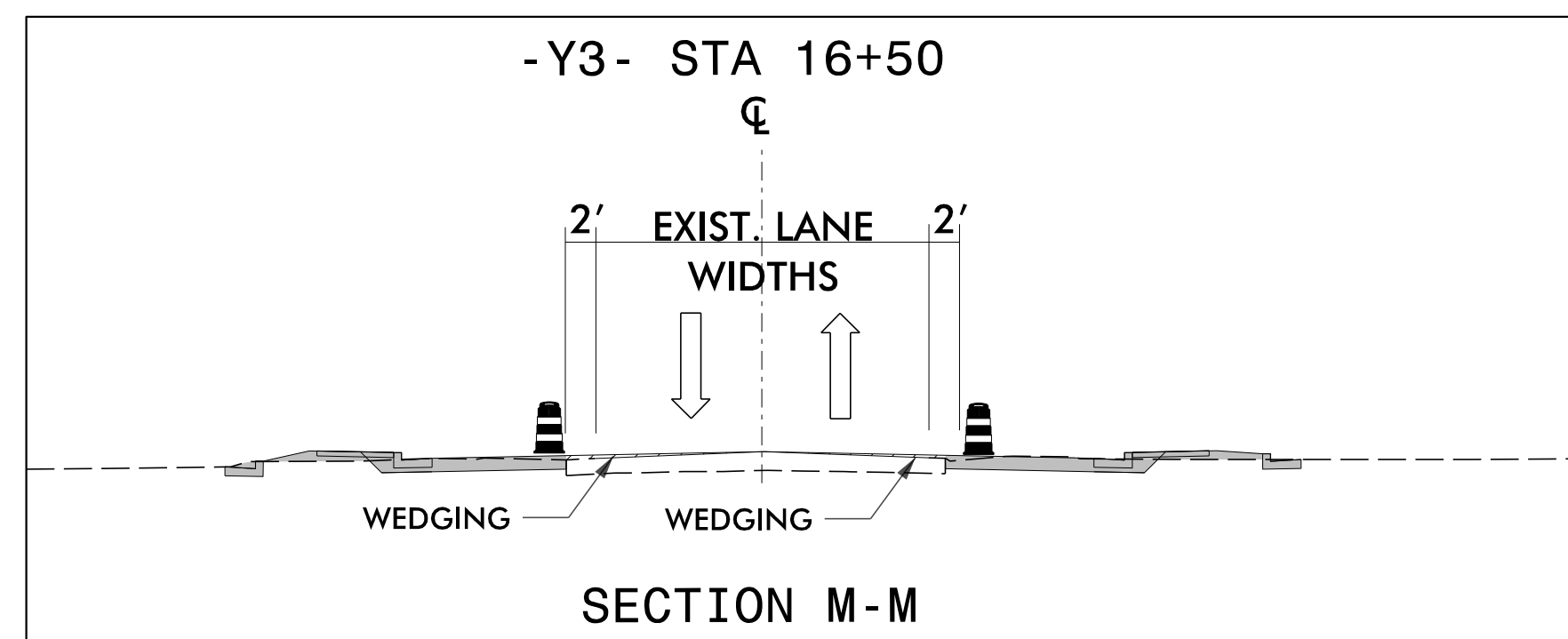
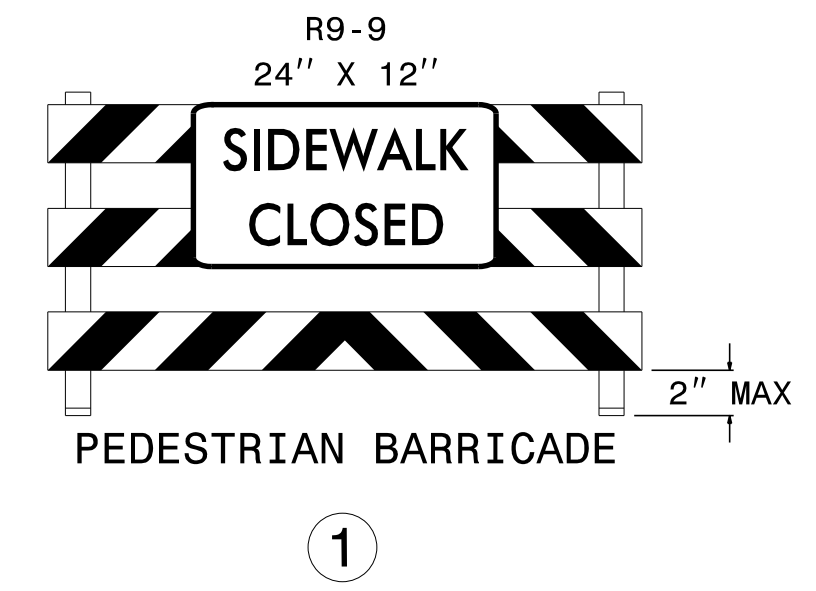
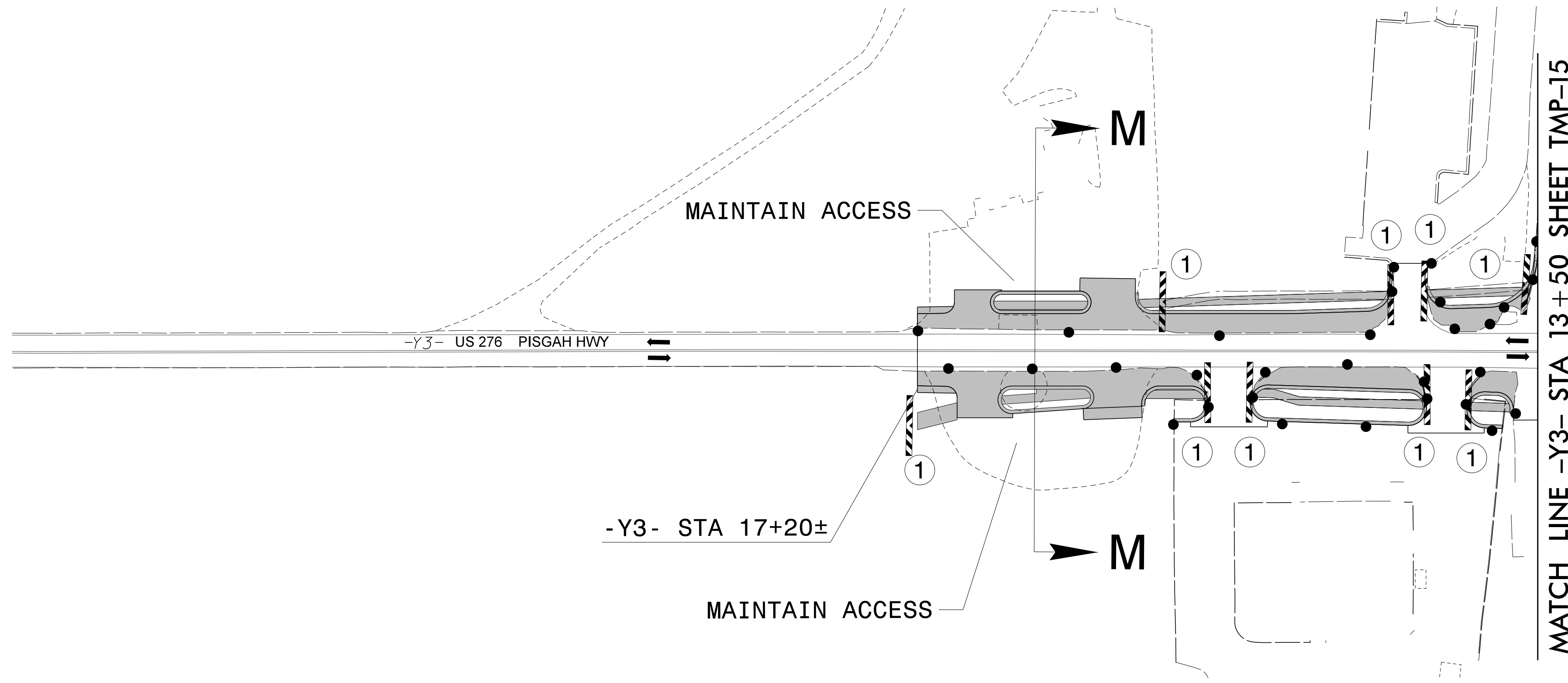
Seal: NORTH CAROLINA PROFESSIONAL ENGINEER SEAL 042357 ALLISON C. DRAKE

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DIVISION OF HIGHWAYS
DEPARTMENT OF TRANSPORTATION
WORK ZONE TRAFFIC CONTROL

**PHASE V
DETAIL**

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NOTE: SHORT TERM LANE CLOSURES MAY BE REQUIRED IN SOME AREAS. REFERENCE RSD. 1101.02 (SHEET 1 OF 14)

NOTE: 10' LANES MAY BE REQUIRED IN SOME AREAS. TO BE DETERMINED BY FIELD ENGINEER.

NOTE: SEE PROPOSED PAVEMENT MARKING PLANS FOR PERMANENT MARKING LOCATIONS AND DETAIL.

RS&H 1520 SOUTH BOULEVARD, SUITE 200
CHARLOTTE, NC 28203
NC FIRM LICENSE No: F-0493

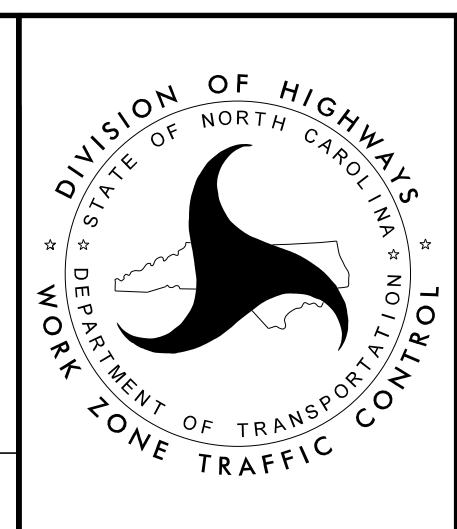
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APPROVED: _____

DATE: 6/15/2023

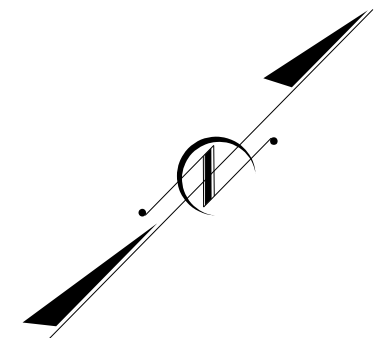
SEAL
042357
ENGINEER
ALLISON C. DRAKE

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UNLESS ALL SIGNATURES COMPLETED**

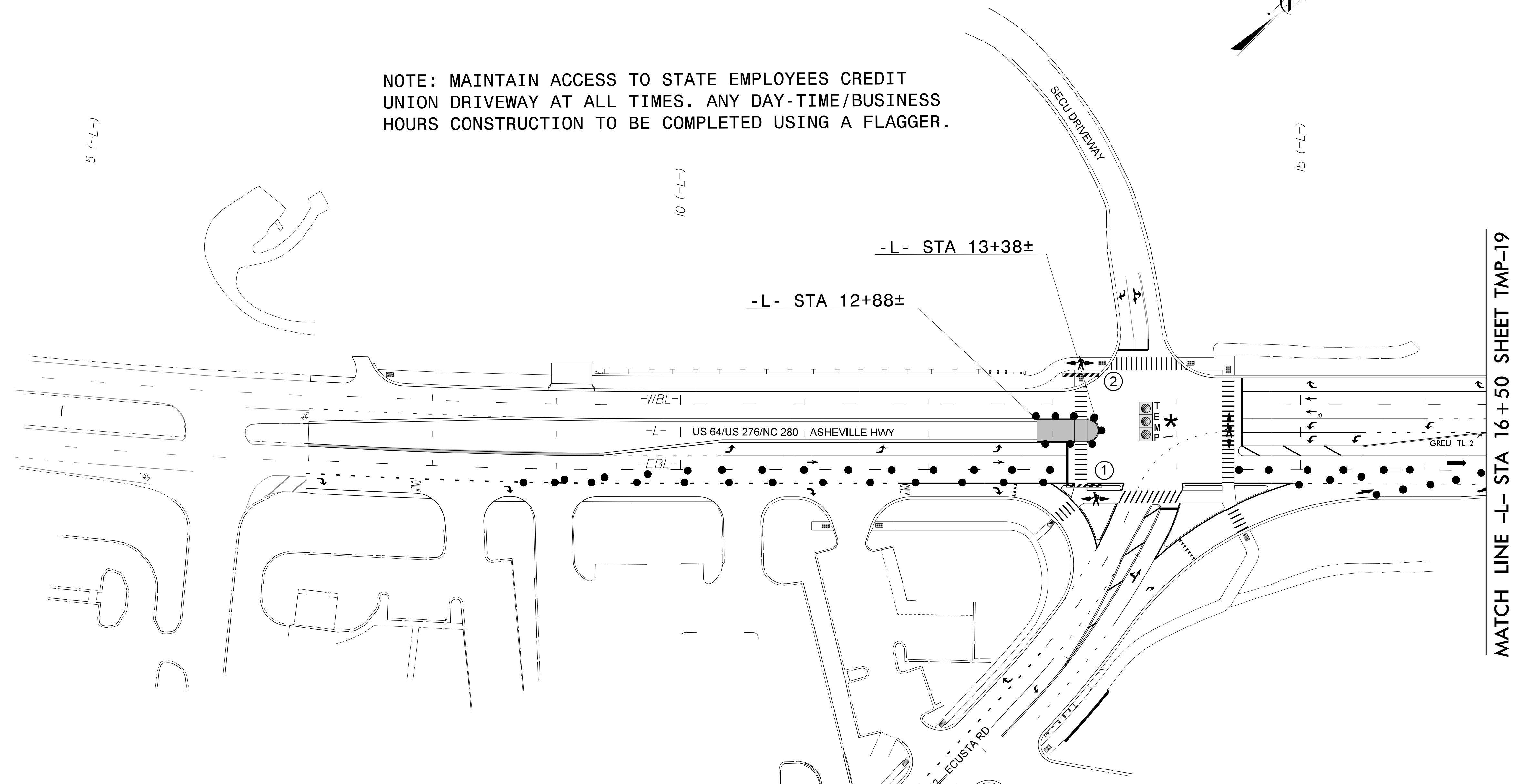


**PHASE V
DETAIL**

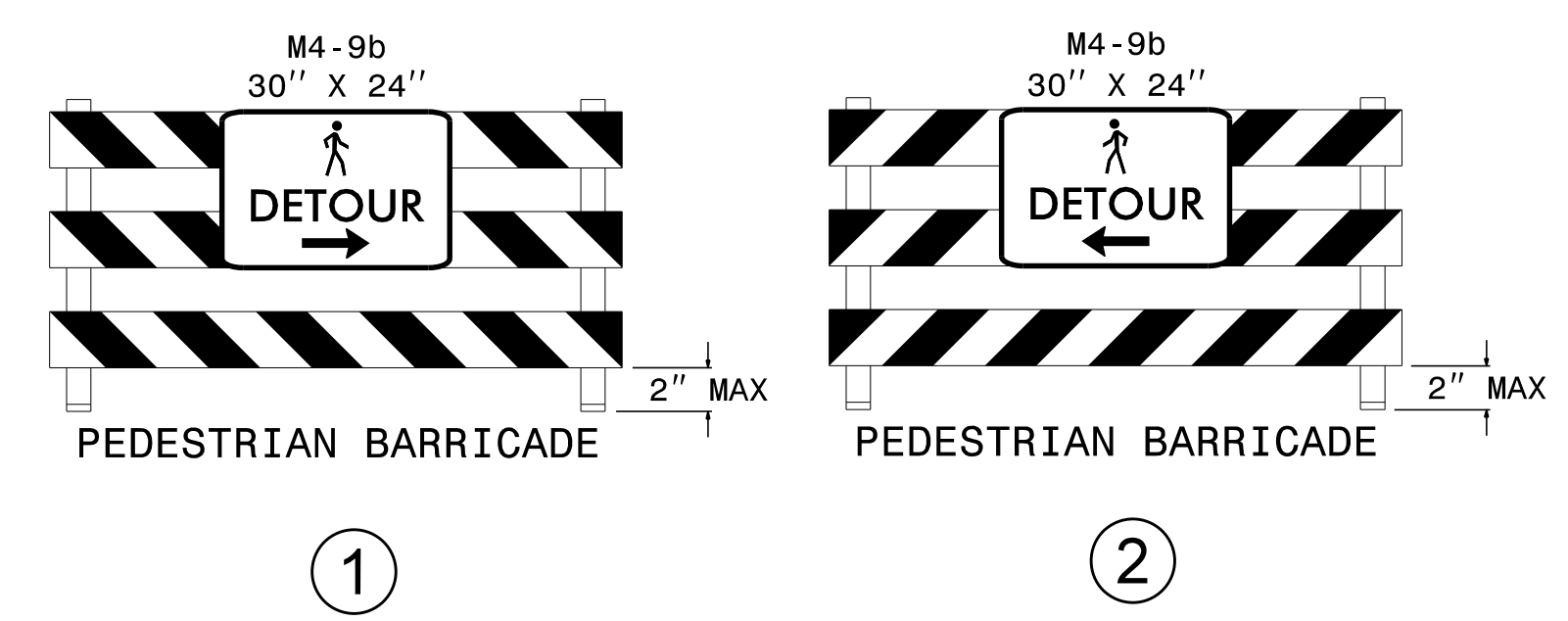
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User:McLaughlin



NOTE: MAINTAIN ACCESS TO STATE EMPLOYEES CREDIT UNION DRIVEWAY AT ALL TIMES. ANY DAY-TIME/BUSINESS HOURS CONSTRUCTION TO BE COMPLETED USING A FLAGGER.



MATCH LINE -L- STA 16+50 SHEET TMP-19



NOTE: SEE PROPOSED PAVEMENT MARKING PLANS FOR PERMANENT MARKING LOCATIONS AND DETAIL.

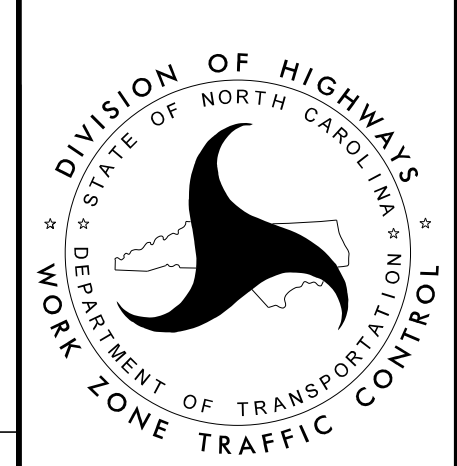
* SEE SIGNAL PLANS



DocuSigned by:
Allison C. Drake
2F889A9CE58442E

APPROVED: _____
DATE: 6/15/2023

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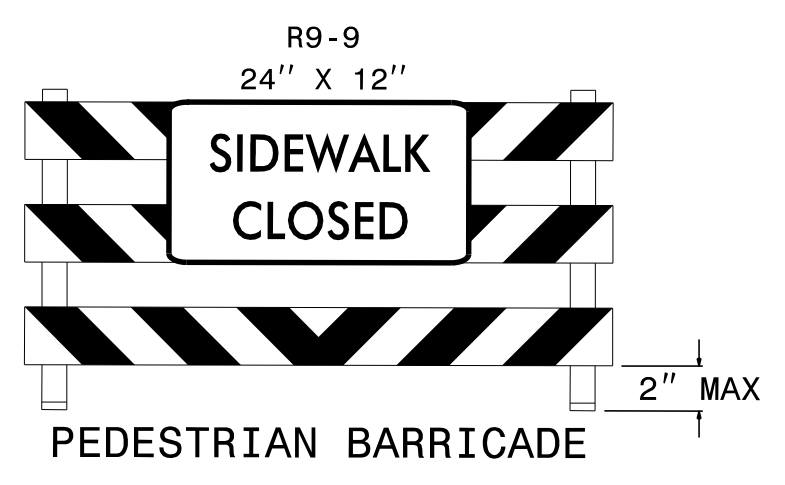
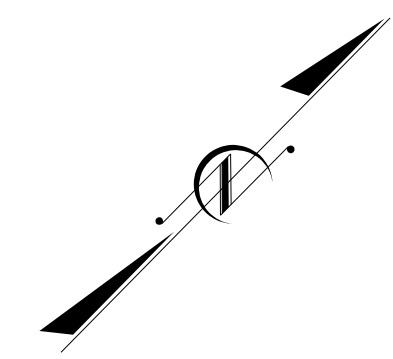
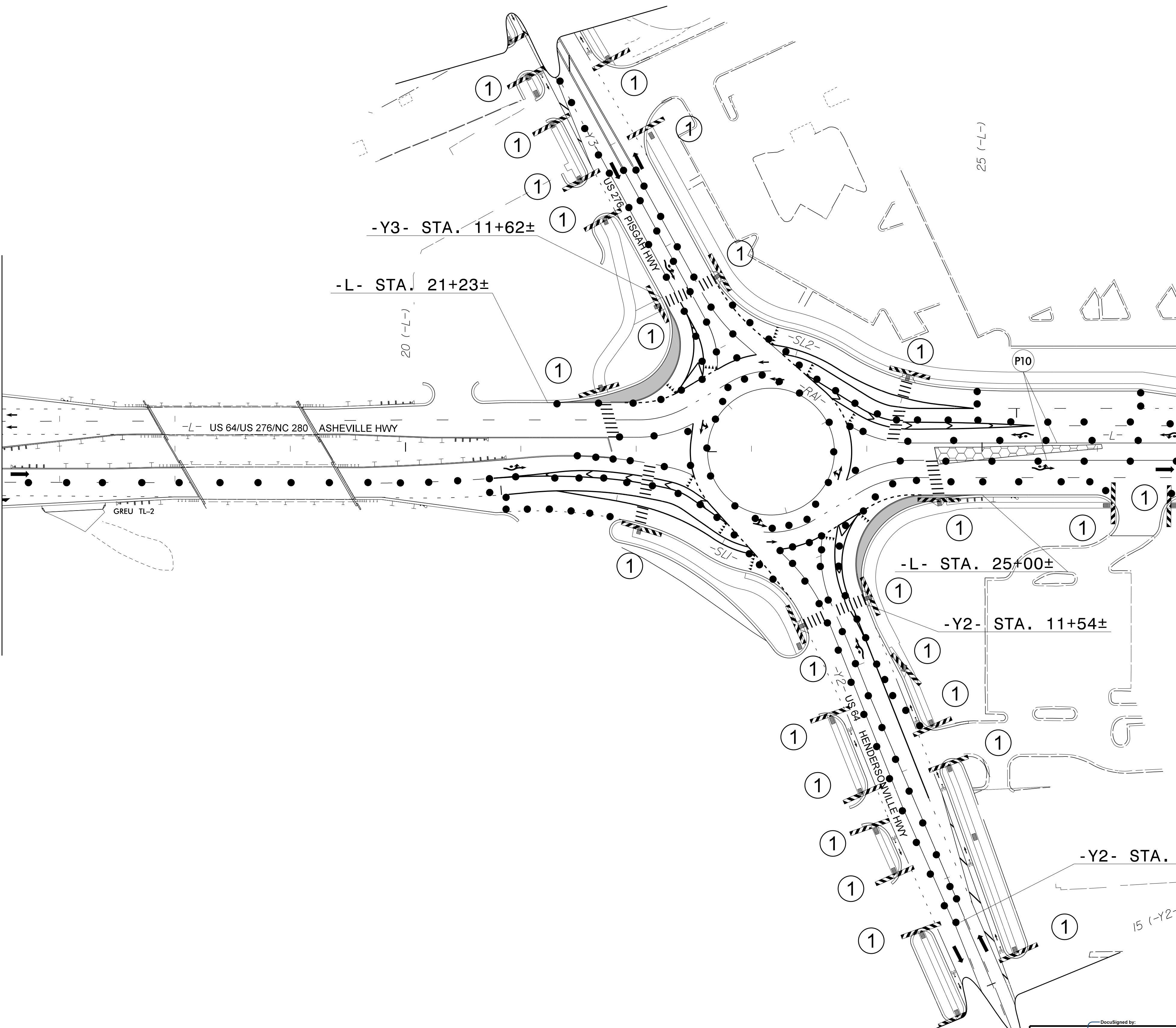


PHASE VI STEP 1
DETAIL

5/5/2023
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User:McLaughlin

MATCH LINE -L- STA 16+50 SHEET TMP-18

MATCH LINE -L- STA 26+75 SHEET TMP-20



NOTE: SEE PROPOSED PAVEMENT MARKING PLANS FOR PERMANENT MARKING LOCATIONS AND DETAIL.

RS&H 1520 SOUTH BOULEVARD, SUITE 200
 CHARLOTTE, NC 28203
 NC FIRM LICENSE No: F-0493

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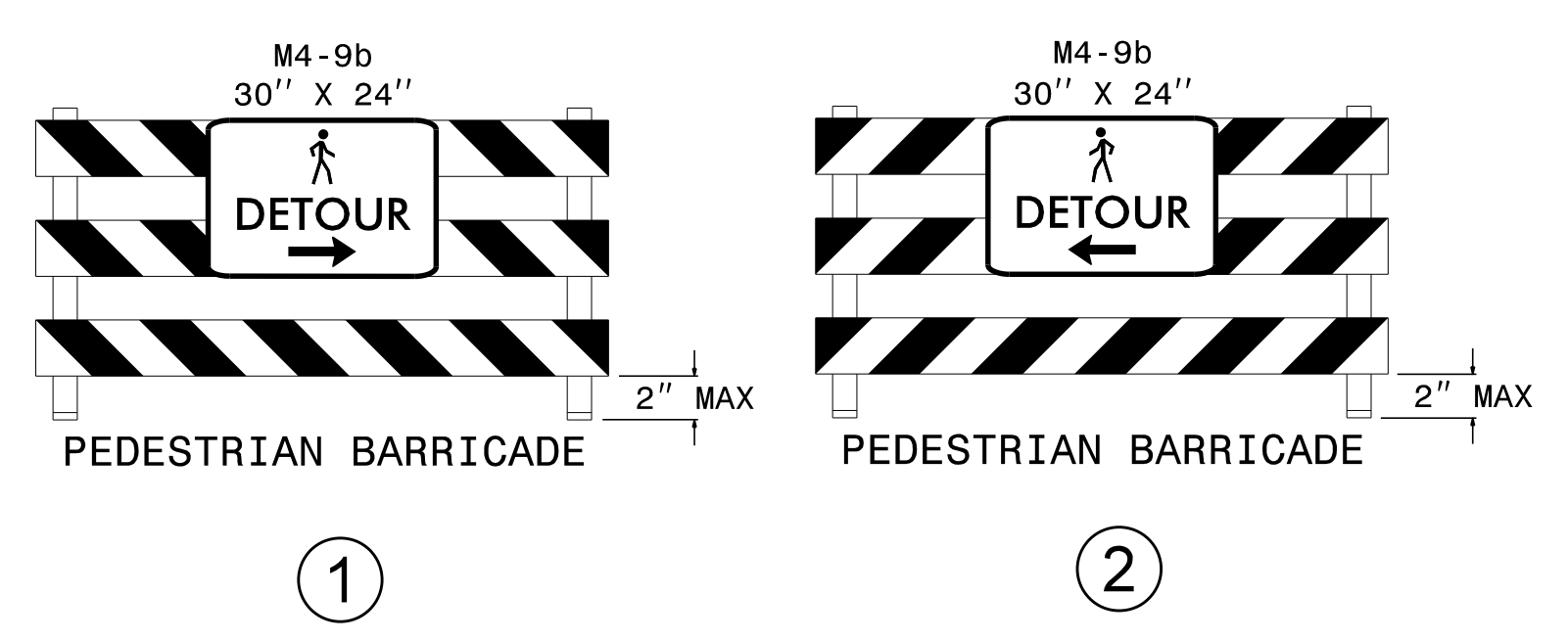
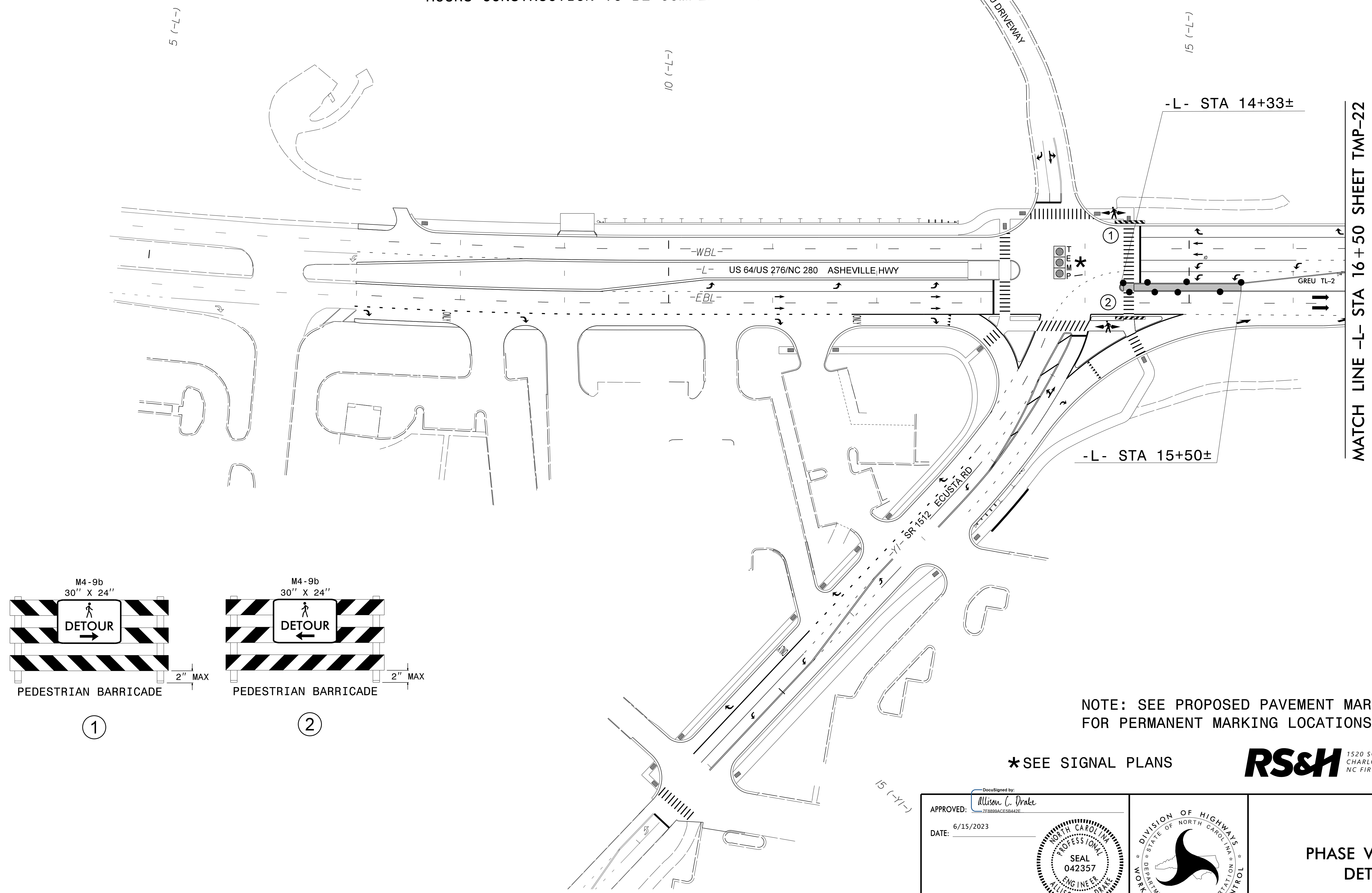
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 APPROVED: 378890ACE6842E
 DATE: 6/15/2023

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**PHASE VI STEP 1
 DETAIL**

NOTE: MAINTAIN ACCESS TO STATE EMPLOYEES CREDIT UNION DRIVEWAY AT ALL TIMES. ANY DAY-TIME/BUSINESS HOURS CONSTRUCTION TO BE COMPLETED USING A FLAGGER.



NOTE: SEE PROPOSED PAVEMENT MARKING PLANS FOR PERMANENT MARKING LOCATIONS AND DETAIL.

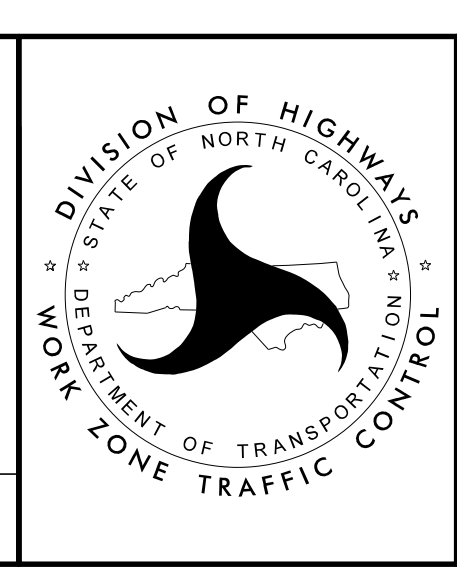
*SEE SIGNAL PLANS

RS&H 1520 SOUTH BOULEVARD, SUITE 200
CHARLOTTE, NC 28203
NC FIRM LICENSE No: F-0493

APPROVED: *Allison C. Drake*
DATE: 6/15/2023

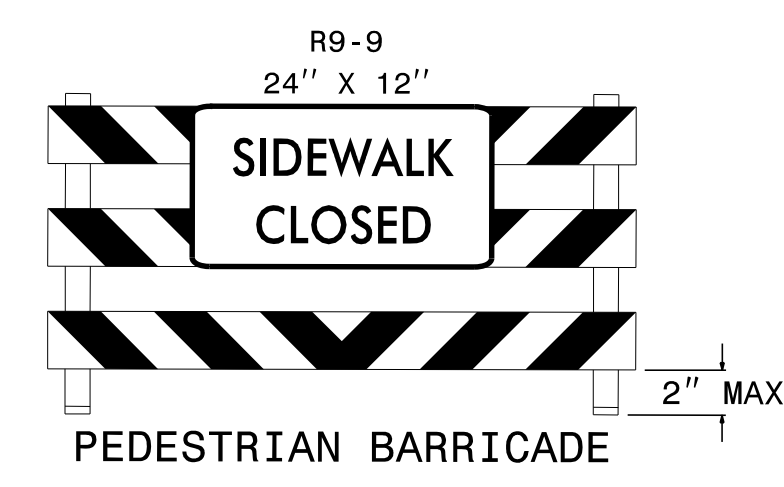
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7E8899ACE58442E

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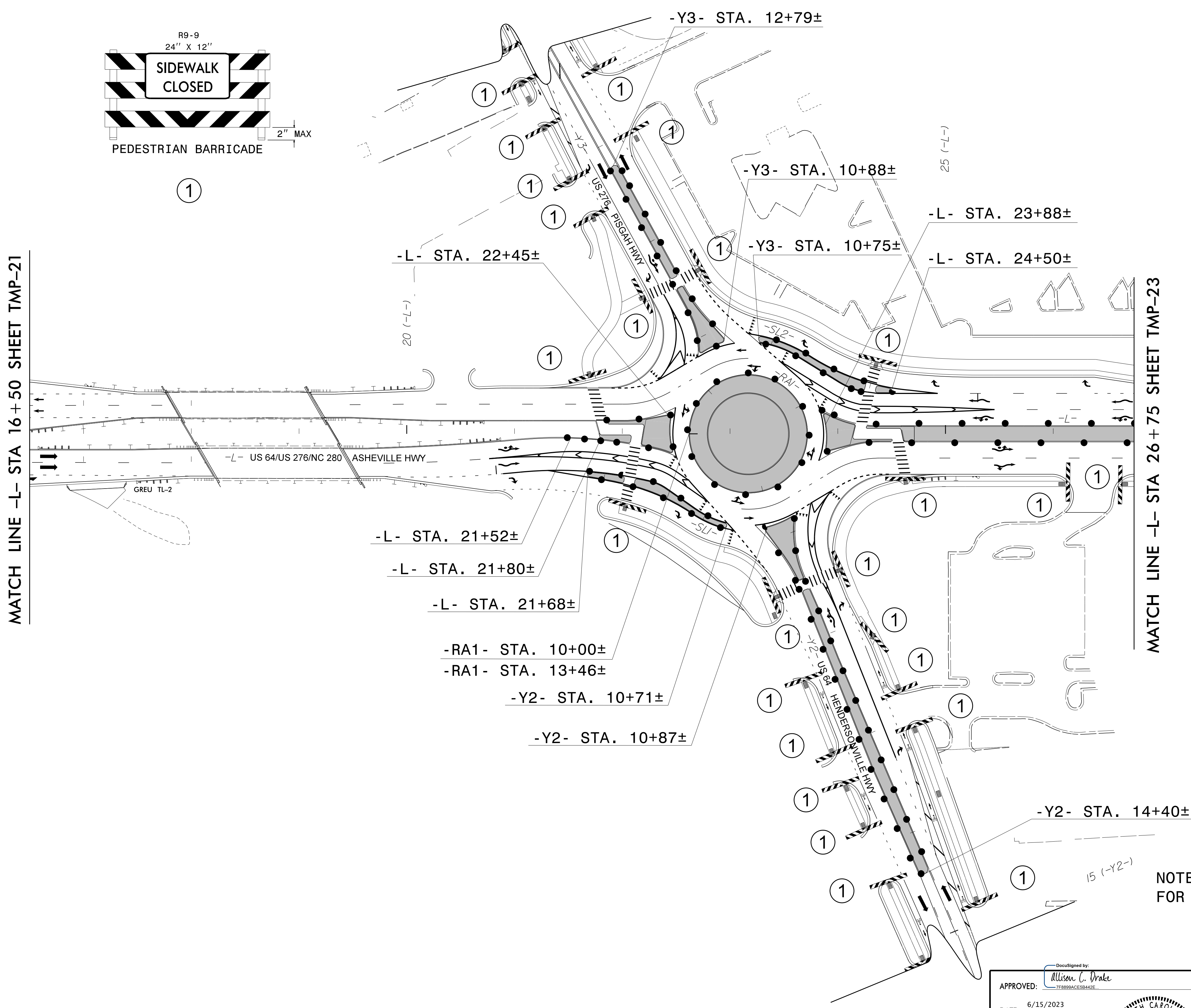
PHASE VI STEP 2
DETAIL

5/5/2023
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 User:McLaughlin



MATCH LINE -L- STA 16+50 SHEET TMP-21

MATCH LINE -L- STA 26+75 SHEET TMP-23



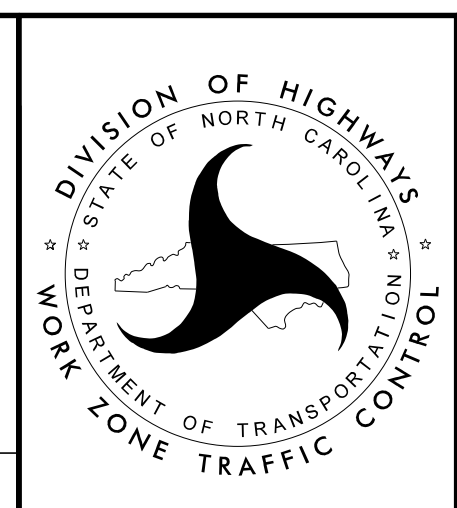
NOTE: SEE PROPOSED PAVEMENT MARKING PLANS FOR PERMANENT MARKING LOCATIONS AND DETAIL.

RS&H 1520 SOUTH BOULEVARD, SUITE 200
 CHARLOTTE, NC 28203
 NC FIRM LICENSE No: F-0493

5/5/2023
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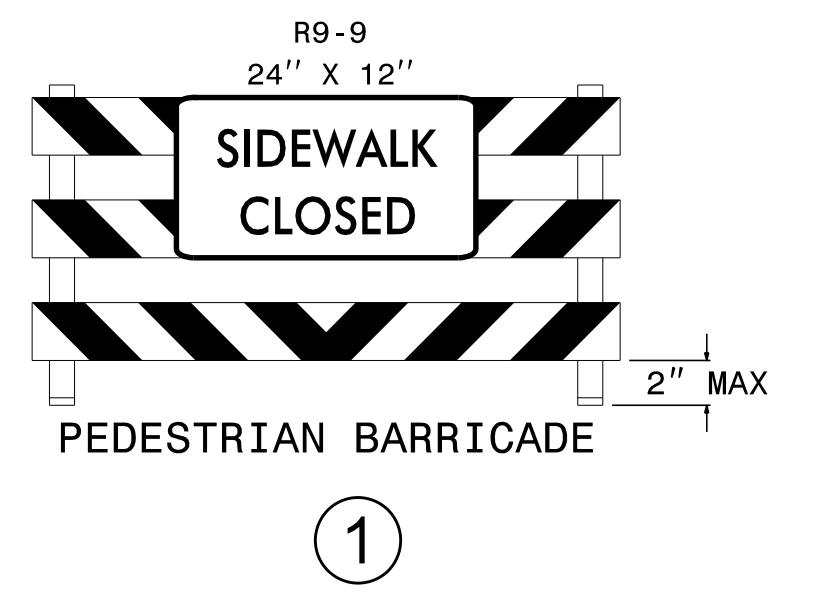
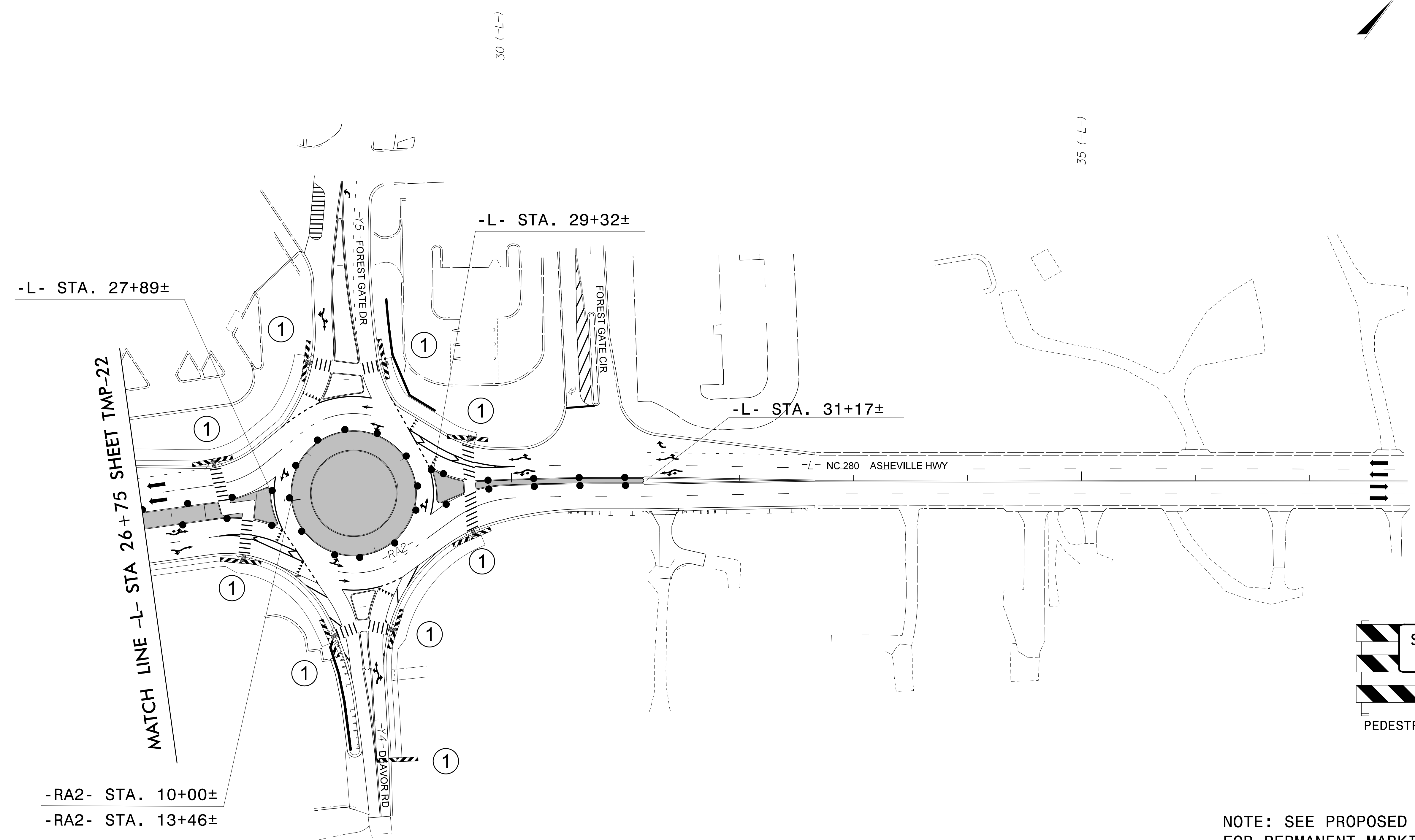
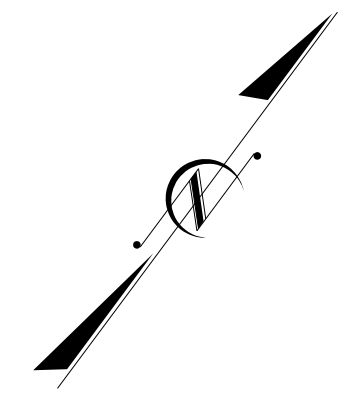
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 APPROVED: 6/15/2023
 DATE: 6/15/2023

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PHASE VI STEP 2
DETAIL

PROJ. REFERENCE NO.	SHEET NO.
R-5799	TMP-23

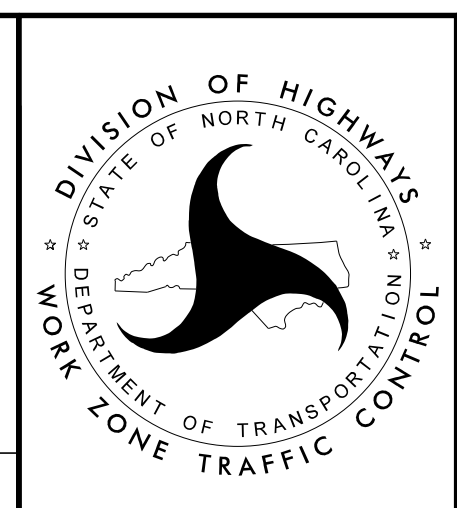


NOTE: SEE PROPOSED PAVEMENT MARKING PLANS FOR PERMANENT MARKING LOCATIONS AND DETAIL.

RS&H 1520 SOUTH BOULEVARD, SUITE 200
CHARLOTTE, NC 28203
NC FIRM LICENSE No: F-0493

APPROVED: *Allison C. Drake*
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**PHASE VI STEP 2
DETAIL**

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